

Energy Harbor Nuclear Corp. Davis-Besse Nuclear Power Station 5501 N. State Route 2 Oak Harbor, Ohio 43449

May 15, 2021

L-21-107 10 CFR 50.36a

ATTN: Document Control Desk U.S. Nuclear Regulatory Commission Washington, DC 20555-0001

SUBJECT:

Davis-Besse Nuclear Power Station, Unit 1
Docket Number 50-346, License Number NPF-3
Combined Annual Radiological Environmental Operating Report and Radiological
Effluent Release Report for the Davis-Besse Nuclear Power Station - 2020

In accordance with 10 CFR 50.36a(a)(2), this letter transmits the combined 2020 Annual Radiological Environmental Operating Report (AREOR) and Radiological Effluent Release Report (RERR) for the period January 2020 through December 2020 (Enclosure A). These annual reports are submitted for the Davis-Besse Nuclear Power Station (DBNPS). The AREOR and the RERR must be submitted by May 15 of each year to satisfy the requirements of the DBNPS Technical Specifications 5.6.1 and 5.6.2.

The Attachment provides a listing of the specific requirements detailed in the DBNPS Offsite Dose Calculation Manual (ODCM) and the portion of the AREOR which was prepared to meet each requirement.

The following information is also provided only to the Document Control Desk. This information includes the following Enclosures:

- Enclosure B: 2020 Radiological Effluent Release Report (RERR) Meteorological Data
- Enclosure C: Environmental, Inc. Midwest Laboratory, Monthly Progress Report for January through December 2020 which contains the 2020 Radiological Environmental Monitoring Program Sample Analysis Results
- Enclosure D: Davis-Besse Offsite Dose Calculation Manual, Revision 38

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There are no regulatory commitments contained in this letter. If there are any questions or if additional information is required, please contact Mr. Gil A. Nordlund, Manager, Radiation Protection and Chemistry, at (419) 321-7219.

Sincerely,

Douglas B. Huey

General Plant Manager, Nuclear Davis-Besse Nuclear Power Station

gmw/aaa

Attachment: Summary Location(s) of Off-Site Dose Calculation Manual Requirements

Contents in the Annual Radiological Environmental Operating Report

Enclosure A: Annual Radiological Environmental Operating Report, including the Radiological Effluent Release Report for the Davis-Besse Nuclear Power Station – 2020

Enclosure B: Enclosure B: 2020 Radiological Effluent Release Report (RERR)

Meteorological Data for the Davis-Besse Nuclear Power Station

Enclosure C: Environmental, Inc. Midwest Laboratory, Monthly Progress Report for January through December 2020 which contains the 2020 Radiological Environmental Monitoring Program Sample Analysis Results

Enclosure D: Davis-Besse Offsite Dose Calculation Manual, Revision 38

cc: Regional Administrator, NRC Region III
DB-1 NRC Senior Resident Inspector
DB-1 NRC/NRR Project Manager
Branch Chief, Division of Reactor Projects, Branch 2
Utility Radiological Safety Board

L-21-107 Attachment Page 1 of 1

Summary Location(s) of Off-Site Dose Calculation Manual Requirements Contents in the Annual Radiological Environmental Operating Report

<u>Description of Requirement</u>

- Summaries, interpretations, and analyses of trends of the radiological environmental surveillance activities, and an assessment of the observed impacts of the plant (pages 28 through 73 and Appendix C)
- Results of the Land Use Census (pages 103 through 108)
- Results of the analysis of radiological environmental samples and of environmental radiation measurements (Environmental, Inc. Midwest Laboratory, Monthly Progress Report for January through December 2020 (pages 26 through 73)
- Summary description of the radiological environmental monitoring program (also pages 26 through 73)
- At least two legible maps, covering sampling locations keyed to a table giving distances and directions from the centerline of one reactor (pages 40 through 70)
- The results of licensee participation in the Inter-Laboratory Comparison Program (Appendix A)
- Discussion of cases in which collection of specimens had irregularities due to malfunction of automatic sampling equipment and other legitimate reasons (page 36)

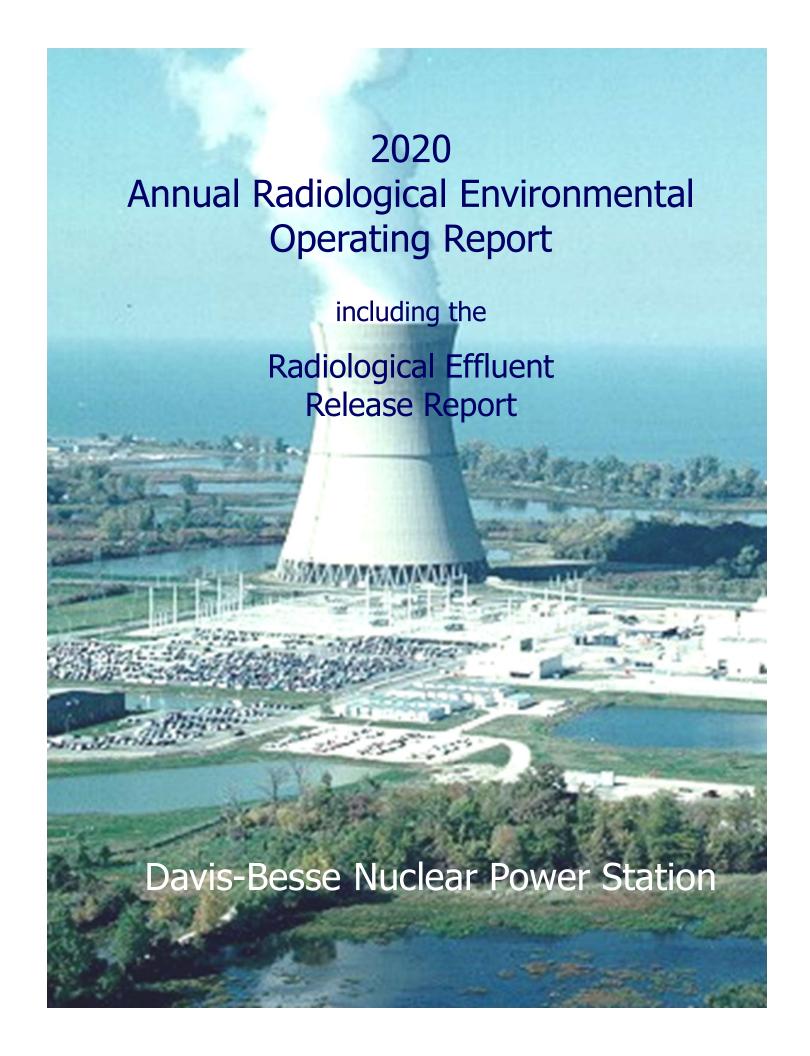
L-21-107 Enclosure A

Annual Radiological Environmental Operating Report, including the Radiological Effluent Release Report

for the

Davis-Besse Nuclear Power Station – 2020

(1 Report follows)



ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

Davis-Besse Nuclear Power Station January 1, 2020 through December 31, 2020

Davis-Besse Nuclear Power Station

May 2021

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Executive Summary

The Annual Radiological Environmental Operating Report (AREOR) is a detailed report on the Environmental Monitoring Programs conducted at the Davis-Besse Nuclear Power Station (Davis-Besse) from January 1 through December 31, 2020. This report meets the requirements in NRC Regulatory Guide 4.8, Section 5.6 of Davis-Besse Technical Specifications, and Davis-Besse Offsite Dose Calculation Manual (ODCM) Section 7.1. Reports included are the Radiological Environmental Monitoring Program, Radiological Effluents Release Report, Land Use Census, Groundwater Monitoring, and the Non-Radiological Environmental Programs, which consist of Meteorological Monitoring, Land and Wetland Management, Water Treatment, Chemical Waste Management, and Waste Minimization and Recycling.

Radiological Environmental Monitoring Program

The Radiological Environmental Monitoring Program (REMP) is established to monitor the radiological condition of the environment around Davis-Besse. The REMP is conducted in accordance with NRC Regulatory Guide 4.8, Davis-Besse Technical Specifications, and the Davis-Besse ODCM, Section 6.0. This program includes the sampling and analysis of environmental samples and evaluation of the effects of releases of radioactivity on the environment.

Radiation levels and radioactivity have been monitored within a 25-mile radius around Davis-Besse since 1972. The REMP was established at Davis-Besse approximately five years before the Station became operational. This pre-operational sampling and analysis program provided data on radiation and radioactivity normally present in the area as natural background. Davis-Besse has continued to monitor the environment by sampling air, groundwater, milk, vegetables, drinking water, surface water, fish, shoreline sediment, and by direct measurement of radiation.

Samples are collected from Indicator and Control locations. Indicator locations are within 5 miles of the site and are expected to show naturally occurring radioactivity plus any increases of radioactivity that might occur due to the operation of Davis-Besse. Control locations are farther away from the Station and are expected to indicate the presence of only naturally occurring radioactivity. The results obtained from the samples collected from Indicator locations are compared with the results from those collected from Control locations and with the concentrations present in the environment before Davis-Besse became operational. This allows for the assessment of any impact the operation of Davis-Besse might have had on the surrounding environment.

Approximately 1,200 radiological environmental samples were collected and analyzed in 2020. There were ten missed air samples due to severe weather, no power due to construction projects, sample pump performance issues, and Covid-19 closures. There was also one lost Indicator TLD during the first quarter. In all incidents referenced above, other REMP samples were available, collected, and analyzed to ensure ODCM Table 6-1 requirements were met.

The results of the REMP indicate that Davis-Besse continues to be operated safely in accordance with applicable federal regulations. No significant increase above background radiation or radioactivity is attributed to the operation of Davis-Besse.

The sampling results are divided into four sections: atmospheric monitoring, terrestrial monitoring, aquatic monitoring and direct radiation monitoring.

Air samples are continuously collected at nine locations. Four samples are collected onsite. The

other five are located between one and twenty-one miles away. Particulate filters and iodine cartridges are collected weekly. The 2020 Indicator results were in close agreement with the samples collected at Control locations.

Terrestrial monitoring includes analysis of milk (Control only), groundwater (Control only), and vegetables. Samples are collected onsite and up to twenty-five miles away, depending on the type of sample. Results of terrestrial sample analyses indicate concentrations of radioactivity similar to previous years and indicate no build-up of radioactivity due to the operation of Davis-Besse.

Aquatic monitoring includes the collection and analysis of drinking water (Treated Surface Water), Untreated Surface Water, fish and shoreline sediments collected onsite and in the vicinity of Lake Erie. In 2020, no tritium was detected in Untreated Water or Treated Water samples with the detection limit of 330 pCi/l. The Environmental Protection Agency drinking water limit is 20,000 pCi/l.

The 2020 results of analysis for fish, treated surface water and shoreline sediment indicate normal background concentration of radionuclides and show no increase or build-up of radioactivity due to the operation of Davis-Besse.

Direct radiation averaged 14.4 mrem/91 days at Indicator locations and 15.2 mrem/91 days at Control locations, which is similar to results from previous years. Quarterly and annual gamma TLD dose rates for 2020 were evaluated using the methodologies presented in ANSI/HPS N13.37-2014 (R2019), "Environmental Dosimetry – Criteria for System Design and Implementation," and U.S. NRC Regulatory Guide 4.13, Revision 2, "Environmental Dosimetry – Performance Specifications, Testing, and Data Analysis. The evaluation of Facility Related Dose at each TLD location determined that all quarterly and annual doses were considered "non-detectable". No increase above natural background radiation attributable to Davis-Besse was observed in 2020.

The operation of Davis-Besse in 2020 caused no significant increase in the concentrations of radionuclides or adverse effects on the quality of the environment surrounding the plant. Radioactivity released in the Station's effluents was well below the applicable federal regulatory limits. The estimated radiation dose to the general public due to the operation of Davis-Besse in 2020 was well below all applicable regulatory limits.

In order to estimate radiation dose to the public, the pathways through which public exposure can occur must be known. To identify these exposure pathways, an Annual Land Use Census is performed as part of the REMP. During the census, Station personnel travel every public road within a radius of five miles of Davis-Besse to locate radiological exposure pathways (e.g., residences, vegetable gardens, milk cows/goats, etc.). The most important pathway is the one that, for a specific radionuclide, provides the greatest dose to a sector of the population. This is called the critical pathway. The critical pathway for 2020 was a garden in the West sector 0.97 miles from Davis-Besse, which has not changed from 2019.

Radiological Effluent Release Report

The Radiological Effluent Release Report (RERR) is a detailed listing of radioactivity released from the Davis-Besse Nuclear Power Station during the period January 1 through December 31, 2020. The doses due to radioactivity released during this period were only a fraction of allowable per our operating license.

The Total Body doses to an individual and population in an unrestricted area due to direct radiation from Davis-Besse is not distinguishable from background. These doses represent an extremely small fraction of the limits set by the NRC or the limits set in the ODCM.

Unplanned Releases

There were no unplanned releases of liquid or gaseous radioactivity from Davis-Besse during 2020.

Changes to the Offsite Dose Calculation Manual (ODCM) and the Process Control Program (PCP)

There was one revision to the ODCM in 2020. Changes included incorporating results of the 2020 Land Use Census and updating sample locations. Also, the company name was updated to "Energy Harbor Nuclear Corporation".

There were no revisions of the PCP during 2020.

Groundwater Protection Initiative (NEI 07-07)

Davis-Besse began sampling wells near the plant in 2007 as part of an industry-wide Groundwater Protection Initiative (GPI), which was established to ensure that there are no inadvertent releases of radioactivity from the plant which could affect offsite groundwater supplies. In addition to several existing pre-construction era wells, sixteen new GPI monitoring wells were installed in 2007 to accomplish the monitoring required. These wells are not used for drinking water purposes and are typically sampled in spring and fall of each year.

Groundwater wells were sampled twice in 2020 (spring and fall). Tritium was less than 2,000 pCi/L in all 43 samples collected, which is the threshold for making courtesy informational notifications to local, county and state officials. Overall site groundwater flows in a west to east direction and discharges to the Intake Canal. Potential leaks or spills of licensed material originating from DBNPS would be captured by pumping water from the Intake Canal back into the station as part of normal plant operations.

All assumptions regarding groundwater flow and modeling remain valid that the flow does not impact areas outside the Owner Controlled Area and essentially discharges into the Intake Canal.

Independent Spent Fuel Storage Installation (ISFSI)

The Davis-Besse (DB) Independent Spent Fuel Storage Installation (ISFSI) provides for dry storage of irradiated spent fuel assemblies in a stainless-steel Dry Shielded Canister (DSC) located within concrete Horizontal Storage Modules (HSM). Groundwater wells associated with the ISFSI are sampled for the Aging Management Program (AMP) and are not part of the Groundwater Well Monitoring Program. The dose from airborne effluents and the direct "shine" from the Independent Spent Fuel Storage Installation (ISFSI) are considered.

Non-Radiological Environmental Programs

Meteorological Monitoring

The Meteorological Monitoring Program at Davis-Besse is part of a program for evaluating the radiological effects of the routine operation of Davis-Besse on the surrounding environment. Meteorological monitoring began in October of 1968.

Meteorological data recorded at Davis-Besse include wind speed, wind direction, sigma theta (standard deviation of wind direction), ambient temperature, differential temperature, dew point and precipitation. Two instrument-equipped meteorological towers are used to collect data.

Data recovery for the five instruments that are operationally required by Davis-Besse Technical Requirements Manual was 99.2% in 2020.

Marsh Management

Energy Harbor owns the Navarre Marsh. It is leased to the U.S. Fish and Wildlife Service, who manage it as part of the Ottawa National Wildlife Refuge.

Water and Wastewater Treatment

Davis-Besse withdraws water from Lake Erie and processes it through a vendor-supplied water treatment process to produce the high-purity water used in the Station's cooling systems.

Since December 1, 1998, the Carroll Township Water Treatment Plant has provided for domestic water needs at Davis-Besse.

Sewage is treated at the Davis-Besse Wastewater Treatment Plant (WWTP) and its effluent is pumped to a settling basin. Following a retention period, this water is discharged with other Station liquid effluents back to Lake Erie. There were no environmental exceedances of the National Pollutant Discharge Elimination System (NPDES) permit in 2020.

Chemical Waste Management

The Chemical Waste Management Program at Davis-Besse was developed to ensure that the offsite disposal of non-radioactive hazardous and nonhazardous chemical wastes is performed in accordance with all applicable state and federal regulations. Chemical waste disposal vendors contracted by Davis-Besse use advanced technology for offsite disposal, including recycling of chemical wastes, in order to protect human health and the environment. In 2020, the Davis-Besse Nuclear Power Station generated approximately 1,709 pounds of hazardous waste. Non-hazardous wastes generated include 93,437 gallons (greater than previous years due to TPCW cleanup) of used oil and 10,109 pounds of materials such as oil filters, resins, caulk, latex paints, and grout. As required by Superfund Amendment and Reauthorization Act (SARA), Davis-Besse reported hazardous products and chemicals to local fire departments and local and state planning commissions. As part of the program to remove PCB fluid from Davis-Besse, all electrical transformers have been retro-filled and reclassified as non-PCB transformers.

Appendices

Appendix A includes results from the Inter-laboratory Comparison Program required by the Davis-Besse ODCM. Samples with known concentrations of radioisotopes are prepared by the Environmental Resources Associates (ERA), and then sent (with information on sample type and date of collection only) to the laboratory contracted by Davis-Besse to analyze its REMP samples. The Environmental Resources Associates (ERA) compares results to known standards.

Appendix B contains data reporting conversions used in the REMP at Davis-Besse. The appendix provides an explanation of the format and computational methods used in reporting REMP data. Information on counting uncertainties and the calculations of averages and standard deviations are also provided.

Appendix C provides a REMP sampling summary from 2020. The appendix provides a listing of the following for each sample type:

- number and type of analysis performed
- lower limit of detection for each analysis (LLD)
- mean and range of results for Control and Indicator locations
- mean, range, and description of location with highest annual mean
- number of non-routine results

For detailed studies, Appendix C provides more specific information than that listed in this report. The information presented in Appendices A through C was provided by Environmental, Inc. Midwest Laboratory in their Final Progress Report to Davis-Besse (February 6, 2021).

Introduction

Nuclear power provides a clean and readily available source of energy. The operation of nuclear power stations has a very small impact on the environment. In fact, the Davis-Besse Nuclear Power Station is surrounded by hundreds of acres of marshland, which make up part of the Ottawa National Wildlife Refuge. In order to provide better understanding of this unique source of energy, background information on basic radiation characteristics, risk assessment, reactor operation and effluent control is provided in this section.

Fundamentals

The Atom

All matter consists of atoms. Simply described, atoms are made up of positively and negatively charged particles, and particles which are neutral. These particles are called protons, electrons, and neutrons, respectively (Figure 1). The relatively large protons and neutrons are packed tightly together in a cluster at the center of the atom called the nucleus. Orbiting around the nucleus are one or more smaller electrons. In an electrically neutral atom the negative charges of the electrons are balanced by the positive charges of the protons. Due to their dissimilar charges, the protons and electrons have a strong attraction for each other. This holds the atom together. Other attractive forces between the protons and neutrons keep the densely packed protons from repelling each other, and prevent the nucleus from breaking apart.

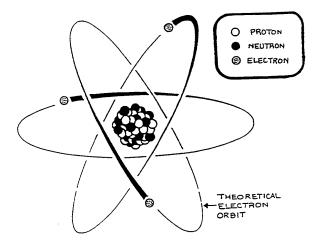


Figure 1: An atom consists of two parts: a nucleus containing positively charged protons and electrically neutral neutrons and one or more negatively charged electrons orbiting the nucleus. Protons and neutrons are nearly identical in size and weight, while each is about 2000 times heavier than an electron.

Radiation and Radioactivity

Isotopes and Radionuclides

A group of identical atoms containing the same number of protons make up an **element.** In fact, the number of protons an atom contains determines its chemical identity. For instance, all atoms with one proton are hydrogen atoms, and all atoms with eight protons are oxygen atoms. However, the number of neutrons in the nucleus of an element may vary. Atoms with the same number of protons but different numbers of neutrons are called **isotopes.** Different isotopes of the same element have the same chemical properties, and many are stable or nonradioactive. An unstable or radioactive isotope of an element is called a **radioisotope**, **a radioactive atom**, **or a radionuclide**. Radionuclides usually contain an excess amount of energy in the nucleus. The excess energy is usually due to a surplus or deficit in the number of neutrons in the nucleus. Radionuclides such as Uranium-238, Berylium-7 and Potassium-40 occur naturally. Others are man-made, such as Iodine-131, Cesium-137, and Cobalt-60.

Radiation

Radiation is simply the conveyance of energy through space. For instance, heat emanating from a stove is a form of radiation, as are light rays, microwaves, and radio waves. Ionizing radiation is another type of radiation and has similar properties to those of the examples listed above. Ionizing radiation consists of both electromagnetic radiation and particulate radiation. Electromagnetic radiation is energy with no measurable mass that travels with a wave-like motion through space. Included in this category are gamma rays and X-rays. Particulate radiation consists of tiny, fast moving particles which, if unhindered, travel in a straight line through space. The three types of particulate radiation of concern to us are alpha particles, which are made up of 2 protons and 2 neutrons; beta particles, which are essentially free electrons; and neutrons. The properties of these types of radiation will be described more fully in the Range and Shielding section.

Radioactive Decay

Radioactive atoms, over time, will reach a stable, non-radioactive state through a process known as **radioactive decay**. Radioactive decay is the release of energy from an atom through the emission of ionizing radiation. Radioactive atoms may decay directly to a stable state or may go through a series of decay stages, called a **radioactive decay series**, and produce several **daughter products** that eventually result in a stable atom. The loss of energy and/or matter through radioactive decay may transform the atom into a chemically different element. For example, when Uranium-238 decays, it emits an alpha particle and, as a result, the atom loses 2 protons and 2 neutrons. As discussed previously, the number of protons in the nucleus of an atom determines its chemical identity. Therefore, when the Uranium-238 atom loses the 2 protons and 2 neutrons, it is transformed into an atom of Thorium-234. Thorium-234 is one of the 14 successive daughter products of Uranium-238. Radon is another daughter product, and the series ends with stable Lead-206.

This example is part of a known radioactive decay series, called the Uranium series, which begins with Uranium-238 and ends with Lead-206 (Figure 2).

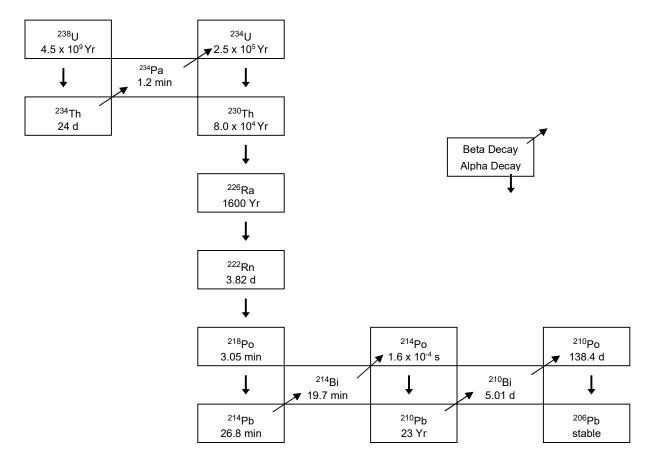


Figure 2: Principal Decay Scheme of the Uranium Series.

Half-life

Most radionuclides vary greatly in the frequency with which their atoms release radiation. Some radioactive materials, in which there are only infrequent emissions, tend to have a very long half-life. Those radioactive materials that are very active, emitting radiation more frequently tend to have comparably shorter half-lives. The length of time an atom remains radioactive is defined in terms of its **half-life**. Half-life is the amount of time required for a radioactive substance to lose half of its activity through the process of radioactive decay. Half-lives vary from millionths of a second to millions of years.

Interaction with Matter

Ionization

Through interactions with atoms, alpha, beta, and gamma radiation lose their energy. When these forms of radiation interact with any form of material, the energy they impart may cause

atoms in that material to become **ions**, or charged particles. Normally, an atom has the same number of protons as electrons. Thus, the positive and negative charges cancel, and the atom is electrically neutral. When one or more electrons are removed an ion is formed. Ionization is one of the processes that may result in damage to biological systems.

Range and Shielding

Particulate and electromagnetic radiation each travel through matter differently because of their different properties. Alpha particles contain 2 protons and 2 neutrons, are relatively large, and carry an electrical charge of +2. Alpha particles are ejected from the nucleus of a radioactive atom at speeds ranging from 2,000 to 20,000 miles per second. However, due to its comparatively large size, an alpha particle usually does not travel very far before it loses most of its energy through collisions and interactions with other atoms. As a result, a sheet of paper or a few centimeters of air can easily stop alpha particles (Figure 3).

Beta particles are very small, and comparatively fast particles, traveling at speeds near the speed of light (186,000 miles per second). Beta particles have an electrical charge of either +1 or -1. Because they are so small and have a low charge, they do not collide and interact as often as alpha particles, so they can travel farther. Beta particles can usually travel through several meters of air, but may be stopped by a thin piece of metal or wood.

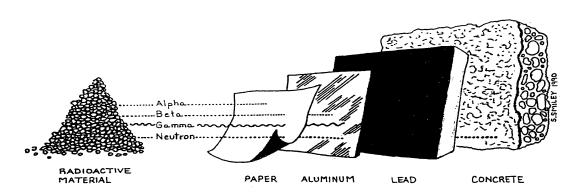


Figure 3: As radiation travels, it collides and interacts with other atoms and loses energy. Alpha particles can be stopped by a sheet of paper, and beta particles by a thin sheet of aluminum. Gamma radiation is shielded by highly dense materials such as lead, while hydrogenous materials (those containing hydrogen atoms), such as water and concrete, are used to stop neutrons.

Gamma rays are pure energy and travel at the speed of light. They have no measurable charge or mass, and generally travel much farther than alpha or beta particles before being absorbed. After repeated interactions, the gamma ray finally loses all of its energy and vanishes. The range of a gamma ray in air varies, depending on the ray's energy and interactions. Very high-energy gamma radiation can travel a considerable distance, whereas low energy gamma radiation may travel only a few feet in air. Lead is used as shielding material for gamma radiation because of its density. Several inches of Lead or concrete may be needed to effectively shield gamma rays.

Neutrons come from several sources, including the interactions of cosmic radiation with the earth's atmosphere and nuclear reactions within operating nuclear power reactors. However, neutrons are not of environmental concern since the neutron source at nuclear power stations is sealed within the containment building.

Because neutrons have no charge, they are able to pass very close to the nuclei of the material through which they are traveling. As a result, neutrons may be captured by one of these nuclei or they may be deflected. When deflected, the neutron loses some of its energy. After a series of these deflections, the neutron has lost most of its energy. At this point, the neutron moves about as slowly as the atoms of the material through which it is traveling, and is called a **thermal neutron**. In comparison, fast neutrons are much more energetic than thermal neutrons and have greater potential for causing damage to the material through which they travel. Fast neutrons can have from 200 thousand to 200 million times the energy of thermal neutrons.

Neutron shielding is designed to slow fast neutrons and absorb thermal neutrons. Neutron shielding materials commonly used to slow neutrons down are water or polyethylene. The shield is then completed with a material such as Cadmium, to absorb the now thermal neutrons. At Davis-Besse, concrete is used to form an effective neutron shield because it contains water molecules and can be easily molded around odd shapes.

Quantities and Units of Measurement

There are several quantities and units of measurement used to describe radioactivity and its effects. Three terms of particular usefulness are activity, absorbed dose, and dose equivalent.

Activity: Curie

Activity is the number of atoms in a sample that disintegrate (decay) per unit of time. Each time an atom disintegrates, radiation is emitted. The **curie** (Ci) is the unit used to describe the activity of a material and indicates the rate at which the atoms of a radioactive substance are decaying. One curie indicates the disintegration of 37 billion atoms per second.

A curie is a unit of activity, not a quantity of material. Thus, the amount of material required to produce one curie varies. For example, one gram (1/28th of an ounce) of radium-226 is the equivalent of one curie of activity, but it would take 9,170,000 grams (about 10 tons) of thorium-232 to equal one curie.

Smaller units of the curie are often used, especially when discussing the low concentrations of radioactivity detected in environmental samples. For instance, the microcurie (uCi) is equal to one millionth of a curie, while the picocurie (pCi) represents one trillionth of a curie.

Absorbed Dose: Rad

Absorbed dose is a term used to describe the radiation energy absorbed by any material exposed to ionizing radiation, and can be used for both particulate and electromagnetic radiation. The **Rad (radiation absorbed dose)** is the unit used to measure the absorbed dose. It is defined as the energy of ionizing radiation deposited per gram of absorbing material (1 Rad = 100 erg/gm). The rate of absorbed dose is usually given in Rad/hr.

If the biological effect of radiation is directly proportional to the energy deposited by radiation in an organism, the Rad would be a suitable measurement of the biological effect. However, biological effects depend not only on the total energy deposited per gram of tissue, but on how this energy is distributed along its path. Experiments have shown that certain types of radiation are more damaging per unit path of travel than are others. Thus, another unit is needed to quantify the biological damage caused by ionizing radiation.

Dose Equivalent: Rem

Biological damage due to alpha, beta, gamma and neutron radiation may result from the ionization caused by this radiation. Some types of radiation, especially alpha particles which cause dense local ionization, can result in up to 20 times the amount of biological damage for the same energy imparted as do gamma or X-rays. Therefore, a **quality factor** must be applied to account for the different ionizing capabilities of various types of ionizing radiation. When the quality factor is multiplied by the absorbed dose, the result is the **dose equivalent**, which is an estimate of the possible biological damage resulting from exposure to a particular type of ionizing radiation. The dose equivalent is measured in **rem (radiation equivalent man)**.

An example of this conversion from absorbed dose to dose equivalent uses the quality factor for alpha radiation, which is equal to 20. Thus, 1 Rad of alpha radiation is approximately equal to 20 rem. Beta and gamma radiation each have a quality factor of 1, therefore one Rad of either beta or gamma radiation is approximately equal to one rem. Neutrons have a quality factor ranging from 2 to 10. One rem produces the same amount of biological damage, regardless of the source. In terms of radiation, the rem is a relatively large unit. Therefore, a smaller unit, the **millirem**, is often used. One millirem (mrem) is equal to 1/1,000 of a rem.

Deep Dose Equivalent (DDE)

Deep dose equivalent is the measurement of dose within the body, from sources of radiation that are external to the body. It is what is measured and recorded on thermoluminescent dosimeters (TLDs), film badges or other dosimeters. For example, at Davis-Besse or at any hospital that has x-ray equipment, you will see people wearing these devices. These instruments are worn to measure DDE.

Committed Effective Dose Equivalent (CEDE)

Committed effective dose equivalent is a measure of the dose received from any radioactive material taken into the body. It is calculated from the sum of the products of the committed dose equivalent to the organ or tissue multiplied by the organ or tissue-weighting factor. CEDE accounts for all the dose delivered during the entire time the radioactive material is in the body.

Total Effective Dose Equivalent (TEDE)

Total effective dose equivalent is the sum of the deep dose equivalent (for dose from sources external to the body) and the committed effective dose equivalent (for internal dose). Since they are both doses to the body, they are not tracked separately. The NRC limits occupational dose to a radiation worker to five rem (5,000 mrem) TEDE per year.

Sources of Radiation

Background Radiation

Radiation did not begin with the nuclear power industry, and occurs naturally on earth. It is probably the most "natural" thing in nature. Mankind has always lived with radiation and probably always will. In fact, during every second of life, over 7,000 atoms undergo radioactive decay "naturally" in the body of the average adult. In addition, radioactive decay occurs naturally in soil, water, air and space. All these common sources of radiation contribute to the natural background radiation to which we are all exposed.

The earth is being showered by a steady stream of high-energy gamma rays and particulate radiation that come from space known as cosmic radiation. The atmosphere shields us from most of this radiation, but everyone still receives about 20 to 50 mrem each year from this source. The thinner air at higher altitudes provides less protection against cosmic radiation. People living at higher altitudes or flying in an airplane are exposed to even higher levels cosmic radiation. Radionuclides commonly found in the atmosphere as a result of cosmic ray interactions include Beryllium-7, Carbon-14, tritium (H-3), and Sodium-22.

Another common naturally occurring radionuclide is Potassium-40. About one-third of the external and internal dose from naturally occurring background radiation is attributed to this radioactive isotope of potassium.

The major source of background radiation is Radon, a colorless, odorless, radioactive gas that results from the decay of Radium-226, a member of the Uranium-238 decay series. Since Uranium occurs naturally in all soils and rocks, everyone is continuously exposed to Radon and its daughter products. Radon is not considered to pose a health hazard unless it is concentrated in a confined area, such as buildings, basements or underground mines. Radon-related health concerns stem from the exposure of the lungs to this radioactive gas. Radon emits alpha radiation when it decays, which can cause damage to internal tissues when inhaled. As a result, exposure to the lungs is a concern since the only recognized health effect associated with exposure to Radon is an increased risk of lung cancer. This effect has been seen when Radon is present at levels common in uranium mines. According to the Health Physics Society, University of Michigan, more than half of the radiation dose the average American receives is attributed to Radon.

Sources of Radiation Exposure to the US Population

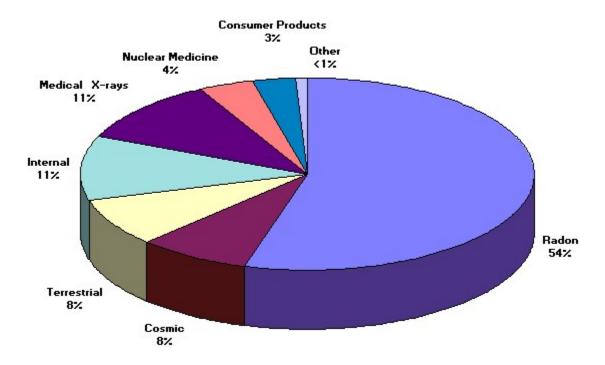


Figure 4: The most significant annual dose received by an individual of the public is that received from naturally occurring radon. A very small annual dose to the public results from producing electricity by nuclear power (taken from the Health Physics Society, University of Michigan, 2013).

Further information on Radon, its measurement, and actions to reduce the Radon concentration in buildings can be obtained by contacting the state Radon program office at the following address:

Ohio Department of Health Bureau of Environmental Health and Radiation Protection Radon Education & Licensing Program 35 Chestnut Street Columbus, Ohio 43215 Telephone: (800) 523-4439

E-mail: indoor.radon@odh.ohio.gov

The approximate average background radiation in the northern Ohio area is 620 mrem/year (Princeton University, 2013).

Man-made Radiation

In addition to naturally occurring cosmic radiation and radiation from naturally occurring radioactivity, people are also exposed to man-made radiation. The largest sources of exposure include medical x-rays and radioactive pharmaceuticals. Small doses are also received from consumer products such as televisions, smoke detectors, and fertilizers. Fallout from nuclear weapons tests is another source of man-made exposure. Fallout radionuclides include Strontium-90, Cesium-137, and tritium. Less than one percent of the annual dose a member of the public receives is a result of having electricity generated by nuclear power.

Health Effects of Radiation

The effects of ionizing radiation on human health have been under study for more than one hundred years. Scientists have obtained valuable knowledge through the study of laboratory animals that were exposed to radiation under extremely controlled conditions. However, it has been difficult to relate the biological effects of irradiated laboratory animals to the potential health effects on humans.

The effects of radiation on humans can be divided into two categories, somatic and genetic. Somatic effects are those which develop in the directly exposed individual, including an unborn child. Genetic effects are those which are observed in the offspring of the exposed individual.

Somatic effects can be divided further into acute and chronic effects. Acute effects develop shortly after exposure to large amount of radiation. Much study has been done with human populations that were exposed to ionizing radiation under various circumstances. These groups include the survivors of the atomic bomb, persons undergoing medical radiation treatment, and early radiologists, who accumulated large doses of radiation, unaware of the potential hazards.

Chronic effects are a result of exposure to radiation over an extended period of time. Examples of such groups are clock dial painters, who ingested large amounts of Radium by "tipping" the paint brushes with their lips, and Uranium miners, who inhaled large amounts of radioactive dust while mining pitchblende (Uranium ore). The studies performed on these groups have increased our knowledge of the health effects from comparatively very large doses of radiation received over long periods of time.

Continuous exposure to low levels of radiation may produce somatic changes over an extended period of time. For example, someone may develop cancer from man-made radiation, background radiation, or some other source not related to radiation. Because all illnesses caused by low level radiation can also be caused by other factors, it is virtually impossible to determine individual health effects of low level radiation. Even though no effects have been observed at doses less than 50 rem, we assume the health effects resulting from low doses of radiation occur proportionally to those observed following large doses of radiation. Most radiation scientists agree that this assumption over-estimates the risks associated with a low-level radiation exposure. The effects predicted in this manner have never been actually observed in any individuals exposed to low level radiation. Therefore, the most likely somatic effect of low level radiation is believed to be a small increased risk of cancer. Genetic effects could occur as a result of ionizing radiation interacting with the genes in the human cells. Radiation (as well as common chemicals) can cause physical changes or mutations in the genes. Chromosome fibers can break and rearrange, causing interference with the normal cell division of the chromosome by affecting their number and structure. A cell is able to rejoin the ends of a broken chromosome, but if there are two breaks close enough together in space and time, the broken ends from one break could join incorrectly with those from another. This could cause translocations, inversions, rings, and other types of structural rearrangements. When this happens, new mutated genes are created. Radiation is not the only mechanism by which such changes can occur. Spontaneous mutations and chemically induced mutations also have been observed. These mutated genes may be passed

from parent to offspring. Viable mutations due to low level, low dose radiation have not been observed in humans.

Health Risks

While people may accept the risks inherent in their personal activities, such as smoking and driving to work each day, they are less inclined to accept the risk inherent in producing electricity. As with any industrial environment, it is not possible to guarantee a risk-free environment. Thus, attention should be focused on taking steps to safeguard the public, on developing a realistic assessment of the risks, and on placing these risks in perspective. The perceptions of risk associated with exposure to radiation may have the greatest misunderstanding. Because people do not understand ionizing radiation and its associated risks, many fear it. This fear is compounded by the fact that we cannot hear, smell, taste or feel ionizing radiation.

We do not fear other potentially hazardous things for which we have the same lack of sensory perception, such as radio waves, carbon monoxide, and small concentrations of numerous cancer-causing substances. These risks are larger and measurable compared to those presumed to be associated with exposure to low level, low dose radiation. Most of these risks are with us throughout our lives, and can be added up over a lifetime to obtain a total effect. Table 1 shows a number of different factors that decrease the average life expectancy of individuals in the United States.

Table 1: Risk Factors: Estimated Decrease in Average Life Expectancy

Overweight by 30%:		3.6 years
Cigarette smoking:	1 pack/day	7.0 years
	2 packs/day	10.0 years
Heart Disease:		5.8 years
Cancer:		2.7 years
City living (non-rural):		5.0 years
All operating commercial nucle power plants totaled:	ear	less than 12 minutes

Benefits of Nuclear Power

Nuclear power plays an important part in meeting today's electricity needs, and will continue to serve as an important source of electric energy well into the future. Today approximately twenty percent of the electricity produced in the United States is from nuclear powered electrical generating stations.

Nuclear power offers several advantages over alternative sources of electric energy:

- Nuclear power has an excellent safety record dating back to 1958, when the first commercial nuclear power station began operating,
- Uranium, the fuel for nuclear power stations, is a relatively inexpensive fuel that is readily available in the United States,
- Nuclear power is the cleanest energy source for power stations that use steam to produce electricity. There are no greenhouse gases or acid gases produced when using nuclear fuel.

The following sections provide information on the fundamentals of how Davis-Besse uses nuclear fuel and the fission process to produce electricity.

Nuclear Power Production

Electricity is produced in a nuclear power station in the same way as in a fossil-fueled station with the exception of the source of heat. Heat changes water to steam that turns a turbine. In a fossil-fueled station, the fuel is burned in a furnace, which is also a boiler. Inside the boiler, water is turned into steam. In a nuclear station, a reactor that contains a core of nuclear fuel, primarily uranium, replaces the furnace. Heat is produced when the atoms of Uranium are split inside the reactor. The process of splitting atoms is called fission.

What is Fission?

A special force called the binding force holds the protons and neutrons together in the nucleus of the atom. The strength of this binding force varies from atom to atom. If the bond is weak enough, the nucleus can be split when bombarded by a free neutron (Figure 5). This causes the entire atom to split, producing smaller atoms, more free neutrons, and heat. In a nuclear reactor, a chain reaction of fission events provides the heat necessary to boil the water to produce steam.

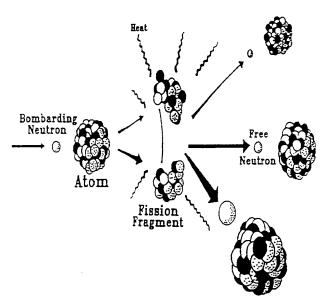


Figure 5: When a heavy atom, such as uranium-235 is split or fissioned, heat, free neutrons, and fission fragments result. The free neutrons can then strike neighboring atoms causing them to fission also. In the proper environment, this process can continue indefinitely in a chain reaction.

Nuclear Fuel

The fissioning of one Uranium atom releases approximately 50 million times more energy than the combustion of a single Carbon atom common to all fossil fuels. Since a single small reactor fuel pellet contains trillions of atoms, each pellet can release an extremely large amount of energy. The amount of electricity that can be generated from three small fuel pellets would require about 3.5 tons of coal or 12 barrels of oil to generate.

Nuclear fission occurs spontaneously in nature, but these natural occurrences cannot sustain themselves because the freed neutrons either are absorbed by non-fissionable atoms or quickly **decay**. In contrast, a nuclear reactor minimizes neutron losses, thus sustaining the fission process by several means:

- using fuel that is free of impurities that might absorb the free neutrons,
- enriching the concentration of the rarer fissionable isotope of Uranium (U-235) relative to the concentration of U-238, a more common isotope that does not fission easily,
- slowing down neutrons by providing a "moderator" such as water to increase the probability of fission.

Natural Uranium contains less than one percent U-235 compared to the more abundant U-238 when it's mined. Before it can be economically used in a reactor, it is enriched to three to five percent U-235, in contrast to nuclear material used in nuclear weapons which is enriched to over 97 percent. Because of the low levels of U-235 in nuclear fuel, a nuclear power station **cannot** explode like a bomb.

After the Uranium ore is separated from the earth and rock, it is concentrated in a milling process. After milling the ore to a granular form and dissolving out the Uranium with acid, the Uranium is converted to **Uranium hexafluoride (UF6)**. UF6 is a chemical form of Uranium that exists as a gas at temperatures slightly above room temperature. The UF6 is then highly purified and shipped to an enrichment facility where **gaseous diffusion converters** increase the concentration of U-235. The enriched gaseous UF6 is then converted into powdered **Uranium dioxide (UO2)**, a highly stable ceramic material. The UO2 powder is put under high pressure to form **fuel pellets**, each about 5/8 inch long and 3/8 inch in diameter. Approximately five pounds of these pellets are placed into a 12-foot long metal tube made of Zirconium alloy. The tubes constitute the **fuel cladding**. The fuel cladding is highly resistant to heat, radiation, and corrosion. When the tubes are filled with fuel pellets, they are called **fuel rods**.

The Reactor Core

Two hundred eight fuel rods comprise a single **fuel assembly**. The **Reactor core** at Davis-Besse contains 177 of these fuel assemblies, each approximately 14 feet tall and 2,000 pounds in weight. In addition to the fuel rods, the fuel assembly also contains 16 vacant holes for the insertion of **control rods**, and one vacant hole for an **incore-monitoring probe**. This probe monitors temperature and neutron levels in the fuel assembly. The Davis-Besse reactor vessel, which contains all the fuel assemblies, weighs 838,000 pounds, has a diameter of 14 feet, is 39 feet high, and has steel walls that are 8 ½ inches thick.

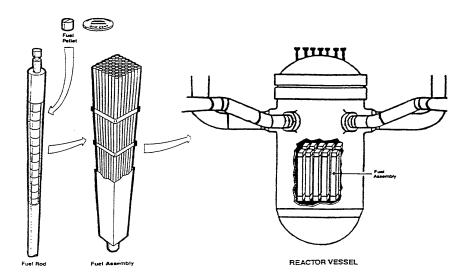


Figure 6: The reactor core at Davis-Besse contains 177 fuel assemblies. Each assembly contains 208 fuel rods. Each fuel rod is filled with approximately five pounds of fuel pellets. Each pellet is approximately 3/8 inch diameter and 5/8 inch long.

Fission Control

Raising or lowering control rod assemblies into the reactor core controls the fission rate. Each assembly consists of "fingers" containing Silver, Indium, and Cadmium metals that absorb free neutrons, thus disrupting the fission chain reaction. When control rod assemblies are slowly withdrawn from the core, the fission process begins and heat is produced. If the control rod assemblies are inserted rapidly into the reactor core, as occurs during a plant "trip", the chain reaction ceases. A slower acting (but more evenly distributed) method of fission control is achieved by the addition of a **neutron poison** to the reactor coolant water. At Davis-Besse, high-purity boric acid is concentrated or diluted in the coolant to achieve the desired level of fission. Boron-10 readily absorbs free neutrons, forming Boron-11, removing the absorbed neutrons from the chain reaction.

Reactor Types

Virtually all of the commercial reactors in this country are either boiling water reactors (BWRs) or pressurized water reactors (PWRs). Both types are also called light water reactors (LWRs) because their coolant, or medium to transfer heat, is ordinary water, which contains the light isotope of Hydrogen. Some reactors use the heavy isotope of Hydrogen (deuterium) in the reactor coolant. Such reactors are called heavy water reactors (HWRs).

In BWRs, water passes through the core and boils into steam. The steam passes through separators, which remove water droplets. The steam then travels to dryers before entering the turbine. After passing though the turbine the steam is condensed back into water and returns to the core to repeat the cycle.

In PWRs, the reactor water or coolant is pressurized to prevent it from boiling. The reactor water is then pumped to a **steam generator** (heat exchanger) where its heat is transferred to a secondary water supply. The secondary water inside the steam generator boils into steam, which is then used to turn the turbine. This steam is then condensed back into water and returned to the steam generator. Davis-Besse uses a PWR design.

The following paragraphs describe the various systems illustrated in Figure 7. Major systems in the Davis-Besse Station are assigned a different color in the figure.

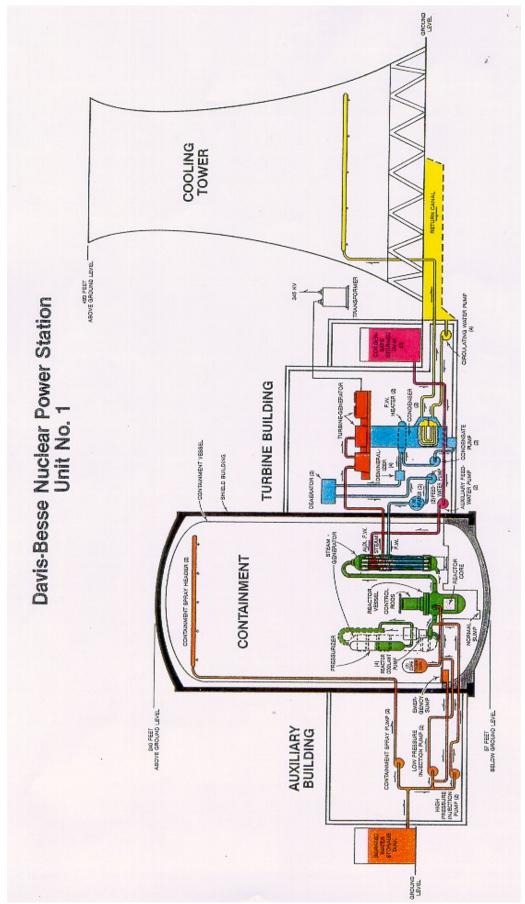


Figure 7: Station Systems

Station Systems

Containment Building and Fission Product Release Barriers

The **Containment building** houses the reactor vessel, the Pressurizer, two steam generators, the Reactor Coolant Pumps and Reactor Coolant System piping. The building is constructed of an inner 1–1/2 inch thick steel liner or **Containment vessel**, and the **Shield Building** with steel-reinforced concrete walls 2 feet thick. The shield building protects the containment vessel from a variety of environmental factors and provides an area for a **negative pressure boundary** around the steel Containment vessel. In the event that the integrity of the Containment vessel is compromised (e.g., a crack develops), this negative pressure boundary ensures that any airborne radioactive contamination present in the containment vessel is prevented from leaking out into the environment. This is accomplished by maintaining the pressure inside the Shield Building lower than that outdoors, thus forcing clean outside air to leak in. This minimizes potentially contaminated air between the Containment vessel and the Shield Building from leaking out. The Containment vessel is the third in a **series of barriers** that prevent the release of fission products in the unlikely event of an accident. The first barrier to the release of fission products is the fuel cladding itself. The second barrier is the walls of the primary system, i.e. the reactor vessel, steam generator and associated piping.

The Steam Generators

The steam generators perform the same function as a boiler at a fossil-fueled power station. The steam generator uses the heat of the primary coolant inside the steam generator tubes to boil the secondary side feedwater (secondary coolant). Fission heat from the reactor core is transferred to the steam generator in order to provide the steam necessary to drive the turbine. However, heat must also be removed from the core even after reactor shutdown in order to prevent damage to the fuel cladding. Therefore, pumps maintain a continuous flow of coolant through the reactor and steam generator. Primary loop water (green in Figure 7) exits the reactor at approximately 606°F, passes through the steam generator, transferring some of its heat energy to the Secondary loop water (blue in Figure 7) without actually coming in contact with it. Primary coolant water exits the steam generator at approximately 558°F to be circulated back into the reactor where it is again heated to 606°F as it passes up through the fuel assemblies. Under ordinary conditions, water inside the primary system would boil long before it reached such temperatures. However, it is kept under a pressure of approximately 2,200 pounds-per-squareinch (psi) at all times. This prevents the water from boiling and is the reason the reactor at Davis-Besse is called a Pressurized Water Reactor. Secondary loop water enters the base of the steam generator at approximately 450°F and under 1,100 psi pressure. At this pressure, the water can easily boil into steam as it passes over the tubes containing the primary coolant water.

Both the primary and the secondary coolant water are considered **closed loop systems**. This means that they are designed not to come in physical contact with one another. Rather, the cooling water in each loop transfers heat energy by **convection**. Convection is a method of **heat transfer** that can occur between two fluid media. It is the same process by which radiators are used to heat homes. The water circulating inside the radiator is separated from the air (a "fluid" medium) by the metal piping.

The Turbine Generator

The turbine, main generator, and the condenser are all housed in what is commonly referred to as the **Turbine Building**. The purpose of the **turbine** is to convert the **thermal energy** of the steam produced in the steam generator (referred to as **main steam**, red in Figure 7) to **rotational energy** of the turbine generator shaft. The turbine at Davis-Besse is actually composed of one six-stage high-pressure turbine and two seven-stage low-pressure turbines aligned on a common shaft. A **turbine stage** refers to a set of blades. Steam enters at the center of each turbine and moves outward along the shaft in opposite directions through each successive stage of blading. As the steam passes over the turbine blades, it loses pressure. Thus, the blades must be proportionally larger in successive stages to extract enough energy from the steam to rotate the shaft at the correct speed.

The purpose of the **main generator** is to convert the rotational energy of the shaft to **electrical energy** for commercial usage and support of station systems. The main generator is composed of two parts, a stationary **stator** that contains coils of copper conductors, and a **rotor** that supplies a rotating magnetic field within the coils of the stator. Electrical current is generated in the stator portion of the main generator. From this point, the electric current passes through a series of **transformers** for transmission and use throughout northern Ohio.

The Condenser

After the spent steam in the secondary loop (blue in Figure 7) passes through the High and Low Pressure Turbines, it is collected in the **condenser**, which is several stories tall and contains more than 70,000 small tubes. **Circulating Water** (yellow in Figure 7) goes to the **Cooling Tower** after passing through the tubes inside the Condenser. As the steam from the Low Pressure Turbines passes over these tubes, it is cooled and condensed. The condensed water is then purified and reheated before being circulated back into the steam generator again in a closed loop system. Circulating water forms the third (or **tertiary**) and final loop of cooling water used at the Davis-Besse Station.

Similar to the primary to secondary interface, the secondary-to-tertiary interface is based on a closed-loop design. The Circulating Water, which is pumped through the tubes in the Water Box, is able to cool the water in the Condenser by the processes of conduction and convection. Even in the event of a primary-to-secondary leak, the water vapor exiting the Davis-Besse Cooling Tower would remain non-radioactive. Closed loops are an integral part of the design of any nuclear facility. This feature greatly reduces the chance of environmental impact from Station operation.

The Cooling Tower

The Cooling Tower at Davis-Besse is easily the most noticeable feature of the plant. The tower stands 493 feet high and the diameter of the base is 411 feet. Two nine-foot diameter pipes circulate 480,000 gallons of water per minute to the tower. Its purpose is to recycle water from the Condenser by cooling and returning it.

After passing through the Condenser, the Circulating Water has warmed to approximately 100°F. In order to cool the water back down to 70°F, the Circulating Water enters the Cooling Tower forty feet above the ground. It is then sprayed evenly over a series of baffles called fill sheets, which are suspended vertically in the base of the tower. A natural draft of air is swept upward through these baffles and cools the water by evaporation. The evaporated water exits the top of the Cooling Tower as water vapor.

As much as 10,000 gallons of water per minute are lost to the atmosphere through evaporation via the **Cooling Tower**. Even so, approximately 98 percent of the water drawn from Lake Erie for station operation can be recycled through the Cooling Tower for reuse. A small portion of the Circulating Water is discharged back to Lake Erie at essentially the same temperature it was withdrawn earlier. The slightly warmer water has no measureable adverse environmental impact on the area of lake surrounding the discharge point.

Miscellaneous Station Safety Systems

The orange system in Figure 7 is part of the **Emergency Core Cooling System (ECCS)** housed in the **Auxiliary Building** of the station. The ECCS consists of three overlapping means of keeping the reactor core covered with water, in the unlikely event of a Loss-of-Coolant Accident (LOCA), thereby protecting the fuel cladding barrier against high-temperature failure. Depending on the severity of the loss of pressure inside the Primary System, the ECCS will automatically channel borated water into the Reactor by using **High Pressure Injection Pumps**, a **Core Flood Tank**, or **Low Pressure Injection Pumps**. Borated water can also be sprayed from the ceiling of the Containment Vessel to cool and condense any steam that escapes the Primary System.

The violet system illustrated in Figure 7 is responsible for maintaining the Primary Coolant water in a liquid state. It accomplishes this by adjusting the pressure inside the Primary System. Heaters inside the **Pressurizer** turn water into steam. This steam takes up more space inside the Pressurizer, thereby increasing the overall pressure inside the Primary System. The Pressurizer is equipped with spray heads that shower cool water over the steam in the unit. In this case, the steam condenses and the overall pressure inside the Primary System drops. The Quench Tank is where excess steam is directed and condensed for storage.

The scarlet system in Figure 7 is part of the **Auxiliary Feedwater System**, a key safety system in event the main feedwater supply (blue in Figure 7) to the Steam Generator is lost. Following a reactor shutdown, the Auxiliary Feedwater System can supply water to the Steam Generators from the **Condensate Storage Tanks**. The Auxiliary Feedwater System is housed in the Turbine Building along with the Turbine, Main Generator, and the Condenser.

Reactor Safety and Summary

Nuclear power plants are inherently safe, not only by the laws of physics, but by design. Nuclear power plants cannot explode like a bomb, because the concentration of fissionable material is far less than is necessary for such a nuclear explosion. Also, many safety features are equipped with several backup systems to ensure that any possible accident would be prevented from causing a serious health or safety threat to the public, or serious impact on the local environment. Davis-Besse, like all U.S. nuclear units, has many overlapping, or redundant safety features. If one system should fail, there are still back-up systems to assure the safe operation of the Station. During normal operation, the **Reactor Control System** regulates the power output by adjusting the position of the control rods. The Reactor can be automatically shut down by a separate **Reactor Protection System**, which causes all the control rod assemblies to be quickly and completely inserted into the Reactor core, stopping the chain reaction. To guard against the possibility of a Loss of Coolant Accident, the Emergency Core Cooling System is designed to pump reserve water into the reactor automatically if the reactor coolant pressure drops below a predetermined level.

The Davis-Besse Nuclear Power Station was designed, constructed, and is operated to produce a reliable, safe, and environmentally sound source of electricity.

Radioactive Waste

Many of the activities we depend on in our everyday lives produce radioactive waste by-products. Nuclear energy, industrial processes, and medical treatments are some of these activities. These by-products are managed and disposed of under strict requirements set by the federal government. With the exception of used nuclear fuel assemblies, these by-products produced at commercial power plants are referred to as low level radioactive waste.

Low Level Radioactive Waste

Low level radioactive waste consists of ordinary trash and other items that have become contaminated with radioactive materials and can include plastic gloves and other protective clothing, machine parts and tools, medical and laboratory equipment, filters, resins, and general scrap.

The radioactive material in low level radioactive waste emits the same types of radiation as naturally-occurring radioactive materials. Most low level activity in radioactive waste decay to background levels within months or years. Nearly all activity diminishes to stable materials in less than 300 years.

Davis-Besse currently transports low-level radioactive waste to Tennessee for processing, after which it is shipped to Utah or Texas for disposal. Davis-Besse has the capacity to store low-level waste produced on site for several years in the Low Level Radioactive Waste Storage Facility, should this facility close.

Davis-Besse added the Old Steam Generator Storage Facility (OSGSF) in 2011 to house the Reactor Vessel Closure Head, Service Support Structure and Control Rod Drive mechanisms removed during the 17M outage. Two Steam Generators and two Reactor Coolant System Hot Leg piping sections were replaced during 18th Refueling Outage (18RFO) in 2014, and are also stored there. The reinforced concrete building is comprised of three sections, the largest of

which contains the old steam generators and hot legs. The old reactor vessel head is kept in another bay. The sections of the building are completely enclosed with concrete for shielding. The dose rates outside the walls of this section are at background levels. The third section is the vestibule, which provides access to the other two sections. Both the steam generator and reactor vessel head sections have floor drains that lead to a sump that can be monitored and sampled from the vestibule. Surveys are routinely performed by Radiation Protection personnel to monitor the dose rates and tritium.

High Level Nuclear Waste

Like any industrial or scientific process, nuclear energy does produce waste. The most radioactive is defined as "high-level" waste (because it has high levels of radioactivity). Ninety-nine percent of high-level waste from nuclear plants is used nuclear fuel. The fuel undergoes certain changes during fission. Most of the fragments of fission, pieces that are left over after the atom is split, are radioactive. After a period of time, the fission fragments trapped in the fuel assemblies reduce the efficiency of the chain reaction. The oldest fuel assemblies are removed from the reactor and replaced with fresh fuel at 24-month intervals.

High-level nuclear waste volumes are small. Davis-Besse produces about 30 tons of used fuel every 24 months. All the used fuel produced by all America's nuclear energy plants since the first plant started operating over 30 years ago would cover an area the size of a football field about five yards deep. All of America's nuclear plants combined produce less than 3,000 tons of used fuel each year. By contrast, the U.S. produces about 300,000,000 tons of chemical waste annually. Also, nuclear waste slowly loses its radioactivity, but some chemical waste remains hazardous indefinitely.

Davis-Besse presently stores much of its used fuel in steel-lined water-filled concrete vaults inside the plant. The Department of Energy (DOE) is charged with constructing a permanent high-level waste repository for all of the nation's nuclear plants. By law, the Department of Energy was required to accept fuel from utilities by the end of 1998. Until the permanent DOE site is developed, nuclear plants will be responsible for the continued safe storage of high-level waste. At Davis-Besse, the fuel pool reached its capacity in 1996. At the end of 1996, Davis-Besse began the process of moving the older fuel assemblies that no longer require water cooling to air-cooled concrete shielded canisters. These will remain on site and inside the Protected Area until the Department of Energy facilities are ready to receive them. Dry fuel storage is already used in many countries, including Canada, and in the U.S. at multiple nuclear plants. Figure 8 illustrates the initial Dry Fuel Storage module arrangement (AREVA-TN HSM-80) at Davis-Besse. In 2001, work was performed to increase the storage capacity of the Spent Fuel Pool. The pool remains the same size, however, removing old storage racks and replacing them with new ones changed the configuration of storage.

After the Davis-Besse operating license was extended, additional storage capacity for used fuel became necessary. Dry fuel storage operations were resumed in 2017 using a similar, but more advanced module arrangement (AREVA-TN HSM-H) storage system. Four horizontal storage modules were added to the Independent Spent Fuel Storage Installation Pad in July of 2017. An additional twelve modules (AREVA-TN EOS-HSM) were installed on the pad in the fall of 2019 in which eight were loaded with dry shielded cannisters.

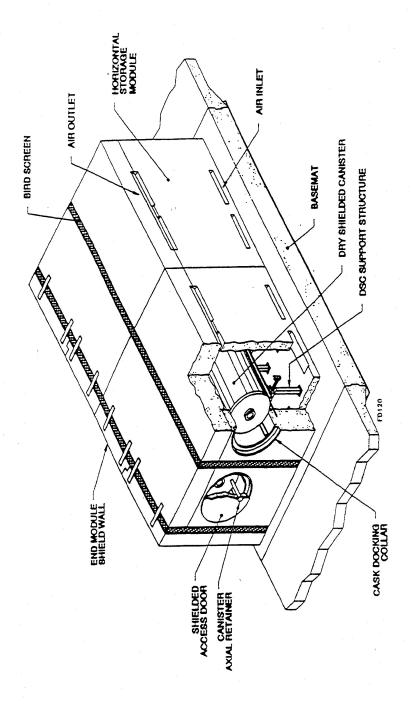


Figure 8: Initial HSM-80 Dry Fuel Storage Module Arrangement

Description of the Davis-Besse Site

The Davis-Besse site is located in Carroll Township of Ottawa County, Ohio. It is on the south-western shore of Lake Erie, just north of the Toussaint River. The site lies north and east of Ohio State Route 2, approximately 10 miles northwest of Port Clinton, 7 miles north of Oak Harbor, and 25 miles east of Toledo, Ohio (Figure 9).

This section of Ohio is flat and marshy, with maximum elevations of only a few feet above the level of Lake Erie. The area originally consisted of swamp forest and marshland, rich in wildlife but unsuitable for settlement and farming. During the nineteenth century, the land was cleared and drained, and has been farmed successfully since. Today, the terrain consists of farmland with marshes extending in some places for up to two miles inland from the Sandusky Lake Shore Ridge.

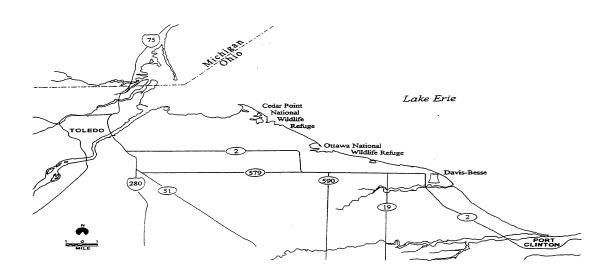


Figure 9: Davis-Besse is near Oak Harbor, Port Clinton, and the Ottawa National Wildlife Refuge.

The Davis-Besse site is mainly comprised of freshwater marsh land, with a small portion consisting of farmland. The marshes are part of a valuable ecological resource, providing a breeding ground for a variety of wildlife and a refuge for migratory birds. The site includes a tract known as Navarre Marsh, which was acquired from the U.S. Bureau of Sport Fisheries and Wildlife, Department of the Interior. In 1971, Toledo Edison purchased the 188-acre Toussaint River Marsh. The Toussaint River Marsh is contiguous with the 610-acre Navarre Marsh section of the Ottawa National Wildlife Refuge. The Navarre Marsh and Toussaint River Marsh are leased to the U.S. Fish and Wildlife Service, who manage it as part of the Ottawa National Wildlife Refuge.

The immediate area near Davis-Besse is sparsely populated. The most recent Census was completed in the year 2019 and listed the population of Ottawa County at 40,632. The incorporated communities nearest to Davis-Besse are:

- Port Clinton 10 miles southeast, population 5,945
- Oak Harbor 7 miles south, population 2,741
- Rocky Ridge 7 miles west southwest, population 520
- Toledo (nearest major city) 25 miles west, population 276,614

There are some residences along the lakeshore used mainly as summer homes. However, the major resort area of the county is farther east, around Port Clinton, Lakeside, and the Bass Islands.

The majority of non-marsh areas around the Davis-Besse site are used for farming. The major crops include soybeans, corn, wheat, oats, hay, fruits and vegetables. Meat and dairy animals are not major sources of income in the area. The main industries within five miles of the site are located in Erie Industrial Park, about four miles southeast of the station.

Most of the remaining marshes in the area have been maintained by private hunting clubs, the U.S. Fish and Wildlife Service, and the Ohio Department of Natural Resources, Division of Wildlife. The State of Ohio Department of Natural Resources operates many wildlife and recreational areas within 10 miles of the Station. These include Magee Marsh, Turtle Creek and Crane Creek Wildlife Research Station. Magee Marsh and Turtle Creek lie between three and six miles WNW of the Station. Magee Marsh is a wildlife preserve that allows public fishing, nature study, and a controlled hunting season. Turtle Creek is a wooded area at the southern end of Magee Marsh, which offers boating and fishing. Crane Creek is adjacent to Magee Marsh, and is a popular bird watching and hunting area. The Ottawa National Wildlife Refuge, which is operated by the U.S. Fish and Wildlife Service, lies four to nine miles WNW of the Site, immediately west of Magee Marsh.

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Radiological Environmental Monitoring Program

Introduction

The Radiological Environmental Monitoring Program (REMP) was established at Davis-Besse for several reasons: to provide a supplementary check on the adequacy of containment and effluent controls, to assess the radiological impact of the Station's operation on the surrounding area, and to determine compliance with applicable radiation protection guides and standards. The REMP was established in 1972, five years before the Station became operational. This preoperational surveillance program was established to describe and quantify the radioactivity, and its variability, in the area prior to the operation of Davis-Besse. After Davis-Besse became operational in 1977, the operational surveillance program continued to measure radiation and radioactivity in the surrounding areas.

A variety of environmental samples are collected as part of the REMP at Davis-Besse. The selection of sample types is based on the established critical pathways for the transfer of radionuclides through the environment to humans. The selection of sampling locations is based on sample availability, local meteorological and hydrological characteristics, local population characteristics, and land usage in the area of interest. The selection of sampling frequencies for the various environmental media is based on the radionuclides of interest, their respective half-lives, and their effect in both biological and physical environments.

A description of the REMP at Davis-Besse is provided in the following section. In addition, a brief history of analytical results for each sample type collected since 1972, and a more detailed summary of the analyses performed during this reporting period is also provided.

Pre-operational Surveillance Program

The federal government requires nuclear facilities to conduct radiological environmental monitoring prior to constructing the facility. This pre-operational surveillance program is for the collection of data needed to identify critical pathways, including selection of radioisotope and sample media combinations for the surveillance conducted after facility operations begin. Radio-chemical analyses performed on samples should include nuclides that are expected to be released during normal facility operations, as well as typical fallout radionuclides and natural background radioactivity. All environmental media with a potential to be affected by facility operation, as well as those media directly in the critical pathways, should be sampled during the pre-operational phase of the environmental surveillance program.

The pre-operational surveillance design, including nuclide/media combinations, sampling frequencies and locations, collection techniques and radiochemical analyses performed, should be carefully considered and incorporated in the design of the operational surveillance program. In

this manner, data can be compared in a variety of ways (for example: from year to year, location to location, etc.) in order to detect any radiological impact the facility has on the surrounding environment. Data collection during the pre-operational phase should be planned to provide a comprehensive database for evaluating any future changes in the environment surrounding the plant.

Davis-Besse began its pre-operational environmental surveillance program five years before the Station began producing power for commercial use in 1977. Data accumulated during that time provides an extensive database from which Station personnel are able to identify trends in the radiological characteristics of the local environment. The environmental surveillance program at Davis-Besse will continue after the Station has reached the end of its economic viability and decommissioning has begun.

Operational Surveillance Program Objectives

The operational phase of the environmental surveillance program at Davis-Besse was designed with the following objectives in mind:

- to fulfill the obligations of the radiological surveillance sections of the Station's Technical Specifications and Offsite Dose Calculation Manual
- to determine whether any significant increase in the concentration of radionuclides in critical pathways occurs
- to identify and evaluate the buildup, if any, of radionuclides in the local environment, or any changes in normal background radiation levels
- to verify the adequacy of Station controls for the release of radioactive materials

Quality Assurance

An important part of the environmental monitoring program at Davis-Besse is the **Quality Assurance** (**QA**) **Program**, which is conducted in accordance with the guidelines specified in NRC Regulatory Guide 4.15, "Quality Assurance for Radiological Monitoring Programs". The QA Program is designed to identify possible deficiencies in the REMP so that corrective actions can be initiated promptly. Davis-Besse's Quality Assurance program also provides confidence in the results of the REMP through:

- performing regular audits (investigations) of the REMP, including a careful examination of sample collection techniques and record keeping
- performing audits of contractor laboratories which analyze the environmental samples
- requiring analytical contractor laboratories to participate in the United States Environmental Protection Agency Cross Check Program
- requiring analytical contractor laboratories to split samples for separate analysis followed by a comparison of results

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- splitting samples prior to analysis by independent laboratories, and then comparing the results for agreement
- requiring analytical contractor laboratories to perform in-house spiked sample analyses

Quality Assessment audits and inspections of the Davis-Besse REMP are performed by the Energy Harbor QA Department and the NRC. In addition, the Ohio Department of Health (ODH) also performs independent environmental monitoring in the vicinity of Davis-Besse. The types of samples collected, and list of sampling locations used by the ODH were incorporated in Davis-Besse's REMP, and the analytical results from their program can be compared to Davis-Besse's. This practice of comparing results from identical samples, which are collected and analyzed by different parties, provides a valuable tool to verify the quality of the laboratories' analytical procedures and data generated.

In 1987, environmental sampling personnel at Davis-Besse incorporated their own QA program into the REMP. Duplicate samples, called quality control samples, were collected at several locations. These duplicate samples were assigned different identification numbers than the numbers assigned to the routine samples. This ensured that the analytical laboratory would not know the samples were identical. The laboratory results from analysis of the quality control samples and the routine samples could then be compared for agreement. Quality control sampling has been integrated into the program and has become an important part of the REMP since 1987. Quality control sampling locations are changed frequently in order to duplicate as many sampling locations as possible, and to ensure the contractor laboratory has no way of correctly pairing a quality control sample with its routine sample counterpart.

Program Description

The Radiological Environmental Monitoring Program (REMP) at Davis-Besse is conducted in accordance with Title 10, Code of Federal Regulations, Part 50; NRC Regulatory Guide 4.8; the Davis-Besse Nuclear Power Station Operating License, Sections 5.6.1 and 5.6.2 of Davis-Besse Technical Specifications, the Davis-Besse Offsite Dose Calculation Manual (ODCM) and Station Operating Procedures. Samples are collected weekly, monthly, quarterly, semiannually, or annually, depending upon the sample type and nature of the radionuclides of interest. Environmental samples collected by Davis-Besse personnel are divided into four general types:

- atmospheric -- including samples of airborne particulate and airborne radioiodine
- terrestrial -- including samples of milk, groundwater, broad leaf vegetation
- aquatic -- including samples of treated and untreated surface water, fish, and shoreline sediments
- **direct radiation** -- measured by thermoluminescent dosimeters

All environmental samples are labeled using a sampling code. Table 2 provides the sample codes and collection frequency for each sample type.

REMP samples are collected onsite and offsite up to 25 miles away from the Station. Sampling locations may be divided into two general categories: Indicator and Control. Indicator locations

are those which would be most likely to display the effects caused by the operation of Davis-Besse and are located within five miles of the station. Control locations are those which should be unaffected by Station operations and are more than five miles from the Station. Data from Indicator locations are compared with data from the Control locations. This comparison allows REMP personnel to take into account naturally-occurring background radiation or fallout from weapons testing in evaluating any radiological impact Davis-Besse has on the surrounding environment. Data from Indicator and Control locations are also compared with pre-operational data to determine whether significant variations or trends exist.

Since 1987 the REMP has been reviewed and modified to develop a comprehensive sampling program adjusted to the current needs of the utility. Modifications have included additions of sampling locations above the minimum amount required in the ODCM and increasing the number of analyses performed on each sample. In addition to adding new locations, duplicate or Quality Control (QC) sample collection is performed to verify the accuracy of the lab analyzing the environmental samples.

Approximately 1,200 samples were collected and over 1,500 analyses were performed during 2020. In addition, 10% of the sampling locations were quality control sampling locations. Table 3 shows the number of the sampling location and number collected for each type.

Table 2: Sample Codes and Collection Frequencies

Sample Type	Sample Code	Collection Frequency
Airborne Particulate	AP	Weekly
Airborne Iodine	AI	Weekly
Thermoluminescent Dosimeter	TLD	Quarterly
Milk	MIL	Monthly (semi-monthly during grazing season – when applicable)
Groundwater	WW	Quarterly – Control Only (when available)
Broadleaf Vegetation	BLV	Monthly (when available)
Surface Water - Treated	SWT	Weekly
Surface Water - Untreated	SWU	Weekly
Fish	FIS	Annually
Shoreline Sediment	SED	Semiannually

Table 3: Sample Collection Summary

Sample Type (Remarks)	Collection Type ^a / Frequency ^b	Number of Locations	Number of Samples Collected	Number of Samples Missed
<u>Atmospheric</u>				
Airborne Particulates	C/W	9	458	10(c)
Airborne Radioiodine	C/W	9	458	10(c)
<u>Terrestrial</u>				
Milk	G/M (d)	1	2	0
Groundwater	G/Q(e)	2	4(e)	0
Broadleaf Vegetation <u>Aquatic</u>	G/M	4	30	0
Treated	Comp/WM	2	104	0
Surface Water	G/WM(f)	1	52	0
Untreated Surface Water	G/WM(f) Comp/WM	1 3	52 156	0 0
Fish (2 species)	G/A	2	4	0
Shoreline Sediments	G/SA	2	4	0
<u>Direct Radiation</u> Thermoluminescent Dosimeters (TLD)	C/Q(f)	64	255	1(g)

⁽a) Type of Collection: C = Continuous; G = Grab; Comp = Composite

⁽b) Frequency of Collection: WM = Weekly composite Monthly; W = Weekly, M = Monthly; Q = Quarterly when available; SA = Semiannually; A = Annually

⁽c) Ten samples were "missed" during 2020 due to loss of power from weather-related conditions, from pump failures after electrical bus transfers, property owner construction projects, or Covid-19 closures. Due to continued performance problems in early 2020 with the model of air sampling pumps being used, all fifteen units (9 in service and 6 spares) were refurbished in the fall of 2020 to improve reliability and performance. Construction projects in Control Locations T-11 and T-12 resulted in interruption of power until the project was completed. In each of the ten cases that an air sample was missed, the required number of samples specified in Offsite Dose Calculation Manual Table 6-1 was satisfied by other in-service and operating REMP Air Samplers.

⁽d) There are no milking animals within the vicinity (≤ 8 km) of the Davis-Besse Nuclear Power Station. Control samples were collected twice during the grazing season and analyzed for baseline purposes in the event that an animal is introduced within 8 km from the station in the future.

⁽e) There are no ground water wells within the vicinity of the Davis-Besse Nuclear Power Station that are tapped for drinking or irrigation purposes. The community is served by the Carroll Township Water Plant. Two Control location were periodically sampled during 2020 for baseline purposes in the event a new well is drilled and utilized in which the hydraulic gradient or recharge properties are suitable for contamination.

⁽f) Includes quality control location. SWU and SWT QC included in weekly grab sample/composited monthly.

⁽g) TLD missing in field upon collection.

Sample Analysis

When environmental samples are analyzed, several types of measurements may be performed to provide information about the radionuclides present. The major analyses that are performed on environmental samples collected for the Davis-Besse REMP include:

Gross beta analysis measures the total amount of beta emitting radioactive material present in a sample. Beta radiation may be released by many different radionuclides. Since beta decay gives a continuous energy spectrum rather than the discrete lines or "peaks" associated with gamma radiation, identification of specific beta emitting nuclides is much more difficult. Therefore, gross beta analysis only indicates whether the sample contains normal or abnormal concentrations of beta emitting radionuclides; it does not identify specific radionuclides. Gross beta analysis merely acts as a tool to identify samples that may require further analysis.

Gamma spectral analysis provides more specific information than gross beta analysis. Gamma spectral analysis identifies each gamma emitting radionuclide present in the sample, and the amount of each nuclide present. Each radionuclide has a very specific "fingerprint" that allows for swift and accurate identification. For example, gamma spectral analysis can be used to identify the presence and amount of Iodine-131 in a sample. Iodine-131 is a man-made radioactive isotope of Iodine that may be present in the environment as a result of fallout from nuclear weapons testing, routine medical uses in diagnostic tests, and routine releases from nuclear power stations.

Tritium analysis indicates whether a sample contains the radionuclide tritium (H-3) and the amount present. As discussed in the Introduction section, tritium is an isotope of Hydrogen that emits low energy beta particles.

Strontium analysis identifies the presence and amount of Strontium-89 and Strontium-90 in a sample. These man-made radionuclides are found in the environment as a result of fallout from nuclear weapons testing. Strontium is usually incorporated into the pool of the biosphere. In other words, it accumulates in living organisms, where it is stored in the bone tissue. The principal Strontium exposure pathway is via milk produced by cattle grazed on pastures exposed to deposition from airborne releases.

Gamma Doses measured by thermoluminescent dosimeters while in the field are determined by a special laboratory procedure. Table 4 provides a list of the analyses performed on environmental samples collected for the Davis-Besse REMP.

Often samples will contain little radioactivity, and may be below the lower limit of detection for the particular type of analysis used. The lower limit of detection (LLD) is the smallest amount of sample activity that can be detected with a reasonable degree of confidence at a predetermined level. When a measurement of radioactivity is reported as less than LLD (<LLD), it means that the radioactivity is so low that it cannot be accurately measured with any degree of confidence by a particular method for an individual analysis.

Table 4: Radiochemical Analyses Performed on REMP Samples

Sample Type Analyses Performed

Atmospheric Monitoring

Airborne Particulate Gross Beta

Gamma Spectroscopy

Strontium-89 Strontium-90

Airborne Radioiodine Iodine-131

Terrestrial Monitoring

Milk (when available) Gamma Spectroscopy

Iodine-131 Strontium-89 Strontium-90 Stable Calcium Stable Potassium

Groundwater (when available) Gross Beta

Gamma Spectroscopy

Tritium Strontium-89 Strontium-90

Broadleaf Vegetation Gamma Spectroscopy

Iodine-131 Strontium-89 Strontium-90

Table 4: Radiochemical Analyses Performed on REMP Samples (continued)

Sample Type Analyses Performed

Aquatic monitoring

Untreated Surface Water Gross Beta

Gamma Spectroscopy

Tritium Strontium-89 Strontium-90

Treated Surface Water Gross Beta

Gamma Spectroscopy

Tritium
Strontium-89
Strontium-90
Iodine-131

Fish Gross Beta

Gamma Spectroscopy

Shoreline Sediment Gamma Spectroscopy

Direct Radiation Monitoring

Thermoluminescent Dosimeters Gamma Dose

Sample History Comparison

The measurement of radioactive materials present in the environment will depend on factors such as weather or variations in sample collection techniques or sample analysis. This is one reason why the results of sample analyses are compared with results from other locations and from earlier years. Generally, the results of sample analyses are compared with pre-operational and operational data. Additionally, the results of Indicator and Control locations are also compared. This allows REMP personnel to track and trend the radionuclides present in the environment, to assess whether a buildup of radionuclides is occurring and to determine the effects, if any, the operation of Davis-Besse is having on the environment. If any unusual activity is detected, it is investigated to determine whether it is attributable to the operation of Davis-Besse, or to some other source such as nuclear weapons testing.

Atmospheric Monitoring

- **Airborne Particulates:** No radioactive particulates have been detected as a result of Davis-Besse's operation. Only natural and fallout radioactivity from nuclear weapons testing and the 1986 nuclear accident at Chernobyl have been detected.
- Airborne Radioiodine: Radioactive Iodine-131 fallout was detected in 1976, 1977, and 1978 from nuclear weapons testing, and in 1986 (0.12 to 1.2 picocuries per cubic meter) from the nuclear accident at Chernobyl. Iodine-131 was detected at all ten air sample locations over a four-week period between March 22 and April 12, 2011 following the Fukushima Daiichi Nuclear Station disaster in Japan.

Terrestrial Monitoring:

- **Groundwater:** Tritium was not detected above the lower limit of detection during 2020 in any REMP groundwater Control samples.
- Milk: Iodine-131 from nuclear weapons testing fallout was detected in 1976 and 1977 at concentrations of 1.36 and 23.9 picocuries/liter respectively. In 1986, concentrations of 8.5 picocuries/liter were detected from the nuclear accident at Chernobyl. Iodine was not detected in REMP milk samples following the Fukushima Daiichi Nuclear Station disaster in 2011. Iodine-131 was not detected in any REMP Milk Control samples in 2020.
- **Broadleaf Vegetation:** Only naturally-occurring radioactive material and material from nuclear weapons testing have been detected.

Aquatic Monitoring

- Surface Water (Treated and Untreated): Historically, tritium has been detected sporadically at very low levels in treated and untreated surface water at both Control and Indicator locations. In 2020 tritium was not detected in any of the Untreated surface water samples. Similarly, none of the Treated surface water samples during 2020 indicated a presence of tritium. All other treated and untreated surface water samples in 2020 were less than the 330 pCi/L low level of detection value.
- Fish: Only natural background radioactive material was detected.
- Shoreline Sediments: Only natural background radiation, material from nuclear testing and the 1986 nuclear accident at Chernobyl have been detected.

Direct Radiation Monitoring

• Thermoluminescent Dosimeters (TLDs): The quarterly and annual gamma TLD dose rates for the current reporting period were evaluated using the methodologies presented in ANSI/HPS N13.37-2014 (R2019), "Environmental Dosimetry – Criteria for System Design and Implementation," and U.S. Nuclear Regulatory Commission Regulatory Guide 4.13, Revision 2, "Environmental Dosimetry – Performance Specifications, Testing, and Data Analysis. Evaluation of quarterly TLDs resulted in determination of the Facility Related Dose (FRD – actual amount of dose detected in a monitoring period above background attributed to the facility) for each measuring location. Davis-Besse sampling locations includes two inner ring TLDs in each meteorological sector in the general area of the Unrestricted Area Boundary, as well as two TLDs in each outer ring sector (excluding

those sectors that extend into Lake Erie) located 6 to 8 km from the station. Multiple TLDs are also placed in special interest areas (Sand Beach and Long Beach local communities, Oak Harbor, and Port Clinton). The evaluation of FRD at each TLD location determined that all quarterly and annual doses were considered "non-detectable". No increase above natural background radiation attributable to Davis-Besse was observed in 2020.

2020 Program Anomalies

There were no REMP sample anomalies noted in 2020.

There were multiple missed air samples (see Table 3) during 2020 due to weather-related events, performance issues with the sample pumps, electrical bus transfers, and to construction projects at the Control locations. After a trend of pump failures began to emerge early in 2020, all REMP air sample pumps were refurbished to improve reliability and performance. One missed Control sample occurred due to temporary closure of the access road to Magee Marsh Wildlife Area due to Covid-19 restrictions. At two other Control locations (T-11 and T-12), power was removed from the air monitors due to local construction projects. Despite the multiple failure events, the minimum number of air samples required by the ODCM were always available and were collected for analysis. Additional air sampling locations are normally in service each week by the Davis-Besse program.

Abnormal Releases

There were no abnormal liquid or gaseous releases occurring during 2020.

Atmospheric Monitoring

Air Samples

Environmental air sampling is conducted to detect any increase in the concentration of airborne radionuclides that may be inhaled by humans or serve as an external radiation source. Inhaled radionuclides may be absorbed from the lungs, gastrointestinal tract, or from the skin. Air samples collected by the Davis-Besse REMP include airborne particulate and airborne radioiodine. Samples are collected weekly with low volume vacuum pumps, which draw a continuous sample through a glass fiber filter and charcoal cartridge at a rate of approximately two cubic foot per minute. Airborne particulate samples are collected on 47 mm diameter filters. Charcoal cartridges are installed downstream of the particulate filters to sample for the airborne radioiodine.

The airborne samples are sent to an offsite contract laboratory for analysis. At the laboratory, the airborne particulate filters are stored for 72 hours before they are analyzed to allow for the decay of naturally occurring short-lived radionuclides. However, due to the short half-life of iodine 131 (approximately eight days), the airborne radioiodine cartridges are analyzed upon receipt by the contract laboratory.

Airborne Particulate

Davis-Besse has nine continuous air samplers that monitor for air particulate and iodine. There are five Indicator locations, including four around the site boundary (T-1, T-2, T-3, and T-4), and one by the adjacent community of Sand Beach (T-7). There are locations in two nearest communities of Oak Harbor (T-9) and Port Clinton (T-11). Control stations are set up in Toledo (T-12) and at Crane Creek (T-27). Gross beta analysis is performed on each of the weekly samples.



Each quarter, the filters from each location are combined (composite) and analyzed for gamma-emitting radionuclides, Strontium-89 and Strontium-90. Beta-emitting radionuclides were detected at an average concentration of $0.026~\text{pCi/m}^3$ at Unrestricted Area Boundary locations, $0.027~\text{pCi/m}^3$ at Community locations, and $0.025~\text{pCi/m}^3$ at Control locations. Beryllium-7 was detected by the gamma spectroscopic analysis of the quarterly composites. Beryllium-7 is a naturally occurring radionuclide produced in the upper atmosphere by cosmic radiation. Potassium-40 was the only other gamma-emitting radionuclide that was detected (in four samples) at levels slightly above its LLDs and is also naturally occurring. Strontium-89 and Strontium-90 were not detected above their LLDs. These results show no adverse change in radioactivity in air samples attributable to the operation of the Davis-Besse Nuclear Power Station in 2020.

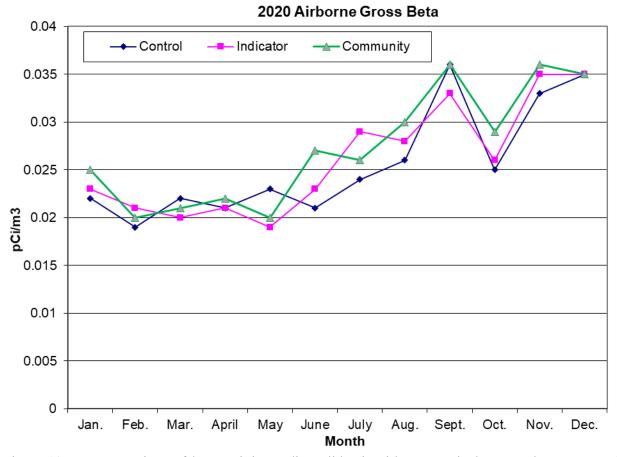


Figure 10: Concentrations of beta-emitting radionuclides in airborne particulate samples were nearly identical and trended together at Indicator, Control, and Community locations during 2020.

Airborne Iodine-131

Airborne Iodine-131 samples are collected at the same nine locations as the airborne particulate samples. Charcoal cartridges are placed downstream of the particulate filters. These cartridges are collected weekly, sealed in separate collection bags and sent to the laboratory for gamma analysis.

Table 5: Air Monitoring Locations

Sample Location Number	Type of Location	Location Description
T-1	I	Site boundary, 0.6 miles ENE of Station
T-2	I	Site boundary, 0.9 miles E of Station
T-3	I	Site boundary, 1.4 miles ESE of Station
T-4	I	Site boundary, 0.8 miles S of Station
T-7	CM	Sand Beach, main entrance, 0.9 miles NW of Station
T-9	CM	Oak Harbor Substation, 6.8 miles SW of Station
T-11	CM	Ottawa County Regional Water Intake Facility, 9.5 miles SE of Station
T-12	CN	Toledo Water Treatment Plant, 20.7 miles WNW of Station
T-27	CN	Magee Marsh Wildlife Area, 5.3 miles WNW of Station

 $\overline{I = Indicator \quad CN = Control \quad CM = Community}$

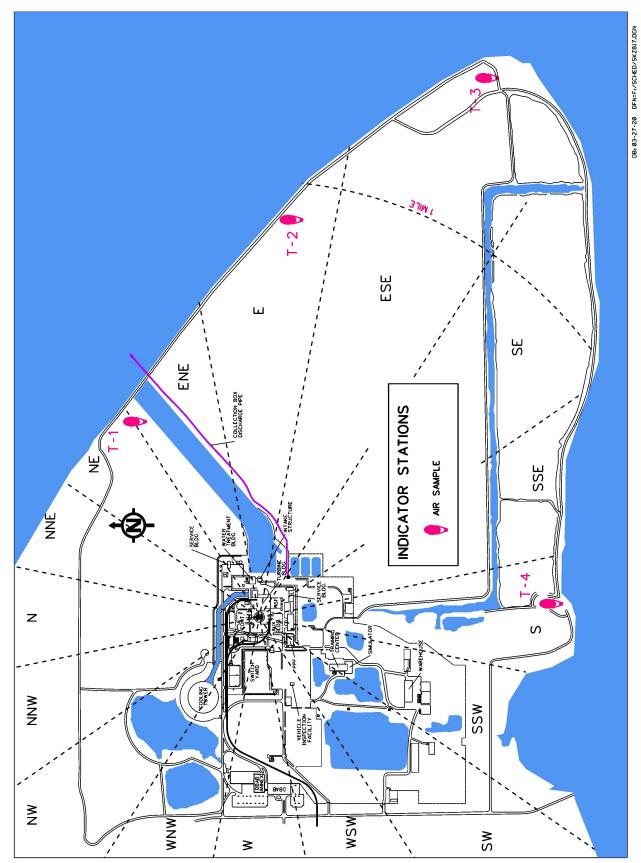


Figure 11: Air Sample Site Map

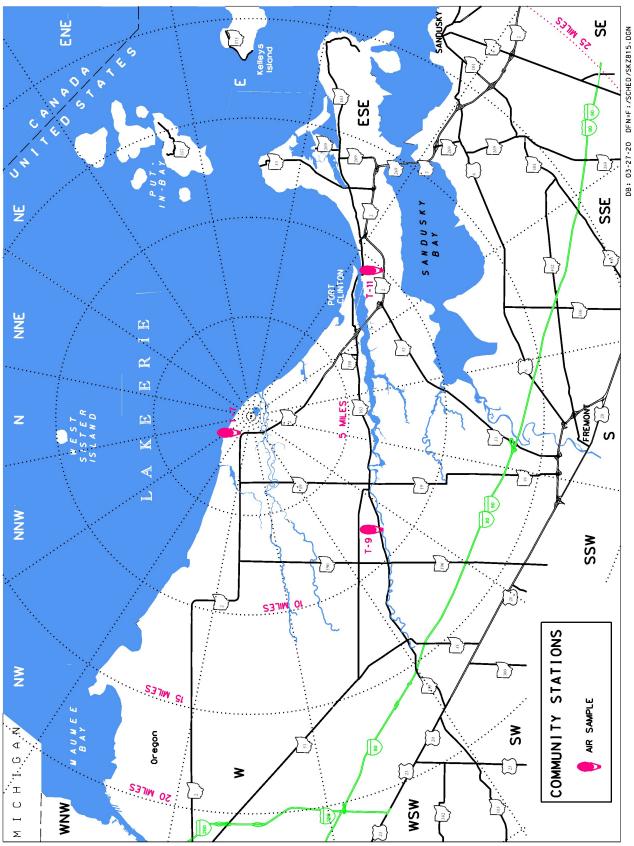


Figure 12: Air Sample 25-mile Map - COMMUNITY

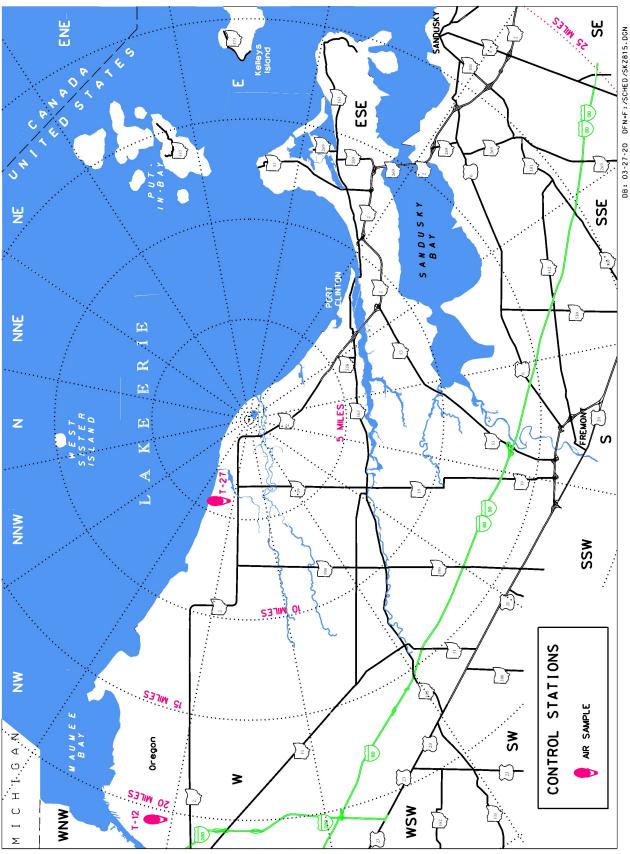


Figure 13: Air Sample 25-mile Map - CONTROL

Terrestrial Monitoring

The collection and analysis of groundwater, milk, and broad leaf vegetation provides data to assess the buildup of radionuclides that may be ingested by humans. The data provides information on the deposition of radionuclides from the atmosphere.

Many radionuclides are present in the environment due to sources such as cosmic radiation and fallout from nuclear weapons testing. Some of the radionuclides present are:

- **Tritium**, present as a result of the interaction of cosmic radiation with the upper atmosphere and as a result of routine release from nuclear facilities
- **Beryllium-7**, present as a result of the interaction of cosmic radiation with the upper atmosphere
- Cesium-137, a manmade radionuclide which has been deposited in the environment, (for example, in surface soils) as a result of fallout from nuclear weapons testing and routine releases from nuclear facilities
- **Potassium-40**, a naturally occurring radionuclide normally found throughout the environment (including in the human body)
- Fallout radionuclides from nuclear weapons testing, including Strontium-89, Strontium-90, Cesium-137, Cerium-141, Cerium-144, and Ruthenium-106. These radionuclides may also be released in minute amounts from nuclear facilities.

The radionuclides listed above are expected to be present in many of the environmental samples collected in the vicinity of the Davis-Besse Station. The contribution of radionuclides from the operation of Davis-Besse is assessed by comparing sample results with pre-operational data, operational data from previous years, Control location data, and the types and amounts of radioactivity normally released from the Station in liquid and gaseous effluents.

Milk Samples

Milk sampling is a valuable tool in environmental surveillance because it provides a direct basis for assessing the buildup of radionuclides in the environment that may be ingested by humans. Milk from animals is collected and analyzed if available because it is one of the few foods commonly consumed soon after production. The milk pathway involves the deposition of radionuclides from atmospheric releases onto forage consumed by cows. The radionuclides present in the forage-eating cow are incorporated into the milk, which is then consumed by humans.

When available, milk samples are collected at Indicator and Control locations once a month from November through April, and twice a month between May and October. When grazing animals are present, sampling is increased in the summer when the herds are normally outside on pasture and not consuming stored feed. In December of 1993, Indicator location T-8 was eliminated from the sampling program, and no other Indicator milk site has existed since that time. The Control location is sampled periodically to document additional baseline data. In the event dairy animals return to the area within five miles of the station, monthly sampling will resume to include them as an Indicator site.

Two 2020 milk Control samples were analyzed for Strontium-89, Strontium-90, Iodine-131, other gamma-emitting radionuclides, stable Calcium and Potassium. Strontium-89 and Strontium-90 were not detected above their LLDs of 0.8 pCi/l and 0.5 pCi/l, respectively.

Iodine-131 was not detected in any of the milk sample above the LLD of 0.4 pCi/l. The concentrations of Barium-140 and Cesium-137 were below their respective LLDs in all samples collected.

Since the chemistries of Calcium and Strontium are similar, as are Potassium and Cesium, organisms tend to deposit Cesium radioisotopes in muscle tissue and Strontium radioisotopes in bones. In order to detect the potential environmental accumulation of these radionuclides, the ratios of the Strontium radioactivity (pCi/l) to the concentration of Calcium (g/l), and the Cesium radioactivity (pCi/l) compared to the concentration of Potassium (g/l) were monitored in milk. These ratios are compared to standard values to determine if buildup is occurring. No statistically significant variations in the ratios were observed.

Table 6: Milk Control Location

Sample Location Number	Type of Location	Location Description
T-24	С	Toft Dairy, Sandusky, 21.0 miles SE of Station

C = Control

Groundwater Samples

Soil acts as a filter and an ion exchange medium for most radionuclides. However, tritium and other radionuclides such as Ruthenium-106 have a potential to seep through the soil and could reach groundwater. Davis-Besse does not discharge its liquid effluents directly to the ground.

The Offsite Dose Calculation Manual requires that groundwater samples shall be collected when the wells are tapped for drinking or irrigation purposes in areas where the hydraulic gradient or recharge properties are suitable for contamination. There currently are not any wells near the station that are used for drinking or irrigation purposes or that are located in areas where the hydraulic gradient or recharge properties are suitable for contamination. Groundwater wells located within the Unrestricted Area Boundary are monitored in accordance with the NEI 07-07 program (reference Table 20).

REMP personnel periodically sample the groundwater wells that are closest to the station (5.3 miles) at Control sample location T-27 Magee Marsh Wildlife Area, or (2.3 miles) at Control sample location T-29 Fenwick Marina, to collect data for comparison to the NEI 07-07 well data. The Control groundwater samples are analyzed for beta-emitting radionuclides, tritium, Stronti-um-89, Strontium-90 and gamma-emitting radionuclides.

During the fall of 1998, the Carroll Township Water Plant began operation and offered residents a reliable, inexpensive source of high-quality drinking water. This facility has replaced drinking water wells near Davis-Besse, as verified by the Ottawa County Health Department, and the Indicator groundwater sampling was discontinued for a year. Two beach wells were subsequently identified within five miles of the Station, however, none of them have been operational since 2018. Four Control samples were collected in 2020. The gross beta averaged 1.35 pCi/l. Due to the hydraulic gradient of the Davis-Besse site, groundwater flows back towards the Intake Structure. In addition, the site NEI 07-07 groundwater well tritium results are a fraction of regulatory limits. Therefore, REMP Groundwater samples and local community were not affected by the operation of the Davis-Besse Nuclear Power Station.

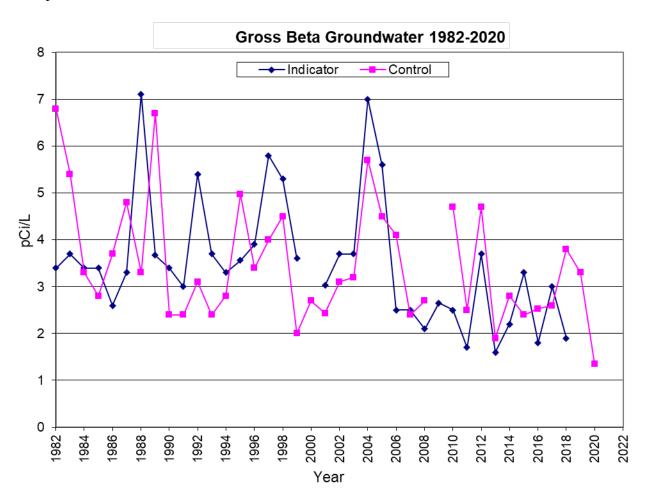


Figure 14: Shown above are the annual averages for gross beta in groundwater from 1982-2020. There were no Indicator samples available in 2000 and no Control samples available in 2009. No indicator wells have been operational since 2018. No Indicator wells were available in 2020 and only two Control wells.

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Table 7: Groundwater Monitoring Locations

Sample Location Number	Type of Location	Location Description
T-27A	C	Magee Marsh Wildlife Area. Not used for irrigation or consumption.
T-29	С	Fenwick Marina, Not used for irrigation or consumption.

C = Control I = Indicator

Broadleaf Vegetation Samples

Broadleaf vegetation also represents a direct pathway to humans. Broadleaf vegetation may become contaminated by deposition of airborne radioactivity (nuclear weapons fallout or airborne releases from nuclear facilities), or from irrigation water drawn from lake water which receives liquid effluents (hospitals, nuclear facilities, etc.). Radionuclides from the soil may be absorbed by the roots of the plants and become incorporated into the edible portions. During the growing season, edible broadleaf vegetation samples, such as kale and cabbage, are collected from gardens and farms in the vicinity of the Station and also from Control locations.

In 2020, broadleaf vegetation samples (cabbage and kale) were collected at two Indicator locations (T-17, T-19) and two Control locations (T-30, T-37). Broadleaf vegetation was collected once per month during the growing season. All samples were analyzed for gamma-emitting radionuclides, Strontium-89, Strontium-90, and Iodine-131.

Iodine-131 was not detected above the LLD of 0.058 pCi/g (wet) in any broadleaf samples. The only gamma-emitting radionuclide detected in the broadleaf vegetation samples was Potassium-40, which is naturally occurring. Results of broadleaf vegetation samples were similar to results observed in previous years. Strontium-89 and Strontium-90 were not detected in any sample above their respective LLDs (0.030 and 0.021 pCi/l wet) in broadleaf vegetation samples at Control and Indicator locations.

Operation of Davis-Besse had no observable adverse radiological effect on the surrounding environment in 2020.

Table 8: Broadleaf Vegetation Locations

Sample Location Number	Type of Location	Location Description
T-17	I	D. Thompson, 1.8 miles SSE of Station
T-19	I	L. Bowyer Jr., 1.0 mile W of Station
T-30	C	Bench Farms, 12.8 miles WNW of Station
T-37	C	Bench Farm, 13.0 miles SW of Station

 $[\]overline{I = Indicator, C = Control}$



FIGURE 15: BROADLEAF VEGETATION INDICATOR MAP

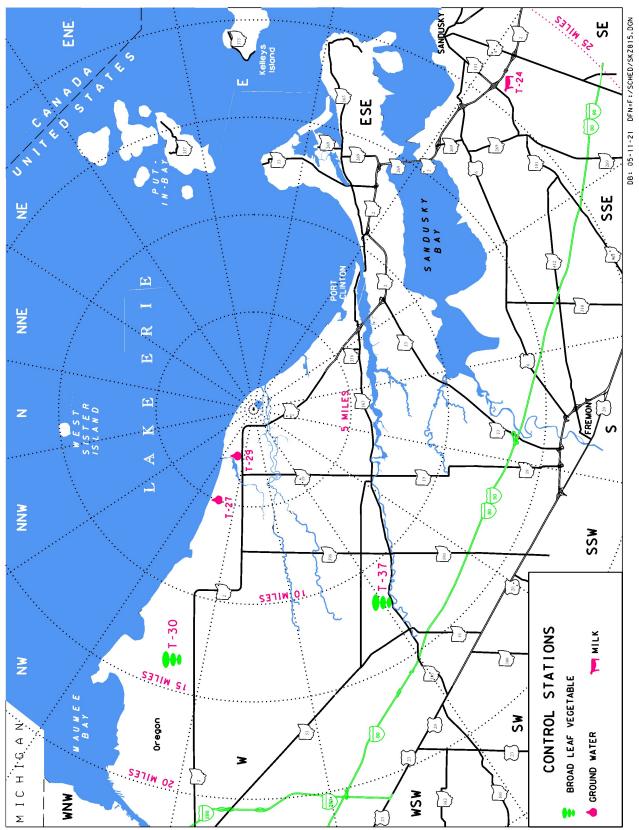


Figure 16: Terrestrial 25-mile Map

Aquatic Monitoring



Radionuclides may be present in Lake Erie from many sources including atmospheric deposition, run-off/soil erosion, and releases of radioactive material in liquid effluents from hospitals or nuclear facilities. These sources provide two forms of potential exposure to radiation, external and internal. External exposure can occur from the surface of the water, shoreline sediments and from immersion (swimming) in the water. Internal exposure can occur from ingestion of radionuclides, either directly from drinking water, or as a result of the transfer of radionuclides through the aquatic food chain with eventual consumption of aquatic organisms, such as fish. To monitor these pathways, Davis-Besse collects samples of treated surface water (drinking water), untreated surface water (lake or river water), fish, and shoreline sediments.

Treated Surface Water

Treated surface water is water from Lake Erie, which has been processed for human consumption. Radiochemical analysis of this processed water provides a direct basis for assessing the dose to humans from ingestion of drinking water.

Samples of treated surface water were collected from one Indicator (T-22B) and one Control locations (T-11). These locations include the water treatment facilities for Carroll Township and Port Clinton. Samples were collected weekly and composited monthly. The monthly composites were analyzed for beta-emitting radionuclides. The samples were also composited in a quarterly sample and analyzed for Strontium-89, Strontium-90, gamma-emitting radionuclides, and tritium. One Quality Control sample was collected each month from one of the two routine sites on an alternating location basis.

The annual average of beta-emitting radionuclides for Indicator and Control locations was 1.44 and 1.24 pCi/l, respectively. These results are similar to previous years. Tritium was not detected above the LLD of 330 pCi/l during 2020. Strontium-89 was not detected above the LLD of 0.6 pCi/l. Strontium-90 activity was not detected above its LLD of 0.6 pCi/l. These results are similar to those of previous years and indicate no adverse impact on the environment resulting from the operation of Davis-Besse during 2020.

Each month, weekly quality control samples were collected at different locations. The results of the analyses from the quality control samples were within statistical agreement with the routine samples.

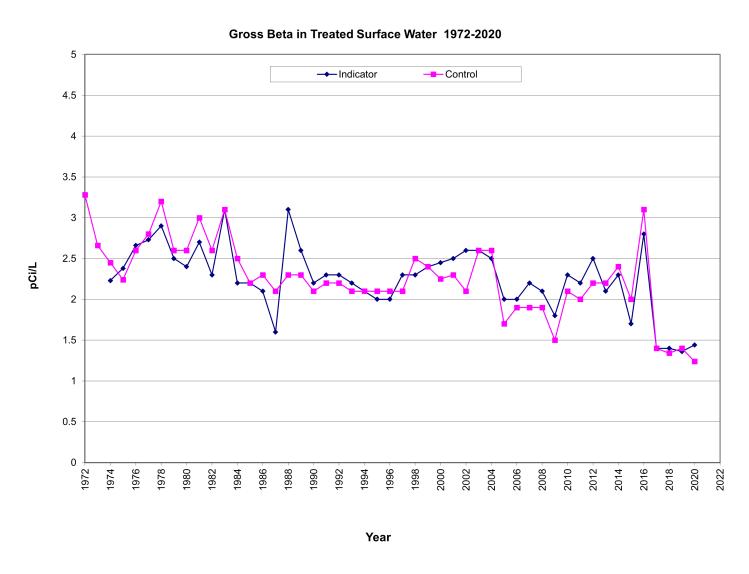


Figure 17: Since 1974, the annual concentrations of beta emitting radionuclides in treated surface water samples collected from Indicator locations have been consistent with those from Control locations. Davis-Besse has had no measurable radiological impact on treated surface water used to make drinking water.

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Table 9: Treated Surface Water Locations

Sample Location Number	Type of Location	Location Description
T-11	С	Ottawa County Regional Water Intake Facility, 9.5 miles SE of Station
T-22B	I	Carroll Township Water Treatment Plant, sampled at Davis-Besse REMP lab
T-143	QC	Quality Control Site

I = Indicator

C = Control

QC = Quality Control

Untreated Surface Water

Sampling and analysis of untreated surface water provides a method of assessing the dose to humans from external exposure from the lake surface as well as from immersion in the water. It also provides information on the radionuclides present, which may affect drinking water, fish, and irrigated crops.



Routine Program

The routine program is the basic sampling program that is performed year-round. Untreated water samples are collected from water intakes used by nearby water treatment plants. Routine samples are collected at Port Clinton and Carroll Township. An additional Indicator sample is located at the mouth of the Toussaint River just prior to entering Lake Erie. These samples are collected weekly and composited monthly. The monthly composite is analyzed for beta-emitting radionuclides, tritium, and gamma-emitting radionuclides. The samples are also composited quarterly and analyzed for Strontium-89 and Strontium-90. One QC sample was collected each month from one of the three routine sites on an alternating location basis.

Sample Results

For the routine untreated surface water samples that are composited weekly, the beta emitting radionuclides had an average concentration of 1.62 pCi/L at Indicator locations during 2020. Control locations averaged 1.35 pCi/L during this period.

Tritium was not detected above the LLD of 330 pCi/l in Indicator samples of Untreated Surface Water at locations T-3 and T-22 in 2020.

Each month, weekly composited quality control samples of untreated water were analyzed from different locations. The results of the analyses from the quality control samples were consistent with the routine samples and averaged 1.40 pCi/L for beta emitting radionuclides.

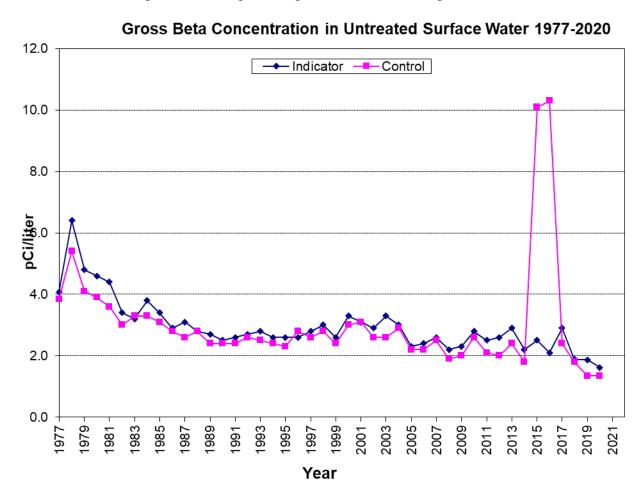


Figure 18: The average concentration of beta-emitting radionuclides in Untreated Surface Water. The peaks seen in 2015 and 2016 were attributed to elevated potassium from fertilizer runoff into the Portage River.

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Table 10: Untreated Surface Water Locations

Sample Location Number	Type of Location	Location Description
T-3	I	Site boundary, 1.4 miles ESE of Station
T-11	С	Ottawa County Regional Water Treatment Plant, 9.5 miles SE of Station
T-22A	I	Carroll Township Water Plant, State Route 2, 2.1 miles NW of Station
T-145	QC	Roving Quality control Site

 $\overline{I = Indicator, C = Control}$

Shoreline Sediment

The sampling of shoreline sediments can provide an indication of the accumulation of insoluble radionuclides which could lead to internal exposure to humans through the ingestion of fish, through re-suspension into drinking water supplies, or as an external radiation source from shoreline exposure to fishermen and swimmers.

Samples of deposited sediments in water along the shore were collected at Indicator site T-3 and Control location T-11. Samples were analyzed for gamma-emitting radionuclides. Naturally occurring Potassium-40 was detected at both Control and Indicator locations. No other gamma-emitting isotopes were detected. These results are similar to previous years.

Table 11: Shoreline Sediment Locations

Sample Location Number	Type of Location	Location Description
T-3	I	Site boundary, 1.4 miles ESE of Station
T-11	С	Ottawa County Regional Water Intake Facility, 9.5 miles SE of Station

I = Indicator C = Control

Fish

Fish are analyzed primarily to quantify the dietary radionuclide intake by humans, and secondarily to serve as indicators of radioactivity in the aquatic ecosystem. The principal nuclide that may be detected in fish is naturally occurring Potassium-40.

Davis-Besse collected two species of fish from sampling locations near the Station's liquid discharge point and more than ten miles away from the Station where fish populations would not be expected to be impacted by the Station operation. Walleye are collected because of being a popular recreational fish and white perch and white bass are collected because their importance as a commercial fish.

The average concentrations of beta-emitting radionuclides in ODCM-required fish were similar for Indicator and Control locations (4.03 pCi/g and 4.10 pCi/g wet weight, respectively). No gamma emitters were detected above their respective LLDs.

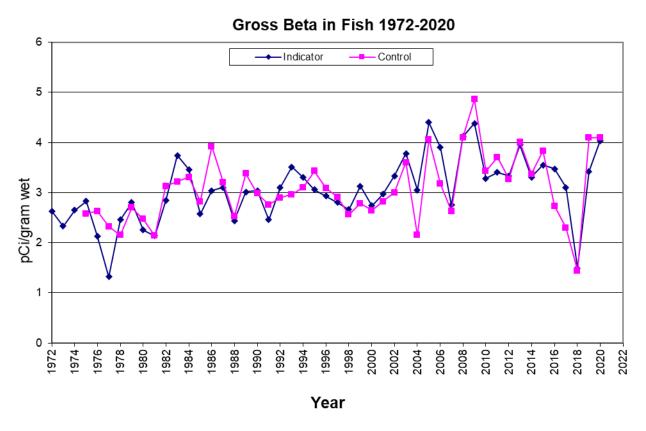


Figure 19: Average concentrations of beta-emitting radionuclides (pCi/gram) in fish samples were similar at Indicator and Control locations and were comparable to results of previous years.

Table 12: Fish Locations

Sample Location Number	Type of Location	Location Description
T-33	I	Lake Erie, within 5 miles radius of Station
T-35	С	Lake Erie, greater than 10 mile radius of Station

I = Indicator C= Control

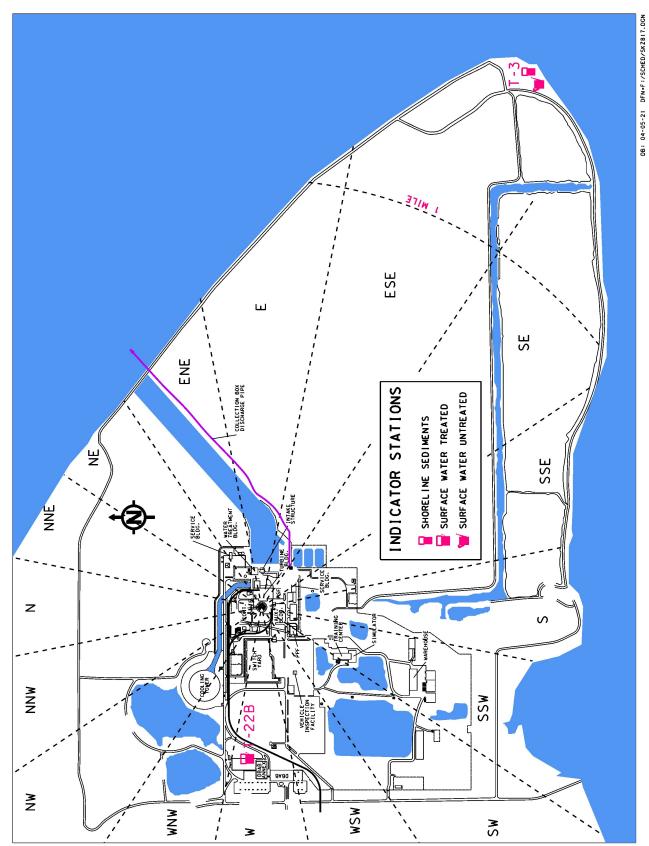


Figure 20: Aquatic Site Map

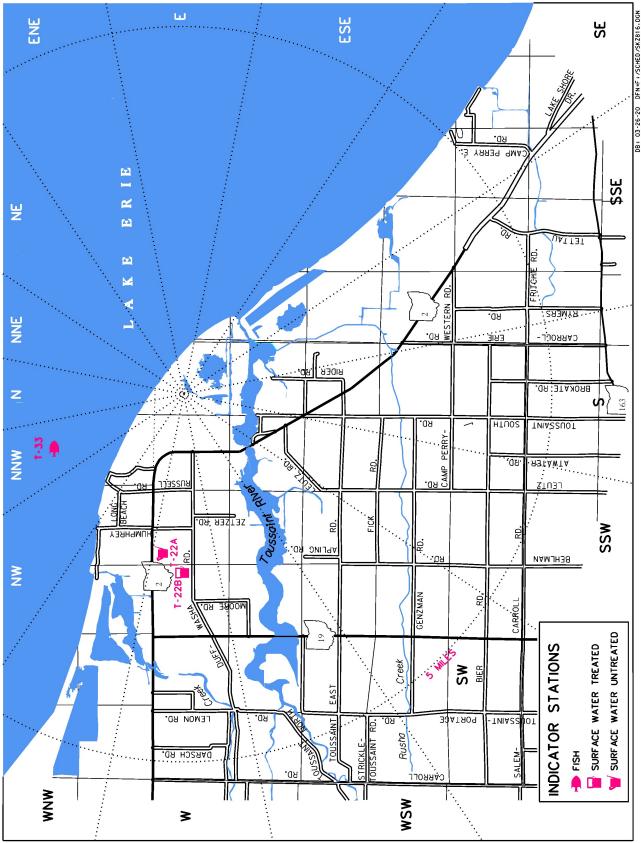


Figure 21: Aquatic 5-mile Map

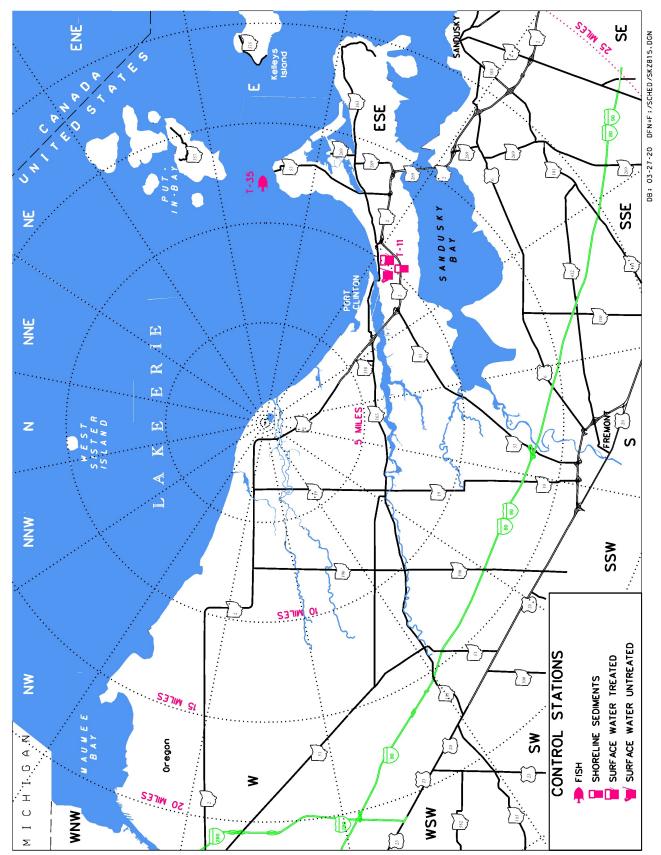


Figure 22: Aquatic 25-mile Map

Direct Radiation Monitoring

Thermoluminescent Dosimeters

Radionuclides present in the air and deposited on the ground may directly irradiate individuals. Direct radiation levels at and around Davis-Besse are constantly monitored by thermoluminescent dosimeters (TLDs). TLDs are small devices which store radiation dose information. The TLDs used at Davis-Besse contain a Sulfate:Dysprosium (CaSO₄:Dy) card with four main readout areas. Multiple readout areas are used to ensure the precision of the measurements.

Thermoluminescence is a process in which ionizing radiation interacts with phosphor, which is the sensitive material in the TLD. Energy is trapped in the TLD material and can be stored for several months or years. This provides an excellent method to measure the dose received over long periods of time. The energy that was stored in the TLD as a result of interaction with radiation is released and measured by a controlled heating process in a calibrated reading system. As the TLD is heated, the phosphor releases the stored energy in the form of light. The amount of light detected is directly proportional to the amount of radiation to which the TLD was exposed. The reading process re-zeroes the TLD and prepares it for reuse.

TLD Collection

Davis-Besse has 64 TLD locations (48 Indicator, 10 Control, and 6 Quality Control). TLDs are collected and replaced on a quarterly basis. All ODCM TLDs placed in the field were retrieved and evaluated during the current reporting period.

In 2020, the average dose equivalent for quarterly TLDs at Indicator locations was 14.4 mrem/91 days, and for Control locations was 15.2 mrem/91 days. Evaluation of quarterly TLDs resulted in determination of the Facility Related Dose (FRD – actual amount of dose detected in a monitoring period above background attributed to the facility) for each measuring location. Davis-Besse Indicator sampling locations includes two inner ring TLDs in each meteorological sector in the general area of the Unrestricted Area Boundary, as well as two TLDs in each outer ring sector (excluding those sectors that extend into Lake Erie) located 6 to 8 km from the station. Control TLDs are also placed in special interest areas (Sand Beach and Long Beach local communities, Oak Harbor, and Port Clinton). The evaluation of FRD at each TLD location determined that all quarterly and annual doses in 2020 were considered as "non-detectable". No increase above natural background radiation attributable to the operation of Davis-Besse was observed in 2020.

Quality Control TLDs

Duplicate TLDs have been placed at five sites. These TLDs are placed in the field at the same time and location as some of the routine TLDs, but are assigned quality control site numbers. This allows for multiple measurements at the location without the laboratory being aware that they are the same. A comparison of the quality control and routine results provides a method to check the accuracy of the measurements. The dose equivalent of Indicator quality control TLDs averaged 13.2 mrem/91 days while the quality control TLDs at Control locations yielded an average dose equivalent of 12.8 mrem/91 days.

Direct Radiation Monitoring

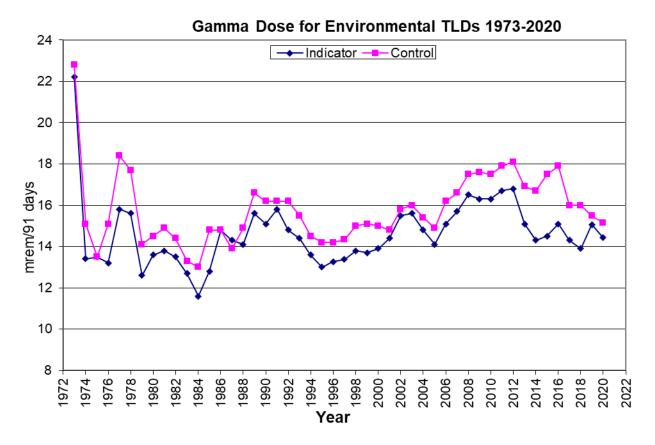


Figure 23: The similarity between Indicator and Control results demonstrates that the operation of Davis-Besse has not caused any abnormal gamma dose. Facility Related Dose for all Indicator and Control TLDs was non-detectable.

Table 13: Thermoluminescent Dosimeter Locations

Sample Location Number	Type of Location	Location Description
T-1	I	Site boundary, 0.6 miles ENE of Station
T-2	I	Site boundary, 0.9 miles E of Station
T-3	I	Site boundary, 1.4 miles ESE of Station
T-4	I	Site boundary, 0.8 miles S of Station
T-5	I	Site boundary, 0.5 miles W of Station
T-6	I	Site boundary, 0.5 miles NNE of Station
T-7	C	Sand Beach entrance, 0.9 miles NW of Station
T-9	С	Oak Harbor Substation, 6.8 miles SW of Station
T-10	I	Site boundary, 0.5 miles SSW of Station near Warehouse
T-11	С	Ottawa County Regional Water Treatment Plant, 9.5 miles SE of Station
T-12	С	Toledo Water Treatment Plant, 20.7 miles WNW of Station
T-24	C	Sandusky, 21.0 miles SE of Station
T-27	C	Magee Marsh, 5.3 miles WNW of Station
T-38	I	Site boundary, 0.6 miles ENE of Station
T-40	I	Site boundary, 1.1 miles SE of Station
T-41	I	Site boundary, 0.8 miles SSE of Station
T-42	I	Site boundary, 0.6 miles SW of Station
T-43	I	Site boundary, 0.5 miles SW of Station
T-44	I	Site boundary, 0.5 miles WSW of Station
T-45	I	Site boundary, 0.5 miles WNW of Station

Table 13: Thermoluminescent Dosimeter Locations (continued)

Sample Location Number	Type of Location	Location Description
T-46	I	Site boundary, 0.5 miles NW of Station
T-47	I	Site boundary, 0.5 miles N of Station
T-48	I	Site boundary, 0.5 miles NE of Station
T-49	I	Site boundary, 0.5 miles NE of Station
T-51	Ι	Utility Pole, 4.2 miles SSE of Station
T-52	I	Utility Pole, 4.2 miles S of Station
T-54	I	Utility Pole, 4.2 miles SW of Station
T-55	I	Utility Pole, 4.0 miles W of Station
T-60	I	Site boundary, 0.7 miles S of Station
T-62	I	Site boundary, 1.0 mile SE of Station
T-67	I	Site boundary, 0.4 miles NNW of Station
T-68	I	Site boundary, 0.5 miles WNW of Station
T-69	I	Site boundary, 0.4 miles W of Station
T-71	I	Site boundary, 0.5 mile NNW of Station
T-73	I	Site boundary, 0.5 mile WSW of Station
T-74	I	Site boundary, 0.5 mile SSW of Station
T-80	QC	Quality Control Site
T-83	QC	Quality Control Site
T-84	QC	Quality Control Site
T-87	QC	Quality Control in lead pig DBAB Annex

Table 13: Thermoluminescent Dosimeter Locations (continued)

Sample Location Number	Type of Location	Location Description
T-100	С	Ottawa County Highway Garage, Oak Harbor, 6.0 miles S of Station
T-113	QC	Quality Control Site
T-124	С	Lake Street, Ottawa Co. Agricultural Complex 6.0 miles SSW of Station
T-125	I	Behlman and Bier Roads, 4.4 miles SSW of Station
T-126	I	Utility pole, 4.4 miles S of Station
T-127	I	Camp Perry Western and Rymers Road, 4.0 miles SSE of Station
T-128	I	Erie Industrial Park, Port Clinton Road, 4.0 miles SE of Station
T-142	I	Site Boundary, 0.8 miles SSE of Station
T-150	С	Humphrey and Hollywood Roads, 2.1 miles NW of Station
T-154	I	Utility Pole, 4.0 miles SW of Station
T-155	С	Fourth and Madison Streets, Port Clinton, 9.5 miles SE of Station
T-200	QC	Quality Control Site
T-201	C	Sand Beach, 1.1 miles NNW of Station
T-203	I	Sand Beach/Site Boundary, 0.7 miles N of Station
T-206	I	Site Boundary, 0.6 miles NW of Station

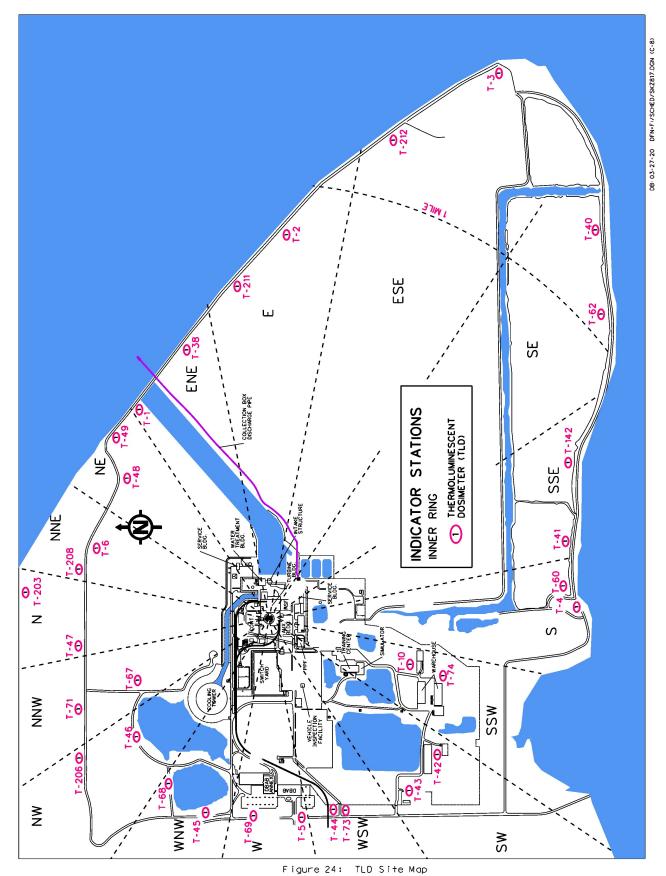
Table 13: Thermoluminescent Dosimeter Locations (continued)

Sample Location Number	Type of Location	Location Description
T-208	I	Site Boundary, 0.5 miles NNE of Station
T-211	I	Site boundary, 0.8 miles E of Station
T-212	I	Site boundary, 1.2 miles ESE of Station
T-217	I	Utility Pole, 4.2 miles SSW of Station
T-218	I	Toussaint East Rd., 4.0 miles WSW of Station
T-219	I	Toussaint Portage Rd., 4.8 miles WSW of Station
T-220	I	Duff-Washa Rd., 4.6 miles W of Station
T-221	I	Magee Marsh, 5.0 miles WNW of Station
T-222	I	Turtle Creek Access, 3.8 miles WNW of Station
T-224	I	Erie Industrial Park, 4.4 miles SE of Station

I = Indicator

C = Control

QC = Quality Control



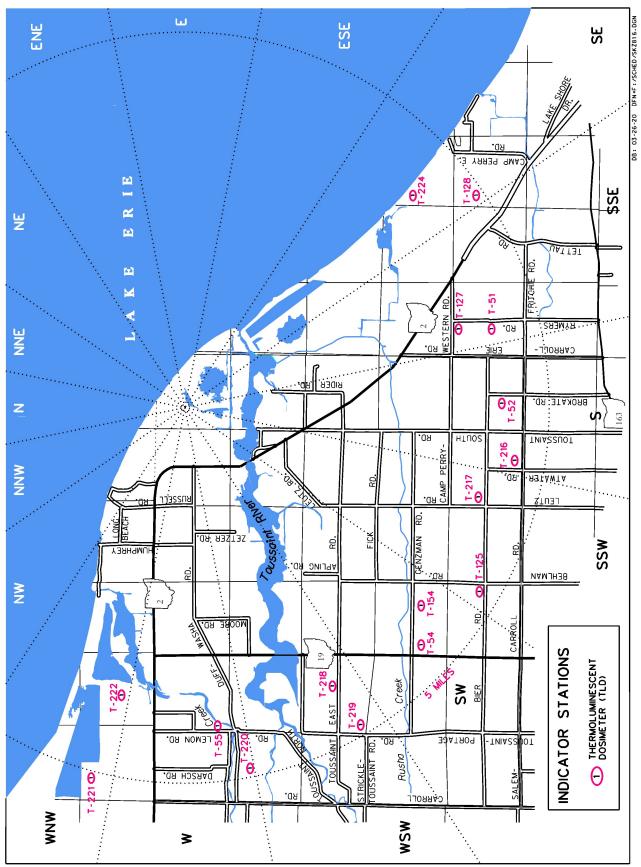


Figure 25: TLD 5-mile Map

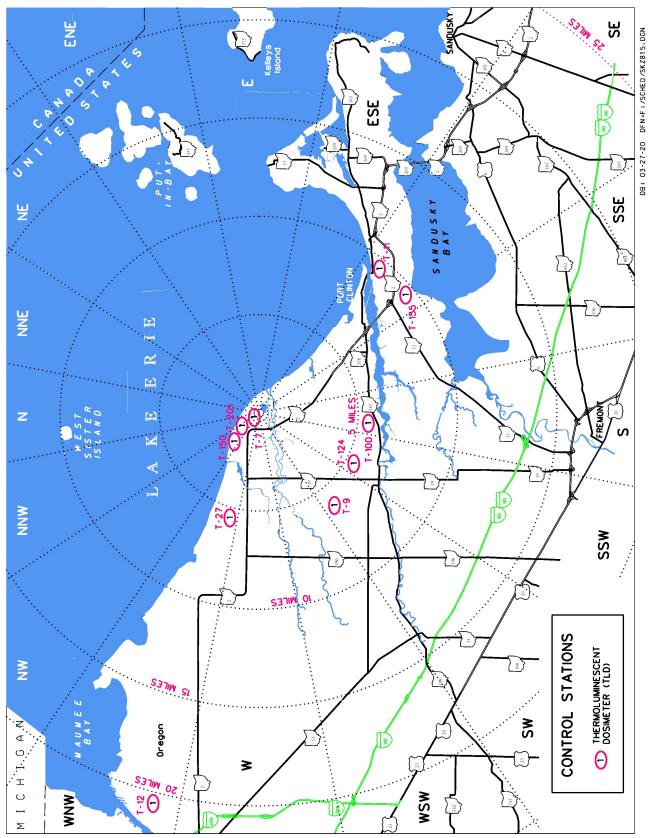


Figure 26: TLD 25-mile Map

Conclusion

The Radiological Environmental Monitoring Program at Davis-Besse is conducted to determine the radiological impact, if any, of the Station's operation on the environment. Radionuclide concentrations measured at Indicator locations were compared with concentrations measured at Control locations in previous operational studies and in the pre-operational surveillance program. These comparisons indicate normal concentrations of radioactivity in all environmental samples collected in 2020. Davis-Besse's operation in 2020 indicated no adverse radiological impact on the residents and environment surrounding the station. The results of the sample analyses performed during the period of January through December 2020 are summarized in Appendix C of this report.

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Radioactive Effluent Release Report January 1 through December 31, 2020

Protection Standards

Soon after the discovery of x-rays in 1895 by Wilhelm Roentgen, the potential hazards of ionizing radiation were recognized, and efforts were made to establish radiation protection standards. The primary source of recommendations for radiation protection standards within the United States is the National Council on Radiation Protection and Measurement (NCRP). Many of these recommendations have been given legislative authority by being published in the Code of Federal Regulations by the Nuclear Regulatory Commission.

The main objective in the control of radiation is to ensure that any dose is kept not only within regulatory limits, but kept as low as reasonably achievable (ALARA). The ALARA principle applies to reducing radiation dose both to the individual working at Davis-Besse and to the general public. "Reasonably achievable" means that exposure reduction is based on sound economic decisions and operating practices. By practicing ALARA, Davis-Besse minimizes health risk and environmental detriment and ensures that doses are maintained well below regulatory limits.

Sources of Radioactivity Released

During the normal operation of a nuclear power station, most of the fission products are retained within the fuel and fuel cladding. However, small amounts of radioactive fission products and trace amounts of the component and structure surfaces, which have been activated, are present in the primary coolant water. The three types of radioactive material released are noble gases, Iodine and particulates, and tritium.

The noble gas fission products in the primary coolant are given off as a gas when the coolant is depressurized. These gases are then collected by a system designed for gas collection and stored for radioactive decay prior to release.

Small releases of radioactivity in liquids may occur from valves, piping or equipment associated with the primary coolant system. These liquids are collected through a series of floor and equipment drains and sumps. All liquids of this nature are monitored and processed, if necessary, prior to release.

Noble Gas

Some of the fission products released in airborne effluents are radioactive isotopes of noble gases, such as Xenon (Xe) and Krypton (Kr). Noble gases are biologically and chemically inert. They do not concentrate in humans or other organisms. They contribute to human radiation dose by being an external source of radiation exposure to the body. Xe-133 and Xe-135, with half-lives of approximately five days and nine hours, respectively, are the major radioactive noble gases released. They are readily dispersed in the atmosphere.

Iodine and Particulates

Annual releases of radioisotopes of Iodine, and those particulates with half-lives greater than 8 days, in gaseous and liquid effluents are small. Factors such as their high chemical reactivity and solubility in water, combined with the high efficiency of gaseous and liquid processing systems, minimize their discharge. The predominant radioiodine released is Iodine-131 with a half-life of approximately eight days. The main contribution of radioactive Iodine to human dose is to the thyroid gland, where the body concentrates Iodine.

The principal radioactive particulates released are fission products (e.g., Cesium-134 and Cesium-137) and activation products (e.g., Cobalt-58 and Cobalt-60). Radioactive Cesium and Cobalt contribute to internal radiation exposure of tissues such as muscle, liver, and the intestines. These particulates are also a source of external radiation exposure if deposited on the ground.

Tritium

Tritium, a radioactive isotope of Hydrogen, is the predominant radionuclide in liquid effluents. It is also present in gaseous effluents. Tritium is produced in the reactor coolant as a result of neutron interaction with deuterium (also a Hydrogen isotope) present in the water and with the Boron in the primary coolant. When tritium, in the form of water or water vapor, is ingested or inhaled it is dispersed throughout the body until eliminated.

Carbon-14

Carbon-14 (C-14) is a naturally occurring isotope of carbon produced in the atmosphere by cosmic rays. Its concentration in the environment was significantly increased by nuclear weapons testing in the 1950s and 1960s. It is also produced in nuclear power production in much lesser amounts.

C-14 is a pure beta emitter and generates no dose from direct radiation. Its predominant exposure pathway is through ingestion of produce which has incorporated C-14 into plant matter via the chemical form of CO₂ during photosynthesis.

Processing and Monitoring

Effluents are strictly controlled to ensure radioactivity released to the environment is minimal and does not exceed regulatory limits. Effluent control includes the operation of monitoring systems, in-plant and environmental sampling and analysis programs, quality assurance programs for effluent and environmental programs, and procedures covering all aspects of effluent and environmental monitoring.

The radioactive waste treatment systems at Davis-Besse are designed to collect and process the liquid and gaseous wastes that contain radioactivity. For example, the Waste Gas Decay Tanks allow radioactivity in gases to decay prior to release via the Station Vent.

Radioactivity monitoring systems are used to ensure that all releases are below regulatory limits. These instruments provide a continuous indication of the radioactivity present. Each instrument is equipped with alarms and indicators in the control room. The alarm setpoints are low enough

to ensure the limits will not be exceeded. If a monitor alarms, a release from a tank is automatically stopped.

All wastes are sampled prior to release and analyzed to identify the specific concentrations of radionuclides. Sampling and analysis provides a more sensitive and precise method of determining effluent composition than can be accomplished with monitoring instruments.

A meteorological tower is located in the southwest sector of the Station which is linked to computers that record its data. Coupled with the effluent release data, the meteorological data are used to calculate the dose to the public. Beyond the plant, devices maintained in conjunction with the Radiological Environmental Monitoring Program continuously sample the air in the surrounding environment. Frequent samples of other environmental media, such as water and vegetation, are taken to determine if buildup of deposited radioactive material has occurred in the area.

Exposure Pathways

Radiological exposure pathways define the methods by which people may become exposed to radioactive material. The major pathways of concern are those which could cause the highest calculated radiation dose. These projected pathways are determined from the type and amount of radioactive material released, the environmental transport mechanism, and the use of the environment. The environmental transport mechanism includes consideration of physical factors, such as the hydrological (water) and meteorological (weather) characteristics of the area. An annual average of the water flow, wind speed, and wind direction are used to evaluate how the radionuclides will be distributed in an area for gaseous or liquid releases. An important factor in evaluating the exposure pathways is the use of the environment. Many factors are considered such as dietary intake of residents, recreational use of the area, and the locations of homes and farms in the area.

The external and internal exposure pathways considered are shown in Figure 27. The release of radioactive gaseous effluents involves pathways such as external whole body exposure, deposition of radioactive material on plants, deposition on soil, inhalation by animals destined for human consumption, and inhalation by humans. The release of radioactive material in liquid effluents involves pathways such as drinking water, fish, and direct exposure from the lake at the shoreline while swimming.

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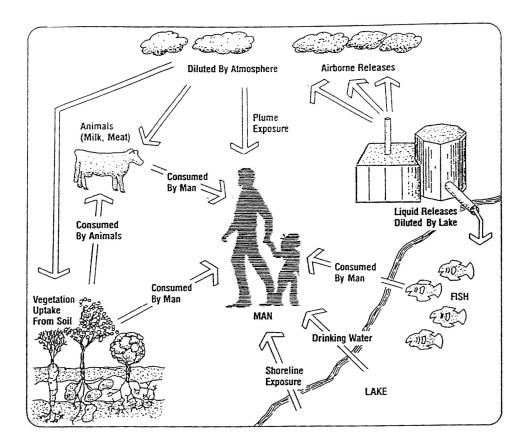


Figure 27: The exposure pathways shown here are monitored through the Radiological Environmental Monitoring Program (REMP) and are considered when calculating doses to the public.

Although radionuclides can reach humans by many different pathways, some result in more dose than others. The critical pathway is the exposure route that will provide, for a specific radionuclide, the greatest dose to a population, or to a specific group of the population called the critical group. The critical group may vary depending on the radionuclides involved, the age and diet of the group, or other cultural factors. The dose may be delivered to the whole body or to a specific organ. The organ receiving the greatest fraction of the dose is called the critical organ.

Dose Assessment

Dose is the energy deposited by radiation in an exposed individual. Whole body exposure to radiation involves the exposure of all organs. Most background exposures are of this form. Both radioactive and non-radioactive elements can enter the body through inhalation or ingestion. When they do, they are usually not evenly distributed. For example, Iodine concentrates in the thyroid gland, Cesium collects in muscle and liver tissue, and Strontium collects in the bone.

The total dose to organs from a given radionuclide depends on the amount of radioactive material present in the organ and the length of time that the radionuclide remains there. Some radionuclides remain for short times due to their rapid radioactive decay and/or elimination rate from the body. Other radionuclides may remain in the body for longer periods of time.

The dose to the general public in the area surrounding Davis-Besse is calculated for each liquid or gaseous release. The dose due to radioactive material released in gaseous effluents is calculated using factors such as the amount of radioactive material released, the concentration beyond the site boundary, the average weather conditions at the time of the release, the locations of exposure pathways (cow milk, goat milk, vegetable gardens and residences), and usage factors (inhalation, food consumption). The dose due to radioactive material released in liquid effluents is calculated by using factors such as the total volume of the liquid released, the total volume of dilution water (near field dilution), and usage factors, such as water and fish consumption, and shoreline and swimming factors. These calculations produce a conservative estimation of the dose.

Results

The Radioactive Effluent Release Report is a detailed listing of radioactivity released from the Davis-Besse Nuclear Power Station during the period from January 1 through December 31, 2020.

- Summation of the quantities of radioactive material released in gaseous and liquid effluents (Tables 14-18)
- Summation of the quantities of radioactive material contained in solid waste packaged and shipped for offsite disposal at federally approved sites (Table 19)

During this reporting period, the maximum individual offsite dose due to radioactivity released in effluents was:

Liquid Effluents:

- 1.10E-03 mrem, maximum individual whole body dose
- 1.16E-03 mrem, maximum individual significant organ dose (Liver)

Gaseous Effluents:

Noble Gas:

- 7.50E-05 mrem, whole body
- 1.13E-04 mrad, skin

Iodine - 131, Tritium, and Particulates with Half-Lives greater than 8 Days:

- 8.76E-03 mrem, whole body dose
- 2.64E-02 mrem, significant organ dose (Liver)

Carbon-14:

- 1.12E-01 mrem, whole body
- 5.35E-01 mrem, significant organ dose (Bone)

These doses are a small fraction of the limits set by the NRC in the Davis-Besse ODCM. Additional normal release pathways from the secondary system exist. For gaseous effluents, these pathways include the Auxiliary Feed Pump Turbines exhaust, the main steam safety valve system and the atmospheric vent valve system, steam packing exhaust and main feed water. For liquid effluents, the additional pathways include the Turbine Building drains via the settling basins. Releases via these pathways are included in the normal release tables in this report.

Regulatory Limits

Gaseous Effluents

In accordance with Offsite Dose Calculation Manual, dose rates due to radioactivity released in gaseous effluents from the site to areas at and beyond the site boundary shall be limited to the following:

Noble gases:

- Released at a rate equal to or less than 500 mrem TEDE per year.
- Released at a rate such that the total dose to the skin will be less than or equal to 3000 mrem per year.

Iodine-131, tritium, and all radionuclides in particulate form with half-lives greater than 8 days:

• Released at a rate such that the total dose to any organ will be less than or equal to 1500 mrem per year.

In accordance with 10CFR50, Appendix I, Sec. IIB. 1, air dose due to radioactivity released in gaseous effluents to areas at and beyond the site boundary shall be limited to the following:

• Less than or equal to 10 mrad total for gamma radiation and less than or equal to 20 mrad total for beta radiation in any calendar year.

In accordance with 10CFR50, Appendix I, Sec. IIC, dose to a member of the public from Iodine-131, tritium, and all radionuclides in particulate form with half-lives greater than 8 days in gaseous effluents released to areas at and beyond the site boundary shall be limited to the following:

• Less than or equal to 15 total mrem to any organ in any calendar year.

Carbon-14

Carbon-14 (C-14) is calculated based on plant power production. The C-14 doses are based on a calculated value of 2.94 Ci of C-14 in the form of CO₂ released from Davis-Besse through the Station Vent during 2020.

Liquid Effluents

In accordance with 10CFR50, Appendix I, Sec IIA, the dose or dose commitment to a member of the public from radioactivity in liquid effluents released to unrestricted areas shall be limited to accumulated doses of:

• Less than or equal to 3 mrem to the total body and less than or equal to 10 mrem to any organ in any calendar year.

Effluent Concentration Limits

The Effluent Concentration Limits (ECs) for gaseous and liquid effluents at and beyond the site boundary are listed in 10CFR20, Appendix B, Table 2, Columns 1 and 2, with the most restrictive EC being used in all cases. For dissolved and entrained gases in liquids, the EC of 2.0E-04 uCi/ml is applied. This EC is based on the Xe-135 DAC of 1E-05 uCi/ml of air (submersion dose) con-

verted to an equivalent concentration in water as discussed in the International Commission on Radiological Protection (ICRP), Publication 2.

Average Energy

The Davis-Besse ODCM limits the dose equivalent rates due to the release of fission and activation products to less than or equal to 500 mrem per year to the total body and less than or equal to 3000 mrem per year to the skin. Therefore, the average beta and gamma energies (E) for gaseous effluents as described in Regulatory Guide 1.21, "Measuring, Evaluating, and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water-Cooled Nuclear Power Plants" are not applicable.

Measurements of Total Activity

Fission and Activation Gases:

These gases, excluding tritium, are collected in Marinelli beakers specially modified for gas sampling, in steel flasks, or in glass vials, and are counted on a Germanium detector for principal gamma emitters. Radionuclides detected are quantified via gamma spectroscopy.

Tritium gas is collected using a bubbler apparatus and counted by liquid scintillation.

Iodine

Iodine is collected on a charcoal cartridge filter and counted on a germanium detector. Specific quantification of each iodine radionuclide is performed using gamma spectroscopy.

Particulates

Particulates are collected on filter paper and counted on a Germanium detector. Specific quantification of each radionuclide present on the filter paper is performed by using gamma spectroscopy.

Liquid Effluents

Liquid effluents are collected in a Marinelli beaker and counted on a germanium detector. Quantification of each gamma-emitting radionuclide present in liquid samples is via gamma spectroscopy. Tritium in the liquid effluent is quantified by counting an aliquot of a composite sample in a liquid scintillation counting system.

Batch Releases

Liquid from 1/1/20 through 12/31/20

1. Number of batch releases: 63

Total time period for the batch releases:
 Maximum time period for a batch release:
 Minimum time period for a batch release:
 Average time period for a batch release:
 109.8 hours
 minutes
 Average time period for a batch release:
 104.6 minutes

Gaseous from 1/1/20 through 12/31/20

1. Number of batch releases:

Total time period for the batch releases:
 Maximum time period for a batch release:
 Minimum time period for a batch release:
 Average time period for a batch release:
 Total time period for a batch release:
 Minimum time period for a batch release:
 Total time period for a batch release:
 Minimum time period for a batch release:
 Total time period for a batch release:

Abnormal Releases

There were no abnormal gaseous releases of radioactivity from the station during 2020.

There were no abnormal liquid releases of radioactivity from the station during 2020.

Releases from the ISFSI

There were no identified effluents from this facility in 2020 and no increase in the dose to the public was observed or calculated from the ISFSI.

Percent of ODCM Release Limits

The following table presents the ODCM annual dose limits and the associated offsite dose to the public, in percent of limits, for January 1, 2020 through December 31, 2020.

			PERCENT OF	
SPECIFICATION	ANNUAL DOSE	LIMIT	LIMIT	
Report Period: January 1, 2020 - Dece	ember 31, 2020 (gaseou	s)		
Noble gases (gamma)	6.82E-05 mrad	10 mrad	6.82E-04	
Noble gases (beta)	1.13E-04 mrad	20 mrad	5.65E-04	
I-131, tritium and particulates	8.76E-03 mrem	15 mrem	5.84E-02	
C-14	5.35E-01 mrem	20 mrem	2.67E+00	
Report Period: January 1, 2020 - December 31, 2020 (liquid)				
Total Body	1.10E-03 mrem	3 mrem	3.67E-02	
Organ (Liver)	1.16E-03 mrem	10 mrem	1.16E-02	

Sources of Input Data

- Water Usage: Survey of Water Treatment Plants (DSR-95-00347)
- 0-50 mile, milk, vegetable production, and population data was taken from 1982 Annual Environmental Operating Report entitled, "Evaluation of Compliance with Appendix I to 10CFR50: Updated Population, Agricultural, Meat Animal, and Milk Production Data Tables for 1982". This evaluation was based on the 1980 Census, the Agricultural Ministry of Ontario 1980 report entitled "Agricultural Statistics and Livestock Marketing Account", the Agricultural Ministry of Ontario report entitled "Agricultural Statistics for Ontario, Publication 21, 1980," the Michigan Department of Agriculture report entitled "Michigan Agricultural Statistics, 1981", and the Ohio Crop Reporting Service report entitled "Ohio Agricultural Statistics, 1981".
- Gaseous and liquid source terms: Tables 14 through 18 of this report.

- Location of the nearest individuals and pathways by sector within 5 miles, see Land Use Census Section of the report.
- Population of the 50-mile Radius of Davis-Besse (DSR-95-00398 and DBNPS Population Update Analysis 2015, KLD Engineering, P.C.).

Dose to Public Due to Activities Inside the Site Boundary

In accordance with ODCM Section 7.2, the Radioactive Effluent Release Report includes an assessment of radiation doses from radioactivity released in liquid and gaseous effluents to members of the public from activities inside the site boundary.

The Pavilion and Training Center pond have, on occasion, been made accessible to employees and their families. The Pavilion may be accessible to the public for certain social activities. The Training Center pond allows employees and their families to periodically fish on site under a "catchand-release" program; therefore the fish pathway is not considered applicable. Considering the frequency and duration of the visits, the resultant dose would be a small fraction of the calculated maximum site boundary dose. For purposes of assessing the dose to members of the public in accordance with ODCM Section 7.2, the following exposure assumptions are used:

- Exposure time for maximally-exposed visitors is 250 hours (1 hr/day, 5 day/ week, 50 wk/yr)
- Annual average meteorological dispersion (conservative, default use of maximum site boundary dispersion).
- For direct "shine" from the Independent Spent Fuel Storage Installation (ISFSI), default use of the maximum dose rate for a completed (full) ISFSI, at a distance of 950 feet. ODCM equations may be used for calculating the dose to a member of the public for activities inside the site boundary. This dose would be at least a factor of 35 times less than the maximum site boundary air dose, as calculated in the ODCM. Nowhere onsite are areas accessible to the public where exposure to liquid effluents could occur. Therefore, the modeling of the ODCM conservatively estimates the maximum potential dose to members of the public.
- The Old Steam Generator Storage Facility (OSGSF) provides long-term storage for two Once Through Steam Generators, two Reactor Coolant System Hot Leg Piping sections, one Reactor Vessel Closure Head (with Control Rod Drive Mechanisms and Service Support Structure). The OSGSF is designed so that dose rates at the exterior of the facility are within station designated dose rate limits which are more restrictive than the dose rate limits of 10CFR20.

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Non-Functional Radioactive Effluent Monitoring Equipment

ODCM Table 2-1 Radioactive Liquid Effluent Monitoring Instrumentation

Instrument	Required Channels	Available Channels	Duration Non-	Comments	
			Functional		
F200, Cooling Tower Makeup Flow to Collec- tion Box	1	0	272 days	F200 computer point is an input to F201, Col tion Box Outlet Flow to the Lake. The releprocedure instructs setting F200 flow to 0 g for conservatism during releases.	
FT4687, Storm Sewer Flow Transmitter	1	0	44 days	With less than the number of required channels FUNCTIONAL, effluent releases via this pathway may continue provided the flow rate is estimated at least once per 4 hours during actual releases. Pump curves may be used to estimate flow. The Training Center Pond outlet was isolated during periods of non-release to the Toussaint River. Flow estimates were used as directed by the ODCM during controlled releases.	

ODCM Table 3-1 Radioactive Gaseous Effluent Monitoring Instrumentation

Instrument	Required	Available	Duration	Comments
	Channels	Channels	Non-	
			Functional	
RE1822A and RE1822B, Waste Gas Decay Tank Monitors	1	0	100 days	With less than the number of required channels Functional, the contents of the tank may be released to the environment provided that prior to initiating the release: At least two independent samples are analyzed in accordance with ODCM Table 3-3. At least two independent verifications of the release rate calculations are performed. At least two independent verifications of the discharge valving are performed.
				There were no gaseous effluent releases via this pathway while RE1822A and RE1822B were non-functional.

Changes to the Offsite Dose Calculation Manual (ODCM) and the Process Control Program (PCP)

Revision 38 of the ODCM was issued in November 2020 to incorporate results from the 2020 Land Use Census. A garden previously located in the South-Southeast sector 1.8 miles from the station was discontinued. The Critical Pathway did not change from the 2019 census.

There were no changes to the Process Control Program during 2020.

Borated Water Storage Tank Radionuclide Concentrations

During 2020, the Borated Water Storage Tank's sum of limiting fractions of radionuclides concentration, a unitless number, did not exceed the ODCM Section 2.2.4 limit of 1.

Table 14
Gaseous Effluents - Summation of All Releases

Nuclide	Unit	1st Qtr 2020	2nd Qtr 2020	3rd Qtr 2020	4th Qtr 2020	Est. Total % Error
Fission and Activation Gases Total Release	Ci	1.85E-01	0.00E+00	0.00E+00	0.00E+00	2.5E+01
Average Release Rate for Period	uCi/sec	2.24E-02	N/A	N/A	N/A	2.515+01
Percent of applicable limits	N/A					
<u>Iodines</u>						
Total Iodines (I-131) Average Release Rate for Period	Ci uCi/sec	5.59E-03 6.80E-04	0.00E+00 N/A	0.00E+00 N/A	0.00E+00 N/A	2.5E+01
Percent of applicable limits	N/A	0.80L-04	IV/A	IV/A	IV/A	
<u>Particulates</u>						
Particulates with half-lives greater than 8 days	Ci	0.00E+00	1.60E-03	0.00E+00	0.00E+00	2.5E+01
Average Release Rate for Period	uCi/sec	N/A	7.34E-05	N/A	N/A	
Percent of applicable limits	N/A					
Gross Alpha Activity	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.5E+01
<u>Tritium</u>						
Total Release	Ci	7.50E+00	9.57E+00	6.62E+00	7.76E+00	2.5E+01
Average Release Rate for Period Percent of applicable limits	uCi/sec N/A	9.12E-01	4.40E-01	8.45E-01	9.60E-01	
Carbon-14						
Total Release	Ci	6.88E-01	9.79E-01	9.79E-01	9.79E-01	

Note: The average release rate is taken over the entire quarter, not over the time the time period of the releases.

Table 15
Gaseous Effluents - Ground Level Releases - Batch Mode

Nuclide	Unit	1st Qtr 2020 ⁽¹⁾	2nd Qtr 2020 ⁽¹⁾	3rd Qtr 2020 ⁽¹⁾	4th Qtr 2020 ⁽¹⁾
Fission Gases					
Kr-85	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Kr-85m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Kr-87	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Kr-88	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-133	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-135	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-135m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-138	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for Period:		N/A	N/A	N/A	N/A
<u>Iodines</u>					
I-131 I-133 I-135	Ci Ci Ci	<lld <lld <lld< td=""><td><lld <lld <lld< td=""><td><lld <lld <lld< td=""><td><lld <lld <lld< td=""></lld<></lld </lld </td></lld<></lld </lld </td></lld<></lld </lld </td></lld<></lld </lld 	<lld <lld <lld< td=""><td><lld <lld <lld< td=""><td><lld <lld <lld< td=""></lld<></lld </lld </td></lld<></lld </lld </td></lld<></lld </lld 	<lld <lld <lld< td=""><td><lld <lld <lld< td=""></lld<></lld </lld </td></lld<></lld </lld 	<lld <lld <lld< td=""></lld<></lld </lld
Total for Period:		N/A	N/A	N/A	N/A
Particulates and Tritium					
H-3	Ci	1.16E-04	1.51E-04	2.15E-04	2.54E-04
Sr-89	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Sr-90	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Cs-134	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Cs-137	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ba-La-140	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for Period:		1.16E-04	1.51E-04	2.15E-04	2.54E-04

⁽¹⁾ LLDs for Ground Level Gaseous Releases – Batch Mode are listed on page 87.

Table 15 (Continued) Gaseous Effluents - Ground Level Releases Continuous Mode

Nucli	ido	Unit	1st Qtr 2020 ⁽²⁾	2nd Qtr 2020 ⁽²⁾	3rd Qtr 2020 ⁽²⁾	4th Qtr 2020 ⁽²⁾
Nucli	iue	Unit	2020	2020	2020	2020
Fissio	on Gases					
	Kr-85	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Kr-85m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Kr-87	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Kr-88	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Xe-133	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Xe-135	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Xe-135m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Xe-138	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total	for Period:		N/A	N/A	N/A	N/A
<u>Iodin</u>	<u>ies</u>					
	I-131	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	I-133	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	I-135	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total	for Period:		N/A	N/A	N/A	N/A
<u>Parti</u>	culates and Tritium					
	H-3	Ci	5.26E-04	7.94E-04	1.15E-03	1.57E-03
	Sr-89	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Sr-90	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Cs-134	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Cs-137	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Ba-La-140	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total	for Period:		5.26E-04	7.94E-04	1.15E-03	1.57E-03

⁽²⁾ LLDs for Ground Level Gaseous Releases – Continuous Mode are listed on page 87.

Table 15 (Continued)
Gaseous Effluents - Ground Level Releases
LLDs for Continuous^b and Batch^a Mode

Ar-41	<1.53E-08	$\mu \text{Ci/ml}$
Kr-85	<2.42E-06	μCi/ml
Kr-85m	<7.30E-09	μCi/ml
Kr-87	<2.68E-08	μCi/ml
Kr-88	<2.86E-08	μCi/ml
Xe-133	<1.28E-08	μCi/ml
Xe-133m	<5.43E-08	μCi/ml
Xe-135	<7.17E-09	μCi/ml
Xe-135m	<2.58E-07	μCi/ml
Xe-138	<5.50E-07	μCi/ml
I-131	<8.91E-15	μCi/ml
I-133	<8.93E-15	μCi/ml
I-135	<5.17E-14	μCi/ml
Cs-134	<5.53E-15	μCi/ml
Cs-137	<1.35E-14	μCi/ml
Ba-140	<3.09E-14	μCi/ml
La-140	<1.59E-14	μCi/ml
Sr-89	<1.30E-15	μCi/ml
Sr-90	<4.80E-16	μCi/ml
Mn-54	<1.12E-14	μCi/ml
Fe-59	<1.80E-14	μCi/ml
Co-58	<1.21E-14	μCi/ml
Co-60	<4.53E-15	μCi/ml
Zn-65	<3.31E-14	μCi/ml
Mo-99	<8.75E-14	μCi/ml
Ce-141	<1.26E-14	$\mu \text{Ci/ml}$

a Auxiliary Feed Pump Turbine Exhaust, Main Steam Safety Valves, and Auxiliary Boiler Outage Release are listed as batch release.

b Atmospheric Vent Valve weepage and Steam Packing Exhauster are continuous releases.

Table 16
Gaseous Effluents - Mixed Mode Releases
Batch Mode

Nuclide		Unit	1st Qtr 2020 ⁽¹⁾	2nd Qtr 2020 ⁽¹⁾	3rd Qtr 2020 ⁽¹⁾	4th Qtr 2020 ⁽¹⁾
Fission G	ases					
	Ar-41	Ci	8.17E-2	<lld< th=""><th><lld< th=""><th><lld< th=""></lld<></th></lld<></th></lld<>	<lld< th=""><th><lld< th=""></lld<></th></lld<>	<lld< th=""></lld<>
	Kr-85	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Kr-85m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Kr-87	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Kr-88	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Xe-131m	Ci	8.36E-5	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Xe-133	Ci	9.57E-2	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Xe-133m	Ci	1.58E-4	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Xe-135	Ci	6.95E-3	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Xe-135m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Xe-138	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for	Period:		1.85E-01	0.00E+00	0.00E+00	0.00+00
*Iodines						
	I-131	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	I-133	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	I-135	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for	Period:	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*D4'	. 4 0 T. 24					
"Particul	ates & Tritium	C:	4 02E 02	1 11E 02	4 COE 04	0.005+00
	H-3	Ci C:	4.92E-02	1.11E-03	4.68E-04	0.00E+00
	Sr-89 Sr-90	Ci Ci	<lld <lld< td=""><td><lld <lld< td=""><td><lld <lld< td=""><td><lld <lld< td=""></lld<></lld </td></lld<></lld </td></lld<></lld </td></lld<></lld 	<lld <lld< td=""><td><lld <lld< td=""><td><lld <lld< td=""></lld<></lld </td></lld<></lld </td></lld<></lld 	<lld <lld< td=""><td><lld <lld< td=""></lld<></lld </td></lld<></lld 	<lld <lld< td=""></lld<></lld
		Ci Ci				
	Cs-134		<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Cs-137	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
TT 4 1 6	Ba-La-140	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for	Perioa:	Ci	4.92E-02	1.11E-03	4.68E-04	0.00E+00

⁽¹⁾ LLDs for Mixed Mode Gaseous Releases – Batch Mode are listed on page 90.

^{*} Release of iodines and particulates are quantified in Mixed Mode Releases, Continuous Mode (Unit Station Vent)

Table 16 (Continued)
Gaseous Effluents - Mixed Mode Releases - Continuous Mode

	1st Qtr	2nd Qtr	3rd Ote	40.00
Unit	2020 ⁽²⁾	2020 ⁽²⁾	3rd Qtr 2020 ⁽²⁾	4th Qtr 2020 ⁽²⁾
Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
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	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ci	5.59E-03	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
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	5.59E-03	0.00E+00	0.00E+00	0.00E+00
Ci	<lld< td=""><td>1.60E-03</td><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	1.60E-03	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
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Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
			<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ci	7.45E+00	9.57E+00	6.62E+00	7.76E+00
Ci	7.45E+00	9.57E+00	6.62E+00	7.76E+00
Ci	6.88E-01	9.79E-01	9.79E-01	9.79E-01
	Ci C	Ci	Unit 2020(2) 2020(2) Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> Ci <l< td=""><td>Unit 2020⁽²⁾ 2020⁽²⁾ 2020⁽²⁾ Ci <lld< td=""> <lld< td=""> <lld< td=""> Ci</lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></td></l<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<>	Unit 2020 ⁽²⁾ 2020 ⁽²⁾ 2020 ⁽²⁾ Ci <lld< td=""> <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> <lld< td=""> Ci <lld< td=""> <lld< td=""> <lld< td=""> Ci</lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<></lld<>

⁽²⁾ LLDs for Mixed Mode Gaseous Releases – Continuous Mode are listed on page 90.

Table 16 (Continued)
LLDs for Gaseous Effluents - Mixed Mode Releases

	Continuous M	Iode ^a		Batch Mode ^a	
Kr-85	<2.42E-06	μCi/ml	Ar-41	<1.75E-06	μCi/ml
Kr-85m	<7.30E-09	μCi/ml	Kr-85m	<9.48E-07	μCi/ml
Kr-87	<2.68E-08	μCi/ml	Kr-87	<3.75E-06	μCi/ml
Kr-88	<2.86E-08	μCi/ml	Kr-88	<3.34E-06	μCi/ml
Xe-133	<1.28E-08	μCi/ml	Xe-133	<1.41E-06	uCi/ml
Xe-133m	<5.43E-08	μCi/ml	Xe-133m	<6.43E-06	μCi/ml
Xe-135	<7.17E-09	μCi/ml	Xe-135	<7.77E-07	μCi/ml
Xe-135m	<2.58E-07	μCi/ml	Xe-135m	<1.91E-05	μCi/ml
Xe-138	<5.50E-07	μCi/ml	Xe-138	<3.60E-05	μCi/ml
I-131	<8.91E-15	$\mu Ci/ml$	I-131	<1.32E-06	μCi/ml
I-133	<8.93E-15	$\mu Ci/ml$	I-133	<1.30E-06	μCi/ml
I-135	<5.17E-14	μCi/ml	I-135	<4.60E-06	μCi/ml
Cs-134	<5.53E-15	μCi/ml	Sr-89	<1.30E-15	μCi/ml
Cs-137	<1.35E-14	μCi/ml	Sr-90	<4.80E-16	μCi/ml
Ba-140	<3.09E-14	μCi/ml	Cs-134	<1.10E-06	μCi/ml
La-140	<1.59E-14	μCi/ml	Cs-137	<1.41E-06	μCi/ml
Sr-89	<1.30E-15	μCi/ml	Ba-140	<4.10E-06	μCi/ml
Sr-90	<4.80E-16	uCi/ml	La-140	<1.25E-06	uCi/ml
Mn-54	<1.12E-14	μCi/ml	Kr-85	<3.24E-04	uCi/ml
Fe-59	<1.80E-14	μCi/ml	Xe-131m	<1.48E-05	uCi/ml
Co-58	<1.21E-14	μCi/ml			
Co-60	<4.53E-15	μCi/ml			
Zn-65	<3.31E-14	μCi/ml			
Mo-99	<8.75E-14	μCi/ml			
Ce-141	<1.26E-14	μCi/ml			

a These radionuclides were not identified in every quarter in concentrations above the lower limit of detection (LLD).

Table 17
Liquid Effluents - Summation of All Releases

	aciits i	Julilliatio	1 01 1111 1	COTOGOGO		_
Туре	Unit	1st Qtr 2020	2nd Qtr 2020	3rd Qtr 2020	4th Qtr 2020	Est. Total % Error
Fission and Activation Products						
Total Release (without Tritium, Gases, Alpha)	Ci	3.71E-03	1.38E-04	3.36E-06	9.59E-05	2.0E+01
Average Diluted Concentration During Period ^a	μCi/ml	3.29E-10	1.11E-11	2.80E-13	7.92E-12	
Percent of 10CFR20 Limit	%	2.28E-05	8.39E-06	9.78E-08	1.06E-06	
<u>Tritium</u>						
Total Release	Ci	3.26E+01	4.97E+01	3.66E+01	8.49E+01	2.0E+01
Average Diluted Concentration During Period ^a	μCi/ml	2.89E-06	4.02E-06	3.05E-06	7.01E-06	
Percent of 10CFR20 Limit	%	2.02E-02	2.81E-02	2.13E-02	4.89E-02	
Dissolved and Entrained Gases						
Total Release	Ci	2.90E-06	0.00E+00	0.00E+00	0.00E+00	2.0E+01
Average Diluted Concentration During Period ^a	μCi/ml	2.57E-13	0.00E+00	0.00E+00	0.00E+00	
Percent of 10CFR20 Limit	%	8.96E-09	0.00E+00	0.00E+00	0.00E+00	
Gross Alpha Total Release	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.0E+01
Volume of Waste Released (prior to dilution)						
Batch	liter	5.29E+05	6.14E+05	3.31E+05	2.77E+05	2.0E+01
Continuous	liter	9.66E+07	7.05E+07	8.55E+07	8.95E+07	2.0E+01
Volume of Dilution Water						
Batch	liter	1.45E+08	2.53E+08	1.88E+08	1.69E+08	2.0E+01
Continuous	liter	1.10E+10	1.20E+10	1.17E+10	1.19E+10	2.0E+01
Total Volume of Water Released	liter	1.13E+10	1.24E+10	1.20E+10	1.21E+10	

^a Tritium and alpha may be found in both continuous and batch releases. Average diluted concentrations are based on total volume of water released during the quarter. Fission and Activation products and Dissolved and Entrained Gases are normally only detected in batch releases.

Table 18
Liquid Effluents - Nuclides Released in Batch Releases

Nuclide	Unit	1st Qtr 2020 ⁽¹⁾	2nd Qtr 2020 ⁽¹⁾	3rd Qtr 2020 ⁽¹⁾	4th Qtr 2020 ⁽¹⁾
Fission and Activation P					
Cr-51	Ci	1.07E-05	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Mn-54	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Fe-55 ^b	Ci	2.80E-03	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Co-57	Ci	<lld< td=""><td>5.50E-07</td><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	5.50E-07	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Co-58	Ci	1.46E-06	5.96E-05	3.36E-06	4.98E-06
Fe-59	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Co-60	Ci	<lld< td=""><td>8.51E-06</td><td><lld< td=""><td>2.12E-06</td></lld<></td></lld<>	8.51E-06	<lld< td=""><td>2.12E-06</td></lld<>	2.12E-06
Ni-63	Ci	6.87E-04	6.02E-05	<lld< td=""><td>8.88E-05</td></lld<>	8.88E-05
Zn-65	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Sr-89 ^b	Ci	1.00E-05	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Sr-90 ^b	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Sr-92	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Nb-95	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Zr-95	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Nb-97	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Zr-97	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Mo-99	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Tc-99m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ru-103	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ru-106	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ag-110m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Sb-122	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Te-123M	Ci	6.77E-07	3.22E-07	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Sb-124	Ci	<lld< td=""><td>1.57E-07</td><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	1.57E-07	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Sb-125	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
I-131	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Te-132	Ci	5.53E-07	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Cs-134	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Cs-137	Ci	<lld< td=""><td>8.37E-06</td><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	8.37E-06	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Cs-138	Ci	2.00E-04	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ba-140	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
La-140	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ce-141	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for Period	Ci	3.71E-03	1.38E-04	3.36E-06	9.59E-05

⁽¹⁾ LLDs for Liquid Releases – Batch Mode are listed on page 95.

Table 18 (continued)
Liquid Effluents - Nuclides Released In Batch Releases

Nuclide	Unit	1st Qtr 2020 ⁽¹⁾	2nd Qtr 2020 ⁽¹⁾	3rd Qtr 2020 ⁽¹⁾	4th Qtr 2020 ⁽¹⁾
H-3	Ci	3.26E+01	4.97E+01	3.66E+01	8.49E+01
Dissolved and Entrained Gas	es				
Kr-85	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-131m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-133	Ci	2.90E-06	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-133m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-135	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for Period:	Ci	2.90E-06	0.00E+00	0.00E+00	0.00E+00

⁽¹⁾ LLDs for Liquid Releases – Batch Mode are listed on page 95.

Table 18 (continued) Liquid Effluents – Nuclides^a Released In Continuous Releases

	In Contin	uous Releases			
Nuclide	Unit	1st Qtr 2020 ⁽²⁾	2nd Qtr 2020 ⁽²⁾	3rd Qtr 2020 ⁽²⁾	4th Qtr 2020 ⁽²⁾
Fission and Activation Products					
Cr-51	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Mn-54	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Fe-59	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Co-58	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Co-60	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Zn-65	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Sr-89 ^b	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Sr-90 ^b	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Zr-95	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Mo-99	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Tc-99m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
I-131	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Cs-134	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Cs-137	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ba/La-140	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ce-141	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for Period:	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tritium	Ci	0.00E-00	0.00E+00	0.00E+00	0.00E+00
Dissolved and Entrained Gases					
Xe-133 Xe-135	Ci Ci	<lld <lld< td=""><td><lld <lld< td=""><td><lld <lld< td=""><td><lld <lld< td=""></lld<></lld </td></lld<></lld </td></lld<></lld </td></lld<></lld 	<lld <lld< td=""><td><lld <lld< td=""><td><lld <lld< td=""></lld<></lld </td></lld<></lld </td></lld<></lld 	<lld <lld< td=""><td><lld <lld< td=""></lld<></lld </td></lld<></lld 	<lld <lld< td=""></lld<></lld
Total for Period:	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00

⁽²⁾ LLDs for Liquid Releases – Continuous Mode are listed on page 95.

Table 18 (continued) Liquid Effluents – LLDs for Nuclides Released^a

Cr-51	<1.08E-07	μCi/ml	Ar-41	<2.02E-08	μCi/ml
Mn-54	<1.05E-08	μCi/ml	I-131	<1.44E-08	μCi/ml
Fe-55 ^b	<7.40E-07	μCi/ml	Xe-131m	<5.32E-07	μCi/ml
Co-57	<1.08E-08	μCi/ml	Xe-133	<3.02E-08	μCi/ml
Co-58	<1.67E-08	μCi/ml	Xe-133m	<8.28E-08	μCi/ml
Fe-59	<3.08E-08	μCi/ml	Cs-134	<1.50E-08	μCi/ml
Co-60	<1.58E-08	μCi/ml	Xe-135	<1.05E-08	μCi/ml
Zn-65	<2.99E-08	μCi/ml	Cs-137	<1.54E-08	μCi/ml
Kr-85	<3.47E-06	μCi/ml	Ba-140	<5.32E-08	μCi/ml
Sr-89 ^b	<1.90E-08	μCi/ml	La-140	<1.68E-08	μCi/ml
Sr-90 ^b	<7.60E-09	μCi/ml	Ce-141	<2.05E-08	μCi/ml
Sr-92	<2.17E-08	μCi/ml	Ce-144	<8.66E-08	μCi/ml
Zr-95	<2.58E-08	μCi/ml	Nb-97	<2.23E-08	μCi/ml
Zr-97	<1.97E-08	μCi/ml	Sb-122	<1.39E-08	μCi/ml
Tc-99m	<1.12E-08	μCi/ml	Te-123m	<1.16E-08	μCi/ml
Mo-99	<1.10E-07	μCi/ml	Ni-63	<9.20E-08	μCi/ml
Ru-103	<1.35E-08	μCi/ml			
Ru-106	<1.59E-07	μCi/ml			
Ag-110m	<1.58E-08	μCi/ml			
Sb-124	<9.90E-09	μCi/ml			
Sb-125	<4.21E-08	μCi/ml			

^a These radionuclides were not identified every quarter in concentrations above the lower limit of detection (LLD). LLDs are applicable to both batch and continuous modes due to identical sample and analysis methods.

^b Quarterly composite sample

Table 19 Solid Waste and Irradiated Fuel Shipments

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (Not irradiated fuel)

			12-month	Est. Total
1. Ty	pe of Waste	Unit	Period	Error, %
a.	Spent resins, filter sludges,	m^3		
	evaporator bottoms, etc.	Ci	N/A	N/A
b.	Dry compressible waste,	m^3	1.38 E+02	2.5E+01
	contaminated equip., etc.	Ci	4.00 E-01	2.5E+01
c.	Irradiated components,	m^3		
	control rods, etc.	Ci	N/A	N/A
d.	Filters	m^3		
		Ci	N/A	N/A
e.	Others: Spent Resin Storage	m^3		
	Tank Liquor	Ci	N/A	N/A

2. Estimate of major nuclide composition (by type of waste)

4. 19	sumate of major nucliue composition (by	type of waste,		
		<u>Type</u>	Percent (%)	Est. Error, %
a.	None			
b.	Dry compressible waste, contaminated	H^3	5.26 E+01	2.50E+01
	equipment, etc.	Co^{60}	1.65 E+01	2.50E+01
		Co^{58}	1.09 E+00	2.50E+01
		Cs^{137}	8.28 E+00	2.50E+01
		C^{14}	8.14 E+00	2.50E+01
		Ce^{144}	3.59 E+00	2.50E+01

d. None

e. None

Shipments

Number of Shipments: 2

Mode of Transportation: Truck

Destination: Energy Solutions, Oak Ridge, TN

for processing and disposal at Energy Solutions,

Clive, UT

Type of Container (Container Volume): Metal boxes 36.2 m³

Volume shipped for processing 80.4 m³

Number of Shipments: 1

Mode of Transportation: Truck

Destination: Unitech, Oak Ridge, TN

for processing and disposal at WCS,

Andrews, TX

Type of Container (Container Volume): Metal boxes 36.2 m³

Volume shipped for processing 57.6 m³

B. IRRADIATED FUEL SHIPMENTS

There were no shipments of irradiated fuel.

Onsite Groundwater Monitoring

Davis-Besse began sampling wells near the plant in 2007 as part of an industry-wide Groundwater Protection Initiative (GPI), which was established to ensure there are no inadvertent releases of radioactivity from the plant which could affect offsite groundwater supplies. In addition to several existing pre-construction era wells, sixteen new GPI monitoring wells were installed in 2007 to accomplish the monitoring required. These wells are not used for drinking water purposes and are typically sampled in the spring and fall of each year. There is a total of forty-nine groundwater wells on site that can be sampled to monitor groundwater flow and tritium concentration.

Davis-Besse's Groundwater Protection Program includes baseline annual spring and fall sampling of the sixteen monitoring wells installed in 2007. Additional wells can be sampled as needed if increased monitoring is warranted. An increasing trend of tritium in groundwater wells was identified in February 2015. The investigation determined that the most probable cause was due to construction activities surrounding removal of the Primary Water Storage Tank. Additional wells were added to the spring and fall sampling campaigns and the sampling frequency was increased to quarterly for selected wells to closely monitor and trend tritium values in vulnerable areas of the site. A decreasing trend in tritium concentration has been observed since 2016. In the third quarter of 2017, Davis-Besse returned to semi-annual sampling (spring and fall) after all wells were less than 2,000 pCi/L for three consecutive quarters. All were less than 1000 pCi/L in 2020. 2020 groundwater well sample results are presented in Table 20 and a historical trend is shown in Figure 28.

In April 2017, Environmental Resources Management completed a model update of the site hydrology. The scope of the study was to determine the impact that construction of the Emergency Feedwater Facility (EFWF) had on groundwater flow at DBNPS and to evaluate if the Intake Canal is still the discharge location for site groundwater. The study concluded that the presence of the new EFWF does not appear to significantly impact groundwater flow for the site. Overall site-wide groundwater flow remains in a west to east direction, with groundwater flowing around the EFWF foundation. While wells MW-22S/D were removed during the EFWF project, potential leaks or spills west of the Power Block would still be detected by other existing wells. Groundwater flow is discharging to the Intake Canal. Therefore, potential leaks or spills of licensed material originating from Davis-Besse would be captured by pumping water from the Intake Canal as part of normal plant operations.

Table 20 2020 Groundwater Tritium Results

Year	2020			
	May	October		
Well No.	[H-3], pCi/l	[H-3], pCi/l		
MW-100A	< 160	< 158		
MW-100B	< 160	163		
MW-100C	201	< 158		
MW-101A	< 160	< 158		
MW-101B	174	< 158		
MW-101C	Not Required	158		
MW-102A	< 160	< 158		
MW-102B	451	< 158		
MW-102C	Not Required	< 158		
MW-103A	214	167		
MW-103B	342	501		
MW-103C	Not Required	< 157		
MW-104A	< 160	< 157		
MW-104B	297	< 157		
MW-104C	< 160	355		
MW-105A	442	428		
MW-14S	380	320		
MW-18S	639	660		
MW-20S	< 160	188		
MW-21S	201	176		
MW-30S	324	296		
MW-34S	264	316		
MW-37S	170	188		

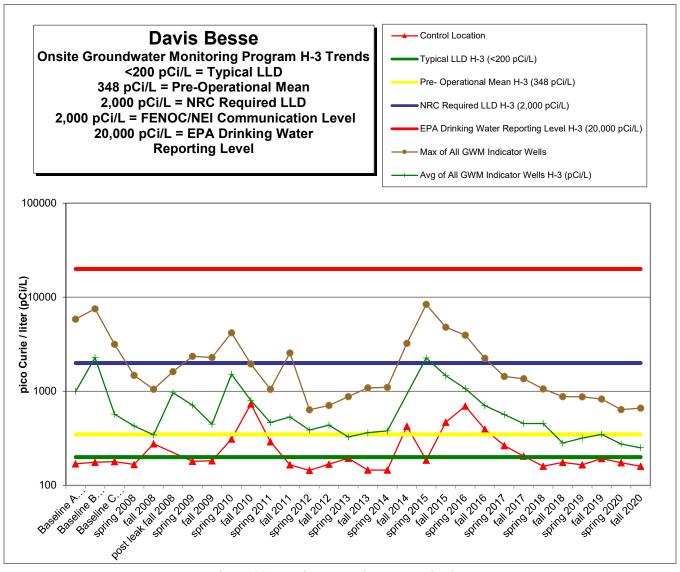


Figure 28 - Onsite Groundwater Monitoring

Summary of Onsite Spills and Notifications

There were no identified onsite spills during 2020.

There were no groundwater well sample results during 2020 that required notifications to the State, County and local officials.

Summary of Items Added to Decommissioning Files per 10 CFR 50.75(g)

There were no elevated groundwater tritium values during 2020 and no updates to the Decommissioning Files per 10 CFR 50.75(g).

Table 21 Doses Due to Gaseous Releases for January through December 2020

Maximum Individual Dose Due to I-131, H-3 and Particulates with Half-Lives Greater than 8 days.

Whole Body Dose 8.76E-03 mrem

Significant Organ Dose (Liver) 2.64E-02 mrem

Maximum Individual Dose Due to Noble Gas

Whole Body Dose 7.50E-05 mrem

Skin Dose 1.13E-04 mrad

Maximum Individual Dose Due to C-14

Whole Body Dose 1.12E-01 mrem

Significant Organ Dose (Bone) 5.35E-01 mrem

Population Dose Due to I-131, H-3 and Particulates with Half-Lives Greater than 8 days.

Total Integrated Population Dose 5.42E-02 person-rem

Average Dose to Individual in Population 2.48E-05 mrem

Population Dose Due to Noble Gas

Total Integrated Population Dose 1.83E-05 person-rem

Average Dose to Individual in Population 8.38E-09 mrem

Population Dose Due to C-14

Total Integrated Population Dose 1.41E-01 person-rem

Average Dose to Individual in Population 6.46E-05 mrem

Table 22
Doses Due to Liquid Releases for January through December 2020

Maximum Individual Whole Body Dose 1.10E-03 mrem

Maximum Individual Significant Organ Dose 1.16E-03 mrem

(Liver)

Population Dose

Total Integrated Population Dose 1.66E-01 person-rem

Average Dose to Individual 7.59E-05 mrem

Table 23
Annual Dose to The Most Exposed (from all pathways) Member of the Public 2020

	ANNUAL DOSE (mrem)	40CFR190 LIMIT (mrem)	PERCENT OF LIMIT
Whole Body Dose*	, , ,	, ,	
Noble Gas	7.50E-05		
Iodine, Tritium, Particulates	8.76E-03		
C-14	1.12E-01		
Liquid	1.10E-03		
Total Whole Body Dose	1.22E-01	25	4.88E-01
Thyroid Dose Iodine, Tritium, Particulates	2.74E-02	75	3.65E-02
Skin Dose Noble Gas	1.13E-04	25	4.52E-04
Significant Organ Dose (Liver)	2.74E-02	25	1.10E-01
Significant Organ Dose (C-14) (Bone)	5.35E-01	25	2.14E+00

^{*}Direct radiation from the facility is not distinguishable from natural background and is, therefore, not included in this compilation.

Land Use Census

Program Design

Each year a Land Use Census is conducted by Davis-Besse in order to update information necessary to estimate radiation dose to the general public and to determine if any modifications are necessary to the Radiological Environmental Monitoring Program (REMP). The Land Use Census is required by Title 10 of the Code of Federal Regulations, Part 50, Appendix I and Davis-Besse Nuclear Power Station Offsite Dose Calculation Manual, Section 5, Assessment of Land Use Census Data. The Land Use Census identifies gaseous pathways by which radioactive material may reach the general population around Davis-Besse. The information gathered during the Land Use Census for dose assessment and input into the REMP ensure these programs are as current as possible. The pathways of concern are listed below:

- Inhalation Pathway Internal exposure as a result of breathing radionuclides carried in the air.
- Ground Exposure Pathway External exposure from radionuclides deposited on the ground
- **Plume Exposure Pathway** External exposure directly from a plume or cloud of radioactive material.
- Vegetation Pathway Internal exposure as a result of eating vegetables, fruit, etc. which have a build-up of deposited radioactive material or which have absorbed radionuclides through the soil.
- Milk Pathway Internal exposure as a result of drinking milk, which may contain radioactive material as a result of a cow or goat grazing on a pasture contaminated by radionuclides.

Methodology

The Land Use Census consists of recording and mapping the locations of the closest residences, dairy cattle and goats, and broad leaf vegetable gardens (greater than 500 square feet) in each meteorological sector within a five-mile radius of Davis-Besse.

The surveillance portion of the 2020 Land Use Census was performed during the months of June through August. In order to gather as much information as possible, the locations of residences, dairy cows, dairy goats, and vegetable gardens were recorded. The residences, vegetable gardens, and milk animals are used in the dose assessment program. The gardens should be at least 500 square feet in size, with at least 20% of the vegetables being broadleaf plants (such as cabbage and kale).

Each residence is tabulated as being an inhalation pathway, as well as ground and plume exposure pathways. Each garden is tabulated as a vegetation pathway.

All of the locations identified are plotted on a map (based on the U.S. Geological Survey 7.5 minute series of the relevant quadrangles) which has been divided into 16 equal sectors corresponding to the 16 cardinal compass points (Figure 29). If available, the closest residence, milk animal, and vegetable garden in each sector are determined by measuring the distance from each to the Station Vent at Davis-Besse.

Results

No new pathways were identified in the 2020 census:

SSE Sector: A garden 1.8 miles from the station was not planted in 2020.

The critical receptor is a garden in the W sector at 0.97 miles from Davis-Besse, which is unchanged from 2019.

The detailed list in Table 24 was used to update the database of the effluent dispersion model used in dose calculations. Table 24 is divided by sectors and lists the distance (in miles) of the closest pathway in each.

Table 25 provides information on pathways, critical age group, atmospheric dispersion (χ /Q) and deposition (D/Q) parameters for each sector. This information is used to update the Offsite Dose Calculation Manual (ODCM). The ODCM describes the methodology and parameters used in calculating offsite doses from radioactivity released in liquid and gaseous effluents and in calculating liquid and gaseous effluent monitoring instrumentation alarm/trip setpoints. The χ /Q and D/Q values are revised each year, as required, based on the Annual Land Use Census results.

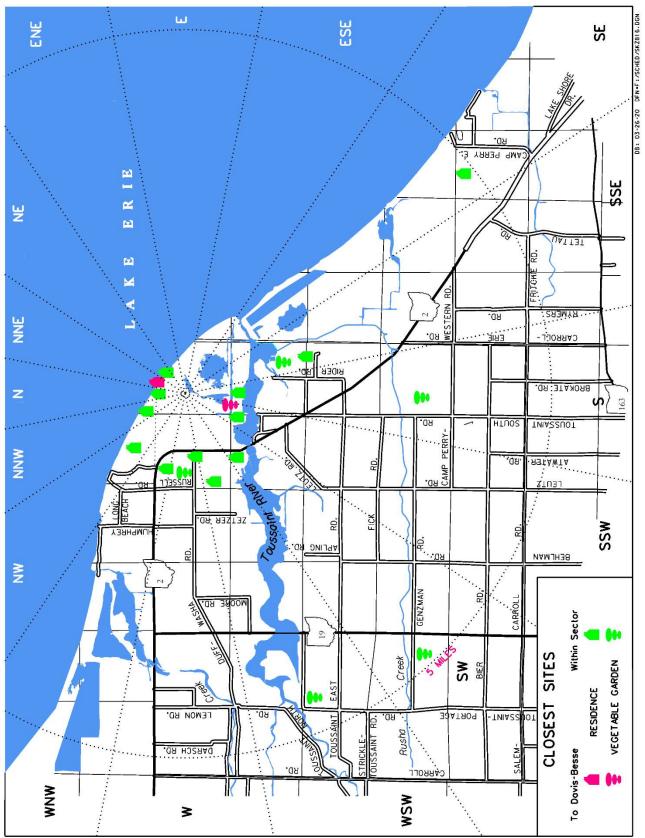


Figure 29: Land Use Census Map

Table 24 Closest Exposure Pathways Present in 2020

Sector	Distance from Station (miles)	Closest Pathways
N	0.55	Inhalation Ground Exposure Plume Exposure
NNE	0.55	Inhalation Ground Exposure Plume Exposure
NE	0.56	Inhalation Ground Exposure Plume Exposure
ENE, E, ESE	N/A	Located over Lake Erie
SE	4.94	Inhalation Ground Exposure Plume Exposure
SSE	1.82	Vegetation
SSE	0.93	Inhalation Ground Exposure Plume Exposure
S	3.10	Vegetation
S	0.68	Inhalation Ground Exposure Plume Exposure
SSW	0.70	Vegetation
SSW	0.61	Inhalation Ground Exposure Plume Exposure
SW	4.74	Vegetation
SW	0.67	Inhalation Ground Exposure Plume Exposure

Table 24 (Continued) Closest Exposure Pathways Present in 2020

Sector	Distance from Station (miles)	Closest Pathways
WSW	0.96	Inhalation Ground Exposure Plume Exposure
WSW	4.0	Vegetation
W	0.61	Inhalation Ground Exposure Plume Exposure
W	0.97	Vegetation
WNW	0.94	Inhalation Ground Exposure Plume Exposure
NW	0.93	Inhalation Ground Exposure Plume Exposure
NNW	0.80	Inhalation Ground Exposure Plume Exposure

Table 25
Pathway Locations and Corresponding
Atmospheric Dispersion (X/Q) and Deposition (D/Q)
Parameters

SECTOR	MILES	CRITICAL PATHWAY	AGE GROUP	X/Q (SEC/M³)	D/Q (M ⁻²)
N	0.55	Inhalation	Child	1.56E-06	1.34E-08
NNE	0.55	Inhalation	Child	2.09E-06	2.34E-08
NE	0.56	Inhalation	Child	1.43E-06	2.32E-08
*ENE					
* E					
*ESE					
SE	4.94	Inhalation	Child	9.69E-09	1.53E-10
SSE	1.82	Vegetation	Child	4.58E-08	8.31E-10
S	3.10	Vegetation	Child	1.75E-08	2.66E-10
SSW	0.70	Vegetation	Child	2.23E-07	4.33E-09
SW	4.74	Vegetation	Child	1.49E-08	2.11E-10
WSW	4.00	Vegetation	Child	2.66E-08	3.68E-10
W	0.97	Vegetation	Child	3.28E-07	4.56E-09
WNW	0.94	Inhalation	Child	2.84E-07	2.94E-09
NW	0.93	Inhalation	Child	2.90E-07	2.55E-09
NNW	0.80	Inhalation	Child	4.83E-07	3.78E-09

^{*}Since these sectors are located over marsh areas and Lake Erie, no ingestion pathways are present.

Non-Radiological Environmental Programs

Meteorological Monitoring¹

The Meteorological Monitoring Program at Davis-Besse is required by the Nuclear Regulatory Commission (NRC) as part of the program for evaluating the effects of routine operation of nuclear power stations on the surrounding environment. Both NRC regulations and the Davis-Besse Technical Requirements Manual provide guidelines for the Meteorological Monitoring Program. These guidelines ensure that Davis-Besse has the proper equipment, in good working order, to support the many programs utilizing meteorological data.

Meteorological observations at Davis-Besse began in October 1968. The Meteorological Monitoring Program at Davis-Besse has an extensive record of data with which to perform climate studies which are used to determine whether Davis-Besse has had any impact upon the local climate. After extensive statistical comparative research the meteorological personnel have found no impact upon local climate or short-term weather patterns.

The Meteorological Monitoring Program also provides data that can be used by many other groups and programs such as the Radiological Environmental Monitoring Program, the Emergency Preparedness Program, Site Chemistry, Plant Operations, Nuclear Security, Materials Management and Industrial Safety, as well as other plant personnel and members of the surrounding community.

The Radiological Environmental Monitoring Program uses meteorological data to aid in evaluating the radiological impact, if any, of radioactivity released in Station effluents. The meteorological data is used to evaluate radiological environmental monitoring sites to assure the program is as current as possible. The Emergency Preparedness Program uses meteorological data to calculate emergency dose scenarios for emergency drills and exercises and uses weather data to plan evacuations or station isolation during adverse weather. The Chemistry Unit uses meteorological data for chemical spill response activities, marsh management studies, and wastewater discharge flow calculations. Plant Operations uses meteorological data for cooling tower efficiency calculations, Forebay water level availability and plant work which needs certain environmental conditions to be met before work begins. Plant Security utilizes weather data in their routine planning and activities. Materials Management plans certain Plant shipments around adverse weather conditions to avoid high winds and precipitation, which would cause delays in material deliveries and safety concerns. Industrial Safety uses weather and climate data to advise personnel of unsafe working conditions due to environmental conditions, providing a safer place to work. Regulatory Affairs uses climate data for their investigation into adverse weather accidents in relation to the Plant and personnel.

1. Detailed meteorological information is available upon request.

On-Site Meteorological Monitoring

System Description

At Davis-Besse there are two meteorological systems, a primary and a backup. Both are housed in separate environmentally controlled buildings with independent power supplies. Both primary and backup systems have been analyzed to be statistically identical, so that if a redundant system in one unit fails, the other system can take its place. The instrumentation of each system follows:

<u>PRIMARY</u>	BACKUP
100 Meter Wind Speed	100 Meter Wind Speed
75 Meter Wind Speed	75 Meter Wind Speed
10 Meter Wind Speed	10 Meter Wind Speed
100 Meter Wind Direction	100 Meter Wind Direction
75 Meter Wind Direction	75 Meter Wind Direction
10 Meter Wind Direction	10 Meter Wind Direction
100 Meter Delta Temperature	100 Meter Delta Temperature
75 Meter Delta Temperature	75 Meter Delta Temperature
10 Meter Ambient Temperature	10 Meter Ambient Temperature
10 Meter Dew Point	10 Meter Solar Incidence
Precipitation	

Meteorological Instrumentation

The meteorological system consists of one monitoring site located at an elevation of 577 feet above mean sea level (IGLD 1955)*. It contains a 100 meter (m) free-standing tower located approximately 3,000 feet SSW of the Cooling Tower and a 10m auxiliary tower located 100 feet west of the 100 m tower. Both are used to gather the meteorological data. The 100m tower has primary and backup instruments for wind speed and wind direction at 100m and 75m. The 100m tower also measures differential temperature (delta Ts): 100-10m and 75-10m. The 10m tower has instruments for wind speed and wind direction. Precipitation is measured by a tipping bucket rain gauge located near the base of the 10m tower.

According to the Davis-Besse Nuclear Power Station Technical Requirements Manual, a minimum of five instruments are required to be operable at the two lower levels (75m and 10m) to measure temperature, wind speed, and wind direction. During 2020, average annual data recoveries for all required instruments were greater than 99.6 percent. Minor losses of data occurred during routine instrument maintenance, calibration, and data validation.

Personnel at Davis-Besse inspect the meteorological site and instrumentation regularly. Data is reviewed daily to ensure that all communication pathways, data availability and data reliability are working as required. Tower instrumentation maintenance and semiannual calibrations are performed by in-house facilities and by an outside consulting firm. These instruments are wind tunnel tested to assure compliance with applicable regulations and plant specifications.

* International Great Lakes Data - 1955

Meteorological Data Handling and Reduction

Each meteorological system, primary and backup, have two Campbell Scientific Data-loggers (model 21XL) assigned to them. The primary system has a first data logger to communicate 900 second averages to the control room via a Digital Alpha computer system. This is a dedicated line. If a failure occurs at any point between the primary meteorological system and the control room the control room can utilize the second data logger in the primary shelter. Each data logger has its own dedicated communication link with battery backup. The backup meteorological system is designed the same as the primary; so to lose all meteorological data the primary and backup meteorological systems would have to lose all four data loggers. However, this would be difficult since each is powered by a different power supply and equipped with lightning and surge protection, plus four independent communication lines and data logger battery backup.

The data from the primary and backup meteorological systems are stored in a 30-day circular storage module with permanent storage held by the Digital Alpha computer. Data goes back to 1988 in this format and to 1968 in both digital and hardcopy formats. All data points are scrutinized every 900 seconds by meteorological statistics programs running continuously. These are then reviewed by meteorological personnel daily for validity based on actual weather conditions. A monthly review is performed using 21 NRC computer codes, which statistically analyze all data points for their availability and validity. If questionable data on the primary system cannot be corroborated by the backup system, the data in question is eliminated and not incorporated into the final database. All validated data is then documented and stored on hard copy and in digital format for a permanent record of meteorological conditions.

Meteorological Data Summaries

This section contains Tables 26-28, which summarize meteorological data collected from the onsite monitoring program in 2020.

Wind Speed and Wind Direction

Wind sector graphics represent the frequency of wind direction by sector and the wind speed in mph by sector. This data is used by the NRC to better understand local wind patterns as they relate to defined past climatological wind patterns reported in Davis-Besse's Updated Safety Analysis Report. The maximum sustained wind speeds recorded during 2020 occurred on November 15th, when the 100-meter level was measured at 52.80 mph, and on November 15th, when the 75-meter level was measured at 50.83 mph. The maximum wind speed in 2020 at the 10-meter level occurred on November 15th, when it reached 39.21 mph.

Figures 30-32 provide an annual sector graphic of average wind speed and percent frequency by direction measured at the three monitoring levels. Each wind sector graphic has two radial bars. The darker bar represents the percent of time the wind blew from that direction. The hatched bar represents the average wind speed from that direction. Wind direction sectors are classified using Pasquill Stabilities. Percent calms (less than or equal to 1.0 mph) are shown in the middle of the wind sector graphic.

Ambient and Differential Temperatures

Monthly average, minimum and maximum ambient temperatures for 2020 are provided in Table 27. The parameters were measured at the 10m level; with differential temperatures taken from 100m and 75m levels. The yearly average ambient temperature was 52.42°F. The maximum temperature was 91.67°F on August 27th with a minimum temperature of 11.07°F on February 15th. Yearly average differential temperatures were -0.67°F (100-10m), and -0.29°F (75-10m). Maximum differential temperatures for 100-10 meter and 75-10m levels were 7.99°F on October 14th and 7.97°F on December 10th respectively. Minimum differential temperatures were -4.00°F (100-10m) and -4.00°F (75-10m) on June 23rd and October 21st respectively. Differential temperatures are a measurement of atmospheric stability and used to calculate radioactive plume dispersions based on Gaussian Plume Models of continuous effluent releases.

Dew Point Temperatures and Relative Humidity

Monthly average and extreme dew point temperatures for 2020 are not available due to a sensor failure. These data are measured at the 10m level.

Precipitation

Monthly totals and extremes of precipitation at Davis-Besse for 2020 are provided in Table 27. Total precipitation for the year was 24.32 inches. The maximum daily precipitation total was 0.80 inches on September 7th. There were many days in which no precipitation was recorded. It is likely that precipitation totals recorded in colder months are somewhat less than actual due to snow/sleet blowing across the collection unit rather than accumulating in the gauge.

Lake Breeze and Lake Level Monitoring

The "Lake Breeze" condition is monitored at Davis-Besse because of its potential to cause major atmospheric/dispersion problems during the unlikely event of an unplanned radioactive release.

A lake breeze event can occur during the daytime, usually during the summer, under the conditions in which the land surface heats up faster than the water and reaches warmer temperatures than the temperature of the water. The warmer air above the land rises faster because it is less dense than the cooler air over the lake. This leads to rising air currents over the land with denser cold air descending over the lake. This starts a wind circulation which draws air from the water to the land during the daytime, creating a "Lake Breeze" effect. This event could be problematic if a release were to occur, because diffusion would be slow, thus creating an adverse atmosphere to the area surrounding the site.

Lake and Forebay levels are monitored at Davis-Besse to observe, evaluate, predict and disseminate high or low lake level information. This data is critical to the operation of the plant due to the large amounts of water needed to cool plant components. If water levels get too low, the plant operators can take measures to ensure safe shutdown of the plant. Since Lake Erie is the shallowest of the Great Lakes, it is not uncommon for five feet of lake level fluctuation to occur within an eight to ten hour period (plus or minus). High water levels also affect the plant due to emergency transportation and evacuation routes. A Lake Breeze condition was not identified near Davis-Besse during 2020.

Table 26 Summary of Meteorological Data Recovery for 2020

Davis-Besse Nuclear Power Station

January 1, 2020 through December 31, 2020*

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2020
100m Wind Speed	99.19	98.56	99.06	99.72	100	100	100	100	100	100	99.86	99.87	99.69
100M Wind Direction	99.06	98.28	98.92	99.58	100	100	100	100	100	100	100	99.87	99.65
75M Wind Speed	99.19	98.56	99.06	99.72	100	100	100	100	100	100	100	99.87	99.70
75M Wind Direction	98.92	98.56	98.92	99.72	100	100	100	100	100	100	100	99.87	99.67
10M Wind Speed	99.19	98.28	98.92	99.72	100	100	100	100	100	100	100	99.87	99.67
10M Wind Direction	99.06	98.56	99.06	99.72	100	100	100	100	100	100	100	99.87	99.69
10M Ambient Air Temp	100	100	99.73	100	100	100	99.87	100	100	100	100	99.87	99.95
10M Dew Point Temp	0	0	0	0	0	0	0	0	0	0	0	0	0
Delta T (100M-10M)	99.19	98.13	98.92	99.72	99.87	100	100	100	98.33	98.66	98.06	99.46	99.20
Delta T (75M-10M)	99.46	98.99	99.33	99.58	100	100	100	100	100	100	100	99.87	99.77
Joint 100M Winds and													
Delta T (100M-10M)	99.06	98.13	98.92	99.58	99.87	100	100	100	98.33	98.66	98.06	99.46	99.20
Joint 75M Winds and													
Delta T (100M-10M)	98.92	98.13	98.92	99.72	99.87	100	100	100	98.33	98.66	98.06	99.46	99.20
Joint 10M Winds and													
Delta T (75M-10M)	99.06	98.28	98.92	99.58	100	100	100	100	100	100	100	99.87	99.67

^{*}All data for individual months expressed as percent of time instrument was operable during the month, divided by the maximum number of hours in that month that the instrument could be operable. Values for annual data recoveries equals the percent of time instrument was operable during the year, divided by the number of hours in the year that the instrument was operable.

Table 27
Summary of Meteorological Data Measured for 2020
Davis-Besse Nuclear Power Station
January 1, 2020 through December 31, 2020

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2020
100M WIND													
Max Speed (mph)	38.54	37.51	51.21	40.51	34.90	33.83	30.05	26.68	37.59	34.84	52.80	40.81	52.80
Date of Max Speed	01/11	02/02	03/29	04/07	05/07	06/10	07/10	08/14	09/07	10/14	11/15	12/24	11/15
Min Speed (mph)	0.98	1.57	1.11	1.20	1.01	1.34	1.63	1.20	0.81	1.78	2.88	1.14	0.81
Date of Min Speed	01/30	02/20	03/16	04/02	05/23	06/19	07/25	08/16	09/06	10/27	11/16	12/10	09/06
Ave Wind Speed	16.29	16.91	16.22	15.72	16.13	13.68	11.56	11.95	14.78	15.76	19.49	17.36	15.47
75M WIND													
Max Speed (mph)	35.83	36.08	49.21	37.60	33.66	31.12	28.50	24.93	35.21	31.89	50.83	37.94	50.83
Date of Max Speed	01/18	02/02	03/29	04/13	05/07	06/10	07/10	08/14	09/30	10/14	11/15	12/24	11/15
Min Speed (mph)	1.26	1.17	1.57	0.95	1.55	1.64	1.11	0.79	1.38	0.73	2.86	1.32	0.73
Date of Min Speed	01/30	02/12	03/10	04/02	05/23	06/06	07/21	08/16	09/10	10/27	11/16	12/10	10/27
Ave Wind Speed	14.89	15.40	14.83	14.51	14.69	12.65	10.56	11.00	13.23	14.49	17.63	15.83	14.13
10M WIND													
Max Speed (mph)	25.87	27.25	36.84	29.28	25.73	20.84	17.46	15.67	25.26	23.34	39.21	25.06	39.21
Date of Max Speed	01/18	02/02	03/29	04/07	05/07	06/23	07/11	08/29	09/30	10/29	11/15	12/28	11/15
Min Speed (mph)	1.03	1.73	1.12	0.81	0.73	0.91	0.92	0.95	1.12	0.02	1.31	0.92	0.02
Date of Min Speed	01/31	02/08	03/03	04/06	05/25	06/20	07/05	08/12	09/08	10/21	11/16	12/13	10/21
Ave Wind Speed	9.08	10.10	9.45	9.46	8.80	7.77	6.35	6.48	7.53	8.54	10.16	9.59	8.60

Table 27 (continued) Summary of Meteorological Data Measured for 2020 Davis-Besse Nuclear Power Station January 1, 2020 through December 31, 2020

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	2020
10M AMBIENT TEMP													
Max (F)	62.12	53.02	65.74	71.45	85.10	89.69	91.10	91.67	83.22	78.75	76.77	56.64	91.67
Date of Max	01/11	02/02	03/20	04/07	05/24	06/10	07/18	08/27	09/03	10/09	11/10	12/12	08/27
Min (F)	13.29	11.07	20.40	27.52	30.94	48.40	66.31	55.31	48.01	32.30	25.72	17.48	11.07
Date of Min	01/19	02/15	03/01	04/16	05/09	06/01	07/14	08/05	09/29	10/31	11/18	12/25	02/15
Ave Temp	33.32	30.54	41.33	45.80	56.74	71.03	77.48	73.52	65.10	52.89	46.82	33.68	52.42
10M DEW POINT TEMP													
Mean (F)	*	*	*	*	*	*	*	*	*	*	*	*	*
Max (F)	*	*	*	*	*	*	*	*	*	*	*	*	*
Date of Max	*	*	*	*	*	*	*	*	*	*	*	*	*
Min (F)	*	*	*	*	*	*	*	*	*	*	*	*	*
Date of Min	*	*	*	*	*	*	*	*	*	*	*	*	*
PRECIPITATION													
Total (inches)	1.58	0.80	3.23	2.25	2.72	1.68	1.79	2.07	2.28	3.43	2.00	0.49	24.32
Max in One Day	0.24	0.11	0.52	0.68	0.28	0.27	0.43	0.31	0.80	0.30	0.19	0.05	0.80
Date	01/11	02/24	03/28	04/07	05/14	06/27	07/10	08/28	09/07	10/21	11/25	12/30	09/07

Figure 30 Wind Rose Annual Average 100M

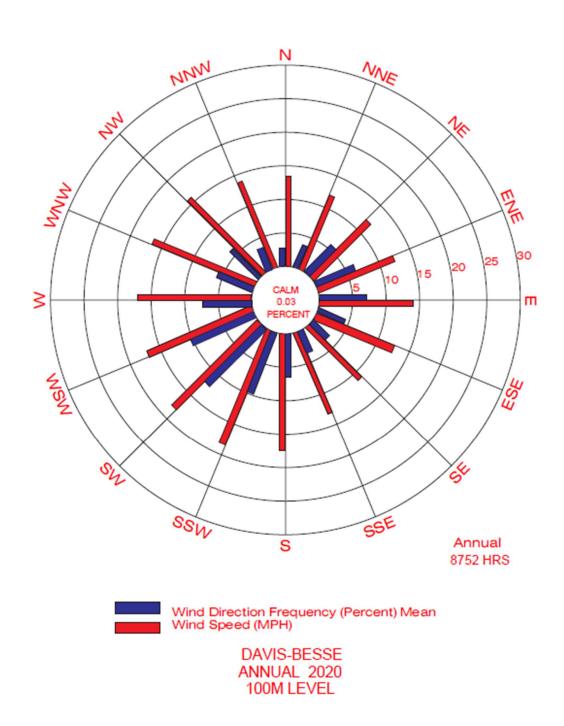


Figure 31
Wind Rose Annual Average 75M

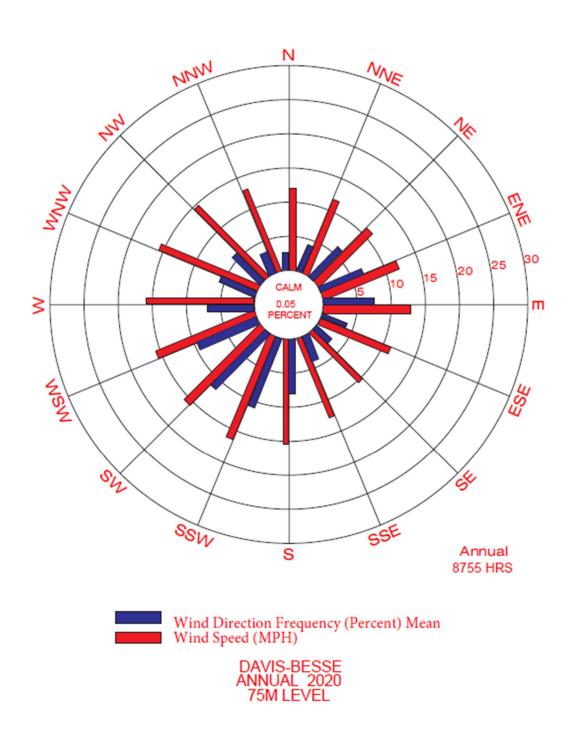


Figure 32 Wind Rose Annual Average 10M

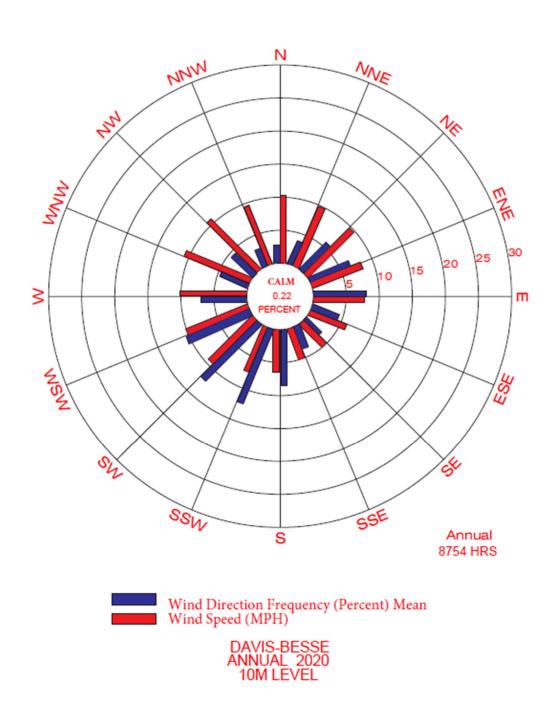


Table 28 Joint Frequency Distribution by Stability Class

DAVIS-BESSE NUCLEAR POWER STATION

PROGRAM: JFD VERSION: PC-1.2

DAVIS-BESSE 75-10 DT, NO BACKUP SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 01/01/20 - 12/31/20

*** ANNUAL ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01 - 3.50	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	3
3.51 - 7.50	0	0	1	0	5	5	2	1	1	0	3	4	2	8	8	4	44
7.51 - 12.50	0	0	2	1	15	3	2	0	1	4	17	21	13	14	31	4	128
12.51 - 18.50	0	1	0	7	8	0	0	0	0	2	5	9	9	21	11	2	75
18.51 - 24.00	0	0	0	0	0	0	0	0	0	0	0	0	4	3	4	0	11
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
TOTAL	0	1	3	8	28	9	4	1	2.	6	25	34	29	46	55	11	262

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01 - 3.50	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
3.51 - 7.50	2	0	0	1	4	3	0	0	0	4	4	6	4	3	4	4	39
7.51 - 12.50	1	0	0	4	18	2	0	0	1	4	31	21	11	8	10	4	115
12.51 - 18.50	0	0	1	13	5	0	0	0	0	1	17	12	12	5	3	0	69
18.51 - 24.00	0	0	0	0	0	0	0	0	0	0	0	2	6	1	2	0	11
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
TOTAL	3	0	1	18	27	5	1	0	1	9	52	41	35	17	19	8	237

Table 28 (Continued) Joint Frequency Distribution by Stability Class

DAVIS-BESSE NUCLEAR POWER STATION

PROGRAM: JFD VERSION: PC-1.2

DAVIS-BESSE 75-10 DT, NO BACKUP SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 01/01/20 - 12/31/20

*** ANNUAL ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	Е	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01 - 3.50	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	3
3.51 - 7.50	1	0	1	4	12	10	4	1	0	2	14	5	5	3	3	2	67
7.51 - 12.50	3	2	7	16	25	2	0	0	3	11	36	30	8	10	7	7	167
12.51 - 18.50	0	0	1	6	8	0	0	0	2	6	15	22	16	9	4	0	89
18.51 - 24.00	0	0	1	0	0	0	0	0	0	0	1	2	6	0	1	0	11
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	2	10	26	45	12	4	2	5	19	66	59	35	22	15	11	337

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
1.01 - 3.50	1	4	1	14	17	11	17	14	14	11	7	13	11	2	4	3	144
3.51 - 7.50	31	44	92	169	165	104	54	43	82	124	110	97	44	39	57	49	1304
7.51 - 12.50	79	110	173	206	167	48	16	23	68	141	144	186	93	56	78	83	1671
12.51 - 18.50	44	75	96	71	33	4	2	3	23	55	94	132	74	49	63	35	853
18.51 - 24.50	16	3	7	1	0	0	0	0	3	2	40	32	20	9	22	13	168
>24.00	0	0	0	0	0	0	0	0	0	0	11	8	2	4	1	0	26
TOTAL	171	236	369	461	382	167	89	83	190	333	406	468	244	159	225	183	4168

Table 28 (Continued) Joint Frequency Distribution by Stability Class

DAVIS-BESSE NUCLEAR POWER STATION

PROGRAM: JFD VERSION: PC-1.2

DAVIS-BESSE 75-10 DT, NO BACKUP SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 01/01/20 - 12/31/20

*** ANNUAL ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

TOTAL	41	87	69	82	166	173	97	150	308	544	379	266	226	111	81	52	2840
>24.00	0	1	1	0	0	0	0	0	0	0	2	0	0	0	0	0	4
18.51 - 24.00	0	3	1	0	0	0	0	0	4	3	5	4	2	4	0	0	26
12.51 - 18.50	5	4	9	2	6	0	0	4	26	56	65	30	23	25	14	8	277
7.51 - 12.50	6	27	26	21	25	28	7	28	86	181	124	89	98	40	38	16	840
3.51 - 7.50	25	48	28	51	111	114	56	77	141	264	164	123	87	29	19	14	1351
1.01 - 3.50	5	4	4	8	24	31	34	41	51	40	19	20	16	13	10	14	334
CALM																	8
SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	6
1.01 - 3.50	1	1	3	1	3	10	16	39	71	49	15	9	7	6	1	2	234
3.51 - 7.50	3	1	5	8	17	18	7	18	74	117	55	31	29	8	3	1	395
7.51 - 12.50	0	1	2	1	13	4	3	0	4	5	4	3	3	1	1	0	45
12.51 - 18.50	0	0	0	2	2	0	0	0	0	3	0	1	0	0	0	0	8
18.51 - 24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	3	10	12	35	32	26	57	149	174	74	44	39	15	5	3	688

Table 28 (Continued) Joint Frequency Distribution by Stability Class

DAVIS-BESSE NUCLEAR POWER STATION

PROGRAM: JFD VERSION: PC-1.2

DAVIS-BESSE 75-10 DT, NO BACKUP SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 01/01/20 - 12/31/20

*** ANNUAL ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01 - 3.50	0	0	1	0	0	6	6	11	20	31	17	7	5	0	0	0	104
3.51 - 7.50	0	0	0	0	5	11	5	11	23	25	16	5	4	2	0	0	107
7.51 - 12.50	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	3
12.51 - 18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51 - 24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	1	0	7	17	11	23	43	56	33	12	9	2	0	0	214

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	16
1.01 - 3.50	7	9	9	23	44	59	74	106	156	131	58	49	39	21	16	22	823
3.51 - 7.50	62	93	127	233	319	265	128	151	321	536	366	271	175	92	94	74	3307
7.51 - 12.50	89	140	210	249	265	87	28	52	163	346	356	350	226	129	165	114	2969
12.51 - 18.50	49	80	107	101	62	4	2	7	51	123	196	206	134	109	95	45	1371
18.51 - 24.00	16	6	9	1	0	0	0	0	7	5	46	40	38	17	29	13	227
>24.00	0	1	1	0	0	0	0	0	0	0	13	8	5	4	1	0	33
TOTAL	223	329	463	607	690	415	232	316	698	1141	1035	924	617	372	400	268	8746

Land and Wetlands Management

The Navarre Marsh, which is part of the Ottawa National Wildlife Refuge, makes up 733 acres of wetlands on the southwestern shore of Lake Erie and surrounds the Davis-Besse Nuclear Power Station. The marsh is owned by Energy Harbor and jointly managed by the U.S. Fish and Wildlife Service and Energy Harbor. Navarre Marsh is divided into three pools. The pools are separated from Lake Erie and each other by a series of dikes and revetments. Davis-Besse is responsible for the maintenance and repair of the dikes and controlling the water levels in each of the pools.

A revetment is a retaining structure designed to hold water back for the purposes of erosion control and beach formation. Revetments are built with a gradual slope, which causes waves to dissipate their energy when they strike their large surface area. Beach formation is encouraged through the passive deposition of sediment. A dike is a retaining structure designed to hold water for the purpose of flood control and to aid in the management of wetland habitat. When used as a marsh management tool, dikes help in controlling water levels in order to maintain desired vegetation and animal species. Manipulating water levels is one of the most important marsh management techniques used in the Navarre Marsh. Three major types of wetland communities exist in Navarre Marsh, the freshwater marsh, the swamp forest, and the wet meadow. Also, there exists a narrow dry beach ridge along the lakefront, with a sandbar extending out into Lake Erie. All these areas provide essential food, shelter and nesting habitat, as well as a resting area for migratory birds.

Davis-Besse personnel combine their efforts with a number of conservation agencies and organizations. The Ottawa National Wildlife Refuge, the Ohio Department of Natural Resources (ODNR), and the Black Swamp Bird Observatory work to preserve and enhance existing habitat. Knowledge is gained through research and is used to help educate the public about the importance of preserving wetlands.

With its location along two major migratory flyways, the Navarre Marsh serves as a refuge for a variety of birds in the spring and fall, giving them an area to rest and restore energy reserves before continuing their migration. The Black Swamp Bird Observatory, a volunteer research group, captures, bands, catalogues, and releases songbirds in the marsh during these periods.

Navarre Marsh is also home to wildlife that is typical of much of the marshland in this area, including deer, fox, coyote, beavers, muskrats, mink, rabbits, groundhogs, hawks, owls, ducks, geese, herons, snakes and turtles. American Bald Eagles chose the Navarre Marsh as a nesting site in late 1994, and fledged a healthy eaglet in July 1995. A second pair built a nest in 1999-2000. Numerous eagles have fledged from these two nests since 1994.

Water Treatment Plant Operation

Description

The Davis-Besse Nuclear Power Station draws water from Lake Erie for its water treatment plant. The lake water is treated with sodium hypochlorite and/or sodium bromide, coagulant aid, filtration, electrolysis and demineralization to produce high-purity water used in many of the Station's cooling systems.

Water from the Carroll Township Water Treatment Plant is used in Davis-Besse's Fire Protection System and as a backup supply to the demineralized water production system.

Water Treatment System

Raw water from Lake Erie enters an intake structure, then passes through traveling screens which remove debris greater than one-half inch in size. The water is then pumped to chlorine detention tanks. Next, the water is sent to the pre-treatment system, which is comprised of coagulation and filtration to remove sediment, organic debris, and certain dissolved compounds from the raw water. The next step of the process is reverse osmosis, where pressure is used to remove certain impurities by passing the water through a selectively-permeable membrane. The water is then stripped of dissolved gases, softened, electrolytically deionized and finally, is routed through a polishing demineralization process before being sent to storage.

Domestic Water

When Davis-Besse began operation, all site domestic water was produced in the Water Treatment Facility. Operation of the domestic water treatment and distribution system, including the collection and analysis of daily samples, was reportable to the Ohio Environmental Protection Agency.

Since December of 1998, the Carroll Township Water Treatment Plant has supplied domestic water to Davis-Besse. Carroll Township Water and Wastewater District follow all applicable regulatory requirements for the sampling and analysis of Station drinking water.

Zebra Mussel Control

With the exception of its domestic water, the Plant withdraws all of its water through an intake system from Lake Erie. Zebra mussels have, in the past, had the potential to severely impact the availability of water for Plant processes. *Dreissena polymorpha*, commonly known as the zebra mussel, is a native European bivalve that was introduced into the Great Lakes in 1986 and was discovered in Lake Erie in 1989. Zebra mussels are prolific breeders that rapidly colonize an area by forming byssal threads, which enable them to attach to solid surfaces and to each other. Because of their ability to attach in this manner, they may form layers several inches deep. This has posed problems to facilities in the past for water intakes on Lake Erie because mussels attach to the intake structures and restrict water flow. Zebra mussels have not caused any significant problems at Davis-Besse due to effective biocide control. At present, the mussel populations are declining.

Algae Control

Lake Erie continues to exhibit changes, and strand-forming blue-green algae has become more prolific during the last few years. Blue-green algae has the potential to cause problems with Circulating Water screen plugging and system fouling. Increased addition of oxidants has kept the algae in check thus far, but changes in lake conditions requires constant vigilance to prevent operational challenges.

Wastewater Treatment Plant (WWTP) Operation

The WWTP operation is supervised by an Ohio licensed Wastewater Operator. Wastewater generated by site personnel is treated in an onsite extended aeration package treatment facility designed to accommodate up to 38,000 gallons per day. In the treatment process, wastewater from the various collection points around the site enters the facility through a grinder, from where it is distributed to the surge tanks of one or both of the treatment plants.

The wastewater is then pumped into aeration tanks, where it is digested by microorganisms. Oxygen is necessary for good sewage treatment, and is provided to the microbes by blowers and diffusers. The mixture of organics, microorganisms, and decomposed wastes is called activated sludge. The treated wastewater settles in a clarifier, and the clear liquid leaves the clarifier under a weir and exits the plant through an effluent trough. The activated sludge contains the organisms necessary for continued treatment, and is pumped back to the aeration tank to digest incoming wastewater. The effluent leaving the plant is drained to the wastewater basin (NPDES Outfall 601) where further treatment takes place.

National Pollutant Discharge Elimination System (NPDES) Reporting

The Ohio Environmental Protection Agency (OEPA) has established limits on the amount of pollutants that Davis-Besse may discharge to the environment. These limits are regulated through the Station's National Pollutant Discharge Elimination System (NPDES) permit. Permit number 2IB00011*KD has an effective date of May 1, 2018 and is valid for 5 years from the effective date. Parameters such as chlorine, suspended solids and pH are monitored under the NPDES permit. Davis-Besse personnel prepare the NPDES Reports and submit them to the OEPA each month.

Davis-Besse has eight sampling points described in the NPDES permit. Seven of these locations are discharge points/outfalls or Internal Monitoring Stations, and one is a temperature monitoring location. Descriptions of these sampling points follow:

Outfall 001

Collection Box: a point representative of discharge to Lake Erie

Source of Wastes: Low volume wastes (Outfalls 601 and 602), Circulating Water system

blow-down and Service Water

Outfall 002

Area Runoff: Discharge to Toussaint River

Source of Wastes: Storm water runoff, Circulating Water pump house sumps

Outfall 003

Screenwash Catch Basin: Outfall to Navarre Marsh

Source of Wastes: Backwash water and debris from water intake screens

Outfall 004/005

Cooling Tower Basin Ponds: Outfall to State Route 2 Ditch

Source of Wastes: Circulating Water System drain (only during system outages)

Sludge Monitoring 588

Sludge Monitoring

Source of Wastes: Wastewater Plant sludge shipped for offsite processing

Internal Monitoring Station 601

Wastewater Plant Tertiary Treatment Basin: Discharge from Wastewater Treatment

Plant

Sources of Wastes: Wastewater Treatment Plant

Internal Monitoring Station 602

Low volume wastes: Discharge from settling basins

Sources of wastes: Water treatment residues, Condensate Polishing Holdup Tank decants and

Condensate Pit sumps

Intake Monitoring 801

Intake temperature: Intake water prior to cooling operation

2020 NPDES Summary

During 2020, Davis-Besse Nuclear Power Station had zero exceedances of the NPDES permit.

Chemical Waste Management

The Chemical Waste Management Program for hazardous and nonhazardous chemical wastes generated at the Davis-Besse Nuclear Power Station was developed to ensure wastes are managed and disposed of in accordance with all applicable state and federal regulations.

Resource Conservation and Recovery Act

The Resource Conservation and Recovery Act (RCRA) is the statute which regulates solid hazardous waste. Solid waste is defined as a solid, liquid, semi-solid, or contained gaseous material. The major goals of RCRA are to establish a hazardous waste regulatory program to protect human health and the environment and to encourage the establishment of solid waste management, resource recovery, and resource conservation systems. The intent of the hazardous waste management program is to control hazardous wastes from the time they are generated until they are properly disposed of, commonly referred to as "cradle to grave" management. Anyone who generates, transports, stores, treats, or disposes of hazardous waste are subject to regulation under RCRA.

Under RCRA, there are essentially three categories of waste generators:

- Large quantity Generators A facility which generates 1,000 kilograms/month (2,200 lbs./month) or more.
- Small quantity Generators A facility which generates less than 1,000 kilograms/month (2,200 lbs./month).
- Very Small Quantity Generators A facility which generates 100 kilograms/month (220 lbs./month).

In 2020, the Davis-Besse Nuclear Power Station generated approximately 1,709 pounds of hazardous waste.

Non-hazardous waste generated in 2020 included 93,437 gallons, that was considered as used oil, much of which was oil and water mixture from Turbine Plant Cooling Water due to an oil and steam leak into the Turbine Plant Cooling Water System during the refueling outage. The total amount of non-hazardous waste from DBNPS in 2020 was approximately 10,109 pounds from sources such as oil filters, resins and caulks.

RCRA mandates other requirements such as the use of proper storage and shipping containers, labels, manifests, reports, personnel training, a spill control plan and an accident contingency plan. These are part of the Chemical Management Program at Davis-Besse. The following are completed as part of the hazardous waste management program and RCRA regulations:

- Weekly Inspections of the Chemical Waste Accumulation Areas are designated throughout
 the site to ensure proper handling and disposal of chemical waste. These, along with the
 Chemical Waste Storage Area, are routinely patrolled by security personnel and inspected
 weekly by Environmental and Chemistry personnel. All areas used for storage or accumulation of hazardous waste are posted with warning signs and drums are color-coded for
 easy identification of waste categories.
- Waste Inventory Forms are placed on waste accumulation drums or provided in the accumulation area for employees to record the waste type and amount when chemicals are added to the drum. This ensures that incompatible wastes are not mixed and also identifies the drum contents for proper disposal.

Other Environmental Regulating Acts

Comprehensive Environmental Response, Compensation and Liability Act

The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA, or Superfund) established a federal authority and source of funding for responding to spills and other releases of hazardous materials, pollutants and contaminants into the environment. Superfund establishes "reportable quantities" for several hundred hazardous materials and regulates the cleanup of abandoned hazardous waste disposal sites.

Superfund Amendment and Reauthorization Act (SARA)

Superfund was amended in October 1986 to establish new reporting programs dealing with emergency preparedness and community right-to-know laws. As part of this program, CERCLA is enhanced by ensuring that the potential for release of hazardous substances is minimized, and that adequate and timely responses are made to protect surrounding populations.

Davis-Besse conducts site-wide inspections to identify and record all hazardous products and chemicals onsite as required by SARA. Determinations are made as to which products and chemicals are present in reportable quantities.

Annual SARA reports are submitted to local fire departments and state and local planning commissions by March 1 for the preceding calendar year.

Toxic Substances Control Act (TSCA)

The Toxic Substance Control Act (TSCA) was enacted to provide the USEPA with the authority to require testing of new chemical substances for potential health effects before they are introduced into the environment, and to regulate them where necessary. This law would have little impact on utilities except for the fact that one family of chemicals, polychlorinated biphenyls (PCBs), has been singled out by TSCA. This has resulted in an extensive PCB management system, very similar to the hazardous waste management system established under RCRA.

In 1992, Davis-Besse completed an aggressive program that eliminated PCB transformers onsite. PCB transformers were either changed out with non-PCB fluid transformers or retrofilled with non-PCB liquid.

Retro-filling PCB transformers involves flushing the PCB fluid out of a transformer, refilling it with PCB-leaching solvents and allowing the solvent to circulate in the transformer during operation. The entire retro-fill process takes several years and will extract almost all of the PCB. In all, Davis-Besse performed retro-fill activities on eleven PCB transformers between 1987 and 1992. The only remaining PCB containing equipment onsite are a limited number of capacitors. These capacitors are being replaced and disposed of during scheduled maintenance activities.

Clean Air Act

The Clean Air Act identifies substances that are considered air pollutants. Davis-Besse holds an OEPA permit to operate an Air Contaminant Source for the station Auxiliary Boiler. This boiler is used to heat the station and provide steam to plant systems when the reactor is not operating. The Ohio EPA has granted an exemption from permitting the seven Davis-Besse diesel engines, including the Station Blackout Diesel Generator, the 2 Emergency Diesel Generators, the Emergency Response Facility Diesel Generator, the Miscellaneous Diesel, the Fire Pump Diesel, and the Diesel Driven Emergency Feedwater Pump. These sources are operated infrequently to verify their reliability, and would only be used in the event of an emergency. A report detailing the operation of these air emission sources is submitted biennially.

In response to "Clean Air Act Title V" legislation, an independent study identifying and quantifying all of the air pollution sources onsite was performed. Of particular significance is asbestos removal from renovation and demolition projects for which USEPA has outlined specific regulations concerning handling, removal, environmental protection, and disposal. Also, the Occupational Safety and Health Protection Administration (OSHA) strictly regulates asbestos with a concern for worker protection. Removal teams must meet medical surveillance, respirator fit tests, and training requirements prior to removing asbestos-containing material. Asbestos is not considered a hazardous waste by RCRA, but the EPA does require special handling and disposal of this waste under the Clean Air Act.

Transportation Safety Act

The transportation of hazardous chemicals, including chemical waste, is regulated by the Transportation Safety Act of 1976. These regulations are enforced by the United States Department of Transportation (DOT) and cover all aspects of transporting hazardous materials, including packing, handling, labeling, marking, and placarding. Before any wastes are transported off site, Davis-Besse must ensure that the wastes are identified, labeled and marked according to DOT regulations, including verification that the vehicle has appropriate placards and it is in good operating condition.

Other Environmental Programs

Underground Storage Tanks

According to RCRA, facilities with Underground Storage Tanks (USTs) are required to notify the State. This regulation was implemented in order to provide protection from tank contents leaking and causing damage to the environment. Additional standards require leak detection systems and performance standards for new tanks. At Davis-Besse, two 40,000 gallon and one 8,000 gallon diesel fuel storage tanks are registered USTs.

Spill Kits

Spill control equipment is maintained throughout the Station at chemical storage areas and hazardous chemical and oil use areas. Equipment in the kits may include chemical-resistant coveralls, gloves, boots, decontamination agents, absorbent cloth, goggles and warning signs.

Waste Minimization and Recycling

Municipal Solid Waste (MSW) is normal trash produced by individuals at home and by industries. In some communities, MSW is burned in specially designed incinerators to produce power or is separated into waste types (such as aluminum, glass, and paper) and recycled. The vast majority of MSW is sent to landfills for disposal. As the population increases and older landfills reach their capacity, MSW disposal becomes an important economic, health, and resource issue.

The State of Ohio has addressed the issue with the State Solid Waste Management Plan, otherwise known as Ohio House Bill 592. The intent of the bill is to extend the life of existing landfills by reducing the amount of MSW produced, by reusing certain waste material, and by recycling other wastes. This is frequently referred to as "Reduce, Reuse, and Recycle."

Davis-Besse has implemented and participated in company wide programs that emphasize the reduction, reuse, recycle approach to MSW management. An active Investment Recovery Program has greatly contributed to the reduction of both hazardous and municipal waste generated by evaluating options for uses of surplus materials prior to the materials entering Davis-Besse's waste streams. Such programs include aluminum cans, used tires, and metals recycling or recovery. Aluminum soft drink cans are collected for the Boy Scouts of America to recycle. Additionally, lead-acid batteries are recycled and tires are returned to the seller for proper disposal.

Although scrap metal is not usually considered part of the MSW stream, Davis-Besse collects and recycles scrap metals, which are sold at market price to a scrap dealer for resource recovery.



APPENDIX A

INTERLABORATORY AND INTRALABORATORY COMPARISON PROGRAM RESULTS

NOTE: Appendix A is updated four times a year. The complete appendix is included in March, June, September and December monthly progress reports only.

January, 2020 through December, 2020

Appendix A

Interlaboratory/ Intralaboratory Comparison Program Results

Environmental Inc., Midwest Laboratory has participated in interlaboratory comparison (crosscheck) programs since the formulation of it's quality control program in December 1971. These programs are operated by agencies which supply environmental type samples containing concentrations of radionuclides known to the issuing agency but not to participant laboratories. The purpose of such a program is to provide an independent check on a laboratory's analytical procedures and to alert it of any possible problems.

Participant laboratories measure the concentration of specified radionuclides and report them to the issuing agency. Several months later, the agency reports the known values to the participant laboratories and specifies control limits. Results consistently higher or lower than the known values or outside the control limits indicate a need to check the instruments or procedures used.

Results in Table A-1 were obtained through participation in the RAD PT Study Proficiency Testing Program administered by Environmental Resource Associates, serving as a replacement for studies conducted previously by the U.S. EPA Environmental Monitoring Systems Laboratory, Las Vegas, Nevada.

Results in Table A-2 were obtained through participation in the New York Department of Health Environmental Laboratory Approval Program (ELAP) PT.

Table A-3 lists results for thermoluminescent dosimeters (TLDs), via irradiation and evaluation by the University of Wisconsin-Madison Radiation Calibration Laboratory at the University of Wisconsin Medical Radiation Research Center.

Table A-4 lists results of the analyses on intralaboratory "spiked" samples for the past twelve months. All samples are prepared using NIST traceable sources. Data for previous years available upon request.

Table A-5 lists results of the analyses on intralaboratory "blank" samples for the past twelve months. Data for previous years available upon request.

Table A-6 lists analytical results from the intralaboratory "duplicate" program for the past twelve months. Acceptance is based on each result being within 25% of the mean of the two results or the two sigma uncertainties of each result overlap.

The results in Table A-7 were obtained through participation in the Mixed Analyte Performance Evaluation Program.

Results in Table A-8 were obtained through participation in the MRAD PT Study Proficiency Testing Program administered by Environmental Resource Associates, serving as a replacement for studies conducted previously by the Environmental Measurement Laboratory Quality Assessment Program (EML).

Attachment A lists the laboratory acceptance criteria for various analyses.

Out-of-limit results are explained directly below the result.

Attachment A

ACCEPTANCE CRITERIA FOR INTRALABORATORY "SPIKED" SAMPLES

Analysis	Ratio of lab result to known value.
Gamma Emitters	0.8 to 1.2
Strontium-89, Strontium-90	0.8 to 1.2
Potassium-40	0.8 to 1.2
Gross alpha	0.5 to 1.5
Gross beta	0.8 to 1.2
Tritium	0.8 to 1.2
Radium-226, Radium-228	0.7 to 1.3
Plutonium	0.8 to 1.2
lodine-129, lodine-131	0.8 to 1.2
Nickel-63, Technetium-99, Uranium-238	0.7 to 1.3
Iron-55	0.8 to 1.2
Other Analyses	0.8 to 1.2

TABLE A-1. Interlaboratory Comparison Crosscheck program, Environmental Resource Associates (ERA)^a· RAD study

			Concen	tration (pCi/L)		
Lab Code	Date	Analysis	Laboratory	ERA	Control	
			Result	Result	Limits	Acceptance
RAD-120 Stud	dy					
ERW-49	1/6/2020	Ba-133	60.8 ± 4.4	64.5	53.7 - 71.0	Pass
ERW-49	1/6/2020	Cs-134	22.7 ± 2.8	22.9	17.5 - 25.6	Pass
ERW-49	1/6/2020	Cs-137	225 ± 8	220	198 - 244	Pass
ERW-49	1/6/2020	Co-60	94.6 ± 4.6	91.2	82.1 - 103	Pass
ERW-49	1/6/2020	Zn-65	331 ± 13	298	268 - 348	Pass
ERDW-51	1/6/2020	Gr. Alpha	52.3 ± 2.4	58.9	30.8 - 73.3	Pass
ERDW-51	1/6/2020	Gr. Beta	19.9 ± 1.0	21.0	12.6 - 29.1	Pass
ERDW-53	1/6/2020	Ra-226	12.8 ± 0.5	17.4	12.9 - 19.9	Fail ^b
ERDW-53	1/6/2020	Ra-228	7.13 ± 0.9	7.95	5.06 - 10.1	Pass
ERDW-53	1/6/2020	Uranium	63.8 ± 1.0	68.2	55.7 - 75.0	Pass
ERW-55	1/6/2020	H-3	18,200 ± 408	17,800	15,600 -19,600	Pass
RAD-121 Stud	dy					
ERDW-1034	4/6/2020	Ra-226	17.8 ± 0.5	18.4	13.7 - 21.0	Pass
ERDW-1034	4/6/2020	Ra-228	6.30 ± 0.86	5.81	3.56 - 7.64	Pass
ERDW-1034	4/6/2020	Uranium	18.7 ± 1.3	18.6	14.9 - 20.9	Pass
RAD-122 Stud	dy					
ERW-2297	7/6/2020	Ba-133	43.8 ± 3.4	58.6	48.6 - 64.6	Fail ^c
ERW-2297	7/6/2020	Cs-134	19.8 ± 2.4	22.3	17.0 - 25.0	Pass
ERW-2297	7/6/2020	Cs-137	73.2 ± 5.4	73.0	65.7 - 83.0	Pass
ERW-2297	7/6/2020	Co-60	90.0 ± 4.0	86.1	77.5 - 97.0	Pass
ERW-2297	7/6/2020	Zn-65	84.9 ± 7.5	82.9	74.6 - 99.6	Pass
ERDW-2299	7/6/2020	Gr. Alpha	40.3 ± 2.2	52.40	27.30 - 65.6	Pass
ERDW-2299	7/6/2020	Gr. Beta	19.9 ± 1.0	24.3	15.0 - 32.3	Pass
ERDW-2303	7/6/2020	Ra-226	8.91 ± 0.43	10.8	8.08 - 12.5	Pass
ERDW-2303	7/6/2020	Ra-228	4.79 ± 0.80	5.42	3.28 - 7.19	Pass
ERDW-2303	7/6/2020	Uranium	27.7 ± 0.9	29.3	23.7 - 32.5	Pass
ERW-2305	7/6/2020	H-3	21,100 ± 400	20,300	17,800 - 22,300	Pass
ERW-2301	7/6/2020	1-131	27.8 ± 1.2	26.1	21.7 - 30.8	Pass

^a Results obtained by Environmental, Inc., Midwest Laboratory as a participant in the crosscheck program for proficiency testing in drinking water conducted by Environmental Resource Associates (ERA).

b Ra-226 was slightly below the lower limit of the study. The reported value was the mean of two results (12.5 & 13.0). The sample was re-run in duplicate and both results, 15.6 and 13.8 pCi/L, were within the acceptance band.

c Ba-133 was below the lower acceptable limit of the study. No cause for the failure could be identified. Going forward gamma results will be monitored to see if any trend develops.

TABLE A-2. Interlaboratory Comparison Crosscheck program, New York Department of Health (ELAP)^a·

Lab Code	Date	Analysis	Laboratory Result	Assigned Value	Acceptance Limits	Acceptance
			Shipmer	nt 437R		
NYW-3307	9/15/2020	H-3	11,500 ± 465	11,208	9760 - 12,300	Pass
NYW-3331	9/15/2020	Gross Alpha	43.7 ± 2.5	64.9	34.0 - 80.4	Pass
NYW-3331	9/15/2020	Gross Beta	11.1 ± 1.1	8.85	3.62 - 17.4	Pass
NYW-3335	9/15/2020	1-131	14 .1 ±1.4	12.6	10.3 - 16.0	Pass
NYW-3333	9/15/2020	Ra-226	2.24 ± 0.27	2.63	2.06 - 3.44	Pass
NYW-3333	9/15/2020	Ra-228	4.91 ± 1.12	5.41	3.27 - 7.18	Pass
NYW-3333	9/15/2020	Uranium	42.8 ± 1.94	37.1	30.1 - 41.0	Fail ^b
NYW-3337	9/15/2020	Co-60	46.4 ± 3.8	42.3	38.1 - 49.2	Pass
NYW-3337	9/15/2020	Zn-65	133 ± 9	116	104 -138	Pass
NYW-3337	9/15/2020	Ba-133	49.5 ± 4.1	46.4	38.0 - 51.6	Pass
NYW-3337	9/15/2020	Cs-134	32.5 ± 3.1	33.0	26.0 - 36.3	Pass
NYW-3337	9/15/2020	Cs-137	147 ± 7	134	121 - 150	Pass

a Results obtained by Environmental, Inc., Midwest Laboratory as a participant in the crosscheck program for proficiency testing in drinking water conducted by the New York Department of Health Laboratory Approval Program(NY ELAP).
 b Lab passed all ERA and MAPEP studies for uranium in 2020.(See tables A-1, A-7 and A-8) Uncertainty overlaped upper acceptance limit. Lab will continue to monitor results going forward for trends.

TABLE A-3. Thermoluminescent Dosimetry, (TLD, CaSO₄ Dy Cards).^a

				mrem		
Lab Code	Irradiation		Delivered	Reported ^b	Performance ^c	
	Date	Description	Dose	Dose	Quotient (P)	
<u>Environmenta</u>	<u>l. Inc.</u>	Group 1				
2020-1	10/28/2020	Spike 1	172.0	180.0	0.05	
2020-1	10/28/2020	Spike 2	172.0	174.5	0.01	
2020-1	10/28/2020	Spike 3	172.0	174.3	0.01	
2020-1	10/28/2020	Spike 4	172.0	174.0	0.01	
2020-1	10/28/2020	Spike 5	172.0	167.1	-0.03	
2020-1	10/28/2020	Spike 6	172.0	161.9	-0.06	
2020-1	10/28/2020	Spike 7	172.0	167.9	-0.02	
2020-1	10/28/2020	Spike 8	172.0	171.0	-0.01	
2020-1	10/28/2020	Spike 9	172.0	170.7	-0.01	
2020-1	10/28/2020	Spike 10	172.0	170.1	-0.01	
2020-1	10/28/2020	Spike 11	172.0	173.8	0.01	
2020-1	10/28/2020	Spike 12	172.0	178.3	0.04	
2020-1	10/28/2020	Spike 13	172.0	178.2	0.04	
2020-1	10/28/2020	Spike 14	172.0	171.9	0.00	
2020-1	10/28/2020	Spike 15	172.0	190.4	0.11	
2020-1	10/28/2020	Spike 16	172.0	170.9	-0.01	
2020-1	10/28/2020	Spike 17	172.0	183.3	0.07	
2020-1	10/28/2020	Spike 18	172.0	170.6	-0.01	
2020-1	10/28/2020	Spike 19	172.0	164.9	-0.04	
2020-1	10/28/2020	Spike 20	172.0	175.7	0.02	
Mean (Spike [/]	1-20)			173.5	0.01	
Standard Dev	iation (Spike 1-	20)		6.5	0.04	

^a TLD's were irradiated by the University of Wisconsin-Madison Radiation Calibration Laboratory following ANSI N13.37 protocol from a known air kerma rate. TLD's were read and the results were submitted by Environmental Inc. to the University of Wisconsin-Madison Radiation Calibration Laboratory for comparison to the delivered dose.

^b Reported dose was converted from exposure (R) to Air Kerma (cGy) using a conversion of 0.876. Conversion from air kerma to ambient dose equivalent for Cs-137 at the reference dose point H*(10)K_a = 1.20 . mrem/cGy = 1000.

^c Performance Quotient (P) is calculated as ((reported dose - conventially true value) + conventially true value) where the conventially true value is the delivered dose.

^d Acceptance is achieved when neither the absolute value of the mean of the P values, nor the standard deviation of the P values exceed 0.15.

TABLE A-3. Thermoluminescent Dosimetry, (TLD, CaSO₄: Dy Cards).^a

				mrem	•
ab Code	Irradiation		Delivered	Reported ^b	Performance°
	Date	Description	Dose	Dose	Quotient (P)
Environmenta	al. Inc.	Group 2			
2020-2	10/28/2020	Spike 21	114.0	117.3	0.03
2020-2	10/28/2020	Spike 22	114.0	103.3	-0.09
2020-2	10/28/2020	Spike 23	114.0	106.2	-0.07
020-2	10/28/2020	Spike 24	114.0	110.1	-0.03
020-2	10/28/2020	Spike 25	114.0	114.9	0.01
020-2	10/28/2020	Spike 26	114.0	115.5	0.01
020-2	10/28/2020	Spike 27	114.0	110.4	-0.03
020-2	10/28/2020	Spike 28	114.0	111.7	-0.02
020-2	10/28/2020	Spike 29	114.0	111.3	-0.02
020-2	10/28/2020	Spike 30	114.0	113.1	-0.01
020-2	10/28/2020	Spike 31	114.0	116.4	0.02
020-2	10/28/2020	Spike 32	114.0	111.8	-0.02
020-2	10/28/2020	Spike 33	114.0	112.6	-0.01
020-2	10/28/2020	Spike 34	114.0	105.7	-0.07
)20-2	10/28/2020	Spike 35	114.0	104.5	-0.08
020-2	10/28/2020	Spike 36	114.0	103.6	-0.09
020-2	10/28/2020	Spike 37	114.0	104.4	-0.08
020-2	10/28/2020	Spike 38	114.0	104.5	-0.08
020-2	10/28/2020	Spike 39	114.0	106.4	-0.07
020-2	10/28/2020	Spike 40	114.0	107.7	-0.06
ean (Spike	21-40)			109.6	-0.04
Standard Dev	viation (Spike 21	-40)		4.6	0.04

^a TLD's were irradiated by the University of Wisconsin-Madison Radiation Calibration Laboratory following ANSI N13.37 protocol from a known air kerma rate. TLD's were read and the results were submitted by Environmental Inc. to the University of Wisconsin-Madison Radiation Calibration Laboratory for comparison to the delivered dose.

Reported dose was converted from exposure (R) to Air Kerma (cGy) using a conversion of 0.876. Conversion from air kerma to ambient dose equivalent for Cs-137 at the reference dose point $H^*(10)K_a = 1.20$. mrem/cGy = 1000.

^c Performance Quotient (P) is calculated as ((reported dose - conventially true value) + conventially true value) where the conventially true value is the delivered dose.

^d Acceptance is achieved when neither the absolute value of the mean of the P values, nor the standard deviation of the P values exceed 0.15.

TABLE A-4. Intralaboratory "Spiked" Samples

Lab Code ^b	Date	Analysis	Laboratory results 2s, n=1°	Known Activity	Control Limits ^d	Acceptance	Ratio Lab/Known
SPW-481	1/1/2020	Ra-226	10.4 ± 0.3	12.3	8.6 - 16.0	Pass	0.85
SPW-110	1/16/2020	H-3	2,101 ± 154	2,110	1,688 - 2,532	Pass	1.00
W-041620	4/29/2016	Cs-134	35.7 ± 8.8	36.2	29.0 - 43.4	Pass	0.99
W-041620	4/29/2016	Cs-137	75.0 ± 6.6	71.9	57.5 - 86.3	Pass	1.04
W-042020	4/29/2016	Cs-134	40.6 ± 10.2	36.2	29.0 - 43.4	Pass	1.12
W-042020	4/29/2016	Cs-137	71.2 ± 7.0	71.9	57.5 - 86.3	Pass	0.99
SPW-190	1/23/2020	H-3	2,058 ± 153	2,110	1,688 - 2,532	Pass	0.98
SPW-205	1/28/2020	Sr-90	17.6 ± 1.2	17.9	14.3 - 21.5	Pass	0.99
SPW-217	1/31/2020	H-3	2,005 ± 152	2,110	1,688 - 2,532	Pass	0.95
SPW-270	2/7/2020	H-3	2,153 ± 157	2,110	1,688 - 2,532	Pass	1.02
SPW-288	2/11/2020	Ra-228	13.1 ± 1.7	14.9	10.4 - 19.3	Pass	0.88
W-021220	4/29/2016	Cs-134	39.3 ± 18.9	36.2	29.0 - 43.4	Pass	1.09
W-021220	4/29/2016	Cs-137	73.9 ± 15.8	71.9	57.5 - 86.3	Pass	1.03
SPW-396	2/14/2020	H-3	2,298 ± 160	2,110	1,688 - 2,532	Pass	1.09
W-022420	4/29/2016	Cs-134	33.4 ± 10.5	36.2	29.0 - 43.4	Pass	0.92
W-022420	4/29/2016	Cs-137	75.6 ± 7.8	71.9	57.5 - 86.3	Pass	1.05
SPW-716	2/26/2020	Ra-226	11.3 ± 0.4	12.3	8.6 - 16.0	Pass	0.92
W-022820	4/29/2016	Cs-134	34.9 ± 11.6	36.2	29.0 - 43.4	Pass	0.96
W-022820	4/29/2016	Cs-137	82.9 ± 8.5	71.9	57.5 - 86.3	Pass	1.15
SPW-532	2/28/2020	H-3	2,054 ± 153	2,110	1,688 - 2,532	Pass	0.97
W-030420	4/29/2016	Cs-134	29.7 ± 9.6	36.2	29.0 - 43.4	Pass	0.82
W-030420	4/29/2016	Cs-137	74.2 ± 7.3	71.9	57.5 - 86.3	Pass	1.03
W-031020	4/29/2016	Cs-134	41.6 ± 17.8	36.2	29.0 - 43.4	Pass	1.15
W-031020	4/29/2016	Cs-137	78.6 ± 14.3	71.9	57.5 - 86.3	Pass	1.09
SPW-711	3/12/2020	H-3	2,083 ± 154	2,110	1,688 - 2,532	Pass	0.99
SPW-825	3/12/2020	Ra-226	12.4 ± 0.4	12.3	8.6 - 16.0	Pass	1.01
SPW-774	3/18/2020	H-3	2,021 ± 151	2,110	1,688 - 2,532	Pass	0.96
W-031820	4/29/2016	Cs-134	29.7 ± 10.6	36.2	29.0 - 43.4	Pass	0.82
W-031820	4/29/2016	Cs-137	75.5 ± 9.2	71.9	57.5 - 86.3	Pass	1.05
W-032520	4/29/2016	Cs-134	36.4 ± 9.2	36.2	29.0 - 43.4	Pass	1.01
W-032520	4/29/2016	Cs-137	74.9 ± 7.0	71.9	57.5 - 86.3	Pass	1.04
SPW-877	3/31/2020	Ra-228	13.0 ± 2.0	14.9	10.4 - 19.3	Pass	0.88
SPW-925	3/23/2020	Ra-226	10.7 ± 0.4	12.3	8.6 - 16.0	Pass	0.87
SPW-859	3/27/2020	H-3	2,065 ± 153	2,110	1,688 - 2,532	Pass	0.98
W-040320	4/29/2016	Cs-134	38.1 ± 10.3	36.2	29.0 - 43.4	Pass	1.05
W-040320	4/29/2016	Cs-137	78.6 ± 7.5	71.9	57.5 - 86.3	Pass	1.09
SPDW-1009	4/8/2020	Gr. Alpha	11.5 ± 0.9	18.7	9.4 - 28.1	Pass	0.61
SPDW-1009	4/8/2020	Gr. Beta	22.0 ± 1.0	26.1	20.9 - 31.3	Pass	0.84
SPW-1033	4/9/2020	H-3	2,041 ±153	2,110	1,688 - 2,532	Pass	0.97
W-040920	4/29/2016	Cs-134	34.3 ± 9.4	36.2	29.0 - 43.4	Pass	0.95
W-040920	4/29/2016	Cs-137	77.9 ± 8.0	71.9	57.5 - 86.3	Pass	1.08
SPW-1145	4/15/2020	Ra-228	14.3 ± 2.0	14.9	10.4 - 19.3	Pass	0.96
SPW-1186	4/17/2020	H-3	1,972 ± 151	2,110	1,688 - 2,532	Pass	0.93

^a Liquid sample results are reported in pCi/Liter, air filters (pCi/m³), charcoal (pCi/charcoal canister), and solid samples (pCi/kg).

^b Laboratory codes: W & SPW (Water), MI (milk), AP (air filter), SO (soil), VE (vegetation), CH (charcoal canister), F (fish), U (urine).

[°] Results are based on single determinations.

^d Acceptance criteria are listed in Attachment A of this report.

TABLE A-4. Intralaboratory "Spiked" Samples

			Concentration				
Lab Code ^b	Date	Analysis	Laboratory results 2s, n=1 ^c	Known Activity	Control Limits ^d	Acceptance	Ratio Lab/Knowr
SPW-1284	4/24/2020	H-3	2,015 ± 153	2,110	1,688 - 2,532	Pass	0.95
SPW-1745	4/24/2020	Ra-226	11.9 ± 0.3	12.3	8.6 - 16.0	Pass	0.97
W-042220	4/29/2016	Cs-134	33.7 ± 9.2	36.2	29.0 - 43.4	Pass	0.93
W-042220	4/29/2016	Cs-137	74.9 ± 6.6	71.9	57.5 - 86.3	Pass	1.04
W-042420	4/29/2016	Cs-134	33.3 ± 10.8	36.2	29.0 - 43.4	Pass	0.92
W-042420	4/29/2016	Cs-137	73.7 ± 8.5	71.9	57.5 - 86.3	Pass	1.03
W-043020	4/29/2016	Cs-134	33.7 ± 15.7	36.2	29.0 - 43.4	Pass	0.93
W-043020	4/29/2016	Cs-137	72.5 ± 7.1	71.9	57.5 - 86.3	Pass	1.01
SPW-1327	5/1/2020	H-3	2,071 ± 153	2,110	1,688 - 2,532	Pass	0.98
W-050520	4/29/2016	Cs-134	31.1 ± 11.9	36.2	29.0 - 43.4	Pass	0.86
W-050520	4/29/2016	Cs-137	73.2 ± 8.3	71.9	57.5 - 86.3	Pass	1.02
SPW-1394	5/5/2020	Sr-90	18.1 ± 1.1	17.9	14.3 - 21.5	Pass	1.01
W-050720	4/29/2016	Cs-134	39.9 ± 2.0	36.2	29.0 - 43.4	Pass	1.10
W-050720	4/29/2016	Cs-137	75.2 ± 14.3	71.9	57.5 - 86.3	Pass	1.05
SPW-1500	5/18/2020	Ra-228	13.8 ± 1.9	14.9	10.4 - 19.3	Pass	0.93
W-052020	4/29/2016	Cs-134	33.1 ± 1.2	36.2	29.0 - 43.4	Pass	0.91
W-052020	4/29/2016	Cs-137	80.8 ± 8.3	71.9	57.5 - 86.3	Pass	1.12
SPW-1613	5/22/2020	H-3	1,953 ± 149	2,110	1,688 - 2,532	Pass	0.93
W-052620	4/29/2016	Cs-134	31.0 ± 9.2	36.2	29.0 - 43.4	Pass	0.86
W-052620	4/29/2016	Cs-137	74.6 ± 7.5	71.9	57.5 - 86.3	Pass	1.04
SPW-2061	5/21/2020	Ra-226	10.4 ± 0.3	12.3	8.6 - 16.0	Pass	0.85
W-052620	4/29/2016	Cs-134	33.6 ± 12.8	36.2	29.0 - 43.4	Pass	0.93
W-052620	4/29/2016	Cs-137	69.2 ± 7.7	71.9	57.5 - 86.3	Pass	0.96
SPW-1741	5/27/2020	H-3	1,925 ± 150	2,110	1,688 - 2,532	Pass	0.91
SPW-1824	6/3/2020	H-3	1,971 ± 151	2,110	1,688 - 2,532	Pass	0.93
SPW-1853	6/4/2020	H-3	2,027 ± 153	2,110	1,688 - 2,532	Pass	0.96
W-061120	4/29/2016	Cs-134	39.8 ± 21.0	36.2	29.0 - 43.4	Pass	1.10
W-061120	4/29/2016	Cs-137	79.3 ± 13.5	71.9	57.5 - 86.3	Pass	1.10
SPW-1982	6/12/2020	H-3	2,065 ± 154	2,110	1,688 - 2,532	Pass	0.98
SPW-2038	6/18/2020	H-3	2,012 ± 154	2,110	1,688 - 2,532	Pass	0.95
SPW-2116	6/25/2020	H-3	2,051 ± 159	2,110	1,688 - 2,532	Pass	0.97
SPW-2173	7/1/2020	H-3	2,010 ± 154	2,110	1,688 - 2,532	Pass	0.95
SPW-2328	7/10/2020	H-3	1,924 ± 151	2,110	1,688 - 2,532	Pass	0.91
SPW-2458	7/16/2020	H-3	1,932 ± 151	2,110	1,688 - 2,532	Pass	0.92
SPW-2556	7/27/2020	Sr-90	16.8 ± 1.1	17.9	14.3 - 21.5	Pass	0.94
SPW-2558	7/6/2020	Gr. Alpha	29.9 ± 2.1	58.9	29.5 - 88.4	Pass	0.51
SPW-2558	7/6/2020	Gr. Beta	20.0 ± 1.0	21.0	16.8 - 25.2	Pass	0.95
SPW-2640	7/31/2020	H-3	1,984 ± 154	2,110	1,688 - 2,532	Pass	0.94
SPW-2778	8/7/2020	H-3	1,936 ± 151	2,110	1,688 - 2,532	Pass	0.92
SPW-2797	6/22/2020	Ra-226	10.4 ± 0.3	12.3	8.6 - 16.0	Pass	0.85
SPW-2852	8/11/2020	Ra-228	10.2 ± 1.6	12.5	8.7 - 16.2	Pass	0.82

 ^a Liquid sample results are reported in pCi/Liter, air filters (pCi/m³), charcoal (pCi/charcoal canister), and solid samples (pCi/kg).
 ^b Laboratory codes: W & SPW (Water), MI (milk), AP (air filter), SO (soil), VE (vegetation), CH (charcoal canister), F (fish), U (urine).
 ^c Results are based on single determinations.
 ^d Acceptance criteria are listed in Attachment A of this report.

TABLE A-4. Intralaboratory "Spiked" Samples

			Concentration	а			
Lab Code ^b	Date	Analysis	Laboratory results	Known	Control		Ratio
			2s, n=1°	Activity	Limits ^d	Acceptance	Lab/Knowr
SPW-2854	8/14/2020	H-3	1,927 ± 153	2,110	1,688 - 2,532	Pass	0.91
SPW-2890	8/4/2020	Ra-226	11.6 ± 0.4	12.3	8.6 - 16.0	Pass	0.95
SPW-3013	8/24/2020	H-3	2,005 ± 153	2,110	1,688 - 2,532	Pass	0.95
SPW-3053	8/28/2020	H-3	1,904 ± 149	2,110	1,688 - 2,532	Pass	0.90
SPW-3123	8/19/2020	Ra-226	10.4 ± 0.3	12.3	8.6 - 16.0	Pass	0.85
SPW-3447	9/3/2020	Ra-226	9.8 ± 0.3	12.3	8.6 - 16.0	Pass	0.80
SPW-3241	9/11/2020	H-3	1,952 ± 154	2,110	1,688 - 2,532	Pass	0.93
SPW-3425	9/23/2020	Ra-228	10.7 ± 1.6	12.3	8.6 - 16.0	Pass	0.87
SPW-3412	9/25/2020	H-3	2,099 ± 155	2,110	1,688 - 2,532	Pass	0.99
SPW-4131	9/30/2020	Ra-226	13.2 ±0.4	12.3	8.6 - 16.0	Pass	1.07
SPW-3482	10/2/2020	H-3	1,984 ± 154	2,110	1,688 - 2,532	Pass	0.94
SPW-3624	10/9/2020	H-3	1,924 ± 152	2,110	1,688 - 2,532	Pass	0.91
SPW-3794	10/16/2020	H-3	2,109 ± 156	2,110	1,688 - 2,532	Pass	1.00
SPW-3836	10/20/2020	Sr-90	16.8 ± 1.1	17.9	14.3 - 21.5	Pass	0.94
SPW-4043	10/23/2020	H-3	1893.4 ± 148.8	2,110	1,688 - 2,532	Pass	0.90
SPW-4179	10/28/2020	Ra-228	15.4 ±2.4	12.1	8.5 - 15.7	Pass	1.27
SPW-4422	10/30/2020	Ra-226	12.3 ± 0.3	12.3	8.6 - 16.0	Pass	1.00
SPW-4234	11/11/2020	H-3	2,008 ± 154	2,110	1,688 - 2,532	Pass	0.95
SPW-4634	11/23/2020	Ra-226	11.4 ± 0.3	12.3	8.6 - 16.0	Pass	0.93
SPW-4509	12/4/2020	H-3	1,873 ± 149	2,110	1,688 - 2,532	Pass	0.89
SPW-4625	12/18/2020	H-3	1,940 ± 152	2,110	1,688 - 2,532	Pass	0.92
SPW-4741	12/18/2020	Ra-226	12.5 ± 0.4	12.3	8.6 - 16.0	Pass	1.02

^a Lquid sample results are reported in pCi/Liter, air filters (pCi/m³), charcoal (pCi/charcoal canister), and solid samples (pCi/kg).

^b Laboratory codes: W & SPW (Water), MI (milk), AP (air filter), SO (soil), VE (vegetation), CH (charcoal canister), F (fish), U (urine).

^c Results are based on single determinations.

^d Acceptance criteria are listed in Attachment A of this report.

TABLE A-5. Intralaboratory "Blank" Samples

			<u> </u>		Concentrationa	
Lab Code ^b	Sample	Date	Analysis ^c		y results (4.66σ)	_ Acceptance
	Туре			LLD	Activityd	Criteria (4.66σ
SPW-480	Water	1/1/2020	Ra-226	0.03	0.12 ± 0.02	2
SPW-93	Water	1/7/2020	Gr. Alpha	0.35	0.47 ±0.29	2
SPW-93	Water	1/7/2020	Gr. Beta	0.74	0.18 ± 0.53	4
SPW-109	Water	1/16/2020	H-3	157	-6 ± 73	200
SPW-154	Water	1/16/2020	1-131	0.47	-0.22 ± 0.21	1
SPW-189	Water	1/23/2020	H-3	158	0 ± 73	200
SPW-204	Water	1/28/2020	Sr-89	0.64	-0.16 ± 0.50	5
SPW-204	Water	1/28/2020	Sr-90	0.54	0.11 ± 0.27	1
SPW-216	Water	1/31/2020	H-3	156	86 ± 78	200
SPW-269	Water	2/7/2020	H-3	153	79 ± 80	200
SPW-287	Water	2/11/2020	Ra-228	0.81	1.49 ± 0.53	2
SPW-395	Water	2/14/2020	H-3	154	46 ± 75	200
SPW-463	Water	2/25/2020	1-131	0.16	0.02 ± 0.09	1
SPW-715	Water	2/26/2020	Ra-226	0.01	0.17 ± 0.01	2
SPW-531	Water	2/28/2020	H-3	156	44 ± 75	200
SPW-710	Water	3/12/2020	H-3	157	-16 ± 72	200
SPW-824	Water	3/12/2020	Ra-226	0.03	0.15 ± 0.03	2
SPW-773	Water	3/18/2020	H-3	151	76 ± 76	200
SPW-876	Water	3/31/2020	Ra-228	0.88	0.57 ± 0.47	2
SPW-924	Water	3/23/2020	Ra-226	0.04	0.18 ± 0.03	2
SPW-1032	Water	4/9/2020	H-3	157	68 ± 77	200
SPW-1144	Water	4/15/2020	Ra-228	0.89	0.03 ± 0.42	2
SPW-1185	Water	4/17/2020	H-3	158	8 ± 74	200
SPW-1283	Water	4/24/2020	H-3	156	10 ± 75	200
SPW-1744	Water	4/24/2020	Ra-226	0.03	$\textbf{-}0.01\pm0.03$	2
SPW-1326	Water	5/1/2020	H-3	153	67 ± 75	200
SPW-1393	Water	5/5/2020	Sr-89	0.66	0.11 ± 0.44	5
SPW-1393	Water	5/5/2020	Sr-90	0.63	-0.27 ± 0.26	1
SPW-1499	Water	5/18/2020	Ra-228	0.88	0.03 ± 0.41	2
SPW-1541	Water	5/19/2020	1-131	0.20	0.00 ± 0 . 11	1
SPW-2060	Water	5/21/2020	Ra-226	0.03	-0.01 ± 0.02	2
SPW-1612	Water	5/22/2020	H-3	153	91 ± 76	200
SPW-1740	Water	5/27/2020	H-3	158	-26 ± 71	200
SPW-1823	Water	6/3/2020	H-3	157	18 ± 74	200
SPW-1852	Water	6/4/2020	H-3	159	33 ± 76	200
SPW-1981	Water	6/12/2020	H-3	149	52 ± 77	200
SPW-2037	Water	6/18/2020	H-3	156	101 ± 81	200
SPW-2115	Water	6/25/2020	H-3	158	56 ± 86	200

^a Liquid sample results are reported in pCi/Liter, air filters (pCi/m³), charcoal (pCi/charcoal canister), and solid samples (pCi/g).

b Laboratory codes: W & SPW (Water), MI (milk), AP (air filter), SO (soil), VE (vegetation), CH (charcoal canister), F (fish), U (urine).

 $^{^{\}circ}$ I-131(G); iodine-131 as analyzed by gamma spectroscopy.

^d Activity reported is a net activity result.

TABLE A-5. Intralaboratory "Blank" Samples

					Concentrationa	
Lab Code ^b	Sample	Date	Analysis ^c	Laboratory	/ results (4.66σ)	Acceptance
	Туре			LLD	Activity ^d	Criteria (4.66 σ)
SPW-2172	Water	7/1/2020	H-3	159	-15 ± 75	200
SPW-2327	Water	7/10/2020	H-3	158	50 ± 77	200
SPW-2457	Water	7/16/2020	H-3	159	-46 ± 71	200
SPW-2555	Water	7/10/2020	Sr-89	0.48	0.18 ± 0.40	5
SPW-2555	Water	7/27/2020	Sr-90	0.54	0.03 ± 0.25	1
SPW-2557	Water	7/6/2020	Gr. Alpha	0.37	0.25 ± 0.28	2
SPW-2557	Water	7/6/2020	Gr. Beta	0.75	-0.23 ± 0.52	4
SPW-2639	Water	7/31/2020	H-3	158	80 ± 81	200
SPW-2777	Water	8/7/2020	H-3	157	0 ± 74	200
SPW-2796	Water	6/22/2020	Ra-226	0.03	-0.02 ± 0.03	2
SPW-2851	Water	8/11/2020	Ra-228	0.85	0.44 ± 0.45	2
SPW-2853	Water	8/14/2020	H-3	158	18 ± 77	200
SPW-2880	Water	8/18/2020	1-131	0.42	-0.04 ± 0.22	1
SPW-2889	Water	8/4/2020	Ra-228	0.05	0.13 ±0.11	2
SPW-3012	Water	8/24/2020	H-3	159	59 ± 77	200
SPW-3052	Water	8/28/2020	H-3	155	46 ± 75	200
SPW-3122	Water	9/3/2020	Ra-226	0.03	0.20 ± 0.03	2
SPW-3240	Water	9/11/2020	H-3	161	3 ± 78	200
SPW-3446	Water	9/3/2020	Ra-226	0.01	0.12 ± 0.02	2
SPW-3424	Water	9/23/2020	Ra-228	0.85	0.81 ± 0.48	2
SPW-3411	Water	9/25/2020	H-3	158	82 ± 78	200
SPW-4130	Water	9/30/2020	Ra-226	0.04	0.01 ± 0.04	2
SPW-3481	Water	10/2/2020	H-3	154	63 ± 80	200
SPW-3623	Water	10/9/2020	H-3	156	57 ± 81	200
SPW-3793	Water	10/16/2020	H-3	157	3 ± 73	200
SPW-3835	Water	10/20/2020	Sr-89	0.55	-0.10 ± 0.43	5
SPW-3835	Water	10/20/2020	Sr-90	0.59	0.09 ± 0.28	1
SPW-4042	Water	10/23/2020	H-3	155	-6 ± 72	200
SPW-4178	Water	10/28/2020	Ra-228	1.04	0.33 ± 0.52	2
SPW-4421	Water	10/30/2020	Ra-226	0.03	0.07 ± 0.03	2
SPW-4233	Water	11/11/2020	H-3	155	78 ± 79	200
SPW-4356	Water	11/20/2020	H-3	157	52 ± 76	200
SPW-4633	Water	11/23/2020	Ra-226	0.05	0.04 ± 0.11	2
SPW-4508	Water	12/4/2020	H-3	159	-68 ± 69	200
SPW-4624	Water	12/18/2020	H-3	160	8 ± 77	200
SPW-4740	Water	12/18/2020	Ra-226	0.04	0.02 ± 0.03	2

^a Liquid sample results are reported in pCi/Liter, air filters (pCi/m³), charcoal (pCi/charcoal canister), and solid samples (pCi/g).

^b Laboratory codes: W & SPW (Water), MI (milk), AP (air filter), SO (soil), VE (vegetation), CH (charcoal canister), F (fish), U (urine).

^c I-131(G); iodine-131 as analyzed by gamma spectroscopy.

^d Activity reported is a net activity result.

TABLE A-6. Intralaboratory "Duplicate" Samples

				Concentrationa		
Lab Code ^b	Date	Analysis	First Result	Second Result	Averaged Result	Acceptance
00 00 04	4/0/0000	Db 044	2.22 + 0.42	4.04 + 0.00	4.00 + 0.00	Pass
SG-20,21	1/2/2020	Pb-214	2.23 ± 0.12 1.49 ± 0.20	1.61 ± 0.09	1.92 ± 0.08	Pass
SG-20,21	1/2/2020	Ac-228		1.42 ± 0.18	1.46 ± 0.13	Pass
AP-5060 ,5061	1/3/2020	Be-7	0.052 ± 0.014	0.063 ± 0.012	0.057 ± 0.009	Pass
AP-010720A,B	1/7/2020	Gr. Beta	0.023 ± 0.004	0.022 ± 0.004	0.022 ± 0.003	Pass
WW-72 ,73	1/7/2020	H-3	547 ± 101	478 ± 98	513 ± 70	Pass
WW-184,185	1/21/2020	H-3	265 ± 88	311 ± 90	288 ± 63	Pass
SWU-253,254	1/28/2020	Gr. Beta	1.73 ± 0.58	2.10 ± 0.62	1.92 ± 0.42	
DW-20014,20015	1/29/2020	Ra-228	3.34 ± 0.74	2.25 ± 0.70	2.80 ± 0.51	Pass
DW-20014,20015	1/29/2020	Ra-226	1.05 ± 0.15	0.64 ± 0.24	0.85 ± 0.14	Pass
S-209,210	1/31/2020	K-40	8.28 ± 0.20	7.95 ± 0.42	8.12 ± 0.23	Pass
LW-383,384	1/31/2020	Gr. Beta	1.67 ± 0.58	0.77 ± 0.52	1.22 ± 0.39	Pass
AP-020320A,B	2/3/2020	Gr. Beta	0.021 ± 0.004	0.024 ± 0.004	0.023 ± 0.003	Pass
S-362,363	2/7/2020	Pb-214	2.39 ± 0.11	2.25 ± 0.10	2.32 ± 0.07	Pass
S-362,363	2/7/2020	Ac-228	1.84 ± 0.18	1.95 ± 0.17	1.90 ± 0.12	Pass
DW-20018,20019	2/7/2020	Gr. Alpha	0.23 ± 0.86	0.37 ± 0.88	0.30 ± 0.62	Pass
DW-20018,20019	2/7/2020	Gr. Beta	0.50 ± 0.56	1.19 ± 0.63	0.85 ± 0.42	Pass
DW-20026,20027	2/7/2020	Ra-226	2.40 ± 0.21	2.11 ± 0.15	2.26 ± 0.13	Pass
DW-20026,20027	2/7/2020	Ra-228	2.60 ± 0.68	1.81 ± 0.57	2.21 ± 0.44	Pass
WW-452,453	2/17/2020	H-3	583 ± 102	678 ± 106	630 ± 74	Pass
DW-20031,20032	2/25/2020	Gr. Alpha	1.02 ± 0.77	0.80 ± 0.81	0.91 ± 0.56	Pass
DW-20031,20032	2/25/2020	Gr. Beta	1.11 ± 0.59	1.19 ± 0.58	1.15 ± 0.41	Pass
DW-20038,20039	3/3/2020	Ra-226	8.39 ± 0.43	8.78 ± 0.49	8.59 ± 0.33	Pass
DW-20038,20039	3/3/2020	Ra-228	2.81 ± 1.00	2.31 ± 0.86	2.56 ± 0.66	Pass
WW-752,753	3/13/2020	H-3	435 ± 94	393 ± 92	414 ± 66	Pass
S-868,869	3/13/2020	Pb-214	0.97 ± 0.10	0.99 ± 0.09	0.98 ± 0.07	Pass
S-868,869	3/13/2020	Ac-228	0.97 ± 0.10 0.93 ± 0.18	1.01 ± 0.23	0.97 ± 0.15	Pass
LW-977,978	3/25/2020	Gr. Beta	0.98 ± 0.53	0.92 ± 0.51	0.97 ± 0.13 0.95 ± 0.37	Pass
AP-1220 ,1221	3/31/2020	Be-7	0.063 ± 0.011	0.062 ± 0.013	0.93 ± 0.07 0.063 ± 0.009	Pass
SWT-912,913	3/31/2020	Gr. Beta	0.79 ± 0.53	0.49 ± 0.50	0.64 ± 0.37	Pass
AD 050 057	4/0/0000	5 7	0.400 + 0.007	0.050 . 0.400	0.000 . 0.004	Daga
AP-956,957	4/2/2020	Be-7	0.189 ± 0.097	0.256 ± 0.130	0.222 ± 0.081	Pass
AP-1110,1111	4/3/2020	Be-7	0.069 ± 0.012	0.072 ± 0.013	0.071 ± 0.009	Pass
WW-1047,1048	4/7/2020	H-3	438 ± 96	478 ± 98	458 ± 69	Pass
VE-1022,1023	4/8/2020	Be-7	9.28 ± 0.57	8.00 ± 0.62	8.64 ± 0.42	Pass
VE-1022,1023	4/8/2020	K-40	3.89 ± 0.67	3.94 ± 0.73	3.92 ± 0.49	Pass
S-1199,1200	4/12/2020	Pb-214	0.77 ± 0.07	0.98 ± 0.08	0.88 ± 0.05	Pass -
S-1199,1200	4/12/2020	Ac-228	1.09 ± 0.15	1.18 ± 0.17	1.14 ± 0.11	Pass
SS-1419,1420	4/14/2020	K-40	10.8 ± 0.6	9.4 ± 0.4	10.1 ± 0.4	Pass
AP-1241,1242	4/16/2020	Be-7	0.203 ± 0.113	0.245 ± 0.145	0.224 ± 0.092	Pass -
DW-20051,20052	4/23/2020	Ra-228	3.50 ± 0.85	4.60 ± 0.89	4.05 ± 0.62	Pass -
DW-20051,20052	4/23/2020	Ra-226	0.80 ± 0.10	0.60 ± 0.10	0.70 ± 0.07	Pass
SS-1310,1311	4/23/2020	K-40	7,827 ± 492	8,157 ± 505	$\textbf{7,992} \pm \textbf{352}$	Pass
LW-1375,1376	4/29/2020	Gr. Beta	1.62 ± 0.59	1.61 ± 0.58	1.62 ± 0.41	Pass

TABLE A-6. Intralaboratory "Duplicate" Samples

				Concentrationa		
·					Averaged	
Lab Code ^b	Date	Analysis	First Result	Second Result	Result	Acceptance
F-1828,1829	4/29/2020	K-40	1.35 ± 0.41	0.98 ± 0.33	1.16 ± 0.27	Pass
SG-1398,1399	5/5/2020	Pb-214	7.51 ± 0.19	8.62 ± 0.17	8.07 ± 0.13	Pass
SG-1398,1399	5/5/2020	Ac-228	6.80 ± 0.31	6.77 ± 0.27	6.79 ± 0.21	Pass
SW-1461,1462	5/7/2020	H-3	315 ± 88	320 ± 89	317 ± 63	Pass
AP-1610,1611	5/14/2020	Be-7	0.179 ± 0.101	0.172 ± 0.086	0.176 ± 0.066	Pass
DW-20062,20063	5/19/2020	Gr. Alpha	6.20 ± 1.30	5.00 ± 1.30	5.60 ± 0.92	Pass
DW-20062,20063	5/19/2020	Gr. Beta	6.09 ± 0.77	5.51 ± 0.72	5.80 ± 0.53	Pass
W-1805,1806	5/25/2020	Ra-226	0.42 ± 0.16	0.24 ± 0.17	0.33 ± 0.12	Pass
F-1763,1764	5/26/2020	K-40	2.82 ± 0.47	3.01 ± 0.45	2.92 ± 0.33	Pass
AP-052620A,B	5/26/2020	Gr. Beta	0.014 ± 0.003	0.016 ± 0.003	0.015 ± 0.002	Pass
DW-20066,20067	6/1/2020	Ra-226	0.21 ± 0.09	0.33 ±0.12	0.27 ± 0.08	Pass
DW-20066,20067	6/1/2020	Ra-228	0.05 ± 0.43	0.03 ± 0.39	0.04 ± 0.29	Pass
P-1849,1850	6/1/2020	H-3	547 ± 102	700 ± 108	624 ± 74	Pass
AP-1893 ,1894	6/4/2020	Be-7	0.164 ± 0.080	0.251 ± 0.140	0.208 ± 0.081	Pass
SW-1872,1873	6/4/2020	H-3	385 ± 94	400 ± 95	393 ± 67	Pass
AP-052620A,B	6/8/2020	Gr. Beta	0.024 ± 0.004	0.025 ± 0.005	0.024 ± 0.003	Pass
WW-2025,2026	6/16/2020	H-3	318 ± 92	320 ± 92	319 ± 65	Pass
AP-061620A,B	6/16/2020	Gr. Beta	0.017 ± 0.003	0.019 ± 0.003	0.018 ± 0.002	Pass
DW-20078,20079	6/17/2020	Ra-226	0.53 ± 0.11	0.50 ± 0.10	0.52 ± 0.07	Pass
DW-20078,20079	6/17/2020	Ra-228	1.10 ± 0.50	1.11 ± 0.50	1.11 ± 0.35	Pass
AP-2048 ,2049	6/18/2020	Be-7	0.222 ± 0.087	0.221 ± 0.092	0.221 ± 0.063	Pass
SW-2157,2158	6/23/2020	H-3	175 ± 86	235 ± 89	205 ± 62	Pass
AP-062320A,B	6/23/2020	Gr. Beta	0.021 ± 0.003	0.023 ± 0.004	0.022 ± 0.003	Pass
AP-2136 ,2137	6/25/2020	Be-7	0.242 ± 0.099	0.343 ± 0.115	0.292 ± 0.076	Pass
AP-2366 ,2367	6/30/2020	Be-7	0.144 ± 0.018	0.177 ± 0.019	0.161 ± 0.013	Pass
SWU-2180,2181	6/30/2020	H-3	105 ± 82	199 ± 87	152 ± 60	Pass
AP-2473,2474	7/1/2020	Be-7	0.079 ± 0.011	0.089 ± 0.012	0.084 ± 0.008	Pass
AP-2473,2474	7/1/2020	K-40	0.010 ± 0.006	0.015 ± 0.009	0.013 ± 0.005	Pass
AP-2408,2409	7/2/2020	Be-7	0.084 ± 0.016	0.085 ± 0.014	0.085 ± 0.011	Pass
P-2264,2265	7/6/2020	H-3	149 ± 83	144 ± 83	147 ± 59	Pass
DW-20091,20092	7/10/2020	Ra-226	0.77 ± 0.17	0.69 ± 0.24	0.73 ± 0.15	Pass
DW-20091,20092	7/10/2020	Ra-228	0.61 ± 0.56	0.59 ± 0.55	0.60 ± 0.39	Pass
SW-2450,2451	7/14/2020	H-3	410 ± 96	487 ± 99	448 ± 69	Pass
VE-2494,2495	7/16/2020	K-40	1.68 ± 0.25	2.08 ± 0.26	1.88 ± 0.18	Pass
DW-20102,20103	7/17/2020	Gr. Alpha	1.98 ± 0.82	2.65 ± 0.82	2.32 ± 0.58	Pass
DW-20102,20103	7/17/2020	Ra-226	0.84 ± 0.20	0.89 ± 0.20	0.87 ± 0.14	Pass
DW-20102,20103	7/17/2020	Ra-228	1.24 ± 0.67	1.57 ± 0.70	1.41 ± 0.48	Pass
WW-2604,2605	7/20/2020	H-3	$35,989 \pm 576$	36,039 ± 577	36,014 ± 408	Pass
SWU-2669,2670	7/28/2020	H-3	103 ± 80	101 ± 80	102 ± 57	Pass
SWU-2669,2670	7/28/2020	Gr. Beta	1.49 ± 0.56	1.05 ± 0.51	1.27 ± 0.38	Pass
S-2711,2712	7/29/2020	K-40	17.4 ± 0.9	19.6 ± 1.0	18.5 ± 0.7	Pass

TABLE A-6. Intralaboratory "Duplicate" Samples

				Concentrationa		
					Averaged	
Lab Code ^b	Date	Analysis	First Result	Second Result	Result	Acceptance
WW-2799,2800	8/4/2020	H-3	471 ± 100	437 ± 99	454 ± 70	Pass
WW-2933,2934	8/4/2020	H-3	316 ± 91	300 ± 90	308 ± 64	Pass
S-2774,2775	8/4/2020	K-40	5.9 ± 0.9	6.1 ± 0.8	6.0 ± 0.6	Pass
WW-2912,2913	8/5/2020	H-3	176 ± 84	226 ± 87	201 ± 60	Pass
F-3040,3041	8/7/2020	Gr. Beta	4.55 ± 0.12	4.63 ± 0.12	4.59 ± 0.09	Pass
F-3040,3041	8/7/2020	K-40	3.58 ± 0.42	3.32 ± 0.41	3.45 ± 0.29	Pass
WW-2867,2868	8/12/2020	H-3	169 ± 85	219 ± 86	194 ± 61	Pass
VE-2842,2843	8/12/2020	K-40	3.18 ± 0.30	3.14 ± 0.37	3.16 ± 0.24	Pass
F-2891,2892	8/14/2020	K-40	2.98 ± 0.39	2.82 ± 0.35	2.90 ± 0.26	Pass
VE-2954,2955	8/20/2020	Be-7	0.222 ± 0.106	0.283 ± 0.166	0.252 ± 0.099	Pass
VE-2954,2955	8/20/2020	K-40	4.09 ± 0.37	3.75 ± 0.38	3.92 ± 0.27	Pass
DW-20126,20127	8/25/2020	Ra-226	0.90 ± 0.07	0.73 ± 0.12	0.82 ± 0.27	Pass
DW-20126,20127	8/25/2020	Ra-228	1.55 ± 0.52	2.30 ± 0.58	1.93 ± 0.39	Pass
LW-3154,3155	8/26/2020	Gr. Beta	1.43 ± 0.60	1.33 ± 0.55	1.38 ± 0.41	Pass
VE-3084,3085	8/28/2020	Be-7	0.52 ± 0.12	0.48 ± 0.07	0.50 ± 0.07	Pass
VE-3084,3085	8/28/2020	K-40	3.87 ± 0.16	3.36 ± 0.31	3.62 ± 0.17	Pass
VE-0004,0000	0/20/2020	11-40	3.07 ± 0.10	0.00 ± 0.01	0.02 ± 0.17	
SWU-3133,3134	9/1/2020	H-3	107 ± 84	116 ± 84	111 ± 59	Pass
VE-3208,3209	9/8/2020	K-40	5.99 ± 0.43	5.85 ± 0.35	5.92 ± 0.28	Pass
VE-3187,3188	9/8/2020	Be-7	0.50 ± 0.17	0.61 ± 0.23	0.55 ± 0.14	Pass
VE-3187,3188	9/8/2020	K-40	4.64 ± 0.54	4.97 ± 0.45	4.81 ± 0.35	Pass
WW-3427 ,3428	9/10/2020	H-3	2,321 ± 163	2,323 ± 164	2,322 ± 116	Pass
DW-21033,21034	9/14/2020	Gr. Alpha	1.27 ± 0.79	0.94 ± 0.75	1.11 ± 0.54	Pass
DW-21033,21034	9/14/2020	Gr. Beta	1.02 ± 0.60	1.01 ± 0.59	1.02 ± 0.42	Pass
SG-3265,3266	9/14/2020	Pb-214	11.8 ± 0.49	10.4 ± 0.57	11.1 ± 0.38	Pass
SG-3265,3266	9/14/2020	Ac-228	18.8 ± 1.27	17.3 ± 1.36	18.0 ± 0.93	Pass
SG-3265,3266	9/14/2020	Gr. Alpha	28.0 ± 4.6	33.5 ± 4.9	30.8 ± 3.4	Pass
SG-3265,3266	9/14/2020	Gr. Beta	42.1 ± 2.8	44.5 ± 3.0	43.3 ± 2.1	Pass
VE-3315,3316	9/15/2020	Be-7	0.25 ± 0.10	0.28 ± 0.16	0.27 ± 0.09	Pass
VE-3315,3316	9/15/2020	K-40	5.48 ± 0.34	5.16 ± 0.36	5.32 ± 0.25	Pass
WW-3339 ,3340	9/16/2020	H-3	196 ± 85	199 ± 85	198 ± 60	Pass
CF-3381,3382	9/21/2020	Be-7	0.20 ± 0.10	0.19 ± 0.11	0.20 ± 0.07	Pass
CF-3381,3382	9/21/2020	K-40	5.94 ± 0.30	5.72 ± 0.29	5.83 ± 0.21	Pass
AP-092120A,B	9/21/2020	Gr. Beta	0.043 ± 0.005	0.041 ± 0.005	0.042 ± 0.004	Pass
F-3706,3707	9/26/2020	K-40	1.86 ± 0.35	1.83 ± 0.39	1.84 ± 0.26	Pass
AP-092820A,B	9/28/2020	Gr. Beta	0.021 ± 0.004	0.023 ± 0.004	0.022 ± 0.003	Pass
XW-3620 ,3621	9/30/2020	Sr-89	11,760 ± 140	12,487 ± 133	12,124 ±97	Pass
XW-3620 ,3621	9/30/2020	Sr-90	2,287 ± 45	$2,831 \pm 50$	$2,559 \pm 34$	Pass
XW-3620 ,3621	9/30/2020	Fe-55	1,623 ± 462	1,833 ±474	1,728 ± 331	Pass

TABLE A-6. Intralaboratory "Duplicate" Samples

				Concentration ^a		
Lab Code ^b	Date	Analysis	First Result	Second Result	Averaged Result	Acceptance
SW-3515,3516	10/1/2020	H-3	154 ± 86	111 ± 84	133 ± 60	Pass
DW-20141,20142	10/1/2020	Ra-226	1.34 ± 0.16	1.39 ± 0.16	1.37 ± 0.11	Pass
DW-20141,20142	10/1/2020	Ra-228	1.74 ± 0.62	2.09 ± 0.64	1.92 ± 0.45	Pass
SW-3536,3537	10/5/2020	H-3	376 ± 97	378 ± 97	377 ± 68	Pass
WW-3 727,3728	10/8/2020	H-3	152 ± 82	190 ± 84	171 ± 59	Pass
VE-3748,3749	10/12/2020	K-40	3.07 ± 0.25	2.88 ± 0.26	2.98 ± 0.18	Pass
VE-3769,3770	10/12/2020	Be-7	0.80 ± 0.31	0.51 ± 0.15	0.66 ± 0.17	Pass
VE-3769,3770	10/12/2020	K-40	5.69 ± 0.61	5.79 ± 0.39	5.74 ± 0.36	Pass
WW-4092 ,4093	10/13/2020	H-3	6,484 ± 252	6,275 ± 248	6,380 ± 177	Pass
WW-3838,3839	10/14/2020	H-3	313 ± 90	263 ± 88	288 ± 63	Pass
WW-4394.4395	11/3/2020	H-3	161 ± 83	199 ± 85	180 ± 60	Pass
WW-4587.4588	11/4/2020	H-3	6.468 ± 252	6.638 ± 255	6,553 ± 179	Pass
WW-4524.4525	11/5/2020	H-3	160 ± 86	0,030 ± 255	0,555 ± 179	Pass
VE-4415.4416	11/24/2020	Be-7	0.28 ± 0.08	0.22 ± 0.07	0.25 ± 0.05	Pass
-,						Pass
VE-4415,4416	11/24/2020	K-40	2.25 ± 0.21	2.20 ± 0.19	2.23 ± 0.14	газэ
AP-4845,4846	12/31/2020	Be-7	0.07 ± 0.01	0.06 ± 0.02	0.06 ± 0.01	Pass

Note: Duplicate analyses are performed on every twentieth sample received. Results are not listed for those analyses with activities that measure below the LLD.

^a Results are reported in units of pCi/L, except for air filters (pCi/Filter or pCi/m³), food products, vegetation, soil and sediment (pCi/g).

b AP (Air Particulate), AV (Aquatic Vegetation), BS (Bottom Sediment), CF (Cattle Feed), CH (Charcoal Canister), DW (Drinking Water), E (Egg), F (Fish), G (Grass), LW (Lake Water), MI (Milk), P (Precipitation), PM (Powdered Milk), S (Solid), SG (Sludge), SO (Soil), SS (Shoreline Sediment), SW (Surface Water), SWT (Surface Water Treated), SWU (Surface Water Untreated), VE (Vegetation), W (Water), WW (Well Water).

TABLE A-7. Department of Energy's Mixed Analyte Performance Evaluation Program (MAPEP).

				Concentrationa		
	Reference			Known	Control	
Lab Code ^b	Date	Analysis	Laboratory result	Activity	Limits ^c	Acceptance
MMP-664	2/1/2020	Gross Alpha	2.26 ± 0.14	1.24	0.37 - 2.11	Fail ^d
MMP-664	2/1/2020	Gross Beta	2.40 ± 0.07	2.00	1.00 - 3.00	Pass
MANA 526	2/1/2020	Cross Alpha	0.86 + 0.06	1.02	0.24 1.75	Pass
MAW-536	2/1/2020 2/1/2020	Gross Alpha	0.86 ± 0.06	1.03	0.31 - 1.75 2.12 - 6.36	Pass
MAW-536	2/1/2020	Gross Beta	3.79 ± 0.07	4.24	2.12 - 0.30	Pass
MASO-662	2/1/2020	Cs-134	955 ± 9	1114	78-1448	Pass
MASO-662	2/1/2020	Cs-137	1089 ± 12	1020	714 - 1326	Pass
MASO-662	2/1/2020	Co-57	1106 ± 8	1071	750 -1392	Pass
MASO-662	2/1/2020	Co-60	0.33 ± 1.26	0	NA°	Pass
MASO-662	2/1/2020	Mn-54	1022 ± 27	945	662 - 1229	Pass
MASO-662	2/1/2020	Zn-65	842 ± 17	751	526 - 976	Pass
MASO-662	2/1/2020	K-40	710 ± 42	625	438 - 813	Pass
MAW-534	2/1/2020	1-129	0.81 ± 0.09	1.001	0.701 - 1.301	Pass
MAW-599	2/1/2020	H-3	202 ± 9	196	137 - 255	Pass
MAW-599	2/1/2020	Am-241	0.41 ± 0.09	0.547	0.383 - 0.711	Pass
MAW-599	2/1/2020	Cs-134	16.1 ± 0.3	18.5	13.0 - 24.1	Pass
MAW-599	2/1/2020	Cs-137	11.5 ± 0.4	11.3	7.9 - 14.7	Pass
MAW-599	2/1/2020	Co-57	20.0 ± 0.30	19.7	13.8 - 25.6	Pass
MAW-599	2/1/2020	Co-60	10.6 ± 0.2	10.6	7.4 - 13.8	Pass
MAW-599	2/1/2020	Mn-54	20.5 ± 0.4	19.6	13.7 - 25.5	Pass
MAW-599	2/1/2020	Zn-65	24.1 ± 0.70	22.2	15.5 - 28.9	Pass
MAW-599	2/1/2020	K-40	0.57 ± 1.54	0	NA°	Pass
MAW-599	2/1/2020	Fe-55	13.3 ± 12.2	17.8	12.5 - 23.1	Pass
MAW-599	2/1/2020	Ni-63	9.72 ± 0.43	11.1	7.8 - 14.4	Pass
MAW-599	2/1/2020	Sr-90	0.07 ± 0.18	0	NA°	Pass
MAW-599	2/1/2020	Tc-99	3.41 ± 0.31	3.63	2.54 - 4.72	Pass
MAW-599	2/1/2020	Ra-226	0.56 ± 0.06	0.365	0.256 - 0.475	Fail ^e
MAW-599	2/1/2020	Pu-238	0.69 ± 0.08	0.94	0.66 - 1.22	Pass
MAW-599	2/1/2020	Pu-239/240	0.48 ± 0.07	0.737	0.516 - 0.958	Fail ^f
MAW-599	2/1/2020	U-234	1.04 ± 0.08	0.97	0.68 - 1.26	Pass
MAW-599	2/1/2020	U-238	1.02 ± 0.08	0.95	0.67 - 1.24	Pass

TABLE A-7. Department of Energy's Mixed Analyte Performance Evaluation Program (MAPEP).

		Concentration ^a								
	Reference			Known	Control					
Lab Code ^b	Date	Analysis	Laboratory result	Activity	Limits ^c	Acceptance				
MAVE-668	2/1/2020	Cs-134	3.51 ± 0.22	3.82	2.67 - 4.97	Pass				
MAVE-668	2/1/2020	Cs-137	3.04 ± 0.18	2.77	1.94 - 3.60	Pass				
MAVE-668	2/1/2020	Co-57	0.02 ± 0.03	0	NAc	Pass				
MAVE-668	2/1/2020	Co-60	2.92 ± 0.08	2.79	1.95 - 3.63	Pass				
MAVE-668	2/1/2020	Mn-54	5.16 ± 0.14	4.58	3.21 - 5.95	Pass				
MAVE-668	2/1/2020	Zn-65	4.36 ± 0.16	3.79	2.65 - 4.93	Pass				
MAW-689	2/1/2020	Ra-226	172 ± 1	189	132 - 246	Pass				
MAW-689	2/1/2020	Ra-228	65 ± 1	75	53 - 98	Pass				
MMP-3181	8/1/2020	Gross Alpha	0.45 ± 0.06	0.528	0.158 - 0.898	Pass				
MMP-3181	8/1/2020	Gross Beta	0.97 ± 0.04	0.915	0.458 - 1.373	Pass				
MADW-3101	8/1/2020	Gross Alpha	0.57 ± 0.04	0.62	0.19 - 1.05	Pass				
MADW-3101	8/1/2020	Gross Beta	0.75 ± 0.04	0.83	0.42 - 1.25	Pass				
MASO-3179	8/1/2020	Cs-134	599 ± 7	710	497 - 923	Pass				
MASO-3179	8/1/2020	Cs-137	3.33 ± 4.81	0	NAc	Pass				
MASO-3179	8/1/2020	Co-57	1145 ± 8	1100	770 - 1430	Pass				
MASO-3179	8/1/2020	Co-60	965 ± 9	1000	700 - 1300	Pass				
MASO-3179	8/1/2020	Mn-54	651 ± 11	610	427 - 793	Pass				
MASO-3179	8/1/2020	Zn-65	524 ± 14	470	329 - 611	Pass				
MASO-3179	8/1/2020	K-40	684 ± 58	622	435 - 809	Pass				
MAW-3175	8/1/2020	Cs-134	13.9 ± 0.3	15.2	10.6 - 19.8	Pass				
MAW-3175	8/1/2020	Cs-137	15.4 ± 0.4	14.3	10.0 -18.6	Pass				
MAW-3175	8/1/2020	Co-57	0.10 ± 0.16	0	NAc	Pass				
MAW-3175	8/1/2020	Co-60	12.5 ± 0.3	12.2	8.5 - 15.9	Pass				
MAW-3175	8/1/2020	Mn-54	0.07 ± 0.17	0	NAc	Pass				
MAW-3175	8/1/2020	Zn-65	18.3 ± 0.6	16.9	11.8 - 22.0	Pass				
MAW-3175	8/1/2020	K-40	1.06 ± 1.65	0	NAc	Pass				

TABLE A-7. Department of Energy's Mixed Analyte Performance Evaluation Program (MAPEP).

			ı	Concentrationa		
	Reference			Known	Control	
Lab Code ^b	Date	Analysis	Laboratory result	Activity	Limits ^c	Acceptance
MAAP-3177	8/1/2020	Cs-134	1.28 ± 0.05	1.83	1.28 - 2.38	Fail ^g
MAAP-3177	8/1/2020	Cs-137	0.981 ± 0.068	0.996	0.697 - 1.295	Pass
MAAP-3177	8/1/2020	Co-57	0.020 ± 0.027	0	NA°	Pass
MAAP-3177	8/1/2020	Co-60	1.57 ± 0.06	1.73	1.21 - 2.25	Pass
MAAP-3177	8/1/2020	Mn-54	0.751 ± 0.077	1.400	0.98 - 1.82	Fail ^h
MAAP-3177	8/1/2020	Zn-65	2.07 ± 0.15	2.00	1.40 - 2.60	Pass
MAVE-3185	8/1/2020	Cs-134	4.73 ± 0.10	4.94	3.46 - 6.42	Pass
MAVE-3185	8/1/2020	Cs-137	0.03 ± 0.06	0	NA ^c	Pass
MAVE-3185	8/1/2020	Co-57	7.83 ± 0.12	6.67	4.67 - 8.67	Pass
MAVE-3185	8/1/2020	Co-60	4.41 ± 0.10	4.13	2.89 - 5.37	Pass
MAVE-3185	8/1/2020	Mn-54	6.52 ± 0.18	5.84	4.09 - 7.59	Pass
MAVE-3185	8/1/2020	Zn-65	7.26 ± 0.19	6.38	4.47 - 8.29	Pass

^a Results are reported in units of Bq/kg (soil), Bq/L (water) or Bq/total sample (filters, vegetation).

^b Laboratory codes as follows: MAW (water), MADW (water), MAAP (air filter), MASO (soil) and MAVE (vegetation).

^c MAPEP results are presented as the known values and expected laboratory precision (1 sigma, 1 determination) and control limits as defined by the MAPEP. A known value of "zero" indicates an analysis was included in the testing series as a "false positive". MAPEP does not provide control limits.

^d The lab utilized a MAPEP specific gross alpha/beta filter calibration as discussed in the MAPEP test instructions for MAAP-664. Using the MAPEP specific calibration for MAAP-664 caused the bias to shift from low to high.

The subsequent MAPEP study result was acceptable. See Lab code MAAP-3101 (reference date 8/1/2020).

e An investigation of the Radium-226 failure was inconclusive. Subsequent Ra-226 PT analyses were satisifactory. See ERA RAD-121 and RAD-122 studies Table A-1 and NY ELAP shipment 437R Table A-2.

^f Analysis was repeated in duplicate with acceptable results: Pu-238 (0.97 & 1.10 Bq/Kg);

Pu-239 (0.83 & 0.83 Bq/Kg). The cause of the failure could not be determined.

^g Lab result barely missed lower contol limit.

h A data transcription error resulted in an erroneous reported value. The actual result (1.36 ± 0.08 Bq/L) passes.

TABLE A-8. Interlaboratory Comparison Crosscheck Program, Environmental Resource Associates (ERA)^a.

MRAD-30 Study

			Concentration	1 ^a		
Lab Code ^b	Date	Analysis	Laboratory Result	ERA Value ^c	Control Limits ^d	Acceptance
						_
ERAP-769	3/16/2020	Am-241	71.0	74.7	53.3 - 99.6	Pass
ERAP-769	3/16/2020	Cs-134	1210	1390	902 - 1700	Pass
ERAP-769	3/16/2020	Cs-137	393	351	288 - 460	Pass
ERAP-769	3/16/2020	Co-60	450.0	422.0	359.0 - 536	Pass
ERAP-769	3/16/2020	Fe-55	1200	1260	460 - 2010	Pass
ERAP-769	3/16/2020	Mn-54	< 2.4	< 50.0	0.00 - 50.0	Pass
ERAP-769	3/16/2020	Zn-65	856	694	569 - 1060	Pass
ERAP-769	3/16/2020	Pu-238	31.4	28.0	21.1 - 34.4	Pass
ERAP-769	3/16/2020	Pu-239	43.9	40.1	30.0 - 48.4	Pass
ERAP-769	3/16/2020	Sr-90	190	175	111 - 238	Pass
ERAP-769	3/16/2020	U-234	56.7	56.2	41.7 - 65.9	Pass
ERAP-769	3/16/2020	U-238	57.0	55.7	42.1 - 66.5	Pass
ERAP-771	3/16/2020	Gross Alpha	33.4	29.3	15.3 - 48.3	Pass
ERAP-771	3/16/2020	Gross Beta	68.3	66.4	40.3 - 100	Pass

^a Results obtained by Environmental Inc., Midwest Laboratory (EIML) as a participant in the crosscheck program for proficiency testing administered by Environmental Resource Associates, serving as a replacement for studies conducted previously by the Environmental Measurements Laboratory Quality Assessment Program (EML).

^b Laboratory code ERAP (air filter). Results are reported in units of (pCi/Filter).

^c The ERA Assigned values for the air filter standards are equal to 100% of the parameter present in the standard as determined by the gravimetric and/or volumetric measurements made during standard preparation as applicable.

^d The acceptance limits are established per the guidelines contained in the Department of Energy (DOE) report EML-564, Analysis of Environmental Measurements Laboratory (EML) Quality Assessment Program (QAP) Data Determination of Operational Criteria and Control Limits for Performance Evaluation Purposes or ERA's SOP for the generation of Performance Acceptance Limits.

APPENDIX B

DATA REPORTING CONVENTIONS

Data Reporting Conventions

- 1.0. All activities, except gross alpha and gross beta, are decay corrected to collection time or the end of the collection period.
- 2.0. Single Measurements

Each single measurement is reported as follows:

 $x \pm s$

where: x = value of the measurement;

s = 2σ counting uncertainty (corresponding to the 95% confidence level).

In cases where the activity is less than the lower limit of detection L, it is reported as: < L, where L = the lower limit of detection based on 4.66 σ uncertainty for a background sample.

3.0. Duplicate analyses

If duplicate analyses are reported, the convention is as follows. :

3.1 <u>Individual results:</u> For two analysis results; $x_1 \pm s_1$ and $x_2 \pm s_2$

Reported result: $x \pm s$; where $x = (1/2)(x_1 + x_2)$ and $s = (1/2)\sqrt{s_1^2 + s_2^2}$

- 3.2. Individual results: $\langle L_1, \langle L_2 \rangle$ Reported result: $\langle L_1, \langle L_2 \rangle$ Reported result: $\langle L_1, \langle L_2 \rangle$
- 3.3. Individual results: $x \pm s$, < L Reported result: $x \pm s$ if $x \ge L$; < L otherwise.
- 4.0. Computation of Averages and Standard Deviations
 - 4.1 Averages and standard deviations listed in the tables are computed from all of the individual measurements over the period averaged; for example, an annual standard deviation would not be the average of quarterly standard deviations. The average x and standard deviation "s" of a set of n numbers x₁, x₂... x_n are defined as follows:

$$\bar{x} = \frac{1}{n} \sum x$$
 $s = \sqrt{\frac{\sum (x - \bar{x})^2}{n - 1}}$

- 4.2 Values below the highest lower limit of detection are not included in the average.
- 4.3 If all values in the averaging group are less than the highest LLD, the highest LLD is reported.
- 4.4 If all but one of the values are less than the highest LLD, the single value x and associated two sigma error is reported.
- 4.5 In rounding off, the following rules are followed:
 - 4.5.1. If the number following those to be retained is less than 5, the number is dropped, and the retained numbers are kept unchanged. As an example, 11.443 is rounded off to 11.44.
 - 4.5.2. If the number following those to be retained is equal to or greater than 5, the number is dropped and the last retained number is raised by 1. As an example, 11.445 is rounded off to 11.45.

APPENDIX C REMP SAMPLING SUMMARY

TABLE C: Davis-Besse Nuclear Power Station REMP Sampling Summary January - December 2020

				Location wi Annual			
Sample Type (Units)	Type and Number of Analyses ^a	LLD♭	Indicator Locations Mean (F) ^c Range ^c	Location ^d	Mean (F) ^c Range ^c	Control Locations Mean (F) ^c Range ^c	Number Non- Routine Results ^e
Airborne Particulates (pCi/m³)	GB 458	0.003	0.026 (259/260) (0.010-0.076)	T-3, Site Boundary 1.4 mi. ESE	0.031 (52/52) (0.005-0.055)	0.026 (200/208) (0.002-0.071)	0
	Sr-89 36	0.0008	< LLD	-	-	< LLD	0
	Sr-90 36	0.0007	< LLD	-	-	< LLD	0
	GS 36						
	Be-7	0.0150	0.077 (20/20) (0.046-0.126)	T-7, Sand Beach 0.9 mi. NW	0.100 (4/4) (0.087-0.126)	0.087 (16/16) (0.065-0.110)	0
	K-40	0.031	0.026 (20/20)	T-11, Port Clinton 9.5 mi. SE	0.030 (1/1)	0.030 (16/16)	0
	Nb-95	0.0030	< LLD	-	-	< LLD	0
	Zr-95	0.0026	< LLD	-	-	< LLD	0
	Ru-103	0.0016	< LLD	-	-	< LLD	0
	Ru-106	0.0135	< LLD	-	-	< LLD	0
	Cs-134	0.0018	< LLD	-	-	< LLD	0
	Cs-137	0.0011	< LLD	-	-	< LLD	0
	Ce-141	0.0025	< LLD	-	-	< LLD	0
	Ce-144	0.0070	< LLD	-	-	< LLD	0
Airborne Iodine (pCi/m³)	I-131 458	0.07	< LLD	-	-	< LLD	0
TLD (Quarterly) (mR/91days)	Gamma 251	1.0	14.4 (191/192) (7.7-24.6)	T-154, Residence 4.0 mi. SW	21.88 (4/4) (19.3-24.6)	15.15 (40/40) (12.2-23.2)	0
TLD (Quarterly) (mR/91days) (Shield)	Gamma 4	1.0	< LLD	-	-	< LLD	0

TABLE C: Davis-Besse Nuclear Power Station REMP Sampling Summary January - December 2020

					Location with Highest Annual Mean			
Sample Type (Units)	Type and N of Analy		LLDb	Indicator Locations Mean (F) ^c Range ^c	Location ^d	Mean (F) ^c Range ^c	Control Locations Mean (F) ^c Range ^c	Number Non- Routine Results ^e
Milk (pCi/L)	I-131	2	0.4	none	-	-	< LLD	0
	Sr-89	2	0.8	none	-	-	< LLD	0
	Sr-90	2	0.5	none	-	-	< LLD	0
	GS	2						
	K-40		100	none	T-24, Sandusky 21.0 mi. SE	1379 (2/2) (1309-1449)	1379 (2/2) (1309-1449)	0
	Cs-134		4.6	none	-	-	< LLD	0
	Cs-137		3.4	none	-	-	< LLD	0
	Ba-La- 140		7.9	none	-	-	< LLD	0
(g/L)	Ca	2	0.50	none	T-24, Sandusky 21.0 mi. SE	1.07 (2/2) (0.96-1.18)	1.07 (2/2) (0.96-1.18)	0
(g/L)	K (stable)	2		none	T-24, Sandusky 21.0 mi. SE	1.69 (2/2) (1.60-1.77)	1.69 (2/2) (1.60-1.77)	0
(pCi/g)	Sr-90/Ca	2	0.52	none	-	-	< LLD	0
(pCi/g)	Cs-137/K	2	1.92	none	-	-	< LLD	0
Ground Water (pCi/L)	GB (TR)	4	3.6	none	T-29, Fenwick Marina 2.3 mi. WNW	1.35 (2/3) (1.2-1.5)	1.35 (2/4) (1.2-1.5)	0
	H-3	4	330	none	-	-	< LLD	0
	Sr-89	4	0.8	none	-	-	< LLD	0
	Sr-90	4	0.6	none	-	-	< LLD	0
	GS	4						
	Mn-54		15	none	-	-	< LLD	0
	Fe-59		30	none	-	-	< LLD	0
	Co-58		15	none	-	-	< LLD	0
	Co-60		15	none	-	-	< LLD	0
	Zn-65		30	none	-	-	< LLD	0
	Zr-95		15	none	-	-	< LLD	0
	Cs-134		10	none	-	-	< LLD	0
	Cs-137		10	none	-	-	< LLD	0
	Ba-La- 140		15	none	-	-	< LLD	0

TABLE C: Davis-Besse Nuclear Power Station REMP Sampling Summary January - December 2020

				T			Г	
					Location with Annual N			
Sample Type (Units)	Type and Nu of Analys		LLDb	Indicator Locations Mean (F) ^c Range ^c	Location ^d	Mean (F) ^c Range ^c	Control Locations Mean (F) ^c Range ^c	Number Non- Routine Results ^e
Broad Leaf								
Vegetation	Sr-89	30	0.030	< LLD	-	-	< LLD	0
(pCi/g wet)	Sr-90	30	0.021	< LLD	-	-	< LLD	0
	GS	30						
	K-40		0.50	2.93 (22/22) (1.60-4.87)	T-19, Residence 0.97 mi. W	3.42 (10/10) (2.20-4.87)	2.45 (8/8) (1.45-5.07)	0
	Nb-95		0.029	< LLD	-	-	< LLD	0
	Zr-95		0.035	< LLD	-	-	< LLD	0
	I-131		0.058	< LLD	-	-	< LLD	0
	Cs-134		0.023	< LLD	-	-	< LLD	0
	Cs-137		0.021	< LLD	-	-	< LLD	0
	Ce-141		0.045	< LLD	-	-	< LLD	0
	Ce-144		0.165	< LLD	-	-	< LLD	0
Treated Surface Water (pCi/L)	GB (TR)	24	0.9	1.44 (8/12) (1.1-2.1)	T-22, Carroll Twp Water Plant 2.1 mi. W	1.44 (8/12) (1.1-2.1)	1.24 (9/12) (0.9-1.6)	0
	H-3	8	330	<lld< td=""><td>-</td><td>-</td><td>< LLD</td><td>0</td></lld<>	-	-	< LLD	0
	Sr-89	8	0.6	< LLD	-	-	< LLD	0
	Sr-90	8	0.6	< LLD	-	-	< LLD	0
	GS	8						
	Mn-54		15	< LLD	-	-	< LLD	0
	Fe-59		30	< LLD	_	-	< LLD	0
	Co-58		15	< LLD	-	-	< LLD	0
	Co-60		15	< LLD	-	-	< LLD	0
	Zn-65		30	< LLD	-	-	< LLD	0
	Zr-Nb-9!	5	15	< LLD	-	-	< LLD	0
	Cs-134		10	< LLD	-	-	< LLD	0
	Cs-137		10	< LLD	-	-	< LLD	0
	Ba-La- 140		15	< LLD	-	-	< LLD	0

TABLE C: Davis-Besse Nuclear Power Station REMP Sampling Summary January - December 2020

					Location with Annual N			
Sample Type (Units)	Type and N of Analy		LLD♭	Indicator Locations Mean (F) ^c Range ^c	Location ^d	Mean (F) ^c Range ^c	Control Locations Mean (F) ^c Range ^c	Number Non- Routine Results ^e
Untreated Surface Water (pCi/L)	GB (TR)	36	1.8	1.62 (21/24) (0.9-3.9)	T-3, Site Boundary 1.4 mi. ESE	1.79 (11/12) (1.2-3.9)	1.35 (8/12) (0.9-1.8)	0
	H-3	36	330	< LLD	-	-	< LLD	0
	Sr-89	12	0.6	< LLD	-	-	< LLD	0
	Sr-90 GS	12 12	0.6	< LLD	-	-	< LLD	0
	Mn-54		15	< LLD	-	-	< LLD	0
	Fe-59		30	< LLD	-	-	< LLD	0
	Co-58		15	< LLD	-	-	< LLD	0
	Co-60		15	< LLD	-	-	< LLD	0
	Zn-65		30	< LLD	-	-	< LLD	0
	Zr-Nb-9	5	15	< LLD	-	-	< LLD	0
	Cs-134		10	< LLD	-	-	< LLD	0
	Cs-137		10	< LLD	-	-	< LLD	0
	Ba-La- 140		15	< LLD	-	-	< LLD	0
Fish (pCi/G wet)	GB	4	0.10	4.03 (2/2) (3.43-4.63)	T-35, Lake Erie >10 mi. NE	4.10 (2/2) (3.71-4.48)	4.10 (2/2) (3.71-4.48)	0
	GS	4						
	K-40		0.10	2.73 (2/2) (2.13-3.32)	T-35, Lake Erie >10 mi. NE	3.20 (2/2) (3.02-3.38)	3.20 (2/2) (3.02-3.38)	0
	Mn-54		0.023	< LLD	-	-	< LLD	0
	Fe-59		0.094	< LLD	-	-	< LLD	0
	Co-58		0.030	< LLD	-	-	< LLD	0
	Co-60		0.017	< LLD	-	-	< LLD	0
	Zn-65		0.044	< LLD	-	-	< LLD	0
	Cs-134		0.024	< LLD	-	-	< LLD	0
	Cs-137		0.021	< LLD	-	-	< LLD	0

TABLE C: Davis-Besse Nuclear Power Station REMP Sampling Summary January - December 2020

				Location with Highest Annual Mean			
Sample Type (Units)	Type and Number of Analyses ^a	LLDb	Indicator Locations Mean (F) ^c Range ^c	Location ^d	Mean (F) ^c Range ^c	Control Locations Mean (F) ^c Range ^c	Number Non- Routine Results ^e
Shoreline Sediments (pCi/g dry)	GB 4						
	K-40	0.10	9.30 (2/2) (9.16-9.44)	T-11, Port Clinton 9.5 mi. SE	11.97 (2/2) (11.41-12.52)	11.97 (2/2) (11.41-12.52)	0
	Mn-54	0.023	< LLD	-	-	< LLD	0
	Co-58	0.029	< LLD	-	-	< LLD	0
	Co-60	0.015	< LLD	-	-	< LLD	0
	Cs-134	0.019	< LLD	-	-	< LLD	0
	Cs-137	0.017	< LLD	-	-	< LLD	0

^a GB = Gross Beta, GS = Gamma Scan

b LLD = nominal lower limit of detection based on a 4.66 sigma counting error for background sample.

Mean and range are based on detectable only (i.e., > LLD) Fraction of detectable measurements at specified locations is indicated in parentheses (F).

d Locations are specified by station code and distance (miles) and direction relative to reactor site.

e Non-routine results are those which exceed ten times the control station value.

L-21-107 Enclosure A

Annual Radiological Environmental Operating Report – 2019 Corrections

for the

Davis-Besse Nuclear Power Station

(2 double-sided pages (4 pages total) follow, corrected pages are pages 89 and 95. Revisions are indicated by a revision bar in the right-hand margin)

Table 16 Gaseous Effluents - Mixed Mode Releases Batch Mode

Nuclide		Unit	1st Qtr 2019 ⁽¹⁾	2nd Qtr 2019 ⁽¹⁾	3rd Qtr 2019 ⁽¹⁾	4th Qtr 2019 ⁽¹⁾
Fission G	ases					
	Ar-41	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Kr-85	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Kr-85m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Kr-87	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Kr-88	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Xe-131m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Xe-133	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Xe-133m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Xe-135	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Xe-135m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Xe-138	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for	Period:		0.00E+00	0.00E+00	0.00E+00	0.00+00
*Iodines						
	I-131	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	I-133	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	I-135	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for	Period:	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
*Particulates & Tritium						
	H-3	Ci	<lld< td=""><td>1.31E-04</td><td><lld< td=""><td>6.15E-04</td></lld<></td></lld<>	1.31E-04	<lld< td=""><td>6.15E-04</td></lld<>	6.15E-04
	Sr-89	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Sr-90	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Cs-134	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Cs-137	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
	Ba-La-140	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for Period:		Ci	0.00E+00	1.31E-04	0.00E+00	6.15E-04

⁽¹⁾ LLDs for Mixed Mode Gaseous Releases – Batch Mode are listed on page 90.

^{*} Release of iodines and particulates are quantified in Mixed Mode Releases, Continuous Mode (Unit Station Vent)

Table 16 (Continued)
Gaseous Effluents - Mixed Mode Releases - Continuous Mode

		de Refeases (
Nuclide	Unit	1st Qtr 2019 ⁽²⁾	2nd Qtr 2019 ⁽²⁾	3rd Qtr 2019 ⁽²⁾	4th Qtr 2019 ⁽²⁾
Fission Gases					
Kr-85	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Kr-85m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Kr-87	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Kr-88	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-133	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-133m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-135	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-135m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Xe-138	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for Period:		0.00E+00	0.00E+00	0.00E+00	0.00E+0
Iodines					
I-131	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
I-132	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
I-133	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
I-135	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for Period:		0.00E+00	0.00E+00	0.00E+00	0.00E+0
Particulates, Tritium					
Na-24	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Co-57	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Co-58 Sr-89	Ci Ci	<lld <lld< td=""><td><lld <lld< td=""><td><lld <lld< td=""><td><lld <lld< td=""></lld<></lld </td></lld<></lld </td></lld<></lld </td></lld<></lld 	<lld <lld< td=""><td><lld <lld< td=""><td><lld <lld< td=""></lld<></lld </td></lld<></lld </td></lld<></lld 	<lld <lld< td=""><td><lld <lld< td=""></lld<></lld </td></lld<></lld 	<lld <lld< td=""></lld<></lld
Sr-90	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Sb-124	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Cs-134	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Cs-137	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ba-La-140	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Н-3	Ci	8.14E+00	8.40E+00	7.39E+00	8.34E+0
Total for Period	Ci	8.14E+00	8.40E+00	7.39E+00	8.34E+0
Carbon-14	Ci	1.02E+00	1.06E+00	1.01E+00	1.06E+0

⁽²⁾ LLDs for Mixed Mode Gaseous Releases – Continuous Mode are listed on page 90.

Table 18 (continued) Liquid Effluents – Nuclides^a Released In Continuous Releases

	m Conunu	ous Refeases			
Nuclide	Unit	1st Qtr 2019 ⁽²⁾	2nd Qtr 2019 ⁽²⁾	3rd Qtr 2019 ⁽²⁾	4th Qtr 2019 ⁽²⁾
Fission and Activation Products					
Cr-51	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Mn-54	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Fe-59	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Co-58	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Co-60	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Zn-65	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Sr-89 ^b	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Sr-90 ^b	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Zr-95	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Mo-99	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Tc-99m	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
I-131	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Cs-134	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Cs-137	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ba/La-140	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Ce-141	Ci	<lld< td=""><td><lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""><td><lld< td=""></lld<></td></lld<></td></lld<>	<lld< td=""><td><lld< td=""></lld<></td></lld<>	<lld< td=""></lld<>
Total for Period:	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Tritium	Ci	0.00E-00	0.00E+00	0.00E+00	0.00E+00
Dissolved and Entrained Gases					
Xe-133 Xe-135	Ci Ci	<lld <lld< td=""><td><lld <lld< td=""><td><lld <lld< td=""><td><lld <lld< td=""></lld<></lld </td></lld<></lld </td></lld<></lld </td></lld<></lld 	<lld <lld< td=""><td><lld <lld< td=""><td><lld <lld< td=""></lld<></lld </td></lld<></lld </td></lld<></lld 	<lld <lld< td=""><td><lld <lld< td=""></lld<></lld </td></lld<></lld 	<lld <lld< td=""></lld<></lld
Total for Period:	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00

⁽²⁾ LLDs for Liquid Releases – Continuous Mode are listed on page 95.

Table 18 (continued)
Liquid Effluents – LLDs for Nuclides Released^a

Cr-51	<1.15E-07	μCi/ml	Ar-41	<2.25E-08	μCi/ml
Mn-54	<1.84E-08	μCi/ml	I-131	<1.35E-08	μCi/ml
Fe-55 ^b	<6.80E-07	μCi/ml	Xe-131m	<6.63E - 06	μCi/ml
Co-57	<1.07E-08	μCi/ml	Xe-133	<2.64E-08	μCi/ml
Co-58	<1.35E-08	μCi/ml	Xe-133m	<6.46E - 06	μCi/ml
Fe-59	<4.93E-07	μCi/ml	Cs-134	<1.50E-08	μCi/ml
Co-60	<1.73E-08	μCi/ml	Xe-135	<1.08E-08	μCi/ml
Zn-65	<3.26E-08	μCi/ml	Cs-137	<1.99E-08	μCi/ml
Kr-85	<3.15E-06	μCi/ml	Ba-140	<4.80E-08	μCi/ml
Sr-89 ^b	<7.30E-08	μCi/ml	La-140	<2.18E-08	μCi/ml
Sr-90 ^b	<1.60E-08	μCi/ml	Ce-141	<1.82E-08	μCi/ml
Sr-92	<1.87E-08	μCi/ml	Ce-144	<7.92E-08	μCi/ml
Zr-95	<2.44E-08	μCi/ml	Nb-97	<2.39E-08	μCi/ml
Zr-97	<1.63E-08	μCi/ml	Sb-122	<1.56E-08	μCi/ml
Tc-99m	<1.12E-08	μCi/ml	Te-123m	<6.21E-09	μCi/ml
Mo-99	<8.31E-08	μCi/ml	Ni-63	<7.70E-08	μCi/ml
Ru-103	<1.25E-08	μCi/ml			
Ru-106	<1.34E-07	μCi/ml			
Ag-110m	<1.69E-08	μCi/ml			
Sb-124	<1.64E-08	μCi/ml			
Sb-125	<4.84E-08	μCi/ml			

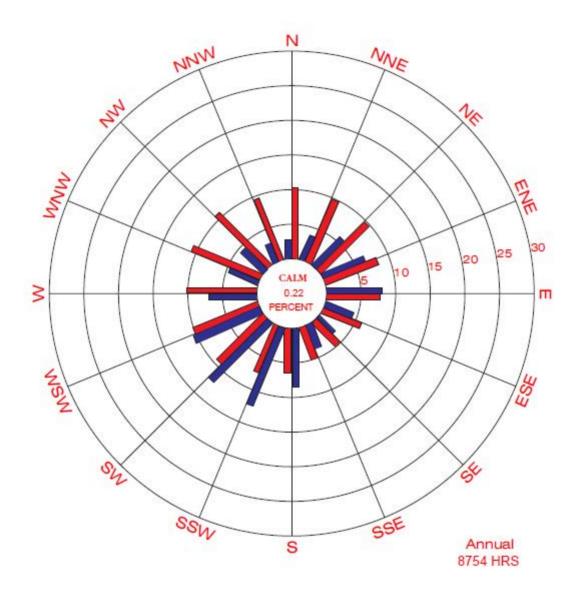
^a These radionuclides were not identified every quarter in concentrations above the lower limit of detection (LLD). LLDs are applicable to both batch and continuous modes due to identical sample and analysis methods.

^b Quarterly composite sample

2020 Radiological Effluent Release Report (RERR) Meteorological Data for the

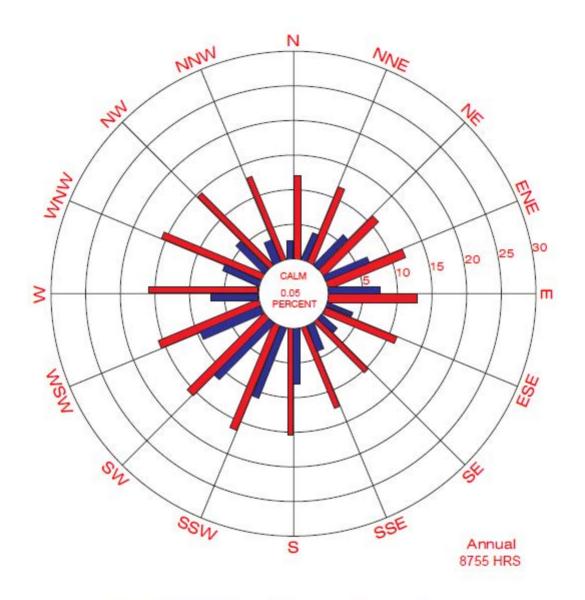
Davis-Besse Nuclear Power Station

(1 Report follows)



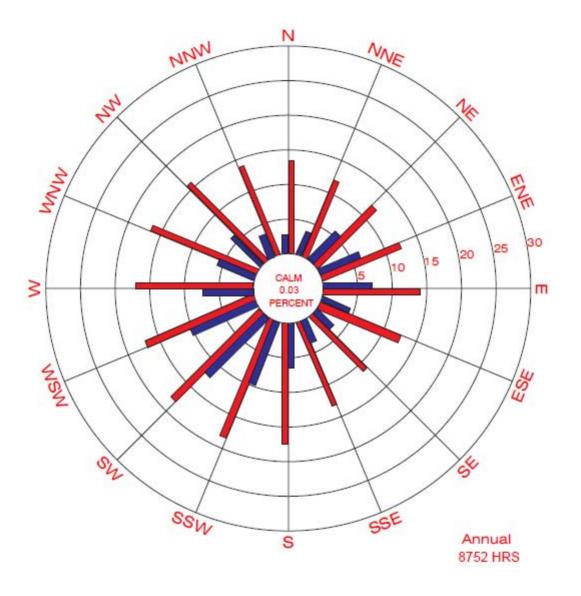


DAVIS-BESSE ANNUAL 2020 10M LEVEL





DAVIS-BESSE ANNUAL 2020 75M LEVEL





DAVIS-BESSE ANNUAL 2020 100M LEVEL

FILES USED THIS RUN ARE:

OPTIONS FILE NAME:SUMAN.CNT
INPUT FILE NAME :DBHR20R3.PRN
PRINT FILE NAME :DBSUM20.PRT
OUTPUT FILE NAME :DBSUM20.OUT

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TIME OF DAY: 11:17:15

PROGRAM: SUMMARY VERSION: PC-1.0

SUMMARY OF METEOROLOGICAL DATA 2020

NUMBER OF VARIABLES = 18

FORMAT OF THE DATA: (4(1X, I2), 18(2X, F6.2))

START DATE: 20010101 END DATE: 20123124

WIND DIR 100M 999.000 .000 360.00	-
WIND DIK 100H 555.000 .000 500.00	_
WIND SPEED 100M 999.000 .000 100.00	10
SIGMA THETA 100M 999.000 .000 50.00	0
TEMPERATURE 100M 999.000 -10.000 105.00	0
DEW POINT 100M 999.000 -10.000 100.00	0
WIND DIR 75M 999.000 .000 360.00	0
WIND SPEED 75M 999.000 .000 100.00	0
SIGMA THETA 75M 999.000 .000 50.00	0
TEMPERATURE 75M 999.000 -10.000 105.00	0
WIND DIR 10M 999.000 .000 360.00	0
WIND SPEED 10M 999.000 .000 100.00	0
SIGMA THETA 10M 999.000 .000 50.00	0
TEMPERATURE 10M 999.000 -10.000 105.00	0
DEW POINT 10M 999.000 -10.000 75.00	0
DELTA T 100-10 999.000 -4.000 8.00	0
DELTA T 100-75 999.000 -1.000 3.00	0
DELTA T 75-10 999.000 -4.000 8.00	0
PRECIPITATION 999.000 .000 .10	0 0

SAMPLE FORMAT OF THE DATA: (4(I2), 18(1X, F5.1))

 $20\ 1\ 1\ 1\ 251.8\ 20.7\ 4.4\ 25.9\ 999.0\ 246.4\ 19.5\ 4.7\ 26.4\ 242.9\ 15.4\ 7.7\ 27.7\ 999.0\ -1.9\ 999.0\ -1.2\ .0$ 20 1 1 2 252.2 20.3 4.6 26.1 999.0 246.8 19.1 5.0 26.7 242.1 14.4 7.9 27.9 999.0 -1.8 999.0 -1.2 .0 20 1 1 3 255.5 20.9 4.5 26.7 999.0 250.1 20.2 5.2 27.3 243.6 15.4 8.5 28.5 999.0 -1.7 999.0 -1.2 20 1 1 4 254.8 21.3 5.1 27.0 999.0 249.6 20.4 5.8 27.6 243.7 14.6 9.8 28.8 999.0 -1.7 999.0 -1.2 20 1 1 5 255.4 22.2 4.8 27.0 999.0 249.3 21.1 5.5 27.6 243.8 16.0 8.1 28.7 999.0 -1.7 999.0 -1.1 .0 20 1 1 6 259.9 23.7 5.8 27.0 999.0 254.2 22.1 6.4 27.5 250.4 16.4 8.2 28.6 999.0 -1.6 999.0 -1.0 .0

LAST RECORD READ 20 12 31 24

TIME OF DAY: 11:17:15

PROGRAM: SUMMARY VERSION: PC-1.0

SUMMARY OF METEOROLOGICAL DATA 2020

SUMMARY STATISTICS FOR JAN DATA SET: DBHR20R3.PRN

VARIABLE	COUNT	MEAN	MIN	DATE	MAX	DATE
WIND DIR 100M	737	222.150	.160	20011703	355.300	20011704
WIND SPEED 100M	738	16.292	.980	20013009	38.540	20011108
SIGMA THETA 100M	738	5.923	.960	20012308	94.500	20013006
TEMPERATURE 100M	741	32.478	11.230	20011912	61.770	20011111
DEW POINT 100M	0					
WIND DIR 75M	736	217.126	5.720	20010404	359.300	20011124
WIND SPEED 75M	738	14.891	1.260	20013009	35.830	20011816
SIGMA THETA 75M	738	6.357	.810	20012421	55.240	20013009
TEMPERATURE 75M	741	32.821	11.800	20011912	62.290	20011111
WIND DIR 10M	737	211.006	.430	20012824	356.000	20011124
WIND SPEED 10M	738	9.077	1.030	20013107	25.870	20011816
SIGMA THETA 10M	738	12.117	4.910	20012421	75.600	20010318
TEMPERATURE 10M	744	33.319	13.290	20011911	62.120	20011111
DEW POINT 10M	0					
DELTA T 100-10	738	844	-3.630	20012016	6.790	20012323
DELTA T 100-75	0					
DELTA T 75-10	740	502	-2.980	20012016	5.940	20012420
PRECIPITATION	744	.002	.000	20013124	.240	20011114

PROGRAM: SUMMARY VERSION: PC-1.0

SUMMARY OF METEOROLOGICAL DATA 2020

SUMMARY STATISTICS FOR FEB DATA SET: DBHR20R3.PRN

VARIABLE	COUNT	MEAN	MIN	DATE	MAX	DATE
WIND DIR 100M	684	210.058	1.750	20022013	359.900	20022011
WIND SPEED 100M	686	16.914	1.570	20022019	37.510	20020211
SIGMA THETA 100M	686	5.307	.730	20021624	81.000	20022019
TEMPERATURE 100M	691	29.584	11.290	20021504	51.280	20020217
DEW POINT 100M	0					
WIND DIR 75M	686	203.092	1.810	20021305	359.800	20022616
WIND SPEED 75M	686	15.400	1.170	20021222	36.080	20020211
SIGMA THETA 75M	686	6.095	1.010	20021624	86.900	20021222
TEMPERATURE 75M	690	29.926	10.830	20021504	51.790	20020217
WIND DIR 10M	686	198.807	1.080	20021223	360.000	20020707
WIND SPEED 10M	684	10.098	1.730	20020819	27.250	20020211
SIGMA THETA 10M	683	10.969	3.300	20021624	56.710	20021415
TEMPERATURE 10M	696	30.541	11.070	20021505	53.020	20020217
DEW POINT 10M	0					
DELTA T 100-10	683	926	-3.830	20020911	7.820	20020321
DELTA T 100-75	0					
DELTA T 75-10	689	595	-3.320	20021414	7.970	20020323
PRECIPITATION	696	.001	.000	20022924	.110	20022422

TIME OF DAY: 11:17:15

PROGRAM: SUMMARY VERSION: PC-1.0

SUMMARY OF METEOROLOGICAL DATA 2020

SUMMARY STATISTICS FOR MAR DATA SET: DBHR20R3.PRN

VARIABLE	COUNT	MEAN	MIN	DATE	MAX	DATE
WIND DIR 100M	736	173.401	.240	20030704	359.900	20033104
WIND SPEED 100M	737	16.216	1.110	20031621	51.210	20032915
SIGMA THETA 100M	736	6.669	.670	20031101	80.000	20031115
TEMPERATURE 100M	738	40.776	21.510	20030103	64.820	20032004
DEW POINT 100M	0					
WIND DIR 75M	736	166.942	.430	20031018	357.300	20030619
WIND SPEED 75M	737	14.828	1.570	20031020	49.210	20032915
SIGMA THETA 75M	736	6.969	.910	20030106	52.850	20031115
TEMPERATURE 75M	738	40.974	21.670	20030103	65.120	20032004
WIND DIR 10M	737	167.742	1.090	20032023	359.900	20032024
WIND SPEED 10M	736	9.450	1.120	20030304	36.840	20032915
SIGMA THETA 10M	737	12.574	5.040	20030602	72.300	20031921
TEMPERATURE 10M	742	41.325	20.400	20030105	65.740	20032011
DEW POINT 10M	0					
DELTA T 100-10	736	584	-3.790	20032514	7.990	20031222
DELTA T 100-75	0					
DELTA T 75-10	739	361	-3.430	20032314	7.970	20031223
PRECIPITATION	744	.004	.000	20033124	.520	20032805

PROGRAM: SUMMARY VERSION: PC-1.0

SUMMARY OF METEOROLOGICAL DATA 2020

SUMMARY STATISTICS FOR APR DATA SET: DBHR20R3.PRN

VARIABLE	COUNT	MEAN	MIN	DATE	MAX	DATE
WIND DIR 100M	717	187.240	.510	20040809	359.800	20041512
WIND SPEED 100M	718	15.718	1.200	20040224	40.510	20040723
SIGMA THETA 100M	718	7.225	.380	20042823	85.300	20040220
TEMPERATURE 100M	719	44.919	27.250	20041607	70.850	20040720
DEW POINT 100M	0					
WIND DIR 75M	718	186.560	1.700	20040113	359.100	20040111
WIND SPEED 75M	718	14.506	.950	20040224	37.600	20041312
SIGMA THETA 75M	718	7.815	1.170	20042207	77.300	20040220
TEMPERATURE 75M	719	45.231	27.170	20041607	71.220	20040720
WIND DIR 10M	718	185.898	.000	20040610	357.600	20041724
WIND SPEED 10M	718	9.455	.810	20040606	29.280	20040723
SIGMA THETA 10M	718	13.489	3.890	20040303	78.200	20040706
TEMPERATURE 10M	720	45.799	27.520	20041607	71.450	20040718
DEW POINT 10M	0					
DELTA T 100-10	718	895	-3.990	20040714	7.820	20040304
DELTA T 100-75	0					
DELTA T 75-10	717	543	-3.970	20040517	6.960	20040303
PRECIPITATION	720	.003	.000	20043023	.680	20040723

TIME OF DAY: 11:17:15

PROGRAM: SUMMARY VERSION: PC-1.0

SUMMARY OF METEOROLOGICAL DATA 2020

SUMMARY STATISTICS FOR MAY DATA SET: DBHR20R3.PRN

VARIABLE	COUNT	MEAN	MIN	DATE	MAX	DATE
HIND DID 100M	744	175 020	4.00	20050406	250 400	20050118
WIND DIR 100M	744	175.830	.460		359.400	
WIND SPEED 100M	744	16.128	1.010	20052304	34.900	20050715
SIGMA THETA 100M	744	6.421	.760	20050202	90.600	20052306
TEMPERATURE 100M	740	56.064	29.210	20050908	83.390	20052420
DEW POINT 100M	0					
WIND DIR 75M	744	171.593	.040	20053113	359.900	20050610
WIND SPEED 75M	744	14.686	1.550	20052305	33.660	20050717
SIGMA THETA 75M	744	7.255	.890	20050201	69.060	20051603
TEMPERATURE 75M	740	56.186	29.710	20050908	83.840	20052419
WIND DIR 10M	744	170.578	.210	20050408	359.800	20050405
WIND SPEED 10M	744	8.797	.730	20052524	25.730	20050717
SIGMA THETA 10M	744	14.388	3.700	20050301	76.900	20052222
TEMPERATURE 10M	744	56.735	30.940	20050908	85.100	20052419
DEW POINT 10M	0					
DELTA T 100-10	743	571	-4.000	20051616	7.970	20052624
DELTA T 100-75	0					
DELTA T 75-10	744	437	-3.320	20052313	7.970	20052701
PRECIPITATION	744	.004	.000	20053124	.280	20051822

TIME OF DAY: 11:17:15

PROGRAM: SUMMARY VERSION: PC-1.0

SUMMARY OF METEOROLOGICAL DATA 2020

SUMMARY STATISTICS FOR JUNE DATA SET: DBHR20R3.PRN

VARIABLE	COUNT	MEAN	MIN	DATE	MAX	DATE
WIND DIR 100M	720	168.927	.980	20060609	359.300	20061211
WIND SPEED 100M	720	13.684	1.340	20061909	33.830	20061017
SIGMA THETA 100M	720	8.051	.670	20062023	99.900	20062212
TEMPERATURE 100M	699	70.250	51.460	20060107	87.620	20061017
DEW POINT 100M	0					
WIND DIR 75M	720	162.803	1.050	20062119	358.000	20060616
WIND SPEED 75M	720	12.645	1.640	20060608	31.120	20061017
SIGMA THETA 75M	720	8.860	1.040	20060421	92.100	20062212
TEMPERATURE 75M	699	70.493	49.950	20060107	88.380	20061017
WIND DIR 10M	720	162.088	2.560	20061211	359.600	20060620
WIND SPEED 10M	720	7.772	.910	20062005	20.840	20062316
SIGMA THETA 10M	720	15.552	5.520	20061803	101.000	20063005
TEMPERATURE 10M	720	71.029	48.400	20060107	89.690	20061017
DEW POINT 10M	0					
DELTA T 100-10	720	646	-4.000	20062313	7.970	20060920
DELTA T 100-75	0					
DELTA T 75-10	720	360	-3.970	20062212	7.650	20062104
PRECIPITATION	720	.002	.000	20063024	.290	20061018

TIME OF DAY: 11:17:15

PROGRAM: SUMMARY VERSION: PC-1.0

SUMMARY OF METEOROLOGICAL DATA 2020

SUMMARY STATISTICS FOR JULY DATA SET: DBHR20R3.PRN

VARIABLE	COUNT	MEAN	MIN	DATE	MAX	DATE
WIND DIR 100M	744	167.302	1.750	20072412	357.700	20072411
WIND SPEED 100M	744	11.562	1.630	20072506	30.050	20071024
SIGMA THETA 100M	744	8.512	.670	20072604	82.200	20070913
TEMPERATURE 100M	705	76.682	67.590	20071406	88.730	20071819
DEW POINT 100M	0					
WIND DIR 75M	744	165.735	.460	20071216	359.400	20070713
WIND SPEED 75M	744	10.561	1.110	20072108	28.500	20071024
SIGMA THETA 75M	744	9.025	.880	20072522	74.400	20070913
TEMPERATURE 75M	705	76.939	67.320	20072808	89.190	20071819
WIND DIR 10M	744	169.015	.010	20071214	359.700	20071212
WIND SPEED 10M	744	6.349	.920	20070503	17.460	20071101
SIGMA THETA 10M	744	16.718	4.750	20070221	76.400	20070224
TEMPERATURE 10M	743	77.475	66.310	20071406	91.100	20071819
DEW POINT 10M	0					
DELTA T 100-10	744	764	-3.990	20070315	7.990	20070306
DELTA T 100-75	0					
DELTA T 75-10	744	063	-2.620	20071114	7.970	20070306
PRECIPITATION	744	.002	.000	20073124	.430	20071014

PROGRAM: SUMMARY VERSION: PC-1.0

SUMMARY OF METEOROLOGICAL DATA 2020

SUMMARY STATISTICS FOR AUG DATA SET: DBHR20R3.PRN

VARIABLE	COUNT	MEAN	MIN	DATE	MAX	DATE
WIND DIR 100M	744	173.306	2.670	20080516	359.800	20082516
WIND SPEED 100M	744	11.951	1.200	20081621	26.680	20081416
SIGMA THETA 100M	744	7.796	.500	20080602	57.920	20081612
TEMPERATURE 100M	719	72.801	57.540	20080508	88.820	20082716
DEW POINT 100M	0					
WIND DIR 75M	744	169.426	1.530	20080516	357.800	20081716
WIND SPEED 75M	744	11.003	.790	20081621	24.930	20081416
SIGMA THETA 75M	744	8.520	.570	20081923	74.500	20080705
TEMPERATURE 75M	719	73.111	56.640	20080508	89.200	20082716
WIND DIR 10M	744	172.155	.510	20080113	358.200	20081623
WIND SPEED 10M	744	6.483	.950	20081207	15.670	20082912
SIGMA THETA 10M	744	15.905	3.250	20081622	82.500	20081620
TEMPERATURE 10M	744	73.521	55.310	20080507	91.670	20082718
DEW POINT 10M	0					
DELTA T 100-10	744	652	-3.860	20080516	7.150	20082106
DELTA T 100-75	0					
DELTA T 75-10	744	.042	-3.210	20081615	7.730	20082207
PRECIPITATION	744	.003	.000	20083124	.420	20080116

PROGRAM: SUMMARY VERSION: PC-1.0

SUMMARY OF METEOROLOGICAL DATA 2020

SUMMARY STATISTICS FOR SEPT DATA SET: DBHR20R3.PRN

VARIABLE	COUNT	MEAN	MIN	DATE	MAX	DATE
WIND DIR 100M	720	163.860	.040	20090902	357.100	20092722
WIND SPEED 100M	720	14.780	.810	20090610	37.590	20090704
SIGMA THETA 100M	720	6.929	.520	20092008	68.050	20092417
TEMPERATURE 100M	706	64.898	48.320	20092909	81.310	20090319
DEW POINT 100M	0					
WIND DIR 75M	720	160.299	4.140	20091812	356.200	20090902
WIND SPEED 75M	720	13.230	1.380	20091005	35.210	20093017
SIGMA THETA 75M	720	7.509	.570	20090306	83.400	20092417
TEMPERATURE 75M	714	64.959	47.980	20092908	81.660	20090318
WIND DIR 10M	720	163.858	1.480	20092413	351.900	20091403
WIND SPEED 10M	720	7.534	1.120	20090808	25.260	20093017
SIGMA THETA 10M	720	14.788	3.350	20090424	86.100	20092415
TEMPERATURE 10M	720	65.098	48.010	20092908	83.220	20090318
DEW POINT 10M	0					
DELTA T 100-10	708	335	-3.990	20091514	7.990	20092508
DELTA T 100-75	0					
DELTA T 75-10	720	.080	-4.000	20092814	7.970	20092301
PRECIPITATION	720	.003	.000	20093024	.800	20090706

PROGRAM: SUMMARY VERSION: PC-1.0

SUMMARY OF METEOROLOGICAL DATA 2020

SUMMARY STATISTICS FOR OCT DATA SET: DBHR20R3.PRN

VARIABLE	COUNT	MEAN	MIN	DATE	MAX	DATE
WIND DIR 100M	744	198.825	.780	20102918	358.600	20102607
WIND SPEED 100M	744	15.758	1.780	20102721	34.840	20101424
SIGMA THETA 100M	744	6.629	.750	20100907	82.100	20101823
TEMPERATURE 100M	736	52.158	36.810	20103110	77.100	20100918
DEW POINT 100M	0					
WIND DIR 75M	744	197.134	2.940	20102921	359.300	20102920
WIND SPEED 75M	744	14.493	.730	20102719	31.890	20101424
SIGMA THETA 75M	744	7.293	.620	20103109	89.500	20101823
TEMPERATURE 75M	740	52.468	36.790	20103107	77.540	20100918
WIND DIR 10M	744	195.703	1.080	20102921	359.700	20102920
WIND SPEED 10M	744	8.541	.020	20102121	23.340	20102922
SIGMA THETA 10M	744	14.084	4.340	20100303	80.300	20102718
TEMPERATURE 10M	744	52.893	32.300	20103106	78.750	20100918
DEW POINT 10M	0					
DELTA T 100-10	734	713	-3.990	20100514	7.990	20101408
DELTA T 100-75	0					
DELTA T 75-10	744	362	-4.000	20102110	7.970	20102221
PRECIPITATION	744	.005	.000	20103124	.300	20102102

PROGRAM: SUMMARY VERSION: PC-1.0

SUMMARY OF METEOROLOGICAL DATA 2020

SUMMARY STATISTICS FOR NOV DATA SET: DBHR20R3.PRN

VARIABLE	COUNT	MEAN	MIN	DATE	MAX	DATE
WIND DIR 100M	720	211.866	.190	20113008	360.000	20112217
WIND SPEED 100M	719	19.491	2.880	20111622	52.800	20111513
SIGMA THETA 100M	720	4.881	.060	20110821	17.270	20111624
TEMPERATURE 100M	708	46.424	28.680	20113024	75.030	20111016
DEW POINT 100M	0					
WIND DIR 75M	720	207.500	.650	20113004	358.500	20111702
WIND SPEED 75M	720	17.631	2.860	20111624	50.830	20111513
SIGMA THETA 75M	720	5.456	.300	20110904	23.970	20111404
TEMPERATURE 75M	714	46.700	27.430	20111807	75.810	20110916
WIND DIR 10M	720	202.540	.270	20111205	356.900	20111701
WIND SPEED 10M	720	10.163	1.310	20111621	39.210	20111513
SIGMA THETA 10M	720	11.296	3.710	20110821	90.600	20111512
TEMPERATURE 10M	720	46.820	25.720	20111809	76.770	20111015
DEW POINT 10M	0					
DELTA T 100-10	706	292	-3.480	20112314	7.970	20110906
DELTA T 100-75	0					
DELTA T 75-10	720	.000	-2.990	20112314	7.970	20110821
PRECIPITATION	720	.003	.000	20113024	.190	20112523

PROGRAM: SUMMARY VERSION: PC-1.0

SUMMARY OF METEOROLOGICAL DATA 2020

SUMMARY STATISTICS FOR DEC DATA SET: DBHR20R3.PRN

VARIABLE	COUNT	MEAN	MIN	DATE	MAX	DATE
WIND DIR 100M	743	226.081	.750	20120606	359.000	20121705
WIND SPEED 100M	743	17.355	1.140	20121004	40.810	20122403
SIGMA THETA 100M	743	5.660	.870	20122907	73.800	20121315
TEMPERATURE 100M	740	32.956	15.800	20122510	54.960	20121215
DEW POINT 100M	0					
WIND DIR 75M	743	222.890	.690	20120503	359.100	20121709
WIND SPEED 75M	743	15.832	1.320	20121006	37.940	20122403
SIGMA THETA 75M	743	6.102	1.120	20120804	61.650	20121315
TEMPERATURE 75M	741	33.247	16.430	20122510	55.300	20121215
WIND DIR 10M	743	215.368	.820	20120708	356.200	20120603
WIND SPEED 10M	743	9.585	.920	20121318	25.060	20122804
SIGMA THETA 10M	743	11.676	4.070	20121008	59.970	20121315
TEMPERATURE 10M	743	33.676	17.480	20122510	56.640	20121215
DEW POINT 10M	0					
DELTA T 100-10	740	751	-3.270	20123015	7.970	20121204
DELTA T 100-75	0					
DELTA T 75-10	743	426	-3.230	20123015	7.970	20121018
PRECIPITATION	744	.001	.000	20123124	.050	20123018

PROGRAM: SUMMARY VERSION: PC-1.0

SUMMARY OF METEOROLOGICAL DATA 2020

SUMMARY STATISTICS FOR YEAR DATA SET: DBHR20R3.PRN

VARIABLE	COUNT	MEAN	MIN	DATE	MAX	DATE
WIND DIR 100M	8753	189.828	.040	20090902	360.000	20112217
WIND SPEED 100M	8757	15.471	.810	20090610	52.800	20111513
SIGMA THETA 100M	8757	6.675	.060	20110821	99.900	20062212
TEMPERATURE 100M	8642	51.534	11.230	20011912	88.820	20082716
DEW POINT 100M	0					
WIND DIR 75M	8755	185.868	.040	20053113	359.900	20050610
WIND SPEED 75M	8758	14.128	.730	20102719	50.830	20111513
SIGMA THETA 75M	8757	7.278	.300	20110904	92.100	20062212
TEMPERATURE 75M	8660	51.799	10.830	20021504	89.200	20082716
WIND DIR 10M	8757	184.523	.000	20040610	360.000	20020707
WIND SPEED 10M	8755	8.596	.020	20102121	39.210	20111513
SIGMA THETA 10M	8755	13.649	3.250	20081622	101.000	20063005
TEMPERATURE 10M	8780	52.421	11.070	20021505	91.670	20082718
DEW POINT 10M	0					
DELTA T 100-10	8714	665	-4.000	20062313	7.990	20101408
DELTA T 100-75	0					
DELTA T 75-10	8764	293	-4.000	20102110	7.970	20121018
PRECIPITATION	8784	.003	.000	20123124	.800	20090706

FILES USED THIS RUN ARE:

OPTIONS FILE NAME:JFDB001G.CNT
INPUT FILE NAME :DBHR20R1.PRN
PRINT FILE NAME :JFDB001G.PRT

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 1
TIME OF DAY: 12:33:42

PROGRAM: JFD VERSION: PC-1.2

PRINTOUT OF INPUT CONTROL DATA

TITLE: ******DAVIS-BESSE 75-10 DT, NO BACKUP *******

BEGIN DATE: 20 2 29 19 END DATE: 20 3 1 20

OPTION TO PRINT MONTHLY JFDS: NO OPTION TO PRINT SEASONAL JFDS: NO

OPTION TO PRINT STABILITY BY HOUR OF DAY: YES

OPTION TO PLACE JFD IN FILE FORMATTED FOR PAVAN/XOQDOQ: NO

OPTION TO USE 7 WIND SPEED CLASSES

INPUTTED WIND SPEED CLASSES IN MPH: .00 3.50 7.50 12.50 18.50 24.00 .00

PRIMARY MEASUREMENTS BASED ON:

WIND SPEED MEASURED AT 35.0 FEET IN MPH

BAD WIND SPEED DATA CODED: -99.00

WIND SPEED THRESHOLD: 1.00 MPH

WIND DIRECTION MEASURED AT 35.0 FEET

BAD WIND DIRECTION DATA CODED: -99.0

DELTA T MEASURED BETWEEN 250.0 FEET AND 35.0 FEET IN DEG F

BAD DELTA T CODED: -99.00

BACK-UP MEASUREMENTS BASED ON:

NO BACKUP WIND SPEED MEASUREMENTS

NO BACKUP WIND DIRECTION MEASUREMENTS

NO BACKUP STABILITY MEASUREMENTS

WIND SPEED HEIGHT TO BE USED FOR JFD: 35.00 FEET

FORMAT TO READ INPUT DATA: (4(1X,12),T84,F6.2,T77,F6.2,T126,F6.2,T2,A2,T86,A3,T79,A3,T128,A3)

FIRST DATA RECORD READ: 20 20 1 1 1 15.4 242.9 -1.2

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 2
TIME OF DAY: 12:33:42

PROGRAM: JFD VERSION: PC-1.2

******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 2/29/20 - 3/ 1/20

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

HOURLY STABILITIES

HOURS

YR MN DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
20 1 1	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 3
TIME OF DAY: 12:33:42

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 2/29/20 - 3/ 1/20

*** ANNUAL ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0 -	0	0 -	0	0 -	0	0 -	0	0	0	0	0	0	0	0	0

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01220																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0		0	0		0	0	0	0	0	0	0

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 4
TIME OF DAY: 12:33:42

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 2/29/20 - 3/ 1/20

*** ANNUAL ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0		0			0	0			0	0	0	0	0	0

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

21 1110																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	4	2	0	1	0	0	0	0	7
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0 -	5		0		0		0	0	8

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 5
TIME OF DAY: 12:33:42

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 2/29/20 - 3/ 1/20

*** ANNUAL ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	2	2	2	0	0	0	0	0	6
7.51-12.50	0	0	0	0	0	0	0	0	1	0	2	2	0	0	0	0	5
12.51-18.50	0	0	0	0	0	0	0	0	2	1	0	1	0	0	0	0	4
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	0	0	0	0	 -	3	4	3	0	0 -	0 -	0	15

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01220																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	2
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0		0	0			0		0	0 -	0	0	2

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 6
TIME OF DAY: 12:33:42

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 2/29/20 - 3/ 1/20

*** ANNUAL ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	0			0				0	0		0 -		1

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01 1110																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	4	4	2	0	0	0	0	0	10
7.51-12.50	0	0	0	0	0	0	0	0	5	2	2	3	0	0	0	0	12
12.51-18.50	0	0	0	0	0	0	0	0	2	1	0	1	0	0	0	0	4
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0 -	0	0	11	7	4	4	0	0	0	0	26

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE TIME OF DAY: 12:33:42

AGE 7

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 2/29/20 - 3/ 1/20

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 26

TOTAL NUMBER OF VALID OBSERVATIONS: 26

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 % MEAN WIND SPEED FOR THIS PERIOD: 9.0 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G .00 .00 .00 30.77 57.69 7.69 3.85

DISTRIBUTION OF WIND DIRECTION VS STABILITY NNE E ESE SE SSE S SSW SW WSW W WNW NW NNW CALM NE ENE Α В 0 1 0 D 0 0 0 0 0 0 0 5 2 0 0 0 Ε 0 0 0 0 0 0 5 3 4 3 0 0 0 0 0 F 0 0 0 0 0 0 0 0 2 0 0 0 0 0 0 G 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 11 7 4 4 0 0 0 0 TOTAL

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 8
TIME OF DAY: 12:33:42

PROGRAM: JFD VERSION: PC-1.2

LAST DATA RECORD READ: 20 20 12 31 24 -99.0 -99.0 -99.0

FILES USED THIS RUN ARE:

OPTIONS FILE NAME:JFDB002G.CNT
INPUT FILE NAME :DBHR20R1.PRN
PRINT FILE NAME :JFDB002G.PRT

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 1
TIME OF DAY: 12:41: 8

PROGRAM: JFD VERSION: PC-1.2

PRINTOUT OF INPUT CONTROL DATA

TITLE: ******DAVIS-BESSE 75-10 DT, NO BACKUP *******

BEGIN DATE: 20 3 2 12 END DATE: 20 3 2 15

OPTION TO PRINT MONTHLY JFDS: NO

OPTION TO PRINT SEASONAL JFDS: NO

OPTION TO PRINT STABILITY BY HOUR OF DAY: YES

OPTION TO PLACE JFD IN FILE FORMATTED FOR PAVAN/XOQDOQ: NO

OPTION TO USE 7 WIND SPEED CLASSES

INPUTTED WIND SPEED CLASSES IN MPH: .00 3.50 7.50 12.50 18.50 24.00 .00

PRIMARY MEASUREMENTS BASED ON:

WIND SPEED MEASURED AT 35.0 FEET IN MPH

BAD WIND SPEED DATA CODED: -99.00

WIND SPEED THRESHOLD: 1.00 MPH

WIND DIRECTION MEASURED AT 35.0 FEET

BAD WIND DIRECTION DATA CODED: -99.0

DELTA T MEASURED BETWEEN 250.0 FEET AND 35.0 FEET IN DEG F

BAD DELTA T CODED: -99.00

BACK-UP MEASUREMENTS BASED ON:

NO BACKUP WIND SPEED MEASUREMENTS

NO BACKUP WIND DIRECTION MEASUREMENTS

NO BACKUP STABILITY MEASUREMENTS

WIND SPEED HEIGHT TO BE USED FOR JFD: 35.00 FEET

FORMAT TO READ INPUT DATA: (4(1X,12),T84,F6.2,T77,F6.2,T126,F6.2,T2,A2,T86,A3,T79,A3,T128,A3)

FIRST DATA RECORD READ: 20 20 1 1 1 15.4 242.9 -1.2

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP *******
SITE IDENTIFIER: 20
DATA PERIOD EXAMINED: 3/ 2/20 - 3/ 2/20
STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

HOURLY STABILITIES HOURS

20 3 2 - - - - - - - E E E E - - - - - -

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 3
TIME OF DAY: 12:41: 8

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/ 2/20 - 3/ 2/20

*** ANNUAL ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0			0	0								0			0	0

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

SIEED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 4
TIME OF DAY: 12:41: 8

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/2/20 - 3/2/20

*** ANNUAL ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	0	0 -	0	0	0	0	0	0	0		0	0	0

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0		0	0	0	0	0	0	0 -		0	0

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE
5
TIME OF DAY: 12:41: 8

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/2/20 - 3/2/20

*** ANNUAL ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	4
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	0	0 -	0	0	0		2		0	0 -	0	0	4

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01111																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE
6
TIME OF DAY: 12:41: 8

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/ 2/20 - 3/ 2/20

*** ANNUAL ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0		0			0	0			0	0	0	0	0	0

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	1	2	1	0	0	0	0	4
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0										0		0	0	4

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE TIME OF DAY: 12:41: 8

AGE 7

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/ 2/20 - 3/ 2/20

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 4
TOTAL NUMBER OF VALID OBSERVATIONS: 4
TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 8.9 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G .00 .00 .00 .00 100.00 .00

DISTRIBUTION OF WIND DIRECTION VS STABILITY NNE E ESE SE SSE S SSW SW WSW W WNW NW NNW CALM NE ENE Α В 0 D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Ε 0 0 0 0 0 0 0 0 1 2 1 0 0 0 0 0 F 0 0 0 0 0 0 0 0 0 0 0 0 0 G 0 0 0 0 0 0 0 0 0 1 2 1 0 0 0 0 TOTAL

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 8
TIME OF DAY: 12:41: 8

PROGRAM: JFD VERSION: PC-1.2

LAST DATA RECORD READ: 20 20 12 31 24 -99.0 -99.0 -99.0

FILES USED THIS RUN ARE:

OPTIONS FILE NAME:JFDB003G.CNT
INPUT FILE NAME :DBHR20R1.PRN
PRINT FILE NAME :JFDB003G.PRT

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 1
TIME OF DAY: 12:45:19

PROGRAM: JFD VERSION: PC-1.2

PRINTOUT OF INPUT CONTROL DATA

TITLE: ******DAVIS-BESSE 75-10 DT, NO BACKUP *******

BEGIN DATE: 20 3 4 1 END DATE: 20 3 4 21

OPTION TO PRINT MONTHLY JFDS: NO

OPTION TO PRINT SEASONAL JFDS: NO

OPTION TO PRINT STABILITY BY HOUR OF DAY: YES

OPTION TO PLACE JFD IN FILE FORMATTED FOR PAVAN/XOQDOQ: NO

OPTION TO USE 7 WIND SPEED CLASSES

INPUTTED WIND SPEED CLASSES IN MPH: .00 3.50 7.50 12.50 18.50 24.00 .00

PRIMARY MEASUREMENTS BASED ON:

WIND SPEED MEASURED AT 35.0 FEET IN MPH

BAD WIND SPEED DATA CODED: -99.00

WIND SPEED THRESHOLD: 1.00 MPH

WIND DIRECTION MEASURED AT 35.0 FEET

BAD WIND DIRECTION DATA CODED: -99.0

DELTA T MEASURED BETWEEN 250.0 FEET AND 35.0 FEET IN DEG F

BAD DELTA T CODED: -99.00

BACK-UP MEASUREMENTS BASED ON:

NO BACKUP WIND SPEED MEASUREMENTS

NO BACKUP WIND DIRECTION MEASUREMENTS

NO BACKUP STABILITY MEASUREMENTS

WIND SPEED HEIGHT TO BE USED FOR JFD: 35.00 FEET

FORMAT TO READ INPUT DATA: (4(1X,I2),T84,F6.2,T77,F6.2,T126,F6.2,T2,A2,T86,A3,T79,A3,T128,A3)

FIRST DATA RECORD READ: 20 20 1 1 1 15.4 242.9 -1.2

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 2
TIME OF DAY: 12:45:19

PROGRAM: JFD VERSION: PC-1.2

******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/4/20 - 3/4/20

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

HOURLY STABILITIES

HOURS

YR MN DY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

20 1 1 ------

********DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 3
TIME OF DAY: 12:45:19

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/4/20 - 3/4/20

*** ANNUAL ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0		0			0	0			0	0	0	0	0	0

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL																0	 1

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 4
TIME OF DAY: 12:45:19

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/4/20 - 3/4/20

*** ANNUAL ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	0	0 -	0	0	0	0	0	0	0	0 -		0	1

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01220																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	2	2	2	1	0	7
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0		0	0	0	0	3		2		0	8

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 5
TIME OF DAY: 12:45:19

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/4/20 - 3/4/20

*** ANNUAL ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	2	2	1	1	0	0	0	6
7.51-12.50	0	0	0	0	0	0	0	0	0	0	1	3	1	0	0	0	5
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0		0			0			3	4			0	0	11

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE
6
TIME OF DAY: 12:45:19

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/4/20 - 3/4/20

*** ANNUAL ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	0	0 -	0	0	0	0	0	0	0		0	0	0

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
(222 22)					_	202	02	002	Ü		٠			******	2	212111	101111
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	2	2	2	1	0	0	0	7
7.51-12.50	0	0	0	0	0	0	0	0	0	0	1	6	3	2	1	0	13
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	2	3	8	4	2	2	0	21

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 7
TIME OF DAY: 12:45:19

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/4/20 - 3/4/20

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 21

TOTAL NUMBER OF VALID OBSERVATIONS: 21

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 8.5 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G .00 4.76 4.76 38.10 52.38 .00 .00

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
А	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
В	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
С	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
D	0	0	0	0	0	0	0	0	0	0	0	3	2	2	1	0	0
E	0	0	0	0	0	0	0	0	0	2	3	4	2	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	2	3	8	4	2	2	0	0

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 8
TIME OF DAY: 12:45:19

PROGRAM: JFD VERSION: PC-1.2

LAST DATA RECORD READ: 20 20 12 31 24 -99.0 -99.0 -99.0

FILES USED THIS RUN ARE:

OPTIONS FILE NAME:JFDB004G.CNT
INPUT FILE NAME :DBHR20R1.PRN
PRINT FILE NAME :JFDB004G.PRT

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 1
TIME OF DAY: 12:49:21

PROGRAM: JFD VERSION: PC-1.2

PRINTOUT OF INPUT CONTROL DATA

TITLE: ******DAVIS-BESSE 75-10 DT, NO BACKUP *******

BEGIN DATE: 20 3 23 5 END DATE: 20 3 23 22

OPTION TO PRINT MONTHLY JFDS: NO OPTION TO PRINT SEASONAL JFDS: NO

OPTION TO PRINT STABILITY BY HOUR OF DAY: YES

OPTION TO PLACE JFD IN FILE FORMATTED FOR PAVAN/XOQDOQ: NO

OPTION TO USE 7 WIND SPEED CLASSES

INPUTTED WIND SPEED CLASSES IN MPH: .00 3.50 7.50 12.50 18.50 24.00 .00

PRIMARY MEASUREMENTS BASED ON:

WIND SPEED MEASURED AT 35.0 FEET IN MPH

BAD WIND SPEED DATA CODED: -99.00

WIND SPEED THRESHOLD: 1.00 MPH

WIND DIRECTION MEASURED AT 35.0 FEET

BAD WIND DIRECTION DATA CODED: -99.0

DELTA T MEASURED BETWEEN 250.0 FEET AND 35.0 FEET IN DEG F

BAD DELTA T CODED: -99.00

BACK-UP MEASUREMENTS BASED ON:

NO BACKUP WIND SPEED MEASUREMENTS

NO BACKUP WIND DIRECTION MEASUREMENTS

NO BACKUP STABILITY MEASUREMENTS

WIND SPEED HEIGHT TO BE USED FOR JFD: 35.00 FEET

FORMAT TO READ INPUT DATA: (4(1X,I2),T84,F6.2,T77,F6.2,T126,F6.2,T2,A2,T86,A3,T79,A3,T128,A3)

FIRST DATA RECORD READ: 20 20 1 1 1 15.4 242.9 -1.2

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 2
TIME OF DAY: 12:49:21

PROGRAM: JFD VERSION: PC-1.2

******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/23/20 - 3/23/20

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

HOURLY STABILITIES

HOURS

YR MN DY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

20 1 1 ------

20 3 23 ---- D D D D D D D B A A C D D D E E D ---

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 3
TIME OF DAY: 12:49:21

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/23/20 - 3/23/20

*** ANNUAL ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	Е	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	0	0		0	0	0 -	0	0	0	0 -			2

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01111																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0		0	0	0	0	0	0	0	0	1	1

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 4
TIME OF DAY: 12:49:21

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/23/20 - 3/23/20

*** ANNUAL ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0 -	0	0		0		0	0	0	0	0	0	0		0	1

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

SIEED																	
(MPH)	N	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	1	0	2	1	1	0	0	0	0	0	0	0	0	0	2	7
7.51-12.50	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	1	5
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		3	1	2	1	1		0		0	0	0	0	0		3	12

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 5
TIME OF DAY: 12:49:21

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/23/20 - 3/23/20

*** ANNUAL ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0 -	0	0	0	0 -	0	0 -	0	0	0	0	0	0	0	2	2

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0				0			0					0			0	0

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE
6
TIME OF DAY: 12:49:21

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/23/20 - 3/23/20

*** ANNUAL ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	0	0 -	0	0	0	0	0	0	0		0	0	0

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01 1110																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	1	0	2	1	1	0	0	0	0	0	0	0	0	0	5	10
7.51-12.50	1	2	1	0	0	0	0	0	0	0	0	0	0	0	2	2	8
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL							0	0 -		0	0	0	0	0		7	18

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 7 TIME OF DAY: 12:49:21

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/23/20 - 3/23/20

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 18

TOTAL NUMBER OF VALID OBSERVATIONS: 18

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 % MEAN WIND SPEED FOR THIS PERIOD: 7.7 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

B C D E F A 11.11 5.56 5.56 66.67 11.11 .00 .00

DISTRIBUTION OF WIND DIRECTION VS STABILITY N NNE E ESE SE SSE S SSW SW WSW W WNW NW NNW CALM NEENE Α 0 1 В 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 3 D 3 2 1 1 0 0 0 0 0 0 0 0 1 0 Ε F G 1 TOTAL

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 8
TIME OF DAY: 12:49:21

PROGRAM: JFD VERSION: PC-1.2

LAST DATA RECORD READ: 20 20 12 31 24 -99.0 -99.0 -99.0

FILES USED THIS RUN ARE:

OPTIONS FILE NAME:JFDB005G.CNT
INPUT FILE NAME :DBHR20R1.PRN
PRINT FILE NAME :JFDB005G.PRT

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 1
TIME OF DAY: 12:53:44

PROGRAM: JFD VERSION: PC-1.2

PRINTOUT OF INPUT CONTROL DATA

TITLE: ******DAVIS-BESSE 75-10 DT, NO BACKUP *******

BEGIN DATE: 20 3 27 1 END DATE: 20 3 27 5

OPTION TO PRINT MONTHLY JFDS: NO OPTION TO PRINT SEASONAL JFDS: NO

OPTION TO PRINT STABILITY BY HOUR OF DAY: YES

OPTION TO PLACE JFD IN FILE FORMATTED FOR PAVAN/XOQDOQ: NO

OPTION TO USE 7 WIND SPEED CLASSES

INPUTTED WIND SPEED CLASSES IN MPH: .00 3.50 7.50 12.50 18.50 24.00 .00

PRIMARY MEASUREMENTS BASED ON:

WIND SPEED MEASURED AT 35.0 FEET IN MPH

BAD WIND SPEED DATA CODED: -99.00

WIND SPEED THRESHOLD: 1.00 MPH

WIND DIRECTION MEASURED AT 35.0 FEET

BAD WIND DIRECTION DATA CODED: -99.0

DELTA T MEASURED BETWEEN 250.0 FEET AND 35.0 FEET IN DEG F

BAD DELTA T CODED: -99.00

BACK-UP MEASUREMENTS BASED ON:

NO BACKUP WIND SPEED MEASUREMENTS

NO BACKUP WIND DIRECTION MEASUREMENTS

NO BACKUP STABILITY MEASUREMENTS

WIND SPEED HEIGHT TO BE USED FOR JFD: 35.00 FEET

FORMAT TO READ INPUT DATA: (4(1X,I2),T84,F6.2,T77,F6.2,T126,F6.2,T2,A2,T86,A3,T79,A3,T128,A3)

FIRST DATA RECORD READ: 20 20 1 1 1 15.4 242.9 -1.2

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 2

TIME OF DAY: 12:53:44

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP *******

DATA PERIOD EXAMINED: 3/27/20 - 3/27/20

SITE IDENTIFIER: 20

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

HOURLY STABILITIES

HOURS

 ******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 3
TIME OF DAY: 12:53:44

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/27/20 - 3/27/20

*** ANNUAL ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0		0		0		0			0	0			0	0

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL			0		0				0							0	

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 4
TIME OF DAY: 12:53:44

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/27/20 - 3/27/20

*** ANNUAL ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0 -	0	0 -	0	0 -	0	0 -	0	0	0	0	0	0	0	0	0

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01550																	
(MPH)	N	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	4
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	1	3	0	0	0		0	0	0		0	0	0	0	0	4

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021
TIME OF DAY: 12:53:44

3/ 2/2021 PAGE 5

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/27/20 - 3/27/20

*** ANNUAL ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0		0	0 -	0	0 -		0	0	0	0	0	0 -	0	1

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SEEED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL																	0
IUIAL	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE
6
TIME OF DAY: 12:53:44

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/27/20 - 3/27/20

*** ANNUAL ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0		0							0	0	0	0	0	0

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01 220																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	5
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0				0								0		0	0	5

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 7
TIME OF DAY: 12:53:44

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/27/20 - 3/27/20

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 5

TOTAL NUMBER OF VALID OBSERVATIONS: 5

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 9.6 MPH TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G .00 .00 .00 80.00 20.00 .00

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
А	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
В	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
E	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 8
TIME OF DAY: 12:53:44

PROGRAM: JFD VERSION: PC-1.2

LAST DATA RECORD READ: 20 20 12 31 24 -99.0 -99.0 -99.0

FILES USED THIS RUN ARE:

OPTIONS FILE NAME:JFDB006G.CNT
INPUT FILE NAME :DBHR20R1.PRN
PRINT FILE NAME :JFDB006G.PRT

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 1
TIME OF DAY: 12:56:58

PROGRAM: JFD VERSION: PC-1.2

PRINTOUT OF INPUT CONTROL DATA

TITLE: ******DAVIS-BESSE 75-10 DT, NO BACKUP *******

BEGIN DATE: 20 3 29 1 END DATE: 20 3 29 17

OPTION TO PRINT MONTHLY JFDS: NO OPTION TO PRINT SEASONAL JFDS: NO

OPTION TO PRINT STABILITY BY HOUR OF DAY: YES

OPTION TO PLACE JFD IN FILE FORMATTED FOR PAVAN/XOQDOQ: NO

OPTION TO USE 7 WIND SPEED CLASSES

INPUTTED WIND SPEED CLASSES IN MPH: .00 3.50 7.50 12.50 18.50 24.00 .00

PRIMARY MEASUREMENTS BASED ON:

WIND SPEED MEASURED AT 35.0 FEET IN MPH

BAD WIND SPEED DATA CODED: -99.00

WIND SPEED THRESHOLD: 1.00 MPH

WIND DIRECTION MEASURED AT 35.0 FEET

BAD WIND DIRECTION DATA CODED: -99.0

DELTA T MEASURED BETWEEN 250.0 FEET AND 35.0 FEET IN DEG F

BAD DELTA T CODED: -99.00

BACK-UP MEASUREMENTS BASED ON:

NO BACKUP WIND SPEED MEASUREMENTS

NO BACKUP WIND DIRECTION MEASUREMENTS

NO BACKUP STABILITY MEASUREMENTS

WIND SPEED HEIGHT TO BE USED FOR JFD: 35.00 FEET

FORMAT TO READ INPUT DATA: (4(1X,12),T84,F6.2,T77,F6.2,T126,F6.2,T2,A2,T86,A3,T79,A3,T128,A3)

FIRST DATA RECORD READ: 20 20 1 1 1 15.4 242.9 -1.2

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 2
TIME OF DAY: 12:56:58 PROGRAM: JFD VERSION: PC-1.2

******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/29/20 - 3/29/20

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

HOURLY STABILITIES

HOURS

YR MN DY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

20 1 1 ------

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 3
TIME OF DAY: 12:56:58

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/29/20 - 3/29/20

*** ANNUAL ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	0	0 -	0	0	0	0	0	0	0	0	0	0	0

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0		0			0					0			0	0

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 4
TIME OF DAY: 12:56:58

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/29/20 - 3/29/20

*** ANNUAL ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0 -	0	0	0	0 -	0	0 -	0	0	0	0	0	0	0	0	0

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01220																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	6
TOTAL	0	0	0		0			0				7	0			0	8

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 5
TIME OF DAY: 12:56:58

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/29/20 - 3/29/20

*** ANNUAL ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	2
7.51-12.50	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	3
12.51-18.50	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0 -	0		0	0	0	3	0			0	0	0	0	0	7

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

21 550																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL								0		0		0				0	2

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE
6
TIME OF DAY: 12:56:58

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/29/20 - 3/29/20

*** ANNUAL ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0		0	0	0	0	0		0	0

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

21 220																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	2
7.51-12.50	0	0	0	0	0	1	1	2	0	1	0	0	0	0	0	0	5
12.51-18.50	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	3
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	6
TOTAL	0	0	0	<u>_</u>	0			3	0			7	0	0	0	0	17

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE TIME OF DAY: 12:56:58

AGE 7

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/29/20 - 3/29/20

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 17

TOTAL NUMBER OF VALID OBSERVATIONS: 17

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 $\mbox{\$}$

MEAN WIND SPEED FOR THIS PERIOD: 18.0 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G .00 .00 .00 47.06 41.18 11.76 .00

DISTRIBUTION OF WIND DIRECTION VS STABILITY NNE E ESE SE SSE S SSW SW WSW W WNW NW NNW CALM NE ENE Α В 0 1 0 D 0 0 0 0 0 0 0 0 0 0 0 0 Ε 0 0 1 0 0 0 3 0 2 1 0 0 0 0 F 0 0 0 0 1 1 0 0 0 0 G 0 0 0 0 0 TOTAL

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 8
TIME OF DAY: 12:56:58

PROGRAM: JFD VERSION: PC-1.2

LAST DATA RECORD READ: 20 20 12 31 24 -99.0 -99.0 -99.0

FILES USED THIS RUN ARE:

OPTIONS FILE NAME:JFDB007G.CNT
INPUT FILE NAME :DBHR20R1.PRN
PRINT FILE NAME :JFDB007G.PRT

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 1
TIME OF DAY: 13: 0:18

PROGRAM: JFD VERSION: PC-1.2

PRINTOUT OF INPUT CONTROL DATA

TITLE: ******DAVIS-BESSE 75-10 DT, NO BACKUP *******

BEGIN DATE: 20 3 30 1 END DATE: 20 3 30 4

OPTION TO PRINT MONTHLY JFDS: NO OPTION TO PRINT SEASONAL JFDS: NO

OPTION TO PRINT STABILITY BY HOUR OF DAY: YES

OPTION TO PLACE JFD IN FILE FORMATTED FOR PAVAN/XOQDOQ: NO

OPTION TO USE 7 WIND SPEED CLASSES

INPUTTED WIND SPEED CLASSES IN MPH: .00 3.50 7.50 12.50 18.50 24.00 .00

PRIMARY MEASUREMENTS BASED ON:

WIND SPEED MEASURED AT 35.0 FEET IN MPH

BAD WIND SPEED DATA CODED: -99.00

WIND SPEED THRESHOLD: 1.00 MPH

WIND DIRECTION MEASURED AT 35.0 FEET

BAD WIND DIRECTION DATA CODED: -99.0

DELTA T MEASURED BETWEEN 250.0 FEET AND 35.0 FEET IN DEG F

BAD DELTA T CODED: -99.00

BACK-UP MEASUREMENTS BASED ON:

NO BACKUP WIND SPEED MEASUREMENTS

NO BACKUP WIND DIRECTION MEASUREMENTS

NO BACKUP STABILITY MEASUREMENTS

WIND SPEED HEIGHT TO BE USED FOR JFD: 35.00 FEET

FORMAT TO READ INPUT DATA: (4(1X,12),T84,F6.2,T77,F6.2,T126,F6.2,T2,A2,T86,A3,T79,A3,T128,A3)

FIRST DATA RECORD READ: 20 20 1 1 1 15.4 242.9 -1.2

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP *******
SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/30/20 - 3/30/20 STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

HOURLY STABILITIES
HOURS

 ******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 3
TIME OF DAY: 13: 0:18

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/30/20 - 3/30/20

*** ANNUAL ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	0	0		0	0	0 -	0	0		0 -	0	0	2

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01111																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0		0	0	0	0	0		0	0	0	1

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 4
TIME OF DAY: 13: 0:18

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/30/20 - 3/30/20

*** ANNUAL ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0		0		0	0			0		0	0		0	1

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0		0	0	0	0	0	0	0 -		0	0

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 5
TIME OF DAY: 13: 0:18

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/30/20 - 3/30/20

*** ANNUAL ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0 -	0	0	0	0	0	0			0	0	0	0	0	0	0

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

21 220																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		0	0	0	0	0		0		0 -	0	0	0	0 -	0	0	0

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 6
TIME OF DAY: 13: 0:18

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/30/20 - 3/30/20

*** ANNUAL ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

OLULD																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0		0		1	3	0		0	4

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE TIME OF DAY: 13: 0:18

AGE 7

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 3/30/20 - 3/30/20

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 4
TOTAL NUMBER OF VALID OBSERVATIONS: 4

TOTAL NUMBER OF VALID OBSERVATIONS: 4
TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 18.6 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G 50.00 25.00 25.00 .00 .00 .00

DISTRIBUTION OF WIND DIRECTION VS STABILITY NNE E ESE SE SSE S SSW SW WSW W WNW NW NNW CALM NEENE Α В 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 D 0 0 0 0 0 0 0 0 0 0 0 0 0 0 Ε F G 0 0 0 0 0 0 0 0 TOTAL

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 8
TIME OF DAY: 13: 0:18

PROGRAM: JFD VERSION: PC-1.2

LAST DATA RECORD READ: 20 20 12 31 24 -99.0 -99.0 -99.0

FILES USED THIS RUN ARE:

OPTIONS FILE NAME:JFDB008G.CNT
INPUT FILE NAME :DBHR20R1.PRN
PRINT FILE NAME :JFDB008G.PRT

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 1
TIME OF DAY: 13: 4:24

PROGRAM: JFD VERSION: PC-1.2

PRINTOUT OF INPUT CONTROL DATA

TITLE: ******DAVIS-BESSE 75-10 DT, NO BACKUP *******

BEGIN DATE: 20 4 6 17 END DATE: 20 4 6 20

OPTION TO PRINT MONTHLY JFDS: NO

OPTION TO PRINT SEASONAL JFDS: NO

OPTION TO PRINT STABILITY BY HOUR OF DAY: YES

OPTION TO PLACE JFD IN FILE FORMATTED FOR PAVAN/XOQDOQ: NO

OPTION TO USE 7 WIND SPEED CLASSES

INPUTTED WIND SPEED CLASSES IN MPH: .00 3.50 7.50 12.50 18.50 24.00 .00

PRIMARY MEASUREMENTS BASED ON:

WIND SPEED MEASURED AT 35.0 FEET IN MPH

BAD WIND SPEED DATA CODED: -99.00

WIND SPEED THRESHOLD: 1.00 MPH

WIND DIRECTION MEASURED AT 35.0 FEET

BAD WIND DIRECTION DATA CODED: -99.0

DELTA T MEASURED BETWEEN 250.0 FEET AND 35.0 FEET IN DEG F

BAD DELTA T CODED: -99.00

BACK-UP MEASUREMENTS BASED ON:

NO BACKUP WIND SPEED MEASUREMENTS

NO BACKUP WIND DIRECTION MEASUREMENTS

NO BACKUP STABILITY MEASUREMENTS

WIND SPEED HEIGHT TO BE USED FOR JFD: 35.00 FEET

FORMAT TO READ INPUT DATA: (4(1X,I2),T84,F6.2,T77,F6.2,T126,F6.2,T2,A2,T86,A3,T79,A3,T128,A3)

FIRST DATA RECORD READ: 20 20 1 1 1 15.4 242.9 -1.2

********DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******
SITE IDENTIFIER: 20
DATA PERIOD EXAMINED: 4/ 6/20 - 4/ 6/20
STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

HOURLY STABILITIES
HOURS

YR MN DY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

 ******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 3
TIME OF DAY: 13: 4:24

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 4/6/20 - 4/6/20

*** ANNUAL ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	0	0 -	0	0	0	0	0	0	0	0	0	0	0

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

21 220																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 4
TIME OF DAY: 13: 4:24

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 4/6/20 - 4/6/20

*** ANNUAL ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SIEED																	
(MPH)	N	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
7.51-12.50	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	3	0	1		0		0	0	0	0		0	0	4

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE
5
TIME OF DAY: 13: 4:24

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 4/6/20 - 4/6/20

*** ANNUAL ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	0	0 -	0	0	0	0	0	0	0	0	0	0	0

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

21 220																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		0	0	0	0	0		0		0 -	0	0	0	0 -	0	0	0

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE
TIME OF DAY: 13: 4:24

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 4/6/20 - 4/6/20

*** ANNUAL ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	0	0 -	0	0	0	0	0	0	0		0	0	0

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01111																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
7.51-12.50	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	3	0	1	0	0		0		0	0	0	0	0	4

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE TIME OF DAY: 13: 4:24

GE 7

PROGRAM: JFD VERSION: PC-1.2

******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 4/ 6/20 - 4/ 6/20

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 4
TOTAL NUMBER OF VALID OBSERVATIONS: 4
TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 7.6 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G .00 .00 .00 100.00 .00 .00

DISTRIBUTION OF WIND DIRECTION VS STABILITY N NNE E ESE SE SSE S SSW SW WSW W WNW NW NNW CALM NEENE Α В 0 1 0 0 0 D 0 3 0 0 0 0 0 0 0 0 0 0 Ε 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 F 0 G 0 0 0 0 0 0 0 TOTAL Ω

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 8
TIME OF DAY: 13: 4:24

PROGRAM: JFD VERSION: PC-1.2

LAST DATA RECORD READ: 20 20 12 31 24 -99.0 -99.0 -99.0

FILES USED THIS RUN ARE:

OPTIONS FILE NAME:JFDB010G.CNT
INPUT FILE NAME :DBHR20R1.PRN
PRINT FILE NAME :JFDB010G.PRT

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 1
TIME OF DAY: 13:10:30

PROGRAM: JFD VERSION: PC-1.2

PRINTOUT OF INPUT CONTROL DATA

TITLE: ******DAVIS-BESSE 75-10 DT, NO BACKUP *******

BEGIN DATE: 20 4 25 11 END DATE: 20 4 25 22

OPTION TO PRINT MONTHLY JFDS: NO OPTION TO PRINT SEASONAL JFDS: NO

OPTION TO PRINT STABILITY BY HOUR OF DAY: YES

OPTION TO PLACE JFD IN FILE FORMATTED FOR PAVAN/XOQDOQ: NO

OPTION TO USE 7 WIND SPEED CLASSES

INPUTTED WIND SPEED CLASSES IN MPH: .00 3.50 7.50 12.50 18.50 24.00 .00

PRIMARY MEASUREMENTS BASED ON:

WIND SPEED MEASURED AT 35.0 FEET IN MPH

BAD WIND SPEED DATA CODED: -99.00

WIND SPEED THRESHOLD: 1.00 MPH

WIND DIRECTION MEASURED AT 35.0 FEET

BAD WIND DIRECTION DATA CODED: -99.0

DELTA T MEASURED BETWEEN 250.0 FEET AND 35.0 FEET IN DEG F

BAD DELTA T CODED: -99.00

BACK-UP MEASUREMENTS BASED ON:

NO BACKUP WIND SPEED MEASUREMENTS

NO BACKUP WIND DIRECTION MEASUREMENTS

NO BACKUP STABILITY MEASUREMENTS

WIND SPEED HEIGHT TO BE USED FOR JFD: 35.00 FEET

FORMAT TO READ INPUT DATA: (4(1X,I2),T84,F6.2,T77,F6.2,T126,F6.2,T2,A2,T86,A3,T79,A3,T128,A3)

FIRST DATA RECORD READ: 20 20 1 1 1 15.4 242.9 -1.2

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 2
TIME OF DAY: 13:10:30 PROGRAM: JFD VERSION: PC-1.2

******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 4/25/20 - 4/25/20

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

HOURLY STABILITIES

HOURS

YR MN DY 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

20 1 1 ------

20 4 25 ******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 3
TIME OF DAY: 13:10:30

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 4/25/20 - 4/25/20

*** ANNUAL ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0		0			0	0			0	0	0	0	0	1

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

21 550																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL			0		0		0				0	0	0		0	0	2

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 4
TIME OF DAY: 13:10:30

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 4/25/20 - 4/25/20

*** ANNUAL ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0		0	0 -	0	0	0	0	0	0	0	0	0	0	2

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
12.51-18.50	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	3
18.51-24.00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	1	3	2	0	0	0	0	0	0	0	0	0	0	0	6

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 5
TIME OF DAY: 13:10:30

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 4/25/20 - 4/25/20

*** ANNUAL ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0				0				0			0	0			0	1

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

21 220																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		0	0	0	0	0		0		0 -	0	0	0	0 -		0	0

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 6
TIME OF DAY: 13:10:30

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 4/25/20 - 4/25/20

*** ANNUAL ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	0	0 -	0	0	0	0	0	0	0	0	0	0	0

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SFEED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	2
12.51-18.50	0	0	0	8	1	0	0	0	0	0	0	0	0	0	0	0	9
18.51-24.00	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		0		9	2	0	0	0	0	0	0	0	0	0	0	0	12

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE TIME OF DAY: 13:10:30

AGE 7

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 4/25/20 - 4/25/20

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 12

TOTAL NUMBER OF VALID OBSERVATIONS: 12

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 % MEAN WIND SPEED FOR THIS PERIOD: 14.2 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G 8.33 16.67 16.67 50.00 8.33 .00 .00

DISTRIBUTION OF WIND DIRECTION VS STABILITY NNE E ESE SE SSE S SSW SW WSW W WNW NW NNW CALM NEENE Α 1 В 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 D 0 3 2 0 0 0 0 0 0 1 0 0 0 Ε 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 F 0 0 G 0 0 0 0 0 0 0 TOTAL Ω

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 8
TIME OF DAY: 13:10:30

PROGRAM: JFD VERSION: PC-1.2

LAST DATA RECORD READ: 20 20 12 31 24 -99.0 -99.0 -99.0

FILES USED THIS RUN ARE:

OPTIONS FILE NAME:JFDB011G.CNT
INPUT FILE NAME :DBHR20R1.PRN
PRINT FILE NAME :JFDB011G.PRT

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 1
TIME OF DAY: 13:28: 0

PROGRAM: JFD VERSION: PC-1.2

PRINTOUT OF INPUT CONTROL DATA

TITLE: ******DAVIS-BESSE 75-10 DT, NO BACKUP *******

BEGIN DATE: 20 7 14 13 END DATE: 20 7 14 16

OPTION TO PRINT MONTHLY JFDS: NO OPTION TO PRINT SEASONAL JFDS: NO

OPTION TO PRINT STABILITY BY HOUR OF DAY: YES

OPTION TO PLACE JFD IN FILE FORMATTED FOR PAVAN/XOQDOQ: NO

OPTION TO USE 7 WIND SPEED CLASSES

INPUTTED WIND SPEED CLASSES IN MPH: .00 3.50 7.50 12.50 18.50 24.00 .00

PRIMARY MEASUREMENTS BASED ON:

WIND SPEED MEASURED AT 35.0 FEET IN MPH

BAD WIND SPEED DATA CODED: -99.00

WIND SPEED THRESHOLD: 1.00 MPH

WIND DIRECTION MEASURED AT 35.0 FEET

BAD WIND DIRECTION DATA CODED: -99.0

DELTA T MEASURED BETWEEN 250.0 FEET AND 35.0 FEET IN DEG F

BAD DELTA T CODED: -99.00

BACK-UP MEASUREMENTS BASED ON:

NO BACKUP WIND SPEED MEASUREMENTS

NO BACKUP WIND DIRECTION MEASUREMENTS

NO BACKUP STABILITY MEASUREMENTS

WIND SPEED HEIGHT TO BE USED FOR JFD: 35.00 FEET

FORMAT TO READ INPUT DATA: (4(1X,I2),T84,F6.2,T77,F6.2,T126,F6.2,T2,A2,T86,A3,T79,A3,T128,A3)

FIRST DATA RECORD READ: 20 20 1 1 1 15.4 242.9 -1.2

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP *******
SITE IDENTIFIER: 20
DATA PERIOD EXAMINED: 7/14/20 - 7/14/20
STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

HOURLY STABILITIES
HOURS

20 7 14 - - - - - - - - D D D C - - - - - -

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 3
TIME OF DAY: 13:28: 0

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 7/14/20 - 7/14/20

*** ANNUAL ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	0	0 -	0	0	0	0	0	0	0	0	0	0	0

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0		0			0					0			0	0

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 4
TIME OF DAY: 13:28: 0

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 7/14/20 - 7/14/20

*** ANNUAL ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0		1			0			0		0	0		0	1

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
7.51-12.50	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL												0				0	3

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 5
TIME OF DAY: 13:28: 0

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 7/14/20 - 7/14/20

*** ANNUAL ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0		0		0	0			0	0	0			0	0

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0				0			0					0			0	0

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 6
TIME OF DAY: 13:28: 0

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 7/14/20 - 7/14/20

*** ANNUAL ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0		0	0	0	0	0		0	0

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SIEED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	3
7.51-12.50	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0		<u>1</u>		0	0	0		0	0	0	0	0	0	0	4

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE TIME OF DAY: 13:28: 0

GE 7

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 7/14/20 - 7/14/20

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 4
TOTAL NUMBER OF VALID OBSERVATIONS: 4

TOTAL NUMBER OF VALID OBSERVATIONS: 4

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 7.0 MPH
TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G .00 .00 25.00 75.00 .00 .00 .00

DISTRIBUTION OF WIND DIRECTION VS STABILITY NNE E ESE SE SSE S SSW SW WSW W WNW NW NNW CALM NE ENE Α В 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 D 0 0 0 0 2 0 0 0 Ε 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 F 0 0 G 0 0 0 0 0 TOTAL

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 8
TIME OF DAY: 13:28: 0

PROGRAM: JFD VERSION: PC-1.2

LAST DATA RECORD READ: 20 20 12 31 24 -99.0 -99.0 -99.0

FILES USED THIS RUN ARE:

OPTIONS FILE NAME:JFDB012G.CNT
INPUT FILE NAME :DBHR20R1.PRN
PRINT FILE NAME :JFDB012G.PRT

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 1
TIME OF DAY: 13:34: 9

PROGRAM: JFD VERSION: PC-1.2

PRINTOUT OF INPUT CONTROL DATA

TITLE: ******DAVIS-BESSE 75-10 DT, NO BACKUP *******

BEGIN DATE: 20 8 3 23 END DATE: 20 8 4 3

OPTION TO PRINT MONTHLY JFDS: NO OPTION TO PRINT SEASONAL JFDS: NO

OPTION TO PRINT STABILITY BY HOUR OF DAY: YES

OPTION TO PLACE JFD IN FILE FORMATTED FOR PAVAN/XOQDOQ: NO

OPTION TO USE 7 WIND SPEED CLASSES

INPUTTED WIND SPEED CLASSES IN MPH: .00 3.50 7.50 12.50 18.50 24.00 .00

PRIMARY MEASUREMENTS BASED ON:

WIND SPEED MEASURED AT 35.0 FEET IN MPH

BAD WIND SPEED DATA CODED: -99.00

WIND SPEED THRESHOLD: 1.00 MPH

WIND DIRECTION MEASURED AT 35.0 FEET

BAD WIND DIRECTION DATA CODED: -99.0

DELTA T MEASURED BETWEEN 250.0 FEET AND 35.0 FEET IN DEG F

BAD DELTA T CODED: -99.00

BACK-UP MEASUREMENTS BASED ON:

NO BACKUP WIND SPEED MEASUREMENTS

NO BACKUP WIND DIRECTION MEASUREMENTS

NO BACKUP STABILITY MEASUREMENTS

WIND SPEED HEIGHT TO BE USED FOR JFD: 35.00 FEET

FORMAT TO READ INPUT DATA: (4(1X,12),T84,F6.2,T77,F6.2,T126,F6.2,T2,A2,T86,A3,T79,A3,T128,A3)

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***		3/ 2/2021	PAGE
PROGRAM: JFD VERSION: PC-1.2	TIME OF DAY:	13:34: 9	
********DAVIS-BESSE 75-10 DT, NO BACKUP ******* SITE IDENTIFIER: 20			
DATA PERIOD EXAMINED: 8/3/20 - 8/4/20			
STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET			
HOURLY STABILITIES HOURS			

											1.1	0010															
YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
20	1	1	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	
2.0	Q	3	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	F	E	

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 3
TIME OF DAY: 13:34: 9

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 8/3/20 - 8/4/20

*** ANNUAL ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0		0	0	0	0	0		0	0	0	0

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0		0			0				0	0		0	0	

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 4
TIME OF DAY: 13:34: 9

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 8/3/20 - 8/4/20

*** ANNUAL ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0 -	0	0	0	0 -	0	0 -	0	0	0	0	0	0 -	0	0	0

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	0	0 -	0	0 -	0	0	0	0	0	0 -	0	1	2

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 5
TIME OF DAY: 13:34: 9

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 8/3/20 - 8/4/20

*** ANNUAL ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	3
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	0	0 -		0	0	0		2	0	0 -	0 -	0	3

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01 220																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	0								0		0		0

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE
TIME OF DAY: 13:34: 9

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 8/3/20 - 8/4/20

*** ANNUAL ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0 -	0	0	0	0 -	0	0			0	0	0	0 -	0	0	0

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	1	4
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	1	0	0	0	0		0	0	0	<u> </u>	2	0	0	0	1	5

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE TIME OF DAY: 13:34: 9

GE 7

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 8/3/20 - 8/4/20

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 5
TOTAL NUMBER OF VALID OBSERVATIONS: 5
TOTAL NUMBER OF MISSING OBSERVATIONS: 0
PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %
MEAN WIND SPEED FOR THIS PERIOD: 6.5 MPH
TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G .00 .00 .00 40.00 60.00 .00

DISTRIBUTION OF WIND DIRECTION VS STABILITY NNE E ESE SE SSE S SSW SW WSW W WNW NW NNW CALM N NE ENE Α В 0 1 D 1 0 0 0 0 0 0 0 0 0 0 0 0 0 Ε 0 0 0 0 0 0 0 0 0 1 2 0 0 0 0 0 F 0 0 G 0 0 0 0 0 1 0 1 TOTAL

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 2/2021 PAGE 8
TIME OF DAY: 13:34: 9

PROGRAM: JFD VERSION: PC-1.2

LAST DATA RECORD READ: 20 20 12 31 24 -99.0 -99.0 -99.0

FILES USED THIS RUN ARE:

OPTIONS FILE NAME:JFD35ANN.CNT
INPUT FILE NAME :DBHR20R1.PRN
PRINT FILE NAME :DB20JFDL.PRT

3/ 1/2021 TIME OF DAY: 17:37:43 ******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT *** 3/ 1/2021 PAGE 1

PROGRAM: JFD VERSION: PC-1.2

PRINTOUT OF INPUT CONTROL DATA

TITLE: ******DAVIS-BESSE 75-10 DT, NO BACKUP *******

BEGIN DATE: 20 1 1 1

END DATE: 20 12 31 24

OPTION TO PRINT MONTHLY JFDS: YES OPTION TO PRINT SEASONAL JFDS: YES

OPTION TO PRINT STABILITY BY HOUR OF DAY: YES

OPTION TO PLACE JFD IN FILE FORMATTED FOR PAVAN/XOQDOQ: YES

OPTION TO USE 7 WIND SPEED CLASSES

INPUTTED WIND SPEED CLASSES IN MPH: .00 3.50 7.50 12.50 18.50 24.00 .00

PRIMARY MEASUREMENTS BASED ON:

WIND SPEED MEASURED AT 35.0 FEET IN MPH

BAD WIND SPEED DATA CODED: -99.00

WIND SPEED THRESHOLD: 1.00 MPH

WIND DIRECTION MEASURED AT 35.0 FEET

BAD WIND DIRECTION DATA CODED: -99.0

DELTA T MEASURED BETWEEN 250.0 FEET AND 35.0 FEET IN DEG F

BAD DELTA T CODED: -99.00

BACK-UP MEASUREMENTS BASED ON:

NO BACKUP WIND SPEED MEASUREMENTS

NO BACKUP WIND DIRECTION MEASUREMENTS

NO BACKUP STABILITY MEASUREMENTS

WIND SPEED HEIGHT TO BE USED FOR JFD: 35.00 FEET

FORMAT TO READ INPUT DATA: (4(1X,12),T84,F6.2,T77,F6.2,T126,F6.2,T2,A2,T86,A3,T79,A3,T128,A3)

FIRST DATA RECORD READ: 20 20 1 1 1 15.4 242.9 -1.2

3/ 1/2021 PAGE 2 TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

HOURLY STABILITIES

HOIIRS

											H	IOUF	RS													
YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
20	1	1	D	D	D	D	D	D	D	D	D	D	D	D	С	D	D	D	D	E	E	Ε	E	Ε	Ε	E
20	1	2	E	E	E	E	E	E	E	E	E	E	D	D	C	D	D	D	E	E	E	E	E	E	E	E
20	1	3	E	E	E	Ε	E	E	E	Ε	E	Ε	E	D	D	D	D	E	_	E	E	E	Ε	D	E	E
20	1	4	D	D	E	E	E	E	E	D	D	E	D	D	D	D	D	E	E	E	E	E	E	E	E	D
20	1	5	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	D	D	D
20	1	6	E	D	D	D	E	E	D	D	D	D	D	С	С	С	D	D	D	Ε	E	Ε	Ε	Ε	E	E
20	1	7	E	Ε	E	E	E	E	E	E	E	E	С	В	D	С	D	D	E	E	E	E	Ε	Ε	E	D
20	1	8	E	E	E	E	E	Ε	D	D	D	D	D	С	С	С	В	В	D	E	E	Ε	Ε	Ε	E	Ε
20	1	9	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	F	E	Ε	E	E	E	E
20		10	Ε	Ε	E	Ε	Ε	Ε	Ε	Ε	Ε	Ε	Ε	Ε	Ε	D	E	Ε	E	Ε	Ε	Ε	Ε	Ε	Ε	E
20		11	E	Ε	Ε	Е	Е	Ε	Ε	Ε	Ε	Е	Ε	F	D	D	D	D	D	D	D	D	D	D	D	D
20		12	D	D	Ε	D	D	D	D	D	D	С	В	D	С	D	D	D	D	D	D	D	D	D	D	D
20		13	D	D	D	D	Ε	Ε	Ε	Ε	Ε	Ε	D	D	D	D	D	D	D	D	D	D	Ε	D	D	D
20		14	Ε	Ε	E	D	D	Ε	Ε	D	Ε	D	D	D	D	D	D	D	D	D	D	Ε	Ε	Ε	Ε	Ε
20		15	Ε	Ε	Ε	Ε	Ε	Ε	Ε	Ε	Ε	E	D	С	В	D	D	D	D	D	D	D	D	D	D	D
20		16	E	D	D	D	Ε	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
20		17	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
20 20		18 19	D D	D	D	D	D	D	D	Ε	Ε	Ε	D	D	Ε	E	E	E	E	E	D	D	D	D	D	D E
20		20	E	D E	D F	D E	D D	D A	D A	D A	D A	D A	D D	D E	D E	D E	D D	E D	D.							
20		21	D	D	D	D	D	D	D	D	D	D	D	D	В	- -	- -	C	D	D	E	E	E	E	E	E
20		22	E	E	E	E	E	E	E	E	D	D	D	C	C	D	D	D	D	E	E	E	E	E	E	E
20		23	E	E	E	E	E	E	_	E	F	E	D	D	D	D	E	F	F	F	F	F	G	F	F	E
20	1		F	F	G	F	F	E	F	F	F	F	F	F	F	F	E	F	F	F	G	G	F	E	E	E
20		25	E	E	E	Ε	E	E	E	Ε	E	D	D	D	D	Ε	D	D	D	Ε	E	E	Е	Ε	D	D
20	1	26	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
20	1	27	-	D	D	D	D	D	D	E	D	D	D	D	D	D	С	D	D	D	D	D	Ε	D	E	D
20	1	28	D	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	D	E	D
20	1	29	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
20	1		D	D	D	D	D	D	Ε	D	D	D	D	-	D	D	D	D	D	D	D	D	D	D	D	D
20	1		Ε	D	D	D	Е	D	Ε	D	Ε	D	D	D	D	С	D	D	D	-	D	D	D	D	D	D
20	2	1	Ε	D	D	D	Ε	Ε	D	D	D	D	D	D	D	D	D	D	D	Ε	Ε	Ε	E	E	E	E
20	2	2	Ε	Ε	Ε	D	D	D	D	D	Ε	D	D	D	D	С	D	D	D	Ε	Ε	Ε	Ε	E	E	F
20 20	2	3	F	F F	F	F	F	F	G	F	F	F	D	D	Ε	Ε	Ε	_ _	Ε	Ε	E	Ε	Ε	G	G	F
20	2	4 5	E D	r D	F D	E D	E D	E D	D D	D D	D D	D D	D D	D D	D C	D D										
20	2	6	D	D	D	D	D	D D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
20	2	7	D	D	D	D	D	_	D	D	D	D	D	D	A	В	A	D	E	F	F	E	E	D	E	E
20	2	8	E	E	E	E	E	E	E	E	E	D	C	В	C	В	D	D	D	D	D	D	E	E	E	E
20	2	9	E	E	E	E	E	E	E	E	D	A	В	A	D	D	D	E	E	D	E	E	E	E	E	_
20		10	E	E	E	E	E	E	E	E	E	E	D	D	D	D	E	E	D	D	D	D	D	D	D	D
20		11	D	E	D	D	D	D	D	D	D	D	D	C	В	В	D	D	D	D	D	D	E	D	E	E
20	2	12	D	D	E	E	E	Ε	E	E	Ε	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
20	2	13	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
20	2	14	D	D	D	-	D	D	D	D	D	В	Α	Α	Α	Α	Α	D	D	D	D	Ε	Ε	Ε	Ε	E

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

HOURLY STABILITIES

HOIIRS

											H	IOUF	RS													
YR I	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
20	2.	15	Ε	Ε	Ε	Ε	Ε	Ε	Ε	Ε	D	D	D	В	D	D	D	D	_	D	D	Ε	Ε	Ε	Ε	E
20		16	E	E	E	E	E	E	E	E	E	C	C	C	В	C	C	D	D	E	E	E	E	E	F	F
20	2	17	F	E	Ε	D	D	Ε	E	D	_	D	В	A	В	С	F	_	D	D	D	D	D	Ε	D	E
20	2	18	E	Ε	Ε	_	_	Ε	Ε	E	Ε	D	D	D	D	D	D	С	D	D	Ε	Ε	E	Ε	D	D
20	2	19	E	E	E	Ε	E	Ε	D	D	D	В	Α	_	_	Α	В	С	В	D	E	E	Ε	E	Ε	D
20		20	D	D	D	D	D	D	D	D	D	D	С	D	D	Α	Α	С	_	D	D	E	Е	D	Ε	E
20	2	21	E	E	E	E	E	D	D	D	D	С	В	Α	Α	Α	В	С	D	D	E	_	E	E	E	E
20	2	22	E	Ε	D	D	E	Ε	E	E	D	D	С	В	С	С	С	D	D	E	Ε	F	Ε	E	Ε	F
20	2	23	F	F	F	F	F	E	E	E	E	E	E	E	E	D	D	D	D	E	E	Ε	E	E	E	F
20	2	24	F	F	F	F	F	F	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
20	2	25	E	E	Ε	E	E	D	D	_	D	D	D	D	D	D	D	D	D	D	E	Ε	Ε	E	D	D
20	2	26	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
20	2	27	D	D	Ε	Ε	E	Ε	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	Ε	Ε	E
20	2	28	E	E	D	D	D	D	D	D	D	D	С	С	С	В	D	D	D	D	D	D	D	D	D	D
20	2	29	D	D	Ε	D	Ε	Ε	Ε	Ε	D	С	D	Α	В	С	С	D	D	D	D	Ε	Ε	Ε	Ε	Ε
20	3	1	Ε	Ε	Ε	F	F	G	Е	Ε	Ε	D	D	D	D	D	D	D	Ε	Ε	Е	Ε	E	Ε	Е	Ε
20	3	2	E	Ε	Е	F	F	F	F	Ε	Ε	Е	Ε	Е	Ε	Ε	Е	Ε	Ε	Ε	Ε	Ε	Ε	Ε	-	F
20	3	3	E	F	F	F	F	F	F	G	F	F	Ε	Ε	D	Ε	Ε	D	D	D	E	Ε	E	Ε	Ε	E
20	3	4	Ε	Ε	Е	Ε	Ε	Ε	Ε	Ε	D	D	D	D	В	D	С	D	D	D	Ε	Е	Ε	Ε	Е	Ε
20	3	5	Ε	Ε	Ε	F	F	F	F	F	D	D	D	D	С	С	В	D	D	Ε	F	G	F	Ε	Ε	Ε
20	3	6	E	Ε	Ε	E	Ε	Ε	D	D	D	D	D	D	Ε	D	D	D	D	D	D	D	D	D	D	D
20	3	7	D	D	D	D	D	D	D	D	D	С	В	A	В	В	D	D	D	D	Ε	Ε	F	Ε	Ε	F
20	3	8	Ε	-	Ε	Ε	Ε	Ε	Ε	Ε	Ε	D	С	В	A	A	В	В	D	D	Ε	Ε	Ε	Ε	Ε	E
20 20	3	9 10	E F	E F	E F	E E	Ε	Ε	E E	E E	E E	D	D	D	D	D	D	D C	D	D	E	Ε	E	Ε	E F	E F
20		11	F	E	E	E	E	E E	E	D.	E D	E D	E D	E D	D D	A D	A E	E	D E	D D	E D	E D	E	E D	r D	E
20		12	D	D	D	D	E	E	D	E	E	D	D	D	E	E	E	F	D	F	F	E	F	G	G	G
20		13	F	E	E	E	E	E	E	E	D	D	C	В	В	В	В	В	C	D	D	E	E	E	E	E
20		14	E	F	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	_
20		15	D	D	D	D	D	D	D	_	D	D	D	D	D	C	C	A	В	D	С	D	D	D	D	D
20		16	D	D	D	D	D	D	D	D	D	D	С	C	D	D	D	D	E	D	D	D	E	D	D	D
20		17	E	E	Ε	D	D	D	D	D	D	D	D	D	D	D	В	Α	С	D	D	Е	Ε	_	Ε	E
20	3	18	F	F	F	F	F	F	F	E	Ε	D	D	D	D	D	D	E	D	D	D	D	D	D	D	D
20	3	19	D	D	D	D	D	D	D	D	D	D	С	В	С	Ε	E	Ε	D	_	Ε	F	G	Ε	Ε	E
20	3	20	E	Ε	E	E	E	E	E	E	E	E	D	D	Α	В	В	-	С	D	D	D	D	D	D	D
20	3	21	D	D	D	D	D	D	D	D	D	-	D	D	D	D	D	D	D	D	D	D	D	D	D	D
20	3	22	D	D	D	D	D	-	D	D	D	С	Α	Α	В	Α	-	С	D	D	D	D	D	D	Ε	D
20	3	23	D	D	D	D	D	D	D	D	D	D	D	D	В	Α	Α	С	D	D	D	Ε	Ε	D	D	Ε
20		24	E	D	D	D	D	D	D	D	D	D	D	D	D	D	С	D	D	D	D	D	D	D	-	D
20		25	D	D	D	D	D	D	D	D	D	D	D	С	В	В	D	D	Ε	F	D	Е	Е	F	F	F
20	3		F	F	F	F	F	Ε	Ε	Ε	Ε	D	D	D	С	Α	D	Ε	F	F	F	F	Ε	Ε	F	D
20		27	D	D	D	D	Ε	Ε	D	D	D	D	D	В	С	С	С	В	В	D	D	D	D	D	D	D
20	3		D	D	D	Ε	D	Ε	Ε	Ε	Ε	D	D	D	D	D	D	D	D	Ε	Ε	D	D	D	D	D
20		29	E	F	F	E	Ε	E	E	E	Ε	D	D	D	D	D	D	D	D	D	D	Ε	Ε	Ε	A	В
20	3	30	Α	Α	C	В	D	С	C	С	В	В	D	С	С	D	D	D	D	D	D	D	D	D	D	D

3/ 1/2021 PAGE 4 TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

HOURLY STABILITIES

											Н	OUF	RS													
YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
20	3	31	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
20	4	1	D	D	D	D	D	D	D	D	D	D	D	С	В	В	В	В	D	D	D	D	E	E	Ε	_
20	4	2	_	E	E	F	F	E	F	E	С	Α	А	Α	Α	А	Α	D	E	E	D	E	E	F	E	G
20	4	3	G	G	G	G	E	E	E	F	E	E	D	E	D	D	D	D	С	D	D	E	E	D	D	E
20	4	4	E	E	D	D	D	D	E	E	D	D	D	D	D	D	E	F	F	F	E	D	F	E	D	D
20	4	5	D	D	D	D	D	D	D	D	D	D	D	D	С	D	В	Α	Α	Α	D	D	E	Ε	E	E
20	4	6	E	D	E	E	E	E	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	Ε	D
20	4	7	E	E	E	E	D	F	E	F	E	E	D	С	D	Ε	E	D	D	D	E	E	E	F	E	E
20	4	8	E	F	Ε	F	E	Ε	Ε	D	D	В	Α	-	Α	Α	D	В	E	Ε	Ε	-	F	F	F	E
20	4	9	E	Ε	Ε	E	E	Ε	D	D	E	D	Α	Α	D	С	С	D	D	D	D	D	D	E	E	E
20	4	10	E	E	E	E	D	D	D	D	D	С	Α	Α	Α	Α	Α	Α	С	D	D	D	D	D	D	E
20	4	11	E	E	E	E	E	E	E	F	D	В	Α	Α	Α	Α	В	С	В	D	D	E	E	E	E	E
20		12	Ε	Ε	Ε	Ε	Ε	Ε	Ε	D	D	D	D	D	D	D	D	С	D	D	Ε	Ε	Ε	Ε	Ε	E
20		13	Ε	F	Ε	F	Е	Е	Е	Е	Ε	Ε	D	D	D	D	D	D	D	D	D	D	Ε	D	Ε	Ε
20		14	Ε	Е	Ε	Ε	Е	Е	Е	Е	D	D	D	В	Α	Α	В	В	D	D	D	D	D	Ε	Ε	Ε
20		15	E	Ε	Ε	E	E	Ε	Ε	E	D	D	С	D	D	D	D	С	В	Α	А	D	E	Ε	Ε	Ε
20		16	Ε	Ε	Ε	E	Ε	Ε	Ε	D	А	Α	С	D	D	С	С	В	В	D	С	Ε	Ε	Ε	Е	Ε
20		17	E	Е	Ε	F	F	Е	Е	D	D	D	D	D	D	D	Е	D	D	D	D	-	Е	D	D	D
20		18	Ε	Ε	Е	E	F	Е	Е	D	Α	Α	A	A	Α	Α	В	С	D	D	D	D	Е	E	Е	E
20		19	Ε	Ε	Ε	E	Ε	Е	Ε	Ε	D	D	D	С	С	С	D	A	D	D	D	D	D	D	D	D
20		20	D	D	D	D	D	D	D	D	С	A	A	D	D	D	С	A	A	D	D	Ε	Ε	E	Ε	E
20	4		Ε	Ε	Ε	Ε	Ε	Ε	Ε	D	D	D	A	A	A	В	A	A	В	D	D	D	Ε	Ε	Ε	Ε
20		22	Ε	Ε	Ε	Ε	Ε	Ε	F	Ε	D	D	D	D	D	D	D	D	D	D	Ε	E	E	Ε	D	E
20 20		23 24	Ε	E	E D	E D	Ε	Ε	E	D	D	D	С	В	D	C D	D	D	D	D	D	D	D	D	D E	D
20		25	D E	D E	D	D	D D	D C	В	D A	D B	D C	D D	D D	D D	D E	D D	D.	E E							
20		26	D	D	D	E	E	E	E	E	E	E	D	D	E	D	E	E	E	D	D	D	D	D	E	D
20		27	E	E	E	E	F	F	G	F	D	В	C	D	A	A	В	А	D	D	D	E	E	E	E	E
20		28	E	E	E	E	E	E	E	E	D	В	C	A	C	D	C	F	F	F	F	E	E	E	F	E
20		29	F	E	E	E	G	F	F	F	E	E	E	D	D	D	D	D	D	D	D	D	D	E	D	D
20	4	30	D	D	D	D	D	D	D	D	D	E	D	E	D	D	В	A	A	D	D	D	D	D	D	E
20	5	1	D	D	D	D	E	Ε	E	E	D	D	А	В	Α	D	Α	Α	В	D	E	E	E	F	F	F
20	5	2	F	F	Ε	E	E	Ε	E	D	D	D	D	D	D	D	D	С	D	E	E	E	E	E	E	F
20	5	3	E	F	F	E	E	Ε	E	D	D	Α	А	С	E	D	D	D	Ε	E	E	E	E	E	F	F
20	5	4	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	В	В	С	D	D	D	D	D	D
20	5	5	D	D	D	D	D	D	D	D	D	С	В	В	В	С	В	В	D	D	D	D	D	D	D	D
20	5	6	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	С	D	D	С	D	E	E	F	F
20	5	7	F	F	F	F	F	Ε	Ε	E	D	В	В	В	Α	В	Α	Α	В	С	D	D	E	E	E	D
20	5	8	D	D	D	D	D	D	D	D	D	D	С	D	D	D	D	D	D	D	D	D	D	D	D	D
20	5	9	D	D	D	E	Ε	D	D	D	D	Α	Α	Α	Α	В	С	С	С	D	С	D	E	Ε	Ε	E
20		10	Ε	Ε	Ε	Ε	Ε	Ε	Ε	D	D	D	D	С	D	D	В	С	D	Α	D	Ε	Ε	Ε	D	D
20	5		D	D	D	D	Ε	Ε	D	D	D	D	D	D	В	A	Α	А	С	D	D	D	D	D	D	D
20		12	Ε	E	E	F	E	Ε	E	E	D	С	В	А	С	В	Α	С	В	С	D	E	E	E	E	D
20	5	13	D	D	D	E	Ε	Ε	Ε	D	С	С	D	С	А	Α	Α	А	В	С	С	D	D	D	D	D
20	5	14	D	D	D	D	Ε	Ε	Ε	D	Ε	D	D	D	D	D	Ε	F	G	Ε	Ε	Ε	Ε	Ε	Ε	Ε

3/ 1/2021 PAGE 5 TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

HOURLY STABILITIES

										F	IOUF	RS													
YR I	MN DY	-	L 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
20	5 15	I	S E	E	E	F	F	E	Ε	D	С	D	Ε	Ε	Ε	Ε	С	D	D	D	Ε	Ε	F	F	F
20	5 16]	· G	F	E	Ε	E	E	E	D	В	С	D	В	Α	Α	Α	Α	Α	Α	D	E	D	D	D
20	5 17	I) E	D	D	D	D	D	D	D	D	В	D	Α	D	D	D	D	Α	D	D	D	D	D	D
20	5 18	Ι	E D	D	D	D	D	D	D	D	D	E	В	F	Ε	G	F	D	D	D	D	D	D	D	D
20	5 19	I	E D	D	E	Ε	E	E	E	Ε	D	D	С	Α	D	D	D	D	Α	D	E	Ε	Ε	E	F
20	5 20	I	E E	E	E	Ε	D	D	D	D	D	D	D	D	D	D	D	С	С	D	D	D	E	E	Ε
20	5 21	I	E E	E	E	Ε	E	E	D	D	С	D	D	С	D	D	D	D	D	D	Ε	F	F	E	Ε
20	5 22	I	E E	E	Ε	Ε	Ε	Ε	E	D	D	D	D	D	Ε	Ε	D	D	D	D	D	Ε	Ε	E	E
20	5 23]	F	E	F	F	Ε	D	E	D	В	Α	Α	Α	Α	D	D	D	D	D	Ε	Ε	Ε	F	F
20	5 24]	F	' G	F	Ε	F	F	E	D	В	В	D	D	D	D	D	D	D	D	Ε	Ε	F	F	F
20	5 25	1	F	F	Ε	F	F	F	Ε	D	D	D	С	D	D	D	D	Ε	D	Е	Ε	Е	Ε	F	F
20	5 26	(3 F	F	Ε	F	F	G	Ε	Ε	D	D	D	С	D	D	Ε	D	Е	Е	Ε	Ε	Ε	Ε	G
20	5 27		3 F		F	F	F	E	E	D	D	D	D	D	D	D	D	E	Ε	E	F	F	G	G	F
20	5 28		F		Ε	Ε	D	D	D	D	D	С	D	D	D	D	D	Ε	D	D	D	Ε	Ε	Ε	F
20	5 29		F		Ε	Ε	E	Ε	D	D	D	С	D	D	D	Е	A	A	Α	Α	Ε	Ε	Ε	Ε	E
20	5 30		S E		E	E	Ε	E	D	В	A	A	A	A	A	A	Α	С	D	D	D	Ε	Ε	D	D
20	5 31				D	D	D	D	D	C	D	D	D	D	D	C	C	C	D	D	D	Ε	Ε	E	E
20	6 1		S E		E	F	Ε	F	D	D	В	В	C	В	С	В	В	D	D	D	D	Ε	Ε	Ε	Ε
20	6 2		E		Ε	Ε	Ε	Ε	Ε	D	D	D	С	C	С	D	D	D	D	D	Ε	Ε	Ε	Ε	E
20	6 3 6 4		EE		E G	E	E F	E E	D	D	D	С	В	С	A D	D	С	D	D	D	Ε	E E	F	F	F E
20 20	6 5		: r : E		E	G F	r F	E	D D	D B	D A	D E	C E	D D	D D	C D	C D	D D	D E	D E	E E	E G	E F	F F	E G
20	6 6		7 F		F	E	r E	D.	E	D	D	D	D	D	В	С	E	D	D	E	E	D	r D	r D	D
20	6 7) [D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	E	E	E	E
20	6 8		E		E	D	E	D	D	D	В	C	D	D	D	C	D	D	D	D	D	D	E	E	E
20	6 9				F	G	G	F	E	D	D	D	D	E	D	D	D	D	E	E	G	E	D	E	F
20	6 10		- E		E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	D
20	6 11	I) [D	D	E	D	D	D	D	С	С	В	В	Α	С	Α	С	D	D	E	E	E	F	F
20	6 12	I) E	E	Ε	Ε	Ε	D	С	В	D	D	D	D	D	D	D	D	Ε	D	D	D	D	D	F
20	6 13]	F	F	F	Ε	D	D	С	С	С	С	С	В	Α	Α	Α	Α	С	D	D	D	D	D	D
20	6 14	I) [) D	D	D	D	D	D	D	С	В	В	В	Α	Α	Α	Α	D	D	D	D	D	D	D
20	6 15	I) D	D	D	D	D	D	С	В	В	D	В	В	В	В	В	С	D	D	D	D	E	E
20	6 16	I	S E	E	Ε	Ε	Ε	E	D	D	D	С	D	D	С	С	В	D	D	D	D	Ε	Ε	Ε	E
20	6 17		S E		Ε	Ε	Ε	E	D	D	D	С	D	D	D	D	D	Ε	Е	D	Ε	Ε	Ε	Ε	E
20	6 18		E E		E	Ε	Ε	E	D	D	D	D	D	D	D	D	С	В	D	D	Ε	Ε	Ε	E	Ε
20	6 19		E		F	F	F	Ε	Ε	Ε	D	D	Ε	Ε	D	D	D	D	Е	D	Ε	Е	Ε	Ε	F
20	6 20		· F		F	F	F	F	Ε	D	D	D	D	D	С	Α	D	D	D	Ε	Ε	Е	Ε	Ε	Ε
20	6 21		S E		G	G	F	F	D	Ε	D	D	D	С	С	В	D	D	D	Е	D	Е	F	D	D
20	6 22		5 E		E	Ε	Ε	D	D	D	E	D	A	A	A	A	Ε	В	В	D	D	Ε	Ε	Ε	Ε
20	6 23		5 E		D	D	D	Ε	D	D	D	D	A	В	E	F	В	С	D	D	D	Ε	Ε	Ε	Ε
20	6 24		5 E		E	E	E	E	D	E	В	A	A	В	В	A	В	D	D	D	D	E	E	F	F
20 20	6 25 6 26		FE		E F	F	E	F	E	D	D	D	С	С	D	D	D E	В	D	D	D	E	E	F	F
20	6 27		r r E E		D.	F D	G D	F C	F A	D A	D A	D A	D A	D A	C A	D A	B	D D	E D	D D	D D	D E	D D	E E	E E
20	6 28		s r S E		E	D D	E	D	A D	A D	D A	D	D	D	D A	D A	D	E	D D	D D	D D	E	E	E	E
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3/ 1/2021 PAGE 6 TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

HOURLY STABILITIES

HOURS

YR	MN	DY	1	2	3	4	5	6	7	8		10UF 10		12	13	14	15	16	17	18	19	20	21	22	23	24
20	6	29	F	E	F	F	F	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
20	6	30	E	F	G	F	F	F	G	E	D	E	E	E	E	D	D	D	D	С	D	D	E	E	E	E
20	7	1	E	Ε	Ε	Ε	E	Ε	E	D	D	С	С	D	D	С	С	С	С	D	D	D	Ε	Ε	E	Ε
20	7	2	E	E	Ε	D	E	Ε	E	D	Ε	Ε	E	D	D	С	С	D	D	D	D	Ε	Ε	Ε	F	F
20	7	3	G	G	G	G	F	G	F	F	D	Α	E	D	Ε	С	E	D	Α	Ε	Ε	Ε	E	E	E	E
20	7	4	Ε	Ε	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	Ε	D	Ε	Ε	Ε	Ε	F
20	7	5	F	G	F	F	G	F	F	F	Ε	Ε	D	Ε	Ε	D	D	D	D	D	Ε	Ε	E	Ε	Ε	F
20	7	6	F	G	G	F	F	Ε	E	F	Ε	Ε	Ε	D	D	D	D	D	D	D	Ε	Ε	Ε	Ε	Ε	E
20	7	7	F	F	F	F	Ε	Ε	Ε	Ε	D	D	В	Ε	Ε	Ε	E	D	D	D	Ε	Ε	E	D	D	D
20 20	7	8 9	E F	E E	E E	E E	E E	E F	D F	D E	D E	C E	D E	E D	D	D E	D E	D D	D D	D D	D	E E	G E	G	G E	E F
20	7	10	F	F	F	F	E	F	E	E	E D	E D	E D	D	D D	E D	E	E	D	F	D E	E	E D	D D	E D	r D
20	7		D	E	E	E	D	D	D	D	C	A	A	A	A	A	A	A	A	В	C	D	E	F	F	F
20	7		F	F	F	F	E	D	D	D	E	D	D	D	E	E	E	E	E	E	D	D	D	Ē	D	D
20	7		D	D	D	E	D	E	D	D	D	E	E	D	E	E	D	E	E	D	D	D	E	E	E	E
20	7	14	F	F	F	E	E	E	E	E	D	D	D	E	D	D	D	С	D	D	D	E	E	E	E	E
20	7	15	E	E	E	E	E	E	F	E	E	D	E	D	D	D	D	D	D	D	D	D	E	E	E	E
20	7	16	E	E	Ε	E	E	Ε	E	E	Ε	D	D	D	D	Ε	E	D	D	D	D	D	D	D	E	E
20	7	17	E	E	E	E	E	E	E	D	D	С	А	В	Α	D	E	D	D	Ε	D	D	E	E	E	F
20	7		F	F	G	F	F	F	G	Ε	D	D	D	С	С	С	С	D	D	D	D	E	E	Ε	Ε	Ε
20	7		Ε	E	E	E	Ε	Ε	Ε	D	D	D	D	D	D	D	D	D	Ε	Ε	E	Ε	D	Ε	D	D
20 20	7		Ε	Ε	Ε	D	Ε	D	Ε	D	D	D	D	D	D	D	D	D	D	D	D	Ε	Ε	Ε	F	F E
20	7		F E	F D	E E	D E	D D	D D	E D	E D	D D	E D	D D	E B	E C	E D	E D	E E	D E	D D	D D	E D	D E	E E	E E	E
20	7		E	E	E	E	D	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
20	7	24	D	E	D	D	D	D	D	E	E	E	E	E	E	E	D	E	E	D	E	E	D	E	E	F
20	7		F	F	F	F	G	F	F	F	D	D	E	D	D	E	D	D	D	D	D	E	E	F	F	F
20	7	26	F	F	F	F	F	F	E	E	D	D	С	С	С	С	В	D	С	D	D	Ε	E	E	E	E
20	7	27	Ε	E	E	E	Ε	D	D	D	D	D	D	D	D	D	F	D	D	D	D	D	D	D	D	D
20	7	28	D	E	E	F	F	F	E	E	D	D	D	D	С	D	С	D	D	D	D	Ε	Ε	F	F	E
20	7	29	F	F	Ε	Ε	Ε	Ε	Ε	D	D	D	D	D	С	С	С	D	D	D	Ε	Ε	Ε	F	Ε	D
20	7		F	F	F	G	F	F	Ε	D	D	D	D	D	D	D	D	D	D	D	Ε	Ε	Ε	Ε	D	D
20 20	7 8	31	D E	D D	D	D E	D	D	D	D	D	D	D	E	E E	E D	D	D	D D	D D	D	E D	E D	E	E	E E
20	8	2	E	D	D D	ъ D	D D	D D	D D	D D	D D	D D	D D	D D	C	D	B C	D D	D	D	D D	D	E	D F	D F	F
20	8	3	F	F	E	E	E	E	E	E	D	D	D	D	D	В	В	D	D	D	D	D	E	E	E	E
20	8	4	E	D	D	D	D	D	D	D	D	D	D	C	A	A	A	A	A	В	D	D	E	E	E	E
20	8	5	E	F	E	F	E	F	F	E	D	D	D	D	D	D	D	E	D	E	E	E	E	F	F	F
20	8	6	F	G	F	G	G	F	E	F	D	Ε	D	E	D	D	D	С	D	D	D	E	E	E	E	E
20	8	7	E	F	G	G	G	G	G	F	Ε	E	E	E	Ε	D	D	D	D	D	D	Ε	E	E	F	G
20	8	8	F	F	G	G	G	G	G	F	D	D	D	D	D	D	D	D	С	D	D	Ε	Ε	Ε	Ε	F
20	8	9	F	G	G	G	F	F	F	Ε	D	D	D	D	D	С	D	D	D	D	D	Ε	E	F	Ε	E
20	8	10	F	Ε	Ε	F	Ε	Ε	Ε	Ε	D	D	D	D	D	D	D	D	D	D	D	Ε	Ε	Ε	Ε	E
20	8	11	Ε	Ε	D	D	Ε	Ε	Ε	D	D	С	В	В	С	C	В	C	В	D	D	D	Ε	Ε	D	D
20	8	12	D	Ε	Ε	Ε	Ε	Ε	F	Ε	Ε	D	D	D	D	D	D	D	D	D	D	Ε	Ε	Ε	Ε	E

3/ 1/2021 PAGE 7 TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

HOURLY STABILITIES

											F	OUF	RS													
YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
20	8	13	E	E	E	E	F	G	Ε	Ε	E	E	Ε	Ε	D	D	С	D	С	D	D	D	E	E	D	D
20	8	14	D	D	D	D	Ε	Ε	E	D	D	D	D	D	D	D	С	D	D	D	D	D	D	Ε	Ε	E
20	8	15	Ε	E	Ε	Ε	Ε	Ε	D	D	D	D	D	E	Ε	Ε	D	D	D	D	D	D	Ε	Ε	Ε	D
20	8	16	D	D	D	D	D	D	D	D	D	D	D	D	D	D	Α	G	D	E	Α	Ε	D	E	D	D
20	8	17	Ε	E	F	G	F	F	F	F	E	D	D	С	D	D	D	E	D	D	D	D	Ε	E	F	G
20	8	18	F	E	D	D	D	D	D	D	D	D	С	С	Α	С	D	D	D	D	В	D	E	E	D	D
20	8	19	Ε	E	D	D	D	D	D	E	E	E	E	E	D	D	D	С	D	D	D	Ε	E	F	F	E
20	8	20	F	F	G	F	F	F	F	Ε	Ε	D	D	D	D	D	D	D	D	D	D	Ε	Ε	Ε	F	F
20	8	21	G	G	G	G	G	G	G	G	E	D	D	D	Ε	E	D	D	D	D	D	F	F	F	G	G
20	8	22	G	G	F	F	G	G	G	G	F	E	Ε	E	Ε	E	D	D	D	D	D	Ε	E	E	F	F
20	8	23	F	F	F	F	F	F	E	E	D	D	D	D	Ε	E	E	D	D	D	D	Ε	F	F	F	F
20	8	24	Ε	E	F	F	F	E	E	E	D	D	С	Α	В	В	В	С	D	D	D	E	E	E	E	F
20	8	25	F	E	Ε	Ε	E	Ε	E	E	D	С	В	D	D	Ε	D	D	D	D	D	Ε	Ε	Ε	E	E
20	8	26	Ε	F	F	F	F	F	E	E	D	D	D	D	Α	Α	E	D	D	Ε	F	Ε	Ε	Ε	E	E
20	8	27	Ε	E	E	E	E	E	D	D	D	D	С	Α	С	В	В	D	С	D	D	Ε	E	E	E	E
20	8	28	Ε	Ε	Ε	Ε	Ε	Ε	Ε	D	D	D	С	В	D	С	С	D	D	С	D	D	D	D	D	E
20	8	29	Ε	D	Ε	D	D	Ε	D	D	В	D	D	Α	Α	Α	Α	Α	В	С	D	Ε	Ε	Ε	Ε	E
20	8	30	Ε	Ε	Ε	Ε	Ε	Ε	Ε	D	D	В	D	D	С	D	D	D	Ε	D	D	Ε	Ε	Ε	Ε	F
20	8		Ε	F	F	F	E	Ε	F	Ε	D	D	D	D	D	D	D	D	D	D	D	Ε	Ε	Ε	Ε	E
20	9		F	E	Ε	Ε	Ε	Ε	Ε	Ε	D	D	D	D	D	D	С	D	D	D	D	Ε	Ε	Ε	Ε	Ε
20	9		Ε	E	Ε	Ε	Ε	D	D	D	D	D	Α	Α	D	D	D	С	D	D	Ε	F	F	F	F	G
20	9		G	G	G	G	G	G	F	Ε	Ε	D	С	С	С	С	В	D	D	D	Ε	Ε	Ε	Ε	Ε	Ε
20	9		Ε	Ε	Е	Е	F	F	F	F	D	В	Α	A	Α	A	A	A	A	С	D	Ε	F	F	F	F
20			G	F	F	F	F	F	Ε	Ε	D	D	D	D	С	С	С	D	D	Е	Ε	Ε	D	D	D	D
20	9		D	Ε	F	G	F	G	G	G	F	E	Ε	D	D	D	E	E	Ε	Ε	Ε	Ε	Ε	E	E	E
20	9		Ε	Ε	Ε	Ε	Ε	Ε	Ε	Ε	Ε	Ε	Ε	D	D	С	D	D	D	D	D	D	Ε	Ε	Ε	D
20	9		D	D	D	D	Ε	D	D	Ε	D	A	A	A	A	D	D	D	D	D	D	D	D	D	D	D
20	9	-	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
20		10 11	D	D	D	D	Ε	Ε	Ε	D	D	С	D	D	D	С	D	D	D	D	D	D	D	D	D	D
20 20		12	D E	D	D	D F	D	D	D E	D	D	D	D	D	D	D D	D	D C	D	D D	D	D	D E	E	D	E F
20		13	E	D E	E E	E	E E	E E	D.	E E	D D	D B	D A	D D	D C	C	D B	C	D B	D	D D	E E	E	E E	F E	r D
20		14	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E
20		15	F	E	F	F	F	F	F	F	F	E	D	D	D	D	D	D	D	D	D	E	F	F	F	F
20		16	F	E	E	E	E	E	F	F	Ē	D	C	D	C	C	D	D	D	D	E	E	F	F	F	G
20			F	F	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
20		18	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
20		19	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	E	E
20		20	F	F	F	F	F	F	F	F	E	D	D	C	В	A	В	В	C	D	D	E	E	E	E	E
20		21	Ē	E	F	E	F	Ē	F	F	Ē	D	D	D	D	С	В	В	C	D	E	E	E	E	E	F
20		22	G	G	G	F	G	G	G	G	G	D	D	D	C	D	D	D	D	E	F	F	G	G	G	G
20		23	G	G	G	G	G	G	G	G	F	D	D	D	E	E	E	E	E	E	E	F	E	F	F	F
20			E	E	G	F	E	E	E	E	Ε	D	D	D	Ε	С	D	В	Ε	E	F	G	F	G	G	G
20	9	25	F	F	G	G	G	G	F	G	G	F	Ε	E	D	D	D	D	D	D	E	E	Ε	E	F	G
								F	F	F																

3/ 1/2021 PAGE 8 TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

HOURLY STABILITIES

HOIIRS

										Н	OUF	RS													
YR MN	1 DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
20 9	27	E	E	E	E	E	E	E	E	D	D	D	В	В	В	D	D	D	D	E	E	E	E	E	Ε
	28	E	E	Ε	E	E	E	Ε	Ε	D	D	D	D	D	Α	Α	А	Α	Α	Α	Α	D	D	D	D
20 9	29	D	D	D	D	D	D	D	E	D	В	В	В	Α	D	D	D	D	D	E	Ε	F	F	F	F
20 9	30	E	E	E	E	E	D	E	E	D	D	D	D	D	D	D	D	D	E	D	D	D	E	E	E
20 10) 1	E	E	Ε	E	Ε	Ε	E	E	D	D	С	В	D	В	С	D	D	D	D	Ε	E	Ε	D	D
20 10) 2	D	D	D	D	D	E	E	E	D	В	Α	Α	Α	Α	С	D	D	D	D	E	E	E	E	F
20 10) 3	E	E	E	E	E	F	E	F	E	D	D	D	E	E	D	D	D	D	E	E	E	E	E	E
20 10) 4	E	E	Ε	E	Ε	Ε	Ε	E	E	D	D	D	D	D	D	D	D	D	E	Ε	Ε	E	E	D
20 10) 5	D	E	D	D	D	E	F	F	E	С	D	С	E	E	D	С	D	D	E	E	E	E	E	E
20 10) 6	E	E	E	E	E	E	E	E	D	D	D	С	В	С	D	D	D	E	E	F	F	F	F	E
20 10) 7	E	E	E	E	E	E	E	E	D	D	D	С	Α	Α	В	С	С	D	E	E	E	E	E	E
20 10	8 (E	E	F	G	G	G	G	G	G	F	D	С	Α	В	В	В	D	D	E	F	F	G	F	E
20 10) 9	F	F	G	G	G	G	G	G	G	E	E	D	D	D	D	D	D	E	E	E	E	E	E	E
20 10	10	E	E	Ε	E	Ε	Ε	Ε	E	E	D	D	D	С	В	D	D	D	Ε	E	Ε	Ε	D	D	D
20 10	11	D	D	D	D	D	D	D	D	D	D	D	В	Α	В	С	Α	D	D	D	D	D	D	D	D
20 10	12	D	D	D	E	E	D	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	D	Α	D
20 10	13	D	D	D	D	Ε	Ε	Ε	Ε	D	D	D	D	D	С	В	В	D	D	Ε	F	Ε	Ε	F	Ε
20 10	14	E	E	F	G	G	F	F	G	G	F	E	D	D	D	D	D	D	E	E	E	E	E	E	E
20 10	15	E	Ε	Ε	Ε	Ε	Ε	F	Ε	E	Ε	Ε	Ε	Ε	Ε	D	В	С	D	D	D	D	D	E	Ε
20 10		E	Е	Ε	Ε	Ε	F	F	F	F	Е	D	С	В	В	Α	В	D	D	Ε	Ε	F	F	F	F
20 10		F	E	Ε	E	Ε	Ε	E	E	E	D	D	D	В	С	С	D	D	Ε	E	Ε	E	Ε	Ε	Ε
20 10		Ε	D	Е	Ε	Ε	Е	Ε	Е	D	D	D	D	D	D	D	D	D	D	D	D	D	Ε	Ε	Ε
20 10		Ε	D	D	D	D	D	С	D	D	Е	Ε	Е	E	Ε	Е	Е	Ε	D	D	D	Ε	D	D	D
20 10		D	D	D	Ε	Ε	Е	Ε	Е	D	D	D	D	С	Α	D	D	D	D	D	D	D	D	D	D
20 10		D	D	A	A	A	A	A	А	A	А	A	A	A	A	A	А	D	D	E	E	F	F	Ε	D
20 10		D	D	D	D	D	D	D	D	D	D	D	С	D	Ε	Ε	Ε	Ε	F	F	G	G	G	F	F
20 10		Ε	Ε	Ε	E	Ε	Ε	Ε	Ε	Ε	D	D	D	D	D	Ε	D	D	D	Ε	Ε	D	Ε	D	D
20 10		D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	D
20 10		D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
20 10		E D	D D	C D	A D	B D	D D	B D	D D	D D	D D	D D	D D	D D											
20 10		D	D	D	D	D	D	D	D	D	D	С	D	D	A	В	D	D	D	E	E	E	E	E	E
20 10		E	E	E	E	E	E	E	E	E	F	E	E	D	E	D	D	D	D	D	D	D	D	D	D
20 10		D	D	D	D	D	D	D	D	D	D	D	D	C	C	C	D	D	D	D	D	E	D	D	D
20 10		D	D	E	F	F	G	F	F	F	D	D	D	D	C	C	D	D	D	E	E	E	E	E	E
20 11		E	E	E	Ē	Ē	E	E	E	Ē	D	D	D	D	D	D	D	D	D	D	E	E	D	D	D
20 11		D	D	D	D	E	E	E	E	D	D	В	В	В	В	C	D	D	E	E	E	E	D	E	E
20 11		E	E	E	E	E	E	E	E	D	C	C	В	A	В	D	E	E	F	F	F	F	F	F	F
20 11		E	F	E	E	E	E	E	E	D	D	C	C	D	D	D	D	E	Ē	E	Ē	E	Ē	E	E
20 11		E	E	E	E	F	E	E	F	E	D	D	D	D	D	D	D	E	E	F	E	E	E	E	E
20 11		E	F	F	F	F	F	F	F	E	D	С	С	В	D	D	D	E	F	F	F	F	F	F	F
20 11		F	F	F	F	F	F	F	G	Ε	D	С	С	В	В	D	D	Ε	F	F	G	G	G	F	F
20 11	. 8	G	G	G	G	G	G	G	G	G	Ε	E	E	E	F	F	F	G	G	G	G	G	G	G	G
20 11	. 9	G	G	G	G	G	G	G	G	Ε	Ε	D	С	D	D	D	E	Ε	F	F	F	F	F	F	Ε
20 11	. 10	Ε	E	E	E	E	E	E	E	Ε	D	D	D	D	D	D	D	Ε	E	E	E	E	E	E	E

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 9
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

HOURLY STABILITIES

HOURS

YR	MN	DY	1	2	3	4	5	6	7	8		OUR 10		12	13	1 4	15	16	17	1.8	1 9	20	21	22	23	24
110	LILI	DI	_	_	9	-	9	O	,	Ü	,	10		12	10	11	10	10	Ι,	10	10	20	21	22	23	27
20			E	Ε	E	E	D	D	D	D	D	D	Α	Α	Α	В	В	С	D	Ε	Ε	Ε	Ε	Ε	Ε	E
20			E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	Ε	Ε	Ε	E	E
20 20			E F	E	F F	F E	F G	E F	E F	E G	D F	D E	C D	C D	D D	B D	C D	D D	D D	E D	E D	E D	E D	E D	E D	F E
20			E	D	D	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
20			D	D	D	D	D	D	D	D	D	D	D	В	В	В	D	D	D	E	E	E	E	E	D	E
20	11	17	D	D	D	D	E	E	E	E	Ε	D	D	D	Α	Α	С	D	D	D	D	D	D	D	D	D
20	11	18	D	D	D	E	Ε	Ε	Ε	F	Ε	D	D	D	Α	В	D	D	D	Ε	E	E	E	E	E	E
20			E	E	Ε	Ε	E	Ε	Ε	E	D	Ε	D	D	D	D	D	E	Ε	Ε	Е	Ε	E	E	Ε	E
20			E	Ε	Ε	E	Ε	Ε	E	Ε	D	D	D	D	D	D	D	E	Ε	F	F	F	E	F	E	E
20			E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
20 20			D D	D D	D D	E D	D D	D D	D D	D D	D D	D D	D C	D A	D A	D A	D D	D D	D E	D E	D E	D E	C E	C E	D D	D D
20			D	D	D	D	E	E	E	E	E	D	D	D	D	D	D	E	E	E	E	E	E	E	E	E
20			E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
20	11	26	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E
20			Ε	Ε	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	Ε	D	Ε	Ε	E	D
20			E	Ε	Ε	Ε	Ε	Ε	F	F	Ε	D	В	Α	В	В	С	D	Ε	Ε	Ε	Ε	F	F	Ε	Ε
20			E	E	Ε	Ε	Ε	Ε	Ε	Ε	D	D	С	В	D	D	D	D	Ε	E	F	E	F	F	F	F
20 20		30 1	F E	E D	D D	D D	D D	E D	E D	D D	D D	D D	D D	D B	D D	D D	D D	D E								
20		2	E	E	E	E	E	E	E	E	E	D	D	C	D	D	D	D	E	E	E	E	E	E	E	E
20		3	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
20	12	4	E	E	E	E	E	Ε	E	E	D	D	D	D	D	D	D	E	Ε	Ε	E	E	E	Ε	E	E
20		5	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
20		6	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
20 20		7 8	D E	D E	D F	D E	D	D	D F	D E	D	D	D	D	D D	D	D	D	D	D	D D	D D	D	D	E D	E
20		9	E D	D.	r D	ъ D	E D	E D	r D	D.	E D	D D	D D	D D	С	D B	D B	D D	D E	D E	F	F	D F	D G	G	D G
20			F	G	F	G	G	G	G	G	G	G	E	D	D	E	F	F	G	G	G	F	F	F	F	F
20			F	F	E	F	F	F	F	E	E	D	D	С	С	F	F	E	F	F	E	E	E	E	E	E
20	12	12	E	Ε	F	G	G	F	F	Ε	Ε	Ε	D	D	С	E	С	D	D	D	D	D	D	D	D	D
20			D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	Ε	Ε	Ε	D	D	D
20			E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	Ε	Ε	Ε	Ε	Ε	Ε
20 20			E D	E D	E D	E D	E D	E D	D D	D D	D D	D D	D D	D D	C D	C D	D D									
20			D	D	D	D D	D	D	D	D	D	D	D	D	D	D	D D	D	D	D	D	D	D	D	D	D
20			D	D	D	D	E	D	D	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
20			E	E	E	D	D	D	D	E	D	D	D	D	D	E	E	E	E	E	E	E	E	E	E	E
20	12	20	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	Ε	Ε	Ε	E	E	E	E
20			E	Ε	Ε	Ε	Ε	Ε	Ε	Ε	Ε	D	D	D	D	D	D	Ε	D	Ε	D	Ε	Ε	Ε	Ε	D
	12		D	D	D	D	D	D	D	D	D	В	В	В	В	В	D	D	D	D	Ε	Ε	Ε	Ε	Ε	Ε
20			E	D	E	Ε	D	D	E	E	Ε	D	D	D	D	D	D	E	E	E	E	E	E	E	E	E
20 20		24	E D	E D	D D	D D	D D	D D	D D	D D	D D	D D	D D	D D	D D	D D	D D	D D	D D							
20	12	20	ט	ע	ט	ע	ע	ע	ע	ע	ע	ע	ע	ע	ע	ע	ט	ע	ע	ע	ט	ע	ע	ע	ע	ע

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 10
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

HOURLY STABILITIES

HOURS

YR	MN	DY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
20	12	26	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	Ε	Ε	Ε	Ε	E
20	12	27	F	F	G	G	F	F	Ε	Ε	Ε	D	D	D	D	D	D	Ε	Ε	Ε	Ε	Ε	Ε	Ε	Ε	E
20	12	28	Ε	E	Ε	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	Ε	E	Ε	Ε	-
20	12	29	Ε	D	D	E	Ε	Ε	E	Ε	Ε	D	В	D	D	D	D	D	D	D	D	D	D	D	D	D
20	12	30	D	D	E	E	E	E	E	E	Ε	E	D	D	D	E	Α	D	В	D	D	D	D	D	E	D
2.0	12	31	D	D	D	D	D	D	D	D	D	D	D	D	С	D	D	D	D	D	D	D	D	E	D	_

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 11
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** JANUARY ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	2	5
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0		0			0	0			0	0			2	5

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01220																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
7.51-12.50	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	3
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL			0		1		0									0	6

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 12
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** JANUARY ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	1	0	0	0	0	3	0	0	0	0	0	4
7.51-12.50	0	0	0	0	0	0	0	0	0	0	2	0	0	1	1	0	4
12.51-18.50	0	0	0	0	0	0	0	0	0	1	4	2	1	2	0	0	10
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0		1	0	0 -			9			3		0	18

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01 1110																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	1	0	3	4	2	7	5	5	3	0	6	3	0	0	0	39
3.51- 7.50	2	2	5	13	12	5	5	1	5	5	5	8	15	8	10	6	107
7.51-12.50	4	4	2	6	8	11	5	8	4	13	10	30	12	8	13	10	148
12.51-18.50	1	3	3	0	0	0	2	1	2	2	7	49	7	12	12	3	104
18.51-24.00	1	0	0	0	0	0	0	0	0	0	2	12	4	0	3	0	22
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8	10	10	22	24	18	19	15	16	23	24	105	41	28	38	19	420

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 13
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** JANUARY ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	0	0	1	1	1	1	2	6	1	2	12	1	1	0	9	39
3.51- 7.50	2	0	3	0	1	3	2	5	14	32	20	10	4	4	1	0	101
7.51-12.50	0	2	1	0	2	0	0	1	11	31	10	8	9	2	5	0	82
12.51-18.50	0	0	0	0	0	0	0	1	2	9	7	3	2	2	2	0	28
18.51-24.00	0	0	0	0	0	0	0	0	1	3	0	2	0	0	0	0	6
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
TOTAL	=		4	1	4	4	3	9	34	76	40	35	16	9	8	9	257

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

21 550																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
3.51- 7.50	0	0	0	0	4	7	1	1	2	0	0	0	1	0	0	0	16
7.51-12.50	0	0	0	0	7	0	0	0	0	0	0	0	0	0	1	0	8
12.51-18.50	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	12	9				0	0	0	1	0		0	27

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 14
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** JANUARY ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
7.51-12.50	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0								0	0	0	0	0	0	4

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01220																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	1	1	0	4	5	5	9	7	11	4	2	18	4	1	0	9	81
3.51- 7.50	4	2	8	13	17	18	8	7	21	37	28	19	21	14	12	8	237
7.51-12.50	4	6	3	6	19	11	5	9	15	44	23	38	21	11	21	10	246
12.51-18.50	1	3	3	0	1	0	2	2	4	12	18	54	10	17	14	3	144
18.51-24.00	1	0	0	0	0	0	0	0	1	3	2	14	4	0	3	0	28
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
TOTAL	11	12	14	23	42	34	24	25	52	100	74	143	60	43	50	30	737

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 15
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** JANUARY ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 744

TOTAL NUMBER OF VALID OBSERVATIONS: 737

TOTAL NUMBER OF MISSING OBSERVATIONS: 7

PERCENT DATA RECOVERY FOR THIS PERIOD: 99.1 %

MEAN WIND SPEED FOR THIS PERIOD: 9.1 MPH TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G .68 .81 2.44 56.99 34.87 3.66 .54 A

					DISTR	IBUTION	OF WINI	DIREC'	TION VS		T'T'Y						
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	2	0
В	0	0	0	0	1	0	0	0	0	0	1	1	1	1	1	0	0
С	0	0	0	0	0	1	0	0	0	1	9	2	1	3	1	0	0
D	8	10	10	22	24	18	19	15	16	23	24	105	41	28	38	19	0
E	3	2	4	1	4	4	3	9	34	76	40	35	16	9	8	9	0
F	0	0	0	0	12	9	1	1	2	0	0	0	1	0	1	0	0
G	0	0	0	0	1	2	1	0	0	0	0	0	0	0	0	0	0
TOTAL	11	12	14	23	42	34	24	25	52	100	74	143	60	43	50	30	0

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 16
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** FEBRUARY ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	1	0	2	0	0	1	2	2	8
7.51-12.50	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	2	4
12.51-18.50	0	0	0	0	0	0	0	0	0	0	1	2	0	1	1	1	6
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0 -	0	0 -		0	0	0		0	3		0	2	4	5	18

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	3
7.51-12.50	0	0	0	0	2	0	0	0	0	1	0	2	1	0	3	1	10
12.51-18.50	0	0	0	0	0	0	0	0	0	0	2	2	1	0	1	0	6
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	3	0	0	0	0	2	3	4		0	4	1	19

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 17
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** FEBRUARY ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	1	4
7.51-12.50	1	0	0	0	1	0	0	0	0	0	0	5	1	0	0	1	9
12.51-18.50	0	0	0	0	1	0	0	0	0	0	3	4	2	2	0	0	12
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		0	0	0		0 -	0			0 -	4	10	4	3	0	2	27

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

01 1110																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	1	2	0	2	1	2	0	1	1	2	1	0	2	0	0	0	15
3.51- 7.50	0	3	0	3	6	0	1	1	2	15	8	6	2	1	5	1	54
7.51-12.50	10	13	23	2	4	2	0	0	5	13	7	15	18	2	9	9	132
12.51-18.50	6	12	38	12	0	0	0	0	2	8	5	8	24	1	15	10	141
18.51-24.00	1	0	1	1	0	0	0	0	0	0	2	5	3	0	1	1	15
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
TOTAL	18	30	62	20	11	4		2	10	38	24	34	49	4	30	21	358

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 18
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** FEBRUARY ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	1	1	1	0	3	5	6	0	1	0	1	0	19
3.51- 7.50	0	2	0	2	5	4	0	0	6	21	19	16	12	2	4	1	94
7.51-12.50	0	1	4	3	5	1	0	2	1	9	17	18	21	1	1	0	84
12.51-18.50	0	0	4	0	0	0	0	0	0	1	10	7	3	1	1	0	27
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	3	8	5	11	6			10	36	52	41	37	4	7		224

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2
3.51- 7.50	1	1	1	0	0	0	0	0	1	12	10	0	0	0	0	0	26
7.51-12.50	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	4
12.51-18.50	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL										14	11					0	33

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 19
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** FEBRUARY ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	2
3.51- 7.50	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0				0			0	0			0	0			0	3

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	1	2	0	2	2	3	2	2	5	9	7	0	3	0	1	0	39
3.51- 7.50	1	6	1	5	12	5	1	1	10	49	41	22	15	5	11	5	190
7.51-12.50	11	14	27	5	13	3	0	2	6	24	25	41	42	3	14	13	243
12.51-18.50	6	12	42	12	2	0	0	0	2	9	21	23	30	5	18	11	193
18.51-24.00	1	0	1	1	0	0	0	0	0	0	2	6	3	0	1	1	16
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
TOTAL	20	34	71	25	29	11	3	5	23	91	97	92	93	13	45	30	682

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 TIME OF DAY: 17:37:43

PAGE

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PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** FEBRUARY ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 696

TOTAL NUMBER OF VALID OBSERVATIONS: 682

TOTAL NUMBER OF MISSING OBSERVATIONS: 14

PERCENT DATA RECOVERY FOR THIS PERIOD: 98.0 % MEAN WIND SPEED FOR THIS PERIOD: 10.1 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F 2.64 2.79 3.96 52.49 32.84 4.84 .44

DISTRIBUTION OF WIND DIRECTION VS STABILITY N NNE E ESE SE SSE S SSW SW WSW W WNW NW NNW CALM NE ENE Α 1 1 2 В 0 0 0 0 3 0 0 0 0 2 3 2 0 1 0 1 0 0 2 0 0 1 2 0 0 0 4 10 4 3 0 0 4 21 D 18 30 20 11 1 2 24 34 49 62 10 38 4 30 0 Ε 0 3 8 5 11 6 1 2 10 36 52 41 37 1 0 F 1 1 1 0 1 0 0 0 2 14 11 1 0 0 1 0 0 1 1 0 0 0 G 0 0 0 0 1 0 0 0 0 0 0 20 71 25 29 11 3 5 23 91 97 92 93 30 TOTAL 34 13 45

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

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TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** MARCH ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
7.51-12.50	0	0	0	0	1	2	0	0	0	0	0	1	1	0	1	2	8
12.51-18.50	0	0	0	0	1	0	0	0	0	0	2	0	1	0	0	1	5
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0			0	0	0	0 -	2	<u>_</u>				3	17

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	1	0	0	0	1	1	2	1	0	0	2	8
7.51-12.50	0	0	0	1	2	1	0	0	0	0	0	1	1	0	0	0	6
12.51-18.50	0	0	0	0	1	0	0	0	0	1	2	0	3	0	1	0	8
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	1	5	0	1	0	7
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0 -	0		3		0	0			3	4	10	0		2	29

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

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TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** MARCH ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
3.51- 7.50	0	0	0	0	2	2	1	0	0	0	0	1	0	0	0	0	6
7.51-12.50	1	0	0	1	4	0	0	0	0	2	1	2	0	0	1	0	12
12.51-18.50	0	0	0	1	2	0	0	0	0	0	0	4	2	0	2	0	11
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		0	0		8			0	0		1	7	4	0 -	3		32

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	1	2	3	1	2	0	0	0	0	1	0	0	0	10
3.51- 7.50	3	8	5	24	21	15	10	5	6	1	2	1	2	0	1	5	109
7.51-12.50	8	16	22	33	41	5	0	1	5	7	3	11	5	11	7	3	178
12.51-18.50	8	11	8	3	0	0	0	0	0	0	3	5	10	1	4	3	56
18.51-24.00	3	1	0	0	0	0	0	0	0	0	2	4	1	1	0	2	14
>24.00	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	7
TOTAL	22	36	35	61	64	23	11	8	11	8	10	28	19	13	12	13	374

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 23
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** MARCH ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	3	3	4	2	4	0	0	1	1	1	0	19
3.51- 7.50	2	2	4	3	6	6	0	1	4	12	10	3	6	3	0	2	64
7.51-12.50	1	0	2	2	3	4	0	2	1	36	11	11	9	4	2	0	88
12.51-18.50	0	0	2	0	1	0	0	0	2	9	10	6	5	1	1	2	39
18.51-24.00	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	4
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		2	8	5	10	13		7	9	61	32	21	21	11	4	4	214

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

SEEED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	1	0	1	1	0	2	1	1	9	1	1	1	0	1	0	0	20
3.51- 7.50	1	0	2	1	3	4	0	1	5	7	3	0	1	1	0	0	29
7.51-12.50	0	0	0	1	1	1	1	0	0	3	0	1	0	0	0	0	8
12.51-18.50	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		0	3		4	7	2		14	14	4				0	0	60

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

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TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** MARCH ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	0	0	0	0	1	2	1	1	1	0	0	0	0	0	0	0	6
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	1	0	1				1	0	0	0	0	0	0	0	7

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01550																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	1	0	2	2	2	8	5	7	11	5	1	1	2	2	1	1	51
3.51- 7.50	6	10	11	28	33	30	12	8	16	21	16	7	11	4	1	9	223
7.51-12.50	10	16	24	38	52	13	1	3	6	48	15	27	16	15	11	5	300
12.51-18.50	8	11	10	4	5	0	0	0	2	13	17	15	21	2	8	6	122
18.51-24.00	3	1	0	0	0	0	0	0	0	0	3	6	10	4	1	2	30
>24.00	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	7
TOTAL	28	38	47	72	92	51	18	18	35	87	52	63	60	27	22	23	733

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 TIME OF DAY: 17:37:43

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PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** MARCH ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 744

TOTAL NUMBER OF VALID OBSERVATIONS: 733

TOTAL NUMBER OF MISSING OBSERVATIONS: 11

PERCENT DATA RECOVERY FOR THIS PERIOD: 98.5 % MEAN WIND SPEED FOR THIS PERIOD: 9.4 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G 2.32 3.96 4.37 51.02 29.20 8.19 .95

DISTRIBUTION OF WIND DIRECTION VS STABILITY N NNE E ESE SE SSE S SSW SW WSW NW NNW CALM NE ENE W WNW Α В D 23 11 8 61 64 3 2 5 10 13 3 7 9 61 32 21 21 11 4 0 F 7 2 2 14 14 4 2 0 0 G 2 1 0 0 52 63 51 18 TOTAL

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

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TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** APRIL ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	2	0	0	0	0	0	3	0	1	0	0	6
7.51-12.50	0	0	0	1	0	0	2	0	0	1	9	6	1	0	8	0	28
12.51-18.50	0	0	0	1	0	0	0	0	0	0	1	3	3	0	5	0	13
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4	0	6
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0		0				0		10	12	4		17	0	53

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

21 1110																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	2	0	0	1	0	0	0	0	0	0	1	1	0	0	0	1	6
7.51-12.50	1	0	0	0	1	0	0	0	0	0	4	1	0	1	0	2	10
12.51-18.50	0	0	0	2	0	0	0	0	0	0	0	3	3	0	0	0	8
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	0	0	3	1	0	0	0	0	0	5	5	3	2	1	3	26

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

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TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** APRIL ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
3.51- 7.50	0	0	0	0	0	1	1	0	0	1	2	0	0	0	1	0	6
7.51-12.50	0	1	1	1	2	1	0	0	0	0	1	2	0	2	1	0	12
12.51-18.50	0	0	0	2	0	0	0	0	1	0	0	3	2	0	0	0	8
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	1	2	0	1	0	4
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		1					0			3	6	4		3		31

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

011111																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	2	2	0	1	1	1	3	2	1	0	1	0	0	14
3.51- 7.50	1	3	6	8	9	19	7	6	5	3	5	8	4	0	3	0	87
7.51-12.50	9	6	12	23	19	8	1	2	9	7	7	3	4	1	5	4	120
12.51-18.50	1	0	2	13	3	0	0	0	4	2	3	11	9	5	3	0	56
18.51-24.00	0	1	3	0	0	0	0	0	0	1	0	2	5	4	6	0	22
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	2	4	0	0	6
TOTAL	11	10	23	46	33	27	9	9	19	16	17	25	24	15	17	4	305

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

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TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** APRIL ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	4
1.01- 3.50	0	0	1	2	3	2	2	4	5	4	2	1	0	2	1	1	30
3.51- 7.50	1	3	2	3	4	9	6	8	11	7	12	13	10	5	3	1	98
7.51-12.50	1	0	4	2	0	14	0	4	8	6	12	4	15	6	2	5	83
12.51-18.50	1	1	3	1	1	0	0	0	0	0	3	2	5	11	3	2	33
18.51-24.00	0	3	1	0	0	0	0	0	0	0	0	1	1	1	0	0	7
>24.00	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
TOTAL	3	8	12	8	8	25	8	16	24	17	29	21	31	25	9	9	257

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

21 550																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	1	1	0	3	1	0	2	1	0	0	0	9
3.51- 7.50	0	0	0	2	4	2	2	0	1	1	3	0	2	3	0	1	21
7.51-12.50	0	0	0	0	1	2	1	0	2	0	0	0	0	0	0	0	6
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0			5	4	0 -	6		3		3	3	0	1	36

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 29
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** APRIL ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	2
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	2	0	1	1	0	0	4
7.51-12.50	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0		0		0				3						7

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

SIEED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	MNM	NW	NNW	TOTAL
CALM																	4
1.01- 3.50	0	0	1	4	5	3	4	5	9	9	5	4	1	3	1	2	56
3.51- 7.50	4	6	8	14	17	33	16	14	17	12	25	25	17	10	7	3	228
7.51-12.50	11	7	17	27	23	25	4	7	19	14	33	16	20	10	16	11	260
12.51-18.50	2	1	5	19	4	0	0	0	5	2	7	22	22	16	11	2	118
18.51-24.00	0	4	4	0	0	0	0	0	0	1	0	4	8	8	12	0	41
>24.00	0	1	1	0	0	0	0	0	0	0	0	0	2	4	0	0	8
TOTAL	17	19	36	64	49	61	24	26	50	38	70	71	70	51	47	18	715

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 TIME OF DAY: 17:37:43 PAGE

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** APRIL ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 720

TOTAL NUMBER OF VALID OBSERVATIONS: 715

TOTAL NUMBER OF MISSING OBSERVATIONS: 5

PERCENT DATA RECOVERY FOR THIS PERIOD: 99.3 %

MEAN WIND SPEED FOR THIS PERIOD: 9.5 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F 7.41 3.64 4.34 42.66 35.94 5.03 .98

DISTRIBUTION OF WIND DIRECTION VS STABILITY N NNE E ESE SE SSE S SSW SW WSW W WNW NW NNW CALM NE ENE Α В D 1.0 8 8 25 8 16 24 17 29 21 31 F 2 5 5 4 0 3 2 G 0 0 3 0 61 24 TOTAL 17 19 64 49

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 31
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** MAY ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	2	3	0	0	0	0	0	0	0	3	2	0	10
7.51-12.50	0	0	0	0	8	0	0	0	0	0	1	0	0	3	11	0	23
12.51-18.50	0	0	0	0	5	0	0	0	0	0	0	0	1	5	1	0	12
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
TOTAL	0	0	0	0	15	3	0	0	0	0		0	4	11	14	0	48

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	3
7.51-12.50	0	0	0	2	2	1	0	0	1	2	0	0	1	1	2	0	12
12.51-18.50	0	0	1	1	3	0	0	0	0	0	2	0	1	2	0	0	10
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
TOTAL	0				5			0					4			1	29

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 32
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** MAY ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	1	0	1	0	2	4	2	0	0	0	1	0	0	1	0	1	13
7.51-12.50	1	0	0	2	4	1	0	0	1	1	0	0	0	2	0	0	12
12.51-18.50	0	0	0	1	4	0	0	0	0	2	1	2	4	1	0	0	15
18.51-24.00	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	2
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2		2	3	10	5		0		3	2		5	4	0		42

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	1	1	1	3	0	0	0	0	0	0	0	6
3.51- 7.50	2	2	1	11	19	6	8	3	10	12	4	0	0	1	0	3	82
7.51-12.50	14	7	6	14	40	12	0	0	7	14	6	5	7	3	5	3	143
12.51-18.50	17	3	11	9	22	4	0	0	0	4	7	4	4	2	4	4	95
18.51-24.00	4	0	2	0	0	0	0	0	0	0	0	0	0	1	0	1	8
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	37	12	20	34	81	23	9	4	20	30	17	9	11	7	9	11	334

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 33
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** MAY ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	1	2	1	7	5	4	0	0	1	3	0	0	24
3.51- 7.50	1	0	0	3	17	22	4	10	13	23	11	7	6	3	1	0	121
7.51-12.50	1	0	0	2	8	3	0	0	1	2	6	5	7	7	5	3	50
12.51-18.50	2	0	0	0	4	0	0	0	0	0	1	3	0	2	1	2	15
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	0	0	5	30	27		17	19	29	18	15	14	15	7	5	211

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01550																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
1.01- 3.50	0	0	0	0	0	3	2	9	9	7	0	1	0	0	0	0	31
3.51- 7.50	0	0	1	0	4	3	2	1	8	6	4	1	2	0	0	0	32
7.51-12.50	0	0	0	0	1	1	0	0	0	0	0	1	2	0	0	0	5
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0		0	= 5	7	4	10	17	13	4	3	4	0	0	0	70

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 34
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** MAY ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	3	1	2	1	0	0	0	0	0	0	0	7
3.51- 7.50	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	2
7.51-12.50	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0		4				0	0	0	0	0		0	10

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

011111																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	3
1.01- 3.50	0	0	0	0	1	9	6	19	18	11	0	1	1	3	0	0	69
3.51- 7.50	4	2	3	14	44	41	17	14	31	41	20	8	8	8	3	5	263
7.51-12.50	16	7	6	20	64	18	0	0	10	19	13	11	17	16	23	6	246
12.51-18.50	19	3	12	11	38	4	0	0	0	6	11	9	10	12	6	6	147
18.51-24.00	4	0	3	0	0	0	0	0	0	0	0	1	3	1	0	1	13
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3
TOTAL	43	12	24	45	147	72	23	33	59	77	44	30	42	40	32	18	744

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

PAGE

3/ 1/2021 TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** MAY ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 744

TOTAL NUMBER OF VALID OBSERVATIONS: 744

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 8.8 MPH TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA:

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

B C D E F A G 6.45 3.90 5.65 44.89 28.36 9.41 1.34

DISTRIBUTION OF WIND DIRECTION VS STABILITY NNE E ESE SE SSE S SSW SW WSW NW NNW CALM N NEENE W WNW Α В D 20 30 5 30 27 5 17 19 29 18 15 14 5 1 F 4 10 17 13 4 3 0 2 G 23 33 44 30 TOTAL 45 147 *******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 36
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** JUNE ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
3.51- 7.50	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	3
7.51-12.50	0	0	0	0	3	0	0	0	0	0	2	4	1	0	2	0	12
12.51-18.50	0	0	0	5	1	0	0	0	0	0	0	2	3	1	0	0	12
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	1	5	6	0 -		0	0	0 -	2	6	4		3		29

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
(111 11)		11111	112	2112	_	поп	01	OOL	Ü	0011	511	WOW.	**	******	1111	141444	1011111
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	2	0	0	0	0	1	1	0	0	1	1	0	6
7.51-12.50	0	0	0	1	5	0	0	0	0	0	2	4	1	2	0	1	16
12.51-18.50	0	0	0	8	1	0	0	0	0	0	0	1	3	0	0	0	13
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	9	8	0	0	0	0		3	5	5	3	1	1	36

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 37
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** JUNE ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	1	3	0	0	0	0	0	2	2	0	0	0	0	8
7.51-12.50	0	0	3	2	8	0	0	0	0	0	2	5	3	0	0	1	24
12.51-18.50	0	0	1	1	1	0	0	0	0	0	1	3	3	0	0	0	10
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	4	4	12	0	0	0	0	0		10	7	0	0	1	43

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

01 1110																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	3	1	0	1	0	1	1	1	1	1	0	1	11
3.51- 7.50	1	7	11	22	32	15	2	7	2	10	10	6	2	0	1	0	128
7.51-12.50	6	1	12	30	20	1	0	0	0	7	5	18	6	5	1	0	112
12.51-18.50	0	0	5	9	4	0	0	0	3	5	3	13	4	2	0	0	48
18.51-24.00	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	3
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	7	8	28	61	59	17		8	5	23	20	39	14	8		1	302

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 38
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** JUNE ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	1	2	2	1	5	4	3	3	2	6	4	2	3	1	1	1	41
3.51- 7.50	0	7	2	6	21	25	8	4	6	20	16	11	8	1	0	0	135
7.51-12.50	2	2	1	2	3	2	0	0	2	9	7	8	5	1	0	0	44
12.51-18.50	0	0	0	1	0	0	0	0	0	0	1	5	1	0	1	1	10
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	11	5	10	29	31	11	7	10	35	28	26	17	3	2	2	230

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SEEED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	 1
1.01- 3.50	0	1	1	0	0	0	2	3	4	9	1	1	1	2	0	1	26
3.51- 7.50	0	0	0	0	0	0	1	1	1	18	3	5	2	0	2	0	33
7.51-12.50	0	0	0	0	3	0	0	0	0	1	0	0	0	0	0	0	4
12.51-18.50	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	3
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0			2	3	0	3	4	 5	28	4	7	3			1	67

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 39
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** JUNE ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	1	0	2	1	1	0	0	0	0	0	5
3.51- 7.50	0	0	0	0	0	1	0	0	0	5	0	2	0	0	0	0	8
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0		0			0		6			0	0		0	13

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01550																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	 1
1.01- 3.50	1	3	3	1	8	5	6	7	8	17	7	4	5	4	2	4	85
3.51- 7.50	1	14	14	29	60	41	11	12	9	54	32	26	12	2	4	0	321
7.51-12.50	8	3	16	35	42	3	0	0	2	17	18	39	16	8	3	2	212
12.51-18.50	0	0	6	26	7	0	0	0	3	5	5	25	14	3	1	1	96
18.51-24.00	0	0	0	0	0	0	0	0	0	0	1	1	3	0	0	0	5
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	10	20	39	91	117	49	17	19	22	93	63	95	50	17	10	7	720

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 TIME OF DAY: 17:37:43 PAGE

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** JUNE ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 720

TOTAL NUMBER OF VALID OBSERVATIONS: 720

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 7.8 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA:

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G 4.03 5.00 5.97 41.94 31.94 9.31 1.81

DISTRIBUTION OF WIND DIRECTION VS STABILITY NNE E ESE SE SSE S SSW SW WSW W WNW NW NNW CALM N NEENE Α В D 61 59 2 8 Ε 10 29 31 11 7 10 35 28 26 F 0 3 4 5 28 4 7 1 1 G 49 17 TOTAL 91 117

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 41
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** JULY ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	4
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	5	2	0	7
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0 -	0	0	0	0 -	0	0	0	7	5	0	12

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

01111																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2
12.51-18.50	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0		0		0		1	0	2	1	0	5

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 42
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** JULY ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	1	3	2	0	0	0	0	0	0	3	0	1	0	10
7.51-12.50	0	0	0	2	1	0	0	0	0	0	6	6	0	1	0	0	16
12.51-18.50	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0	0	3
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	3	4		0	0	0	0	8	6		2		0	29

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01 1110																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	1	1	0	0	2	0	1	0	1	0	1	0	7
3.51- 7.50	7	6	19	25	21	11	2	0	6	17	13	11	6	2	3	6	155
7.51-12.50	1	6	18	23	10	2	0	0	1	6	24	27	4	0	2	1	125
12.51-18.50	0	4	3	0	0	0	0	0	0	0	6	2	1	4	4	0	24
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8	16	40	48	32	14		0	9	23	44	40	12	6	10	7	311

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 43
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** JULY ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	1	2	1	2	6	9	7	8	7	3	3	1	2	1	1	2	56
3.51- 7.50	13	21	7	11	17	17	10	6	16	32	17	13	10	1	0	8	199
7.51-12.50	0	6	2	1	0	0	0	0	0	3	7	6	3	0	1	0	29
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	1	0	2	1	0	4
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	14	29	10	14	23	26	17	14	23	38	27	21	15	4	3	10	288

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SIBED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	<u>_</u>
1.01- 3.50	0	0	0	0	1	1	3	4	11	10	3	2	2	3	1	1	42
3.51- 7.50	0	0	0	0	0	0	0	1	4	9	10	5	10	0	1	0	40
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	1	1	3	5	15	19	13	7	12			1	83

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 44
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** JULY ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	1	6	0	1	2	0	0	0	10
3.51- 7.50	0	0	0	0	0	0	1	0	1	2	2	0	0	0	0	0	6
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0				0					8				0	0		16

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	 1
1.01- 3.50	1	2	1	2	8	11	10	12	21	19	7	4	7	4	3	3	115
3.51- 7.50	20	27	26	37	41	30	13	7	27	60	42	29	29	5	9	14	416
7.51-12.50	1	12	20	26	11	2	0	0	1	9	37	40	7	3	3	1	173
12.51-18.50	0	4	3	0	0	0	0	0	0	0	9	3	1	12	7	0	39
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	22	45	50	65	60	43	23	19	49	88	95	76	44	24	22	18	744

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 TIME OF DAY: 17:37:43 PAGE

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** JULY ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 744

TOTAL NUMBER OF VALID OBSERVATIONS: 744

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 6.3 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G 1.61 .67 3.90 41.80 38.71 11.16 2.15

DISTRIBUTION OF WIND DIRECTION VS STABILITY N NNE E ESE SE SSE S SSW SW WSW W WNW NW NNW CALM NE ENE Α В D Ε 14 29 10 14 23 26 17 14 23 38 27 21 15 10 0 F 1 3 5 15 19 13 7 1 1 2 1 G 0 1 22 45 50 65 60 43 23 19 95 76 TOTAL

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 46
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** AUGUST ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
7.51-12.50	0	0	0	0	1	0	0	0	0	0	1	0	0	1	5	0	8
12.51-18.50	0	0	0	0	0	0	0	0	0	0	1	0	0	4	1	0	6
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0		1			0			2	0	0		6	0	17

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	1	0	0	0	0	0	0	1	0	1	1	0	4
7.51-12.50	0	0	0	0	0	0	0	0	0	0	7	2	1	0	2	0	12
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	3
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	1	0	0	0	0	0	7	4	2	1	4	0	19

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 47
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** AUGUST ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	1	1	0	0	1	0	0	0	1	0	0	1	0	5
7.51-12.50	0	0	0	5	1	0	0	0	0	0	5	3	2	2	0	4	22
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	3
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	6		0	0	1	0	0		6	3			4	30

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	1	1	0	0	2	1	1	0	0	1	0	0	1	0	8
3.51- 7.50	6	2	13	36	20	10	2	4	18	15	23	14	1	1	5	5	175
7.51-12.50	11	9	16	26	3	0	0	0	3	5	15	14	1	3	2	10	118
12.51-18.50	2	2	0	2	0	0	0	0	0	0	3	5	0	2	0	0	16
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	19	13	30	65	23	10	4	5	22	20	41	34	2	6	8	15	317

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 48
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** AUGUST ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	2	0	0	2	4	7	5	5	8	7	1	2	1	0	0	0	44
3.51- 7.50	3	10	3	13	22	9	4	3	7	31	22	7	4	2	1	0	141
7.51-12.50	1	9	6	5	0	0	0	0	0	0	10	5	4	3	7	3	53
12.51-18.50	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6	19	9	20	26	16	9	8	15	38	34	14	9	6	8	3	240

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	1
1.01- 3.50	0	0	0	0	0	1	3	7	15	14	3	0	1	0	0	0	44
3.51- 7.50	0	0	0	0	0	1	0	0	11	16	5	3	1	1	0	0	38
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	2	3	7	26	30	8	3	2	1	0	0	83

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 49

TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** AUGUST ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	1	9	6	4	1	0	0	0	21
3.51- 7.50	0	0	0	0	0	0	0	0	5	8	3	0	1	0	0	0	17
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0 -	0	0	6	17	9	4		0	0	0	38

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
(MPH)	IN	ININE	NE	ENE	Ŀ	ESE	SE	SSE	۵	SSW	SW	WSW	VV	AATAAA	T// N//	TATAM	IOIAL
CALM																	1
1.01- 3.50	2	0	1	3	4	9	10	13	25	30	10	7	3	0	1	0	118
3.51- 7.50	9	12	16	50	44	20	8	8	41	70	53	26	7	5	8	5	382
7.51-12.50	12	18	22	36	5	0	0	0	3	5	38	24	8	9	16	17	213
12.51-18.50	2	2	0	2	0	0	0	0	0	0	5	8	2	7	2	0	30
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	25	32	39	91	53	29	18	21	69	105	106	65	20	21	27	22	744

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 50
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** AUGUST ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 744

TOTAL NUMBER OF VALID OBSERVATIONS: 744

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 6.5 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G 2.28 2.55 4.03 42.61 32.26 11.16 5.11

						IBUTION											
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	0	1	1	2	0	0	0	2	0	0	5	6	0	0
В	0	0	0	0	1	0	0	0	0	0	7	4	2	1	4	0	0
С	0	0	0	6	2	0	0	1	0	0	5	6	3	2	1	4	0
D	19	13	30	65	23	10	4	5	22	20	41	34	2	6	8	15	0
E	6	19	9	20	26	16	9	8	15	38	34	14	9	6	8	3	0
F	0	0	0	0	0	2	3	7	26	30	8	3	2	1	0	0	1
G	0	0	0	0	0	0	0	0	6	17	9	4	2	0	0	0	0
TOTAL	25	32	39	91	53	29	18	21	69	105	106	65	20	21	27	22	1

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 51
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** SEPTEMBER ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	2
7.51-12.50	0	0	1	0	1	1	0	0	0	0	1	3	5	5	1	0	18
12.51-18.50	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	0	3
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		1	0			0	0	0	0 -	1	4	6	6		0	23

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
7.51-12.50	0	0	0	0	5	0	0	0	0	0	3	2	2	0	1	0	13
12.51-18.50	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		0	0	0	5	0	0	0	0		6	2	3	0		0	17

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 52
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** SEPTEMBER ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
7.51-12.50	0	1	1	1	4	0	0	0	0	3	8	3	0	2	0	0	23
12.51-18.50	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0			1	4	0	0	0	0	3	12	3				0	27

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

SEEED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	1	1	0	4	1	1	0	0	0	1	0	0	0	9
3.51- 7.50	1	2	13	14	14	10	3	3	12	22	15	6	3	2	1	0	121
7.51-12.50	2	25	37	13	3	0	0	0	2	17	18	11	3	0	1	4	136
12.51-18.50	1	26	20	0	0	0	0	0	0	1	6	2	0	0	0	1	57
18.51-24.00	0	0	1	0	0	0	0	0	0	0	3	1	0	0	0	0	5
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
TOTAL	4	53	71	28	18	10	 7	4	15	40	43	20	7	2		5	329

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 53
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** SEPTEMBER ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	2	0	8	1	7	2	1	1	2	1	1	1	27
3.51- 7.50	1	0	1	5	8	12	8	4	13	35	13	5	3	2	0	0	110
7.51-12.50	0	0	0	1	4	1	0	0	2	18	7	3	3	1	3	2	45
12.51-18.50	0	0	0	0	0	0	0	0	0	6	2	0	0	0	3	0	11
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		0 -		6	14	13	16	5	22	61	23	9	9	4	7	3	194

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	2	9	16	4	5	1	2	0	0	0	39
3.51- 7.50	0	0	0	0	1	0	1	2	7	18	4	5	7	1	0	0	46
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0		0			23	22	9	6	9	1	0	0	85

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 54
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** SEPTEMBER ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	1	0	2	6	6	2	0	1	0	0	0	18
3.51- 7.50	0	0	0	0	0	0	0	0	5	10	8	3	1	0	0	0	27
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0			0	2	11	16	10	3		0		0	45

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

OLDED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	1	3	1	14	13	30	12	8	2	6	1	1	1	93
3.51- 7.50	2	2	14	19	24	22	12	9	37	85	42	19	16	5	1	0	309
7.51-12.50	2	26	39	15	17	2	0	0	4	38	37	22	13	8	6	6	235
12.51-18.50	1	27	20	0	0	0	0	0	0	7	13	3	0	1	3	1	76
18.51-24.00	0	0	1	0	0	0	0	0	0	0	3	1	1	0	0	0	6
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
TOTAL	5	55	74	35	44	25	26	22	71	142	104	47	36	15	11	8	720

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

PAGE

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3/ 1/2021 TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** SEPTEMBER ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 720

TOTAL NUMBER OF VALID OBSERVATIONS: 720

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 7.5 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G 45.69 26.94 11.81 6.25 3.19 2.36 3.75

DISTRIBUTION OF WIND DIRECTION VS STABILITY N NNE E ESE SE SSE S SSW SW WSW W WNW NW NNW CALM NEENE Α 1 2 0 1 6 1 В 0 0 0 5 0 0 0 0 0 6 2 3 0 0 0 0 1 1 1 0 12 0 4 0 0 0 3 3 0 5 D 53 71 28 18 10 43 7 15 40 20 2 0 0 6 14 13 16 5 22 61 23 9 9 3 0 4 F 0 0 0 0 1 0 3 11 23 22 9 6 1 0 0 0 0 1 0 G 0 0 0 0 2 11 16 10 3 2 0 0 0 0 5 55 35 44 25 26 22 71 142 104 47 36 8 TOTAL 74 15 11

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 56
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** OCTOBER ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	3
7.51-12.50	0	0	1	0	0	0	0	0	1	2	1	6	2	2	2	0	17
12.51-18.50	0	0	0	1	1	0	0	0	0	1	0	1	1	2	1	0	8
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0											8	3	4		0	28

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01111																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2
7.51-12.50	0	0	0	0	0	0	0	0	0	0	7	4	0	1	1	0	13
12.51-18.50	0	0	0	2	0	0	0	0	0	0	2	1	0	1	0	0	6
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	2	0	0	0	0	0	0	9	5		2		0	21

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 57
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** OCTOBER ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	1	1	0	0	0	0	0	2	1	1	0	0	0	6
7.51-12.50	0	0	2	0	0	0	0	0	2	1	5	1	0	0	3	1	15
12.51-18.50	0	0	0	1	0	0	0	0	0	1	2	1	0	1	2	0	8
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0				0		0		2	9	3				1	29

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

01550																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	 1
1.01- 3.50	0	1	0	1	0	0	0	0	0	1	1	2	2	0	0	0	8
3.51- 7.50	3	4	5	5	4	7	4	1	11	4	11	14	5	12	12	8	110
7.51-12.50	3	12	13	22	8	3	2	5	10	21	15	5	4	5	14	13	155
12.51-18.50	5	8	3	15	1	0	0	0	0	6	8	3	3	6	9	8	75
18.51-24.00	6	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	8
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	17	25	21	43	13	10	6	6	21	32	36	24	14	23	35	30	357

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 58
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** OCTOBER ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	3
1.01- 3.50	0	0	0	0	0	0	1	2	3	2	0	1	3	2	2	0	16
3.51- 7.50	2	2	6	2	5	3	5	8	17	22	13	15	9	2	2	0	113
7.51-12.50	0	7	3	0	0	1	0	5	16	19	17	5	2	6	6	2	89
12.51-18.50	0	3	0	0	0	0	0	0	1	5	8	2	1	1	0	1	22
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	12	9	2	 -	4	6	15	37	48	38	23	15	11	10	3	243

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

21 550																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	1	0	0	4	2	1	1	1	0	0	0	0	10
3.51- 7.50	0	0	0	1	1	0	0	1	5	6	9	4	2	2	0	0	31
7.51-12.50	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	1		0		5	 7	7	11	5		2	0	0	44

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 59
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** OCTOBER ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	1	1	3	4	6	2	0	0	0	0	17
3.51- 7.50	0	0	0	0	0	1	0	1	0	0	1	0	1	1	0	0	5
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0 -	0	0	0	0				3	4	7	2	–		0	0	22

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SIEED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	5
1.01- 3.50	0	1	0	1	1	0	2	7	8	8	8	6	5	2	2	0	51
3.51- 7.50	5	6	11	9	11	11	9	12	33	32	37	35	19	17	15	8	270
7.51-12.50	3	20	19	22	8	4	2	10	29	43	46	21	8	14	26	16	291
12.51-18.50	5	11	3	19	2	0	0	0	1	13	20	8	5	11	12	9	119
18.51-24.00	6	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	8
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	19	38	33	51	22	15	13	29	71	96	112	70	37	44	55	34	744

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 TIME OF DAY: 17:37:43 PAGE

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** OCTOBER ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 744

TOTAL NUMBER OF VALID OBSERVATIONS: 744

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 8.5 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G 3.76 2.82 3.90 47.98 32.66 5.91 2.96

DISTRIBUTION OF WIND DIRECTION VS STABILITY N NNE E ESE SE SSE S SSW SW WSW W WNW NW NNW CALM NEENE Α В D 10 6 6 2 5 4 6 15 37 48 38 23 15 11 10 3 3 F 0 0 5 11 5 0 1 G 51 22 15 13 29 TOTAL *******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 61
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** NOVEMBER ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	1	2	1	3	2	0	0	9
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0					4		0	11

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SEEED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	0	1	7	2	1	0	0	0	11
12.51-18.50	0	0	0	0	0	0	0	0	0	0	5	3	0	0	0	0	8
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	2	12	5		0	0	0	20

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 62
TIME OF DAY: 17:37:43 PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** NOVEMBER ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	0	4	5	1	2	0	1	0	13
12.51-18.50	0	0	0	0	0	0	0	0	0	1	0	1	1	2	0	0	5
18.51-24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	0	0		0	0	6	6		3			0	20

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

01550																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	4	14	5	1	2	7	9	4	10	8	3	2	1	0	1	71
7.51-12.50	5	7	6	10	0	1	6	1	10	21	18	16	3	4	4	4	116
12.51-18.50	3	1	2	4	0	0	0	1	6	8	13	13	4	5	8	3	71
18.51-24.00	1	1	0	0	0	0	0	0	0	1	13	2	6	3	11	8	46
>24.00	0	0	0	0	0	0	0	0	0	0	9	1	0	0	1	0	11
TOTAL	9	13	22	19		3	13	11	20	40	61	35	15	13	24	16	315

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 63
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** NOVEMBER ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	1	2	2	3	0	0	0	1	0	1	0	10
3.51- 7.50	0	0	0	3	4	2	6	8	15	18	10	8	8	2	2	0	86
7.51-12.50	0	0	0	0	0	2	6	5	27	30	15	6	5	4	5	0	105
12.51-18.50	2	0	0	0	0	0	0	1	10	18	12	1	2	2	1	0	49
18.51-24.00	0	0	0	0	0	0	0	0	0	0	3	0	0	1	0	0	4
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	0	0	3	4	5	14	16	55	66	40	15	16	9	9	0	254

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01 1110																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	2
3.51- 7.50	0	0	0	3	0	0	0	6	21	21	4	7	0	0	0	0	62
7.51-12.50	0	0	0	0	0	0	0	0	2	0	2	0	0	1	0	0	5
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0				0	6	24	21	7	7	0		0	0	69

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 64

TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** NOVEMBER ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	1	6	2	0	0	0	0	0	0	0	9
3.51- 7.50	0	0	0	0	3	2	1	9	7	0	0	0	0	0	0	0	22
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	3			15	9	0 -	0	0	0	0	0 -	0	31

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01550																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	1	3	8	6	0	1	0	1	0	1	0	21
3.51- 7.50	0	4	14	11	8	6	14	32	47	51	22	18	10	3	2	1	243
7.51-12.50	5	7	6	10	0	3	12	6	39	57	49	26	14	11	10	4	259
12.51-18.50	5	1	2	4	0	0	0	2	16	27	30	18	7	11	9	3	135
18.51-24.00	1	1	0	0	0	0	0	0	0	1	17	2	6	4	11	8	51
>24.00	0	0	0	0	0	0	0	0	0	0	9	1	0	0	1	0	11
TOTAL	11	13	22	25	8	10	29	48	108	136	128	65	38	29	34	16	720

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 65
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** NOVEMBER ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 720

TOTAL NUMBER OF VALID OBSERVATIONS: 720

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 10.2 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

B C D E F G A 1.53 2.78 2.78 43.75 35.28 9.58 4.31

					DISTR	IBUTION	OF WINI	DIREC	TION VS	STABIL	ITY						
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	Ω	0	Ω	0	Ω	Ω	Ο	0	Ο	1	2	1	3	Д	0	0	Ω
	0	0	0	0	0	0	0	0	0	_		_	_	-	0	0	0
В	0	0	0	0	0	0	0	0	Ü	2	12	5	1	0	Ü	0	0
C	0	0	0	0	0	0	0	0	0	6	6	2	3	2	1	0	0
D	9	13	22	19	1	3	13	11	20	40	61	35	15	13	24	16	0
E	2	0	0	3	4	5	14	16	55	66	40	15	16	9	9	0	0
F	0	0	0	3	0	0	0	6	24	21	7	7	0	1	0	0	0
G	0	0	0	0	3	2	2	15	9	0	0	0	0	0	0	0	0
TOTAL	11	13	22	25	8	10	29	48	108	136	128	65	38	29	34	16	0

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 66
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** DECEMBER ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0 -	0	0	0	0 -	0	0			0	0	0	0 -	0	0	1

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

21 1110																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	2	3	2	0	0	7
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0	0	0	0	0	0	4	3	3	0	0	10

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 67

TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** DECEMBER ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	2
7.51-12.50	0	0	0	2	0	0	0	0	0	0	1	2	0	0	0	0	5
12.51-18.50	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0		0	0	0	0	1			2	0		0	0	9

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
,																	
CALM																	1
1.01- 3.50	0	0	0	3	3	1	1	1	0	1	1	2	0	0	2	2	17
3.51- 7.50	5	1	0	3	6	4	3	3	1	10	6	20	2	11	16	14	105
7.51-12.50	6	4	6	4	11	3	2	6	12	10	16	31	26	14	15	22	188
12.51-18.50	0	5	1	4	3	0	0	1	6	19	30	17	8	9	4	3	110
18.51-24.00	0	0	0	0	0	0	0	0	3	0	16	5	0	0	1	0	25
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	11	10	7	14	23	8	6	11	22	40	69	75	36	34	38	41	446

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 68
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** DECEMBER ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	1	1	0	3	0	2	0	0	0	1	1	0	9
3.51- 7.50	0	1	0	0	1	2	3	20	19	11	1	15	7	2	5	2	89
7.51-12.50	0	0	3	3	0	0	1	9	17	18	5	10	15	5	1	1	88
12.51-18.50	0	0	0	0	0	0	0	2	11	8	10	0	4	2	0	0	37
18.51-24.00	0	0	0	0	0	0	0	0	3	0	1	0	0	0	0	0	4
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
TOTAL	0		3	3	2	3	4	34	50	39	18	25	26	10	7	3	228

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01111																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	1	0	1	0	2	2	0	1	0	0	0	0	0	0	7
3.51- 7.50	1	0	1	1	0	1	0	4	8	3	0	1	1	0	0	0	21
7.51-12.50	0	0	2	0	0	0	1	0	0	0	0	0	0	0	0	0	3
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		0	4	1		1		6	8	4	0	1		0	0	0	31

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 69
TIME OF DAY: 17:37:43 PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** DECEMBER ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	2	0	0	4	3	1	0	1	0	0	0	11
3.51- 7.50	0	0	0	0	1	1	1	0	4	0	0	0	0	0	0	0	7
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0		3	1	0	8	3	1	0		0 -	0	0	18

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	1	3	5	4	3	6	4	7	2	2	1	1	3	2	44
3.51- 7.50	6	2	1	4	8	8	7	27	32	24	8	37	10	14	21	16	225
7.51-12.50	6	4	11	9	11	3	4	15	29	28	22	45	44	21	16	23	291
12.51-18.50	0	5	1	4	3	0	0	3	18	29	40	18	12	12	4	3	152
18.51-24.00	0	0	0	0	0	0	0	0	6	0	17	5	0	0	1	0	29
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
TOTAL	12	 -	14	20	27		14	 51	89	88	90	107	67	48	45	44	743

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 70
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** DECEMBER ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 744

TOTAL NUMBER OF VALID OBSERVATIONS: 743

TOTAL NUMBER OF MISSING OBSERVATIONS: 1

PERCENT DATA RECOVERY FOR THIS PERIOD: 99.9 % MEAN WIND SPEED FOR THIS PERIOD: 9.6 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G .13 1.35 1.21 60.03 30.69 4.17 2.42

						IBUTION				STABIL							
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
А	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
В	0	0	0	0	0	0	0	0	0	0	0	4	3	3	0	0	0
С	0	0	0	2	0	0	0	0	1	1	2	2	0	1	0	0	0
D	11	10	7	14	23	8	6	11	22	40	69	75	36	34	38	41	1
E	0	1	3	3	2	3	4	34	50	39	18	25	26	10	7	3	0
F	1	0	4	1	1	1	3	6	8	4	0	1	1	0	0	0	0
G	0	0	0	0	1	3	1	0	8	3	1	0	1	0	0	0	0
TOTAL	12	11	14	20	27	15	14	51	89	88	90	107	67	48	45	44	1

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 71
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** WINTER ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	1	0	2	0	0	3	3	4	13
7.51-12.50	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	2	4
12.51-18.50	0	0	0	0	0	0	0	0	0	1	1	2	0	1	1	1	7
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0		0 -	0	0			3		0	4	5	7	24

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01550																	
(MPH)	N	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	1	0	0	0	0	1	1	2	1	0	0	0	6
7.51-12.50	0	0	0	0	3	0	0	0	0	1	1	4	4	2	4	1	20
12.51-18.50	0	0	0	0	0	0	0	0	0	0	2	3	1	2	1	0	9
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	4	0	0	0		2	4	9	6	4	5	1	35

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 72
TIME OF DAY: 17:37:43 PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** WINTER ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
3.51- 7.50	0	0	0	0	0	1	0	0	0	0	5	0	1	2	0	1	10
7.51-12.50	1	0	0	2	1	0	0	0	0	0	3	7	1	1	1	1	18
12.51-18.50	0	0	0	0	1	0	0	0	1	2	7	6	3	4	0	0	24
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL			0								15	14		7		2	54

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

011111																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	<u>_</u>
1.01- 3.50	1	3	0	8	8	5	8	7	6	6	2	8	5	0	2	2	71
3.51- 7.50	7	6	5	19	24	9	9	5	8	30	19	34	19	20	31	21	266
7.51-12.50	20	21	31	12	23	16	7	14	21	36	33	76	56	24	37	41	468
12.51-18.50	7	20	42	16	3	0	2	2	10	29	42	74	39	22	31	16	355
18.51-24.00	2	0	1	1	0	0	0	0	3	0	20	22	7	0	5	1	62
>24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
TOTAL	37	50	79	56	58	30	26	28	48	101	117	214	126	66	106	81	1224

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 73

TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** WINTER ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	1	0	0	1	3	3	2	5	9	8	8	12	2	2	2	9	67
3.51- 7.50	2	3	3	2	7	9	5	25	39	64	40	41	23	8	10	3	284
7.51-12.50	0	3	8	6	7	1	1	12	29	58	32	36	45	8	7	1	254
12.51-18.50	0	0	4	0	0	0	0	3	13	18	27	10	9	5	3	0	92
18.51-24.00	0	0	0	0	0	0	0	0	4	3	1	2	0	0	0	0	10
>24.00	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	2
TOTAL		6	15	9	17	13	8	45	94	151	110	101	79	23	22	13	709

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

OLUDD																	
(MPH)	N	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	1	0	1	2	2	2	1	2	0	0	0	0	0	0	11
3.51- 7.50	2	1	2	1	4	8	1	5	11	15	10	1	2	0	0	0	63
7.51-12.50	0	0	2	0	7	0	1	0	0	1	1	1	1	0	1	0	15
12.51-18.50	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	2	1	5	1	14	10	4	7	12	18	11	2	3	0	1	0	91

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 74

TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** WINTER ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	2	2	0	4	4	1	0	1	0	0	0	14
3.51- 7.50	0	0	0	0	1	4	1	0	4	0	0	0	0	0	0	0	10
7.51-12.50	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0		6		0	8	4		0		0	0	0	25

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

SFEED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	1
1.01- 3.50	2	3	1	9	12	12	14	15	20	20	11	20	8	2	4	11	164
3.51- 7.50	11	10	10	22	37	31	16	35	63	110	77	78	46	33	44	29	652
7.51-12.50	21	24	41	20	43	17	9	26	50	96	70	124	107	35	51	46	780
12.51-18.50	7	20	46	16	6	0	2	5	24	50	79	95	52	34	36	17	489
18.51-24.00	2	0	1	1	0	0	0	0	7	3	21	25	7	0	5	1	73
>24.00	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	3
TOTAL	43	57	99	68	98	60	41	81	164	279	261	342	220	104	140	104	2162

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 75
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** WINTER ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2184

TOTAL NUMBER OF VALID OBSERVATIONS: 2162

TOTAL NUMBER OF MISSING OBSERVATIONS: 22

PERCENT DATA RECOVERY FOR THIS PERIOD: 99.0 %

MEAN WIND SPEED FOR THIS PERIOD: 9.6 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

B C D E F G A 1.11 1.62 2.50 56.61 32.79 4.21 1.16

					DISTR	IBUTION	OF WINI	DIREC	TION VS	STABIL	ITY						
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
А	0	0	0	0	1	0	0	0	1	1	3	2	0	4	5	7	0
В	0	0	0	0	4	0	0	0	0	2	4	9	6	4	5	1	0
C	1	0	0	2	2	1	0	1	1	2	15	14	5	7	1	2	0
D	37	50	79	56	58	30	26	28	48	101	117	214	126	66	106	81	1
E	3	6	15	9	17	13	8	45	94	151	110	101	79	23	22	13	0
F	2	1	5	1	14	10	4	7	12	18	11	2	3	0	1	0	0
G	0	0	0	0	2	6	3	0	8	4	1	0	1	0	0	0	0
TOTAL	43	57	99	68	98	60	41	81	164	279	261	342	220	104	140	104	1

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 76
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** SPRING ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	2	5	0	0	0	0	0	3	1	4	2	0	17
7.51-12.50	0	0	0	1	9	2	2	0	0	1	10	7	2	3	20	2	59
12.51-18.50	0	0	0	1	6	0	0	0	0	0	3	3	5	5	6	1	30
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	4	3	4	0	11
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
TOTAL	0	0	0		17	7	2	0			13	13	13	15	32	3	118

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SIBD																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	2	0	0	1	0	3	0	0	0	1	2	3	1	0	0	4	17
7.51-12.50	1	0	0	3	5	2	0	0	1	2	4	2	2	2	2	2	28
12.51-18.50	0	0	1	3	4	0	0	0	0	1	4	3	7	2	1	0	26
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	2	5	1	2	0	10
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
TOTAL	3	0		7	9	5		0		4	10	10	17	5	5	6	84

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 77

TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** SPRING ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
3.51- 7.50	1	0	1	0	4	7	4	0	0	1	3	1	0	1	1	1	25
7.51-12.50	2	1	1	4	10	2	0	0	1	3	2	4	0	4	2	0	36
12.51-18.50	0	0	0	4	6	0	0	0	1	2	1	9	8	1	2	0	34
18.51-24.00	0	0	1	0	0	0	0	0	0	0	0	1	5	0	1	0	8
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL				8	20	9	4	0		6	6	15	13	6	6	3	105

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

011111																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	3	4	4	3	4	4	3	2	1	1	1	0	0	30
3.51- 7.50	6	13	12	43	49	40	25	14	21	16	11	9	6	1	4	8	278
7.51-12.50	31	29	40	70	100	25	1	3	21	28	16	19	16	15	17	10	441
12.51-18.50	26	14	21	25	25	4	0	0	4	6	13	20	23	8	11	7	207
18.51-24.00	7	2	5	0	0	0	0	0	0	1	2	6	6	6	6	3	44
>24.00	0	0	0	0	0	0	0	0	0	0	0	7	2	4	0	0	13
TOTAL	70	58	78	141	178	73	29	21	50	54	44	62	54	35	38	28	1013

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 78

TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** SPRING ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	5
1.01- 3.50	0	0	1	2	4	7	6	15	12	12	2	1	2	6	2	1	73
3.51- 7.50	4	5	6	9	27	37	10	19	28	42	33	23	22	11	4	3	283
7.51-12.50	3	0	6	6	11	21	0	6	10	44	29	20	31	17	9	8	221
12.51-18.50	3	1	5	1	6	0	0	0	2	9	14	11	10	14	5	6	87
18.51-24.00	0	3	1	0	0	0	0	0	0	0	1	2	1	3	0	0	11
>24.00	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
TOTAL	10	10	20	18	48	65	16	40	52	107	79	57	66	51	20	18	682

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01 1110																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	2
1.01- 3.50	1	0	1	1	0	6	4	10	21	9	1	4	1	1	0	0	60
3.51- 7.50	1	0	3	3	11	9	4	2	14	14	10	1	5	4	0	1	82
7.51-12.50	0	0	0	1	3	4	2	0	2	3	0	2	2	0	0	0	19
12.51-18.50	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	3
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		0	4	5	14	19	10	12	37	29	11	7	8	5	0	1	166

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 79
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** SPRING ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	1	0	0	3	1	2	1	1	1	0	0	0	0	0	10
3.51- 7.50	0	0	0	0	1	3	2	1	1	0	2	0	1	1	0	0	12
7.51-12.50	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	2
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	1	0		6	3	4			3	0			0	0	24

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

01550																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	7
1.01- 3.50	1	0	3	6	8	20	15	31	38	25	6	6	4	8	2	3	176
3.51- 7.50	14	18	22	56	94	104	45	36	64	74	61	40	36	22	11	17	714
7.51-12.50	37	30	47	85	139	56	5	10	35	81	61	54	53	41	50	22	806
12.51-18.50	29	15	27	34	47	4	0	0	7	21	35	46	53	30	25	14	387
18.51-24.00	7	5	7	0	0	0	0	0	0	1	3	11	21	13	13	3	84
>24.00	0	1	1	0	0	0	0	0	0	0	0	7	5	4	0	0	18
TOTAL	88	69	107	181	288	184	65	77	144	202	166	164	172	118	101	59	2192

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 80
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** SPRING ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2208

TOTAL NUMBER OF VALID OBSERVATIONS: 2192

TOTAL NUMBER OF MISSING OBSERVATIONS: 16

PERCENT DATA RECOVERY FOR THIS PERIOD: 99.3 %

MEAN WIND SPEED FOR THIS PERIOD: 9.2 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G 5.38 3.83 4.79 46.21 31.11 7.57 1.09

					DISTR	IBUTION	OF WINI	D DIREC	TION VS	STABIL	ITY						
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	0	0	2	17	7	2	0	0	1	13	13	13	15	32	3	0
В	3	0	1	7	9	5	1	0	1	4	10	10	17	5	5	6	0
С	3	1	3	8	20	9	4	0	2	6	6	15	13	6	6	3	0
D	70	58	78	141	178	73	29	21	50	54	44	62	54	35	38	28	0
E	10	10	20	18	48	65	16	40	52	107	79	57	66	51	20	18	5
F	2	0	4	5	14	19	10	12	37	29	11	7	8	5	0	1	2
G	0	0	1	0	2	6	3	4	2	1	3	0	1	1	0	0	0
TOTAL	88	69	107	181	288	184	65	77	144	202	166	164	172	118	101	59	7

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 81
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** SUMMER ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	3
3.51- 7.50	0	0	1	0	2	0	2	0	0	0	0	0	0	1	3	0	9
7.51-12.50	0	0	0	0	4	0	0	0	0	0	3	4	1	2	7	0	21
12.51-18.50	0	0	0	5	1	0	0	0	0	0	1	2	3	10	3	0	25
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0			<u>_</u>	7			0			4	6	4	13	14		58

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SEEED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	3	0	0	0	0	1	1	1	0	3	3	0	12
7.51-12.50	0	0	0	1	5	0	0	0	0	0	9	7	2	3	2	1	30
12.51-18.50	0	0	0	8	1	0	0	0	0	0	1	2	4	0	1	0	17
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	9	9	0	0	0	0		11	10	7	6	6	1	60

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 82
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** SUMMER ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	3	7	2	0	1	0	0	2	3	3	0	2	0	23
7.51-12.50	0	0	3	9	10	0	0	0	0	0	13	14	5	3	0	5	62
12.51-18.50	0	0	1	1	1	0	0	0	0	0	3	5	4	1	0	0	16
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	4	13	18		0		0	0	18	22	13	4		5	102

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01 000																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	1	1	4	2	2	2	3	1	2	2	2	1	2	1	26
3.51- 7.50	14	15	43	83	73	36	6	11	26	42	46	31	9	3	9	11	458
7.51-12.50	18	16	46	79	33	3	0	0	4	18	44	59	11	8	5	11	355
12.51-18.50	2	6	8	11	4	0	0	0	3	5	12	20	5	8	4	0	88
18.51-24.00	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	3
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	34	37	98	174	114	41	8	13	36	66	105	113	28	20	20	23	930

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 83
TIME OF DAY: 17:37:43 PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** SUMMER ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	4	4	3	5	15	20	15	16	17	16	8	5	6	2	2	3	141
3.51- 7.50	16	38	12	30	60	51	22	13	29	83	55	31	22	4	1	8	475
7.51-12.50	3	17	9	8	3	2	0	0	2	12	24	19	12	4	8	3	126
12.51-18.50	0	0	0	1	0	0	0	0	0	0	2	6	1	3	2	1	16
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	23	59	24	44	78	73	37	29	48	111	89	61	41	13	13	15	758

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SIEED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	3
1.01- 3.50	0	1	1	0	1	2	8	14	30	33	7	3	4	5	1	2	112
3.51- 7.50	0	0	0	0	0	1	1	2	16	43	18	13	13	1	3	0	111
7.51-12.50	0	0	0	0	3	0	0	0	0	1	0	0	0	0	0	0	4
12.51-18.50	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	0	3
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0			2	4	3	9	16	46	77	25	17	17	6	4	2	233

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 84
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** SUMMER ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	1	0	4	16	7	5	3	0	0	0	36
3.51- 7.50	0	0	0	0	0	1	1	0	6	15	5	2	1	0	0	0	31
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	0			0	10	31	12	7	4	0	0	0	67

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

01220																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	3
1.01- 3.50	4	5	5	6	20	25	26	32	54	66	24	15	15	8	6	7	318
3.51- 7.50	30	53	56	116	145	91	32	27	77	184	127	81	48	12	21	19	1119
7.51-12.50	21	33	58	97	58	5	0	0	6	31	93	103	31	20	22	20	598
12.51-18.50	2	6	9	28	7	0	0	0	3	5	19	36	17	22	10	1	165
18.51-24.00	0	0	0	0	0	0	0	0	0	0	1	1	3	0	0	0	5
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	57	97	128	247	230	121	58	59	140	286	264	236	114	62	59	47	2208

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 85
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** SUMMER ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2208

TOTAL NUMBER OF VALID OBSERVATIONS: 2208

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 6.9 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

B C D E F A 2.63 2.72 4.62 42.12 34.33 10.55 3.03

					DISTR	IBUTION	OF WIN	D DIREC	TION VS	STABIL	ITY						
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
А	0	0	1	5	7	1	2.	0	0	0	4	6	4	1.3	14	1	0
В	0	0	0	9	9	0	0	0	0	1	11	10	7	6	6	1	0
С	0	0	4	13	18	2	0	1	0	0	18	22	13	4	2	5	0
D	34	37	98	174	114	41	8	13	36	66	105	113	28	20	20	23	0
E	23	59	24	44	78	73	37	29	48	111	89	61	41	13	13	15	0
F	0	1	1	2	4	3	9	16	46	77	25	17	17	6	4	2	3
G	0	0	0	0	0	1	2	0	10	31	12	7	4	0	0	0	0
TOTAL	57	97	128	247	230	121	58	59	140	286	264	236	114	62	59	47	3

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 86
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** FALL ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	1	0	0	1	0	0	1	1	1	0	0	0	5
7.51-12.50	0	0	2	0	1	1	0	0	1	3	4	10	10	9	3	0	44
12.51-18.50	0	1	0	1	1	0	0	0	0	1	0	2	1	5	1	0	13
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0			1	3					4		13	12	14	4	0	62

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

21 550																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	0	0	0	0	0	0	1	0	0	2	0	1	0	4
7.51-12.50	0	0	0	0	5	0	0	0	0	1	17	8	3	1	2	0	37
12.51-18.50	0	0	0	2	0	0	0	0	0	0	10	4	0	1	0	0	17
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL			0				0		0		27	12	5		3	0	58

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 87
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** FALL ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	Ε	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3.51- 7.50	0	0	0	1	1	0	0	0	0	1	4	1	1	0	0	0	9
7.51-12.50	0	1	3	1	4	0	0	0	2	8	18	5	2	2	4	1	51
12.51-18.50	0	0	0	1	0	0	0	0	0	2	4	2	1	3	2	0	15
18.51-24.00	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		3	3	= 5	0	0	0		11	27	8	4	5	6		76

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	1	0	2	1	0	4	1	1	1	1	2	3	0	0	0	17
3.51- 7.50	4	10	32	24	19	19	14	13	27	36	34	23	10	15	13	9	302
7.51-12.50	10	44	56	45	11	4	8	6	22	59	51	32	10	9	19	21	407
12.51-18.50	9	35	25	19	1	0	0	1	6	15	27	18	7	11	17	12	203
18.51-24.00	7	1	1	0	0	0	0	0	0	1	17	3	6	3	11	9	59
>24.00	0	0	0	0	0	0	0	0	0	0	10	1	0	0	1	0	12
TOTAL	30	91	114	90	32	23	26	21	56	112	140	79	36	38	61	51	1001

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 88
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** FALL ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	3
1.01- 3.50	0	0	0	0	2	1	11	5	13	4	1	2	6	3	4	1	53
3.51- 7.50	3	2	7	10	17	17	19	20	45	75	36	28	20	6	4	0	309
7.51-12.50	0	7	3	1	4	4	6	10	45	67	39	14	10	11	14	4	239
12.51-18.50	2	3	0	0	0	0	0	1	11	29	22	3	3	3	4	1	82
18.51-24.00	0	0	0	0	0	0	0	0	0	0	3	0	1	1	0	0	5
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL		12	10		23	22	36	36	114	175	101	47	40	24	26	6	691

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

01550																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	1
1.01- 3.50	0	0	0	0	1	0	2	13	19	5	7	2	2	0	0	0	51
3.51- 7.50	0	0	0	4	2	0	1	9	33	45	17	16	9	3	0	0	139
7.51-12.50	0	1	0	0	0	0	0	0	2	0	3	0	0	1	0	0	7
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	4	3	0	3	22	54	50	27	18	11	4	0	0	198

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 89
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** FALL ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	1	2	9	11	10	8	2	1	0	0	0	44
3.51- 7.50	0	0	0	0	3	3	1	10	12	10	9	3	2	1	0	0	54
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0		0	0	3	4		19	23	20	17	5	3		0	0	98

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	5
1.01- 3.50	0	1	0	2	4	2	19	28	44	20	17	8	12	3	4	1	165
3.51- 7.50	7	12	39	39	43	39	35	53	117	168	101	72	45	25	18	9	822
7.51-12.50	10	53	64	47	25	9	14	16	72	138	132	69	35	33	42	26	785
12.51-18.50	11	39	25	23	2	0	0	2	17	47	63	29	12	23	24	13	330
18.51-24.00	7	1	1	0	0	0	0	0	0	1	21	3	7	4	11	9	65
>24.00	0	0	0	0	0	0	0	0	0	0	10	1	0	0	1	0	12
TOTAL	35	106	129	111	74	50	68	99	250	374	344	182	111	88	100	58	2184

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 90
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** FALL ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2184

TOTAL NUMBER OF VALID OBSERVATIONS: 2184

TOTAL NUMBER OF MISSING OBSERVATIONS: 0

PERCENT DATA RECOVERY FOR THIS PERIOD: 100.0 %

MEAN WIND SPEED FOR THIS PERIOD: 8.7 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

B C D E F A 2.84 2.66 3.48 45.83 31.64 9.07 4.49

						IBUTION	OF, MINI			STABIL							
	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	0	1	2	1	3	1	0	1	1	4	5	13	12	14	4	0	0
В	0	0	0	2	5	0	0	0	0	2	27	12	5	2	3	0	0
С	0	1	3	3	5	0	0	0	2	11	27	8	4	5	6	1	0
D	30	91	114	90	32	23	26	21	56	112	140	79	36	38	61	51	1
E	5	12	10	11	23	22	36	36	114	175	101	47	40	24	26	6	3
F	0	1	0	4	3	0	3	22	54	50	27	18	11	4	0	0	1
G	0	0	0	0	3	4	3	19	23	20	17	5	3	1	0	0	0
TOTAL	35	106	129	111	74	50	68	99	250	374	344	182	111	88	100	58	5

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 91
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** ANNUAL ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	1	3
3.51- 7.50	0	0	1	0	5	5	2	1	1	0	3	4	2	8	8	4	44
7.51-12.50	0	0	2	1	15	3	2	0	1	4	17	21	13	14	31	4	128
12.51-18.50	0	1	0	7	8	0	0	0	0	2	5	9	9	21	11	2	75
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	4	3	4	0	11
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
TOTAL	0	1	3	8	28	9	4			6	25	34	29	46	55	11	262

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SEEED																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	
1.01- 3.50	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	2	0	0	1	4	3	0	0	0	4	4	6	4	3	4	4	39
7.51-12.50	1	0	0	4	18	2	0	0	1	4	31	21	11	8	10	4	115
12.51-18.50	0	0	1	13	5	0	0	0	0	1	17	12	12	5	3	0	69
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	2	6	1	2	0	11
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
TOTAL		0		18	27	5		0	1	9	52	41	35	17	19	8	237

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 92
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** ANNUAL ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2	3
3.51- 7.50	1	0	1	4	12	10	4	1	0	2	14	5	5	3	3	2	67
7.51-12.50	3	2	7	16	25	2	0	0	3	11	36	30	8	10	7	7	167
12.51-18.50	0	0	1	6	8	0	0	0	2	6	15	22	16	9	4	0	89
18.51-24.00	0	0	1	0	0	0	0	0	0	0	1	2	6	0	1	0	11
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4		10	26	45	12	4			19	66	59	35	22	15	11	337

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

01 110																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	2
1.01- 3.50	1	4	1	14	17	11	17	14	14	11	7	13	11	2	4	3	144
3.51- 7.50	31	44	92	169	165	104	54	43	82	124	110	97	44	39	57	49	1304
7.51-12.50	79	110	173	206	167	48	16	23	68	141	144	186	93	56	78	83	1671
12.51-18.50	44	75	96	71	33	4	2	3	23	55	94	132	74	49	63	35	853
18.51-24.00	16	3	7	1	0	0	0	0	3	2	40	32	20	9	22	13	168
>24.00	0	0	0	0	0	0	0	0	0	0	11	8	2	4	1	0	26
TOTAL	171	236	369	461	382	167	89	83	190	333	406	468	244	159	225	183	4168

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 93
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** ANNUAL ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	8
1.01- 3.50	5	4	4	8	24	31	34	41	51	40	19	20	16	13	10	14	334
3.51- 7.50	25	48	28	51	111	114	56	77	141	264	164	123	87	29	19	14	1351
7.51-12.50	6	27	26	21	25	28	7	28	86	181	124	89	98	40	38	16	840
12.51-18.50	5	4	9	2	6	0	0	4	26	56	65	30	23	25	14	8	277
18.51-24.00	0	3	1	0	0	0	0	0	4	3	5	4	2	4	0	0	26
>24.00	0	1	1	0	0	0	0	0	0	0	2	0	0	0	0	0	4
TOTAL	41	87	69	82	166	173	97	150	308	544	379	266	226	111	81	52	2840

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

SPEED

(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	6
1.01- 3.50	1	1	3	1	3	10	16	39	71	49	15	9	7	6	1	2	234
3.51- 7.50	3	1	5	8	17	18	7	18	74	117	55	31	29	8	3	1	395
7.51-12.50	0	1	2	1	13	4	3	0	4	5	4	3	3	1	1	0	45
12.51-18.50	0	0	0	2	2	0	0	0	0	3	0	1	0	0	0	0	8
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	3	10	12	35	32	26	57	149	174	74	44	39	15	5	3	688

*******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 94
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/1/20 - 12/31/20

*** ANNUAL ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 35.00 FEET

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	0
1.01- 3.50	0	0	1	0	0	6	6	11	20	31	17	7	5	0	0	0	104
3.51- 7.50	0	0	0	0	5	11	5	11	23	25	16	5	4	2	0	0	107
7.51-12.50	0	0	0	0	2	0	0	1	0	0	0	0	0	0	0	0	3
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0		0	 7	17	11	23	43	56	33	12	9		0	0	214

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET

WIND THRESHOLD AT: 1.00 MPH

011111																	
(MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	M	WNW	NW	NNW	TOTAL
CALM																	16
1.01- 3.50	7	9	9	23	44	59	74	106	156	131	58	49	39	21	16	22	823
3.51- 7.50	62	93	127	233	319	265	128	151	321	536	366	271	175	92	94	74	3307
7.51-12.50	89	140	210	249	265	87	28	52	163	346	356	350	226	129	165	114	2969
12.51-18.50	49	80	107	101	62	4	2	7	51	123	196	206	134	109	95	45	1371
18.51-24.00	16	6	9	1	0	0	0	0	7	5	46	40	38	17	29	13	227
>24.00	0	1	1	0	0	0	0	0	0	0	13	8	5	4	1	0	33
TOTAL	223	329	463	607	690	415	232	316	698	1141	1035	924	617	372	400	268	8746

******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 TIME OF DAY: 17:37:43 PAGE

PROGRAM: JFD VERSION: PC-1.2

*******DAVIS-BESSE 75-10 DT, NO BACKUP ******

SITE IDENTIFIER: 20

DATA PERIOD EXAMINED: 1/ 1/20 - 12/31/20

*** ANNUAL ***

STABILITY BASED ON: DELTA T BETWEEN 250.0 AND 35.0 FEET

WIND MEASURED AT: 35.0 FEET WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 8784

TOTAL NUMBER OF VALID OBSERVATIONS: 8746

TOTAL NUMBER OF MISSING OBSERVATIONS: 38

PERCENT DATA RECOVERY FOR THIS PERIOD: 99.6 %

MEAN WIND SPEED FOR THIS PERIOD: 8.6 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A B C D E F G 3.00 2.71 3.85 47.66 32.47 7.87 2.45

DISTRIBUTION OF WIND DIRECTION VS STABILITY N NNE E ESE SE SSE S SSW SW WSW W WNW NW NNW CALM NEENE Α В D 333 406 69 82 166 173 97 150 308 544 379 266 226 111 52 8 F 32 26 74 44 3 6 G 415 232 316 TOTAL 223 329 607 690 698 1141 1035 268 16 *******DAVIS-BESSE ENVIRONMENTAL COMPLIANCE UNIT ***

3/ 1/2021 PAGE 96
TIME OF DAY: 17:37:43

PROGRAM: JFD VERSION: PC-1.2

LAST DATA RECORD READ: 20 20 12 31 24 -99.0 -99.0 -99.0

OUTPUT FILE NAME :DB20JFDL.OUT

20 1 1 1 251.80	20.67 4.42		999.00 246.40	19.54	4.72	26.43		15.43	7.67		999.00		999.00	-1.24	0.00
20 1 1 2 252.20	20.32 4.60		999.00 246.80	19.12	5.03	26.68		14.43	7.93	27.90	999.00	-1.77	999.00	-1.19	0.00
20 1 1 3 255.50	20.89 4.52		999.00 250.10	20.16	5.16	27.30		15.42	8.48	28.46	999.00		999.00	-1.16	0.00
20 1 1 4 254.80	21.32 5.05		999.00 249.60	20.40	5.80	27.60		14.65	9.82	28.75	999.00	-1.72	999.00	-1.17	0.00
20 1 1 5 255.40	22.16 4.80		999.00 249.30	21.08	5.48	27.59		16.05	8.12	28.70	999.00	-1.66	999.00	-1.11	0.00
20 1 1 6 259.90	23.72 5.79	9 26.98	999.00 254.20	22.13	6.45	27.53	250.40	16.36	8.22	28.61	999.00	-1.58	999.00	-1.02	0.00
20 1 1 7 262.50	18.23 6.82	26.82	999.00 257.60	15.66	7.32	27.33	254.80	10.61	10.02	28.20	999.00	-1.27	999.00	-0.80	0.00
20 1 1 8 261.40	17.05 5.64	4 26.58	999.00 256.50	15.10	6.11	27.07	254.50	9.78	9.12	27.77	999.00	-1.19	999.00	-0.71	0.00
20 1 1 9 259.80	14.67 5.70	26.25	999.00 254.90	12.70	7.03	26.76	254.20	9.22	8.42	27.49	999.00	-1.34	999.00	-0.81	0.00
20 1 1 10 253.20	19.85 5.38	3 26.22	999.00 246.70	18.88	5.64	26.72	239.80	14.74	8.03	27.83	999.00	-1.77	999.00	-1.25	0.00
20 1 1 11 253.10	19.48 6.1		999.00 247.60	18.23	6.37	27.80		13.40	9.52	29.16	999.00	-1.97	999.00	-1.45	0.00
20 1 1 12 245.30	21.28 4.03		999.00 240.50	20.66	4.00	29.67		16.30	8.20	31.29	999.00	-2.04	999.00	-1.60	0.00
20 1 1 13 240.90	23.75 5.89		999.00 235.30	22.43	7.14	31.17	232.20	16.41	10.52	32.90	999.00	-2.18	999.00	-1.80	0.00
20 1 1 14 241.20	22.58 3.25		999.00 235.80	21.69	3.91	32.02		15.80	8.35	33.74	999.00	-1.98	999.00	-1.65	0.00
20 1 1 15 235.90	22.70 4.21		999.00 230.50	21.97	4.32	34.03		15.66	8.81	35.58	999.00	-1.93	999.00	-1.44	0.00
20 1 1 16 234.50	21.30 4.94		999.00 229.20	20.28	5.00	35.57		15.06	8.84	36.91	999.00	-1.72	999.00	-1.28	0.00
20 1 1 10 234.30			999.00 216.80			36.94			11.09	37.86		-1.72			0.00
				14.17	3.51			7.48			999.00		999.00	-0.62	
20 1 1 18 212.50	17.89 2.24		999.00 204.40	15.14	2.86	37.35		6.13	8.01	36.98	999.00	0.94	999.00	1.00	0.00
20 1 1 19 205.50	21.52 2.48		999.00 196.60	17.87	2.98	37.17		7.28	8.82	35.91	999.00		999.00	1.15	0.00
20 1 1 20 200.90	22.75 3.13			18.80	3.40	37.27		7.81	9.25	36.12	999.00	1.44	999.00	1.22	0.00
20 1 1 21 205.60	24.79 4.06			21.09	4.54	37.46		9.78	11.82	36.71	999.00	0.42	999.00	0.41	0.00
20 1 1 22 999.00	26.28 3.60		999.00 204.10	22.96	4.01	37.90		11.03	12.23			-0.14	999.00	0.00	0.00
20 1 1 23 212.60	26.93 3.95		999.00 205.80	23.49	4.52	37.71		10.66	11.96	37.71	999.00	-0.14	999.00	0.01	0.00
20 1 1 24 217.20	24.53 3.34		999.00 210.70	21.37	4.30	37.67		10.07	12.48	37.59	999.00	-0.06	999.00	0.11	0.00
20 1 2 1 213.70	26.28 3.92	2 37.56	999.00 206.60	22.65	4.44	37.62	202.40	10.99	11.62	37.33	999.00	0.27	999.00	0.28	0.00
20 1 2 2 210.70	29.41 3.15	37.42	999.00 203.70	25.74	3.93	37.41	202.50	12.61	12.15	37.22	999.00	0.13	999.00	0.12	0.00
20 1 2 3 210.70	27.02 2.86	36.99	999.00 205.00	23.53	3.88	36.97	204.60	11.69	11.63	36.94	999.00	-0.05	999.00	-0.01	0.00
20 1 2 4 208.50	26.03 3.52	2 36.85	999.00 202.40	22.31	4.63	36.93	202.70	10.34	12.90	36.90	999.00	-0.12	999.00	-0.03	0.00
20 1 2 5 205.60	27.54 3.21	1 36.96	999.00 198.30	23.91	4.09	36.92	196.20	11.67	11.43	36.87	999.00	0.07	999.00	0.06	0.00
20 1 2 6 208.70	26.62 3.44	4 37.25	999.00 201.70	23.24	4.50	37.28	201.40	11.22	11.53	37.31	999.00	0.10	999.00	0.09	0.00
20 1 2 7 207.40	22.77 3.92	2 37.25	999.00 201.10	19.73	4.49	37.28	199.70	8.87	11.92	37.31	999.00	-0.37	999.00	-0.23	0.00
20 1 2 8 209.40	22.31 3.82		999.00 202.30	19.17	4.94	37.63		9.68	11.79	37.98	999.00	-0.55	999.00	-0.36	0.00
20 1 2 9 207.60	23.48 3.56		999.00 200.60	20.68	4.64	37.67		10.37	11.60	37.99	999.00	-0.50	999.00	-0.34	0.00
20 1 2 10 207.80	25.26 4.2		999.00 200.80	22.08	5.01	38.56		10.51	11.95	38.88	999.00	-0.52	999.00	-0.34	0.00
20 1 2 11 211.60	26.37 4.02		999.00 205.20	23.47	4.90	39.71		11.98	12.70	40.28	999.00	-1.08	999.00	-0.74	0.00
20 1 2 12 215.30	25.65 5.21		999.00 209.80	23.83	5.43	41.65		14.71	11.68	43.02	999.00	-2.20	999.00	-1.73	0.00
20 1 2 13 215.80	22.20 6.45		999.00 210.00	20.58	6.97	43.74		13.56	12.48	45.64	999.00	-2.34	999.00	-1.91	0.00
20 1 2 13 213.00	27.75 4.91		999.00 228.50	26.30	5.72		226.30	18.95	8.91	47.92	999.00	-1.96	999.00	-1.58	0.00
			999.00 230.70	26.86	4.70	46.27		18.75	8.55	47.92		-1.33	999.00	-0.87	0.00
											999.00				
20 1 2 16 231.20	23.30 4.55		999.00 225.30	21.80	5.44	47.96		13.41	9.52	49.06	999.00	-1.29	999.00	-0.83	0.00
20 1 2 17 221.80	23.85 3.42		999.00 215.10	21.72	4.25		210.60	11.64	10.49	48.69	999.00	-0.68	999.00	-0.29	0.00
20 1 2 18 215.70	18.76 3.46		999.00 208.10	16.55	4.30		202.90	7.19	12.51	47.80	999.00	-0.42	999.00	-0.10	0.00
20 1 2 19 220.20	19.21 2.77		999.00 211.70	16.55	3.51	46.64		7.36	10.43		999.00		999.00	0.10	0.00
20 1 2 20 220.60	18.92 3.55			16.04	3.96	46.11			10.17				999.00	0.33	0.00
20 1 2 21 217.80	19.01 3.10		999.00 209.30	16.10	3.79	45.76			12.21		999.00		999.00	0.14	0.00
20 1 2 22 212.70	19.90 2.31		999.00 203.70	16.97	2.98	45.20		7.22	11.92		999.00		999.00	0.36	0.00
20 1 2 23 214.50	21.01 3.32		999.00 206.50	18.04	3.47	44.90	201.10	8.04	11.50	44.72	999.00	0.09	999.00	0.15	0.00
20 1 2 24 213.30	20.11 2.67	7 44.83	999.00 203.90	16.84	3.35	44.87	199.10	7.06	10.69	44.66	999.00	0.10	999.00	0.14	0.00
20 1 3 1 215.30	19.08 2.24	44.79	999.00 205.20	16.51	2.80	44.74		6.70	11.89	44.46	999.00	0.42	999.00	0.38	0.00
20 1 3 2 227.10	16.33 2.35	5 44.79	999.00 215.70	13.39	2.70	44.74	203.10	4.87	11.95	44.46	999.00	0.44	999.00	0.41	0.00
20 1 3 3 232.80	17.94 2.96		999.00 222.30	14.85	3.89	44.98		6.13	12.00	44.69	999.00		999.00	0.22	0.00
20 1 3 4 235.20	13.06 4.09		999.00 224.10	11.02	4.90	45.09		3.99	11.69	45.01	999.00	0.01	999.00	0.30	0.00

20 1 3 5 247.80	10.05 0.40	44 75 00	20 00 226 4	10 00	2 21	45 01	214 00	4 11	7 74	44 50	000 00	0 00	000 00	0 50	0 00
	12.95 2.40 11.04 2.14		99.00 236.4 99.00 231.5		2.21		214.80 217.30	4.11 3.96	7.74 7.60	44.52	999.00	0.29	999.00	0.52	0.00
20 1 3 6 246.20 20 1 3 7 249.00	11.58 1.84		99.00 231.5 99.00 234.6		2.03		208.00	4.22	10.43	44.32	999.00	0.10	999.00 999.00	0.37 0.34	0.00
20 1 3 7 249.00	14.34 2.85		99.00 234.0 99.00 234.2		4.08		217.60	4.22	11.59	43.49	999.00	0.19	999.00	0.54	0.02
20 1 3 9 246.00	12.62 2.08		99.00 234.2 99.00 234.6		2.45		217.00	4.76	11.67	43.45	999.00	0.13	999.00	0.32	0.02
20 1 3 9 240.00	11.24 3.10		99.00 254.0 99.00 250.6		4.03		213.90	3.79	9.47	43.45	999.00	-0.12	999.00	0.42	0.00
20 1 3 10 200.30	10.31 3.44		99.00 250.0		3.69		236.70	5.00	8.71	43.43	999.00	-0.83	999.00	-0.33	0.00
20 1 3 12 312.90	8.32 10.42		99.00 305.9		9.85		297.10	5.90	13.72	44.75	999.00	-1.93	999.00	-1.19	0.00
20 1 3 13 338.80	8.22 4.53		99.00 332.3		5.83		334.10	5.33	10.52	44.27	999.00	-1.58	999.00	-1.03	0.00
20 1 3 14 347.70	8.12 3.41		99.00 337.5		5.99		336.50	4.95	11.34	43.71	999.00	-1.63	999.00	-1.23	0.00
20 1 3 15 32.29	4.37 14.47		99.00 33.6		13.91	42.39	29.03	4.74	19.11	43.22	999.00	-1.13	999.00	-0.61	0.00
20 1 3 16 40.12	6.40 10.89		99.00 42.5		11.96	42.43	36.25	6.44	7.06	42.87	999.00	-0.82	999.00	-0.38	0.00
20 1 3 17 999.00	999.00 999.00		99.00 999.0		999.00	42.31	999.00	999.00	999.00	42.50	999.00	999.00	999.00	999.00	0.00
20 1 3 18 44.23	4.30 6.68		99.00 35.0		17.66		135.80	1.96	75.60	41.50	999.00	0.21	999.00	0.09	0.00
20 1 3 19 30.08	5.68 14.38		99.00 22.0		16.28	42.28	47.82	4.95	22.73	41.76	999.00	-0.44		0.05	0.00
20 1 3 20 38.14	7.42 14.02		99.00 28.2		16.77	41.39	10.18	5.35	12.63	41.61	999.00		999.00	-0.23	0.00
20 1 3 21 21.80	6.88 13.55		99.00 20.1		12.04	41.62	42.94	5.14	12.71	41.14	999.00	0.15	999.00	0.52	0.00
20 1 3 22 39.19	11.96 5.12		99.00 30.1		7.91	39.95	13.98	7.78	14.37	40.28	999.00	-0.76	999.00	-0.61	0.00
20 1 3 23 32.68	15.35 4.12		99.00 25.3		6.69	38.16	17.69	10.48	14.35	38.24	999.00	-0.15	999.00	0.09	0.01
20 1 3 24 42.30	12.68 2.63	37.15 99	99.00 35.9	10.14	4.94	37.47	33.28	9.12	9.52	37.67	999.00	-0.47	999.00	-0.25	0.02
20 1 4 1 35.54	11.72 5.27	35.84 99	99.00 29.6		6.91	36.12	19.51	8.90	13.18	36.56	999.00	-0.97	999.00	-0.63	0.01
20 1 4 2 19.18	10.58 11.90	35.05 99	99.00 13.6	9.30	11.00	35.48	9.00	7.64	10.90	36.08	999.00	-1.20	999.00	-0.68	0.00
20 1 4 3 45.19	10.91 7.22	34.64 99	99.00 36.9	9.25	8.35	35.19	33.96	7.63	11.88	35.74	999.00	-0.91	999.00	-0.44	0.00
20 1 4 4 15.01	6.73 14.62	34.49 99	99.00 5.7	2 5.52	15.96	34.95	344.20	3.44	22.09	35.28	999.00	-0.61	999.00	-0.11	0.00
20 1 4 5 23.06	6.12 18.29	34.49 99	99.00 13.9	5.24	18.13	34.95	6.65	3.45	27.35	35.28	999.00	-0.86	999.00	-0.37	0.00
20 1 4 6 2.53	8.42 2.60	34.61 99	99.00 354.9	7.38	5.18	35.03	350.10	3.86	11.33	35.36	999.00	-0.68	999.00	-0.31	0.00
20 1 4 7 339.20	9.84 4.55	34.88 99	99.00 325.5	9.44	4.05	35.22	305.10	4.48	10.66	35.42	999.00	-0.62	999.00	-0.32	0.00
20 1 4 8 340.80	7.85 4.44	34.03 99	99.00 330.9	7.80	4.22	34.51	318.30	5.57	8.18	35.32	999.00	-1.29	999.00	-0.85	0.00
20 1 4 9 313.30	13.63 3.34	33.41 99	99.00 307.5	13.03	3.80	33.89	300.60	8.13	11.53	34.86	999.00	-1.55	999.00	-1.03	0.00
20 1 4 10 322.20	13.63 3.36	32.66 99	99.00 315.6	12.91	4.03		311.30	8.30	9.59	34.21	999.00	-1.39	999.00	-0.54	0.00
20 1 4 11 319.10	13.67 4.26	33.25 99	99.00 312.5	13.12	4.86	34.02	305.70	9.15	12.48	34.65	999.00	-1.39	999.00	-0.68	0.00
20 1 4 12 323.50	14.46 4.48		99.00 317.6		4.45		311.70	11.28	9.46	34.71	999.00	-1.97	999.00	-1.24	0.00
20 1 4 13 317.60	15.34 3.27		99.00 312.1		3.67		310.00	9.58	11.83	34.85	999.00	-1.94	999.00	-1.20	0.00
20 1 4 14 324.90	15.73 4.42		99.00 319.2		4.81		313.50	11.31	9.29	34.88	999.00	-1.95	999.00	-1.24	0.00
20 1 4 15 311.70	15.71 4.85		99.00 306.8		5.23		301.10	9.87	11.52	34.88	999.00	-1.95	999.00	-1.22	0.00
20 1 4 16 309.30	13.67 9.11		99.00 302.8		9.21		292.00	8.77	11.82	33.81	999.00	-1.10	999.00	-0.43	0.00
20 1 4 17 319.60	19.25 7.25		99.00 313.1		7.69		307.70	10.81	12.28	32.43	999.00	-0.37	999.00	0.24	0.01
20 1 4 18 323.40	20.72 5.35		99.00 317.3		6.18		314.10	13.20	10.03	32.81	999.00	-0.01	999.00	0.49	0.00
20 1 4 19 332.80	19.38 6.96		99.00 327.7		6.80		323.60	12.01	10.96	32.04	999.00	-0.65	999.00	-0.09	0.00
20 1 4 20 329.60	13.30 5.87		99.00 324.2		6.86		318.60	7.90	11.11	32.23	999.00	-0.42	999.00	0.10	0.00
20 1 4 21 308.10	14.65 6.27		99.00 302.4		6.42		291.50	8.35	10.68	32.71	999.00	-0.59	999.00	-0.11	0.00
20 1 4 22 315.40	23.81 6.51		99.00 309.4		6.09	32.53	305.40	14.11	13.19	32.81	999.00	-0.79	999.00	-0.26	0.00
20 1 4 23 311.90	23.36 5.90		99.00 306.8		5.89		302.10	14.62	12.14		999.00	-1.00	999.00	-0.46	0.00
20 1 4 24 307.40			99.00 301.6		6.31		292.90		12.11			-1.16		-0.63	0.00
20 1 5 1 310.60	22.77 5.31		99.00 305.4		5.25		299.10	14.02	11.22		999.00		999.00	-0.69 -0.70	0.00
20 1 5 2 317.80	24.78 5.27		99.00 312.1		5.54		310.30	16.42	12.33		999.00		999.00	-0.70	0.00
20 1 5 3 314.90	20.99 4.70 17.54 8.40		99.00 309.3		5.79 8.42		305.90	12.60	12.47		999.00		999.00	-0.75 -0.78	0.00
20 1 5 4 315.80 20 1 5 5 318.20	17.54 8.40 16.00 6.18		99.00 310.3 99.00 312.1		8.42 6.28		305.40 305.60	11.14 9.82	13.95 11.98		999.00 999.00		999.00 999.00	-0.78	0.00
20 1 5 6 289.20	12.09 3.70		99.00 312.1 99.00 281.6		4.05		268.20	6.59	9.25		999.00		999.00	-0.82 -0.79	0.00
20 1 5 6 269.20	13.59 5.05		99.00 201.0		5.28		261.30		10.15		999.00		999.00	-0.79	0.00
20 1 5 7 276.80	11.03 5.62		99.00 270.8 99.00 271.9		6.28		263.60	7.71	10.13		999.00		999.00	-0.90	0.00
20 1 3 0 2/0.00	11.03 3.02	∠೨.⊥೦ ೨೨	JJ.UU Z/1.9	10.03	0.20	29.03	203.00	1.02	10.00	50.00	222.UU	1.42	999.00	∪. Э⊥	0.00

00 1 5 0 060 10	- 14 O O	- 00 10	000 00 056 50	6 84	0 0 0	00.65	0.45 50	4 0 5	11 16	00 50	00000	1 - 1	00000	0 00	0 00
20 1 5 9 263.10	7.14 9.2		999.00 256.50	6.74	9.06		247.70	4.85	11.46		999.00		999.00	-0.99	0.00
20 1 5 10 222.80	10.71 6.6		999.00 215.30	9.63	7.37		210.90	5.67	14.55	30.74	999.00	-1.63	999.00	-1.12	0.00
20 1 5 11 235.50	14.17 6.3		999.00 230.30	13.31	7.03		227.80	9.98	9.00	30.74	999.00	-1.86		-1.29	0.00
20 1 5 12 231.60	16.36 6.0		999.00 224.90	15.48	6.57		221.70	10.80	10.94	31.26	999.00	-1.90	999.00	-1.35	0.00
20 1 5 13 220.40	18.46 5.9		999.00 214.20	17.33	6.04	999.00		11.77	13.68	31.54	999.00	-2.13	999.00	-1.59	0.00
20 1 5 14 202.80	18.99 6.6		999.00 197.20	17.85	8.15		197.60	10.62	14.14	31.98	999.00	-2.12	999.00	-1.47	0.00
20 1 5 15 207.60	19.91 6.2		999.00 202.10	19.03	7.11		201.00	12.18	14.15	33.39	999.00	-1.98	999.00	-1.39	0.00
20 1 5 16 197.80	20.36 5.4	2 32.61	999.00 191.60	18.97	6.16		194.20	11.89	11.37	34.36	999.00	-1.63	999.00	-1.10	0.00
20 1 5 17 195.70	20.39 4.4	4 33.98	999.00 189.80	18.57	5.42	34.43	190.00	10.87	11.66	35.39	999.00	-1.32	999.00	-0.88	0.00
20 1 5 18 215.20	21.22 5.2	2 35.43	999.00 209.90	18.79	5.53	35.86	210.10	10.12	13.11	36.62	999.00	-1.14	999.00	-0.70	0.00
20 1 5 19 210.90	27.24 4.3	5 36.67	999.00 204.80	24.36	4.79	37.08	204.50	12.65	13.03	37.75	999.00	-1.09	999.00	-0.70	0.00
20 1 5 20 225.50	28.12 6.7	4 37.79	999.00 218.90	24.99	7.40	38.19	215.50	14.40	12.90	38.83	999.00	-0.93	999.00	-0.56	0.00
20 1 5 21 246.70	27.15 4.7	9 39.69	999.00 241.40	25.41	5.01	40.12	236.10	17.22	8.04	40.68	999.00	-1.04	999.00	-0.58	0.00
20 1 5 22 274.70	26.75 6.8	4 39.82	999.00 269.20	24.48	7.34	40.27	263.60	16.67	10.38	40.90	999.00	-1.35	999.00	-0.85	0.00
20 1 5 23 272.90	23.48 6.0	7 39.31	999.00 267.10	20.79	7.06	39.76	260.70	14.16	10.22	40.54	999.00	-1.20	999.00	-0.75	0.00
20 1 5 24 269.40	20.83 5.7	3 39.30	999.00 263.40	18.72	6.08	39.75	254.10	12.57	10.73	40.46	999.00	-1.10	999.00	-0.68	0.00
20 1 6 1 271.70	21.61 5.8	8 39.29	999.00 264.70	19.59	6.57	40.22	255.80	12.72	10.07	40.44	999.00	-1.18	999.00	0.73	0.00
20 1 6 2 272.50	15.29 4.8	9 39.20	999.00 266.60	13.49	5.80	40.62	256.50	8.09	9.61	40.38	999.00	-1.19	999.00	-0.72	0.00
20 1 6 3 265.30	26.16 4.9	4 38.22	999.00 258.60	23.78	5.69		249.00	16.77	9.80	39.47	999.00	-1.21	999.00	-0.75	0.00
20 1 6 4 290.60	24.03 5.0		999.00 285.60	22.73	5.97		273.50	16.05	9.50	38.97	999.00	-1.22	999.00	-0.75	0.00
20 1 6 5 288.30	27.72 4.4			25.84	5.43		271.70	16.10	10.72	37.84	999.00	-0.76	999.00	-0.37	0.00
20 1 6 6 287.80	20.08 5.7		999.00 281.70	18.21	6.47		266.90	10.83	11.01	35.73	999.00	-0.48	999.00	-0.15	0.00
20 1 6 7 250.60	21.01 3.7		999.00 244.70	18.73	4.12		237.20	12.21	7.73	34.25	999.00	-1.07	999.00	-0.67	0.00
20 1 6 8 262.30	22.94 4.1		999.00 255.80	20.42	5.42		247.50	12.70	9.05	33.56	999.00	-1.09	999.00	-0.67	0.00
20 1 6 9 267.80	20.09 4.2		999.00 261.50	18.16	4.86		250.00	11.73	7.91	32.72	999.00	-1.16	999.00	-0.76	0.00
20 1 6 10 269.20	16.97 6.8		999.00 263.10	15.88	8.31		253.30	11.79	11.75	33.54	999.00	-1.98	999.00	-1.42	0.00
20 1 6 11 262.40	23.27 3.6		999.00 256.70	21.93	5.36		248.40	15.75	10.43	34.70	999.00	-2.22	999.00	-1.70	0.00
20 1 6 12 251.20	21.83 5.9			21.33	6.79		240.10	15.43	8.73	35.98	999.00	-2.40	999.00	-1.91	0.00
20 1 6 13 240.80	22.60 5.3		999.00 235.60	21.30	5.90		233.10	17.27	8.90	37.33	999.00	-2.27		-1.91	0.00
20 1 6 14 246.20	24.75 4.4		999.00 240.90	24.13	5.04		235.10	18.49	8.28	38.14	999.00	-2.29	999.00	-1.96	0.00
			999.00 244.50		5.38		240.30	17.32	8.85	39.16	999.00	-2.29	999.00	-1.52	0.00
			999.00 247.40	23.78 24.32	6.21		240.30	17.32		40.15	999.00	-2.03	999.00		0.00
							243.10	16.19	9.48				999.00	-1.30	0.00
20 1 6 17 249.70 20 1 6 18 247.50	23.24 3.7 24.61 2.8		999.00 243.50 999.00 241.50	22.10 22.06	4.09 3.32		237.10		7.89	40.04 38.24	999.00 999.00	-1.21 -0.10	999.00	-0.73	0.00
								13.15	7.54					0.14	
20 1 6 19 247.30	26.20 3.0		999.00 240.90	23.49	3.74		232.70	14.71	6.98	36.98	999.00	-0.36	999.00	-0.14	0.00
20 1 6 20 248.60	22.97 3.9		999.00 242.80	20.24	4.35		236.10	12.38	7.97	36.65	999.00	-0.46	999.00	-0.21	0.00
20 1 6 21 246.10	22.53 3.1		999.00 239.60	19.75	3.77		232.10	11.98	7.03	35.57	999.00	-0.45	999.00	-0.21	0.00
20 1 6 22 248.90	20.65 3.6		999.00 242.40	17.76	4.14		232.20	9.87	6.93	34.82	999.00	-0.32	999.00	-0.12	0.00
20 1 6 23 260.00	17.02 4.3		999.00 251.30	14.23	4.63		234.90	7.43	7.42	34.14	999.00	-0.06	999.00	0.04	0.00
20 1 6 24 250.70	14.21 3.2		999.00 239.30	12.23	3.13		217.20	6.05	6.89	33.19	999.00	0.13	999.00	0.23	0.00
20 1 7 1 249.90	15.44 4.0		999.00 236.70	13.17	4.51		215.70	5.28	8.70	32.57	999.00	0.68	999.00	0.71	0.00
20 1 7 2 247.00	16.13 2.4		999.00 232.90	14.46	2.66		217.00	5.80	10.25	31.99	999.00	0.60	999.00	0.43	0.00
20 1 7 3 250.50	16.18 3.1		999.00 238.80	14.13	2.97		225.70	6.69	7.25		999.00		999.00	0.65	0.00
			999.00 235.90		1.73		215.60	5.32			999.00	1.11		0.84	0.00
20 1 7 5 254.50	13.65 3.0		999.00 238.10	11.35	2.25		203.80	4.26	8.30		999.00		999.00	1.08	0.00
20 1 7 6 256.90	14.08 2.9		999.00 242.30	11.40	2.92		216.70	4.63	7.73		999.00		999.00	0.71	0.00
20 1 7 7 271.70	12.55 3.7		999.00 248.80	9.89	3.33		208.90	3.68	9.42		999.00		999.00	0.70	0.00
20 1 7 8 274.90	11.08 5.8		999.00 999.00	9.52	3.38		213.00	3.87	11.00		999.00		999.00	1.01	0.00
20 1 7 9 248.60	9.46 1.7		999.00 230.40	10.24	1.86		196.90	4.00	7.51		999.00		999.00	1.64	0.00
20 1 7 10 266.60	12.09 2.5		999.00 247.50	9.91	5.98		221.90	5.00	12.78		999.00		999.00	-0.24	0.00
20 1 7 11 246.80	8.20 6.9		999.00 239.90	7.59	8.02		232.30	6.71	11.72		999.00		999.00	-1.80	0.00
20 1 7 12 234.30	10.20 7.8	2 34.21	999.00 227.80	9.74	8.48	34.80	225.60	8.39	11.93	36.68	999.00	-2.73	999.00	-2.12	0.00

20 1 7 12	252 20	16 66	1 02	26 67	000 00	246 00	16 27	E 16	27 15	237.90	12 20	0 27	20 01	999.00	1 00	000 00	1 50	0 00
20 1 7 13 20 1 7 14		16.66	4.82	36.67	999.00		16.37	5.16			12.29	8.37		999.00		999.00	-1.52	0.00
		18.93	5.40	37.60	999.00	251.30	18.08	6.00		243.60	13.64	9.53	39.90		-2.30	999.00	-1.93	
20 1 7 15		19.60	5.73	38.97	999.00	244.10	18.97	5.79		240.10	14.05	9.15	40.83	999.00	-1.63	999.00	-1.11	0.00
	254.80	19.72	5.04	39.71	999.00	249.20	18.79	5.96		243.00	12.39	9.26	41.25	999.00	-1.29	999.00	-0.80	0.00
20 1 7 17		18.90	4.17	39.38	999.00	248.10	17.68	4.78		240.30	11.37	7.42	40.42	999.00	-0.87	999.00	-0.42	0.00
20 1 7 18		18.41	5.80	39.05	999.00	254.40	16.32	5.79		246.30	9.64	7.94	39.63	999.00	-0.57	999.00	-0.20	0.00
20 1 7 19		23.77	6.09	38.33	999.00	263.00	21.27	7.17		253.40	13.30	9.61	39.13	999.00	-0.78	999.00	-0.38	0.00
	275.50	19.87	3.16	38.33	999.00	269.40	17.45	4.49		261.00	9.87	8.87	39.13	999.00	-0.44	999.00	-0.14	0.00
	271.60	19.22	3.32	35.66	999.00	264.00	16.15	4.66		250.30	8.63	8.40	35.93	999.00	-0.36	999.00	-0.17	0.00
	254.00	16.67	3.93	34.88	999.00	243.30	14.34	3.42		221.30	6.94	8.28	34.67	999.00	0.40	999.00	0.37	0.00
	244.60	19.34	4.48	34.31	999.00	237.10	16.91	4.97	34.40	230.30	10.65	7.24	34.55	999.00	-0.77	999.00	-0.52	0.00
	257.50	16.72	4.74	34.06	999.00	251.60	14.82	5.26	34.47	244.30	9.98	7.46	35.19	999.00	-1.29	999.00	-0.83	0.00
20 1 8 1		19.35	6.14	33.76	999.00	264.10	16.66	6.75		256.50	10.64	9.60	34.84	999.00	-0.90	999.00	-0.53	0.00
20 1 8 2		22.47	5.44	33.78	999.00	260.10	19.23	5.85	34.17	251.60	11.99	9.58	34.73	999.00	-0.72	999.00	-0.38	0.00
20 1 8 3		21.39	4.55	30.91	999.00	287.60	19.28	5.03	31.25	272.90	11.38	9.53	31.87	999.00	-0.68	999.00	-0.41	0.00
20 1 8 4		22.36	5.34	29.99	999.00	274.70	19.17	6.76		263.30	10.89	9.75	30.77	999.00	-0.46	999.00	-0.17	0.00
20 1 8 5		19.16	5.38	30.43	999.00	266.20	16.73	6.15	30.77	255.90	9.86	9.36	31.02	999.00	-0.88	999.00	-0.49	0.00
20 1 8 6		27.26	5.42	29.90	999.00	279.70	25.09	6.21		269.00	15.54	10.06	30.79	999.00	-0.83	999.00	-0.42	0.00
20 1 8 7		23.09	7.76	29.26	999.00	319.40	22.40	7.67		315.00	15.57	12.36	30.43	999.00	-1.65	999.00	-1.12	0.00
20 1 8 8		28.22	5.37	27.54	999.00	314.70	27.42	5.82	28.08	310.10	18.58	11.33	29.03	999.00	-1.59	999.00	-1.04	0.00
20 1 8 9		26.25	6.08	25.63	999.00	300.70	24.90	6.28	26.17	291.10	17.35	12.64	27.15	999.00	-1.52	999.00	-1.00	0.00
20 1 8 10		25.22	9.45	25.63	999.00	313.00	24.53	9.37	26.17	308.00	17.16	13.34	27.15	999.00	-1.90	999.00	-1.32	0.00
20 1 8 11		21.82	7.39	24.23	999.00	296.30	20.75	6.89		290.60	15.36	11.86	26.25	999.00	-2.07	999.00	-1.52	0.00
	309.70	21.73	5.01	23.24	999.00	304.80	20.88	5.20	23.82	299.90	15.20	12.92	25.46	999.00	-2.47	999.00	-1.85	0.00
	295.10	19.24	8.28	22.83	999.00	289.90	18.67	8.90	23.40	280.70	13.92	13.79	25.25	999.00	-2.41	999.00	-1.83	0.00
20 1 8 14		19.91	6.91	23.55	999.00	292.70	19.49	6.80	24.12	283.40	15.77	10.56	26.30	999.00	-2.44	999.00	-1.89	0.00
	311.70	17.16	11.05	23.20	999.00	306.50	16.99	10.77	23.78	298.20	13.03	16.19	25.97	999.00	-2.80	999.00	-2.20	0.00
	316.50	16.30	6.52	23.16	999.00	311.50	16.15	6.96		307.60	12.21	13.64	25.71	999.00	-2.59	999.00	-2.05	0.00
	310.50	12.18	6.12	23.38	999.00	306.20	11.94	5.83		298.50	8.16	12.98	25.62	999.00	-2.20	999.00	-1.63	0.00
	312.80	11.00	7.84	23.13	999.00	306.60	10.46	8.11	23.67	294.10	5.84	11.58	24.53	999.00	-0.78	999.00	-0.27	0.00
	329.30	8.00	10.96	22.87	999.00	323.50	7.74	11.49		290.90	3.66	14.02	23.30	999.00	-0.32	999.00	0.16	0.00
	331.20	6.28	8.83	22.58	999.00	325.30	5.82	8.63		267.30	3.43	8.63	23.09	999.00	-0.38	999.00	0.10	0.00
	334.30	4.52	9.40	22.51	999.00	326.20	4.40	7.89	23.00	252.20	2.84	8.77	22.91	999.00	-0.39	999.00	0.12	0.00
	325.20	4.39	7.68	22.51	999.00	314.00	4.23	8.05	23.00	237.00	2.56	19.21	22.91	999.00	-0.01	999.00	0.41	0.00
20 1 8 23 20 1 8 24		4.39 4.39	7.68	22.51	999.00	314.00	4.23	8.05 8.05	23.00 23.00	237.00 237.00	2.56	19.21 19.21	22.91	999.00	-0.01	999.00	0.41	0.00
			7.68	22.51	999.00	314.00	4.23				2.56		22.91	999.00	-0.01	999.00	0.41	
20 1 9 1 20 1 9 2		4.39 4.39	7.68 7.68	22.51 22.51	999.00 999.00	314.00 314.00	4.23 4.23	8.05 8.05	23.00	237.00	2.56 2.56	19.21 19.21	22.91 22.91	999.00 999.00	-0.01	999.00 999.00	0.41	0.00
20 1 9 2 20 1 9 3				22.51	999.00	314.00		8.05	23.00	237.00		19.21	22.91	999.00	-0.01	999.00	0.41	0.00
20 1 9 3		4.39 4.39	7.68 7.68	22.51	999.00	314.00	4.23 4.23	8.05	23.00	237.00	2.56 2.56	19.21	22.91	999.00	-0.01 -0.01	999.00	0.41	0.00
20 1 9 4		4.39	7.68	22.51	999.00	314.00	4.23	8.05	23.00	237.00	2.56	19.21	22.91	999.00	-0.01	999.00	0.41	0.00
20 1 9 5		4.39	7.68	22.51	999.00	314.00	4.23	8.05	23.00	237.00	2.56	19.21	22.91	999.00		999.00		0.00
20 1 9 6		4.39	7.68		999.00		4.23	8.05	23.00	237.00	2.56	19.21		999.00	-0.01 -0.01	999.00	0.41	0.00
20 1 9 7			5.70				16.95										-1.00	0.00
20 1 9 9		18.37 18.38			999.00			6.56		146.90 148.30		12.14		999.00	-1.48			0.00
20 1 9 9		18.37	4.63 6.18		999.00 999.00		16.46 17.13	5.45 6.32		152.60		12.96 13.33		999.00 999.00		999.00 999.00	-1.12 -1.43	0.00
20 1 9 10		19.06	7.24		999.00		18.47		26.31			14.34		999.00		999.00	-1.43	0.00
20 1 9 11		18.29	5.93		999.00		17.07	6.43		161.10		14.34		999.00		999.00	-1.04	0.00
20 1 9 12		21.68	4.73		999.00		19.97	5.39		170.70	10.87	13.10		999.00		999.00	-1.23 -1.07	0.00
20 1 9 13		20.74	5.62		999.00		19.97		40.87		11.16	12.24		999.00		999.00	-1.07	0.00
20 1 9 14		19.91	4.20		999.00		17.56		43.70		8.80	13.06		999.00		999.00	-0.68	0.00
20 1 9 15			4.20			173.20				181.20				999.00		999.00		0.00
20 I 9 Ib	103.90	21.31	4.4/	40.40	999.UU	1//.90	Z4.4U	5.77	40.89	101.20	12.10	13.00	40.4/	JJJ.UU	- ⊥.∠4	JJJ.00	-0.80	0.00

00 1 0 1 1 100 10	01 50 4 4		200 00 106 50	10 10	4 05	46.60	100 00	0 51	10.00	46.06	00000	0.06	000 00	0.06	0 00
20 1 9 17 192.10	21.50 4.45		999.00 186.50	19.10	4.85		188.30	9.51	10.32		999.00		999.00	0.26	0.00
20 1 9 18 193.90	19.09 2.02		999.00 185.10	16.08	2.67		177.70	4.90	10.43	45.35	999.00	2.20	999.00	1.98	0.00
20 1 9 19 189.60	26.35 3.68		999.00 182.50	22.55	4.70		182.00	9.73	12.19	45.23	999.00	0.49	999.00	0.53	0.00
20 1 9 20 190.50	28.09 4.99		999.00 183.30	24.57	5.78	48.25		12.46	11.92	48.00	999.00	-0.02	999.00	0.10	0.00
20 1 9 21 204.30	29.91 4.96		999.00 198.40	26.68	5.66		199.10	13.78	12.09	49.48	999.00	-0.10	999.00	0.25	0.00
20 1 9 22 210.10	33.94 5.27		999.00 203.40	30.26	6.25		203.10	15.97	11.83	49.10	999.00	-0.12	999.00	0.19	0.02
20 1 9 23 208.60	29.97 4.06		999.00 202.40	26.32	4.65		202.50	13.05	11.24	47.56	999.00	-0.56	999.00	-0.12	0.05
20 1 9 24 213.60	29.64 4.63	3 47.19 9	999.00 207.90	25.87	5.50	47.55		12.21	13.01	47.56	999.00	-0.27	999.00	-0.11	0.01
20 1 10 1 214.70	25.46 4.12	2 44.65 9	999.00 208.50	22.51	4.47	44.84	206.90	11.09	11.02	45.16	999.00	-0.62	999.00	-0.41	0.00
20 1 10 2 216.00	23.80 5.22	2 43.40 9	999.00 208.50	21.32	6.13	43.71	205.90	10.68	11.94	44.09	999.00	-0.70	999.00	-0.29	0.03
20 1 10 3 215.70	23.94 3.90		999.00 209.20	21.01	4.67	42.46	206.80	9.78	12.45	41.81	999.00	-0.31	999.00	0.72	0.08
20 1 10 4 215.30	23.46 4.24	41.57 9	999.00 208.80	20.19	4.88	42.52	206.50	8.76	11.94	41.88	999.00	-0.24	999.00	0.84	0.04
20 1 10 5 216.10	19.99 4.51	42.17 9	999.00 209.60	17.20	5.34	43.25	206.90	7.51	13.81	42.46	999.00	-0.43	999.00	0.54	0.05
20 1 10 6 216.60	20.52 3.45	5 42.14 9	999.00 210.70	17.73	4.14	43.14	208.90	7.74	11.54	42.50	999.00	-0.24	999.00	0.83	0.02
20 1 10 7 223.60	15.97 8.10	42.64 9	999.00 220.50	13.75	8.96	43.35	216.90	6.35	18.75	42.88	999.00	-0.09	999.00	0.41	0.03
20 1 10 8 228.80	15.21 3.69	9 42.64 9	999.00 226.00	12.75	4.61	43.35	231.40	5.01	11.77	42.88	999.00	0.06	999.00	0.75	0.02
20 1 10 9 215.40	18.96 4.20	43.75 9	999.00 208.30	16.16	4.81	44.33	204.50	7.07	12.31	44.16	999.00	-0.61	999.00	-0.15	0.02
20 1 10 10 206.30	22.75 3.72	44.85 9	999.00 199.90	20.15	4.40	45.22	198.30	10.27	10.42	45.33	999.00	-0.73	999.00	-0.30	0.00
20 1 10 11 203.20	21.42 3.88		999.00 196.60	18.81	4.31	46.45		10.55	11.31	46.76	999.00	-0.77	999.00	-0.29	0.01
20 1 10 12 203.80	21.22 3.95		999.00 197.80	19.07	4.69	46.71		10.23	11.57	47.08	999.00	-0.93	999.00	-0.45	0.01
20 1 10 13 206.70	20.80 4.02		999.00 201.00	18.41	4.76	46.83		9.70	11.13	47.31	999.00	-0.95	999.00	-0.49	0.00
20 1 10 14 207.50	20.13 3.9		999.00 201.40	17.95	4.89		200.10	9.28	12.66	47.96	999.00	-1.04	999.00	-0.59	0.00
20 1 10 15 205.40	20.16 4.05		999.00 198.60	17.52	4.61		194.70	9.30	10.57	48.50	999.00	-0.69	999.00	-0.31	0.01
20 1 10 16 202.20	19.45 4.32		999.00 194.10	16.81	4.52	48.91		8.69	10.98	49.20	999.00	-0.69	999.00	-0.31	0.02
20 1 10 17 199.00	18.46 3.42		999.00 190.30	15.90	4.25	49.32		7.48	9.45	49.53	999.00	-0.37	999.00	-0.11	0.00
20 1 10 18 193.60	18.68 3.85		999.00 185.30	16.20	4.39		183.80	7.49	11.21	49.92	999.00	-0.20	999.00	-0.06	0.00
20 1 10 10 193.00	16.35 3.89		999.00 185.80	14.15	4.63	50.03		5.83	11.69	50.02	999.00	-0.24	999.00	0.03	0.00
20 1 10 10 193.30	13.46 3.28		999.00 184.20	11.02	3.73	50.03		3.92	12.20	50.02	999.00	-0.10	999.00	0.10	0.00
20 1 10 20 192.10	17.74 3.26		999.00 174.20	14.37	3.95	49.92		4.97	10.37	49.55	999.00		999.00	0.55	0.00
20 1 10 21 100.10	22.17 4.40		999.00 178.00	18.54	5.20	51.09		8.29	11.46	50.81	999.00	-0.17	999.00	0.01	0.04
	24.95 3.88		999.00 183.20		4.96		180.20	9.52	12.38	51.89	999.00	0.23	999.00	0.01	0.04
20 1 10 23 188.60 20 1 10 24 195.90			999.00 181.20	21.52 22.56	5.04		189.70	11.52	10.05	52.69	999.00		999.00		0.02
												0.14	999.00	-0.07	0.00
20 1 11 1 190.30 20 1 11 2 197.20	27.36 4.27 29.64 5.88		999.00 183.70 999.00 190.80	24.33 26.55	5.04 6.29	52.64	184.40	11.81	11.04	52.67 52.79	999.00	0.46	999.00	-0.14	0.00
								14.68	11.35		999.00	0.67		-0.15	
20 1 11 3 186.30	26.02 4.56		999.00 180.60	23.42	5.43	52.64		11.40	12.90	52.79	999.00	0.34	999.00	0.48	0.00
20 1 11 4 183.30	29.01 4.5		999.00 176.60	25.67	5.30		176.50	11.87	12.71	53.66	999.00	1.48	999.00	1.03	0.00
20 1 11 5 194.00	33.96 5.67		999.00 188.00	30.15	6.13	58.18		17.01	12.49	56.98	999.00	-0.08	999.00	0.14	0.00
20 1 11 6 195.20	33.03 4.80		999.00 188.90	30.14	4.49	59.51		16.71	10.90	59.52	999.00	-0.14	999.00	0.09	0.00
20 1 11 7 199.10	35.64 5.38		999.00 192.80	32.57	5.91	59.99		18.86	12.65	59.91	999.00	-0.36	999.00	-0.04	0.00
20 1 11 8 199.10	38.54 4.95		999.00 193.10	35.17	6.02		195.70	21.08	12.15	60.97	999.00	-0.79	999.00	-0.45	0.00
20 1 11 9 193.50	36.48 5.24		999.00 187.20	33.36	5.83		189.70	19.02	11.44	60.29	999.00	-0.51	999.00	-0.17	0.00
20 1 11 10 197.60	37.09 5.01		999.00 191.40	33.97	5.74		195.00	20.00	12.47	60.29	999.00	-0.50	999.00	-0.17	0.00
20 1 11 11 207.10	31.77 5.95		999.00 202.20	28.44	7.18		205.90	15.00	13.61		999.00		999.00	1.23	0.00
	15.60 16.99				16.33	60.80					999.00	1.82		2.30	0.00
20 1 11 13 50.80	25.54 7.15			22.58	8.92	41.92	49.56	18.03	11.03		999.00		999.00	-1.07	0.00
20 1 11 14 21.99	23.53 10.3			20.16	10.74	41.92	11.02	18.74	11.84		999.00		999.00	-1.03	0.24
20 1 11 15 26.70	19.81 11.44			16.28	12.31	35.03	25.95	14.85	15.94		999.00		999.00	-1.10	0.03
20 1 11 16 33.51	20.03 4.32			15.30	5.86	34.61	31.06	13.05	11.29		999.00		999.00	-1.04	0.00
20 1 11 17 64.88	11.24 12.83			9.62	14.36	34.87	62.13	7.46	18.97		999.00		999.00	-1.09	0.00
20 1 11 18 54.16	13.27 9.21			11.23	10.05	34.98	55.81	8.48	16.55		999.00		999.00	-1.02	0.00
20 1 11 19 30.33	15.51 10.04			12.25	10.87	34.98	28.21	10.12	12.92		999.00		999.00	-0.94	0.00
20 1 11 20 64.05	17.72 5.77	34.47 9	999.00 59.61	15.68	6.56	34.96	63.82	9.73	12.64	35.91	999.00	-1.45	999.00	-0.95	0.00

	1 11 21	49.60	18.42	6.35		999.00	45.81	16.33	7.35	34.58	46.59	13.58	8.53		999.00		999.00	-1.02	0.00
20	1 11 22	45.85	17.73	3.97	33.97	999.00	41.04	15.46	5.92	34.48	46.65	13.64	8.79	35.46	999.00	-1.49	999.00	-0.97	0.00
20	1 11 23	31.24	21.93	6.11	33.77	999.00	27.18	17.17	7.05	34.28	31.61	14.11	11.35	35.31	999.00	-1.44	999.00	-0.98	0.00
20	1 11 24	5.52	22.99	7.69	33.39	999.00	359.30	20.59	8.47	33.89	356.00	16.11	13.36	34.87	999.00	-1.60	999.00	-1.07	0.00
20	1 12 1	352.90	22.26	4.71	32.55	999.00	347.60	21.01	5.14	33.09	348.30	16.10	8.90	34.15	999.00	-1.59	999.00	-1.05	0.00
20	1 12 2	306.90	23.91	7.69	32.20	999.00	300.30	22.77	7.84	32.73	289.50	15.87	12.79	33.78	999.00	-1.53	999.00	-1.03	0.00
	1 12 3		19.21	5.02	32.20	999.00	284.40	17.84	4.89	32.73	276.60	10.95	8.72	33.78	999.00	-0.73	999.00	-0.23	0.00
	1 12 4		25.31	6.36	29.86	999.00	296.20	23.49	5.78	30.67	287.90	16.15	9.02	31.20	999.00	-1.44	999.00	-0.84	0.00
	1 12 5		24.82	7.01	27.79	999.00	301.30	23.74	7.15	28.44	294.20	15.59	12.81	29.48	999.00	-1.81	999.00	-1.25	0.00
	1 12 6	307.50	16.67	4.54	27.13	999.00	303.10	16.21	4.61		294.20	11.01	9.80	28.95	999.00	-1.83	999.00	-1.42	0.00
	1 12 7		14.37	5.29	26.17	999.00	291.50	13.87	5.53		278.50	9.49	9.83	27.85	999.00	-1.62	999.00	-1.03	0.00
	1 12 8		13.40	5.07	25.60	999.00	283.90	13.06	5.89		274.00	8.37	9.86	27.30	999.00	-1.64	999.00	-0.86	0.00
		301.10	15.40	4.48	25.13	999.00	295.80	14.87	4.07		286.90	11.00	8.87	26.76	999.00		999.00	-1.14	0.00
	1 12 10		10.97	7.71	25.13	999.00	300.40	10.61	6.68		288.50	7.95	11.80	27.37	999.00	-1.57	999.00	-1.83	0.00
	1 12 11		6.56	15.60	26.33	999.00	283.00	6.26	14.40		274.70	5.37	27.40	28.37	999.00	-2.50	999.00	-2.21	0.00
	1 12 12		5.71	21.12	26.45	999.00	219.30	5.54	23.75		229.00	4.62	17.98	28.55	999.00	-2.37	999.00	-1.57	0.00
	1 12 13		8.76	10.24	27.04	999.00	230.60	8.31	13.21		229.60	7.09	15.91	29.36		-2.38	999.00	-1.83	0.00
	1 12 14		8.34	8.18	27.70	999.00	223.00	7.87	10.28	28.36		6.56	16.58	29.97	999.00		999.00	-1.56	0.00
	1 12 15		5.97	9.66	28.20	999.00	238.30	5.91	10.72		242.70	4.90	11.45	30.26	999.00	-2.00	999.00	-1.42	0.00
	1 12 16		5.36	6.86	28.70	999.00	178.90	5.33	6.39		180.10	3.61	17.95	30.62	999.00	-1.94	999.00	-1.25	0.00
	1 12 17		2.42	28.95	28.94	999.00	117.00	2.66	24.94		105.00	2.03	21.53	30.69	999.00	-1.68	999.00	-1.14	0.00
20	1 12 18	111.90	6.37	9.41	29.29	999.00	103.80	6.02	7.29	29.85	105.00	4.02	12.75	31.02	999.00	-1.67	999.00	-1.14	0.00
20	1 12 19	75.20	8.61	15.11	29.56	999.00	67.63	8.69	13.10	30.11	68.67	6.70	13.58	31.30	999.00	-1.72	999.00	-1.16	0.00
20	1 12 20	88.20	10.86	5.24	29.44	999.00	81.50	10.77	5.39	30.00	85.80	7.84	12.38	31.18	999.00	-1.77	999.00	-1.21	0.00
20	1 12 21	103.00	15.16	4.24	29.03	999.00	96.80	14.72	4.93	29.59	106.20	8.55	13.55	30.85	999.00	-1.80	999.00	-1.25	0.00
20	1 12 22	95.30	17.10	3.21	29.10	999.00	88.50	16.66	4.17	29.65	93.80	10.44	11.59	30.91	999.00	-1.84	999.00	-1.28	0.00
	1 12 23	97.70	13.51	4.09	29.10	999.00	89.20	13.36	4.65	29.65	91.70	8.88	11.94	30.91	999.00	-1.71	999.00	-1.16	0.00
	1 12 24		16.28	3.80	30.50	999.00	101.10	15.87	4.48		106.10	8.67	13.38	32.11	999.00	-1.56	999.00	-1.02	0.00
	1 13 1		16.27	3.70	30.91	999.00	103.50	15.76	4.45		107.50	8.35	12.72	32.34	999.00	-1.35	999.00	-0.82	0.00
	1 13 2		9.62	5.26	31.39	999.00	125.40	8.99	6.57		133.30	5.30	13.70	32.58	999.00	-1.22	999.00	-0.73	0.00
	1 13 3		10.93	3.52	31.60	999.00	141.00	9.77	5.01		145.10	5.78	12.74	32.91	999.00	-1.26	999.00	-0.79	0.00
	1 13 4		10.53	1.79	31.84	999.00	159.90	8.87	2.58		158.60	4.37	12.24	32.97	999.00	-0.99	999.00	-0.77	0.00
	1 13 5		11.35	3.24	33.07	999.00	168.20	8.30	4.63		169.20	3.41	12.79	33.65	999.00	-0.69	999.00	-0.47	0.00
		209.00	9.76	5.35	33.67	999.00	205.70	6.97	4.46		223.20	3.39	11.66	34.09	999.00	0.03	999.00	-0.13	0.00
	1 13 7		14.85		35.43	999.00	210.00		2.11		190.00		16.19		999.00	1.79	999.00	1.31	0.00
				1.89				11.17				3.44		34.22					
	1 13 8		17.57	2.91	36.52	999.00	234.20	14.36	3.83		211.70	4.71	12.05	34.88	999.00	1.44	999.00	1.36	0.00
	1 13 9		15.51	3.91	36.71	999.00	251.40	12.73	4.09		246.00	5.98	8.26	36.28	999.00	0.16	999.00	0.29	0.00
	1 13 10		13.20	4.51	36.79	999.00	250.90	11.74	5.05		243.90	6.69	9.74	37.11	999.00	-0.80	999.00	-0.42	0.00
	1 13 11		15.81	5.15	36.63	999.00	261.40	14.57	6.65		254.00	9.60	10.70	37.69	999.00	-1.15	999.00	-0.63	0.00
	1 13 12		17.33	5.18	36.43	999.00	255.00	15.57	6.92		247.70	10.30	10.24	37.88	999.00	-1.68	999.00	-1.02	0.00
	1 13 13		15.36	5.12	36.82	999.00	241.70	14.52	5.80	37.47	236.30	11.15	9.13	38.58	999.00	-1.78	999.00	-1.14	0.00
	1 13 14		13.05	7.47	36.75	999.00	275.60	12.54	7.05	37.40	268.70	9.48	10.28	38.53	999.00	-1.78	999.00	-1.13	0.00
	1 13 15		13.97	6.66	36.44	999.00		13.00	7.36		257.00	9.91	10.15		999.00		999.00	-1.26	0.00
20	1 13 16	269.70	11.68	8.22	36.52	999.00	264.70	11.05	8.55	37.40	257.70	7.94	13.39	38.64	999.00	-1.89	999.00	-1.19	0.00
	1 13 17		7.34	6.68	36.45	999.00	266.40	6.74	6.63	37.02	254.00	4.68	9.75	38.13	999.00		999.00	-1.10	0.00
20	1 13 18	247.60	5.95	6.34	36.40	999.00	240.40	5.57	6.73	36.92	227.80	3.71	12.86	37.88	999.00	-1.42	999.00	-0.90	0.00
	1 13 19		5.36	11.43	36.42	999.00	278.90	4.94	11.16		271.40	2.74	17.75		999.00		999.00	-0.76	0.00
	1 13 20		2.67	13.05	36.25	999.00		2.46	10.56		173.00	1.40	11.13		999.00		999.00	-0.79	0.00
	1 13 21		4.49	12.05	35.95	999.00		3.74	16.78		118.80	2.15	22.38		999.00		999.00	-0.54	0.00
	1 13 22		3.99	14.52	35.92	999.00		3.56	14.31		175.50	2.21	13.66		999.00		999.00	-1.00	0.00
	1 13 23		5.58	10.29		999.00		5.08	10.42		147.80	2.85	13.42		999.00		999.00	-0.87	0.00
	1 13 24		6.13	11.62		999.00		5.87	10.26		132.30	3.47	14.92		999.00		999.00	-0.77	0.00
20	1 10 44	101.40	0.10	11.02	55.74	222.00	120.00	5.07	10.20	50.25	102.00	J.4/	17.94	51.01	222.00	⊥•∠/	222.00	0.11	0.00

20 1 14 1 111.10		2.04 35.69		12.98	2.58		102.90	5.73	10.73		999.00		999.00	-0.10	0.00
20 1 14 2 99.90	17.88	1.48 35.40		15.79	3.32	35.45	96.10	6.85	11.84	35.40	999.00	0.02	999.00	-0.12	0.00
20 1 14 3 126.60	17.31	3.65 34.49	999.00 120.70	15.44	4.50	34.69	126.90	7.29	11.68	35.06	999.00	-1.00	999.00	-0.54	0.00
20 1 14 4 129.00	18.88	2.92 34.05	999.00 122.30	17.07	3.50	34.53	126.80	8.44	11.96	35.21	999.00	-1.10	999.00	-0.62	0.00
20 1 14 5 118.90	20.25	3.38 34.23	999.00 111.20	18.52	4.02	34.66	115.70	9.36	13.02	35.24	999.00	-1.04	999.00	-0.61	0.00
20 1 14 6 110.30	16.30	4.37 33.92	999.00 101.80	14.91	4.99	34.39	103.90	7.07	12.56	34.97	999.00	-1.01	999.00	-0.55	0.00
20 1 14 7 110.50		3.04 33.47		13.82	3.98		107.40	6.33	12.69	34.43	999.00	-0.91	999.00	-0.45	0.00
20 1 14 8 133.90		3.04 33.37		11.86	3.84		133.70	6.68	11.68	34.65	999.00	-1.40	999.00	-0.93	0.00
20 1 14 9 165.20		4.09 33.60		10.72	5.93		159.00	4.25	13.73	34.43	999.00	-0.34	999.00	-0.38	0.00
20 1 14 10 209.60		8.29 33.60		9.00	9.54		202.20	4.70	18.29	34.43	999.00	-1.08	999.00	-0.83	0.00
				11.32	5.59		234.40	7.20	9.06	36.64			999.00		0.00
											999.00	-1.40		-1.18	
20 1 14 12 259.80		6.28 37.26		15.30	7.13		246.40	11.41	11.44	38.97	999.00	-2.16	999.00	-1.65	0.00
20 1 14 13 262.60		5.06 38.98		16.72	7.13		251.20	11.95	11.49	41.40	999.00	-2.31	999.00	-1.73	0.00
20 1 14 14 264.00		7.20 40.39		22.07	7.17		254.30	15.84	11.56	42.36	999.00	-2.04	999.00	-1.48	0.00
20 1 14 15 261.30	18.99	6.36 40.33		17.91	6.96		248.60	12.89	9.70	42.30	999.00	-2.06	999.00	-1.49	0.00
20 1 14 16 247.60	21.66	4.41 40.47	999.00 242.30	20.50	4.85	41.02	237.60	14.24	7.95	42.30	999.00	-1.58	999.00	-1.04	0.00
20 1 14 17 261.90	19.68	5.34 40.41	999.00 256.50	17.98	5.62	40.94	248.50	12.05	9.97	42.00	999.00	-1.60	999.00	-1.06	0.00
20 1 14 18 258.60	22.11	4.55 40.10	999.00 253.40	20.26	5.55	40.61	249.20	12.86	9.92	41.52	999.00	-1.46	999.00	-0.95	0.00
20 1 14 19 270.00	21.14	7.36 39.57	999.00 265.10	19.03	8.24	40.09	257.50	12.84	11.77	41.00	999.00	-1.39	999.00	-0.88	0.00
20 1 14 20 260.70	19.50	3.76 38.57	999.00 255.30	17.54	4.70	39.03	250.20	10.73	8.28	39.71	999.00	-0.88	999.00	-0.48	0.00
20 1 14 21 263.90	14.47	4.64 38.44	999.00 260.10	11.81	5.35	38.77	255.30	6.32	9.95	39.20	999.00	-0.73	999.00	-0.46	0.00
20 1 14 22 253.30	12.43	3.97 38.45	999.00 247.50	10.04	4.04		242.00	4.82	5.70	38.99	999.00	-0.23	999.00	0.00	0.00
20 1 14 23 271.90		4.78 38.56		13.80	6.02		253.20	7.31	9.08	38.77	999.00	-0.71	999.00	-0.42	0.00
20 1 14 24 274.90		1.97 37.61		13.33	2.65		251.10	6.36	6.73	38.28	999.00	-0.04	999.00	0.11	0.00
20 1 15 1 274.90		1.88 37.01		12.67	1.99		236.70	5.21	4.97	36.71	999.00	0.46	999.00	0.55	0.00
20 1 15 2 300.10		2.72 36.54		10.44	3.31		228.80	3.28	9.72	35.64	999.00	1.29	999.00	1.00	0.00
20 1 15 3 340.30		2.03 36.54		12.28	4.00		326.50	2.89	29.42	35.64	999.00	1.61	999.00	1.44	0.00
20 1 15 4 340.30		2.03 36.54		12.28	4.00		326.50	2.89	29.42	35.64	999.00	1.61	999.00	1.44	0.00
20 1 15 4 340.30		2.03 36.54		12.28	4.00		326.50	2.89	29.42	35.64	999.00		999.00	1.44	0.00
20 1 15 5 340.30				12.28			326.50		29.42						0.00
					4.00			2.89		35.64	999.00	1.61	999.00	1.44	
20 1 15 7 340.30		2.03 36.54		12.28	4.00		326.50	2.89	29.42	35.64	999.00		999.00	1.44	0.00
20 1 15 8 340.30		2.03 36.54		12.28	4.00		326.50	2.89	29.42	35.64	999.00		999.00	1.44	0.00
20 1 15 9 340.30		2.03 36.54		12.28	4.00		326.50	2.89	29.42	35.64	999.00	1.61	999.00	1.44	0.00
20 1 15 10 340.30		2.03 36.54		12.28	4.00		326.50	2.89	29.42	35.64	999.00	1.61	999.00	1.44	0.00
20 1 15 11 143.60		5.33 35.69		13.38	5.41		137.70	8.54	11.55	36.14	999.00	-1.94	999.00	-1.37	0.00
20 1 15 12 109.20		1.49 34.89		9.37	12.76		104.00	7.19	18.38	37.41	999.00	-2.70	999.00	-1.99	0.00
20 1 15 13 101.20		5.56 35.12		11.73	6.61	35.82	90.40	9.16	13.65	37.83	999.00	-2.80	999.00	-2.14	0.00
20 1 15 14 96.60	10.98	4.98 35.01	999.00 87.40	10.89	5.96	35.57	85.80	8.22	11.82	37.51	999.00	-2.02	999.00	-1.51	0.00
20 1 15 15 90.40	12.87	3.95 34.79	999.00 80.70	11.82	6.67	35.21	81.70	7.65	13.41	36.55	999.00	-1.90	999.00	-1.41	0.00
20 1 15 16 110.90	15.58	3.31 34.85	999.00 102.20	14.28	5.56	35.22	104.30	8.04	13.78	36.55	999.00	-1.63	999.00	-1.34	0.00
20 1 15 17 108.30	12.76	4.55 34.85	999.00 96.70	10.71	5.76	35.22	95.90	6.50	14.04	36.55	999.00	-0.81	999.00	-1.02	0.00
20 1 15 18 115.00	9.02	2.81 36.01	999.00 101.40	8.75	4.98	35.99	101.60	4.88	14.19	36.82	999.00	-0.99	999.00	-0.94	0.01
20 1 15 19 73.50	5.13 1	5.01 35.65	999.00 51.75	4.78	15.06	35.76	38.75	5.40	19.77	36.65	999.00	-1.09	999.00	-0.86	0.02
20 1 15 20 32.57			999.00 17.51	4.72	6.87	35.42			7.02			-1.07		-0.72	0.00
20 1 15 21 338.90			999.00 328.00	8.46	5.28		312.10	5.30	10.78		999.00		999.00	-0.87	0.00
20 1 15 22 291.10			999.00 281.90	7.90	6.43		263.50	5.25	10.32		999.00		999.00	-0.82	0.00
20 1 15 23 280.30			999.00 274.00	16.61	7.13		262.30	10.49	10.88		999.00		999.00	-0.91	0.00
20 1 15 24 300.70			999.00 295.40	23.94	7.13		287.70	16.45	10.74		999.00		999.00	-0.70	0.00
20 1 16 1 303.90			999.00 298.30	22.89	5.18		288.40	16.61	9.65		999.00		999.00	-0.49	0.00
20 1 16 1 303.30			999.00 298.30	27.96	6.34		300.90	18.21	12.30		999.00		999.00	-0.49	0.00
20 1 16 3 311.60			999.00 305.40	23.38	5.97		297.60	15.17	11.48		999.00		999.00	-0.80	0.00
20 1 16 4 300.40	22.08	5.97 36.05	999.00 294.70	19.96	6.30	30.32	283.40	13.39	10.00	31.22	999.00	-1.08	999.00	-0.62	0.00

20 1 16 5 296.80			999.00 289.40	16.62	7.73	37.00		9.78	10.75		999.00		999.00	-0.43	0.00
20 1 16 6 278.90		.18 36.36	999.00 272.60	16.88	7.38	36.81 2		10.32	10.12	37.41	999.00			-0.68	0.00
20 1 16 7 285.20	21.87 5	.12 35.39	999.00 279.90	20.09	6.35	35.88 2	269.80	13.24	9.34	36.73	999.00	-1.35	999.00	-0.86	0.00
20 1 16 8 282.00	22.06 6	.11 34.20	999.00 276.40	20.41	7.39	34.68	266.00	13.49	9.89	35.56	999.00	-1.43	999.00	-0.92	0.00
20 1 16 9 300.90	20.89 9	.02 33.08	999.00 295.00	19.48	8.88	33.58	283.10	13.16	11.59	34.48	999.00	-1.36	999.00	-0.84	0.00
20 1 16 10 288.50	20.70 6	.31 32.82	999.00 283.60	19.43	6.87	33.34 2	273.20	12.87	11.01	34.27	999.00	-1.51	999.00	-0.99	0.00
20 1 16 11 290.10		.56 32.49	999.00 285.20	27.32	5.35	33.01 2	276.90	19.78	9.32	34.10	999.00	-1.66	999.00	-1.13	0.00
20 1 16 12 291.50		.08 31.33	999.00 286.80	22.69	7.66	31.87		16.68	11.13	33.09	999.00	-1.82	999.00	-1.27	0.00
20 1 16 13 292.90		.20 30.27	999.00 287.70	27.97	5.80	30.83		20.46	9.88	32.17	999.00		999.00	-1.36	0.00
20 1 16 14 322.60		.06 29.06	999.00 316.30	29.84	5.40	29.64		20.63	9.84	31.00	999.00		999.00	-1.42	0.00
			999.00 314.80		6.22	28.66		18.95	10.79	30.15	999.00		999.00		0.00
				27.14										-1.46	
20 1 16 16 321.30		.67 27.64	999.00 315.50	24.95	6.16	28.24		17.34	12.15	29.67	999.00	-1.94	999.00	-1.36	0.00
20 1 16 17 327.80		.84 26.57		24.08	5.96	27.16		16.32	11.07	28.60	999.00	-1.98	999.00	-1.39	0.00
20 1 16 18 325.40		.54 25.18	999.00 320.00	25.38	6.07		316.00	17.90	11.24	27.01	999.00		999.00	-1.24	0.00
20 1 16 19 318.80		.78 24.33	999.00 312.40	23.06	6.00	24.91		15.84	12.82	26.14	999.00		999.00	-1.22	0.00
20 1 16 20 319.70	23.42 5	.43 24.05	999.00 313.50	22.69	6.49	24.62		14.68	12.78	25.85	999.00	-1.81	999.00	-1.23	0.00
20 1 16 21 328.10		.72 24.05	999.00 322.60	19.89	7.88	24.62		13.99	11.20	25.85	999.00	-1.65	999.00	-1.10	0.00
20 1 16 22 339.70	22.12 5	.22 23.85	999.00 334.60	20.91	5.98	24.42	332.80	14.85	10.57	25.62	999.00	-1.77	999.00	-1.21	0.00
20 1 16 23 331.00	19.76 7	.94 23.64	999.00 324.90	19.13	8.13	24.19	320.60	13.97	11.61	25.29	999.00	-1.55	999.00	-1.01	0.00
20 1 16 24 329.60	20.06 5	.21 23.28	999.00 323.10	19.33	6.05	23.82	316.30	13.45	9.34	24.73	999.00	-1.46	999.00	-0.91	0.00
20 1 17 1 342.50	20.41 5	.62 22.79	999.00 336.00	19.72	5.91	23.34	330.90	13.33	10.46	24.36	999.00	-1.61	999.00	-1.06	0.00
20 1 17 2 354.80	14.98 6	.60 22.65	999.00 348.80	14.20	7.80	23.19	347.90	11.14	10.23	24.40	999.00	-1.83	999.00	-1.27	0.00
20 1 17 3 0.16	12.65 8	.36 22.83	999.00 354.40	12.55	6.91	23.38	354.30	10.70	9.80	24.66	999.00	-1.80	999.00	-1.24	0.00
20 1 17 4 355.30	15.35 8	.31 22.99	999.00 349.60	14.58	8.47	23.55	348.20	11.34	12.40	24.84	999.00	-1.88	999.00	-1.32	0.00
20 1 17 5 2.29		.97 22.08	999.00 355.40	12.40	8.76	22.65		10.20	12.06	23.99	999.00	-1.89	999.00	-1.32	0.00
20 1 17 6 31.76		.99 21.35	999.00 28.47	7.60	13.78	21.91	32.67	7.53	17.82	23.24	999.00		999.00	-1.31	0.00
20 1 17 7 70.60		.11 21.58	999.00 63.79	10.56	7.73	22.14	71.90	7.49	10.05	23.33	999.00	-1.62	999.00	-1.09	0.00
20 1 17 8 77.40		.71 21.79	999.00 70.90	8.64	12.28		73.00	6.60	13.77	23.47	999.00	-1.76	999.00	-1.19	0.00
20 1 17 9 83.00		.41 21.83	999.00 75.90	10.67	9.63	22.40	82.70	7.55	18.24	23.60	999.00		999.00	-1.26	0.00
20 1 17 10 91.00		.47 21.83	999.00 84.70	8.90	9.38	22.40	90.40	6.61	14.82	23.60	999.00	-2.01	999.00	-1.41	0.00
20 1 17 10 31.00		.40 22.30	999.00 95.10	8.98	10.38	22.90		6.22	15.79	24.38	999.00		999.00	-1.52	0.00
20 1 17 11 101.10		.43 22.68	999.00 86.20	8.98	8.54		89.70	6.17	13.79	24.33		-2.13	999.00	-1.55	0.00
											999.00				
20 1 17 13 96.20		.81 23.05	999.00 90.20	12.74	8.40		93.80	8.61	14.70	25.32	999.00	-2.32	999.00	-1.75	0.00
20 1 17 14 116.00		.02 23.43	999.00 109.90	11.65	9.10	24.02		7.29	13.79	25.65	999.00	-2.20	999.00	-1.61	0.00
20 1 17 15 98.90		.46 23.74	999.00 92.40	14.20	8.28	24.35		8.95	13.74	26.02	999.00	-2.37	999.00	-1.74	0.00
20 1 17 16 108.50		.83 23.90	999.00 100.70	15.78	5.78	24.50		8.48	15.00	26.21	999.00	-2.13	999.00	-1.56	0.00
20 1 17 17 121.80		.75 24.70	999.00 115.30	14.56	7.63	25.27		8.61	14.19	26.60	999.00		999.00	-1.26	0.00
20 1 17 18 121.90		.36 25.30	999.00 115.10	14.65	8.26	25.86		8.76	16.08	27.03	999.00		999.00	-1.12	0.00
20 1 17 19 136.80		.20 25.97	999.00 131.20	13.06	3.80	26.51		7.40	12.71	27.63	999.00		999.00	-1.12	0.00
20 1 17 20 129.90			999.00 123.70	10.71	6.14	27.08		6.07	13.62	28.18	999.00	-1.61	999.00	-1.06	0.00
20 1 17 21 119.40	16.08 4	.78 27.05	999.00 113.20	15.57	4.70	27.60	119.80	9.37	12.38	28.68	999.00	-1.63	999.00	-1.11	0.00
20 1 17 22 117.20	14.07 5	.00 27.07	999.00 110.50	13.64	5.70	27.61	119.50	8.06	12.78	28.73	999.00	-1.67	999.00	-1.12	0.00
20 1 17 23 116.20	15.51 4	.89 27.19	999.00 109.30	15.18	6.00	27.72		8.21	14.19		999.00	-1.68	999.00	-1.13	0.00
20 1 17 24 118.80	18.02 4	.62 26.36	999.00 111.90	17.45	5.64	26.87	119.70	9.52	13.09	27.98	999.00	-1.49	999.00	-1.02	0.00
20 1 18 1 128.80	18.11 7	.12 24.81	999.00 122.50	16.98	7.93	25.31	132.10	9.88	13.52	26.37	999.00	-1.67	999.00	-1.11	0.03
20 1 18 2 125.00	26.05 4	.64 24.96	999.00 118.30	25.08	4.67	25.52	124.40	14.48	12.36	26.65	999.00	-1.75	999.00	-1.20	0.01
20 1 18 3 128.30	24.80 3	.94 25.42	999.00 121.90	24.22	4.41	25.97		14.54	11.33	27.13	999.00		999.00	-1.18	0.00
20 1 18 4 147.00			999.00 140.80	16.56	6.97	26.77		9.99	12.30		999.00		999.00	-1.13	0.00
20 1 18 5 150.80			999.00 143.10	17.59	6.04	26.44		10.27	11.66		999.00		999.00	-0.93	0.02
20 1 18 6 149.20			999.00 141.80	21.74	6.58	27.69		12.51	11.84		999.00		999.00	-0.92	0.03
20 1 18 7 156.00			999.00 147.80	18.23	6.17			11.48	11.52		999.00		999.00	-0.84	0.05
20 1 18 8 158.60			999.00 151.60	16.83	6.40				13.79		999.00		999.00	-0.38	0.06
20 1 10 0 100.00	11.01	,	555.00 151.00	10.00	0.10	J±•JU .	10,.00	±2•7¤	10.10	51.55	JJJ.00	0.00	222.00	0.50	0.00

20 1 18 9 167.50			999.00 162.80	11.32	5.39	31.70 164.90		13.54	31.99 999.00		-0.06	0.06
20 1 18 10 174.50	11.32 4.	.50 32.11	999.00 169.30	10.32	5.32	32.29 172.40	7.92	11.15	32.20 999.00		-0.13	0.02
20 1 18 11 193.70	21.59 5.	.13 33.46	999.00 187.00	24.28	5.49	32.96 188.90	13.58	10.75	34.05 999.00	-0.96 999.00	-1.66	0.03
20 1 18 12 195.90	32.76 4.	.63 33.93	999.00 189.60	29.95	5.23	34.31 189.90	17.46	10.55	35.25 999.00	-0.90 999.00	-0.81	0.01
20 1 18 13 208.20	34.31 4.	.62 35.63	999.00 202.40	31.31	5.56	35.74 202.40	15.99	12.56	36.31 999.00	-0.53 999.00	-0.38	0.00
20 1 18 14 209.40	32.18 3.	.97 36.60	999.00 203.30	29.45	4.66	36.83 204.00	15.40	13.28	37.05 999.00	-0.69 999.00	-0.26	0.00
20 1 18 15 215.50	31.59 4.	.70 37.07	999.00 208.70	27.86	5.52	37.30 205.40	14.13	12.90	37.38 999.00	-0.04 999.00	0.10	0.00
20 1 18 16 244.20		.16 39.99	999.00 237.40	35.83	5.78	40.25 232.40	25.87	8.35	39.92 999.00		0.20	0.00
20 1 18 17 257.10		.72 39.15	999.00 251.00	32.66	5.94	39.78 245.50	22.20	8.99	39.60 999.00		0.06	0.00
20 1 18 18 256.70		.37 39.15	999.00 251.60	30.62	5.63	39.78 246.60	20.82	8.97	39.60 999.00		-0.58	0.00
20 1 18 19 253.10		.57 35.35	999.00 247.50	31.59	4.80	35.87 242.70	22.18	8.51	36.51 999.00		-0.70	0.00
20 1 18 20 252.60		.31 34.86	999.00 247.30	24.87	5.19	35.36 238.80	17.57	8.12	36.09 999.00		-0.67	0.00
20 1 18 21 253.80		.53 34.30	999.00 248.40	30.43	6.14	34.83 243.10	21.00	9.73	35.57 999.00		-0.81	0.00
20 1 18 22 257.20		.75 32.21	999.00 252.10	32.29	5.83	32.75 243.30	22.39	9.47	33.78 999.00		-1.16	0.00
20 1 18 23 277.20		.92 29.13	999.00 271.10	31.13	6.80	29.69 261.90	21.70	10.85	30.86 999.00		-1.18	0.00
20 1 18 24 268.50		.36 25.94	999.00 263.00	31.20	8.20	26.50 257.00	22.52	10.55	27.77 999.00		-1.34	0.00
20 1 19 1 272.60			999.00 266.40	28.71	7.80	26.50 258.90	21.21	10.30	27.77 999.00		-1.32	0.00
20 1 19 2 268.20		.10 19.70	999.00 262.90	27.79	6.57	20.26 255.30	20.13	10.47	21.52 999.00		-1.27	0.00
20 1 19 3 266.50		.18 18.19	999.00 261.00	30.26	5.01	18.77 253.20	21.79	8.93	20.05 999.00		-1.30	0.00
20 1 19 4 264.70		.85 17.42	999.00 259.80	27.01	7.35	17.99 254.20	18.56	11.51	19.27 999.00		-1.30	0.00
20 1 19 5 266.50		.36 16.33	999.00 261.80	30.20	6.11	16.90 254.50	21.18	9.89	18.20 999.00		-1.29	0.00
20 1 19 6 265.60	31.40 5.	.28 15.03	999.00 260.70	29.62	6.14	15.61 253.90	21.05	10.17	16.93 999.00	-1.93 999.00	-1.35	0.00
20 1 19 7 264.60		.27 13.82	999.00 259.50	27.43	6.21	14.39 252.20	19.96	9.63	15.72 999.00		-1.35	0.00
20 1 19 8 264.50	27.17 5.	.93 12.66	999.00 259.10	25.49	6.66	13.24 252.20	17.94	11.39	14.62 999.00	-1.98 999.00	-1.38	0.00
20 1 19 9 260.10	29.20 4.	.95 11.89	999.00 254.40	27.80	5.49	12.48 245.30	20.19	8.93	13.91 999.00	-2.10 999.00	-1.50	0.00
20 1 19 10 264.90	27.19 6.	.44 11.52	999.00 260.00	25.61	7.87	12.10 253.90	19.42	10.08	13.52 999.00	-1.96 999.00	-1.38	0.00
20 1 19 11 267.70	26.70 6.	.05 11.31	999.00 263.50	25.34	7.49	11.87 256.80	17.99	11.14	13.29 999.00	-1.96 999.00	-1.40	0.00
20 1 19 12 261.80	25.85 6.	.18 11.23	999.00 257.90	24.34	6.98	11.80 251.20	17.56	10.12	13.32 999.00	-2.15 999.00	-1.59	0.00
20 1 19 13 266.80	26.99 6.	.03 11.47	999.00 262.40	25.31	6.76	12.05 254.10	18.03	10.81	13.72 999.00	-2.32 999.00	-1.73	0.00
20 1 19 14 263.50	23.94 6.	.41 12.54	999.00 259.80	22.98	7.65	13.11 248.60	17.35	10.54	14.80 999.00	-2.29 999.00	-1.72	0.00
20 1 19 15 265.10	24.08 6.	.36 13.27	999.00 260.60	22.17	8.16	13.84 252.30	16.67	11.67	15.56 999.00	-2.26 999.00	-1.64	0.00
20 1 19 16 263.50		.98 13.78	999.00 259.10	21.00	6.39	14.34 251.90	14.80	10.92	15.91 999.00		-1.59	0.00
20 1 19 17 266.80		.27 14.36	999.00 263.10	19.27	7.11	14.93 255.30	14.15	10.13	16.42 999.00		-1.43	0.00
20 1 19 18 264.90		.13 14.99	999.00 261.30	17.75	6.61	15.57 253.80	12.74	10.25	16.94 999.00		-1.30	0.00
20 1 19 19 268.50		.05 15.33	999.00 264.00	17.64	6.43	15.89 255.50	13.62	10.56	17.11 999.00		-1.19	0.00
20 1 19 20 280.60		.65 16.00	999.00 273.10	16.91	6.66	16.51 261.20	11.59	10.41	17.68 999.00		-1.07	0.00
20 1 19 21 288.40		.13 16.78	999.00 283.50	15.72	4.76	17.29 272.50	11.08	8.84	18.40 999.00		-1.09	0.00
20 1 19 22 301.30		.79 18.10	999.00 290.00	14.04	6.47	18.43 269.70	9.09	11.39	19.12 999.00		-0.61	0.00
20 1 19 23 320.40	13.25 20.		999.00 307.40	12.24	24.11	18.71 276.20	6.57	18.45	19.01 999.00		0.15	0.00
20 1 19 24 302.20	12.54 10.		999.00 288.30	12.24	10.16	18.15 254.50	8.77	9.47	18.40 999.00		0.13	0.00
20 1 19 24 302.20		.74 18.08	999.00 289.60	14.04	2.57	18.15 270.40		7.87	18.40 999.00		-0.17	0.00
		.36 16.33	999.00 293.30	14.09	3.55	16.33 268.00		7.90	16.39 999.00		0.11	0.00
20 1 20 3 322.10			999.00 311.80	14.33	4.18	17.95 269.10	6.66	8.20	16.55 999.00		2.14	0.00
				14.88		19.54 313.60			18.19 999.00		-0.45	0.00
20 1 20 5 343.30			999.00 337.90	15.66	6.83	20.36 331.20		11.79			-0.81	0.00
20 1 20 6 339.80			999.00 334.80	16.35	4.36			9.66	21.24 999.00		-0.70	0.00
20 1 20 7 344.00			999.00 338.00	13.94	4.97	20.39 329.30		11.45	21.17 999.00		-0.82	0.00
20 1 20 8 337.90			999.00 331.80	11.98	4.84	19.95 318.30		9.40	20.73 999.00		-0.70	0.00
20 1 20 9 334.10			999.00 327.10	12.72	4.11	19.46 315.50		9.33	20.19 999.00		-0.87	0.00
20 1 20 10 335.10			999.00 330.00	10.19	6.78	19.18 324.10		11.94	20.44 999.00		-1.48	0.00
20 1 20 11 335.90			999.00 331.10	10.18		18.76 327.30		13.52	20.28 999.00		-1.53	0.00
20 1 20 12 343.80	8.53 9.	.66 18.19	999.00 338.70	8.12	11.00	18.76 336.60	6.50	15.80	20.32 999.00	-2.16 999.00	-1.59	0.00

00 1	00 10	0.4.66.0	6 00	0 55	10.00	00000	044 40	6 00	11 50	10 55	005 50		10 15	01 50	000 00	0 00	000 00	0 00	0 00
		346.60	6.82	9.77		999.00		6.80	11.56		335.70	5.57	18.15		999.00		999.00	-2.32	0.00
		347.20	5.65	18.70	19.77	999.00	341.00	6.09	16.96		327.90	5.41	20.54	22.66	999.00	-3.16	999.00	-2.66	0.00
		310.60	5.67	17.46	20.30		302.50	5.59	16.70		291.80	4.82	30.83	23.72	999.00	-3.29	999.00	-2.67	0.00
		315.60	7.15	11.60	21.02	999.00	309.60	6.98	13.07		300.30	5.54	23.78	24.63	999.00	-3.63	999.00	-2.98	0.00
		316.30	7.50	8.42	21.78	999.00	312.00	7.67	8.86		305.80	5.78	20.08	25.08	999.00	-3.06	999.00	-2.44	0.00
		298.50	7.11	7.82	22.12	999.00	294.20	6.89	7.35		283.50	5.33	11.30	24.65	999.00	-2.14	999.00	-1.56	0.00
		295.40	12.42	3.92	21.99	999.00	287.40	11.78	4.14		260.30	6.35	7.84	23.13	999.00	-0.74	999.00	-0.29	0.00
		314.10	14.53	4.26	22.00	999.00	304.80	14.22	3.84		279.60	7.56	7.10	22.00	999.00	0.43	999.00	0.79	0.00
		319.10	12.70	6.03	21.94	999.00	308.00	12.59	5.47		273.20	6.86	6.48	21.09	999.00	1.28	999.00	1.56	0.00
		345.00	17.22	4.78	22.04	999.00	340.10	16.53	4.94		333.80	11.11	9.20	22.45	999.00	-1.30	999.00	-0.76	0.00
		354.20	15.31	4.98	22.04	999.00	348.60	14.67	5.52		347.90	10.62	8.90	22.45	999.00	-1.46	999.00	-0.93	0.00
		352.00	11.01	5.76	21.34	999.00	345.60	10.85	6.17		338.40	7.87	10.97	22.70	999.00	-1.26	999.00	-0.72	0.00
		353.90	11.50	6.36	21.59	999.00		11.17	7.37		350.40	8.46	11.54	23.08	999.00	-1.72	999.00	-1.17	0.00
		353.30	9.81	9.30	21.59	999.00	348.50	9.55	9.83	22.13	347.00	7.29	15.55	23.28	999.00	-1.68	999.00	-1.13	0.00
20 1	21 3	338.30	11.66	6.61	21.59	999.00	331.10	11.35	6.50	22.13	323.80	8.01	14.40	23.28	999.00	-1.60	999.00	-1.08	0.00
20 1	21 4	338.70	10.75	9.60	21.78	999.00	333.40	10.37	10.87	22.32	331.70	7.34	18.83	23.39	999.00	-1.66	999.00	-1.12	0.00
		324.80	9.11	5.37	21.75	999.00	317.20	8.93	6.32	22.27	307.70	6.01	12.65	23.30	999.00	-1.57	999.00	-1.03	0.00
20 1	21 6	342.70	8.19	8.34	21.95	999.00	338.80	8.00	10.19	22.49	340.70	5.84	14.64	23.55	999.00	-1.66	999.00	-1.12	0.00
20 1	21 7	296.80	8.38	9.85	21.91	999.00	291.50	8.11	10.28		283.20	5.63	17.12	23.47	999.00	-1.56	999.00	-1.03	0.00
20 1		283.80	9.23	5.06	21.71	999.00	276.70	8.79	5.17	22.21	262.40	5.66	8.84	23.18	999.00	-1.42	999.00	-0.94	0.00
20 1	21 9	278.90	11.09	8.29	21.61	999.00	271.90	10.53	8.97	22.12	261.40	7.42	11.55	23.14	999.00	-1.60	999.00	-1.08	0.00
20 1	21 10	276.00	10.67	5.63	21.31	999.00	271.20	10.39	5.76	21.84	261.40	7.73	10.80	23.02	999.00	-1.80	999.00	-1.26	0.00
20 1	21 11	277.00	10.89	9.89	21.31	999.00	274.20	10.42	11.31	21.84	266.70	8.08	18.57	23.02	999.00	-2.23	999.00	-1.65	0.00
		286.40	9.84	12.80	21.24	999.00	282.50	9.73	13.85		278.10	8.56	18.36	23.60	999.00	-2.29	999.00	-1.72	0.00
20 1	21 13	257.70	9.52	8.04	21.97	999.00	251.30	9.44	8.78	22.51	241.30	7.28	13.70	24.59	999.00	-2.53	999.00	-2.07	0.00
20 1	21 14	273.00	10.52	11.94	26.61	999.00	267.40	10.68	13.13	26.46	999.00	9.02	20.08	25.58	999.00	2.79	999.00	2.31	0.00
		999.00	999.00	999.00	28.64	999.00	999.00	999.00	999.00	28.16	999.00	999.00	999.00	25.85	999.00	999.00	999.00	999.00	0.00
		245.30	11.98	7.01	25.51	999.00	239.50	11.70	7.63		234.70	9.38	11.63	27.87	999.00	-2.35	999.00	-1.87	0.00
		254.30	11.63	5.07	25.86	999.00	250.20	11.34	6.27		243.70	8.40	9.55	27.90	999.00		999.00	-1.21	0.00
		240.40	12.84	2.92	25.97	999.00	234.60	11.95	3.96		227.40	7.48	7.70	27.45	999.00	-1.16	999.00	-0.67	0.00
20 1		233.50	13.74	1.84	25.76	999.00	224.80	12.01	2.23		211.10	4.95	10.45	26.45	999.00	-0.33	999.00	-0.05	0.00
		232.70	14.38	1.86	25.78	999.00	219.00	12.17	2.68		202.70	4.23	10.98	25.67	999.00	0.35	999.00	0.35	0.00
		225.80	16.99	2.46	25.10		213.20	14.48	2.67		202.70	5.80	11.05	24.63	999.00	0.35	999.00	0.25	0.00
		232.40	17.92	2.54	24.24	999.00	220.90	14.53	3.59		209.90	6.11	11.96	23.92	999.00	0.30	999.00	0.14	0.00
		221.90	17.56	2.22	23.45	999.00	210.60	14.93	2.40		198.60	6.58	10.24	23.20	999.00	0.27	999.00	0.18	0.00
		214.80	18.47	2.58	22.86	999.00	203.20	15.09	3.37		195.30	6.90	11.27	22.50	999.00	0.33	999.00	-0.02	0.00
		222.70	19.74	2.32	21.91	999.00	215.40	16.25	3.20		211.00	7.67	10.80	21.99	999.00	-0.17	999.00	-0.21	0.00
	22 2		20.07	2.76	21.36	999.00	216.90	16.45	3.27		210.70	7.51	10.75	21.49	999.00	0.07	999.00	-0.03	0.00
		220.10	18.10	2.61	21.10	999.00		14.87	3.14		201.70	6.43	10.86	21.12	999.00	-0.12	999.00	-0.17	0.00
		222.80	18.41	2.19	20.54	999.00	212.90	14.81	2.81		205.50	6.72	11.71	20.68	999.00	-0.18	999.00	-0.40	0.00
	22 5		17.61	3.15	20.12	999.00	210.40	14.38	3.56		202.50	6.79	10.63	20.50	999.00	-0.29	999.00	-0.28	0.00
20 1		209.90	19.19	2.50	19.92	999.00	202.20	15.39	3.49		199.50	6.38	11.66	20.08	999.00	0.00	999.00	-0.23	0.00
20 1			17.94	3.77		999.00		14.95	4.08		212.00	6.40	11.56		999.00		999.00	-0.23	0.00
		216.20	18.57			999.00		15.35	3.01	19.71		6.94	9.15				999.00	0.10	0.00
		207.60	18.34	3.29		999.00		15.37	4.27	19.56		7.29		19.98			999.00	-0.74	0.00
		207.30	17.70	5.00		999.00		15.72	5.40		200.90	8.94	11.89		999.00		999.00	-1.14	0.00
		216.00	16.90	6.51		999.00		15.56	6.69		209.20	8.72	13.84		999.00		999.00	-1.72	0.00
		219.70	18.86	5.78		999.00		17.84	6.26		215.80	12.41	13.07		999.00		999.00	-2.00	0.00
		225.10	18.29	7.67		999.00		17.44	8.67		219.70	12.59	13.66		999.00		999.00	-1.97	0.00
		212.30	17.26	5.59		999.00		16.41	6.85		206.80	10.50	14.14		999.00		999.00	-1.61	0.00
		206.20	16.62	4.11		999.00		16.13	4.75		200.60	10.10	13.11		999.00		999.00	-1.40	0.00
20 1	22 16	202.00	16.25	4.08	30.69	999.00	197.50	15.20	4.89	31.30	200.50	9.10	12.40	32.52	999.00	-1./1	999.00	-1.11	0.00

	1 22 17		14.44	4.56	31.64	999.00		13.54	4.83		197.10	8.42	9.97		999.00		999.00	-0.96	0.00
	1 22 18		12.27	3.05	31.85	999.00	198.80	10.82	3.63		198.90	4.76	9.90	32.97	999.00	-0.59	999.00	-0.28	0.00
20	1 22 19	195.90	12.83	1.93	31.65	999.00	188.50	10.50	2.35	31.78	171.20	3.42	7.35	31.42	999.00	0.55	999.00	0.60	0.00
20	1 22 20	190.30	14.06	1.39	31.73	999.00	180.20	11.98	1.56	31.72	159.30	4.19	6.42	30.78	999.00	0.93	999.00	0.96	0.00
20	1 22 21	198.10	16.41	1.96	31.41	999.00	192.40	12.95	2.85	31.28	191.80	4.66	6.74	30.30	999.00	1.04	999.00	0.80	0.00
20	1 22 22	198.00	18.03	1.55	31.26	999.00	192.20	14.27	2.34	30.94	184.20	4.66	7.30	29.88	999.00	1.44	999.00	1.11	0.00
20	1 22 23	193.20	17.74	2.26	30.80	999.00	186.80	14.08	2.98	30.50	187.20	4.60	11.97	29.81	999.00	0.89	999.00	0.58	0.00
	1 22 24		16.75	2.29	30.67	999.00		13.41	2.17	30.40	188.70	4.44	7.57	29.41		1.40	999.00	1.13	0.00
	1 23 1		17.05	2.42	31.13	999.00		13.45	2.78		190.80	5.03	9.26	29.92	999.00	0.85	999.00	0.61	0.00
	1 23 2		16.46	2.76	31.75	999.00		13.19	3.83		165.10	4.32	10.95	30.90	999.00	0.96	999.00	0.80	0.00
	1 23 3		15.90	2.17	32.11	999.00	181.60	13.07	3.17		179.00	4.49	12.27	31.47	999.00	0.42	999.00	0.37	0.00
	1 23 4		12.46	2.16	32.09	999.00	200.00	9.99	3.00		195.20	2.99	11.43	31.62	999.00	0.76	999.00	0.75	0.00
	1 23 5		13.74	2.74	32.24	999.00	200.80	10.71	2.99		179.10	2.79	8.67	31.23	999.00	1.26	999.00	1.17	0.00
		211.00	12.41	2.20	32.24	999.00	206.70	9.79	3.32		170.60	1.90	7.19	31.05	999.00	1.04	999.00	1.14	0.00
	1 23 7		999.00	999.00	31.94	999.00	999.00	999.00	999.00		999.00	999.00	999.00	30.90	999.00	999.00	999.00	999.00	0.00
	1 23 8		16.27	0.96	31.94	999.00	188.30	12.63	1.45		172.80	3.70	6.76	30.90	999.00	2.28	999.00	1.60	0.00
	1 23 9		20.52	1.43	34.24	999.00	180.90	16.08	2.10		170.70	5.07	10.57	31.07	999.00	3.60	999.00	2.14	0.00
	1 23 10		19.19	2.07	35.12	999.00	166.80	14.29	3.65		147.50	4.96	13.00	32.16	999.00	3.25	999.00	1.41	0.00
	1 23 11		13.15	3.23	34.41	999.00	186.10	10.61	4.40		188.30	5.48	11.86	33.99	999.00	-1.04	999.00	-0.74	0.00
	1 23 12		10.96	5.00	35.28	999.00	181.90	9.25	6.45		181.70	5.00	14.80	36.61	999.00	-1.54	999.00	-1.00	0.00
	1 23 13		7.71	5.25	36.79	999.00	177.20	7.33	6.46		181.30	4.07	13.78	38.54	999.00	-1.83	999.00	-1.06	0.00
	1 23 14		5.64	7.44	37.82	999.00	208.10	3.93	16.22		212.40	2.40	21.08	39.49	999.00	-1.53	999.00	-1.06	0.00
	1 23 15		3.34	6.97	37.82	999.00	175.30	2.57	7.73	38.45	75.10	3.00	12.26	39.49	999.00	-0.33	999.00	0.38	0.00
	1 23 16		3.27	14.60	38.86	999.00	116.20	3.69	7.10	39.17	88.60	4.63	10.64	37.41		3.01	999.00	3.09	0.00
	1 23 17		8.76	3.47	39.49	999.00	147.70	8.27	3.54	39.74	109.40	2.75	12.93	36.07	999.00	3.32	999.00	3.65	0.00
20	1 23 18	149.10	8.90	6.25	39.78	999.00	138.00	9.16	7.59	40.11	114.90	4.66	11.81	37.16	999.00	2.24	999.00	2.47	0.00
20	1 23 19	156.10	12.19	3.54	39.78	999.00	143.80	11.93	2.29	40.11	122.40	4.60	7.16	37.16	999.00	2.88	999.00	2.88	0.00
20	1 23 20	143.60	13.19	2.83	41.00	999.00	126.50	11.49	2.52	40.73	112.60	4.07	7.68	37.50	999.00	3.40	999.00	3.03	0.00
20	1 23 21	146.20	16.67	2.02	41.16	999.00	130.10	15.18	1.79	40.67	109.50	4.82	7.67	36.57	999.00	5.44	999.00	4.72	0.00
20	1 23 22	140.80	16.18	2.47	41.36	999.00	124.00	14.62	1.40	40.24	109.40	5.03	10.56	36.54	999.00	4.32	999.00	3.05	0.00
20	1 23 23	150.10	17.21	2.52	42.34	999.00	135.60	15.02	2.92	39.35	128.80	5.33	8.57	35.88	999.00	6.79	999.00	3.56	0.00
20	1 23 24	153.20	19.30	1.72	39.54	999.00	145.20	14.43	3.37	38.40	140.20	4.48	9.53	35.93	999.00	2.00	999.00	1.09	0.00
	1 24 1		19.00	2.27	39.92	999.00	135.40	14.56	2.97		102.00	4.34	9.45	36.04	999.00	4.91	999.00	3.49	0.00
	1 24 2		18.88	3.04	40.34	999.00	108.20	16.96	3.32	39.22	93.00	7.33	10.06	35.04	999.00	4.61	999.00	4.05	0.00
	1 24 3		23.11	2.49	39.88	999.00	91.10	23.23	2.40	38.78	80.60	11.22	8.90	34.21	999.00	6.42	999.00	5.00	0.00
	1 24 4	93.90	27.21	3.27	39.77	999.00	83.50	22.22	5.58	38.06	88.50	9.19	16.16	34.04	999.00	4.58	999.00	2.33	0.00
	1 24 5	98.00	29.79	1.96	39.83	999.00	86.50	27.84	3.43	37.35	92.20	13.19	11.57	34.88	999.00	4.94	999.00	2.38	0.00
		104.10	25.94	1.46	37.55	999.00	91.30	23.25	2.65	35.99	94.70	10.88	10.88	34.63	999.00	3.97	999.00	1.74	0.00
	1 24 7		22.19	3.27	38.45	999.00	97.60	21.33	3.43	36.28	98.90	8.50	13.64	33.83	999.00	4.63	999.00	2.38	0.02
	1 24 8		17.40	2.20	37.26	999.00	114.00	17.16	2.91	36.50	104.40	7.24	11.63	33.87	999.00	2.93	999.00	2.55	0.02
	1 24 9		16.95	1.74	37.22	999.00	105.30	16.69	2.02	36.83	94.70	7.69	11.88	34.22	999.00	3.32	999.00	3.07	0.00
	1 24 10		17.09	1.34	38.30	999.00	110.80	16.86		37.95	97.10	6.98	11.21	34.69	999.00	3.59	999.00	3.23	0.00
									2.43										
	1 24 11		17.81	1.66	39.09	999.00		16.97	2.28	38.64	94.90	7.89	9.05		999.00		999.00	3.80	0.07
	1 24 12		18.66	1.85		999.00		16.25	2.46		104.80		13.30		999.00		999.00	2.07	0.02
	1 24 13		15.79	1.60		999.00		14.74	2.89	40.95	99.60	8.51	9.76		999.00		999.00	4.44	0.00
	1 24 14		17.47	1.25		999.00		18.74	1.94			7.51	11.62		999.00		999.00	3.12	0.03
	1 24 15		20.02	1.33	40.42	999.00	99.20	19.94	2.43	39.01	96.70	10.09	10.42		999.00		999.00	1.76	0.04
	1 24 16		16.20	1.29		999.00		16.91	1.91	38.98	92.10	7.92	10.86		999.00		999.00	3.32	0.06
	1 24 17		14.27	2.25		999.00		16.46	2.89	39.63	96.50	5.38	14.11		999.00		999.00	3.76	0.00
	1 24 18		14.91	2.82		999.00		12.78	2.79		121.90	3.49	29.70		999.00		999.00	4.30	0.03
	1 24 19		16.03	3.63		999.00		13.75	3.87		107.70	3.86	15.03		999.00		999.00	5.58	0.01
20	1 24 20	169.40	14.75	3.46	43.19	999.00	157.60	12.28	4.40	43.00	145.00	3.20	12.14	37.08	999.00	5.82	999.00	5.94	0.00

00 1 04 01 100 10	15 50 0 /		000 00 101 00	15 61	0 01	40 46 466 0		4 01	00 61 000 00	2 62 222	2 22	0 00
20 1 24 21 199.10	17.53 0.9		999.00 191.00	15.61	0.81	43.46 166.8		4.91	38.61 999.00	3.62 999.00	3.98	0.00
20 1 24 22 195.30	17.92 3.3		999.00 188.40	14.60	3.75	42.88 181.2		9.47	40.91 999.00	1.17 999.00	1.48	0.00
20 1 24 23 190.90	15.02 5.1		999.00 186.00	13.55	5.81	41.12 186.4		10.89	40.84 999.00	-0.77 999.00	-0.09	0.00
20 1 24 24 189.80	14.27 2.9		999.00 184.00	12.62	3.42	40.36 184.8		9.48	40.27 999.00	-0.43 999.00	0.14	0.00
20 1 25 1 210.90	21.25 4.7		999.00 205.80	18.76	4.54	39.85 202.4		12.06	39.93 999.00	-0.74 999.00	-0.16	0.00
20 1 25 2 230.50	20.26 5.0		999.00 224.50	18.22	5.52	39.23 217.2		9.43	39.51 999.00	-0.89 999.00	-0.38	0.00
20 1 25 3 231.10	16.95 3.4		999.00 224.60	14.97	4.35	38.04 215.0		11.61	38.47 999.00	-1.11 999.00	-0.47	0.00
20 1 25 4 228.90	14.25 2.4		999.00 223.40	12.13	2.81	37.34 215.3		8.77	37.66 999.00	-0.80 999.00	-0.21	0.00
20 1 25 5 235.80	13.48 3.7		999.00 230.30	11.84	4.51	37.04 221.9		9.10	37.19 999.00	-0.87 999.00	-0.08	0.02
20 1 25 6 247.00	12.94 3.0		999.00 242.00	11.19	4.04	36.13 232.5		7.33	36.44 999.00	-1.03 999.00	-0.22	0.02
20 1 25 7 248.60	15.73 3.4	45 34.75	999.00 243.70	14.01	4.01	35.52 235.3		7.08	35.63 999.00	-0.84 999.00	-0.07	0.00
20 1 25 8 243.10	15.27 4.0	34.17	999.00 238.40	14.00	3.86	34.99 231.8		7.21	35.28 999.00	-1.29 999.00	-0.50	0.00
20 1 25 9 231.90	14.16 4.2	27 33.46	999.00 227.00	12.73	4.68	34.18 218.3		10.55	34.69 999.00	-1.30 999.00	-0.55	0.00
20 1 25 10 236.40	17.71 4.4	44 33.61	999.00 230.90	15.98	5.04	34.31 226.7	10.49	8.64	35.08 999.00	-1.51 999.00	-0.88	0.00
20 1 25 11 243.00	21.64 4.8	34.48	999.00 238.20	20.47	5.24	34.94 233.5	14.40	8.14	35.72 999.00	-1.17 999.00	-0.60	0.00
20 1 25 12 242.50	17.84 5.2	29 34.48	999.00 236.70	16.79	5.22	34.94 230.8	11.32	8.22	35.72 999.00	-1.39 999.00	-0.81	0.00
20 1 25 13 245.20	18.44 5.1	15 35.04	999.00 240.90	17.40	5.62	35.61 235.4		8.49	36.45 999.00	-1.40 999.00	-0.83	0.00
20 1 25 14 237.10	17.26 4.7	78 35.37	999.00 231.60	16.48	4.56	36.25 225.8	11.43	7.95	36.74 999.00	-1.40 999.00	-0.45	0.00
20 1 25 15 235.10	17.70 5.0	35.37	999.00 229.60	16.67	5.34	36.25 224.4	11.16	9.32	36.74 999.00	-1.88 999.00	-1.01	0.00
20 1 25 16 229.10	16.71 6.7	76 34.29	999.00 225.50	15.62	7.23	34.98 222.7	11.06	10.55	36.14 999.00	-1.83 999.00	-1.20	0.00
20 1 25 17 235.10	20.52 5.1	18 33.54	999.00 230.30	18.52	6.59	34.04 224.9	12.41	9.73	35.21 999.00	-1.58 999.00	-1.15	0.01
20 1 25 18 229.80	19.57 4.9	94 32.53	999.00 223.80	17.43	5.51	32.98 220.0	10.48	11.46	33.73 999.00	-0.93 999.00	-0.46	0.01
20 1 25 19 240.20	22.29 4.3	37 31.88	999.00 234.20	19.75	4.84	32.29 228.3		8.48	32.62 999.00	-0.72 999.00	-0.35	0.00
20 1 25 20 248.20	24.59 4.0	31.64	999.00 242.80	22.78	4.50	32.02 237.8		7.83	32.41 999.00	-0.72 999.00	-0.32	0.01
20 1 25 21 246.50	21.02 4.2	25 31.61	999.00 241.10	19.33	4.72	31.97 234.9	14.17	7.59	32.44 999.00	-0.88 999.00	-0.55	0.00
20 1 25 22 247.10	21.79 4.1	19 33.11	999.00 999.00	20.20	4.36	32.87 235.6	14.00	8.00	32.47 999.00	0.88 999.00	0.55	0.00
20 1 25 23 246.60	21.83 3.6		999.00 240.60	19.84	4.09	31.51 235.0		7.55	32.11 999.00	-1.02 999.00	-0.60	0.00
20 1 25 24 249.40	25.25 3.9	95 31.20	999.00 244.20	23.67	4.41	31.44 238.2		7.43	32.19 999.00	-1.00 999.00	-0.87	0.00
20 1 26 1 251.30	22.25 4.3		999.00 245.80	20.83	4.43	31.62 239.0		7.92	32.35 999.00	-1.03 999.00	-0.70	0.00
20 1 26 2 254.30	22.76 4.5		999.00 249.10	21.44	4.91	31.71 242.0		8.08	32.41 999.00	-1.11 999.00	-0.68	0.00
20 1 26 3 255.60	21.39 4.6	64 31.35	999.00 249.60	19.83	5.24	31.85 245.4	14.25	8.80	32.57 999.00	-1.29 999.00	-0.78	0.00
20 1 26 4 255.40	20.50 4.6		999.00 249.60	19.28	5.21	31.83 243.1	13.48	7.95	32.65 999.00	-1.39 999.00	-0.86	0.00
20 1 26 5 254.00	22.06 4.2		999.00 248.10	21.08	4.43	31.82 241.0		7.80	32.72 999.00	-1.48 999.00	-0.94	0.00
20 1 26 6 256.90	20.06 4.7		999.00 251.80	18.64	5.37	31.64 244.7		9.44	32.62 999.00	-1.58 999.00	-1.00	0.00
20 1 26 7 253.10	20.47 4.2	29 31.11	999.00 248.10	19.24	4.39	31.69 241.7		8.05	32.68 999.00	-1.51 999.00	-0.95	0.00
20 1 26 8 251.80	19.16 4.2		999.00 245.90	18.04	4.40	31.64 239.2	12.67	8.14	32.56 999.00	-1.46 999.00	-0.91	0.00
20 1 26 9 244.10	17.82 4.2		999.00 238.10	16.66	4.40	31.67 230.8		7.95	32.62 999.00	-1.44 999.00	-0.93	0.00
20 1 26 10 245.20	18.39 4.3		999.00 239.00	17.44	5.10	31.72 232.0		8.22	32.69 999.00	-1.57 999.00	-1.04	0.00
20 1 26 11 249.20	19.83 4.5		999.00 243.70	19.07	4.58	32.09 237.5		7.94	33.17 999.00	-1.68 999.00	-1.11	0.00
20 1 26 12 244.50	20.47 4.5		999.00 239.70	19.87	4.71	32.22 232.8		8.71	33.40 999.00	-1.78 999.00	-1.20	0.00
20 1 26 13 245.90	23.49 4.1		999.00 241.30	22.71	4.58	32.29 237.1		7.33	33.47 999.00	-1.78 999.00	-1.21	0.00
20 1 26 14 253.80	22.26 5.0		999.00 248.90	21.16	5.59	32.05 243.2		8.90	33.16 999.00	-1.64 999.00	-1.06	0.00
20 1 26 15 254.90	23.03 4.9		999.00 249.80	22.12	5.90	32.12 244.9		8.62	33.21 999.00	-1.74 999.00	-1.14	0.00
20 1 26 16 251.80	21.12 4.2		999.00 246.60	20.16	4.27				33.45 999.00	-1.72 999.00	-1.14	0.00
20 1 26 17 254.10	20.28 4.6		999.00 248.40	19.46	4.71	32.47 241.6			33.59 999.00	-1.65 999.00	-1.09	0.00
20 1 26 18 253.90	18.99 4.5		999.00 248.30	17.90	4.53	32.69 241.4		7.59	33.74 999.00	-1.53 999.00	-1.01	0.00
20 1 26 19 254.10	19.26 4.6		999.00 248.40	18.21	5.05	32.55 241.3		7.65	33.52 999.00	-1.49 999.00	-0.96	0.00
20 1 26 20 256.10	19.06 4.9		999.00 251.60	17.99	5.57	32.65 243.9		7.90	33.68 999.00	-1.55 999.00	-1.02	0.00
20 1 26 21 261.50	19.90 3.8		999.00 256.10	17.86	5.48	32.45 247.7		8.81	33.47 999.00	-1.53 999.00	-1.00	0.00
20 1 26 22 259.50	20.10 4.0		999.00 254.10	18.50	4.85	32.36 246.4		8.66	33.36 999.00	-1.51 999.00	-0.98	0.00
20 1 26 23 260.50	20.21 4.1		999.00 255.00	18.44	5.59			8.42	33.33 999.00	-1.52 999.00	-1.02	0.00
20 1 26 24 259.50	19.92 4.2	29 31.77	999.00 254.10	18.22	5.01	32.30 245.4	11.77	8.86	33.33 999.00	-1.56 999.00	-1.03	0.00

20 1 27 1 000 00	000 00 000 00	21 75	000 00	000 00	000 00	000 00	22 20	000 00	000 00	999.00	22 21	000 00	000 00	000 00	0 05	0 00
20 1 27 1 999.00 20 1 27 2 263.20			999.00					999.00 247.30	999.00	9.51	32.89	999.00		999.00	-0.95	0.00
20 1 27 2 263.20 20 1 27 3 267.60	16.60 3.31		999.00	256.90	14.88	4.69 4.84		247.30	8.21	8.70	32.76	999.00	-1.43	999.00 999.00	-0.92	0.00
	15.93 3.64		999.00 999.00	260.60 260.50	13.87 13.23			247.90		8.83	32.76	999.00	-1.23	999.00	-0.81	0.00
20 1 27 4 268.40 20 1 27 5 273.20	15.48 3.67 15.34 4.70		999.00	266.90	13.23	4.93 5.82		252.90	7.77 7.65	9.69	32.76	999.00	-1.23	999.00	-0.81 -0.81	0.00
20 1 27 3 273.20	14.16 4.29		999.00	273.70	12.41	5.21		252.90	7.83	9.69	33.19	999.00	-1.24	999.00	-0.85	0.00
20 1 27 7 282.20	11.75 3.54		999.00	273.70	10.28	4.74		261.30	5.68	9.75	33.13	999.00	-1.32	999.00	-0.87	0.00
20 1 27 7 202.20	10.43 6.79		999.00	290.40	9.22	6.95	999.00		4.78	8.85	33.20	999.00	-0.93	999.00	-0.56	0.00
20 1 27 9 305.90	12.06 6.07		999.00	299.00	10.47	4.84		281.40	5.68	8.83	33.51	999.00	-1.15	999.00	-0.64	0.00
20 1 27 9 303.90	13.35 5.16		999.00	307.00	12.37	5.49		294.30	7.26	11.82	34.22	999.00	-1.84		-1.24	0.00
20 1 27 10 312.80	14.80 4.45		999.00	312.70	13.67	5.86		305.50	8.67	11.78	34.67	999.00	-2.03	999.00	-1.38	0.00
20 1 27 12 315.20	13.19 4.69			309.80	12.43	5.26		304.00	8.19	12.65	34.67	999.00	-2.26	999.00	-1.63	0.00
20 1 27 13 306.00	12.11 6.06		999.00	301.30	11.92	6.32		289.80	9.40	11.43	35.29	999.00	-2.29	999.00	-1.69	0.00
20 1 27 14 323.30	12.50 3.95		999.00	319.10	12.50	5.03		314.80	10.58	8.99	35.88	999.00	-2.30	999.00	-1.72	0.00
20 1 27 15 324.90	11.29 6.09		999.00	318.80	11.59	6.97		316.60	8.36	12.84	36.09	999.00	-2.40	999.00	-1.83	0.00
20 1 27 16 325.20	13.97 4.94		999.00	318.90	12.88	6.38		313.20	7.94	13.24	36.09	999.00	-1.75	999.00	-1.27	0.00
20 1 27 17 330.00	11.81 4.85		999.00	323.20	10.69	6.35		310.60	6.29	11.38	35.60	999.00	-1.57	999.00	-1.09	0.00
20 1 27 18 336.20	14.71 3.41		999.00	332.90	13.63	4.24		335.90	7.60	8.97	34.99	999.00	-1.15	999.00	-0.73	0.00
20 1 27 19 332.70	13.53 4.52		999.00	328.00	12.40	5.85		322.30	7.25	10.95	34.68	999.00	-1.31	999.00	-0.82	0.00
20 1 27 20 328.00	13.40 3.54		999.00	322.90	11.98	4.45		314.20	7.49	9.48	34.50	999.00	-1.18	999.00	-0.74	0.00
20 1 27 21 293.90	11.73 2.68			286.90	10.19	3.56		265.70	4.58	10.23	34.25	999.00	-0.76	999.00	-0.43	0.00
20 1 27 22 290.90	12.31 2.50		999.00	280.00	10.53	3.66		263.50	5.47	8.53	34.31	999.00	-0.86	999.00	-0.64	0.00
20 1 27 23 285.00	12.11 2.65		999.00	272.90	10.16	4.91		251.90	5.35	8.49	34.19	999.00	-0.81	999.00	-0.54	0.00
20 1 27 24 271.60	13.58 2.03		999.00	263.40	11.79	3.16		249.20	5.99	8.14	33.95	999.00	-0.93	999.00	-0.63	0.00
20 1 28 1 277.30	14.59 3.51			269.80	12.39	4.33	33.06	254.80	7.04	7.83	33.76	999.00	-1.01	999.00	-0.67	0.00
20 1 28 2 293.00	14.72 2.85	32.75	999.00	284.40	12.82	3.96	33.05	266.30	6.23	9.34	33.72	999.00	-0.87	999.00	-0.61	0.00
20 1 28 3 294.80	14.16 3.77	33.03	999.00	288.20	12.44	4.69	33.44	270.40	6.51	8.89	34.06	999.00	-1.04	999.00	-0.62	0.00
20 1 28 4 293.10	13.48 4.25	32.91	999.00	286.80	12.24	4.46	33.35	271.50	6.96	9.40	34.03	999.00	-1.12	999.00	-0.66	0.00
20 1 28 5 297.40	14.10 4.51	32.68	999.00	291.80	12.75	4.76	33.12	277.90	7.77	9.88	33.82	999.00	-1.22	999.00	-0.74	0.00
20 1 28 6 300.50	14.91 5.20	32.68	999.00	296.10	13.74	5.82	33.12	287.60	8.59	10.50	33.82	999.00	-1.37	999.00	-0.87	0.00
20 1 28 7 290.60	10.38 3.74	31.11	999.00	288.50	9.15	4.16	31.55	285.10	4.70	9.55	32.38	999.00	-0.87	999.00	-0.54	0.00
20 1 28 8 276.20	10.47 3.06	31.42	999.00	269.60	9.64	3.20	31.84	257.50	5.58	7.25	32.51	999.00	-1.23	999.00	-0.75	0.00
20 1 28 9 298.90	9.41 4.90	31.38	999.00	291.40	8.63	5.02	31.87	268.40	4.87	9.33	32.68	999.00	-1.40	999.00	-0.88	0.00
20 1 28 10 302.50	8.53 5.95	31.25	999.00	298.20	7.93	5.95	31.75	284.60	5.06	10.33	32.64	999.00	-1.53	999.00	-1.00	0.00
20 1 28 11 296.50	9.95 11.31	31.32	999.00	290.70	9.56	11.58		280.00	6.92	15.04	33.01	999.00	-1.83	999.00	-1.29	0.00
20 1 28 12 303.80	12.04 8.38		999.00	299.80	11.80	8.74		295.90	8.42	14.46	33.43	999.00	-2.06	999.00	-1.49	0.00
20 1 28 13 281.80	8.73 12.24		999.00	274.80	8.59	12.66		264.80	6.93	13.51	33.47	999.00	-2.24	999.00	-1.64	0.00
20 1 28 14 318.10	10.54 5.48		999.00	312.50	10.17	5.75		306.80	6.32	12.79	33.47	999.00	-1.89	999.00	-1.36	0.00
20 1 28 15 323.10	12.55 5.79			317.80	11.67	7.03		313.90	7.01	12.28	33.71	999.00	-1.74	999.00	-1.22	0.00
20 1 28 16 325.70	7.53 8.01		999.00	319.70	7.34	8.04		309.60	4.86	15.53	33.89	999.00	-1.97	999.00	-1.41	0.00
20 1 28 17 315.40	7.70 4.12		999.00	309.60	7.08	5.28		301.40	4.63	11.15	33.96	999.00	-1.66	999.00	-1.16	0.00
20 1 28 18 280.80	6.59 8.23		999.00	267.90	6.95	5.09	32.57	250.20	5.21	7.69	33.59	999.00	-1.33	999.00	-0.92	0.00
20 1 28 19 304.90	5.93 10.88		999.00		5.71	11.28		259.30	3.43	9.17		999.00		999.00	-0.71	0.00
20 1 28 20 289.10	5.55 11.29		999.00		5.24		31.60			14.27				999.00	-0.68	0.00
20 1 28 21 304.70	7.28 5.33		999.00		5.63	9.82		250.60		15.57		999.00		999.00	-0.48	0.00
20 1 28 22 314.70	8.44 4.08		999.00		7.56	4.71		286.20	4.15	9.18		999.00		999.00	-0.67	0.00
20 1 28 23 331.70	10.53 4.72		999.00	321.60	9.14	5.65		294.90	4.44	11.22		999.00		999.00	-0.53	0.00
20 1 28 24 20.26	9.45 30.67		999.00	10.92	8.60	29.48	32.09	0.43	6.02	29.27		999.00		999.00	-0.88	0.00
20 1 29 1 67.90	13.19 5.67		999.00	62.77	12.51	5.57	30.69	65.58	7.61	11.45		999.00		999.00	-1.08	0.00
20 1 29 2 73.40	14.89 3.46		999.00	68.02	14.27	4.15	30.06	72.60	9.47	10.45		999.00		999.00	-1.12	0.00
20 1 29 3 73.60	14.09 2.64		999.00	67.56	13.84	3.31	29.44	72.10	9.28	10.07		999.00		999.00	-1.13	0.00
20 1 29 4 78.60	12.14 4.23	∠8.89	999.00	72.20	11.70	4.70	29.44	74.20	8.04	9.89	30.5/	999.00	-1.0/	999.00	-1.10	0.00

20	1 29 5	88.20	8.76	4.74		999.00	82.20	8.57	4.75	28.98	82.00	5.67	11.67		999.00	-1.65	999.00	-1.11	0.00
20	1 29 6	88.00	9.76	5.72	28.36	999.00	82.20	9.60	6.84	28.90	84.10	6.06	13.24	30.02	999.00	-1.66	999.00	-1.13	0.00
20	1 29 7	86.60	9.27	4.21	28.33	999.00	80.80	8.96	4.45	28.87	83.50	6.16	13.17	30.00	999.00	-1.65	999.00	-1.11	0.00
20	1 29 8	82.70	9.21	4.60	28.39	999.00	77.50	8.91	5.55	28.93	78.80	5.65	12.10	30.05	999.00	-1.65	999.00	-1.11	0.00
20	1 29 9	82.30	9.79	5.14	28.49	999.00	75.90	9.24	5.52	29.05	80.70	5.86	11.76	30.18	999.00	-1.74	999.00	-1.18	0.00
20	1 29 10	87.10	9.80	6.18	28.65	999.00	82.50	9.58	5.70	29.23	86.10	5.82	13.44	30.51	999.00	-1.94	999.00	-1.35	0.00
20	1 29 11	88.90	8.95	3.39	28.68	999.00	83.40	8.87	3.70	29.27	90.00	6.25	11.38	30.68	999.00	-1.98	999.00	-1.40	0.00
	1 29 12	75.30	7.70	10.59	28.79	999.00	70.50	7.40	9.35	29.41	71.70	6.31	13.55	30.89	999.00	-2.08	999.00	-1.43	0.00
20	1 29 13	66.90	6.88	11.65	28.93	999.00	63.52	6.92	10.77	29.51	63.99	6.43	12.06	30.83	999.00	-1.75	999.00	-1.20	0.00
	1 29 14	56.65	8.58	9.40	29.05	999.00	52.97	8.54	8.74	29.59	54.28	6.94	14.01	30.89	999.00	-1.92	999.00	-1.38	0.00
	1 29 15	60.52	9.18	6.69	29.02	999.00	57.59	8.97	6.45	29.56	54.66	7.21	14.48	30.98	999.00	-1.92	999.00	-1.40	0.00
	1 29 16	66.33	8.75	7.38	28.83	999.00	61.06	8.79	5.95	29.39	65.09	6.97	11.11	30.70	999.00	-1.85	999.00	-1.30	0.00
	1 29 17	62.22	7.26	9.96	28.81	999.00	60.90	7.26	9.09	29.37	66.19	5.07	12.30	30.62	999.00	-1.77	999.00	-1.24	0.00
	1 29 18	53.71	6.55	10.45	28.91	999.00	50.21	6.23	10.14	29.46	49.07	4.61	16.66	30.60	999.00	-1.67	999.00	-1.11	0.00
	1 29 19	68.34	12.45	5.57	28.91	999.00	63.15	12.03	6.32	29.46	70.20	7.74	13.01	30.60	999.00	-1.63	999.00	-1.09	0.00
	1 29 20	86.30	8.46	9.93	29.26	999.00	80.80	8.18	9.65	29.40	83.40	5.34	11.10	30.88	999.00	-1.59	999.00	-1.09	0.00
	1 29 20	98.80		11.97		999.00		6.28		29.91	98.90	3.39	11.10		999.00		999.00		0.00
			6.67		29.39		92.40		11.63					30.93		-1.50		-0.94	
	1 29 22	170.90	3.41	8.32	29.24	999.00	172.40	3.04	7.05	29.73	160.80	1.56	22.58	30.69	999.00	-1.43	999.00	-1.01	0.00
	1 29 23		5.00	5.39	29.32	999.00	116.70	4.10	8.22	29.74	119.00	1.76	16.36	30.55	999.00	-1.20	999.00	-0.72	0.00
	1 29 24		2.35	9.70	29.44	999.00	66.08	1.51	24.20	29.86	24.80	1.76	8.64	30.66	999.00	-1.26	999.00	-0.92	0.00
	1 30 1	84.90	4.68	7.06	29.31	999.00	81.70	4.65	7.53	29.82	92.20	2.42	16.43	30.75	999.00	-1.52	999.00	-0.99	0.00
	1 30 2	50.29	3.73	15.36	28.92	999.00	44.68	4.19	14.52	29.44	43.50	3.85	18.13	30.50	999.00	-1.54	999.00	-1.06	0.00
	1 30 3		7.35	9.50	28.30	999.00	115.30	6.57	11.55	28.82	120.70	3.70	18.65	29.80	999.00	-1.38	999.00	-0.92	0.00
	1 30 4		4.22	20.97	28.46	999.00	244.30	4.22	15.35	28.82	245.70	3.68	8.14	29.52	999.00	-1.32	999.00	-0.94	0.00
	1 30 5	258.00	3.68	12.19	28.00	999.00	255.60	3.70	8.65	28.50	257.90	2.56	11.67	29.50	999.00	-1.53	999.00	-1.01	0.00
	1 30 6	248.20	2.10	94.50	27.92	999.00	261.50	2.75	27.38	28.26	253.40	2.42	39.35	29.03	999.00	-1.05	999.00	-0.69	0.00
	1 30 7		2.04	30.12	28.25	999.00	303.90	2.77	10.01	28.64		2.91	9.90	29.27	999.00	-1.06	999.00	-0.56	0.00
	1 30 8	276.00	3.36	9.87	28.40	999.00	277.50	3.84	9.18	28.90	251.00	2.53	23.34	29.46	999.00	-1.18	999.00	-0.70	0.00
20	1 30 9	165.70	0.98	83.40	28.69	999.00	227.80	1.26	55.24	29.19	257.70	2.01	18.96	29.94	999.00	-1.23	999.00	-0.76	0.00
20	1 30 10	255.30	3.01	9.67	28.69	999.00	256.50	3.37	7.32	29.19	253.70	2.56	14.97	29.94	999.00	-1.40	999.00	-0.98	0.00
20	1 30 11	251.80	4.01	10.99	28.85	999.00	254.00	4.55	9.99	29.30	258.90	4.27	11.49	30.35	999.00	-1.48	999.00	-1.05	0.00
20	1 30 12	999.00	999.00	999.00	28.87	999.00	999.00	999.00	999.00	29.30	999.00	999.00	999.00	30.35	999.00	999.00	999.00	999.00	0.00
20	1 30 13	82.80	6.18	6.92	28.72	999.00	79.30	6.14	7.84	29.28	90.40	5.17	15.73	30.51	999.00	-1.87	999.00	-1.28	0.00
20	1 30 14	70.60	6.17	8.99	28.47	999.00	66.42	6.17	9.89	29.03	73.40	5.26	16.48	30.24	999.00	-1.80	999.00	-1.24	0.00
20	1 30 15	69.18	6.39	10.68	28.40	999.00	63.33	6.30	11.14	28.97	64.88	6.21	14.79	30.22	999.00	-1.74	999.00	-1.16	0.00
20	1 30 16	57.66	5.54	10.06	28.54	999.00	57.24	5.96	7.61	29.07	59.92	5.11	14.38	30.29	999.00	-1.74	999.00	-1.22	0.00
20	1 30 17	68.64	4.22	7.09	28.65	999.00	64.24	4.34	7.19	29.20	64.22	3.72	12.91	30.33	999.00	-1.67	999.00	-1.11	0.00
20	1 30 18	68.48	5.08	5.07	28.61	999.00	61.24	5.13	5.89	29.18	69.22	3.81	11.63	30.30	999.00	-1.66	999.00	-1.11	0.00
20	1 30 19	79.10	4.00	6.18	28.46	999.00	74.80	3.82	7.21	29.01	78.10	2.34	14.42	30.11	999.00	-1.62	999.00	-1.06	0.00
20	1 30 20	75.90	3.74	4.57	28.41	999.00	69.37	3.62	5.81	28.97	72.50	2.72	11.99	30.04	999.00	-1.65	999.00	-1.07	0.00
	1 30 21	75.50	2.26	6.22	28.42	999.00	77.00	2.22	4.84	28.97	129.80	1.35	14.34	29.95	999.00	-1.43	999.00	-0.92	0.00
	1 30 22	232.40	1.18	1.91	28.59	999.00	209.80	1.65	15.76	29.03	210.90	1.70	18.85	30.05	999.00	-1.40	999.00	-0.91	0.00
	1 30 23		2.82	5.97		999.00	199.00	3.29	2.96	29.09	208.10	2.36	11.65	29.98			999.00	-0.81	0.00
	1 30 24		4.31	2.99		999.00		4.11	4.35		163.80	1.85	15.55		999.00		999.00	-0.80	0.00
	1 31 1		4.74	4.12		999.00		4.64	4.36		175.20	2.05	8.97		999.00		999.00	-0.51	0.00
	1 31 2		5.11	6.16		999.00		3.76	7.06		176.00	2.14	10.85		999.00		999.00	-1.01	0.00
	1 31 2		3.74	10.09		999.00		2.46	24.87	28.96	94.70	1.51	23.05		999.00		999.00	-0.93	0.00
	1 31 3		6.15	5.33		999.00		4.76	6.31		189.60	1.51	34.41		999.00		999.00	-0.93	0.00
	1 31 5		6.41	4.07		999.00		6.01	4.03		166.70	2.60	15.25		999.00		999.00	-0.40 -0.67	0.00
	1 31 6		2.27	13.59		999.00		1.77	25.91		140.80	1.45	21.74		999.00		999.00	-0.67	0.00
	1 31 7		4.30	7.48		999.00		4.81	5.84	29.64	84.00	1.03	55.26		999.00		999.00	-0.14	0.00
20	1 31 8	186.20	6.91	1.18	29.29	999.00	1/6.80	5.56	3.29	29.42	148.30	2.11	14.40	30.0/	999.00	-0.66	999.00	-0.71	0.00

	1 31 9		5.41	2.88		999.00		5.48	2.52		150.90	1.47	28.38		999.00		999.00	-0.29	0.00
20	1 31 10	156.70	4.39	4.61	29.35	999.00		3.39	6.12	29.73	131.30	2.23	12.68	30.43	999.00	-1.46	999.00	-1.03	0.00
20	1 31 11	152.80	4.75	7.02	29.34	999.00	141.00	4.83	6.11	29.86	140.60	3.44	14.33	31.10	999.00	-1.87	999.00	-1.31	0.00
20	1 31 12	178.50	6.60	8.31	29.81	999.00	172.70	6.50	9.74	30.46	181.60	4.83	17.38	31.76	999.00	-2.05	999.00	-1.35	0.00
20	1 31 13	206.50	4.74	8.24	30.10	999.00	201.80	4.72	8.82	30.90	193.70	3.98	12.68	32.17	999.00	-1.98	999.00	-1.17	0.00
20	1 31 14	252.60	4.83	9.32	30.70	999.00	246.40	4.84	9.09	31.30	231.30	4.39	15.05	32.97	999.00	-2.43	999.00	-1.93	0.00
20	1 31 15	256.90	3.64	12.94	31.65	999.00	254.20	3.80	15.76	32.17	237.40	3.10	33.75	34.14	999.00	-2.20	999.00	-1.64	0.00
	1 31 16	31.21	6.77	9.83	32.06	999.00	29.87	6.00	9.85	32.81	36.31	8.04	7.73	33.95	999.00	-1.05	999.00	-0.65	0.00
	1 31 17	24.56	7.42	8.07	30.74	999.00	21.72	6.66	7.68	31.16	28.93	7.10	11.60	32.17	999.00	-1.51	999.00	-1.05	0.00
	1 31 18	999.00	999.00	999.00	30.61	999.00	999.00	999.00	999.00	31.07	999.00	999.00	999.00	32.12	999.00	999.00	999.00	-1.07	0.00
	1 31 19	78.20	4.32	6.86	29.87	999.00	75.30	5.14	4.87	30.29	79.30	3.46	10.98	31.32	999.00	-1.28	999.00	-1.00	0.00
	1 31 20	88.70	3.08	14.69	30.26	999.00	94.60	3.43	9.26		124.00	2.16	10.07	31.33	999.00	-1.07	999.00	-0.72	0.00
	1 31 20	66.24	1.93	27.67	30.29	999.00	82.80	1.97	16.53	30.59	58.42	1.13	14.18	31.44	999.00	-1.18	999.00	-0.86	0.00
	1 31 21		2.19	9.19	30.26	999.00	104.20	2.35	8.57		148.20	1.64	36.89	31.49	999.00	-1.42	999.00	-0.93	0.00
	1 31 23		3.37	8.10	30.26	999.00	121.60	3.54	5.76		126.70	1.52	23.77	31.49	999.00	-1.37	999.00	-0.90	0.00
	1 31 24		3.14	6.75	30.02	999.00	135.70	2.65	11.01		172.00	1.57	17.20	31.26	999.00	-1.27	999.00	-0.90	0.00
20		223.30	4.00	8.57	30.22	999.00	211.80	3.81	13.86		190.40	2.29	19.56	31.24	999.00	-0.69	999.00	-0.30	0.00
20	2 1 2	286.70	3.83	12.88	30.36	999.00	281.00	3.91	11.55		279.30	2.85	19.25	31.29	999.00	-1.16	999.00	-0.63	0.00
20	2 1 3		4.91	9.50	30.22	999.00	217.50	4.87	11.10		208.80	3.18	13.68	31.50	999.00	-1.36	999.00	-0.83	0.00
20	2 1 4	230.60	5.45	6.25	30.23	999.00	224.30	5.15	7.91	30.76	214.90	3.24	22.82	31.64	999.00	-1.32	999.00	-0.81	0.00
20	2 1 5	247.60	7.44	7.20	30.10	999.00	242.30	6.93	6.06	30.60		3.46	11.97	31.10	999.00	-0.92	999.00	-0.45	0.00
20	2 1 6	242.40	6.46	4.37	29.98	999.00	235.50	5.99	4.35	30.46	221.20	3.37	6.44	31.09	999.00	-1.02	999.00	-0.57	0.00
20	2 1 7	244.40	7.87	5.87	30.02	999.00	239.30	7.45	4.65	30.52	234.10	5.02	10.71	31.08	999.00	-1.30	999.00	-0.78	0.00
20	2 1 8	229.10	7.41	7.25	29.93	999.00	223.50	6.89	6.97	30.48	220.60	5.06	12.38	31.43	999.00	-1.52	999.00	-0.98	0.00
20	2 1 9	213.10	6.79	8.79	29.92	999.00	209.40	6.22	8.91	30.43	206.80	3.52	13.22	31.43	999.00	-1.53	999.00	-1.02	0.00
20	2 1 10	229.70	9.40	6.05	30.18	999.00	225.80	8.95	6.65	30.75	223.40	6.48	10.21	31.91	999.00	-1.86	999.00	-1.29	0.00
20	2 1 11	201.50	9.62	9.56	30.64	999.00	195.90	9.45	10.50	31.32	195.70	6.52	17.85	32.68	999.00	-2.14	999.00	-1.35	0.00
20		197.80	9.35	6.78	31.15	999.00	195.30	9.10	9.06	31.86	202.00	5.94	15.42	33.17	999.00	-1.93	999.00	-1.29	0.00
20		206.40	10.41	5.63	31.55	999.00	199.50	10.17	5.21		200.10	6.76	13.37	33.44	999.00	-1.87	999.00	-1.21	0.00
20		205.00	12.73	4.12	32.51	999.00	199.00	12.51	4.67		199.40	8.60	12.53	34.56	999.00	-2.05	999.00	-1.33	0.00
20		204.60	15.09	4.69	33.86	999.00	198.70	14.43	4.82		196.60	10.03	13.12	36.08	999.00	-2.08	999.00	-1.33	0.00
20		215.20	16.94	5.02	34.30	999.00	210.60	15.91	5.60	34.88	210.00	10.48	12.60	36.26	999.00	-1.94	999.00	-1.37	0.00
20		217.40	14.53	5.34	34.02	999.00	211.50	13.21	6.05	34.60	207.30	7.14	13.12	35.79	999.00	-1.62	999.00	-1.05	0.00
20		241.60	15.45	3.72	34.02	999.00	236.30	13.21	4.49		229.90	8.01	9.21	35.73	999.00	-0.63	999.00	-0.04	0.00
		264.30	17.34		34.01		260.00	15.50	7.04	34.58	253.30		9.67	35.21	999.00	-1.12	999.00	-0.18	0.00
20				6.43		999.00						10.02							
20		273.20	21.29	4.99	34.17	999.00	268.00	19.38	5.97		259.30	12.88	10.45	35.19	999.00	-0.96	999.00	-0.04	0.01
20		271.00	20.26	5.92	33.64	999.00	266.40	18.14	6.95		259.30	11.66	11.46	34.66	999.00	-0.99	999.00	-0.15	0.00
20	2 1 22		20.41	3.94	33.54	999.00	259.30	18.09	4.84	34.28	253.70	11.24	8.80	34.21	999.00	-0.65	999.00	0.09	0.00
20	2 1 23		18.17	3.97	33.54	999.00	258.60	16.28	5.30	34.28	253.50	10.02	8.91	34.21	999.00	-0.57	999.00	-0.07	0.00
20		256.80	19.93	4.31	33.46	999.00	250.70	18.21	4.89		243.90	12.05	8.17	34.24	999.00	-0.82	999.00	-0.26	0.00
20	2 2 1	258.10	20.60	4.14	999.00	999.00	253.20	19.24	4.59	999.00	247.70	13.13	8.01	34.20	999.00	-0.84	999.00	-0.22	0.00
20	2 2 2	256.80	21.75	5.02	33.15	999.00	251.70	20.18	5.80	33.78	244.30	13.59	8.89	33.88	999.00	-0.81	999.00	-0.16	0.00
20	2 2 3	244.30	19.19	5.14	32.69	999.00		17.83	5.32		231.10	12.07	7.36		999.00		999.00	-0.21	0.00
20	2 2 4	231.10	19.84	4.07	31.75	999.00	224.90	17.89	4.73	32.41	217.80	10.49	10.13	33.24	999.00	-1.72	999.00	-0.89	0.00
20	2 2 5	222.00	19.56	5.06		999.00		17.35	6.09		211.80	9.69	12.53	33.05	999.00		999.00	-0.89	0.00
20		212.30	19.89	4.81		999.00		17.90	5.45		204.60	9.56	12.93		999.00	-1.36	999.00	-0.81	0.00
	2 2 7		23.65	4.33	32.50	999.00	191.90	21.36	5.23		191.20	12.13	10.68		999.00		999.00	-0.86	0.00
	2 2 8		27.66	4.37		999.00		25.08	5.31		201.90	13.49	11.67		999.00		999.00	-0.78	0.00
	2 2 9		30.07	4.44		999.00		27.57	4.88		213.80	15.83	11.54		999.00		999.00	-0.54	0.00
	2 2 10		31.38	5.74				29.18	6.24		229.00	21.64	8.07		999.00		999.00	-1.01	0.00
	2 2 11		37.51	5.28		999.00		36.08	5.43		235.70	27.25	8.75		999.00		999.00	-1.07	0.00
	2 2 12		33.30	4.61		999.00		32.17	4.69		238.00	23.98	7.89		999.00		999.00	-1.26	0.00
20	۷ ۷ ۱۷	277.20	55.50	4.01	41.00	222.00	277.50	JZ • I /	4.09	41.07	200.00	20.00	1.09	40.04	222.00	⊥•/⊥	222.00	1 • ∠ ∪	0.00

20	2	2 13	261.70	29.36	5.31	43.83	999.00	258.10	27.13	6.40	44.32	248.90	19.73	10.32	45.88	999.00	-2.27	999.00	-1.76	0.00
20	2	2 14	268.10	28.27	5.89	46.58	999.00	263.40	26.58	7.07	47.09	254.00	19.64	10.96	48.93	999.00	-2.32	999.00	-1.83	0.00
20	2	2 15	269.40	31.44	6.16	49.12	999.00	264.90	28.78	7.78	49.62	257.50	20.09	10.48	51.38	999.00	-2.15	999.00	-1.60	0.00
20	2	2 16	280.10	26.99	6.72	50.65	999.00	276.00	25.65	6.80	51.20	267.00	19.07	10.10	52.73	999.00	-2.10	999.00	-1.48	0.00
20		2 17	282.80	28.37	5.75	51.28	999.00	278.40	26.36	6.24	51.79	270.90	17.38	10.75	53.02	999.00	-1.47	999.00	-0.99	0.00
20		2 18	280.80	27.19	5.07	49.93	999.00	276.50	24.17	6.44		267.80	15.23	10.51	51.03	999.00	-0.79	999.00	-0.41	0.00
20			278.60	23.54	4.82	48.66	999.00	272.40	20.37	5.49		262.30	11.14	9.10	48.74	999.00	0.16	999.00	0.30	0.00
20		2 20	276.60	21.94	6.00	47.95	999.00	270.60	19.46	6.52		258.50	10.60	9.92	47.85	999.00	0.18	999.00	0.42	0.00
20		2 21		20.18	3.84	47.40	999.00	283.70	17.43	4.65		265.70	7.20	10.23	46.72	999.00	1.13	999.00	1.08	0.00
20	2	2 22	292.70	22.71	3.77	47.07	999.00	286.30	20.24	4.25	47.19	265.90	9.81	9.31	45.82	999.00	0.82	999.00	0.98	0.00
20	2	2 23	280.70	19.04	3.07	46.05	999.00	272.40	16.42	3.98	46.17	248.80	7.41	7.10	45.00	999.00	1.40	999.00	1.48	0.00
20	2	2 24	273.00	19.99	3.29	45.37	999.00	259.60	17.05	3.34	45.11	231.70	7.61	3.91	42.40	999.00	3.91	999.00	3.45	0.00
20	2	3 1	283.20	19.65	2.07	45.05	999.00	271.10	16.93	3.00	44.67	233.10	6.22	4.92	41.05	999.00	3.66	999.00	3.32	0.00
20	2	3 2	274.30	17.77	2.02	44.17	999.00	258.50	16.44	2.59	43.54	227.50	6.98	4.94	40.26	999.00	4.24	999.00	3.57	0.00
20	2	3 3		20.20	2.21	43.38	999.00	249.20	17.25	2.40		226.10	7.46	5.49	39.52	999.00	3.55	999.00	2.59	0.00
20	2	3 4	268.80	18.66	1.49	42.30	999.00	254.20	15.07	2.15		223.00	5.75	5.61	38.93	999.00	3.52	999.00	2.60	0.00
20	2		277.30	17.44	2.90	41.92	999.00	258.10	14.72	2.35		221.40	5.34	6.09	37.68	999.00	4.77	999.00	3.20	0.00
		3 6	268.20	14.64	3.05	41.84	999.00	248.80	13.81	3.04		210.30	4.26	7.69	37.03	999.00	4.78	999.00	3.69	0.00
20	2																			
20	2	3 7	266.40	13.77	1.79	41.84	999.00	251.10	14.56	2.17		198.40	1.78	32.89	37.03	999.00	6.43	999.00	5.00	0.00
20	2	3 8	268.60	11.54	5.68	41.42	999.00	244.10	10.69	5.93		177.60	3.69	10.95	35.17	999.00	5.91	999.00	3.79	0.00
20	2	3 9	266.90	7.13	1.29	41.21	999.00	262.30	9.67	2.77		196.60	3.14	9.56	35.67	999.00	5.35	999.00	3.75	0.00
20	2	3 10	281.70	1.64	6.47	41.78	999.00	298.00	4.17	2.39	40.77	187.90	2.28	11.79	37.88	999.00	3.23	999.00	2.39	0.00
20	2	3 11	136.90	4.17	5.28	41.73	999.00	143.40	3.81	6.13	41.23	153.70	3.09	15.24	40.22	999.00	0.23	999.00	-0.93	0.00
20	2	3 12	154.60	5.99	10.12	41.15	999.00	139.10	5.98	8.18	41.74	124.80	5.24	15.46	42.97	999.00	-2.26	999.00	-1.62	0.00
20	2	3 13	160.00	5.90	11.39	43.40	999.00	138.80	5.19	13.95	43.86	103.60	5.12	23.33	45.01	999.00	-0.73	999.00	-0.47	0.00
20	2	3 14	83.70	8.10	5.70	44.14	999.00	68.61	10.45	3.77	43.61	67.04	8.46	11.05	42.87	999.00	1.04	999.00	0.29	0.00
20		3 15	76.80	13.39	2.83	999.00	999.00	70.10	13.21	6.05	42.17	68.02	9.75	9.20	41.96	999.00	999.00	999.00	1.10	0.00
20	2	3 16	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	43.27	999.00	999.00	999.00	42.17	999.00	999.00	999.00	999.00	0.00
20	2	3 17	97.50	14.12	1.92	40.74	999.00	90.30	13.57	3.76	39.84	106.10	5.36	13.83	38.72	999.00	1.77	999.00	1.11	0.00
20	2		107.20	19.32	1.99	39.64	999.00	98.20	20.25	2.90		100.10	10.66	10.69	37.60	999.00	1.83	999.00	0.57	0.00
20	2		105.10	23.56	1.88	38.84	999.00	98.70	18.53	2.39	37.94	95.30	6.73	13.09	36.69	999.00	2.21	999.00	0.95	0.00
20	2		105.00	18.90	1.39	39.06	999.00	95.70	15.51	2.24	37.15	94.70	8.12	9.23	36.48	999.00	3.24	999.00	0.94	0.00
20			125.60	12.16	2.94	43.35	999.00	99.90	17.41	3.29	38.11	98.40	9.06	9.10	36.51	999.00	7.82	999.00	1.50	0.00
20			171.30	8.89	6.45	44.17	999.00	139.70	11.78	5.59	42.17	121.20	6.36	12.32	36.44	999.00	999.00	999.00	7.96	0.00
20	2	3 23	197.00	11.01	4.16	999.00	999.00	162.10	10.39	3.21	45.41	131.60	3.25	10.51	37.61	999.00	999.00	999.00	7.97	0.00
20	2	3 24	169.20	3.15	7.43	43.52	999.00	41.77	1.84	39.47	41.07	37.81	4.16	22.85	37.42	999.00	5.62	999.00	3.15	0.00
20	2	4 1	263.40	4.97	14.72	41.36	999.00	3.14	2.91	20.78	37.90	15.05	4.22	13.03	36.27	999.00	5.11	999.00	1.67	0.00
20	2	4 2	339.30	6.38	6.45	39.91	999.00	7.23	6.13	5.59	37.67	2.32	6.16	7.49	35.80	999.00	3.60	999.00	2.19	0.00
20	2	4 3	353.10	5.63	5.84	39.91	999.00	20.03	5.09	8.59	38.27	15.13	3.79	18.92	35.88	999.00	3.88	999.00	1.84	0.00
20	2	4 4	30.37	6.00	7.33	38.04	999.00	22.79	6.05	8.29	36.37	346.00	3.99	11.60	35.89	999.00	1.76	999.00	0.35	0.00
20	2	4 5	30.74	6.89	9.37	36.53	999.00	33.66	6.55	15.54	35.79	12.97	5.11	16.82	35.81	999.00	0.86	999.00	0.04	0.00
20	2	4 6	29.22	18.20	5.99	34.58	999.00	23.70	14.95	7.26	34.73	25.11	12.10	11.57	35.34	999.00	-0.58	999.00	-0.50	0.00
20	2	4 7	32.23	19.01	2.55	34.43	999.00	28.28	14.32	4.98	34.65	26.42	10.60	11.33		999.00		999.00	-0.79	0.00
		4 8	30.55	22.69	4.02		999.00	26.11	17.30	6.94	34.55	26.68	12.37	12.37		999.00		999.00	-0.79	0.00
20		4 9	37.68	20.03	4.20		999.00	34.94	13.51	6.47	34.47	43.11	10.95	10.80		999.00		999.00	-1.05	0.00
		4 10	38.37	20.04	3.34		999.00	35.20	13.57	5.36	34.50	38.84	11.74	10.21		999.00		999.00	-1.00	0.00
20	2	4 11	39.56	18.71	2.94	34.20	999.00	35.39	12.26	5.36	34.53	41.24	10.41	9.55		999.00	-1.34	999.00	-1.05	0.00
20	2	4 12	33.53	22.57	2.79	34.20	999.00	30.40	16.54	4.87	34.48	37.46	14.33	9.70	35.57	999.00	-1.56	999.00	-1.17	0.00
		4 13	33.33	24.32	2.70	33.60		29.11	18.71	5.54	34.03	33.25	14.38	10.75	35.25	999.00		999.00	-1.27	0.00
	_																			
20		4 14	33.52	22.94	2.65	33.04	999.00	29.71	16.95	5.84	33.55	33.62	14.15	10.45	34.81	999.00	-1.//	999.00	-1.28	0.00
	2	4 14 4 15	33.52 32.96	22.94	2.65	33.04 33.04	999.00	29.71 29.54	16.95 17.28	5.84 5.29	33.55 33.55	33.62 32.77	14.15 13.82	10.45 10.72		999.00		999.00	-1.28 -1.18	0.00
20	2	4 14 4 15 4 16	33.52 32.96 40.22	22.94 23.10 21.53	2.65 2.64 4.13	33.04	999.00 999.00 999.00	29.71 29.54 36.27	16.95 17.28 15.48	5.84 5.29 6.70	33.55 33.55 33.20	33.62 32.77 43.08	14.15 13.82 15.03	10.45 10.72 10.66	34.81	999.00 999.00 999.00	-1.68	999.00 999.00 999.00	-1.28 -1.18 -1.27	0.00

20 2	4 17	35.43	20.59	3.13	32.63	999.00	32.01	14.92	4.73	33.16	35.28	14.05	9.53	34.35	999.00	-1.66	999.00	-1.15	0.00
20 2	4 18	41.63	17.06	6.15	32.72	999.00	37.66	13.16	7.25	33.22	41.65	12.50	9.89	34.35	999.00	-1.64	999.00	-1.13	0.00
20 2	4 19	39.45	21.06	4.92	32.41	999.00	36.17	15.69	6.36	32.97	40.22	15.24	9.93	34.19	999.00	-1.79	999.00	-1.23	0.01
20 2	4 20	44.00	18.50	4.98	32.08	999.00	40.23	15.48	6.51	32.63	47.18	14.85	8.23	33.85	999.00	-1.80	999.00	-1.24	0.00
20 2	4 21	50.15	16.39	6.18	31.54	999.00	46.13	15.89	6.79	32.13	48.81	13.98	9.64	33.40	999.00	-1.86	999.00	-1.27	0.00
20 2		50.54	16.16	6.02	31.17	999.00	46.53	15.03	6.96	31.77	47.20	13.84	8.44	33.03	999.00	-1.87	999.00	-1.27	0.00
20 2		49.98	13.88	6.73	30.92	999.00	45.69	13.56	6.72	31.50	46.26	13.51	8.41	32.75	999.00	-1.80	999.00	-1.24	0.00
20 2		49.61	17.09	4.31	30.73	999.00	45.17	16.57	5.82	31.31	46.56	15.50	7.30	32.57	999.00	-1.85	999.00	-1.27	0.00
20 2		55.78	17.64	4.92	30.49	999.00	51.62	17.50	5.78	31.07	52.84	13.40	9.85	32.33	999.00		999.00	-1.27	0.00
20 2		57.19	18.18	6.03	30.01	999.00	51.77	17.48	6.65	30.62	52.53	13.53	10.46	31.90	999.00		999.00	-1.30	0.00
20 2		56.39	19.66	5.56	29.39	999.00	52.60	19.13	6.36	29.99	55.84	14.77	11.45	31.28	999.00	-1.88	999.00	-1.30	0.00
20 2		41.28	20.15	5.76	28.41	999.00	37.83	15.90	6.60	28.99	43.21	16.17	9.40	30.32	999.00	-1.90	999.00	-1.34	0.00
20 2		42.56	18.28	5.64	27.35	999.00	39.14	16.02	6.64	27.93	43.31	16.15	9.11	29.29	999.00	-1.98	999.00	-1.40	0.00
20 2	5 6	62.29	17.56	8.26	26.33	999.00	57.62	16.64	8.45	26.93	59.71	13.05	12.91	28.26	999.00	-1.90	999.00	-1.29	0.00
20 2	5 7	70.40	17.85	5.68	25.84	999.00	65.50	17.65	5.34	26.42	73.90	12.70	11.02	27.68	999.00	-1.81	999.00	-1.24	0.00
20 2	5 8	59.05	17.25	7.28	25.53	999.00	53.98	16.50	7.90	26.13	54.94	12.92	10.76	27.47	999.00	-2.00	999.00	-1.40	0.00
20 2	5 9	60.36	17.69	7.40	25.15	999.00	54.73	16.98	7.39	25.74	56.74	12.81	10.98	27.15	999.00	-2.01	999.00	-1.40	0.00
20 2	5 10	65.96	16.76	6.42	25.59	999.00	59.72	16.22	6.12	26.18	63.13	12.03	12.02	27.56	999.00	-2.04	999.00	-1.43	0.00
20 2	5 11	62.97	16.65	6.42	25.59	999.00	56.94	15.76	7.25	26.18	57.00	12.56	11.59	27.56	999.00	-2.16	999.00	-1.58	0.00
20 2		67.05	15.93	9.21	25.91	999.00	62.18	15.44	8.95	26.50	67.52	12.84	12.30	28.17	999.00	-2.20	999.00	-1.59	0.00
20 2		88.80	18.22	6.93	26.28	999.00	82.90	17.42	7.84	26.96	89.10	11.56	13.26	28.83	999.00	-2.67	999.00	-1.96	0.00
20 2		76.20	18.14	8.40	26.28	999.00	70.20	17.48	9.17	26.98	75.40	13.46	16.21	28.92	999.00		999.00	-1.74	0.00
20 2		80.60	18.75	6.74	26.45	999.00	74.10	17.10	6.86	27.14	78.60	12.75	12.13	28.88	999.00		999.00	-1.67	0.00
20 2		72.50	19.86	4.02	26.20	999.00	66.63	18.80	5.11	26.84	72.40	12.74	11.72	28.38	999.00		999.00	-1.50	0.00
			23.22						5.30			15.47	12.03				999.00		0.00
		68.41		5.09	25.95	999.00	62.25	22.51		26.55	64.27			27.98	999.00			-1.42	
20 2		71.90	20.93	4.72	25.95	999.00	66.68	19.95	5.72	26.55	70.40	14.08	10.80	27.98	999.00		999.00	-1.33	0.00
20 2		61.64	22.87	5.43	25.54	999.00	56.25	21.18	6.39	26.12	53.81	15.36	9.68	27.33	999.00		999.00	-1.22	0.00
20 2		54.87	26.28	4.78	24.96	999.00	50.49	24.98	5.71	25.55	47.21	19.72	8.83	26.84	999.00		999.00	-1.26	0.02
20 2		66.63	25.68	5.15	24.96	999.00	61.07	24.62	5.72	25.51	60.15	15.94	10.88	26.72	999.00		999.00	-1.15	0.04
20 2		73.00	28.62	3.22	25.75	999.00	66.96	27.65	4.66	26.34	66.23	18.98	9.60	27.46	999.00		999.00	-1.13	0.05
20 2		76.10	24.45	3.94	26.63	999.00	69.86	23.57	4.33	27.23	70.50	15.64	9.95	28.31	999.00		999.00	-1.05	0.00
20 2	5 24	49.13	18.19	5.70	27.30	999.00	43.47	16.96	6.18	27.89	42.71	16.59	9.02	29.11	999.00	-1.88	999.00	-1.31	0.00
20 2	6 1	34.46	20.92	4.64	27.30	999.00	31.80	16.56	6.09	27.89	33.38	16.79	9.15	29.11	999.00	-1.93	999.00	-1.36	0.01
20 2	6 2	40.96	18.61	6.02	24.89	999.00	37.53	16.47	7.28	25.48	40.82	17.00	10.01	26.78	999.00	-1.86	999.00	-1.26	0.00
20 2	6 3	39.52	17.76	5.45	25.13	999.00	36.07	14.81	6.86	25.71	39.62	15.77	9.41	26.94	999.00	-1.82	999.00	-1.24	0.00
20 2	6 4	44.12	15.87	6.37	25.02	999.00	40.03	15.68	6.84	25.64	42.79	16.20	9.17	26.87	999.00	-1.84	999.00	-1.21	0.00
20 2	6 5	53.47	15.30	6.87	24.99	999.00	47.82	16.13	7.06	25.59	45.74	14.33	9.00	26.80	999.00	-1.77	999.00	-1.21	0.00
20 2	6 6	50.12	13.39	5.80	25.09	999.00	45.04	14.60	6.39	25.63	45.06	13.66	8.75	26.87	999.00	-1.80	999.00	-1.26	0.00
20 2		55.96	12.85	7.88	24.94	999.00	49.52	13.74	7.90	25.44	47.01	12.62	9.83	26.72	999.00		999.00	-1.23	0.00
20 2		54.81	12.65	7.29	24.75	999.00	48.30	13.87	7.46	25.26	43.83	13.50	7.59	26.50	999.00		999.00	-1.26	0.00
20 2		53.83	11.17	6.49	24.87	999.00	46.02	11.94	6.65	25.60	43.08	11.66	8.74	26.83	999.00	-2.02	999.00	-1.22	0.00
20 2		46.91	10.35	6.82	25.67	999.00	39.78	10.13	6.71	26.33	38.54	10.32	8.98	27.52	999.00	-1.81	999.00	-1.21	0.00
						999.00			6.17										0.00
20 2		37.99	11.41	4.13			31.61	10.08		26.05	34.56	10.65	10.50		999.00		999.00	-1.24	
	6 12	38.37	12.06	4.53		999.00	33.58	10.68	6.76	25.88	34.41	12.27	11.17		999.00	-1.76		-1.22	0.00
20 2		61.20	11.89	7.11		999.00	52.07	12.83	7.61	26.01	48.96	10.88	9.87		999.00		999.00	-1.24	0.00
20 2		52.16	11.20	6.19		999.00	45.99	12.66	7.02	26.30	46.51	12.06	8.68		999.00		999.00	-1.21	0.00
20 2		42.84	11.74	6.49	26.10		36.75	11.15	7.87	26.69	39.54	11.32	10.01		999.00		999.00	-1.23	0.00
20 2			10.35	8.12		999.00	45.29	11.16	8.43	26.43	42.78	11.00	8.90		999.00		999.00	-1.20	0.00
20 2		39.98	10.17	4.51		999.00	34.76	9.21	6.17	26.34	36.45	10.60	8.88		999.00		999.00	-1.17	0.00
20 2	6 18	22.61	9.86	10.22	25.52	999.00	13.33	11.39	10.05	26.08	13.57	11.51	11.01	27.25	999.00	-1.77	999.00	-1.21	0.01
20 2	6 19	25.57	10.58	10.85	25.54	999.00	17.78	11.79	10.23	26.11	15.50	12.23	9.67	27.29	999.00	-1.74	999.00	-1.16	0.01
20 2	6 20	49.14	9.91	8.40	25.84	999.00	42.10	10.84	7.47	26.40	41.56	11.79	8.44	27.54	999.00	-1.69	999.00	-1.11	0.00

20 2 6 21 26 62	11 04 E O		00 20 00	11 20	7 10	26.60	20 12	10 00	10 64	27 72	000 00	1 (1	000 00	1 00	0 00
20 2 6 21 36.63 20 2 6 22 39.20	11.94 5.2 10.08 6.3			11.20 9.56	7.12 6.88	26.60 26.76	30.13 36.06	12.28 10.39	10.64 10.87	27.72	999.00		999.00	-1.09	0.00
20 2 6 22 39.20 20 2 6 23 34.45	10.08 6.3 11.05 8.3			10.93	9.07	26.76	23.93	11.23	11.93	27.78	999.00 999.00	-1.72 -1.78	999.00 999.00	-1.15 -1.21	0.00
20 2 6 24 34.11	10.54 8.6			10.93	9.44	26.54	31.22	10.98	11.75	27.70	999.00	-1.70	999.00	-1.17	0.00
20 2 7 1 42.29	12.18 5.8			11.65	5.29	26.54	40.91	12.85	9.00	27.72	999.00	-1.72	999.00	-1.17	0.00
20 2 7 1 42.29	10.56 8.3			10.33	8.28	26.42	38.95	10.42	10.86		999.00	-1.70	999.00	-1.14	0.00
20 2 7 3 28.98	9.29 11.6			10.33	11.60	26.38	25.63	9.77	12.32	27.53	999.00	-1.70	999.00	-1.14	0.00
20 2 7 4 36.27	11.99 5.6			11.52	5.76	26.41	33.51	11.75	10.21	27.57	999.00	-1.69	999.00	-1.13	0.00
20 2 7 5 16.81	11.32 11.5			12.48	12.14	26.35	10.99	11.34	11.40	27.54	999.00	-1.75	999.00	-1.16	0.00
20 2 7 6 25.30	8.85 14.4			9.23	14.22	999.00	12.13	9.55	11.96	27.49	999.00	-1.76	999.00	999.00	0.00
20 2 7 7 10.57	12.90 7.1			14.07	6.53	999.00	360.00	11.51	9.00	27.83	999.00	-1.62	999.00	-1.04	0.00
20 2 7 8 348.80	17.80 5.2			19.52	5.49		342.30	14.31	8.73	28.60	999.00	-1.52	999.00	-0.96	0.00
20 2 7 9 352.10	20.22 5.4			22.34	6.18		346.40	16.83	8.90	28.91	999.00	-1.52	999.00	-0.95	0.00
20 2 7 10 328.00	17.73 5.7			19.41	6.06		320.20	14.09	9.31	28.66	999.00	-1.65	999.00	-1.09	0.00
20 2 7 11 318.10	18.32 4.9			20.58	5.32	27.17	308.90	13.96	10.39	28.38	999.00	-1.82	999.00	-1.25	0.00
20 2 7 12 329.20	20.62 5.2			22.22	5.47		321.20	16.12	9.66	29.05	999.00	-2.15	999.00	-1.56	0.00
20 2 7 13 339.00	20.93 6.0			22.62	6.18		333.00	16.52	10.94	31.14	999.00	-2.90	999.00	-2.35	0.00
20 2 7 14 316.30	20.96 4.9			23.97	4.82		311.10	16.82	10.84	31.78	999.00	-2.67	999.00	-2.13	0.00
20 2 7 15 320.10	16.95 4.8			19.21	5.44		310.50	12.95	10.44	32.21	999.00	-3.02	999.00	-2.49	0.00
20 2 7 16 308.70	13.81 7.4	5 30.02 999.	00 304.90	14.03	8.04	30.56	301.60	9.42	12.94	32.33	999.00	-1.79	999.00	-1.25	0.00
20 2 7 17 304.60	14.56 6.4	30.78 999.	00 299.60	14.33	7.41	31.32	292.60	10.55	10.21	32.10	999.00	-0.39	999.00	0.15	0.00
20 2 7 18 291.30	13.93 6.93	3 31.06 999.	00 286.20	13.27	7.15	31.54	277.20	8.10	10.04	29.32	999.00	2.07	999.00	2.51	0.00
20 2 7 19 261.90	16.75 4.4	30.47 999.	00 255.90	15.57	5.57	30.77	252.20	9.54	9.40	28.07	999.00	1.49	999.00	1.83	0.00
20 2 7 20 255.70	16.09 4.4	3 29.15 999.	00 249.40	14.39	5.17	29.27	241.20	9.13	9.65	28.06	999.00	0.76	999.00	1.03	0.00
20 2 7 21 266.30	19.15 5.4	4 28.38 999.	00 262.90	17.92	6.17	28.83	260.70	11.51	10.48	28.45	999.00	-0.73	999.00	-0.22	0.00
20 2 7 22 258.30	15.67 4.6	9 27.21 999.	00 252.30	14.57	5.35	27.74	248.60	10.54	8.14	28.34	999.00	-1.17	999.00	-0.63	0.00
20 2 7 23 267.60	15.99 3.7	8 27.02 999.	00 258.20	14.40	4.67	27.35	249.80	7.95	8.17	27.62	999.00	-0.29	999.00	-0.06	0.00
20 2 7 24 262.40	16.24 3.7	3 26.62 999.	00 254.50	13.61	4.90	26.75	242.90	8.89	6.94	26.79	999.00	-0.36	999.00	-0.19	0.00
20 2 8 1 261.70	17.24 4.6	5 26.29 999.	00 255.90	14.26	5.68	26.54	253.40	7.04	9.44	26.52	999.00	-0.02	999.00	0.20	0.00
20 2 8 2 251.80	15.09 3.7	1 26.86 999.	00 246.80	13.27	4.00		237.90	8.15	8.31	26.95	999.00	-0.58	999.00	-0.21	0.00
20 2 8 3 248.90	16.15 3.3	3 25.88 999.	00 240.90	13.79	4.63	26.05	233.00	8.79	7.79	26.30	999.00	-0.73	999.00	-0.51	0.00
20 2 8 4 246.80	19.37 2.6			17.79	3.18		234.40	12.04	6.93	25.92	999.00	-0.75	999.00	-0.42	0.00
20 2 8 5 246.10	18.34 3.73			15.85	4.68		230.90	10.02	8.43	25.52	999.00	-0.76	999.00	-0.45	0.00
20 2 8 6 242.90	17.66 4.4			14.76	5.83		223.10	7.25	10.65	24.24	999.00	0.63	999.00	0.26	0.00
20 2 8 7 237.10	16.67 2.8			13.60	4.48		224.80	6.95	9.49	24.89	999.00	-0.21	999.00	-0.08	0.00
20 2 8 8 239.00	16.38 1.6			13.64	2.75		222.10	6.47	10.05	25.73	999.00	0.11	999.00	0.12	0.00
20 2 8 9 230.60	13.61 2.3			11.36	2.65		197.50	4.93	11.03	25.82	999.00	0.05	999.00	0.13	0.00
20 2 8 10 228.70	11.60 6.0			10.15	6.30		217.00	6.07	12.18	27.14	999.00	-2.08	999.00	-1.68	0.00
20 2 8 11 229.70	8.04 7.1			6.57	8.38		231.50	5.11	13.08	28.84	999.00	-2.29	999.00	-1.80	0.00
20 2 8 12 219.10	5.00 13.5			4.84	13.33		232.60	4.47	16.48	30.89	999.00	-2.81	999.00	-2.21	0.00
20 2 8 13 191.10	2.48 22.6			2.59	20.35		161.30	1.92	45.98	31.97	999.00	-2.86	999.00	-1.87	0.00
20 2 8 14 101.90 20 2 8 15 104.40	3.40 20.0			3.72	23.25	30.51	91.30	3.61	28.43	32.43	999.00	-2.94	999.00 999.00	-2.23	0.00
	5.39 7.78			5.35	8.07	29.11	89.30	4.81	12.28		999.00			-1.75	0.00
20 2 8 16 98.60	5.66 4.1			5.65	5.64	28.82	88.90				999.00		999.00	-1.29	0.00
20 2 8 17 107.90 20 2 8 18 103.40	7.21 3.4 7.78 4.0			6.99 7.56	4.53 4.52	28.82 29.05	95.50 90.50	4.33 4.13	12.72 15.77		999.00 999.00		999.00 999.00	-1.08 -1.01	0.00
20 2 8 19 134.00	4.29 5.7			4.58		29.03	92.30	1.73	19.55		999.00			-0.87	0.00
20 2 8 19 134.00	5.99 3.4			4.58	4.77 4.66		197.60	1.73	14.57		999.00		999.00 999.00	-0.87	0.00
20 2 8 20 222.60 20 2 8 21 233.80	7.07 4.9			6.24	5.73		220.30	2.89	14.57		999.00		999.00	-0.69	0.01
20 2 8 21 233.80	8.66 1.3			7.59	2.06		218.60	3.38	8.92		999.00		999.00	-0.32	0.00
20 2 8 23 234.00	8.16 4.63			7.18	3.35		210.20	2.50	10.64		999.00		999.00	0.10	0.00
20 2 8 24 230.00	10.30 1.7			9.66	1.97		196.10	3.19	8.23		999.00		999.00	0.74	0.00
20 2 0 24 230.00	10.00 1.7	J 2J.UU 999.	00 21/.40	٥.00	1.21	50.05	T > O • T O	J•±3	0.23	20.13	JJJ.00	0.50	JJJ.00	0./4	0.00

20	2 9 1	232.40	10.06	1.27	30.11	999.00	221.80	8.64	2.10	30.18	197.10	2.36	12.83	29.33	999.00	0.55	999.00	0.57	0.00
20	2 9 2	243.30	10.30	3.07	29.96	999.00	230.60	9.07	2.01	30.02	221.20	3.17	5.13	29.47	999.00	0.38	999.00	0.57	0.00
20	2 9 3	246.50	12.14	1.95	29.96	999.00	235.20	10.69	1.91	30.02	220.80	4.34	9.54	29.47	999.00	-0.14	999.00	0.16	0.00
20	2 9 4	243.00	11.96	3.51	29.46	999.00	232.70	10.43	4.45	29.78	216.60	4.77	10.99	29.91	999.00	-0.60	999.00	-0.28	0.00
20	2 9 5	245.80	12.82	2.41	29.45	999.00	236.50	10.92	3.36	29.72		5.15	9.84	29.98	999.00	-0.52	999.00	-0.26	0.00
20	2 9 6	255.30	11.60	3.03	29.33	999.00	247.40	10.00	3.73		232.90	5.64	7.54	30.28	999.00	-0.95	999.00	-0.56	0.00
20	2 9 7	252.00	15.05	4.16	29.23	999.00	245.50	13.32	4.45		236.50	8.48	7.01	30.07	999.00	-0.84	999.00	-0.38	0.00
20	2 9 8	256.10	11.52	4.15	28.05	999.00	250.30	9.65	5.06		247.50	5.63	7.68	28.90	999.00	-0.58	999.00	-0.10	0.00
		243.60				999.00	230.30	11.79			232.20	5.81	8.90		999.00		999.00		0.00
20			13.97	2.63	27.27				3.18					27.61		-1.01		-0.89	
20		230.20	11.51	4.48	27.03	999.00	220.80	9.30	7.71		216.90	5.91	9.96	29.14	999.00	-2.55	999.00	-2.50	0.00
20		193.30	8.16	7.15	27.48	999.00	187.30	7.15	9.12		191.60	5.45	15.87	30.81	999.00	-3.83	999.00	-2.24	0.00
20		192.00	10.81	5.53	29.33	999.00	186.80	10.54	7.18		185.60	7.19	14.41	32.99	999.00	-3.78	999.00	-2.51	0.00
20		192.50	14.94	5.66	30.50	999.00	188.10	13.87	6.53		190.00	8.85	11.74	33.11	999.00	-2.24	999.00	-1.48	0.00
20	2 9 14	187.80	14.62	6.49	31.12	999.00	182.60	13.45	7.42	31.81	183.80	7.76	14.78	33.12	999.00	-2.08	999.00	-1.37	0.00
20	2 9 15	185.60	17.66	5.76	31.57	999.00	180.60	16.35	7.17	32.15	181.90	8.89	14.69	33.19	999.00	-1.29	999.00	-0.75	0.00
20	2 9 16	179.70	19.06	4.59	32.09	999.00	174.00	17.64	5.45	32.62	177.00	9.40	14.17	33.33	999.00	-0.94	999.00	-0.44	0.00
20	2 9 17	171.70	19.83	5.11	31.97	999.00	165.90	17.68	6.44	32.50	167.50	10.21	14.05	32.97	999.00	-1.00	999.00	-0.45	0.00
20	2 9 18	175.50	26.02	4.66	31.16	999.00	169.40	24.29	5.30	31.70	169.70	12.67	13.40	32.10	999.00	-1.19	999.00	-0.61	0.00
20		165.40	20.44	5.84	30.41	999.00	159.90	18.22	7.05	31.03	161.80	10.26	13.84	31.74	999.00	-1.18	999.00	-0.57	0.00
20		194.30	21.98	5.38	32.15	999.00	189.70	20.50	6.13		191.50	12.25	11.07	32.53	999.00	-0.14	999.00	0.79	0.02
20	2 9 21	202.80	25.32	5.14	32.15	999.00	197.10	23.03	5.67	32.82	198.70	12.82	13.31	32.53	999.00	-0.62	999.00	0.51	0.01
20	2 9 22	216.50	23.46	5.35	34.52	999.00	212.10	20.79	5.95	35.51	213.10	11.03	12.64	34.96	999.00	-0.41	999.00	0.54	0.01
20	2 9 23	217.80	21.10	4.99	34.73	999.00	212.10	18.38	5.71	35.55		9.76	13.62	35.27	999.00	-0.56	999.00	0.19	0.00
		217.60	19.53		34.73		215.00	16.98	4.91	999.00	214.50		12.68	35.46	999.00	-0.53	999.00	999.00	0.00
20				4.31		999.00						8.41							
20	2 10 1		19.27	3.37	34.98	999.00	214.00	16.78	3.62	999.00	212.30	8.05	11.69	35.46	999.00	-0.46	999.00	0.12	0.00
20	2 10 2		16.09	2.56	35.43	999.00	235.90	13.19	3.68	35.86	230.80	6.00	7.88	35.60	999.00	0.01	999.00	0.37	0.01
20	2 10 3		12.78	3.11	35.62	999.00	240.90	10.32	4.08		227.40	4.38	10.81	35.50	999.00	0.12	999.00	0.44	0.03
20	2 10 4	255.60	14.77	3.48	35.80	999.00	250.10	12.23	3.52	36.10	241.40	4.99	6.16	35.47	999.00	0.19	999.00	0.59	0.03
20	2 10 5	281.50	15.78	3.96	35.80	999.00	272.70	12.83	4.97		264.00	6.54	10.03	35.47	999.00	-0.75	999.00	-0.31	0.00
20	2 10 6	284.60	12.24	2.34	35.10	999.00	268.60	10.07	4.49	35.42	234.60	5.07	8.66	35.47	999.00	-0.10	999.00	0.20	0.00
20	2 10 7	297.90	12.26	1.53	35.05	999.00	284.50	9.74	2.50	35.34	255.00	3.77	9.33	34.99	999.00	-0.07	999.00	0.22	0.00
20	2 10 8	303.80	14.24	3.63	34.91	999.00	294.40	11.69	3.60	35.30	265.80	5.16	9.61	35.04	999.00	-0.19	999.00	0.19	0.00
20	2 10 9	322.50	14.41	2.37	35.01	999.00	314.40	13.41	2.97	35.49	298.70	5.84	8.41	35.18	999.00	-0.56	999.00	0.03	0.00
20	2 10 10	331.10	12.14	3.21	34.59	999.00	317.10	11.20	4.52	35.09	304.50	5.76	11.07	35.49	999.00	-0.89	999.00	-0.55	0.00
20	2 10 11	325.30	10.78	3.54	34.52	999.00	317.30	10.80	3.32	34.95	306.40	6.23	10.42	35.60	999.00	-1.30	999.00	-0.83	0.00
20	2 10 12	353.40	12.60	3.91	34.39	999.00	340.40	12.04	5.06	34.78	325.70	7.71	9.10	35.66	999.00	-1.21	999.00	-0.93	0.00
20	2 10 13	42.46	9.95	4.56	34.01	999.00	34.37	8.42	5.62	34.36	32.09	8.56	10.31	35.30	999.00	-1.40	999.00	-0.89	0.00
20		48.28	10.93	9.43	32.25	999.00	45.93	9.59	9.71	32.69	42.36	10.15	8.83	33.53	999.00	-1.26	999.00	-0.83	0.00
	2 10 15	52.15	11.66	8.10	31.72	999.00	48.58	9.93	8.70	32.09	44.85	9.30	11.01	32.65	999.00	-0.83	999.00	-0.46	0.00
	2 10 16	58.80	12.99	5.41	31.24	999.00	53.78	12.30	6.21	31.59	57.97	8.61	10.26	32.13	999.00	-0.91	999.00	-0.57	0.00
20		65.31	10.07	4.87	30.85	999.00	59.70	9.57	4.98	31.28	58.24	6.74	10.62	31.94	999.00	-1.17	999.00	-0.72	0.00
		70.40	8.36	3.45	30.03	999.00	65.85	7.17	5.70	31.34	71.30	4.19	13.16	32.35	999.00	-1.57	999.00	-1.05	0.00
20																			
	2 10 19	75.30	8.36	2.45		999.00	69.70	7.24	3.87	31.59	71.40	3.90	10.16		999.00		999.00	-0.97	0.00
	2 10 20	80.60	4.38	9.55		999.00	68.94	4.32	7.91	31.59	60.31	2.85	13.76		999.00		999.00	-0.99	0.00
	2 10 21	68.05	3.51	7.63		999.00	63.01	3.78	5.40	31.82	65.42	3.23	8.69		999.00		999.00	-0.78	0.00
	2 10 22	42.31	3.10	15.58		999.00	30.38	2.99	13.87	32.01	8.87	3.31	12.92		999.00		999.00	-1.04	0.00
	2 10 23	44.38	3.39	13.75			32.92	3.40	13.66	31.76	25.65	3.99	15.93		999.00		999.00	-1.08	0.00
	2 10 24	30.99	4.38	16.93	31.02	999.00	20.33	4.13	12.06	31.61	11.36	4.04	16.29		999.00		999.00	-0.97	0.00
	2 11 1		4.12	9.30	31.06	999.00	87.50	4.07	8.74		115.10	2.52	17.92	32.56	999.00		999.00	-0.71	0.00
20	2 11 2	290.50	2.93	5.80	30.98	999.00	293.40	3.48	4.43	31.55	274.10	3.16	7.95		999.00		999.00	-0.44	0.00
20	2 11 3	325.90	10.76	2.18	30.97	999.00	321.00	10.35	3.13	31.51	315.80	5.62	9.36	32.00	999.00	-1.19	999.00	-0.72	0.00
20	2 11 4	336.80	13.33	2.75	30.48	999.00	331.40	13.00	3.42	31.07	326.10	8.07	10.35	32.05	999.00	-1.61	999.00	-0.99	0.00

20 2 11 5 320.60	11.55	4.48		999.00		11.10	4.72		315.30	7.65	9.51		999.00		999.00	-1.05	0.00
20 2 11 6 319.00	10.57	6.44	29.66		316.20	10.26	7.17		313.90	6.74	11.33	31.27	999.00	-1.63	999.00	-1.01	0.00
20 2 11 7 316.40	9.41	6.72	29.34	999.00	312.00	9.03	8.03	30.01	310.60	5.47	13.71	31.03	999.00	-1.72	999.00	-1.03	0.00
20 2 11 8 308.50	6.89	4.76	29.07	999.00	302.70	6.57	5.75	29.80	289.60	4.40	9.70	30.77	999.00	-1.63	999.00	-0.89	0.00
20 2 11 9 286.50	6.42	5.02	29.07	999.00	276.60	6.01	5.96	29.76	261.50	3.99	10.63	30.75	999.00	-1.82	999.00	-1.14	0.00
20 2 11 10 257.40	6.88	9.11	29.45	999.00	248.40	6.84	7.55	30.04	240.90	5.83	9.96	31.43	999.00	-2.00	999.00	-1.41	0.00
20 2 11 11 271.10	8.62	9.07	30.37		264.10	8.46	9.70		258.40	6.81	15.95	32.63	999.00	-2.31	999.00	-1.69	0.00
20 2 11 12 258.10	10.39	7.32	31.14		252.20	10.22	8.04		242.50	8.86	11.89	33.52	999.00	-2.62	999.00	-1.95	0.00
20 2 11 13 259.60	12.08	7.58	32.42		253.60	11.50	7.80		245.80	9.14	10.91	35.17	999.00	-2.89	999.00	-2.18	0.00
20 2 11 14 258.10	17.59	6.11	34.30		253.90	16.90	6.84		250.30	12.91	10.22	37.03	999.00	-2.68	999.00	-2.17	0.00
	23.60	5.29	35.93		260.50			36.51		16.00	10.22	38.25	999.00	-2.02	999.00	-1.45	0.00
						22.10	7.67										
20 2 11 16 270.70	23.22	6.74	35.82		265.80	21.74	7.49		263.90	15.99	11.28	37.84	999.00	-1.99	999.00	-1.43	0.00
20 2 11 17 281.00	20.69	6.76	35.30		276.70	19.74	7.61		271.20	13.39	11.15	37.20	999.00	-1.87	999.00	-1.31	0.00
20 2 11 18 270.50	20.53	6.83	35.30		265.80	18.47	7.89		263.60	12.61	11.75	37.20	999.00	-1.48	999.00	-0.96	0.00
20 2 11 19 274.50	21.41	6.65	34.28		269.60	19.77	7.02		264.80	12.70	10.01	35.63	999.00	-1.35	999.00	-0.85	0.00
20 2 11 20 297.10	26.92	4.78	33.48	999.00	293.00	25.05	5.08	33.96	288.80	17.68	9.67	34.72	999.00	-1.12	999.00	-0.65	0.00
20 2 11 21 292.90	19.87	5.13	31.06	999.00	287.90	18.98	5.57	31.56	281.00	12.44	9.50	32.28	999.00	-1.07	999.00	-0.57	0.00
20 2 11 22 276.00	19.01	4.47	29.80	999.00	271.00	17.01	5.87	30.26	264.90	10.80	10.17	30.93	999.00	-1.15	999.00	-0.69	0.00
20 2 11 23 284.70	18.26	4.75	28.88	999.00	279.30	16.81	5.60	29.33	271.90	9.96	9.13	29.92	999.00	-0.99	999.00	-0.55	0.00
20 2 11 24 288.20	16.53	4.74	28.18	999.00	282.80	15.45	4.99	28.62	274.80	8.70	9.10	28.93	999.00	-0.80	999.00	-0.38	0.00
20 2 12 1 262.40	12.90	5.33	27.59	999.00	254.00	10.97	6.20	28.04	250.50	7.14	8.92	28.50	999.00	-1.10	999.00	-0.64	0.00
20 2 12 2 266.40	12.89	4.83	27.31	999.00	256.50	10.88	5.80	27.68	246.40	7.06	8.15	28.37	999.00	-0.95	999.00	-0.60	0.00
20 2 12 3 261.90	11.91	4.95	27.41		252.60	9.88	5.98		250.50	5.14	7.23	27.86	999.00	-0.21	999.00	-0.09	0.00
20 2 12 4 266.00	12.39	2.61	27.50		251.20	9.55	3.89		219.70	4.05	10.47	27.50	999.00	0.47	999.00	0.11	0.00
20 2 12 5 252.80	10.87	2.57	27.74		238.40	8.44	2.88		191.80	3.22	9.02	27.15	999.00	0.98	999.00	0.45	0.00
20 2 12 6 238.00	10.43	3.80	27.51		220.60	8.61	3.27		196.60	3.18	7.91	27.04	999.00	0.13	999.00	0.11	0.00
20 2 12 7 226.30	12.63	2.57	27.50	999.00	209.50	12.04	3.07		191.80	4.94	8.34	27.00	999.00	0.69	999.00	0.56	0.00
20 2 12 7 220.30	16.02	2.17	27.27		211.10	13.76	2.49		201.30	5.88	10.78	27.03	999.00	0.17	999.00	0.12	0.00
20 2 12 9 223.90	13.15	2.72	27.27		210.20	10.53	3.58		201.50	4.86	11.54	27.53	999.00	-0.21	999.00	-0.56	0.00
			27.86		212.00				213.10		13.39			-1.99			0.00
	10.70	6.15				9.90	6.57			6.60		29.72	999.00		999.00	-1.38	
20 2 12 11 219.40	11.06	6.84	29.17		215.10	10.60	7.81		220.50	8.01	14.42	31.25	999.00	-2.17	999.00	-1.58	0.00
20 2 12 12 219.60	10.55	7.22	29.90		214.00	9.98	9.06		217.20	7.56	14.19	32.07	999.00	-2.27	999.00	-1.66	0.00
20 2 12 13 216.50	13.47	5.66	30.69		210.80	12.86	6.16		210.40	8.74	13.78	32.88	999.00	-2.16	999.00	-1.59	0.00
20 2 12 14 213.60	12.23	5.04	31.49		209.10	11.63	6.69		207.10	7.75	13.50	33.63	999.00	-2.16	999.00	-1.57	0.00
20 2 12 15 200.10	13.97	4.78	32.18	999.00		13.42	5.49		193.40	8.51	12.61	34.28	999.00	-1.99	999.00	-1.28	0.00
20 2 12 16 200.50	12.17	4.69	32.64	999.00		11.59	5.10		195.40	7.70	12.12	34.60	999.00	-1.88	999.00	-1.23	0.00
20 2 12 17 204.50	12.20	3.14	32.64	999.00	199.80	11.68	3.69		200.20	6.73	12.76	34.60	999.00	-1.81	999.00	-1.20	0.00
20 2 12 18 180.20	9.22	3.27	32.58	999.00	173.70	8.55	3.40	33.09	176.50	3.95	12.41	34.06	999.00	-1.43	999.00	-0.95	0.00
20 2 12 19 187.00	9.75	3.18	32.57	999.00	180.40	8.56	3.62	32.99	177.90	3.29	16.45	33.71	999.00	-1.07	999.00	-0.67	0.00
20 2 12 20 169.40	9.95	3.92	32.60	999.00	156.10	8.78	4.41	32.97	146.30	5.27	8.79	33.64	999.00	-0.99	999.00	-0.65	0.00
20 2 12 21 178.60	11.07	2.58	30.32	999.00	171.80	9.38	3.22	30.78	171.70	4.39	13.00	31.73	999.00	-1.35	999.00	-0.92	0.00
20 2 12 22 217.50	1.95	37.21	29.82	999.00	61.62	1.17	86.90	30.14	13.41	2.16	22.38	30.93	999.00	-1.13	999.00	-0.77	0.00
20 2 12 23 356.90	13.07	3.55	29.68	999.00		12.59	4.45	30.12	1.08	8.84	9.04	30.88	999.00		999.00	-0.83	0.00
20 2 12 24 355.50	16.18			999.00		15.21	5.65			11.03			999.00		999.00	-1.13	0.00
20 2 13 1 9.44	15.03	4.72		999.00	4.56	13.99	4.41	29.99	5.41	9.99	7.77		999.00		999.00	-1.05	0.00
20 2 13 1 3.44	17.06	2.76		999.00		16.78	3.25		357.30	13.09	7.66		999.00		999.00	-1.11	0.00
20 2 13 2 4.33	18.09	2.35			354.70	17.45	3.09		353.30	13.38	7.02		999.00		999.00	-1.07	0.00
20 2 13 3 339.70		11.98		999.00	16.92	9.23	11.75	29.50	16.93	9.08	10.45		999.00		999.00	-1.07	0.00
				999.00			8.23				9.32		999.00		999.00	-1.13 -1.12	
	12.64	6.86			1.81	11.57			356.00	9.10							0.00
20 2 13 6 9.46	12.26	7.91		999.00	2.51	11.37	6.92		359.80	9.34	8.42		999.00		999.00	-1.09	0.00
20 2 13 7 358.30	12.37	3.67		999.00		12.08		29.54		8.86	9.55		999.00		999.00	-0.97	0.00
20 2 13 8 347.70	7.93	3.12	29.02	999.00	343.50	7.27	6.61	∠9.6U	344.30	4.20	15.15	30.56	999.00	-1.54	999.00	-0.96	0.00

00 0 10 0 000 50	6 07 5 50	00.05	000 00 0	06.00	F 07	0 10	00 60	050 00	0 07	10 77	20.66	000 00	1 55	000 00	1 0 4	0 00
20 2 13 9 309.50	6.07 5.52		999.00 2		5.07	9.10		258.90	2.87	12.77		999.00		999.00	-1.04	0.00
20 2 13 10 294.20	11.24 2.84				10.68	4.42		269.00	6.72	9.76	30.67	999.00	-1.43	999.00	-1.04	0.00
20 2 13 11 262.30	9.57 4.51			56.10	8.91	5.95		247.40	7.36	8.78	31.05	999.00		999.00	-1.21	0.00
20 2 13 12 259.80	12.66 5.47				11.51	6.74		251.90	9.29	10.25	31.47	999.00	-1.94		-1.35	0.00
20 2 13 13 253.80	13.70 5.71				13.37	6.84		246.40	10.49	11.12	32.24	999.00	-1.93	999.00	-1.37	0.00
20 2 13 14 247.30 20 2 13 15 253.80	17.21 3.62		999.00 2		16.41	4.18 4.12		236.70 239.30	12.29	7.48 8.07	32.24	999.00	-1.79	999.00	-1.20	0.00
	14.68 4.54 21.99 3.46				14.11 21.00	4.12		351.90	10.37 16.29	7.92	32.93 31.14	999.00 999.00	-1.57 -1.96	999.00 999.00	-1.04 -1.35	0.00
20 2 13 16 357.50 20 2 13 17 321.50	21.99 3.46 18.58 4.54				18.27	4.53		311.20	12.90	11.10	28.57		-1.90	999.00	-1.33	0.00
20 2 13 17 321.30	17.33 7.34				16.63	7.22		322.50	12.70	10.42	27.19	999.00	-1.72	999.00	-1.15	0.00
20 2 13 19 339.80	17.26 7.39				16.49	7.78		333.20	12.70	11.64	26.03	999.00	-1.72	999.00	-1.13	0.00
20 2 13 19 339.00	18.29 4.95		999.00 3		17.86	5.65		320.30	12.14	11.71	24.86	999.00	-1.74	999.00	-1.18	0.00
20 2 13 20 331.90	19.29 5.40				18.35	6.39		327.90	13.37	12.47	23.80	999.00	-1.74	999.00	-1.20	0.00
20 2 13 22 330.30	16.08 6.95				15.29	7.09		321.70	11.23	11.09	22.71	999.00	-1.72	999.00	-1.17	0.00
20 2 13 22 330.30	20.90 4.14				20.85	4.47		315.40	14.68	8.86	21.52	999.00	-1.70	999.00	-1.14	0.00
20 2 13 24 337.10	20.61 5.44				19.72	6.03		328.80	14.00	11.23	20.52	999.00	-1.75	999.00	-1.19	0.00
20 2 14 1 336.30	18.22 6.05				17.47	6.01		330.50	12.41	11.23	20.52	999.00	-1.79	999.00	-1.25	0.00
20 2 14 2 341.90	21.12 6.17				20.24	6.68		337.70	14.94	9.85	18.50	999.00	-1.88	999.00	-1.33	0.00
20 2 14 3 331.10	23.96 5.15				22.94	5.67		320.70	15.95	10.46	15.70	999.00	-1.82	999.00	-1.25	0.00
20 2 14 4 999.00	999.00 999.00				99.00	999.00		999.00	999.00	999.00	15.24	999.00	999.00	999.00	-1.05	0.00
20 2 14 5 351.90	26.61 4.69				25.09	5.39		346.50	17.58	8.64	13.13	999.00	-1.83	999.00	-1.28	0.00
20 2 14 6 351.70	23.24 5.59				22.17	6.20		348.00	16.42	8.56	13.39	999.00	-1.82	999.00	-1.27	0.00
20 2 14 7 351.60	22.62 5.68		999.00 3		21.93	6.51		343.80	16.06	8.73	13.27	999.00	-1.72	999.00	-1.18	0.00
20 2 14 8 354.90	21.64 6.36				20.55	6.96		350.00	15.60	10.39	13.68	999.00	-1.85	999.00	-1.27	0.00
20 2 14 9 346.30	16.89 9.73				16.35	10.28		336.50	11.76	13.99	14.22	999.00	-2.25	999.00	-1.69	0.00
20 2 14 10 332.00	12.87 7.33				12.36	7.45		318.30	9.98	12.70	14.16	999.00	-2.73	999.00	-2.18	0.00
20 2 14 11 331.50	10.66 9.61				10.60	9.69		329.00	8.18	13.82	14.26	999.00	-3.07	999.00	-2.53	0.00
20 2 14 12 319.70	9.51 12.73		999.00 3	14.10	9.52	13.64		307.10	7.48	23.06	15.50	999.00	-3.64	999.00	-3.07	0.00
20 2 14 13 314.40	9.80 10.14	12.49	999.00 3	08.90	9.59	10.70	13.06	299.60	7.27	17.53	16.15	999.00	-3.77	999.00	-3.25	0.00
20 2 14 14 323.40	6.76 12.55	13.28	999.00 3	21.40	6.80	14.78	13.78	318.00	5.35	24.03	17.01	999.00	-3.76	999.00	-3.32	0.00
20 2 14 15 221.50	6.86 19.78	13.28	999.00 2	11.40	6.25	24.03	13.78	222.30	5.09	56.71	17.01	999.00	-3.05	999.00	-2.37	0.00
20 2 14 16 199.40	8.59 10.73	14.83	999.00 1	95.50	8.49	9.43	15.53	196.90	7.01	17.13	17.46	999.00	-2.44	999.00	-1.47	0.00
20 2 14 17 218.50	9.94 8.16	15.42	999.00 2	13.40	9.45	9.96	16.15	213.70	6.77	16.14	17.82	999.00	-2.33	999.00	-1.59	0.00
20 2 14 18 227.00	12.22 3.41	15.71	999.00 2	20.90	11.40	5.12	16.30	218.80	7.49	11.02	17.83	999.00	-1.90	999.00	-1.35	0.00
20 2 14 19 220.20	13.75 2.20	15.30	999.00 2	12.70	12.46	2.77		208.20	6.22	10.30	16.73	999.00	-1.09	999.00	-0.66	0.00
20 2 14 20 216.70	14.03 3.20	14.50	999.00 2	07.50	12.37	3.92	14.84	199.30	5.64	11.61	15.49	999.00	-0.76	999.00	-0.54	0.00
20 2 14 21 210.10	14.49 1.94				11.86	3.05		193.00	5.28	10.68	14.42	999.00	-0.29	999.00	-0.47	0.00
20 2 14 22 212.10	17.11 2.24				14.08	3.37		204.90	6.50	11.31	13.86	999.00	0.05	999.00	-0.26	0.00
20 2 14 23 210.10	13.21 1.51		999.00 2	06.50	10.82	2.69		205.30	4.95	11.04	13.40	999.00	-0.28	999.00	-0.37	0.00
20 2 14 24 216.60	13.35 1.80				12.30	2.37		210.90	5.26	11.84	12.44	999.00	-0.24	999.00	-0.04	0.00
20 2 15 1 223.10	15.31 2.72				11.89	3.75		199.00	4.43	12.93	11.69	999.00	0.87	999.00	0.19	0.00
20 2 15 2 221.20	15.10 1.75				11.67	2.53		198.50	4.71	999.00	11.37	999.00	1.39	999.00	0.39	0.00
20 2 15 3 191.20	16.50 3.35		999.00 1		13.65	4.07		185.50	5.91	13.60		999.00		999.00	-0.35	0.00
			999.00 1		12.90		10.83			12.39				999.00	-0.26	0.00
20 2 15 5 195.00	18.52 1.77		999.00 1		14.03		11.08				11.07			999.00	0.28	0.00
20 2 15 6 192.90	21.35 3.38		999.00 1		17.20		11.73		6.89	13.58		999.00		999.00	-0.33	0.00
20 2 15 7 199.60	18.13 3.75		999.00 1		14.68		12.00		6.22	12.55		999.00		999.00	-0.33	0.00
20 2 15 8 193.50	20.17 3.49		999.00 1		16.52		12.00		7.08	12.29		999.00		999.00	-0.38	0.00
20 2 15 9 196.00	18.14 4.99		999.00 1		15.56		12.77		9.04	11.33		999.00		999.00	-0.98	0.00
20 2 15 10 194.60	21.04 5.28		999.00 1		19.07		15.14		12.58	11.25		999.00		999.00	-1.34	0.00
20 2 15 11 198.40	21.85 6.16		999.00 1		20.26		17.24		13.50	11.17		999.00		999.00	-1.48	0.00
20 2 15 12 212.60	20.34 5.29	19.24	999.00 2	06.20	19.28	5.88	19.88	206.30	11.63	12.96	21.69	999.00	-2.64	999.00	-2.05	0.00

20	2 15 13		22.70	7.49		999.00		21.22	8.19		201.40	12.94	12.66		999.00		999.00	-1.69	0.00
20	2 15 14	205.70	22.73	4.45	22.81	999.00	200.00	21.43	5.31	23.47	200.30	13.43	11.62	24.92	999.00	-1.95	999.00	-1.35	0.00
20	2 15 15	199.30	19.96	5.72	25.05	999.00	194.10	17.96	6.95	25.74	198.20	11.74	13.07	27.25	999.00	-2.40	999.00	-1.68	0.00
20	2 15 16	199.60	20.53	4.72	27.22	999.00	193.50	19.20	4.98	27.92	192.60	11.16	12.48	29.26	999.00	-1.83	999.00	-1.19	0.00
20	2 15 17	999.00	999.00	999.00	28.03	999.00	999.00	999.00	999.00	28.65	999.00	999.00	999.00	29.80	999.00	999.00	999.00	999.00	0.00
20	2 15 18	201.00	24.67	4.65	30.75	999.00	194.80	22.64	5.01	31.18	195.00	12.98	11.73	32.02	999.00	-1.21	999.00	-0.79	0.00
20	2 15 19	207.40	27.06	4.55	32.08	999.00	202.60	24.42	5.09	32.49	203.30	13.02	12.40	33.22	999.00	-1.12	999.00	-0.71	0.00
20	2 15 20	212.70	25.84	4.95	33.29	999.00	207.60	22.76	5.55	33.66	206.90	11.66	12.70	34.26	999.00	-0.89	999.00	-0.54	0.00
20	2 15 21		23.27	5.22	34.28	999.00	219.20	20.50	6.33	34.65	218.90	11.33	10.93	35.19	999.00	-0.82		-0.48	0.00
	2 15 21		21.58	5.31	34.39	999.00	224.90	18.66	5.34		219.50	10.20	9.59	35.19	999.00		999.00	-0.25	0.00
20										34.68						-0.49			
20	2 15 23	237.20	21.43	3.99	34.66	999.00	228.70	18.75	4.59	34.90	220.30	11.02	7.93	35.17	999.00	-0.51		-0.28	0.00
20	2 15 24	247.30	20.79	3.60	34.06	999.00	242.20	19.12	3.66	34.46	235.40	12.83	7.28	34.97	999.00	-0.91	999.00	-0.51	0.00
20	2 16 1		23.69	3.90	34.85	999.00	244.60	21.39	3.97	35.22	241.20	14.55	7.67	35.59	999.00	-0.80	999.00	-0.40	0.00
20	2 16 2	250.40	20.21	4.08	35.08	999.00	243.90	18.33	3.80	35.49	237.00	12.44	7.15	35.91	999.00	-0.78	999.00	-0.38	0.00
20	2 16 3	254.00	18.57	4.43	35.08	999.00	247.70	16.98	4.82	35.49	240.10	10.89	8.32	35.91	999.00	-0.92	999.00	-0.50	0.00
20	2 16 4	254.50	16.50	3.65	34.53	999.00	247.60	15.25	3.43	34.97	239.50	9.48	7.22	35.49	999.00	-0.71	999.00	-0.26	0.00
20	2 16 5	265.50	15.42	2.51	33.79	999.00	256.10	12.72	2.72	34.10	238.80	5.64	4.49	33.81	999.00	0.44	999.00	0.66	0.00
20	2 16 6	275.90	15.11	2.41	33.79	999.00	264.00	13.51	2.37	34.10	237.70	5.93	4.95	33.81	999.00	0.83	999.00	1.02	0.00
20	2 16 7	260.70	13.86	2.07	31.89	999.00	249.30	11.63	2.27	31.98	222.40	4.61	6.72	30.93	999.00	0.94	999.00	1.03	0.00
20	2 16 8	256.00	14.72	2.39	31.16	999.00	246.30	12.13	2.49	31.22	222.30	4.30	7.86	30.11	999.00	0.92	999.00	0.86	0.00
20	2 16 9	270.90	11.62	3.32	31.15	999.00	259.10	9.99	3.89	31.15	235.10	3.43	11.20	30.49	999.00	0.09	999.00	0.30	0.00
20	2 16 10	289.40	9.42	6.57	30.61	999.00	286.10	8.27	7.98	30.92	285.30	6.74	11.50	32.24	999.00	-2.43	999.00	-1.83	0.00
20	2 16 11		7.77	9.24	30.99	999.00	272.60	7.45	9.98	31.56	271.00	7.04	16.19	33.33	999.00	-2.48	999.00	-1.89	0.00
20	2 16 12	261.40	10.66	8.32	32.25	999.00	256.40	10.15	9.16	32.81	245.20	8.29	13.76	34.79	999.00	-2.48	999.00	-1.91	0.00
20	2 16 12	260.60	11.13	5.68	33.31	999.00	256.90	11.08	6.11	33.82	250.10	9.65	9.70	35.85	999.00	-2.55	999.00	-2.05	0.00
20	2 16 14	257.90	13.52	8.04	34.48	999.00	251.40	13.37	7.25	35.00	242.20	10.50	10.03	37.10	999.00	-2.48	999.00	-2.00	0.00
20	2 16 15	262.60	14.11	4.47	35.34	999.00	257.50	13.49	5.40	35.81	247.50	11.20	11.25	37.66	999.00	-2.43	999.00	-1.99	0.00
20	2 16 16	252.20	11.73	4.82	35.89	999.00	245.00	11.62	5.26	36.44	237.20	8.99	8.55	38.38	999.00	-2.23	999.00	-1.67	0.00
20	2 16 17	245.10	10.39	3.92	36.51	999.00	238.50	10.40	4.16	37.10	233.10	7.32	8.72	38.52	999.00		999.00	-1.32	0.00
20	2 16 18	246.40	11.18	2.60	36.47	999.00	241.30	10.69	2.22		234.50	7.31	4.95	37.69	999.00	-0.84		-0.33	0.00
20	2 16 19	257.60	13.72	1.99	36.47	999.00	251.90	12.36	2.65		245.00	6.03	7.03	37.69	999.00	-0.21	999.00	0.20	0.00
20	2 16 20	257.60	13.72	1.99	36.47	999.00	251.90	12.36	2.65	37.01	245.00	6.03	7.03	37.69	999.00	-0.21	999.00	0.20	0.00
20	2 16 21	257.60	13.72	1.99	36.47	999.00	251.90	12.36	2.65	37.01	245.00	6.03	7.03	37.69	999.00	-0.21	999.00	0.20	0.00
20	2 16 22	257.60	13.72	1.99	36.15	999.00	251.90	12.36	2.65	36.56	245.00	6.03	7.03	36.36	999.00	-0.21	999.00	0.20	0.00
20	2 16 23	277.50	17.78	0.90	35.39	999.00	258.90	15.18	1.15	33.51	233.50	5.41	4.92	31.89	999.00	4.20	999.00	1.79	0.00
20	2 16 24	287.40	16.91	0.73	35.30	999.00	269.30	13.60	1.01	33.44	234.90	4.82	3.30	31.21	999.00	3.94	999.00	2.62	0.00
20	2 17 1	296.60	15.06	1.82	34.78	999.00	274.40	12.24	3.59	33.10	225.40	3.58	7.80	30.87	999.00	3.87	999.00	1.99	0.00
20	2 17 2	334.00	12.11	2.48	33.32	999.00	317.00	9.45	3.32	32.50	182.70	1.93	20.54	30.30	999.00	1.82	999.00	1.74	0.00
20	2 17 3	5.26	13.95	2.60	31.81	999.00	353.90	11.41	4.22	31.70	315.60	3.24	29.70	30.46	999.00	1.44	999.00	1.51	0.00
20	2 17 4	27.37	10.68	9.71	30.84	999.00	23.26	8.68	10.87	31.28	24.47	7.08	11.69	30.75	999.00	-1.40	999.00	-0.88	0.00
20	2 17 5	51.36	9.19	7.95	29.75	999.00	47.84	9.27	7.06	30.27	50.91	7.54	12.48	31.13	999.00	-1.47	999.00	-0.92	0.00
20	2 17 6	77.50	9.90	5.10	29.08	999.00	70.80	9.45	5.23	29.61	76.30	5.90	9.06	30.34	999.00	-1.03	999.00	-0.56	0.00
	2 17 7	82.60	10.14	2.70	29.00	999.00	75.10	10.18	2.34	29.50	75.80	6.74	7.83	29.84	999.00		999.00	-0.47	0.00
	2 17 8		13.12	3.50		999.00	75.30	12.89	4.17	29.62	80.00	7.15	10.19		999.00		999.00	-0.62	0.00
	2 17 9		999.00	999.00		999.00	999.00	999.00	999.00	29.49	999.00	999.00	999.00		999.00		999.00	999.00	0.00
	2 17 10	95.00	11.60	4.47		999.00	88.70	10.87	5.74	29.93	88.60	6.93	14.37		999.00		999.00	-1.50	0.00
	2 17 11		13.88	5.11		999.00	96.50	13.56	5.25	30.88	100.50	9.05	15.25		999.00		999.00	-2.18	0.00
	2 17 12		18.58	3.85		999.00	96.60	18.23	4.72	31.28	99.50	10.98	13.65		999.00		999.00	-2.34	0.00
	2 17 13	95.10	17.07	3.21		999.00	87.20	16.88	3.47	31.28	86.40	11.85	12.19		999.00	-2.80	999.00	-2.14	0.00
	2 17 14	95.00	20.79	3.24		999.00	87.90	19.83	3.95	31.05	90.80	12.91	11.04	32.94	999.00	-2.43	999.00	-1.80	0.00
20	2 17 15	97.00	20.72	3.48	33.81	999.00	90.00	20.03	3.83	33.60	92.10	13.70	999.00	33.00	999.00	2.41	999.00	1.79	0.00
20	2 17 16	999.00	999.00	999.00	35.44	999.00	999.00	999.00	999.00	34.82	999.00	999.00	999.00	33.03	999.00	999.00	999.00	-1.38	0.00

20	2 17 17	92.70	22.18	2.65		999.00	87.20	20.56	3.46	31.85	89.90	12.43	9.92		999.00		999.00	-1.15	0.00
20	2 17 18	92.60	18.28	3.09	31.51	999.00	86.60	16.90	3.71	32.01	90.10	9.87	10.66	33.10	999.00	-1.54	999.00	-1.01	0.00
20	2 17 19	96.90	22.48	4.45	31.76	999.00	90.90	20.53	5.36	32.21	92.70	11.30	12.73	33.18	999.00	-1.46	999.00	-0.97	0.00
20	2 17 20	107.10	19.38	5.39	32.04	999.00	100.80	17.52	6.62	32.50	113.70	8.17	16.10	33.46	999.00	-1.35	999.00	-0.93	0.00
20	2 17 21	101.70	22.88	4.02	32.82	999.00	94.50	19.97	4.90	33.00	98.00	9.73	14.34	33.79	999.00	-1.12	999.00	-0.81	0.00
20			27.64	2.28	34.48	999.00	102.80	23.71	4.17	34.20	110.70	10.31	14.05	34.60	999.00	-0.30	999.00	-0.41	0.00
20			22.51	4.75	34.31	999.00	99.60	20.12	5.33		101.50	8.91	13.69	34.94	999.00	-0.89	999.00	-0.71	0.00
20	2 17 24	98.30	25.49	3.10	33.68	999.00	90.00	22.27	3.82	33.68	93.80	11.47	10.49	34.09	999.00	-0.07	999.00	-0.13	0.00
20	2 17 24		22.17	4.84	33.23	999.00	89.30	19.14	5.37	33.17	88.50	9.53	14.10	33.31	999.00	0.47	999.00	0.02	0.00
20	2 18 2		17.34	2.61	34.64	999.00	110.80	16.25	3.79		112.00	6.44	15.65	33.80	999.00		999.00	0.41	0.00
20		161.20	13.20	3.06	35.14	999.00	151.10	9.86	4.37		112.70	2.71	13.09	34.18	999.00	1.10	999.00	1.08	0.00
20		168.30	16.01	3.10	36.23	999.00	159.00	12.75	3.99		145.10	999.00	14.16	35.06	999.00	1.07	999.00	1.14	0.00
20	2 18 5	999.00	999.00	999.00	36.23	999.00	999.00	999.00	999.00	36.28	999.00	999.00	999.00	35.06	999.00	999.00	999.00	2.49	0.00
20	2 18 6	230.90	24.79	5.16	40.74	999.00	222.90	21.46	5.54	40.72	217.10	10.32	11.50	39.11	999.00	1.20	999.00	1.38	0.00
20	2 18 7	240.50	25.66	4.11	42.70	999.00	234.00	23.29	4.70	43.13	227.70	14.46	8.10	42.56	999.00	-0.24	999.00	0.24	0.00
20	2 18 8	248.50	27.50	4.14	43.18	999.00	243.30	25.58	4.31	43.69	238.60	17.22	8.04	43.59	999.00	-0.42	999.00	0.08	0.00
20	2 18 9	263.20	27.39	4.27	42.42	999.00	257.30	24.46	5.22	42.95	252.60	16.32	8.94	43.13	999.00	-0.88	999.00	-0.41	0.00
20	2 18 10	261.80	26.65	4.32	41.56	999.00	256.30	24.34	5.93	42.05	249.70	15.41	9.93	42.72	999.00	-1.21	999.00	-0.75	0.00
20	2 18 11	263.00	26.40	4.95	40.35	999.00	257.20	24.15	5.80	41.10	251.60	15.64	9.81	41.99	999.00	-1.68	999.00	-0.93	0.00
20	2 18 12		22.04	7.83	39.51	999.00	269.00	20.13	8.02	40.19	263.50	13.61	11.76	41.31	999.00	-1.84	999.00	-1.20	0.00
20	2 18 13		24.85	6.94	38.55	999.00	274.40	23.48	6.76	39.10	268.90	16.88	11.44	40.35	999.00	-1.89	999.00	-1.34	0.00
20	2 18 14		25.18	6.19	38.00	999.00	274.80	23.28	7.22	38.57	269.70	17.36	10.89	40.13	999.00	-2.34	999.00	-1.74	0.00
20	2 18 15		24.62	5.39	38.39	999.00	280.80	24.20	5.74	38.94	274.30	17.69	10.94	40.72	999.00	-2.14	999.00	-1.60	0.00
20	2 18 16		25.06	4.94	38.32	999.00	294.70	23.61	5.12		288.70	17.78	9.59	40.72	999.00	-2.48	999.00	-1.90	0.00
	2 18 17		21.56			999.00											999.00		0.00
20				6.65	37.47		280.60	20.61	7.13	38.04		14.15	10.89	39.66	999.00	-2.12		-1.55	
20			19.34	3.91	36.66	999.00	281.40	18.21	4.94		273.20	11.42	9.28	38.21	999.00	-1.17	999.00	-0.68	0.00
	2 18 19		12.73	3.71	35.81	999.00	282.30	12.59	3.11		269.90	6.32	7.29	36.57	999.00	-0.43	999.00	-0.02	0.00
20	2 18 20	288.00	17.22	2.00	33.93	999.00	282.60	15.79	2.91		271.70	8.21	8.30	34.30	999.00	-0.32	999.00	0.02	0.00
20	2 18 21		19.31	2.79	32.33	999.00	273.80	17.04	3.82		264.90	9.61	8.65	32.85	999.00	-0.49	999.00	-0.17	0.00
20	2 18 22	275.00	19.15	3.38	31.43	999.00	268.70	16.77	4.62	31.78	261.90	9.92	9.33	32.10	999.00	-0.75	999.00	-0.37	0.00
20	2 18 23	261.90	17.11	6.50	30.47	999.00	255.90	15.92	6.64	30.91	250.00	10.52	9.37	31.48	999.00	-1.16	999.00	-0.67	0.00
20	2 18 24	263.80	15.94	4.45	29.47	999.00	256.70	14.04	5.61	29.94	250.70	8.38	8.97	30.67	999.00	-1.24	999.00	-0.77	0.00
20	2 19 1	280.90	17.02	3.48	28.69	999.00	275.00	14.95	4.53	29.10	265.50	8.63	9.09	29.63	999.00	-0.78	999.00	-0.41	0.00
20	2 19 2	281.30	14.54	2.79	28.22	999.00	272.00	12.76	3.47	28.51	256.80	6.63	8.14	28.75	999.00	-0.56	999.00	-0.27	0.00
20	2 19 3	279.20	13.51	2.78	27.83	999.00	267.30	11.71	3.86	28.14	249.30	6.45	8.04	28.50	999.00	-0.63	999.00	-0.36	0.00
20	2 19 4	272.80	15.43	3.75	27.60	999.00	258.60	12.25	5.57		243.50	7.36	7.26	27.99	999.00	-0.18	999.00	-0.29	0.00
20		285.10	16.19	7.68	27.68	999.00	271.10	14.26	8.14		250.20	6.93	9.18	27.95	999.00	-0.06	999.00	0.00	0.00
20	2 19 6	303.50	15.99	4.61	27.31	999.00	292.60	13.82	3.89		270.10	6.97	8.08	27.47	999.00	0.12	999.00	0.27	0.00
20	2 19 7		24.58	5.90	27.31	999.00	324.40	22.97	6.65		319.10	15.48	10.42	27.47	999.00	-1.40	999.00	-0.86	0.00
20	2 19 8	316.80	18.69	7.33	24.53	999.00	310.30	17.74	6.86		303.50	11.18	12.18	25.89	999.00	-1.35	999.00	-0.84	0.00
	2 19 9	327.70	17.38			999.00	322.00	17.74	6.01	23.06	303.30	12.73		25.41	999.00	-2.07	999.00		0.00
20				5.94	23.41								9.13					-1.52	
20		316.10	14.15	7.05	22.99	999.00	309.80	14.24	6.94	23.54	303.80	10.47	14.64	25.25	999.00	-2.76	999.00	-2.21	0.00
	2 19 11		14.65	7.48		999.00		14.40	7.82		328.10	11.41	13.12		999.00		999.00	-2.49	0.00
	2 19 12		12.95	9.56		999.00		12.92	9.59		313.60	999.00	17.05		999.00		999.00	2.75	0.00
	2 19 13			999.00		999.00		999.00			999.00				999.00	999.00		999.00	0.00
	2 19 14		11.31	6.99		999.00		11.13	8.21		319.20	8.67	15.29		999.00		999.00	-2.78	0.00
20	2 19 15	332.10	10.55	10.28	25.12	999.00	329.20	10.70	11.41	25.72	333.20	9.31	18.60		999.00	-2.81	999.00	-2.19	0.00
20	2 19 16	334.80	9.20	11.35	26.58	999.00	333.90	8.91	11.87	27.26	333.80	8.00	16.39	29.70	999.00	-2.70	999.00	-1.93	0.00
20	2 19 17	325.10	9.59	7.17		999.00		9.66	8.67		320.70	7.99	12.11	30.41	999.00		999.00	-2.02	0.00
	2 19 18		7.72	6.20	28.68	999.00		7.66	6.50		310.50	5.78	11.14		999.00		999.00	-1.54	0.00
	2 19 19		12.17	2.95		999.00		11.24	3.97		262.20	6.82	8.38		999.00		999.00	-0.43	0.00
	2 19 20		11.78	1.66		999.00		10.61	1.65		264.20	4.98	5.66		999.00		999.00	-0.03	0.00
		200.10	,			222.00					_ 0 . • 2 0	1.00	J. 00	_0.00	222.00	0.00	222.00		J. J.

20	2 19 21		11.53	0.94	28.04	999.00		10.44	1.06		275.00	4.07	4.36		999.00	0.21	999.00	0.49	0.00
20	2 19 22	295.10	13.93	2.54	27.74	999.00	287.20	12.03	2.60	27.96	269.80	5.19	6.23	27.67	999.00	0.05	999.00	0.27	0.00
20	2 19 23	328.80	16.02	4.08	27.03	999.00	323.20	15.43	4.74	27.43	319.20	9.94	10.05	27.34	999.00	-1.00	999.00	-0.49	0.00
20	2 19 24	332.70	16.93	4.88	25.86	999.00	327.10	15.95	5.33	26.38	322.80	10.70	10.82	27.07	999.00	-1.35	999.00	-0.82	0.00
20	2 20 1	332.00	20.82	4.77	23.91	999.00	326.70	19.55	5.95	24.44	321.10	13.37	10.19	25.35	999.00	-1.44	999.00	-0.91	0.00
20	2 20 2	336.40	19.08	4.62	22.36	999.00	331.30	18.37	5.69	22.90	330.30	12.12	10.75	23.82	999.00	-1.52	999.00	-0.98	0.00
20		335.00	16.31	6.20	20.51	999.00	329.60	15.51	6.90		326.20	10.70	11.44	22.02	999.00	-1.49	999.00	-0.96	0.00
20	2 20 4	339.90	14.61	7.88	19.45	999.00	333.90	14.21	7.79		331.50	9.74	12.99	20.97	999.00	-1.54	999.00	-0.99	0.00
20	2 20 5	335.00	12.80	5.08	18.90	999.00	329.10	12.27	5.47	19.42	323.90	8.66	11.84	20.43	999.00	-1.54	999.00	-1.02	0.00
20	2 20 6	339.40	14.36	4.72	18.45	999.00	334.00	13.77	5.74		331.30	9.70	10.42	20.15	999.00		999.00	-1.24	0.00
20	2 20 7	333.10	11.41	7.22	18.33	999.00	325.50	11.15	6.72		316.20	8.04	11.06	20.13	999.00	-1.80	999.00	-1.25	0.00
20		337.40	11.76	6.20	17.84	999.00	332.00	11.50	7.06		330.70	8.80	10.79	19.68	999.00	-1.83	999.00	-1.28	0.00
20		339.50	13.59	9.03	17.35	999.00	334.30	13.15	10.32	17.91	335.70	10.73	12.95	19.36	999.00	-2.13	999.00	-1.55	0.00
	2 20 10		13.80	6.88	17.29	999.00	347.90	13.52	7.46	17.86	350.30	11.45	11.13	19.42	999.00	-2.11	999.00	-1.56	0.00
	2 20 10		14.71	8.30	17.71	999.00	354.70	14.19	8.79	18.20	353.80	12.18	13.97	20.11	999.00	-2.38	999.00	-1.88	0.00
20			13.54	6.55	17.76	999.00	348.10	12.93	8.38	18.28	348.80	11.40	10.37	19.93	999.00	-2.24	999.00	-1.68	0.00
	2 20 13	1.75	9.44	10.15	18.48	999.00	358.80	9.27	11.24		357.90	8.13	19.69	20.55	999.00	-1.92	999.00	-1.45	0.00
20	2 20 14	341.00	9.06	11.31	19.41	999.00	335.00	8.97	11.21		335.40	7.41	16.09	22.05	999.00	-3.07	999.00	-2.38	0.00
20	2 20 15	339.00	7.74	15.58	20.00	999.00	330.90	7.60	16.29		342.10	6.41	29.58	23.23	999.00	-2.95	999.00	-2.36	0.00
20	2 20 16	350.90	7.23	15.06	20.99	999.00	347.50	7.39	13.71		347.30	6.27	22.29	24.00	999.00	-2.56	999.00	-1.82	0.00
20	2 20 17	999.00	999.00	999.00	21.20	999.00	999.00	999.00	999.00	21.94	999.00	999.00	999.00	23.76	999.00	999.00	999.00	999.00	0.00
20	2 20 18	355.10	2.68	36.77	22.12	999.00	17.81	2.69	30.20	22.86	33.57	3.01	55.22	23.80	999.00	-1.63	999.00	-0.78	0.00
20	2 20 19	95.60	1.57	81.00	21.23	999.00	106.30	1.70	54.29		123.60	1.99	22.91	22.76	999.00	-1.65	999.00	-1.06	0.00
20	2 20 20	327.90	9.88	13.44	21.88	999.00	319.80	8.97	16.60	22.33	297.60	5.90	28.38	22.89	999.00	-0.84	999.00	-0.40	0.00
20	2 20 21	324.50	10.67	5.37	21.88	999.00	319.10	10.48	6.41	22.33	310.70	6.71	11.34	22.89	999.00	-1.00	999.00	-0.48	0.00
20	2 20 22	330.60	13.24	5.28	21.62	999.00	325.10	12.70	5.07	22.14	316.60	8.36	11.27	22.67	999.00	-1.14	999.00	-0.62	0.00
20	2 20 23	323.60	11.93	6.44	21.17	999.00	318.10	11.59	6.64	21.68	309.90	7.33	12.86	22.15	999.00	-0.98	999.00	-0.46	0.00
20	2 20 24	321.30	11.45	6.73	20.88	999.00	317.10	10.82	6.25	21.38	306.70	5.87	12.42	21.69	999.00	-0.75	999.00	-0.25	0.00
20	2 21 1	300.50	12.06	2.39	20.37	999.00	292.70	11.20	2.31	20.79	262.10	6.18	6.42	20.43	999.00	0.04	999.00	0.46	0.00
20	2 21 2	296.50	14.28	1.77	19.93	999.00	286.20	13.07	2.40	20.29	264.60	6.17	6.63	19.69	999.00	0.26	999.00	0.48	0.00
20	2 21 3	300.90	14.80	4.08	18.16	999.00	294.70	13.41	4.43	18.56	277.50	8.34	8.94	18.41	999.00	-0.80	999.00	-0.33	0.00
20	2 21 4	296.60	13.93	3.98	16.73	999.00	290.00	13.03	3.93	17.21	272.20	7.82	8.68	17.75	999.00	-0.92	999.00	-0.46	0.00
20	2 21 5		13.87	2.37	16.00	999.00	278.30	12.56	3.16		259.90	6.56	8.57	16.71	999.00	-0.67	999.00	-0.37	0.00
20		273.50	12.60	4.10	15.70	999.00	265.00	10.79	5.50		254.50	5.78	8.47	16.49	999.00	-1.05	999.00	-0.66	0.00
20	2 21 7		10.08	6.42	15.35	999.00	251.60	9.31	6.66	15.77		7.02	7.84	16.50	999.00	-1.12	999.00	-0.69	0.00
20	2 21 8		13.66	5.50	15.35	999.00	249.30	11.84	6.17		236.30	8.51	8.73	16.50	999.00	-1.48	999.00	-0.96	0.00
	2 21 9		12.72	6.88	15.85	999.00	236.70	12.08	7.82		227.10	9.50	10.86	17.66	999.00	-1.97	999.00	-1.40	0.00
20	2 21 10		13.87	7.02	17.59	999.00	250.00	13.61	8.50	18.20	246.50	11.53	10.01	19.84	999.00	-2.41	999.00	-1.79	0.00
20			15.37	5.91	19.58	999.00	241.10	14.92	7.63		239.40	12.51	11.52	22.25	999.00	-2.75	999.00	-2.22	0.00
	2 21 11		18.57	3.81	21.60	999.00	245.00	18.07	4.32		241.30	14.37	9.41	24.40	999.00	-2.86	999.00	-2.38	0.00
						999.00	240.80	19.17	5.97		237.90	15.10	9.30	26.51	999.00	-2.91	999.00	-2.43	0.00
20			19.51	5.60	23.64					24.13									
20	2 21 14		21.66	4.80	25.82	999.00	236.50	21.29	5.55	26.30	235.70	16.39	11.13	28.63	999.00	-2.74	999.00	-2.27	0.00
	2 21 15		21.40	6.12		999.00		20.92	7.35		232.70	15.89	10.08		999.00		999.00	-2.23	0.00
	2 21 16		23.60	4.83		999.00		23.15	5.41		241.20	17.53	10.26		999.00		999.00	-1.89	0.00
	2 21 17		24.56	6.56		999.00		23.39	7.18		227.80	17.22	9.14		999.00		999.00	-1.51	0.00
	2 21 18		24.33	4.24		999.00		22.80	5.25		230.50	16.97	8.22		999.00		999.00	-1.02	0.00
	2 21 19		24.02	3.62		999.00		21.87	4.29		228.70	14.91	7.72		999.00		999.00	-0.58	0.00
	2 21 20		999.00	999.00		999.00		999.00	999.00		999.00	999.00	999.00		999.00		999.00	-0.46	0.00
	2 21 21		24.83	4.19	29.44	999.00	229.30	22.08	5.00		226.70	13.61	9.03	30.31	999.00	-0.85	999.00	-0.45	0.00
20	2 21 22	234.80	24.04	3.74	28.87	999.00	228.50	21.10	4.23		223.90	11.72	8.81		999.00		999.00	-0.34	0.00
20	2 21 23	232.00	24.90	4.28	28.53	999.00	224.80	21.51	5.16	28.79	219.80	11.95	10.58	29.04	999.00	-0.47	999.00	-0.21	0.00
20	2 21 24	236.50	26.02	4.10	28.35	999.00	231.10	22.98	5.28	28.66	228.00	14.43	8.44	28.95	999.00	-0.66	999.00	-0.34	0.00

20 22 2 24 25 60 24 27 24 24 24 25 29 29 20 29 20 29 20 20	00 0 00 1 006 60	06.70 4.5	0 00 11	000 00 000 00	00.00	4 06	00 45	007 70	15 00	0 10	00 00	000 00	0 70	000 00	0 40	0 00
20 22 23 247,70 23,78 47,6 26,78 999,00 247,70 21,98 4,60 27,21 236,80 25,01 15,30 7,92 27,87 999,00 -1,12 999,00 -1,02 0,00																
20 22 2 24, 60 24, 67 4, 67 4, 67 25, 78 399,00 239,00																
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22 2 2 2 2 2 2 3 6,00 2 3.65 3.55 2 5.04 99.00 2 32.50 2 0.80 4.77 2 5.30 2 2 6.10 12.50 8.51 2 5.69 99.00 -1.66 99.00 -0.69 90.00 -1.66 90.00 2 2 2 2 1 2 24.00 2 3.52 4.36 2 6.02 99.00 2 33.80 2 2.16 4.85 2 6.40 2 35.00 16.86 9.73 2 7.44 99.00 -2.05 99.00 -1.56 0.00 2 2 2 1 2 24.10 2 24.10 2 2.03 4.46 3.074 99.00 2 38.50 2 2.00 4.82 3 11.00 2 3.00 4.80 3 11.00 2																
20 22 29 245,40 24,04 4,88 26,02 999,00 236,00																
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20 22 21 243,10 22,83 4,46 30,14 999,00 236,50 236,50 236,50 236,50 16,86 9,34 32,96 999,00 -2,41 999,00 -1,91 0,00					22.16						27.34				-1.18	
20 22 21 242,070 20,078 6.48 33.72 999.00 226,50 20.26 7.01 34.19 235,60 15.92 5.95 38.19 999.00 -2.59 999.00 -2.11 0.00			6 26.02												-1.56	0.00
20 22 21 242,00 20,00 6.91 36,58 999,00 27,50 19,68 7,21 37,03 235,40 17,27 10,31 41,70 999,00 -2,42 999,00 -1,92 0.00		22.83 4.4	6 30.74			4.82			16.86		32.96	999.00	-2.41	999.00	-1.91	0.00
20 2 2 14 243,60 23,12 5.67 39.25 99.00 238,80 22,80 6.71 33.73 235.40 17.27 10.31 41.70 999,00 -2.30 999,00 -1.92 0.00		20.77 6.4			20.26				15.08	8.55	36.19		-2.59		-2.11	0.00
20 2 22 15 239,10 25,73 4.63 41,21 999,00 239,20 231,20 27,70 41,65 231,20 17,73 9,20 43,50 999,00 -2,35 999,00 -1,15 999,00 -1,00									15.92					999.00		
20 2 22 16 245,800 28.61 4.27 42.98 999.00 239.90 27.70 4.57 43.46 236.50 20.77 7.92 44.84 999.00 -1.62 999.00 -1.55 0.00	20 2 22 14 243.60	23.12 5.6	7 39.25	999.00 238.80	22.80	6.71	39.73	235.40	17.27	10.31		999.00	-2.40	999.00	-1.92	0.00
20 2 2 17 247,70 28,19 4.16 43,84 999.00 242,30 27,22 4.99 44,34 239,20 19,39 8,70 45,21 999.00 -0,64 0.00 20 2 219 235,00 22,14 2.06 42,84 999.00 22,19 2.39 2.99 4,99 0.02 22,20 22,14 2.03 2.98 4,18 999.00 21,69 9,99 0.02 1.14 999.00 1.74 999.00 1.14 999.00 1.14 1.91 4.00 2.01 2.02 22,21 22,30 21,47 2.08 40.12 999.00 22,40 1.91 4.10 4.00 4.00 2.02 2.22 23,40 1.14 3.71 3.71 3.73 2.11 37.02 999.00 2.28 999.00 2.28 999.00 2.28 999.00 2.28 999.00 2.28 999.00 2.28 999.00 2.28 999.00 2.28 99	20 2 22 15 239.10	25.73 4.6	3 41.21	999.00 233.20	25.11	5.39	41.65	231.20	17.73		43.50	999.00	-2.35	999.00	-1.92	0.00
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	20 2 22 16 245.80	28.61 4.2	7 42.98	999.00 239.90	27.70	4.57	43.46	236.50	20.77	7.92	44.84	999.00	-1.62	999.00	-1.15	0.00
20 2 22 19 235.00	20 2 22 17 247.70	28.19 4.1	6 43.84	999.00 242.30	27.22	4.89	44.34	239.20	19.39	8.70	45.21	999.00	-1.13	999.00	-0.64	0.00
20 2 2 2 2 2 2 2 2 2	20 2 22 18 244.80	23.17 3.7	0 43.58	999.00 239.60	21.59	3.70	44.04	234.40	14.38	7.20	44.27	999.00	-0.39	999.00	0.03	0.00
20 2 22 21 23,20 21,47 2.08 40,12 299,00 21,60 17,00 2.51 33,81 299,00 10,72 2899,00 2.08 999,00 1.43 30,00 20 2 22 23,13 23,16 1.66 38,42 999,00 22,30 1.66 0.00 20 2 22,34 23,66 23,36 1.66 99,00 223,30 1.74 1.50 0.00 20 2 23,12 21,10 21,14 31,33 38,06 999,00 22,30 0.00 22 23,13 21,12 21,10 1.14 37,16 999,00 22,18 1.68 48,18 11,14 31,99 20 23,3 21,17 1.43 37,16 999,00 2.0 23,3 21,17 1.18 35,99 999,00 2.18 999,00 2.19 3.41 999,00 2.19 999,00 2.19 999,00 2.19 999,00 <td< td=""><td>20 2 22 19 235.00</td><td>22.14 2.0</td><td>6 42.84</td><td>999.00 226.90</td><td>19.35</td><td>2.13</td><td>43.02</td><td>214.80</td><td>7.37</td><td>11.19</td><td>42.03</td><td>999.00</td><td>1.74</td><td>999.00</td><td>1.74</td><td>0.00</td></td<>	20 2 22 19 235.00	22.14 2.0	6 42.84	999.00 226.90	19.35	2.13	43.02	214.80	7.37	11.19	42.03	999.00	1.74	999.00	1.74	0.00
20 2 22 22 231.80	20 2 22 20 225.60	22.93 2.9	8 41.88	999.00 216.20	19.14	3.12	41.79	211.20	7.56	9.60	40.01	999.00	2.01	999.00	1.81	0.00
20 2 2 2 2 3 2 3 6 6 6 3 6 4 6 8 99 00 27 40 19 23 2 2 3 37 39 20 70 7 82 8 7 3 5 49 99 00 2 2 3 99 00 2 2 3 2 2 3 1 2 3 2 2 2 1 3 3 3 3 3 3 3 3 3	20 2 22 21 223.20	21.47 2.0	8 40.12	999.00 214.50	17.00	2.51	39.81	209.90	6.04	10.72	38.26	999.00	2.08	999.00	1.66	0.00
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		24.39 1.8	8 39.27	999.00 222.80	19.96	2.79	38.69	216.50	7.42	11.93	37.02	999.00	2.03	999.00	1.43	0.00
20 2 3 1 231,20 21,07 1,43 37,16 999.00 22,80 17,50 2,17 35,06 205,50 4,88 11,47 32,98 999.00 2,00 0 0 0 20 23 3 230,80 21,41 1,80 35,89 999.00 218,10 17,38 2,46 34,95 202,60 5.03 10,34 32,65 999.00 3,19 999.00 2,31 0,00 20 2 3 22,51 2,52 1,55 35,21 999.00 21,60 17,91 1,84 34,38 203,20 4,84 11,45 399.00 3,12 399.00 2,10 0,00 20 22,37 6,215,50 23,48 2,15 34,37 999.00 220,10 19,17 2,67 33,21 198,10 7,23 11,73 31,14 999.00 2,67 19,43 43,37 999.00 20,50 19,39 2,64 33,21 198,10 7,23	20 2 22 23 236.60	23.36 1.6	6 38.42	999.00 227.40	19.23	2.13	37.93	220.70	7.82	8.72	36.59	999.00	2.31	999.00	1.64	0.00
20 2 23 2 231,30 22.44 1.51 35,98 999.00 218.90 17.50 2.17 35.06 205.60 4.88 11.47 32.98 999.00 3.19 999.00 2.30 0.00 20 223 4 229.70 22.17 1.53 35.98 999.00 216.30 17.66 2.46 34.95 202.60 5.03 10.34 32.65 999.00 3.19 999.00 2.10 0.00 20 2.35 5 225.10 21.67 1.52 35.21 999.00 216.00 17.66 2.46 34.98 203.20 4.84 11.45 32.78 999.00 3.12 999.00 2.10 0.00 20 2.36 6 25.50 5 23.48 2.15 34.37 999.00 216.00 19.17 2.67 33.21 193.10 8.26 9.21 31.14 999.00 2.67 999.00 1.42 0.00 20 2.38 2.17 9.00 2.267 1.94 34.37 999.00 20.550 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2.31 0.27 999.00 22.30 1.94 1.94 1.94 1.94 1.94 1.94 1.94 1.94	20 2 22 24 234.30	21.43 1.9	3 38.06	999.00 223.90	17.40	2.50			6.04	10.64	35.49	999.00		999.00	2.30	0.00
20 2 23 3 230.80 21.41 1.80 35.93 99.00 218.10 17.38 2.46 34.95 202.60 5.03 10.34 32.65 999.00 3.19 999.00 2.31 0.00 20 2 23 5 225.10 21.67 1.52 35.21 999.00 21.630 17.91 1.84 34.34 192.00 6.99 7.46 32.10 999.00 3.48 999.00 2.68 0.00 20 2 23 6 215.50 23.48 2.15 34.37 999.00 202.10 19.17 2.67 33.21 198.10 7.23 11.73 31.14 999.00 2.67 999.00 1.42 0.00 20 2 23 8 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 10 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 10 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 10 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 10 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 10 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 212.00 0.00 20 2 23 13 21.79 00 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 212.00 0.00 20 2 2.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 2 2 12 2 2 2 2 2 2 2 2 2 2 2 2 2	20 2 23 1 231.20	21.07 1.4	3 37.16	999.00 220.80	16.84	2.11	36.19	212.20	5.74	9.87	34.14	999.00	2.88	999.00	2.01	0.00
20 2 23 4 229.70 22.17 1.53 35.94 999.00 216.30 17.66 2.46 34.98 203.20 4.84 11.45 32.78 999.00 3.12 999.00 2.10 0.00 20 2 23 5 225.10 21.67 1.52 35.21 999.00 212.00 17.91 1.84 34.34 192.00 6.99 7.46 32.10 999.00 3.48 999.00 2.68 0.00 20 2 23 6 215.50 23.48 2.15 34.37 999.00 202.10 19.17 2.67 33.21 193.10 8.26 9.21 31.14 999.00 1.93 999.00 1.42 0.00 20 2 23 7 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 9 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 9 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 10 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 11 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 11 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 13 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 22 31 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 22 31 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 22 31 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 22 31 12 217.90 22.67 1.9	20 2 23 2 231.30	22.44 1.5	1 35.98	999.00 218.90	17.50	2.17	35.06	205.60	4.88	11.47	32.98	999.00	3.41	999.00	2.30	0.00
20 2 23 5 225.10 21.67 1.52 35.21 999.00 212.00 17.91 1.84 34.34 192.00 6.99 7.46 32.10 999.00 3.48 999.00 2.68 0.00 20 2 23 6 215.50 23.48 2.15 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 2.67 999.00 1.42 0.00 20 2 23 8 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 8 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 10 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 10 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 10 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.00 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200.00 200	20 2 23 3 230.80	21.41 1.8	0 35.93	999.00 218.10	17.38	2.46	34.95	202.60	5.03	10.34	32.65	999.00	3.19	999.00	2.31	0.00
20 2 23 6 215.50 23.48 2.15 34.37 999.00 202.10 19.17 2.67 33.21 193.10 8.26 9.21 31.14 999.00 2.67 999.00 1.42 0.00 20 2 23 7 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 9 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 10 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 10 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 13 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 14 208.80 20.29 5.61 41.08 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 14 208.80 20.29 5.61 41.08 999.00 207.00 20.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 15 207.40 21.71 5.34 46.75 999.00 207.60 20.90 6.22 47.96 208.00 12.91 13.44 41.81 49.09 999.00 -2.25 999.00 -1.76 0.00 20 2 23 15 207.40 21.71 5.34 46.75 999.00 207.70 22.00 6.22 47.96 208.10 13.14 14.31 49.09 999.00 -2.25 999.00 -1.76 0.00 20 2 23 18 213.50 21.50 20.50 20.50 20.50 20.50 20.50 20.50 20.50 20.50 20.50 20.50 20.50 20.50 20.50 20.50 20.50 20.50 20.50 20	20 2 23 4 229.70	22.17 1.5	3 35.94	999.00 216.30	17.66	2.46	34.98	203.20	4.84	11.45	32.78	999.00	3.12	999.00	2.10	0.00
20 2 23 7 217,90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 9 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 10 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 10 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 15 207.40 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 15 207.40 21.71 5.34 46.75 999.00 202.60 19.63 5.91 41.09 201.30 12.91 13.44 41.87 999.00 -2.43 999.00 1.08 0.00 20 2 23 16 213.20 22.97 5.41 47.45 999.00 201.60 20.90 6.50 47.33 201.90 12.49 14.11 49.09 999.00 -2.25 999.00 -1.76 0.00 20 2 23 16 213.20 22.97 5.41 47.45 999.00 207.70 22.00 6.22 47.96 208.10 13.14 14.13 49.09 999.00 -2.25 999.00 -1.68 0.00 20 2 23 12 215.80 23.22 23 47.52 0.00 20.80 20.20 20.80 20.20 20.80 20.20 20.80 20.20 2		21.67 1.5	2 35.21	999.00 212.00	17.91	1.84	34.34	192.00	6.99	7.46	32.10	999.00	3.48	999.00	2.68	0.00
20 2 23 8 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 10 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 11 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 12 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 13 217.90 22.67 1.94 34.37 999.00 205.50 19.39 2.64 33.21 198.10 7.23 11.73 31.14 999.00 1.93 999.00 1.08 0.00 20 2 23 14 208.80 20.29 5.61 41.08 999.00 202.60 19.63 5.91 41.09 201.30 12.91 13.44 41.87 999.00 -2.43 999.00 -1.76 0.00 20 2 23 15 207.40 21.71 5.34 46.75 999.00 201.60 20.90 6.50 47.33 201.90 12.49 14.11 49.09 999.00 -2.25 999.00 -1.76 0.00 20 2 23 16 213.20 22.97 5.41 47.45 999.00 207.70 22.00 6.22 47.96 208.10 13.14 14.31 49.79 999.00 -2.25 999.00 -1.68 0.00 20 2 23 18 213.50 21.73 3.51 48.64 999.00 207.30 23.35 5.47 48.96 214.00 14.16 11.41 50.30 999.00 -1.56 999.00 -1.68 0.00 20 2 23 18 213.50 21.73 3.51 48.64 999.00 207.30 19.58 41.6 49.02 205.30 9.68 11.95 49.56 999.00 -1.56 999.00 -1.16 0.00 20 2 23 20 220.10 25.16 2.62 46.31 999.00 211.40 19.75 4.33 44.42 205.10 8.32 12.94 43.68 999.00 1.07 999.00 1.28 0.00 20 2 23 22 222.50 23.69 2.50 42.53 999.00 212.70 20.91 3.21 42.37 208.50 7.35 10.87 41.14 44.56 999.00 1.07 999.00 1.56 0.00 20 2 23 22 222.50 23.69 2.50 42.53 999.00 213.30 19.90 28.9 44.32 201.90 7.49 11.06 39.86 999.00 2.17 999.00 1.56 0.00 20 2 23 22 222.50 23.69 2.50 42.53 999.00 213.30 19.90 2.89 41.32 201.90 7.49 11.06 39.86 999.00 2.77 999.00 1.58 0.00 20 2 24 1 233.10 24.25 1.24 41.04 999.00 215.50 16.94 2.24 40.03 202.20 5.22 10.11 38.27 999.00 2.77 999.00 2.77 999.00 2.1	20 2 23 6 215.50	23.48 2.1	5 34.37	999.00 202.10	19.17	2.67	33.21	193.10	8.26	9.21	31.14	999.00	2.67	999.00	1.42	0.00
20 2 23 10 217.90	20 2 23 7 217.90	22.67 1.9	4 34.37	999.00 205.50	19.39	2.64	33.21	198.10	7.23	11.73		999.00	1.93	999.00	1.08	0.00
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20 2 23 13 217.90 22.67	20 2 23 11 217.90	22.67 1.9	4 34.37	999.00 205.50	19.39	2.64	33.21	198.10	7.23	11.73	31.14	999.00	1.93	999.00	1.08	0.00
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20		21.71 5.3	4 46.75	999.00 201.60	20.90				12.49		49.09	999.00	-2.25	999.00	-1.74	
20 2 23 18 213.50 21.73 3.51 48.64 999.00 207.30 19.58 4.16 49.02 205.30 9.68 11.95 49.56 999.00 -0.43 999.00 -0.11 0.00 20 2 23 19 215.80 23.22 2.28 47.52 999.00 208.80 20.26 2.78 47.71 201.00 7.54 11.42 46.93 999.00 1.08 999.00 1.17 0.00 20 2 23 20 220.10 25.16 2.62 46.31 999.00 212.70 20.91 3.21 46.13 207.90 8.20 11.41 44.56 999.00 1.79 999.00 1.56 0.00 20 2 23 21 218.70 23.09 3.94 44.51 999.00 211.40 19.75 4.33 44.44 205.10 8.32 12.94 43.68 999.00 0.58 999.00 0.60 0.00 20 2 23 22 222.50 23.69 2.50 42.53 999.00 213.20 19.54 3.21 42.37 208.50 7.35 10.87 41.17 999.00 1.67 999.00 1.28 0.00 20 2 23 24 227.30 24.00 2.16 41.81 999.00 213.30 19.90 2.89 41.32 201.90 7.49 11.06 39.86 999.00 2.71 999.00 1.58 0.00 20 2 23 24 227.30 21.25 1.71 40.73 999.00 215.50 16.94 2.24 40.03 202.20 5.22 10.11 38.27 999.00 2.77 999.00 1.58 0.00 20 2 24 1 233.10 24.25 1.24 41.04 999.00 219.90 19.13 1.96 39.55 209.60 6.07 10.46 37.03 999.00 3.92 999.00 2.30 0.00 20 2 24 2 235.10 24.21 2.08 40.39 999.00 221.10 19.46 2.41 39.00 210.80 6.80 11.18 36.75 999.00 3.92 999.00 2.11 0.00 20 2 24 3 235.20 22.17 2.50 40.52 999.00 220.30 18.01 2.49 39.30 207.80 5.96 11.21 37.06 999.00 3.36 999.00 2.11 0.00		22.97 5.4	1 47.45						13.14	14.31	49.79	999.00	-2.17		-1.68	
20 2 23 19 215.80 23.22 2.28 47.52 999.00 208.80 20.26 2.78 47.71 201.00 7.54 11.42 46.93 999.00 1.08 999.00 1.17 0.00 20 2 23 20 220.10 25.16 2.62 46.31 999.00 212.70 20.91 3.21 46.13 207.90 8.20 11.41 44.56 999.00 1.79 999.00 1.56 0.00 20 2 23 21 218.70 23.09 3.94 44.51 999.00 211.40 19.75 4.33 44.44 205.10 8.32 12.94 43.68 999.00 0.58 999.00 0.60 0.00 20 2 23 22 222.50 23.69 2.50 42.53 999.00 213.20 19.54 3.21 42.37 208.50 7.35 10.87 41.17 999.00 1.67 999.00 1.28 0.00 20 2 23 23 22 4.30 24.00 2.16 41.81 999.00 213.30 19.90 2.89 41.32 201.90 7.49 11.06 39.86 999.00 2.11 999.00 1.58 0.00 20 2 23 24 227.30 21.25 1.71 40.73 999.00 215.50 16.94 2.24 40.03 202.20 5.22 10.11 38.27 999.00 2.77 999.00 1.92 0.00 20 2 24 1 233.10 24.25 1.24 41.04 999.00 219.90 19.13 1.96 39.55 209.60 6.07 10.46 37.03 999.00 4.37 999.00 2.70 0.00 20 2 24 2 235.10 24.21 2.08 40.39 999.00 221.10 19.46 2.41 39.00 210.80 6.80 11.18 36.75 999.00 3.36 999.00 2.11 0.00 20 2 24 3 235.20 22.17 2.50 40.52 999.00 220.30 18.01 2.49 39.30 207.80 5.96 11.21 37.06 999.00 3.36 999.00 2.11 0.00			4 48.44							11.41	50.30				-1.09	
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20 2 23 21 218.70 23.09 3.94 44.51 999.00 211.40 19.75 4.33 44.44 205.10 8.32 12.94 43.68 999.00 0.58 999.00 0.60 0.00 20 2 23 22 222.50 23.69 2.50 42.53 999.00 213.20 19.54 3.21 42.37 208.50 7.35 10.87 41.17 999.00 1.67 999.00 1.28 0.00 20 2 23 23 224.30 24.00 2.16 41.81 999.00 213.30 19.90 2.89 41.32 201.90 7.49 11.06 39.86 999.00 2.11 999.00 1.58 0.00 20 2 23 24 227.30 21.25 1.71 40.73 999.00 215.50 16.94 2.24 40.03 202.20 5.22 10.11 38.27 999.00 2.77 999.00 1.92 0.00 20 2 24 1 233.10 24.25 1.24 41.04 999.00 219.90 19.13 1.96 39.55 209.60 6.07 10.46 37.03 999.00 4.37 999.00 2.70 0.00 20 2 24 2 235.10 24.21 2.08 40.39 999.00 221.10 19.46 2.41 39.00 210.80 6.80 11.18 36.75 999.00 3.92 999.00 2.39 0.00 20 2 24 3 235.20 22.17 2.50 40.52 999.00 220.30 18.01 2.49 39.30 207.80 5.96 11.21 37.06 999.00 3.36 999.00 2.11 0.00																
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20 2 24 2 235.10 24.21 2.08 40.39 999.00 221.10 19.46 2.41 39.00 210.80 6.80 11.18 36.75 999.00 3.92 999.00 2.39 0.00 20 2 24 3 235.20 22.17 2.50 40.52 999.00 220.30 18.01 2.49 39.30 207.80 5.96 11.21 37.06 999.00 3.36 999.00 2.11 0.00																
20 2 24 3 235.20 22.17 2.50 40.52 999.00 220.30 18.01 2.49 39.30 207.80 5.96 11.21 37.06 999.00 3.36 999.00 2.11 0.00																
20 2 24 4 238.80 20.90 1.64 40.12 999.00 225.70 16.89 2.21 38.88 207.60 5.49 9.69 36.22 999.00 3.81 999.00 2.78 0.00																
	20 2 24 4 238.80	20.90 1.6	4 40.12	999.00 225.70	16.89	2.21	38.88	207.60	5.49	9.69	36.22	999.00	3.81	999.00	2.78	0.00

20	2 24 5	239.40	23.34	1.83	39.76	999.00	226.50	19.04	2.35	38.35	218.00	6.86	8.09	36.00	999.00	3.57	999.00	2.35	0.00
20	2 24 6	246.20	20.47	1.60	39.59	999.00	235.90	16.72	1.75	38.87	218.30	6.55	8.84	36.88	999.00	2.68	999.00	1.90	0.00
20	2 24 7	252.10	18.02	2.97	39.41	999.00	243.70	14.31	3.90	39.10	215.50	4.77	9.82	37.57	999.00	1.70	999.00	1.49	0.00
20	2 24 8	240.50	19.36	3.16	39.33	999.00	230.20	16.29	4.28	39.18	221.70	6.77	10.80	37.69	999.00	1.34	999.00	1.12	0.00
20	2 24 9	248.40	16.04	3.50	39.01	999.00	238.60	13.53	3.61	39.00	227.60	6.73	8.87	38.82	999.00	-0.35	999.00	-0.24	0.00
20	2 24 10		13.72	3.90	39.27	999.00	240.50	12.96	4.05		234.50	9.52	6.89	40.90	999.00	-1.54	999.00	-1.03	0.00
20			12.63	3.60	39.70	999.00	231.50	11.86	4.07		225.70	8.17	8.54	41.20	999.00	-1.66	999.00	-1.13	0.00
20			12.24	4.03	40.41	999.00	223.10	11.59	5.22		223.70	8.88	10.22	42.13	999.00	-2.23	999.00	-1.68	0.00
			10.17		41.30	999.00	191.90	9.93	8.51		194.50		12.41		999.00		999.00		0.00
20				7.45								6.66		43.36		-2.07		-1.32	
20			8.76	8.86	41.84		195.40	8.46	8.94		194.90	5.93	14.66	43.97		-2.25	999.00	-1.41	0.00
20			13.02	6.94	43.70	999.00	193.10	12.44	7.19		195.40	7.77	11.76	45.82	999.00	-1.74	999.00	-1.06	0.00
20	2 24 16		10.70	6.75	45.67	999.00	205.10	10.06	8.27		207.60	6.36	14.74	47.37	999.00	-1.68	999.00	-1.12	0.00
20			9.98	5.78	44.70	999.00	204.10	9.39	6.51	45.26		5.24	14.09	46.28	999.00	-1.58	999.00	-1.03	0.00
	2 24 18		11.91	1.62	43.13	999.00	204.50	11.23	2.46		202.40	5.28	11.32	44.49	999.00	-1.19	999.00	-0.65	0.00
20	2 24 19		7.64	1.24	41.12	999.00	183.40	6.85	2.66	41.46	171.20	2.33	8.08	41.63	999.00	-0.52	999.00	-0.26	0.01
20	2 24 20	153.60	6.74	2.69	41.12	999.00	148.40	6.04	2.57	41.46	144.20	2.32	9.60	41.63	999.00	-0.21	999.00	0.08	0.06
20	2 24 21	114.30	7.02	5.25	40.66	999.00	104.90	7.36	3.69	40.90	96.90	3.58	8.86	40.55	999.00	0.47	999.00	0.74	0.03
20	2 24 22	139.30	5.98	8.95	40.47	999.00	125.30	5.95	8.00	40.64	91.50	1.87	16.16	39.46	999.00	1.28	999.00	1.51	0.11
20	2 24 23	101.80	10.71	4.52	39.26	999.00	96.30	10.50	2.86	39.10	97.30	5.30	9.37	37.53	999.00	2.01	999.00	1.51	0.04
20	2 24 24	109.20	14.34	7.20	37.39	999.00	104.10	11.71	6.22	36.07	114.30	5.08	13.03	35.98	999.00	0.20	999.00	-0.35	0.02
20	2 25 1	104.40	17.22	2.69	36.47	999.00	96.40	14.63	3.42	35.78	95.90	6.01	10.62	35.77	999.00	1.68	999.00	0.36	0.01
20	2 25 2	97.90	16.97	1.03	36.99	999.00	88.00	13.16	1.91	36.37	80.20	5.84	8.51	35.92	999.00	1.12	999.00	0.63	0.00
20	2 25 3	66.06	15.05	2.91	36.15	999.00	54.31	15.55	4.37	35.52	46.44	10.79	9.23	35.10	999.00	0.43	999.00	0.30	0.01
20	2 25 4	64.48	21.86	2.23	35.38	999.00	55.88	19.14	3.82	35.06	55.46	10.53	8.98	34.96	999.00	0.21	999.00	-0.26	0.00
20	2 25 5	53.89	19.92	6.39	34.48	999.00	46.60	16.15	8.24	34.49	42.93	13.40	8.68	34.96	999.00	-0.72	999.00	-0.55	0.00
20	2 25 6	48.30	21.64	3.76	34.48	999.00	41.52	19.34	6.52	34.49	42.09	14.43	8.67	34.96	999.00	-0.89	999.00	-0.69	0.00
20	2 25 7	49.86	20.94	5.98	33.47	999.00	42.81	18.45	7.63	33.67	45.99	15.59	8.74	34.50	999.00	-1.11	999.00	-0.86	0.00
20	2 25 8	999.00	999.00	999.00	33.29	999.00	999.00	999.00	999.00	33.54	999.00	999.00	999.00	34.40	999.00	999.00	999.00	-0.84	0.00
	2 25 9	60.35	25.50	4.55	33.15	999.00	53.26	21.43	6.60	33.39	53.75	14.49	8.92	34.28	999.00	-1.30	999.00	-1.09	0.00
	2 25 10	53.32		6.76														-1.09	0.00
			20.09		33.14	999.00	46.52	17.31	8.43	33.47	47.06	13.88	9.96	34.53	999.00		999.00		
	2 25 11	51.37	18.54	6.43	33.10	999.00	44.87	13.21	7.65	33.48	47.13	12.54	8.87	34.65	999.00	-1.94	999.00	-1.13	0.00
	2 25 12	58.84	18.42	3.72	33.33	999.00	50.11	13.83	5.91	33.83	54.63	11.44	9.00	35.39	999.00	-2.05	999.00	-1.25	0.00
	2 25 13	62.31	17.95	4.85	33.61	999.00	54.81	14.80	6.47	34.08	62.56	9.83	11.30	35.61	999.00	-1.89	999.00	-1.14	0.00
	2 25 14	57.37	18.38	4.33	34.16	999.00	50.45	13.87	6.31	34.55	55.57	10.62	9.28	36.03	999.00	-1.77	999.00	-0.98	0.00
	2 25 15	46.56	19.98	5.55	34.90	999.00	39.73	14.88	7.26	35.25	40.75	11.30	9.54	36.44	999.00	-1.41	999.00	-1.15	0.00
	2 25 16	38.09	24.32	2.77	34.75	999.00	31.13	18.42	6.00	34.86	38.53	12.26	10.58	35.92	999.00	-1.28	999.00	-0.97	0.00
	2 25 17	37.06	27.19	1.44	34.90	999.00	30.46	21.03	4.35	35.03	37.64	14.28	9.17	35.62	999.00	-0.62	999.00	-0.71	0.00
	2 25 18	36.87	28.97	1.13	34.85	999.00	29.64	22.84	3.81	35.08	37.52	14.84	9.53	35.48	999.00	-0.65	999.00	-0.90	0.00
	2 25 19	41.57	29.06	2.13	34.11	999.00	34.17	21.34	5.81	34.89	41.49	13.72	9.70	34.88	999.00	-0.85	999.00	-0.34	0.04
20	2 25 20	41.99	26.32	3.12	33.49	999.00	34.57	19.74	6.21	34.49	43.05	12.79	10.29	34.51	999.00	-1.07	999.00	-0.35	0.05
20	2 25 21	39.11	21.77	1.89	32.41	999.00	32.74	16.75	4.34	33.16	38.91	11.09	8.96	33.31	999.00	-0.56	999.00	-0.11	0.03
20																		0 00	0.03
20	2 25 22	37.25	24.36	2.63	31.76	999.00	30.47	19.83	4.65	32.11	35.82	14.38	9.78	32.42	999.00	-0.83	999.00	-0.32	0.05
	2 25 22 2 25 23	37.25 29.96	24.36 25.66	2.63 6.23		999.00 999.00	30.47 24.31	19.83 22.46	4.65 6.86	32.11 31.88	35.82 29.92	14.38 16.86	9.78 11.20		999.00		999.00 999.00	-0.32 -0.63	0.00
20	2 25 23	29.96	25.66	6.23	31.49	999.00	24.31	22.46	6.86	31.88	29.92	16.86	11.20	32.53	999.00	-1.13	999.00	-0.63	0.00
		29.96 29.48	25.66 23.87	6.23 7.10	31.49 30.84	999.00 999.00	24.31 22.91	22.46 21.07	6.86 7.81	31.88 31.27	29.92 25.47	16.86 16.90	11.20 10.53	32.53 32.06	999.00 999.00	-1.13 -1.29	999.00 999.00	-0.63 -0.90	0.00 0.01
20	2 25 23 2 25 24 2 26 1	29.96 29.48 30.31	25.66 23.87 22.99	6.23 7.10 6.69	31.49 30.84 999.00	999.00 999.00 999.00	24.31 22.91 23.31	22.46 21.07 20.00	6.86 7.81 8.62	31.88 31.27 999.00	29.92 25.47 24.97	16.86 16.90 15.61	11.20 10.53 10.00	32.53 32.06 31.99	999.00 999.00 999.00	-1.13 -1.29 -1.30	999.00 999.00 999.00	-0.63 -0.90 -0.90	0.00 0.01 0.00
20 20	2 25 23 2 25 24 2 26 1 2 26 2	29.96 29.48 30.31 31.92	25.66 23.87 22.99 24.25	6.23 7.10 6.69 4.47	31.49 30.84 999.00 30.64	999.00 999.00 999.00	24.31 22.91 23.31 24.92	22.46 21.07 20.00 21.54	6.86 7.81 8.62 6.55	31.88 31.27 999.00 31.11	29.92 25.47 24.97 28.43	16.86 16.90 15.61 16.16	11.20 10.53 10.00 10.69	32.53 32.06 31.99 31.93	999.00 999.00 999.00 999.00	-1.13 -1.29 -1.30 -1.28	999.00 999.00 999.00 999.00	-0.63 -0.90 -0.90 -0.90	0.00 0.01 0.00 0.00
20 20 20	2 25 23 2 25 24 2 26 1 2 26 2 2 26 3	29.96 29.48 30.31 31.92 31.55	25.66 23.87 22.99 24.25 21.77	6.23 7.10 6.69 4.47 4.99	31.49 30.84 999.00 30.64 30.58	999.00 999.00 999.00 999.00	24.31 22.91 23.31 24.92 25.12	22.46 21.07 20.00 21.54 19.93	6.86 7.81 8.62 6.55 6.11	31.88 31.27 999.00 31.11 31.04	29.92 25.47 24.97 28.43 31.86	16.86 16.90 15.61 16.16 14.24	11.20 10.53 10.00 10.69 10.72	32.53 32.06 31.99 31.93 31.83	999.00 999.00 999.00 999.00	-1.13 -1.29 -1.30 -1.28 -1.25	999.00 999.00 999.00 999.00	-0.63 -0.90 -0.90 -0.90 -0.91	0.00 0.01 0.00 0.00
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20 2 27 24 273.30	20 2 27 22 277.20	17.40 2.76	21.13 999.00	265.60 14.	96 4.39	21.38	263.10	8.27	8.69	21.80	999.00	-0.39	999.00	-0.29	0.00
20	20 2 27 23 265.40	16.88 4.43	21.13 999.00	255.60 14.	41 5.76	21.38	252.70	8.93	8.16	21.80	999.00	-0.67	999.00	-0.57	0.00
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20 2 28 12 283.70 21.94 5.10 21.51 999.00 276.50 20.93 5.86 22.04 278.60 15.99 9.34 24.00 999.00 -2.49 999.00 -1.77 0.00															
	20 2 28 12 283.70	21.94 5.10	21.51 999.00	276.50 20.	93 5.86	22.04	278.60	15.99	9.34	24.00	999.00	-2.49	999.00	-1.77	0.00

20 2 28 13 280.60			999.00 274.60	21.71	7.43	23.08 2		16.25	10.16		999.00		999.00	-1.95	0.00
20 2 28 14 278.80		.09 23.29	999.00 272.80	22.23	8.00	23.87 2		16.80	11.93	25.94	999.00			-2.04	0.00
20 2 28 15 270.20		.41 24.05	999.00 262.20	23.48	6.66	24.63 2		17.09	11.71	26.61	999.00		999.00	-1.76	0.00
20 2 28 16 267.30		.88 24.65	999.00 260.30	25.06	6.45	25.23 2		18.62	10.57	27.13	999.00		999.00	-1.39	0.00
20 2 28 17 269.60	25.60 5	.28 24.72	999.00 263.00	24.39	6.58	25.27 2		17.14	11.47	26.85	999.00	-2.07	999.00	-1.27	0.00
20 2 28 18 275.20	22.16 5	.51 24.29	999.00 267.10	20.51	6.20	24.75 2	270.80	14.11	9.96	26.05	999.00	-1.41	999.00	-0.93	0.00
20 2 28 19 276.60	23.16 5	.45 23.44	999.00 269.40	21.02	6.49	23.75 2	273.50	12.74	10.14	24.45	999.00	-0.87	999.00	-0.59	0.00
20 2 28 20 272.30	22.31 4	.75 22.56	999.00 264.40	19.61	5.77	22.86 2	267.80	12.20	9.31	23.37	999.00	-0.87	999.00	-0.68	0.00
20 2 28 21 276.90	21.33 4	.94 21.84	999.00 268.20	18.90	5.75	22.13 2	269.00	11.85	9.36	22.76	999.00	-0.96	999.00	-0.81	0.00
20 2 28 22 279.30	20.34 4	.59 21.42	999.00 270.80	18.15	5.54	21.73 2	271.00	11.65	9.38	22.47	999.00	-0.94	999.00	-0.75	0.00
20 2 28 23 285.50	19.61 4	.64 21.11	999.00 276.70	17.93	5.84	21.38 2	275.70	11.28	10.41	22.13	999.00	-1.05	999.00	-0.81	0.00
20 2 28 24 276.10			999.00 267.10	17.46	5.29	21.38 2		10.52	9.50	22.13	999.00	-0.86	999.00	-0.67	0.00
20 2 29 1 273.60		.74 20.24	999.00 261.40	15.66	4.56	20.47 2		9.64	9.26	21.17	999.00	-0.90	999.00	-0.81	0.00
20 2 29 2 270.20		.08 19.60	999.00 258.50	16.01	5.73	19.82 2		10.70	9.37	20.67	999.00	-1.11	999.00	-0.92	0.00
20 2 29 3 279.90		.69 19.79	999.00 268.70	16.57	7.25	19.96 2		9.95	10.79	20.60	999.00	-0.58	999.00	-0.40	0.00
20 2 29 4 270.20		.97 18.82	999.00 257.90	18.44	3.27	18.94 2		11.59	7.84	19.36	999.00	-0.59	999.00	-0.69	0.00
20 2 29 4 270.20					4.81	18.24 2			8.77	18.67			999.00		0.00
20 2 29 3 2/6./0				15.82				9.43			999.00	-0.20		-0.37	
20 2 29 6 295.70		.39 18.21	999.00 278.20	17.29	4.39	18.10 2		9.20	8.60	17.93	999.00	0.90	999.00	0.69	0.00
20 2 29 7 293.60		.28 18.58	999.00 275.40	17.08	5.66	18.59 2		9.76	7.37	17.73	999.00	0.94	999.00	0.67	0.00
20 2 29 8 292.20		.74 17.95	999.00 274.70	17.50	5.59	17.72 2		9.75	8.77	17.52	999.00	0.15	999.00	-0.36	0.00
20 2 29 9 283.50		.91 18.72	999.00 270.20	14.02	5.96	18.56 2		9.67	10.18	19.77	999.00	-2.04	999.00	-1.46	0.00
20 2 29 10 281.00		.73 19.72	999.00 270.00	13.31	8.41	20.21 2		9.61	12.33	22.13	999.00	-2.63	999.00	-1.77	0.00
20 2 29 11 270.50		.08 21.37	999.00 257.90	13.58	6.68	22.01 2		11.37	9.76	24.23	999.00	-2.75	999.00	-1.60	0.00
20 2 29 12 300.10	19.32 7	.01 23.60	999.00 293.30	18.96	7.61	24.10 2	294.70	14.43	12.70	26.43	999.00	-2.76	999.00	-2.45	0.00
20 2 29 13 274.70	14.94 8	.53 24.70	999.00 268.20	14.30	8.59	25.32 2	271.60	11.07	14.01	27.51	999.00	-3.06	999.00	-2.24	0.00
20 2 29 14 255.80	17.49 6	.93 25.61	999.00 249.00	17.15	7.50	26.29 2	250.20	13.49	10.23	28.56	999.00	-2.96	999.00	-1.89	0.00
20 2 29 15 252.20	16.45 6	.89 26.37	999.00 245.30	16.26	6.88	26.94 2	248.90	13.71	9.67	29.10	999.00	-2.62	999.00	-1.86	0.00
20 2 29 16 255.00	19.17 4	.40 27.40	999.00 248.30	18.80	4.89	27.97 2	251.50	13.82	10.24	30.00	999.00	-2.63	999.00	-1.64	0.00
20 2 29 17 247.40	20.15 5	.49 27.85	999.00 240.40	19.51	5.05	28.40 2	243.80	15.08	8.54	30.20	999.00	-2.11	999.00	-1.33	0.00
20 2 29 18 251.10	20.09 4	.57 27.85	999.00 243.40	19.60	4.11	28.40 2	246.80	14.74	8.20	30.20	999.00	-1.54	999.00	-0.97	0.00
20 2 29 19 242.40		.61 26.92	999.00 235.20	18.92	4.00	27.26 2		12.08	8.05	28.02	999.00	-0.90	999.00	-0.69	0.00
20 2 29 20 239.30		.21 25.81	999.00 230.60	17.78	4.90	26.08 2		10.90	9.66	26.53	999.00	-0.64	999.00	-0.43	0.00
20 2 29 21 245.90		.54 24.95	999.00 236.60	17.14	3.63	25.12 2		10.86	7.53	25.38	999.00	-0.40	999.00	-0.33	0.00
20 2 29 22 251.80		.12 24.45	999.00 243.20	19.60	3.77	24.65 2		13.22	7.65	25.02	999.00	-0.66	999.00	-0.57	0.00
20 2 29 23 259.30		.26 23.90	999.00 248.50	14.71	3.57	24.01 2		9.08	7.72	24.40	999.00	-0.27	999.00	-0.10	0.00
20 2 29 24 255.20		.23 23.22	999.00 245.20	11.47	4.37	23.39 2		7.70	6.88	23.47	999.00	-0.48	999.00	-0.21	0.00
20 3 1 1 246.90		.36 22.16	999.00 236.70	11.72	3.36	22.14 2		6.68	8.62	22.13	999.00		999.00	0.14	0.00
20 3 1 2 246.60		.36 21.56		11.75	4.51	21.83 2		4.46	8.87	20.94	999.00	0.86	999.00	1.12	0.00
20 3 1 3 241.60		.66 21.51	999.00 222.90	12.71	5.28	21.67 2		4.91	10.31	20.56	999.00	1.04	999.00	1.40	0.00
20 3 1 4 247.20		.40 22.69	999.00 226.80	13.85	2.61	22.91 2		4.73	10.30	20.40	999.00	3.44	999.00	3.59	0.00
20 3 1 5 222.30		.76 22.69	999.00 208.90	15.10	1.11	22.91 1		5.90	9.62	20.40	999.00	2.57	999.00	4.30	0.00
20 3 1 6 208.50		.14 24.71	999.00 196.00	17.64	0.91	25.43 1		4.91	8.33	21.12	999.00	4.12	999.00	4.79	0.00
20 3 1 7 198.60			999.00 176.80	17.86	2.73	24.01 1		6.07	12.43		999.00		999.00	1.34	0.00
20 3 1 8 203.90	24.10 1	.79 27.38	999.00 187.50	17.84	3.28			6.50	12.42	22.41	999.00	5.75		1.33	0.00
20 3 1 9 194.00	18.17 2		999.00 182.20	14.20	3.60	24.95 1	181.20	6.96	13.97	25.49	999.00	0.01	999.00	-0.18	0.00
20 3 1 10 191.20	15.20 4	.99 28.26	999.00 183.50	12.57	6.35	28.18 1		6.76	15.37	29.87	999.00	-2.45	999.00	-1.10	0.00
20 3 1 11 195.80	15.67 4	.96 31.04	999.00 189.90	14.60	5.88	31.61 1	L96.90	9.47	13.46	33.83	999.00	-2.79	999.00	-1.08	0.00
20 3 1 12 189.20	14.11 5	.80 33.92	999.00 182.80	13.42	6.66	34.50 1		9.54	13.57	36.81	999.00	-3.20	999.00	-1.38	0.00
20 3 1 13 183.50	18.43 4		999.00 177.00	17.12	5.94	36.76 1		9.18	17.04		999.00		999.00	-1.28	0.00
20 3 1 14 178.10			999.00 172.80	21.23	5.47	38.93 1		11.40	14.04		999.00		999.00	-1.43	0.00
20 3 1 15 180.90			999.00 175.30	20.56	6.27			11.66	15.76		999.00		999.00	-1.38	0.00
20 3 1 16 182.90			999.00 176.70	21.18	5.20				15.02		999.00		999.00	-0.88	0.00
, , = 10 102.30			1,1111 1,01,70							• · -			222.00		

20	3 1 1	7 186.80	22.79	4.98	44.93	999.00	179.80	20.09	5.15	45.30	185.90	10.32	14.89	46.25	999.00	-1.33	999.00	-0.56	0.00
20	3 1 1	8 186.20	27.17	4.74	45.67	999.00	180.10	23.60	5.24	46.00	187.70	12.53	12.73	46.67	999.00	-0.60	999.00	-0.16	0.00
20	3 1 1	9 188.60	29.57	4.57	45.79	999.00	181.50	25.90	5.13	45.87	190.00	13.45	12.65	45.67	999.00	0.35	999.00	0.30	0.00
20	3 1 2	191.70	29.30	3.68	45.79	999.00	184.50	25.74	4.30	45.87	193.20	13.01	10.67	45.67	999.00	0.96	999.00	0.79	0.00
		196.00	27.10	3.97	46.22	999.00	189.10	23.93	5.23		197.60	11.80	13.89	45.32	999.00	0.91	999.00	0.61	0.00
		2 200.40	27.39	3.83	46.85		193.10	24.24	4.77		203.40	10.24	13.06	45.87	999.00	0.92	999.00	0.56	0.00
		203.10	30.51	3.63	46.85	999.00	196.00	26.59	4.04		201.70	12.30	12.55	45.87	999.00	1.14	999.00	0.89	0.00
		24 211.00	27.87	3.74	47.73	999.00	204.40	23.79	4.81	47.57	213.20	11.72	13.89	46.99	999.00	0.48	999.00	0.31	0.00
		1 211.60	26.47	3.25	47.50	999.00	203.10	22.91	3.91		205.50	9.73	13.45	46.89	999.00	0.71	999.00	0.58	0.00
		2 212.80	26.97	3.62	47.54	999.00	205.80	22.86	4.10		210.60	9.85	13.58	46.53	999.00	0.95	999.00	0.51	0.00
		3 216.90	30.03	3.37	48.36	999.00	208.50	25.63	4.15	48.07		12.19	12.41	47.59	999.00	1.00	999.00	0.76	0.00
		4 218.80	29.48	2.76	48.38	999.00	208.10	25.33	3.43		205.20	10.64	12.30	45.09	999.00	4.04	999.00	4.35	0.02
20		5 219.10	23.00	3.64	49.14	999.00	211.10	19.58	4.45		212.70	8.18	13.36	46.06	999.00	2.65	999.00	3.00	0.00
20	3 2	6 240.50	23.43	3.57	49.35	999.00	234.90	20.94	3.58	49.06	240.10	11.83	6.27	47.34	999.00	1.95	999.00	2.28	0.00
20	3 2	7 231.80	18.38	5.06	47.21	999.00	225.60	15.82	4.39	47.26	223.50	6.64	11.32	45.85	999.00	1.60	999.00	1.97	0.06
20	3 2	8 222.40	21.02	4.71	46.66	999.00	215.40	18.86	5.01	46.71	219.60	9.22	13.19	45.38	999.00	0.57	999.00	0.82	0.00
20	3 2	9 216.90	20.31	4.47	45.29	999.00	209.90	17.74	4.70	45.57	214.90	8.67	14.11	45.21	999.00	-0.31	999.00	0.17	0.02
20	3 2 1		22.34	4.00	44.80	999.00	203.00	20.12	3.84	45.29	204.80	9.56	12.41	45.21	999.00	-0.32	999.00	0.19	0.04
	3 2 1		22.88	4.14	44.72	999.00	203.90	20.18	4.60	45.25	208.00	9.66	13.77	45.32	999.00	-0.59	999.00	-0.01	0.07
	3 2 1		20.58	4.86	45.43	999.00	206.10	18.09	5.20	45.88	210.90	9.07	13.73	46.15	999.00	-0.69	999.00	-0.04	0.01
	3 2 1		18.52	4.90	46.67	999.00	219.70	16.60	5.78		228.80	9.07	12.92	47.25	999.00	-0.67	999.00	-0.21	0.00
	3 2 1		18.08	4.21	46.96	999.00	225.10	16.53	4.45		228.70	8.78	10.26	47.56	999.00	-0.60	999.00	-0.12	0.00
	3 2 1		16.25	4.64	47.29	999.00	240.10	14.95	4.57		241.40	8.52	7.83	47.85	999.00	-0.33	999.00	0.41	0.00
	3 2 1		14.58	5.15	47.47	999.00	244.70	13.21	4.56		246.10	7.60	8.18	47.55	999.00	-0.08	999.00	0.55	0.00
							244.70	12.92				8.22	9.01						0.00
			13.41	4.83	47.91	999.00			4.15		247.90			48.39	999.00	-1.00	999.00	0.29	
	3 2 1		16.28	5.30	47.91	999.00	238.10	15.64	5.36		238.90	9.88	8.98	48.39	999.00	-1.39	999.00	0.73	0.00
	3 2 1		19.37	3.63	47.12	999.00	239.80	17.66	3.64		243.70	10.43	7.73	47.65	999.00	-0.07	999.00	1.04	0.00
	3 2 2		17.78	3.53	46.41	999.00	238.30	15.82	3.79		243.60	8.16	7.27	46.12	999.00	0.37	999.00	0.83	0.00
	3 2 2		19.57	2.28	46.27	999.00	256.60	17.08	3.24		260.40	7.95	8.52	45.88	999.00	0.72	999.00	0.52	0.00
		249.00	12.68	2.34	46.27	999.00	236.20	10.62	2.66		208.10	4.25	15.18	45.88	999.00	1.50	999.00	1.39	0.00
	3 2 2		13.63	5.30	45.85	999.00	231.50	11.66	5.34		215.30	999.00	10.09	43.17	999.00	2.45	999.00	1.73	0.00
20	3 2 2	262.90	17.14	3.16	45.35	999.00	249.00	13.46	3.02	44.72	230.20	4.46	7.75	42.49	999.00	3.27	999.00	2.02	0.00
20	3 3	1 257.00	10.34	3.13	44.01	999.00	240.20	9.08	3.26	43.62	208.90	2.84	10.24	41.88	999.00	2.16	999.00	1.60	0.00
20	3 3	2 242.20	7.01	4.77	43.62	999.00	228.30	7.60	4.27	43.55	172.10	3.59	8.74	41.73	999.00	2.13	999.00	2.40	0.00
20	3 3	3 244.40	1.88	33.19	43.51	999.00	227.50	3.08	8.98	43.66	118.40	1.93	17.39	40.77	999.00	2.98	999.00	3.05	0.00
20	3 3	4 197.80	4.20	8.10	43.54	999.00	196.10	5.43	3.60	43.64	189.90	1.12	31.26	40.82	999.00	2.67	999.00	2.69	0.00
20	3 3	5 183.30	4.40	10.18	43.47	999.00	183.90	4.16	10.97	43.83	61.24	1.76	38.70	40.55	999.00	3.02	999.00	2.86	0.00
20	3 3	6 148.20	5.37	6.29	43.89	999.00	141.10	6.00	3.59	44.17	66.68	3.71	11.09	41.15	999.00	4.06	999.00	4.32	0.00
20	3 3	7 121.30	5.77	5.96	44.10	999.00	113.80	5.38	3.86	43.96	48.39	3.16	11.84	39.59	999.00	5.03	999.00	4.36	0.00
20	3 3	8 102.60	5.11	8.62	44.10	999.00	67.78	4.82	4.57	43.96	38.56	3.44	9.26	39.59	999.00	5.12	999.00	4.82	0.00
		9 65.07	4.75	36.51	42.57	999.00	30.55	4.91	35.89	42.07	4.87	3.82	44.33	38.42	999.00	3.07	999.00	1.97	0.00
		.0 142.20	1.99	75.30	41.13	999.00	19.11	3.08	28.69	39.93	349.20	1.78	50.58	37.75	999.00	2.55	999.00	1.85	0.00
		1 276.80	9.44	5.65		999.00	283.20	7.46	8.26	40.45	293.90	5.06	7.95		999.00		999.00	1.30	0.00
		270.00	17.66	3.03		999.00		13.33	3.97		278.70	4.94	9.82		999.00		999.00	0.16	0.00
		3 269.80	17.05	6.00		999.00		15.35	7.69		265.50	9.51	10.65		999.00		999.00	-1.22	0.00
		4 254.90	20.06	3.69		999.00		19.20	4.20		250.90	13.35	9.02		999.00		999.00	-0.37	0.00
		5 265.00	23.02	6.54				21.69	7.14		259.00	15.65	12.21		999.00		999.00	0.33	0.00
		6 262.50	24.22	4.40				22.72	5.55		259.90	16.34	9.60		999.00		999.00	-1.11	0.00
		7 261.90	21.16	5.22		999.00		19.88	6.18		258.40	13.45	10.73		999.00		999.00	-0.91	0.00
		8 270.70	20.49	9.22				18.75	9.95		268.70	12.63	11.61		999.00		999.00	-0.72	0.00
		9 271.10	26.92	4.69		999.00		23.85	5.66		265.60	14.00	10.99		999.00		999.00	-0.19	0.00
20	3 3 2	270.20	23.70	4.19	43.70	999.00	260.30	21.66	5.10	43.97	261.40	13.15	9.45	44.30	999.00	-0.33	999.00	-0.21	0.00

00 0 01 070 00	00 55 5 22	41 04 000 00 06	00 17 00	6 00	40 10 004 40	10 24	10.00	40 25 000 00	0 07 000 00	0 00	0 00
20 3 3 21 273.00	20.55 5.33	41.84 999.00 264		6.22	42.10 264.40	10.34	10.22	42.35 999.00	-0.37 999.00	-0.08	0.00
20 3 3 22 278.00	21.41 5.11	40.83 999.00 269		5.99	41.01 269.20	11.36	10.03	41.03 999.00	-0.34 999.00	-0.22	0.00
20 3 3 23 271.40	19.20 3.66	40.83 999.00 261		4.29	41.01 257.10	8.61	9.59	41.03 999.00	0.16 999.00	0.32	0.00
20 3 3 24 276.60	20.62 3.58	39.48 999.00 266		4.32	39.53 265.20	9.50	9.29	39.24 999.00	0.28 999.00	0.28	0.00
20 3 4 1 265.20 20 3 4 2 261.10	20.90 4.32	38.95 999.00 253		4.80	38.86 246.70	9.24	7.29	38.32 999.00	0.93 999.00	0.53	0.00
	21.01 2.38	38.95 999.00 251 37.50 999.00 244		3.02	38.86 252.80 37.39 236.50	9.34	7.44 6.10	38.32 999.00	0.56 999.00	0.29	0.00
	19.27 2.55 14.43 3.94	37.50 999.00 244 36.73 999.00 214		2.83 3.70	36.54 207.10	9.63 5.13	10.95	36.93 999.00 35.89 999.00	0.82 999.00 0.53 999.00	0.61 0.50	0.00
20 3 4 4 227.30 20 3 4 5 228.80	16.62 2.37	36.73 999.00 214		2.72	36.54 207.10	5.13	11.32	35.89 999.00	1.14 999.00	0.50	0.00
	18.59 2.93	35.26 999.00 221		3.55	34.99 220.10		12.96	34.22 999.00	0.76 999.00		0.00
20 3 4 6 230.90 20 3 4 7 228.00	18.81 3.39	36.03 999.00 218		3.84	35.94 217.70	6.47 7.06	12.98	35.78 999.00	-0.01 999.00	0.34 0.05	0.00
20 3 4 7 228.00	18.84 4.46	36.60 999.00 233		4.81	36.45 230.70	8.87	10.81	36.08 999.00	0.33 999.00	0.03	0.00
20 3 4 9 248.00	18.28 3.99	36.94 999.00 240		4.28	36.98 241.30	9.61	8.47	37.29 999.00	-0.81 999.00	-0.65	0.00
20 3 4 10 264.70	13.77 5.40	37.64 999.00 255		5.48	38.07 256.60	9.64	10.22	39.26 999.00	-1.68 999.00	-1.19	0.00
20 3 4 10 204.70	10.89 10.62	37.55 999.00 276		11.49	38.09 283.80	8.20	17.25	39.37 999.00	-1.79 999.00	-1.25	0.00
20 3 4 12 251.80	9.57 6.96	36.18 999.00 244		7.68	36.66 245.40	6.70	10.48	37.82 999.00	-1.64 999.00	-1.23	0.00
20 3 4 13 251.80	12.07 8.64	36.67 999.00 243		8.13	37.25 246.90	9.44	11.65	39.09 999.00	-3.27 999.00	-2.06	0.00
20 3 4 14 314.10	16.28 16.71	38.72 999.00 306		16.99	39.35 310.90	10.54	20.23	41.20 999.00	-1.98 999.00	-1.45	0.00
20 3 4 15 317.70	19.46 4.57	38.50 999.00 311		5.26	38.94 318.10	13.42	10.15	40.24 999.00	-2.16 999.00	-1.97	0.00
20 3 4 16 277.10	18.06 5.78	39.93 999.00 268		7.59	40.46 269.50	11.67	12.23	41.88 999.00	-1.73 999.00	-1.18	0.00
20 3 4 17 286.10	13.48 7.74	41.82 999.00 281		8.18	42.35 281.70	9.17	11.83	43.51 999.00	-1.84 999.00	-1.14	0.00
20 3 4 18 266.90	13.84 4.24	42.80 999.00 259		5.40	43.39 263.10	8.34	9.81	44.68 999.00	-1.62 999.00	-0.78	0.00
20 3 4 19 271.70	12.63 4.25	42.76 999.00 261		4.59	43.07 252.40	5.90	7.05	43.13 999.00	0.58 999.00	0.84	0.00
20 3 4 20 278.10	19.63 1.96	42.26 999.00 269		3.06	42.21 277.50	6.59	14.54	41.03 999.00	1.76 999.00	1.58	0.00
20 3 4 21 292.20	20.67 1.37	40.62 999.00 282		1.92	40.31 275.90	7.89	7.33	38.52 999.00	2.16 999.00	1.73	0.00
20 3 4 22 305.70	23.09 3.77	38.98 999.00 297		4.36	39.05 297.70	11.46	9.11	37.85 999.00	0.34 999.00	0.60	0.00
20 3 4 23 309.40	20.24 3.28	37.54 999.00 299		3.87	37.70 294.90	8.61	7.22	36.93 999.00	0.86 999.00	1.10	0.00
20 3 4 24 330.90	18.33 3.24	36.35 999.00 322		4.27	36.50 325.50	9.06	8.57	35.87 999.00	-0.01 999.00	0.28	0.00
20 3 5 1 4.27	14.45 1.42	35.22 999.00 356	70 12.91	2.05	35.26 357.10	5.11	7.13	34.76 999.00	0.56 999.00	0.59	0.00
20 3 5 2 353.60	9.48 3.33	34.20 999.00 334	.50 7.75	4.10	34.19 284.00	2.87	10.97	33.38 999.00	1.03 999.00	1.29	0.00
20 3 5 3 356.80	6.53 6.78	34.20 999.00 333	.00 6.08	6.18	34.19 273.10	2.21	9.32	33.38 999.00	0.82 999.00	1.18	0.00
20 3 5 4 359.20	7.92 2.01	33.17 999.00 340	.50 8.12	1.68	33.26 301.90	3.13	5.58	31.38 999.00	2.24 999.00	2.49	0.00
20 3 5 5 36.68	6.48 7.74	32.72 999.00 15	.65 5.76	7.79	32.86 245.20	1.40	14.88	30.76 999.00	1.90 999.00	1.85	0.00
20 3 5 6 108.10	7.22 11.10	32.49 999.00 95	.90 5.84	11.05	32.43 172.30	2.65	22.65	29.77 999.00	3.34 999.00	3.43	0.00
20 3 5 7 138.50	10.01 3.16	32.49 999.00 126	.90 8.85	3.69	32.43 173.50	2.31	9.27	29.77 999.00	3.73 999.00	3.65	0.00
20 3 5 8 162.60	13.89 0.82	32.70 999.00 156		1.21	32.36 175.70	2.65	12.59	28.95 999.00	3.30 999.00	2.83	0.00
20 3 5 9 174.60	12.36 1.83	32.18 999.00 169	.60 9.70	3.25	31.50 178.00	5.03	13.89	31.51 999.00	-1.14 999.00	-0.69	0.00
20 3 5 10 176.80	12.25 5.48	33.18 999.00 172		5.49	33.72 179.40	7.18	15.54	35.87 999.00	-3.08 999.00	-1.30	0.00
20 3 5 11 185.40	13.89 6.94	33.18 999.00 178	.60 13.25	6.63	33.72 185.80	9.47	14.55	35.87 999.00	-3.24 999.00	-1.50	0.00
20 3 5 12 212.70	12.94 7.43	38.34 999.00 208		7.80	38.99 212.40	9.50	17.85	41.79 999.00	-3.44 999.00	-1.72	0.00
20 3 5 13 198.80	13.91 8.07	40.54 999.00 192		8.74	41.21 200.50	9.81	16.87	43.79 999.00	-3.35 999.00	-1.87	0.00
20 3 5 14 205.00	14.61 9.98	42.12 999.00 200		11.02	42.83 207.30	9.42	18.99	45.78 999.00	-3.66 999.00	-1.77	0.00
20 3 5 15 203.10	10.80 12.43	45.31 999.00 196		13.00	46.02 204.20	7.48	21.06	48.77 999.00	-3.36 999.00	-2.01	0.00
	12.30 7.38			8.50	47.26 193.40			49.87 999.00	-3.30 999.00	-1.58	0.00
20 3 5 17 183.30	9.72 7.29	47.63 999.00 178		9.09	48.30 186.40		14.36	50.14 999.00	-1.78 999.00	-0.89	0.00
20 3 5 18 139.30	13.06 4.24	46.04 999.00 119		3.76	44.45 114.00	8.30	11.78	41.46 999.00	5.01 999.00	1.29	0.00
20 3 5 19 165.90	15.14 3.42	43.33 999.00 142		1.73	39.99 122.20	6.22	12.11	38.90 999.00	5.03 999.00	2.28	0.00
20 3 5 20 171.60	14.19 1.52	45.43 999.00 151		2.96	43.22 121.00	7.08	9.73	38.36 999.00	7.99 999.00	7.71	0.00
20 3 5 21 216.40	10.55 35.94	44.47 999.00 227		35.21	44.85 289.80	5.77	38.75	38.56 999.00	3.50 999.00	2.25	0.00
20 3 5 22 304.30	14.94 3.98	41.83 999.00 295		4.53	42.05 293.10	8.17	8.30	42.09 999.00	-0.37 999.00	-0.55	0.00
20 3 5 23 229.10	3.09 14.44	39.55 999.00 255		11.37	39.57 305.70	2.05	8.47	38.86 999.00	1.03 999.00	0.22	0.00
20 3 5 24 262.20	10.68 4.71	38.67 999.00 254	.80 9.51	5.50	38.84 262.70	5./9	11.78	38.40 999.00	-0.21 999.00	-0.37	0.00

0.0	_		0.51 50	44.40	0 60	20.00	00000	000 50	10 10	4 0 6	00 55	001 00	4 55		0.0	000 00	1 60	000 00	1 0 0	0 00
20			251.50	11.49	2.62		999.00		10.47	4.06		231.30	4.55	6.14		999.00		999.00	1.26	0.00
20			254.80	16.41	2.43	38.59	999.00	241.10	13.36	2.29		239.40	7.72	5.04	36.70	999.00	1.76	999.00	0.69	0.00
20			259.80	17.68	3.38	38.59	999.00		15.04	3.23		237.70	7.07	7.24	36.70	999.00	2.91		1.24	0.00
20		6 4	264.50	15.46	4.86	37.49	999.00	250.90	13.09	4.66		242.30	7.50	7.17	35.92	999.00	0.56	999.00	-0.23	0.00
20		6 5	278.50	15.12	4.94	36.49	999.00	267.00	12.70	5.76		264.70	6.80	9.00	36.65	999.00	-0.29	999.00	-0.38	0.00
20		6 6	295.80	14.59	3.24	36.13	999.00	287.50	13.24	3.31		283.90	6.79	7.58	36.50	999.00	-0.26	999.00	-0.21	0.00
20		6 7	288.10	13.67	3.91	35.97	999.00	277.80	11.71	5.02		271.70	6.24	10.45	36.31	999.00	-0.51	999.00	-0.65	0.00
20	3	6 8	296.10	15.69	5.73	35.49	999.00	287.30	14.17	6.37		283.00	8.61	9.52	36.33	999.00	-0.86	999.00	-0.80	0.00
20	3	6 9	307.90	15.88	6.47	35.53	999.00	301.40	15.08	6.32	36.02	303.80	10.47	11.35	36.86	999.00	-1.58	999.00	-1.29	0.00
20	3	6 10	307.20	17.00	6.89	35.19	999.00	300.10	15.89	6.99	35.68	301.30	11.02	10.73	36.53	999.00	-1.21	999.00	-0.73	0.00
20	3	6 11	315.20	21.82	4.73	999.00	999.00	307.60	20.76	4.89	999.00	311.00	14.24	11.65	36.75	999.00	-1.39	999.00	-0.79	0.00
20	3	6 12	339.70	23.55	5.29	35.42	999.00	331.00	20.76	6.30	35.84	333.80	14.05	9.64	36.76	999.00	-1.34	999.00	-0.76	0.00
20	3	6 13	347.10	27.20	4.28	34.57	999.00	338.10	24.85	5.69	35.07	344.60	16.22	7.75	36.01	999.00	-1.31	999.00	-0.31	0.00
20	3	6 14	346.10	28.55	3.60	34.57	999.00	337.20	26.33	4.74	35.07	343.10	18.00	8.03	36.01	999.00	-1.63	999.00	-0.95	0.00
20	3	6 15	343.40	32.72	4.59	33.30	999.00	335.30	30.15	5.26	33.90	340.70	20.93	8.59	34.75	999.00	-1.03	999.00	-0.66	0.00
20	3	6 16	346.50	30.87	3.90	32.86	999.00	338.80	29.07	5.03	33.47	344.60	21.08	7.77	34.74	999.00	-2.04	999.00	-1.18	0.00
20	3	6 17	353.30	28.38	5.10	32.47	999.00	345.30	26.49	6.01	33.05	353.30	18.94	8.06	34.44	999.00	-1.89	999.00	-1.23	0.00
20	3	6 18	351.90	27.37	4.30	32.13	999.00	344.60	25.75	5.55	32.67	353.80	18.38	7.62	33.92	999.00	-1.72	999.00	-1.19	0.00
20	3	6 19	4.16	27.63	3.74	31.50	999.00	357.30	26.50	5.25	32.02	4.60	19.22	7.80	33.24	999.00	-1.77	999.00	-1.21	0.00
20	3	6 20	355.80	25.21	4.97	31.03	999.00	348.80	23.97	6.05	31.54	355.40	17.36	7.64	32.73	999.00	-1.68	999.00	-1.20	0.00
20	3	6 21	13.96	26.79	6.08	31.03	999.00	7.01	25.75	7.71	31.54	14.81	19.85	8.74	32.73	999.00	-1.79	999.00	-1.25	0.00
20	3	6 22	13.68	21.94	6.66	29.79	999.00	6.08	20.91	7.49	30.31	13.57	16.76	9.09	31.54	999.00	-1.74	999.00	-1.25	0.00
20	3	6 23	357.00	22.08	5.97	29.58	999.00	349.50	20.98	6.99	30.10	355.80	15.77	8.57	31.33	999.00	-1.75	999.00	-1.22	0.00
20	3	6 24	357.20	22.40	4.88	29.20	999.00	349.10	21.37	6.41	29.72	356.50	16.10	8.23	30.93	999.00	-1.75	999.00	-1.24	0.00
20	3	7 1	4.82	18.83	6.19	29.20	999.00	356.60	18.14	6.87	29.72	2.76	13.93	10.10	30.93	999.00	-1.78	999.00	-1.24	0.00
20	3	7 2	10.55	15.85	11.54	28.08	999.00	3.81	15.38	12.48	28.59	12.27	12.40	14.33	29.84	999.00	-1.74	999.00	-1.24	0.00
20	3	7 3	13.39	12.54	6.62	27.82	999.00	7.00	12.10	7.43	28.32	18.18	9.86	10.45	29.51	999.00	-1.67	999.00	-1.23	0.00
20	3	7 4	0.24	12.22	6.93	27.37	999.00	351.90	11.93	6.95	27.85	357.10	9.80	8.67	28.94	999.00	-1.52	999.00	-1.12	0.00
20	3	7 5	356.70	8.75	9.52	27.09	999.00	348.70	8.57	10.23	27.58	352.00	6.73	12.00	28.70	999.00	-1.58	999.00	-1.16	0.00
20	3	7 6	339.30	10.01	9.23	26.75	999.00	330.70	9.51	9.28	27.25	333.30	6.96	12.68	28.33	999.00	-1.61	999.00	-1.11	0.00
20	3	7 7	328.40	5.85	8.42	26.51	999.00	318.40	5.76	8.36	27.01	316.20	4.67	14.02	28.11	999.00	-1.56	999.00	-1.08	0.00
20	3	7 8	297.30	1.94	68.19	26.32	999.00	286.10	2.18	30.85	26.80	275.40	2.57	14.36	27.83	999.00	-1.60	999.00	-1.32	0.00
20	3	7 9	253.30	5.21	22.50	26.74	999.00	248.60	4.99	25.33	27.44	265.00	3.95	32.66	29.10	999.00	-2.79	999.00	-1.68	0.00
20	3	7 10	240.80	5.91	14.58	27.37	999.00	235.40	5.96	10.76	28.35	246.60	5.34	15.81	30.56	999.00	-3.46	999.00	-2.00	0.00
20	3	7 11	252.50	7.44	11.81	28.17	999.00	248.70	7.32	13.56	29.07	263.80	6.67	18.20	31.46	999.00	-3.16	999.00	-2.14	0.00
20	3	7 12	259.20	8.06	9.71	29.27	999.00	255.90	7.93	8.23	30.01	265.00	7.25	14.57	32.73	999.00	-3.32	999.00	-2.31	0.00
20	3	7 13	236.00	6.57	12.59	31.48	999.00	228.70	6.27	15.64	32.47	239.40	5.41	20.35	35.11	999.00	-3.59	999.00	-2.04	0.00
20	3	7 14	237.00	8.57	15.50	33.96	999.00	236.50	8.32	13.04	34.85	243.90	7.09	13.47	37.47	999.00	-3.30	999.00	-2.24	0.00
20	3	7 15	165.10	5.21	43.56	34.54	999.00	137.50	4.19	40.33	35.47	93.00	5.03	28.22	37.58	999.00	-2.46	999.00	-1.53	0.00
20	3	7 16	219.00	9.17	21.52	35.84	999.00	202.70	7.06	23.96	36.17	144.80	3.99	40.97	37.78	999.00	-1.76	999.00	-0.91	0.00
20	3	7 17	235.00	12.06	8.39	39.78	999.00	229.70	11.82	9.14	40.54	239.20	9.34	11.58	42.88	999.00	-3.05	999.00	-1.65	0.00
20	3	7 18	223.20	11.58	6.23	40.79	999.00	217.30	11.01	7.61	41.45	223.30	7.10	13.40	43.24	999.00	-2.10	999.00	-1.05	0.00
20			206.70	12.77	2.62		999.00		11.61	2.16		198.50	5.27	9.20		999.00		999.00	0.41	0.00
20	3	7 20	209.10	16.87	1.61	40.62	999.00	199.10	14.47	2.17	40.52		4.72	8.55	39.07	999.00	2.48	999.00	1.75	0.00
20	3	7 21	206.50	19.84	2.13	40.62	999.00	195.60	16.18	1.83	40.05	191.90	5.05	6.59	37.86	999.00	2.97	999.00	2.07	0.00
			211.90	19.24	1.15		999.00		15.36	1.78		200.20	4.98	9.18		999.00		999.00	1.44	0.00
			211.50	20.09	1.73	39.51	999.00	199.70	15.60	2.18	38.25	193.90	5.20	10.22	36.36	999.00	2.89	999.00	1.67	0.00
			214.20	23.17	2.86		999.00		18.65	3.25		196.00	7.60	8.97		999.00		999.00	2.02	0.00
			213.40	25.38	2.27		999.00		21.07	2.83		206.10	8.60	11.60		999.00		999.00	0.61	0.00
			999.00	999.00	999.00			999.00	999.00			999.00				999.00			999.00	0.00
			216.00	23.65	2.89		999.00		19.43		37.19		7.60	12.73		999.00		999.00	0.61	0.00
20	3	8 4	217.70	24.44	2.59	37.01	999.00	208.30	20.10	3.46	36.61	210.50	8.45	12.32	36.11	999.00	1.08	999.00	0.37	0.00

00 0 5 000 60	00 65 4 05	25 14 222	010 00 10	65 0.04	0.6 60 010 00	0 50	10 50	06.16.000.00	1 00 000 00	0.00
20 3 8 5 220.60	23.65 1.97			.65 3.24	36.67 217.20	9.50	10.78	36.16 999.00	1.02 999.00	0.29 0.00
20 3 8 6 220.80	24.59 1.84			.63 2.88	36.56 213.60	8.61	12.94	35.66 999.00	1.62 999.00	0.94 0.00
20 3 8 7 217.00	24.36 2.81			.36 3.00	35.80 206.80	8.67	11.94	34.88 999.00	1.50 999.00	0.88 0.00
20 3 8 8 216.20	21.86 2.80			.49 3.03	35.21 206.70	7.46	13.35	34.47 999.00	1.05 999.00	0.60 0.00
20 3 8 9 213.30	19.77 2.95			.26 3.23	35.00 208.00	8.46	12.34	34.92 999.00	-0.42 999.00	-0.12 0.00
20 3 8 10 212.50	19.98 4.30			.43 5.31	36.49 207.10	10.10	12.76	37.76 999.00	-1.75 999.00	-1.00 0.00
20 3 8 11 219.80	19.04 5.61			.39 6.08	40.11 221.70	12.01	12.54	42.14 999.00	-2.81 999.00	-1.90 0.00
20 3 8 12 220.50	20.74 5.93	43.45 999.00		.73 6.49	44.02 220.20	14.04	12.81	46.48 999.00	-3.08 999.00	-2.13 0.00
20 3 8 13 215.70	21.14 5.94	43.45 999.00	208.10 20	.26 7.72	44.02 214.80	13.79	15.08	46.48 999.00	-3.22 999.00	-2.25 0.00
20 3 8 14 225.40	21.06 5.59	50.15 999.00	220.10 20	.06 6.66	50.77 230.20	14.70	11.13	53.50 999.00	-3.07 999.00	-2.32 0.00
20 3 8 15 222.00	21.72 6.66	53.20 999.00	215.50 20	.86 7.19	53.81 225.30	14.80	12.01	56.35 999.00	-3.18 999.00	-2.06 0.00
20 3 8 16 213.00	24.86 5.37	55.66 999.00	206.10 23	.18 5.76	56.27 212.20	13.66	15.48	58.81 999.00	-2.89 999.00	-2.02 0.00
20 3 8 17 218.50	26.23 5.64	57.62 999.00	211.90 24	.75 6.11	58.19 221.10	15.30	13.11	60.35 999.00	-2.66 999.00	-1.71 0.00
20 3 8 18 214.00	24.73 4.34	58.66 999.00	207.80 22	.59 5.40	59.15 216.40	12.30	13.78	60.51 999.00	-1.45 999.00	-0.91 0.00
20 3 8 19 217.90	26.07 4.20	58.93 999.00	212.20 23	.89 5.39	59.32 220.70	13.79	12.32	60.16 999.00	-0.97 999.00	-0.34 0.00
20 3 8 20 217.80	21.99 2.94	58.31 999.00	210.50 19	.54 3.25	58.48 217.30	8.81	11.59	58.10 999.00	1.04 999.00	0.94 0.00
20 3 8 21 204.40	25.18 2.22	56.75 999.00	196.10 20	.61 2.88	56.48 198.30	8.91	9.55	54.91 999.00	2.31 999.00	1.69 0.00
20 3 8 22 999.00	27.11 3.32	54.94 999.00	194.90 22	.79 3.97	54.37 201.60	9.43	11.66	52.43 999.00	1.96 999.00	1.75 0.00
20 3 8 23 204.80	29.40 3.21	54.94 999.00	198.00 24	.52 3.86	54.37 206.70	10.17	13.21	52.43 999.00	1.14 999.00	0.62 0.00
20 3 8 24 209.50	29.29 2.68	54.04 999.00	201.70 25	.14 3.50	53.72 208.30	10.70	14.26	52.71 999.00	1.23 999.00	0.99 0.00
20 3 9 1 214.10	27.15 3.44	52.86 999.00		.24 3.99	52.59 208.50	9.36	12.62	51.75 999.00	1.21 999.00	0.73 0.00
20 3 9 2 214.10	28.66 3.15			.60 3.70	51.64 207.90	10.49	12.75	50.48 999.00	1.45 999.00	1.04 0.00
20 3 9 3 215.10	29.31 3.39			.88 4.28	50.98 212.80	11.37	13.96	50.00 999.00	1.04 999.00	0.87 0.00
20 3 9 4 215.70	27.28 2.76			.20 3.57	50.69 214.00	9.61	12.54	49.94 999.00	1.47 999.00	0.86 0.00
20 3 9 5 214.50	27.24 2.37			.64 2.87	50.39 209.70	9.29	13.27	49.25 999.00	1.75 999.00	1.03 0.00
20 3 9 6 214.30	27.26 3.25			.63 3.45	50.39 208.70	10.67	13.17	49.25 999.00	1.13 999.00	0.81 0.00
20 3 9 7 215.60	26.66 2.99			.20 3.15	50.13 209.00	9.91	13.57	49.25 999.00	1.56 999.00	0.95 0.00
20 3 9 8 219.20	27.63 2.78			.59 3.37	50.00 213.80	9.54	12.81	48.93 999.00	1.67 999.00	1.07 0.00
20 3 9 9 217.10	25.95 3.28			.12 4.16	49.57 211.00	9.67	13.11	48.75 999.00	0.65 999.00	0.68 0.00
20 3 9 10 218.60	23.00 4.21			.71 4.88	49.57 220.00	11.31	12.76	48.75 999.00	-1.63 999.00	-0.97 0.00
20 3 9 11 231.40	26.77 5.90			.63 7.14	53.97 227.80	16.83	11.77	55.42 999.00	-1.80 999.00	-1.18 0.00
20 3 9 12 235.20	27.75 6.83			.98 6.66	56.54 235.60	19.44	10.82	57.83 999.00	-1.86 999.00	-1.22 0.00
20 3 9 13 236.90	27.02 5.32			.22 5.12	58.05 234.10	19.18	9.08	59.49 999.00	-2.00 999.00	-1.17 0.00
20 3 9 14 245.50	32.92 3.97			.06 3.84	58.05 243.90	23.36	7.34	59.49 999.00	-1.19 999.00	-0.72 0.00
20 3 9 15 242.40	24.87 8.66			.32 8.50	60.48 242.70	17.82	11.68	61.45 999.00	-1.96 999.00	-1.40 0.00
20 3 9 16 239.10	22.24 5.09			.64 5.27	61.79 240.30	14.91	8.70	62.82 999.00	-1.38 999.00	-1.16 0.00
20 3 9 17 204.30	19.14 5.64			.17 6.30	62.57 200.00	10.76	13.31	63.73 999.00	-1.79 999.00	-0.95 0.00
20 3 9 18 210.80	24.68 5.92			.01 6.76	62.54 212.20	11.42	13.72	63.40 999.00	-1.21 999.00	-0.78 0.00
20 3 9 19 198.40	23.29 6.10			.21 6.66	61.23 193.80	10.94	13.72	61.59 999.00	-0.26 999.00	-0.14 0.00
					60.45 196.10		12.82			
	21.55 5.41			.43 6.06	59.84 205.90	10.18				
	19.08 3.68			.33 4.08		6.48	13.58	59.50 999.00	0.40 999.00	
	23.81 7.90			.27 8.38	59.61 199.40	11.30	14.35	59.10 999.00	-0.05 999.00	-0.14 0.00
20 3 9 23 202.80	27.71 6.97			.01 7.38	59.53 204.60	13.59	14.24	59.27 999.00	-0.21 999.00	0.14 0.00
20 3 9 24 196.90	28.28 4.66			.96 5.12	56.81 195.20			56.69 999.00	0.21 999.00	0.14 0.01
20 3 10 1 198.20	29.75 4.82			.20 5.24	53.73 198.40	15.40		52.45 999.00	0.66 999.00	2.68 0.00
20 3 10 2 198.40	31.23 5.26			.87 5.70	52.77 197.70	15.78	12.98	52.15 999.00	0.05 999.00	2.76 0.01
20 3 10 3 209.10	34.64 5.10			.39 5.77	54.42 210.10		14.19	53.79 999.00	0.90 999.00	1.92 0.00
20 3 10 4 210.10	32.05 5.57			.97 5.73	53.81 210.60		13.61	53.32 999.00	0.59 999.00	1.59 0.01
20 3 10 5 211.40	34.15 5.46			.11 5.86	54.33 210.80		14.25	53.92 999.00	0.34 999.00	1.11 0.00
20 3 10 6 213.40	32.21 4.63			.56 5.43	54.69 212.40		13.71	54.72 999.00	-0.40 999.00	1.00 0.00
20 3 10 7 216.30	29.50 4.39			.80 4.97		15.64	12.88	54.63 999.00	0.14 999.00	0.55 0.00
20 3 10 8 223.50	27.54 4.06	53.98 999.00	∠16.90 25	.03 4.86	54.36 223.30	14.42	11.76	54.30 999.00	-0.50 999.00	0.48 0.02

00 0 10 0 00 0	00.60		000 00 00	00 00 15	6 10	F0 00	0.00	11 05	0 50	F0 0F	000 00	0 65	000	0 00	0 00
20 3 10 9 276.60		1.65 52.13	999.00 269		6.19	52.92		11.85	9.70		999.00		999.00	-0.22	0.00
20 3 10 10 285.60		5.54 51.41		.80 19.52		52.17		12.84	9.77	52.21	999.00	-0.93	999.00	0.17	0.00
20 3 10 11 312.60		49.86		.30 23.77	5.41	50.32		14.22	10.74	50.78	999.00	-0.52		-0.24	0.01
20 3 10 12 332.80		3.27 46.86		.40 23.31	4.57	47.39		14.32	9.65	47.80	999.00	-0.45	999.00	-0.57	0.00
20 3 10 13 322.50		5.13 44.07		.30 21.65	6.51	44.61		14.47	10.73	45.58	999.00	-2.08	999.00	-1.58	0.00
20 3 10 14 336.00		5.57 42.29		.40 17.45	6.41		332.20	13.62	11.14	44.68	999.00	-2.72	999.00	-2.39	0.00
20 3 10 15 334.90		5.07 41.02		.80 14.95	6.39		336.10	11.91	10.81	43.39	999.00	-2.26	999.00	-2.41	0.00
20 3 10 16 354.50		5.02 40.01		.70 14.12	7.69	40.49		11.16	7.88	42.14	999.00	-2.12	999.00	-1.84	0.00
20 3 10 17 6.83		3.99 39.38		.46 12.73	6.49	39.69	3.98	9.46	7.83	41.12	999.00	-1.63		-1.24	0.00
20 3 10 18 5.20		4.81 39.30		.43 9.78	6.77		11.69	7.57	8.81	40.93	999.00	-1.90	999.00	-1.08	0.00
20 3 10 19 16.60		3.69 40.13		.01 4.78	7.98	40.70	39.51	4.57	8.18	42.52	999.00	-2.09	999.00	0.02	0.00
20 3 10 20 21.06	2.82 10	0.78 40.77	999.00 55	.59 1.57	20.52	40.95		1.49	15.80	41.66	999.00	-0.26	999.00	-0.37	0.00
20 3 10 21 168.10		5.30 40.22		.80 5.29	1.66	40.19		3.33	9.18	40.17	999.00	0.61	999.00	0.04	0.00
20 3 10 22 143.20	4.36 5	5.19 40.55	999.00 153	.40 5.86	1.40	40.39	174.20	2.90	7.61	38.92	999.00	2.15	999.00	1.53	0.00
20 3 10 23 166.90	10.41 2	2.55 40.75	999.00 165	.80 10.71	2.04	40.75	176.20	3.15	9.12	38.19	999.00	2.46	999.00	2.43	0.00
20 3 10 24 162.40		2.20 40.63	999.00 160		1.62	40.67		2.95	8.72	37.92	999.00	2.76	999.00	2.61	0.00
20 3 11 1 163.00		0.67 40.19	999.00 163		1.30	40.03		2.50	10.28	36.69	999.00	3.52	999.00	3.00	0.00
20 3 11 2 161.80		L.60 39.68	999.00 163		2.12	39.37		2.36	7.88	36.48	999.00	2.51	999.00	1.71	0.00
20 3 11 3 175.90		L.96 38.14	999.00 159		2.03	38.07		1.98	17.47	36.89	999.00	0.97	999.00	0.62	0.00
20 3 11 4 184.00		2.77 37.27	999.00 169		3.56	37.24		2.16	15.49	36.43	999.00	0.74	999.00	0.37	0.00
20 3 11 5 210.00		3.96 37.52		.30 5.98	4.51		211.50	1.53	22.30	35.99	999.00	1.92	999.00	0.53	0.00
20 3 11 6 192.90		2.86 37.39		.20 4.46	6.10	36.63		1.84	15.16	36.39	999.00	0.33	999.00	-0.32	0.00
20 3 11 7 142.60		7.20 37.26		.40 5.36	3.72	36.88		4.31	10.29	37.24	999.00	0.31	999.00	-0.19	0.00
20 3 11 8 59.81		L.37 37.87		.50 4.06	5.90	36.71	80.60	3.47	9.20	36.84	999.00	0.40	999.00	-0.61	0.00
20 3 11 9 82.10		1.38 37.38		.80 11.49	4.33	36.36	88.10	8.88	9.30	36.69	999.00	-0.29	999.00	-0.80	0.00
20 3 11 10 128.60		7.02 35.64		.80 10.40	6.91	35.77		6.92	16.52	36.85	999.00	-1.66	999.00	-1.24	0.00
20 3 11 11 174.80		7.16 36.20		.70 7.19	7.96	36.66		4.54	18.76	37.82	999.00	-1.78	999.00	-1.26	0.00
20 3 11 12 149.30		36.42	999.00 145			37.05		4.49	20.95	38.51	999.00	-2.40	999.00	-1.58	0.00
20 3 11 13 120.90		36.82		.00 7.46		37.60		5.90	16.24	39.31	999.00	-2.67		-1.72	0.00
20 3 11 14 128.50		1.86 37.62		.40 6.63	10.77	38.32		5.80	15.17	39.88	999.00	-2.01	999.00	-1.27	0.00
20 3 11 15 346.30		38.54		.16 3.13	52.85	39.04	52.90	4.48	17.02	40.14	999.00	-1.13	999.00	-0.18	0.00
20 3 11 16 341.40		39.65		.82 4.10	17.71	39.43	47.45	5.46	9.38	39.91	999.00	-0.73	999.00	-0.28	0.00
20 3 11 17 19.17		9.00 38.29		.94 6.25	9.12	38.34	43.91	6.32	7.87	38.97	999.00	-0.72	999.00	-0.24	0.00
20 3 11 18 79.40		37.97		.60 7.02	5.03	37.83	99.00	5.61	8.86	38.54	999.00	-0.78	999.00	-1.13	0.00
20 3 11 19 113.30		38.07		.70 8.35	8.19	37.99		5.46	12.40	39.04	999.00	-1.04	999.00	-1.00	0.00
20 3 11 20 105.30		5.28 38.54		.20 5.55	30.09	38.61		3.92	33.29	39.56	999.00	-1.08	999.00	-1.05	0.00
20 3 11 21 77.50		38.67		.50 5.93	6.40	38.67	83.50	5.47	10.09	39.53	999.00	-0.28	999.00	-0.43	0.00
20 3 11 22 125.30		38.06		.60 7.38	5.68	37.98		4.38	12.99	38.84	999.00	-0.99	999.00	-1.07	0.00
20 3 11 23 140.50		5.47 37.80	999.00 138		6.08	38.02		3.76	13.06	39.00	999.00	-1.19	999.00	-0.94	0.00
20 3 11 24 145.10		1.56 38.50	999.00 144		4.69	38.47		3.39	13.09	39.21	999.00	-0.22	999.00	-0.47	0.00
20 3 12 1 148.10		2.68 39.17	999.00 143		4.45	39.14		1.68	16.30	39.65	999.00	-0.55	999.00	-0.59	0.00
20 3 12 2 151.20		2.52 39.27	999.00 143		3.41	39.37		2.83	12.61	40.00	999.00	-0.82	999.00	-0.76	0.00
20 3 12 3 155.30			999.00 149		4.58	39.54		2.04	17.44		999.00		999.00	-0.84	0.00
20 3 12 4 148.10			999.00 124			39.79			13.91	40.49			999.00	-0.94	0.00
20 3 12 5 162.10			999.00 129			39.92		3.68	12.34		999.00		999.00	0.14	0.00
20 3 12 6 146.40			999.00 123			40.05		5.29	10.64		999.00		999.00	-0.22	0.00
20 3 12 7 146.90			999.00 134			40.16		3.51	12.38		999.00		999.00	-0.77	0.00
20 3 12 8 151.80			999.00 138			40.50		3.65	13.55		999.00		999.00	0.31	0.00
20 3 12 9 151.90			999.00 141			41.08		2.61	21.44		999.00		999.00	-0.38	0.00
20 3 12 10 159.50			999.00 149			41.20		4.12	14.83		999.00		999.00	-1.11	0.00
20 3 12 11 143.70			999.00 126			42.56		3.79	16.51		999.00		999.00	-1.34	0.00
20 3 12 12 134.50	7.15 2	2.23 43.06	999.00 123	.70 6.66	5.91	43.41	119.90	4.99	10.92	44.53	999.00	-1.11	999.00	-0.62	0.00

	3 12 13		7.57	9.66		999.00		6.66	11.17	44.55	84.70	6.02	11.16		999.00		999.00	1.19	0.00
20	3 12 14	166.20	5.58	24.52	46.34	999.00	128.80	5.04	20.39	45.98	79.50	6.01	12.54	46.88	999.00	-0.89	999.00	0.36	0.00
20	3 12 15	172.30	6.20	34.93	48.78	999.00	128.40	4.79	51.89	49.12	81.70	7.21	13.83	47.96	999.00	1.32	999.00	1.65	0.00
20	3 12 16	200.80	11.16	14.42	50.55	999.00	181.90	8.87	25.12	50.26	106.50	5.35	25.45	48.82	999.00	2.88	999.00	2.96	0.00
20	3 12 17	166.40	12.75	8.54	51.61	999.00	160.40	12.36	8.21	51.70	166.90	7.71	15.93	48.83	999.00	-1.33	999.00	-0.98	0.00
20	3 12 18		9.87	6.31	52.03	999.00		10.80	6.74	52.11	93.70	7.82	10.02	51.44		5.25	999.00	3.52	0.00
20			15.91	1.37	50.05	999.00	116.60	14.29	2.34		106.10	6.78	12.21	44.96	999.00	5.41	999.00	3.23	0.00
	3 12 13		18.68	1.92	48.48	999.00	100.80	17.31	4.04	45.09	93.90	8.73	10.65	43.39	999.00	5.22	999.00	1.57	0.00
20	3 12 21		16.04	1.49	49.72	999.00	98.20	15.39	3.67	45.06	86.90	7.29	10.47	42.38	999.00	6.84	999.00	2.46	0.05
20			18.90	5.84	50.21	999.00	131.90	16.34	6.77		112.80	5.70	11.86	42.44	999.00		999.00	7.78	0.00
	3 12 23		14.72	1.63	999.00	999.00	153.50	14.63	1.87		127.40	3.96	11.44	42.57	999.00	999.00	999.00	7.97	0.06
20	3 12 24		18.00	1.95	55.74	999.00	201.80	14.59	2.08		168.60	4.34	9.75	45.96	999.00	7.65	999.00	6.28	0.08
20	3 13 1		21.32	3.46	54.98	999.00	207.80	18.37	3.45		199.10	5.23	9.61	48.83	999.00	5.02	999.00	4.21	0.01
20		235.60	20.07	1.97	52.54	999.00	225.50	16.76	2.41		217.60	6.14	12.69	49.93	999.00	1.88	999.00	1.60	0.00
20	3 13 3	254.70	24.24	5.28	52.86	999.00	245.70	22.01	5.35	52.80	247.60	13.12	9.10	51.88	999.00	1.04	999.00	1.74	0.00
20	3 13 4	258.80	24.89	4.09	53.42	999.00	250.10	22.88	4.59		255.30	13.80	9.15	53.14	999.00	0.01	999.00	0.36	0.00
20	3 13 5	300.90	30.34	6.02	49.80	999.00	292.70	28.54	6.30	50.12	295.40	18.71	9.75	50.25	999.00	-0.49	999.00	0.24	0.00
20	3 13 6	308.00	38.07	6.62	44.03	999.00	299.70	35.68	7.03	44.46	302.90	23.23	11.21	44.59	999.00	-1.00	999.00	0.09	0.00
20	3 13 7	291.90	21.95	6.55	41.89	999.00	283.80	20.33	6.95	42.29	282.40	13.64	9.71	42.77	999.00	-0.61	999.00	-0.22	0.00
20	3 13 8	283.50	28.95	5.39	41.24	999.00	275.20	26.38	6.13	41.56	276.70	17.45	9.66	41.92	999.00	-0.83	999.00	-0.40	0.00
20	3 13 9	288.30	26.43	5.72	39.51	999.00	280.00	25.12	6.06	39.96	283.00	17.05	9.35	40.65	999.00	-1.37	999.00	-1.04	0.00
20	3 13 10	282.70	28.70	8.33	39.18	999.00	274.50	27.18	9.08	39.71	276.40	18.95	12.62	41.11	999.00	-2.07	999.00	-1.51	0.00
20			29.21	8.17	39.18	999.00	271.70	27.70	8.63	39.71		20.27	11.81	41.11	999.00	-2.50	999.00	-1.80	0.00
	3 13 12		26.62	6.17	39.76	999.00	270.70	25.56	7.15		272.90	18.83	11.87	42.46	999.00	-2.79	999.00	-2.17	0.00
20	3 13 13		29.42	6.20	41.15	999.00	260.00	28.32	6.99		262.70	20.24	11.06	44.06	999.00	-3.02	999.00	-2.10	0.00
	3 13 14		32.95	7.27	42.60	999.00	251.90	31.44	7.86		258.40	22.88	11.88	45.55	999.00	-3.03	999.00	-2.17	0.00
	3 13 14		27.15	10.99	43.23	999.00	259.60	25.77	11.13		261.30	20.23	13.68	46.20	999.00	-2.94	999.00	-2.20	0.00
	3 13 16		28.65	6.78	44.19	999.00	261.80	27.43	7.46	44.92	263.70	20.23	10.82	47.16	999.00	-2.92	999.00	-2.10	0.00
20	3 13 17		29.41	5.45	45.03	999.00	259.90	28.25	6.10		263.40	20.93	10.48	47.80	999.00	-2.70	999.00	-1.84	0.00
	3 13 18		25.09	7.80	45.03	999.00	263.90	23.78	8.48		267.30	17.40	11.69	47.80	999.00		999.00	-1.50	0.00
	3 13 19		24.53	6.57	45.76	999.00	269.90	22.58	7.33		276.00	16.34	10.57	47.73	999.00	-1.66	999.00	-0.92	0.00
20	3 13 20		19.84	4.01	45.02	999.00	278.10	17.74	4.87		275.10	9.86	9.68	45.74	999.00	-0.12	999.00	0.03	0.00
20			21.12	3.05	43.41	999.00	285.90	18.98	3.69		279.90	9.44	8.59	43.08	999.00	0.83	999.00	1.02	0.00
	3 13 22		22.00	3.38	42.14	999.00	287.40	20.41	3.98		285.10	11.38	8.68	41.31	999.00	0.39	999.00	0.73	0.00
	3 13 23		19.93	3.20	41.15	999.00	284.40	17.54	3.73		271.40	8.03	8.62	40.21	999.00	1.23	999.00	1.08	0.00
20	3 13 24	290.80	18.64	3.33	40.60	999.00	276.70	15.68	4.62	40.39	266.50	6.74	7.36	39.18	999.00	1.48	999.00	1.24	0.00
20	3 14 1	304.60	15.58	4.41	40.21	999.00	291.70	13.47	5.25	40.01	268.30	6.29	7.61	38.34	999.00	1.53	999.00	1.22	0.00
20	3 14 2	307.20	14.39	4.73	39.28	999.00	294.80	12.86	4.33	39.24	272.70	5.11	8.18	37.60	999.00	1.91	999.00	1.91	0.00
20	3 14 3	324.50	15.52	4.87	38.67	999.00	316.30	13.62	5.95	38.85	303.50	7.29	16.45	37.71	999.00	0.13	999.00	0.48	0.00
20	3 14 4	323.20	13.78	5.20	37.67	999.00	315.70	12.68	5.61	38.09	318.10	8.21	9.85	38.60	999.00	-1.05	999.00	-0.58	0.00
20	3 14 5	340.60	13.61	4.20	36.49	999.00	332.60	12.93	4.93	36.94	335.40	8.88	8.44	37.53	999.00	-1.02	999.00	-0.61	0.00
20	3 14 6	350.10	11.54	6.91	35.79	999.00	343.40	10.86	7.90	36.23	349.60	7.14	9.44	36.80	999.00	-1.09	999.00	-0.66	0.00
	3 14 7		11.56	4.92		999.00		11.30	5.57		357.10	8.14	8.64		999.00		999.00	-1.06	0.00
	3 14 8		10.93	5.28		999.00	0.63	10.53	6.06	35.33	3.19	7.66	8.98		999.00		999.00	-1.19	0.00
	3 14 9	8.96	11.65	4.74		999.00	1.84	11.51	5.83	35.08	6.29	9.71	7.71		999.00		999.00	-1.32	0.00
	3 14 10	33.84	8.59	7.53		999.00	27.07	8.17	7.13	34.73	30.01	7.58	10.23		999.00		999.00	-1.10	0.00
	3 14 11	48.42	8.20	9.05	34.43		41.06	7.06	8.61	35.08	47.50	7.74	10.52		999.00		999.00	-1.16	0.00
	3 14 12	42.99	6.93	9.91	34.09	999.00	35.82	6.50	7.45	34.70	42.06	6.58	9.67	36.07			999.00	-1.09	0.00
	3 14 13	23.26	7.41	10.45	33.91		16.61	7.47	9.92	34.48	16.48	7.00	13.01		999.00		999.00	-1.21	0.00
	3 14 14	56.08	6.69	9.35			49.67	6.02	999.00	34.18	54.77	6.45	14.46		999.00		999.00	-1.34	0.00
	3 14 15	51.11	8.29	8.27		999.00	44.95	7.17	8.93	34.07	47.88	7.91	12.61		999.00		999.00	-1.39	0.00
20	3 14 16	73.00	9.44	7.36	33.41	999.00	65.16	9.29	7.43	34.06	68.47	8.62	10.99	35.58	999.00	-2.15	999.00	-1.47	0.00

	3 14 17	69.58	8.76	8.16		999.00	61.35	8.61	8.38	34.06	72.70	7.30	15.32		999.00		999.00	-1.30	0.00
20	3 14 18	53.98	9.17	8.73	33.32	999.00	48.48	8.17	8.72	33.89	53.03	8.44	13.30	35.23	999.00	-1.93	999.00	-1.36	0.00
20	3 14 19	73.20	10.48	6.35	33.31	999.00	65.72	10.34	6.20	33.86	77.00	7.84	10.86	35.15	999.00	-1.73	999.00	-1.25	0.00
20	3 14 20	51.57	10.39	12.39	33.27	999.00	44.70	8.86	11.89	33.77	47.46	8.73	17.42	34.96	999.00	-1.72	999.00	-1.33	0.00
20	3 14 21	44.10	16.73	6.53	33.27	999.00	37.70	13.68	7.55	33.77	43.04	13.08	10.31	34.96	999.00	-1.85	999.00	-1.30	0.00
2.0	3 14 22	62.76	13.73	7.10	32.01	999.00	54.72	12.85	7.44	32.55	61.02	11.18	11.53	33.80	999.00	-1.70	999.00	-1.16	0.00
	3 14 23	58.39	14.35	7.49	32.13	999.00	51.62	12.48	7.60	32.68	54.99	11.74	11.17	33.86	999.00	-1.81	999.00	-1.27	0.00
	3 14 24	999.00	999.00	999.00	35.08	999.00	999.00	999.00	999.00	34.55	999.00	999.00	999.00	33.32	999.00	999.00	999.00	-1.15	0.00
20		58.97	17.24	6.03	31.41	999.00	52.03	14.75	6.74	31.95	56.40	12.70	10.39	33.19	999.00	-1.78	999.00	-1.26	0.00
20		40.18	18.48	6.40	31.45	999.00	33.69	15.39	7.43	31.98	39.87	13.05	10.62	33.22	999.00		999.00	-1.30	0.00
	3 15 3	29.18	17.64	7.04	31.48	999.00	23.25	15.86	9.21	32.02	25.18	13.50	9.96	33.28	999.00	-1.81	999.00	-1.33	0.00
20	3 15 4	29.53	20.80	7.46	31.28	999.00	23.92	18.98	7.22	31.80	27.55	15.21	10.65	33.07	999.00	-1.81	999.00	-1.32	0.00
20	3 15 5	28.09	15.48	8.70	31.01	999.00	21.63	14.08	10.21	31.53	24.72	12.10	10.23	32.82	999.00	-1.81	999.00	-1.33	0.00
20	3 15 6	29.86	16.38	5.86	30.91	999.00	23.55	15.46	6.32	31.41	28.14	11.93	9.49	32.66	999.00	-1.77	999.00	-1.28	0.00
20	3 15 7	41.38	19.83	5.71	31.31	999.00	36.07	16.59	7.64	31.83	43.83	14.60	10.48	33.07	999.00	-1.78	999.00	-1.33	0.00
20	3 15 8	999.00	999.00	999.00	31.36	999.00	999.00	999.00	999.00	31.89	999.00	999.00	999.00	33.15	999.00	999.00	999.00	-1.19	0.00
20	3 15 9	53.47	15.22	7.34	31.05	999.00	45.87	12.70	7.92	31.61	48.05	13.01	9.07	32.97	999.00	-2.17	999.00	-1.19	0.00
20	3 15 10	59.63	12.20	7.03	31.41	999.00	52.41	11.15	7.40	32.13	56.82	11.00	11.86	34.00	999.00	-2.90	999.00	-1.25	0.00
20	3 15 11	62.60	10.36	9.84	31.76	999.00	55.87	9.39	8.82	32.71	62.38	10.10	14.33	34.82	999.00	-3.12	999.00	-1.24	0.00
	3 15 12	59.86	10.26	9.77	32.48	999.00	52.07	9.63	9.22	33.29	49.78	10.97	11.68	35.65	999.00	-3.30	999.00	-1.75	0.00
	3 15 13	54.59	12.53	9.36	32.66	999.00	46.24	11.32	8.64	33.44	45.70	13.21	10.00	35.90	999.00	-3.02	999.00	-1.22	0.00
	3 15 14	60.43	12.76	7.69	33.15	999.00	53.94	11.72	7.67	34.03	56.84	12.61	12.62	36.46	999.00	-3.71	999.00	-1.80	0.00
	3 15 15	79.20	14.01	6.99	33.66	999.00	70.50	13.32	8.35	34.54	74.00	12.09	12.15	36.87	999.00	-3.12	999.00	-2.00	0.00
	3 15 16	99.90	15.32	6.73	33.89	999.00	95.60	15.12	7.50	34.67	106.90	9.96	17.23	37.04	999.00	-3.28	999.00	-2.50	0.00
	3 15 17		14.84						6.83							-2.83	999.00		0.00
		102.00		5.72	33.74	999.00	94.90	14.40		34.60	102.20	10.56	14.81	36.93	999.00			-2.19	
	3 15 18	101.40	11.21	6.74	34.57	999.00	91.10	10.81	8.59	35.39	99.80	7.61	16.49	37.50	999.00	-2.83	999.00	-1.72	0.00
	3 15 19	98.30	9.89	7.15	34.52	999.00	89.80	9.77	8.32	35.35	98.40	6.95	16.18	37.13	999.00	-2.37	999.00	-1.77	0.00
	3 15 20	92.80	9.58	4.93	34.16	999.00	82.60	9.05	5.24	34.75	78.70	7.19	10.16	35.98	999.00	-1.48	999.00	-0.93	0.00
	3 15 21	86.10	9.22	3.51	34.14	999.00	77.30	9.13	4.42	34.59	78.80	6.74	8.06	35.48	999.00	-1.24	999.00	-0.82	0.00
	3 15 22	73.40	11.56	5.86	33.94	999.00	63.57	10.95	5.74	34.37	71.10	8.69	9.89	35.15	999.00	-1.28	999.00	-0.93	0.00
	3 15 23	76.00	14.78	3.38	33.21	999.00	66.26	13.80	4.66	33.65	73.70	9.67	9.84	34.50	999.00	-1.29	999.00	-0.92	0.00
20	3 15 24	71.30	15.97	4.65	32.93	999.00	62.29	16.01	4.44	33.37	69.37	12.03	9.30	34.22	999.00	-1.36	999.00	-0.97	0.00
20	3 16 1	75.80	17.54	2.82	32.73	999.00	65.29	16.90	4.11	33.17	73.00	11.21	9.92	34.04	999.00	-1.27	999.00	-0.88	0.00
20	3 16 2	87.60	18.38	3.43	32.87	999.00	79.20	17.85	4.09	33.32	83.90	11.21	10.91	34.15	999.00	-1.33	999.00	-0.91	0.00
20	3 16 3	93.30	20.14	2.67	33.10	999.00	86.30	18.92	3.26	33.59	92.90	12.01	11.20	34.52	999.00	-1.49	999.00	-0.98	0.00
20	3 16 4	87.70	18.80	3.51	32.98	999.00	80.10	18.29	4.27	33.47	85.70	11.20	11.07	34.40	999.00	-1.38	999.00	-0.95	0.00
20	3 16 5	98.40	16.60	3.96	32.98	999.00	90.50	15.55	4.59	33.47	96.20	8.49	13.07	34.40	999.00	-1.25	999.00	-0.74	0.00
20	3 16 6	106.60	14.86	4.20	32.84	999.00	99.30	14.27	5.18	33.27	103.40	7.12	13.38	33.95	999.00	-1.09	999.00	-0.67	0.00
20	3 16 7		15.76	2.10	33.03	999.00	95.30	15.71	2.68		103.30	8.57	12.25	34.10	999.00	-1.06	999.00	-0.65	0.00
20	3 16 8	96.00	12.12	4.77	33.10	999.00	88.00	11.17	5.20	33.52	94.10	6.60	11.92	34.22	999.00	-1.18	999.00	-0.76	0.00
20		112.50	7.44	5.30	33.50	999.00	104.70	6.84	7.70	34.04	110.60	4.22	16.53	35.07	999.00	-2.07	999.00	-1.40	0.00
20	3 16 10		5.57	9.76	34.29	999.00	121.30	5.56	11.12	35.10	121.40	4.58	15.86	36.73	999.00	-2.41	999.00	-1.47	0.00
									11.79										
	3 16 11		5.29	10.80		999.00	101.00	5.64			114.60	4.64	19.93		999.00		999.00	-1.82	0.00
	3 16 12		7.93	7.64		999.00	94.50	7.78	9.81		101.00	6.45	18.63		999.00		999.00	-1.79	0.00
	3 16 13	98.80	4.87	12.45		999.00	85.20	5.37	12.70	36.38	83.30	5.38	15.89		999.00		999.00	-1.61	0.00
	3 16 14		3.95	26.72		999.00	88.50	5.07	15.49	38.16	90.00	6.31	12.75		999.00		999.00	-1.39	0.00
	3 16 15	82.20	8.31	7.23		999.00	71.20	8.46	8.91	38.51	67.90	8.29	10.66		999.00		999.00	-1.66	0.00
	3 16 16	73.90	6.64	14.12	37.00		58.64	6.77	10.78	37.40	62.65	6.63	15.41		999.00		999.00	-1.16	0.00
	3 16 17	69.66	5.05	5.48	39.17		60.87	5.72	7.11	38.53	65.35	6.59	7.71	39.35	999.00		999.00	-0.39	0.00
20	3 16 18	45.06	4.60	30.42	39.63	999.00	50.55	4.47	14.60	38.38	50.23	4.16	47.20	38.50	999.00		999.00	-0.68	0.00
20	3 16 19	115.80	5.08	11.36	38.18	999.00	117.50	5.15	8.40	37.83	121.20	3.16	13.93	38.65	999.00	-1.00	999.00	-1.01	0.00
20	3 16 20	108.80	4.58	8.79	38.15	999.00	109.90	5.82	6.14	37.72	115.20	4.14	11.25	38.51	999.00	-0.30	999.00	-0.76	0.00

20	3 16 21	230.90	1.11	34.82	38.15	999.00	127.00	2.71	8.70	37.72	117.70	3.24	11.71	38.51	999.00	0.66	999.00	0.12	0.00
20	3 16 22	166.40	5.68	3.27	37.48	999.00	150.40	5.79	4.28	37.58	145.30	3.92	11.21	38.41	999.00	-1.17	999.00	-1.12	0.00
20	3 16 23	170.30	7.18	2.86	37.21	999.00	159.50	6.21	5.09	37.02	162.10	3.66	13.66	38.04	999.00	-0.83	999.00	-1.08	0.00
20	3 16 24	183.80	8.24	3.15	37.08	999.00	175.00	7.56	2.77	37.12	190.80	3.86	10.68	38.05	999.00	-0.45	999.00	-0.84	0.00
20	3 17 1	214.80	6.81	5.66	37.08	999.00	189.50	5.61	3.72	37.12	195.30	2.98	13.08	38.05	999.00	0.17	999.00	-0.39	0.00
20	3 17 2		9.31	2.89	38.66	999.00	229.00	8.00	4.72		202.40	3.43	13.44	38.31	999.00	0.34	999.00	0.29	0.00
	3 17 3		11.48	2.24	38.62	999.00	234.00	10.17	3.23		220.90	4.12	14.33	38.82	999.00	-0.64	999.00	-0.54	0.00
20	3 17 4		13.04	3.01	38.50	999.00	230.30	11.28	3.40		228.40	5.61	10.97	39.38	999.00	-0.84	999.00	-0.69	0.00
20	3 17 5		13.91	4.25	38.18	999.00	241.50	13.01	4.46		246.90	9.15	8.69	39.48	999.00		999.00	-1.11	0.00
20	3 17 6		13.64	4.91	37.67	999.00	253.50	12.75	5.72		255.50	9.08	9.43	39.19	999.00		999.00	-1.01	0.00
20	3 17 7		13.85	5.24	37.50	999.00	250.60	12.25	6.37		253.40	8.28	9.86	38.81	999.00	-1.17	999.00	-0.99	0.00
20	3 17 8		14.81	4.39	37.79	999.00	249.10	13.28	5.48		253.00	9.09	9.05	38.90	999.00	-1.04	999.00	-1.00	0.00
20			14.33	7.64	38.08	999.00	273.60	13.25	7.93		272.00	8.56	11.76	39.28	999.00	-1.52	999.00	-0.98	0.00
20	3 17 10	291.40	16.80	7.26	38.34	999.00	282.80	15.37	8.36	38.71	282.10	10.94	10.23	39.88	999.00	-1.54	999.00	-1.47	0.00
20	3 17 11	296.70	14.50	9.65	39.02	999.00	290.20	13.95	9.87	39.31	290.20	10.31	10.09	40.98	999.00	-1.93	999.00	-1.43	0.00
20	3 17 12	286.70	13.98	6.91	39.28	999.00	280.20	13.48	7.67	39.76	285.20	10.60	11.14	41.23	999.00	-1.95	999.00	-1.41	0.00
20	3 17 13	286.60	15.56	5.70	39.35	999.00	280.20	15.01	5.59	39.93	281.90	11.01	11.00	41.38	999.00	-2.01	999.00	-1.48	0.00
20	3 17 14	271.80	15.03	7.38	39.54	999.00	264.20	14.30	8.70	40.14	267.50	10.93	12.51	41.66	999.00	-2.18	999.00	-1.60	0.00
20	3 17 15	279.30	12.81	8.27	40.26	999.00	273.10	12.18	9.62	40.93	274.50	9.72	13.79	42.71	999.00	-2.84	999.00	-2.01	0.00
20	3 17 16	271.40	12.38	16.44	42.15	999.00	264.80	11.97	18.91	42.88	266.90	10.42	19.60	45.07	999.00	-3.18	999.00	-2.39	0.00
20	3 17 17		11.73	10.71	43.70	999.00	251.60	11.47	12.92	44.43		8.83	17.81	46.83	999.00	-3.11	999.00	-2.00	0.00
20	3 17 18		13.26	10.62	45.11	999.00	250.80	13.06	11.24	45.90	252.60	9.76	12.79	48.15	999.00	-2.86	999.00	-1.57	0.00
20	3 17 19		13.82	8.67	45.69	999.00	233.00	13.40	8.26	46.32	237.50	10.09	10.50	47.87	999.00	-1.81	999.00	-0.86	0.00
	3 17 20		15.48	2.21	45.35	999.00	226.80	14.03	2.65	45.74	219.60	6.41	11.42	46.12	999.00	0.06	999.00	0.39	0.00
20	3 17 21		16.29	2.27	44.80	999.00	216.90	14.30	2.69	44.77	210.70	5.17	11.53	43.63	999.00	1.40	999.00	1.28	0.00
20		999.00	999.00	999.00	44.66	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	42.86	999.00	999.00	999.00	1.47	0.00
	3 17 22			1.23		999.00	218.90		2.16		215.50	4.81	10.86		999.00		999.00		0.00
			16.41		42.47			13.47						40.08		2.56		1.54	
20	3 17 24		17.17	1.36	40.73	999.00	228.00	14.02	2.16	39.90	227.70	5.62	9.32	38.47	999.00	1.92	999.00	1.10	0.00
20	3 18 1		15.61	3.21	39.71	999.00	233.00	13.81	1.84		212.90	4.82	8.60	37.29	999.00	3.08	999.00	2.33	0.00
20	3 18 2		12.99	1.68	39.77	999.00	235.30	11.10	1.27		214.50	3.57	10.62	36.36			999.00	1.92	0.00
20	3 18 3		13.12	1.35	39.20	999.00	238.90	11.55	1.38		214.90	3.22	7.23	35.42	999.00	4.31	999.00	2.62	0.00
20		257.40	7.37	4.79	39.05	999.00	237.60	8.95	3.24		194.30	3.77	7.10	34.74	999.00	4.34	999.00	3.31	0.00
20	3 18 5		3.51	18.42	38.11	999.00	220.20	5.73	14.75		180.70	3.24	11.06	34.37	999.00	3.70	999.00	2.97	0.00
20		205.80	11.40	3.92	38.56	999.00	200.70	12.26	5.42		187.20	4.05	16.33	34.56	999.00	4.55	999.00	4.11	0.00
20	3 18 7		10.20	4.28	39.83	999.00	179.60	8.72	4.26		135.80	1.78	27.27	35.22	999.00	4.61	999.00	2.21	0.00
20	3 18 8	174.30	11.48	2.96	38.97	999.00	157.80	8.49	4.67	37.65	152.00	2.02	14.32	35.93	999.00	2.46	999.00	1.41	0.00
20	3 18 9	167.80	12.70	1.76	38.27	999.00	150.90	9.58	4.61	37.27	131.00	2.88	16.06	36.43	999.00	0.78	999.00	-0.27	0.00
20	3 18 10	151.00	11.34	5.50	37.69	999.00	141.90	9.55	6.07	37.54	143.70	5.56	13.15	38.50	999.00	-1.57	999.00	-1.23	0.00
20	3 18 11	146.50	9.92	8.65	38.37	999.00	139.60	9.80	8.69	38.88	139.20	7.18	12.30	40.39	999.00	-2.03	999.00	-1.48	0.00
20	3 18 12	150.30	7.51	13.91	39.42	999.00	133.40	7.17	15.45	39.88	133.60	4.69	19.14	41.59	999.00	-2.06	999.00	-1.42	0.00
20	3 18 13	151.20	10.38	10.22	40.72	999.00	146.40	10.31	11.64	41.32	156.90	7.12	22.19	43.03	999.00	-2.54	999.00	-1.68	0.00
20	3 18 14	93.70	12.24	3.05	40.60	999.00	82.40	12.60	3.46	41.07	86.50	8.33	11.71	42.88	999.00	-2.07	999.00	-1.62	0.00
	3 18 15	90.60	17.65	2.10		999.00	80.80	17.36	3.15	39.09	85.30	9.47	10.99		999.00		999.00	-1.09	0.06
	3 18 16		21.08	1.87		999.00	80.80	17.92	4.11	37.91		9.20	11.56		999.00		999.00	-0.45	0.11
	3 18 17	86.60	17.84	2.47		999.00	75.80	15.56	4.43	36.98	81.30	9.74	9.97		999.00		999.00	-0.90	0.12
	3 18 18	93.60	17.05	4.39		999.00	86.10	15.13	5.04	36.70	91.00	8.56	13.60		999.00		999.00	-1.10	0.06
	3 18 19	94.10	23.90	3.26	36.39			21.27	4.78	36.81	92.90	12.08	12.03		999.00		999.00	-0.96	0.06
	3 18 19	72.70					85.80						13.86		999.00		999.00		
			13.60	7.10			61.85	11.58	7.34	36.98	62.81	9.07						-0.83	0.02
	3 18 21	74.20	15.92	4.49		999.00	58.53	12.59	6.60	36.99	65.96	8.43	13.36		999.00		999.00	-0.77	0.04
	3 18 22	85.20	14.91	11.00		999.00	74.70	11.75	13.12	37.52	73.20	5.91	19.99		999.00		999.00	-0.61	0.00
	3 18 23	84.40	17.84	3.25		999.00	74.10	14.32	5.24	37.85	79.30	8.15	11.25		999.00		999.00	-0.61	0.00
20	3 18 24	51.07	11.02	8.31	37.87	999.00	36.27	9.67	8.52	37.81	30.90	8.13	11.03	38.45	999.00	-0.74	999.00	-0.68	0.00

	3 19 1	16.93	16.98	11.12		999.00	8.87	15.72	12.10	37.34	14.59	11.51	14.46		999.00		999.00	-0.82	0.00
20	3 19 2	30.21	14.36	6.99	37.51	999.00	21.72	12.14	8.72	37.90	24.28	9.82	9.60	38.69	999.00	-1.17	999.00	-0.83	0.00
20	3 19 3	72.20	6.44	7.85	999.00	999.00	66.39	4.39	11.49	999.00	78.40	2.16	23.63	38.72	999.00	-0.95	999.00	-0.65	0.00
20	3 19 4	41.43	11.29	6.97	37.82	999.00	26.57	9.63	7.36	38.13	24.09	7.23	10.32	38.78	999.00	-1.00	999.00	-0.70	0.00
20	3 19 5	11.64	6.55	10.59	37.82	999.00	354.90	5.83	12.07	38.13	328.60	4.01	16.28	38.78	999.00	-0.83	999.00	-0.60	0.00
20	3 19 6	37.94	11.49	4.57	37.59	999.00	29.29	9.53	5.45	37.98	30.20	6.82	9.09	38.76	999.00	-1.14	999.00	-0.81	0.00
	3 19 7	88.20	6.50	2.80	37.74	999.00	64.63	6.86	3.42	37.95	71.60	4.26	11.33	38.56	999.00	-0.61	999.00	-0.63	0.00
20	3 19 8	84.10	7.01	4.31	37.76	999.00	69.32	6.51	5.05	38.04	78.20	4.29	13.84	38.68	999.00	-0.99	999.00	-0.74	0.00
20	3 19 9	97.00	7.96	3.67	37.70	999.00	87.00	7.07	5.72	37.88	97.90	4.23	13.50	38.67	999.00	-1.18	999.00	-0.94	0.00
20			7.99	5.18	37.75	999.00	127.40	7.73	5.93	38.08	129.90	4.69	14.89	39.31			999.00	-1.33	0.00
	3 19 11		13.59	4.61	38.21	999.00	127.30	13.16	6.22		131.40	7.47	15.26	40.31	999.00	-2.51	999.00	-1.85	0.00
20	3 19 12		11.43	6.50	38.21	999.00	119.30	10.10	8.16		122.90	6.98	15.89	40.31	999.00	-2.57	999.00	-2.22	0.00
20			9.34	8.20	40.14	999.00	121.80	8.18	9.61		118.50	6.16	14.39	41.97	999.00	-1.98	999.00	-1.85	0.00
20	3 19 14	151.00	8.08	7.88	42.57	999.00	134.70	7.19	10.83	42.46	87.40	5.05	9.83	43.58	999.00	-1.07	999.00	-0.28	0.00
20	3 19 15	119.80	10.68	6.24	43.99	999.00	91.80	10.53	6.51	43.44	77.90	5.82	14.82	43.04	999.00	1.75	999.00	-0.09	0.00
20	3 19 16	128.90	11.62	3.83	44.15	999.00	110.60	12.30	4.86	42.69	111.70	6.46	12.28	41.81	999.00	2.63	999.00	1.51	0.00
20	3 19 17	130.10	11.00	2.69	44.55	999.00	105.30	9.37	6.83	42.04	95.60	5.26	12.72	41.94	999.00	1.54	999.00	-0.69	0.02
20	3 19 18		12.76	3.99	44.35	999.00	100.50	15.57	3.28	42.73	93.20	8.75	9.79	41.00	999.00	4.68	999.00	999.00	0.03
20	3 19 19		20.81	3.97	44.11	999.00	106.70	17.07	5.17		107.30	7.57	13.39	40.10	999.00	3.44	999.00	0.70	0.12
20	3 19 20		22.27	3.51	47.52	999.00	117.50	17.71	4.74	43.03	108.30	6.98	12.79	41.53	999.00	5.97	999.00	3.36	0.00
20	3 19 21		14.71	6.78	50.73	999.00	172.80	10.70	8.04	49.21	84.20	3.62	72.30	44.25	999.00	5.47	999.00	4.81	0.08
											205.10								
20	3 19 22		24.54	5.23	55.87	999.00	202.60	20.95	6.58	55.49		7.95	15.40	52.27	999.00	1.89	999.00	1.16	0.00
20	3 19 23		27.26	4.26	58.98	999.00	208.70	24.29	4.68	59.57	216.00	11.60	13.52	58.98	999.00	-0.02	999.00	0.03	0.00
	3 19 24		25.00	4.01	60.69	999.00	210.00	22.19	4.37		213.60	10.20	13.24	60.41	999.00	0.60	999.00	1.01	0.00
20	3 20 1		29.04	3.60	62.57	999.00	213.30	26.29	4.46	63.28	219.90	14.17	11.41	61.60	999.00	0.92	999.00	1.49	0.00
20	3 20 2		27.79	4.63	63.78	999.00	210.70	24.69	5.45	64.24	218.10	13.59	12.68	63.07	999.00	0.57	999.00	1.42	0.00
20		221.20	28.20	4.09	64.45	999.00	214.30	26.00	4.57	64.78	220.70	14.56	11.99	63.60	999.00	1.05	999.00	1.30	0.00
20	3 20 4	223.90	33.00	4.68	64.82	999.00	216.70	29.86	5.23	65.12	222.80	16.57	13.00	64.33	999.00	0.46	999.00	0.47	0.00
20	3 20 5	210.20	34.88	4.83	64.11	999.00	202.40	31.14	5.40	64.47	206.70	15.80	14.71	64.26	999.00	-0.39	999.00	-0.20	0.00
20	3 20 6	214.90	27.78	3.93	62.69	999.00	207.20	24.83	4.49	63.00	212.60	12.68	13.49	62.62	999.00	0.54	999.00	1.15	0.00
20	3 20 7	229.00	27.08	4.12	61.39	999.00	222.50	24.32	4.99	62.34	229.00	14.66	10.60	61.43	999.00	-0.09	999.00	1.45	0.00
20	3 20 8	225.70	28.06	4.26	62.97	999.00	218.80	25.57	4.66	63.80	223.50	14.57	11.70	62.72	999.00	0.53	999.00	1.58	0.00
20	3 20 9	230.40	34.67	3.88	63.71	999.00	222.90	31.58	4.83	64.35		20.09	9.80	63.46	999.00	0.62	999.00	0.33	0.00
	3 20 10		31.68	5.61	64.19	999.00	235.70	30.54	5.13		241.30	22.17	8.54	64.43	999.00	-0.90	999.00	-0.07	0.00
	3 20 11		31.27	5.28	64.55	999.00	253.10	29.31	5.61	65.02	257.70	19.84	10.13	65.74	999.00	-1.56	999.00	-1.18	0.00
	3 20 12		33.70	6.18	59.28	999.00	290.60	32.36	6.76		293.10	22.85	9.93	61.36	999.00	-2.30	999.00	-1.62	0.00
	3 20 12		31.40	5.13	53.20	999.00	297.00	30.41	5.76		299.00	21.69	10.25	55.69	999.00	-2.86	999.00	-2.27	0.00
	3 20 13	315.60	26.53	4.38	49.02	999.00	309.00	25.11	4.92	49.78	318.00	18.34	10.78	51.71	999.00	-2.56	999.00	-2.07	0.00
20			27.54	4.06	46.40	999.00	311.80	26.03	4.89	47.13		18.91	9.31	48.92	999.00	-2.45	999.00	-2.01	0.00
20		999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	0.00
	3 20 17	328.00	24.25	5.90	43.63	999.00	320.30	22.35	6.49	44.41	325.40	16.54	9.47	46.22	999.00	-2.61	999.00	-1.93	0.00
20	3 20 18	324.70	23.69	5.72	42.11	999.00	317.20	22.05	6.49	42.77	323.00	16.36	8.71	44.29	999.00	-2.05	999.00	-1.49	0.00
	3 20 19		21.41	5.27		999.00		20.11	5.89	41.42	320.90	14.90	9.02		999.00		999.00	-1.26	0.00
20	3 20 20	334.60	24.81	5.52	39.51	999.00	326.90	23.72	6.00	40.07	332.20	17.00	10.68	41.30	999.00	-1.76	999.00	-1.22	0.00
20	3 20 21	354.60	24.37	4.23	35.88	999.00	347.50	23.71	5.04		355.50	17.84	7.80	37.65	999.00		999.00	-1.33	0.00
20	3 20 22	356.10	23.32	5.54	34.25	999.00	349.30	22.85	6.10	34.81	357.50	17.52	7.47	36.17	999.00	-1.99	999.00	-1.47	0.00
	3 20 23	0.60	25.70	6.34	32.38	999.00	353.50	25.01	6.88	32.94	1.09	20.11	8.01		999.00		999.00	-1.48	0.00
	3 20 24		17.02	10.52		999.00	350.10	16.39	10.25	31.24	359.90	12.62	13.00		999.00		999.00	-1.40	0.00
	3 21 1	20.58	20.71	12.45		999.00	12.44	19.67	14.04	31.23	17.61	15.98	16.92		999.00		999.00	-1.44	0.00
	3 21 2	31.67	17.58	11.53	30.08		26.10	15.60	12.53	30.65	28.51	13.43	14.57		999.00		999.00	-1.40	0.00
	3 21 2	40.38	19.89	7.59		999.00	34.38	17.32	8.36	29.83	41.24	15.58	11.30		999.00		999.00	-1.50	0.00
			20.57	8.45								15.67					999.00		
20	3 21 4	29.40	20.5/	0.45	21.98	999.00	24.70	19.46	7.76	28.54	31.02	13.6/	11.25	∠9.98	999.00	-1.90	999.00	-1.44	0.00

	3 21 5	25.61	15.49	8.36		999.00	19.94	14.44	9.43	28.26	23.06	12.27	12.38		999.00		999.00	-1.45	0.00
	3 21 6	29.15	17.58	7.51	28.03	999.00	23.18	16.60	8.39	28.55	30.11	14.39	11.15	29.91	999.00	-1.94	999.00	-1.39	0.00
	3 21 7	24.64	18.21	7.87	27.95	999.00	18.22	16.64	10.01	28.48	22.29	14.78	11.12	29.84	999.00		999.00	-1.44	0.00
	3 21 8	28.34	18.67	7.25	27.68	999.00	22.45	17.73	7.88	28.20	30.12	14.88	11.29	29.54	999.00	-1.85	999.00	-1.40	0.00
	3 21 9	26.19	20.07	7.46	27.09	999.00	19.84	18.81	8.28	27.63	24.97	15.42	9.48	29.02	999.00	-1.93	999.00	-1.44	0.00
20	3 21 10	999.00	999.00	999.00	26.47	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	28.41	999.00	999.00	999.00	-1.42	0.00
20	3 21 11	28.36	18.18	8.30	25.99	999.00	22.41	16.81	9.64	26.54	26.42	13.88	11.30	28.16	999.00	-2.20	999.00	-1.51	0.00
20	3 21 12	34.12	16.04	6.81	26.10	999.00	28.64	13.92	7.43	26.64	34.51	12.52	11.62	28.25	999.00	-2.28	999.00	-1.57	0.00
20	3 21 13	37.07	14.68	6.74	26.48	999.00	30.91	12.64	8.32	27.07	35.90	11.68	12.46	28.64	999.00	-2.13	999.00	-1.41	0.00
20	3 21 14	34.47	13.94	7.71	26.84	999.00	27.53	12.55	8.13	27.42	34.25	11.21	12.59	29.02	999.00	-2.29	999.00	-1.44	0.00
20	3 21 15	39.82	13.22	11.24	27.33	999.00	33.78	11.60	10.88	27.91	40.88	11.08	14.79	29.54	999.00	-2.21	999.00	-1.39	0.00
20	3 21 16	34.87	11.17	9.60	28.13	999.00	27.25	10.34	9.81	28.70	31.05	9.60	15.94	30.40	999.00	-2.33	999.00	-1.28	0.00
20	3 21 17	25.59	11.23	10.86	28.78	999.00	18.88	10.61	12.64	29.37	22.84	9.78	13.43	31.06	999.00	-2.21	999.00	-1.26	0.00
20	3 21 18	48.10	10.18	10.05	29.91	999.00	42.53	8.77	11.28	30.65	51.37	8.35	16.20	32.77	999.00	-3.01	999.00	-1.15	0.00
	3 21 19	75.70	8.38	18.58	30.50	999.00	67.75	7.89	17.85	31.29	69.62	7.19	16.70	33.04	999.00	-2.36	999.00	-1.32	0.00
	3 21 20	97.70	5.41	15.29	29.88	999.00	90.30	5.18	15.63	30.48	113.30	3.40	16.38	31.66	999.00	-1.35	999.00	-0.85	0.00
	3 21 21	75.40	4.17	10.59	29.74	999.00	69.16	4.00	9.25	30.10	87.50	2.92	9.62	30.99	999.00	-1.23	999.00	-0.92	0.00
	3 21 22	77.70	7.91	10.19	29.80	999.00	69.00	7.70	11.56	30.20	75.00	5.92	17.24	31.04	999.00	-1.31	999.00	-0.94	0.00
	3 21 23	86.90	7.53	9.87	29.42	999.00	80.10	7.74	10.41	29.82	91.50	5.46	16.21	30.68	999.00	-1.26	999.00	-0.83	0.00
	3 21 24	79.90	6.72	6.53	29.38	999.00	71.80	6.68	6.53	29.80	77.60	5.30	7.94	30.65	999.00	-1.27	999.00	-0.88	0.00
	3 22 1	61.24	7.73	12.08	29.33	999.00	54.40	6.87	11.77	29.74	68.28	6.38	18.79	30.47	999.00	-1.29	999.00	-1.04	0.00
	3 22 2	70.90	12.49	6.62	28.76	999.00	61.09	12.07	5.82	29.26	67.20	10.24	10.73	30.31	999.00	-1.59	999.00	-1.13	0.00
20	3 22 3	83.80	9.15	5.65	28.76	999.00	77.70	9.14	6.56	29.26	85.70	7.08	12.94	30.31	999.00	-1.65	999.00	-1.15	0.00
	3 22 4	70.50	7.36	11.65	27.73	999.00	63.32	7.43	11.82	28.22	74.70	6.38	16.30	29.30	999.00	-1.52	999.00	-1.05	0.00
20	3 22 5	61.24	10.07	8.27	27.73	999.00	53.32	9.14	7.32	28.33	58.53	8.89	9.54	29.30	999.00	-1.55	999.00	-1.12	0.00
20	3 22 6	72.90	10.66	6.86	27.86	999.00	63.26	10.39	6.68	28.33	69.12	7.93	10.26	29.32	999.00	-1.45	999.00	999.00	0.00
	3 22 7	91.90	10.62	10.78	28.73	999.00	83.90	10.15	11.65	29.18	84.90	6.59	13.75	30.15	999.00	-1.42	999.00	-1.05	0.00
	3 22 8	109.30	13.77	7.31	29.70	999.00	102.70	13.18	8.37	30.17	112.50	6.63	14.76	31.10	999.00	-1.29	999.00	-0.93	0.00
20	3 22 9		15.39	6.96	30.06	999.00	99.70	14.81	8.67	30.61	109.90	8.60	15.80	31.84	999.00	-2.18	999.00	-1.58	0.00
	3 22 10		16.59	5.81	30.57	999.00	93.20	16.05	6.56	31.23	99.50	10.29	13.75	32.99	999.00	-2.53	999.00	-1.91	0.00
	3 22 11		20.16	4.33	31.00	999.00	95.60	19.44	5.13	31.77	104.40	11.12	15.24	34.03	999.00	-3.14	999.00	-2.53	0.00
	3 22 12	97.50	19.23	5.94	31.00	999.00	89.80	18.46	6.88	31.77	98.40	11.73	15.78	34.03	999.00	-3.11	999.00	-2.35	0.00
	3 22 13	89.20	18.46	4.19	31.92	999.00	81.00	18.17	4.91	32.57	86.00	12.75	13.21	34.93	999.00	-3.03	999.00	-2.10	0.00
	3 22 14	85.30	16.92	5.38	32.16	999.00	77.80	16.79	6.71	32.76	85.60	12.72	12.75	35.17	999.00	-2.89	999.00	-2.33	0.00
	3 22 15	79.30	17.24	5.68	32.48	999.00	71.90	17.17	6.42	33.12	79.30	12.72	12.64	35.40	999.00	-2.81	999.00	999.00	0.00
	3 22 16	83.30	19.96	4.21	32.53	999.00	75.10	19.47	5.65	33.16	83.30	14.70	11.17	35.14	999.00	-2.53	999.00	-1.84	0.00
	3 22 17	80.50	19.29	5.18	32.53	999.00	72.80	18.63	6.32	33.10	78.70	13.52	11.52	34.82	999.00	-2.18	999.00	-1.57	0.00
	3 22 18	88.30	18.77	3.22	32.78	999.00	80.10	18.30	3.87	33.29	84.40	12.41	10.86	34.88	999.00	-2.18	999.00	-1.61	0.00
	3 22 19	90.20	19.34	4.58	33.13	999.00	82.80	18.70	5.25	33.66	89.30	11.69	13.32	35.13	999.00	-1.94	999.00	-1.40	0.00
	3 22 20	102.60	19.94	4.56	33.52	999.00	94.50	19.24	6.01	34.04	101.10	10.89	14.09	35.30	999.00	-1.73	999.00	-1.16	0.03
20	3 22 21	95.50	17.30	3.03	31.80	999.00	87.60	15.82	3.59	32.26	96.30	9.60	10.54	32.66	999.00	-0.77	999.00	-0.72	0.03
20	3 22 22	92.30	15.98	3.09	31.80	999.00	84.80	14.23	3.64	32.20	92.10	8.37	12.13	32.47	999.00	-0.68	999.00	-0.81	0.08
	3 22 23	92.30	15.10	2.91	32.08	999.00	84.00	13.73	3.83	32.46	88.30	9.07	11.74		999.00		999.00	-0.17	0.03
20	3 22 24	100.40	12.09	3.96	32.81	999.00	91.20	11.26	4.37	33.40	98.70	6.55	13.40	33.74	999.00	-1.11	999.00	-0.97	0.00
20	3 23 1	108.40	14.23	3.38	33.55	999.00	101.00	14.11	3.81	34.07	106.60	8.12	12.53	34.71	999.00	-1.22	999.00	-0.85	0.00
20	3 23 2	100.30	13.07	3.99	34.06	999.00	92.00	12.48	4.85	34.66	96.50	7.22	11.53	35.32	999.00	-1.29	999.00	-0.94	0.00
	3 23 3		14.33	4.25	34.32	999.00	81.20	13.36	4.45	34.97	87.10	8.78	10.58	35.72	999.00		999.00	-1.00	0.00
	3 23 4	88.40	13.71	3.36		999.00	80.50	13.10	4.09	35.06	84.90	8.27	11.25		999.00		999.00	-0.97	0.00
	3 23 5		11.09	10.62			99.30	10.34	15.15	35.30	119.30	6.51	35.18		999.00		999.00	-0.96	0.00
	3 23 6	82.30	10.78	3.35			72.90	10.17	4.31	35.94	79.10	6.68	10.28		999.00		999.00	-0.93	0.00
	3 23 7	74.60	8.88	3.52		999.00	63.28	8.44	3.91	36.24	71.90	5.97	9.63		999.00		999.00	-0.87	0.01
	3 23 8	61.79	6.00	6.91		999.00	51.96	5.39	6.31	36.52	58.30	5.20	9.11		999.00		999.00	-0.88	0.00

20	3 23 9	35.61	10.44	3.24	36.00	999.00	29.56	9.75	3.92	36.62	34.46	7.78	9.24	37.50	999.00	-1.58	999.00	-1.05	0.00
20	3 23 10	32.14	13.53	4.61	35.44	999.00	25.68	12.43	5.97	35.99	30.44	9.84	10.37	37.02	999.00	-1.66	999.00	-1.14	0.00
20	3 23 11	29.44	10.97	5.10	34.79	999.00	23.39	10.96	5.07	35.28	28.19	9.16	8.84	36.47	999.00	-1.72	999.00	-1.14	0.00
20	3 23 12	9.46	10.94	4.95	34.43	999.00	1.79	10.74	6.51	34.89	1.73	9.67	7.66	36.24	999.00	-2.01	999.00	-1.37	0.00
20	3 23 13	342.30	7.54	7.23	34.64	999.00	335.30	7.57	7.97	35.02	336.70	7.48	11.99	36.99	999.00	-2.71	999.00	-2.12	0.00
20			10.55	8.51	35.55	999.00	316.40	10.67	8.13	35.89	327.90	9.16	13.17	38.87	999.00	-3.63	999.00	-3.43	0.00
		316.00	11.65	7.82	39.47	999.00	999.00	11.48	8.74		317.70	8.94	15.67	41.87	999.00	3.99	999.00	-3.30	0.00
	3 23 16		13.47	6.43	42.59	999.00	315.80	12.84	6.46	42.72	320.00	10.23	11.07	42.01	999.00	-2.83	999.00	-1.88	0.00
	3 23 17		10.21	6.40	39.27	999.00	327.70	9.89	8.09		335.70	7.95	13.16	41.87	999.00	-2.44	999.00	-1.56	0.00
	3 23 18		9.94	5.39	39.29	999.00	328.30	9.51	6.23		336.80	7.43	10.32	40.89	999.00	-0.85	999.00	-1.25	0.00
	3 23 19		11.46	3.74	39.38	999.00	327.20	10.66	5.20		330.80	7.10	11.41	41.06	999.00	-1.82	999.00	-1.04	0.00
	3 23 20	341.20	12.52	4.04	39.55	999.00	334.40	11.11	5.28		337.60	7.33	9.67	41.13	999.00	-1.48	999.00	-0.54	0.00
	3 23 21	344.00	10.76	2.35	40.08	999.00	337.60	9.80	3.24	40.36	346.60	5.43	6.70	41.18	999.00	-1.07	999.00	-0.20	0.00
20	3 23 22	22.65	9.35	9.59	39.48	999.00	17.23	8.65	10.46	39.91	23.31	6.74	13.88	40.91	999.00	-1.55	999.00	-0.84	0.00
20	3 23 23	11.63	8.07	4.88	39.48	999.00	4.66	7.17	6.80	39.91	5.71	5.14	8.57	40.91	999.00	-1.64	999.00	-0.77	0.00
20	3 23 24	40.65	9.81	2.21	38.12	999.00	28.66	9.12	4.72	38.49	26.45	7.22	11.62	39.58	999.00	-1.01	999.00	-0.46	0.00
20	3 24 1	14.66	3.91	11.15	38.21	999.00	4.61	4.13	9.60	38.55	350.50	3.59	9.63	39.45	999.00	-1.43	999.00	-0.54	0.00
	3 24 2	29.10	7.86	3.25	37.63	999.00	22.20	7.92	4.31	38.11	24.44	6.47	8.89	39.21	999.00	-1.62	999.00	-0.59	0.00
20	3 24 3	29.05	9.54	4.21	37.17	999.00	22.73	9.53	3.39	37.65	28.55	7.17	8.45	38.77	999.00	-1.61	999.00	-0.67	0.00
20	3 24 4	41.07	8.56	4.25	36.90	999.00	34.64	7.51	3.91	37.36	39.83	6.70	9.00	38.49	999.00	-1.59	999.00	-1.13	0.00
20	3 24 5	56.42	8.13	5.99	36.56	999.00	52.93	7.24	5.62	37.04	68.03	6.63	10.12	38.15	999.00	-1.54	999.00	-1.07	0.00
20	3 24 6	76.00	7.89	3.90	36.22	999.00	69.13	7.68	5.56	36.70	77.80	5.67	11.58	37.81	999.00		999.00	-1.09	0.00
20	3 24 7	73.10	8.92	4.66	36.10	999.00	64.32	8.47	5.07	36.56	72.70	6.57	9.85	37.63	999.00	-1.57	999.00	-1.10	0.00
		103.50		9.50	36.20				12.04	36.67	97.60			37.03	999.00	-1.57	999.00		0.00
			6.28			999.00	96.10	5.33				3.67	18.42					-1.05	
20	3 24 9	98.20	4.73	22.44	36.86	999.00	83.10	5.13	20.77	37.32	73.80	4.94	14.57	38.32	999.00	-1.34	999.00	-0.96	0.00
	3 24 10		9.04	6.14	36.99	999.00	101.90	8.71	8.08	37.48	108.80	4.88	15.41	38.61	999.00	-1.68	999.00	-1.25	0.00
	3 24 11		10.69	4.06	37.00	999.00	104.90	10.27	6.36	37.55	113.90	5.98	15.44	38.88	999.00	-2.03	999.00	-1.46	0.00
	3 24 12		12.59	5.01	36.89	999.00	93.20	12.00	6.38	37.50	98.00	7.71	15.71	39.01	999.00	-2.18	999.00	-1.58	0.00
	3 24 13		13.65	4.33	36.68	999.00	93.40	13.32	5.43	37.26	102.20	8.20	14.45	38.86	999.00	-2.23	999.00	-1.68	0.00
20	3 24 14	84.20	14.79	4.76	36.50	999.00	76.10	14.22	6.19	37.09	82.70	10.47	11.18	38.79	999.00	-2.37	999.00	-1.73	0.00
20	3 24 15	83.00	14.80	5.57	36.39	999.00	74.50	14.48	6.71	36.98	85.20	10.60	12.87	38.85	999.00	-2.35	999.00	-1.85	0.00
20	3 24 16	76.30	15.21	3.94	36.19	999.00	67.82	14.42	5.32	36.84	75.70	10.75	11.75	38.69	999.00	-2.38	999.00	-1.63	0.00
20	3 24 17	70.30	12.67	6.06	35.94	999.00	63.27	12.01	6.97	36.59	71.90	9.88	12.41	38.24	999.00	-2.19	999.00	-1.54	0.00
20	3 24 18	71.30	16.01	4.82	35.87	999.00	62.86	15.97	4.54	36.47	72.30	12.13	8.68	37.95	999.00	-1.97	999.00	-1.33	0.00
20	3 24 19	69.92	17.22	3.75	35.68	999.00	60.72	16.58	5.04	36.24	69.58	12.97	9.52	37.59	999.00	-1.81	999.00	-1.25	0.00
20	3 24 20	86.80	15.76	3.68	35.55	999.00	78.40	15.09	5.37	36.06	82.70	10.74	10.37	37.29	999.00	-1.76	999.00	-1.28	0.00
20	3 24 21	84.10	17.08	2.71	35.17	999.00	76.30	17.02	3.36	35.69	84.40	11.20	10.41	36.96	999.00	-1.83	999.00	-1.29	0.00
	3 24 22	86.70	19.43	2.83	34.90	999.00	79.00	19.02	3.46	35.39	86.30	12.43	11.42	36.58	999.00	-1.70	999.00	-1.24	0.00
	3 24 23	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	37.94	999.00	999.00	999.00	36.80	999.00	999.00	999.00	-1.23	0.00
	3 24 24	85.00	16.54	4.08	35.68	999.00	76.80	16.32	4.75	36.16	81.40	11.32	11.25	37.26	999.00	-1.56	999.00	-1.10	0.00
	3 25 1	86.60	15.55	4.17	35.84	999.00	79.40	14.80	5.03	36.33	82.40	9.27	12.25	37.38	999.00	-1.50	999.00	-1.06	0.00
20	3 25 2	82.00	13.33	4.34	36.11	999.00	74.00	12.76	5.28	36.56	79.90	8.27	11.76	37.55	999.00	-1.44	999.00	-0.94	0.00
	3 25 3	74.60	12.61	3.44		999.00	65.34	11.66	4.54	36.73	72.50	7.92	9.84		999.00		999.00	-0.81	0.00
	3 25 4	65.75	10.89	4.96		999.00	57.54	10.08	5.80	36.69	62.64	7.64	10.35		999.00		999.00	-0.85	0.00
	3 25 5	56.62	11.12	4.71		999.00	50.57	9.28	5.42	36.55	56.81	8.55	8.83		999.00		999.00	-0.90	0.00
	3 25 6	49.04	10.10	7.51		999.00	44.02	8.26	8.64	36.51	45.58	8.40	10.64		999.00		999.00	-1.14	0.00
	3 25 7	52.40	8.67	9.46		999.00	44.75	7.45	9.93	36.30	44.16	7.76	11.56		999.00		999.00	-1.18	0.00
	3 25 8	36.41	8.44	8.54		999.00	28.47	7.64	9.22	35.91	30.56	6.92	10.95		999.00		999.00	-1.18	0.00
	3 25 9	56.24	4.81	14.15	35.28		52.46	4.33	13.16	35.84	56.90	3.67	25.84		999.00		999.00	-1.10	0.00
20	3 25 10	16.20	3.80	16.89	35.26	999.00	11.10	4.13	17.79	35.88	23.92	4.28	24.77		999.00	-2.26	999.00	-1.18	0.00
20	3 25 11	340.20	4.55	15.53	35.40	999.00	331.90	4.52	16.04	36.17	339.20	4.19	30.59	37.94	999.00	-2.75	999.00	-1.62	0.00
20	3 25 12	326.00	3.97	16.58	35.60	999.00	318.10	3.90	17.55	36.38	330.20	2.78	51.16	38.35	999.00	-3.01	999.00	-1.84	0.00

	3 25 13		5.26	27.97	36.79	999.00		4.86	28.76		341.40	4.72	23.78		999.00		999.00	-2.11	0.00
20	3 25 14	223.30	4.90	19.66	39.39	999.00	212.70	4.67	23.49	40.37	214.40	4.01	36.06	42.97	999.00	-3.79	999.00	-2.01	0.00
20	3 25 15	86.90	4.39	46.27	41.89	999.00	63.52	4.19	33.69	42.98	44.82	4.89	17.42	45.40	999.00	-3.19	999.00	-1.47	0.00
20	3 25 16	137.50	4.12	49.15	42.10	999.00	97.10	4.79	22.27	43.11	85.70	5.40	16.78	44.79	999.00	-2.33	999.00	-1.00	0.00
20	3 25 17	171.10	3.23	23.86	44.85	999.00	124.20	3.79	11.45	45.22	90.10	5.94	9.93	45.25	999.00	0.36	999.00	0.37	0.00
20			7.10	10.52	44.85	999.00	195.90	4.86	17.66	45.22	99.10	3.99	16.08	45.25	999.00	1.10	999.00	1.84	0.00
	3 25 19		9.30	6.47	50.03	999.00	208.30	8.74	9.00		213.20	6.19	15.40	51.19	999.00	-2.47	999.00	-1.17	0.00
	3 25 20		10.80	5.64	50.34	999.00	201.50	10.04	5.27	50.78	200.60	4.54	9.42	51.30	999.00	-0.22	999.00	0.17	0.00
20			13.30	1.74	50.38	999.00	199.90	11.93	2.92		187.50	3.58	8.16	49.32	999.00	1.87	999.00	1.75	0.00
	3 25 22		13.07	3.27	50.59	999.00	213.50	12.42	3.44		213.20	2.83	12.00	48.23	999.00	2.75	999.00	2.83	0.00
	3 25 23		14.48	2.43	50.63	999.00	192.80	13.32	3.44		169.30	4.15	6.59	47.23	999.00	3.82	999.00	3.39	0.00
20																			
20	3 25 24		15.25	0.99	51.05	999.00	180.90	14.77	1.16		169.00	3.42	8.81	46.65	999.00	4.63	999.00	4.13	0.00
	3 26 1		19.97	2.08	51.77			18.39	2.14		162.40	4.74	12.59	45.96	999.00	7.06	999.00	4.02	0.00
		191.00	20.33	1.39	52.92	999.00	181.80	14.68	2.54		179.10	3.31	10.73	46.88	999.00	4.83	999.00	2.60	0.00
20	3 26 3		21.51	1.53	51.85	999.00	181.10	15.84	1.99		172.80	4.30	9.77	46.64	999.00	5.07	999.00	3.38	0.00
20	3 26 4		22.58	1.12	51.57	999.00		17.94	1.92		180.40	5.12	9.56	46.85	999.00	3.93	999.00	2.39	0.00
20	3 26 5		22.15	2.10	50.60		193.40	18.14	2.80		197.00	6.44	9.12	47.18	999.00	3.19	999.00	2.21	0.00
20	3 26 6		23.36	1.78	49.73	999.00	199.70	19.42	2.13		199.40	7.54	10.67	47.24	999.00	2.34	999.00	1.55	0.00
20	3 26 7	206.50	25.13	3.09	49.05	999.00		20.45	3.38		194.00	8.59	10.43	46.90	999.00	2.26	999.00	1.25	0.00
20	3 26 8	205.40	24.80	2.54	47.68	999.00	195.80	19.83	3.27	47.21	200.60	8.07	13.81	46.28	999.00	1.53	999.00	0.94	0.00
20	3 26 9	203.80	24.01	4.38	47.96	999.00	195.10	20.76	5.06	47.61	197.80	11.18	12.57	47.54	999.00	-0.64	999.00	-0.47	0.00
20	3 26 10	223.10	20.21	5.57	48.86	999.00	217.00	18.46	5.83	49.28	224.70	12.03	12.82	50.90	999.00	-2.43	999.00	-1.61	0.00
20	3 26 11	243.10	21.01	5.61	51.91	999.00	236.70	20.14	6.07	52.43	241.60	14.07	8.76	54.22	999.00	-1.73	999.00	-1.03	0.00
20	3 26 12	249.20	16.80	6.73	53.50	999.00	242.80	16.51	6.44	54.03	245.10	12.27	8.95	55.82	999.00	-2.29	999.00	-1.46	0.00
20	3 26 13	255.50	14.78	7.49	53.50	999.00	249.80	14.19	8.26	54.03	250.80	10.82	11.36	55.82	999.00	-3.13	999.00	-1.82	0.00
20	3 26 14	253.80	13.47	9.44	56.36	999.00	247.20	13.05	8.49	57.03	253.40	10.62	13.04	59.26	999.00	-3.66	999.00	-2.46	0.00
20	3 26 15	258.30	10.81	8.84	58.21	999.00	254.60	10.29	11.79	58.89	257.90	8.03	18.91	61.08	999.00	-2.73	999.00	-1.70	0.00
20	3 26 16		9.07	8.91	58.21	999.00	352.60	9.01	8.84	58.89	15.15	6.39	19.63	61.08	999.00	1.61	999.00	1.54	0.00
	3 26 17	7.28	9.90	3.22	56.14	999.00	13.78	8.17	7.87	55.63	88.00	3.93	24.40	53.12	999.00	2.85	999.00	2.77	0.00
	3 26 18	7.37	7.91	2.79	55.74	999.00	7.53	7.23	5.30	55.51	104.80	1.69	36.54	52.25	999.00	3.68	999.00	3.12	0.01
	3 26 19	26.06	12.24	7.29	54.78	999.00	27.56	11.11	6.24	54.70	48.11	7.43	6.41	52.02	999.00	2.64	999.00	2.31	0.04
	3 26 20	37.55	18.21	1.81	52.46	999.00	36.23	12.35	5.29	51.70	35.18	6.85	11.32	49.47	999.00	3.66	999.00	2.12	0.03
	3 26 21	56.18	16.88	3.48	50.88	999.00	51.84	13.95	5.13	50.55	53.85	11.45	9.38	48.01	999.00	0.96	999.00	0.10	0.03
	3 26 22	53.87	21.92	4.74	50.88	999.00	46.14	16.91	6.21	50.55	49.15	13.26	9.23	48.01	999.00	1.81	999.00	0.78	0.03
	3 26 23	62.11	12.96	4.74	45.90	999.00	65.38	17.32	3.37	43.39	75.50	10.47	10.28	42.20	999.00	5.27	999.00	1.78	0.03
	3 26 24	87.60																-0.76	0.03
			17.26	3.28	43.93	999.00	85.40	14.95	5.11	42.31	99.90	7.85	13.40	42.21	999.00		999.00		
	3 27 1	58.35	14.20	9.70	43.93	999.00	51.52	10.98	9.20	42.31	55.62	10.67	14.11	42.21	999.00	-1.44	999.00	-0.64	0.04
20		43.06	13.24	5.05	39.00	999.00	36.76	10.89	6.07	39.13	43.64	10.34	8.33	39.68	999.00	-1.36	999.00	-0.71	0.00
20		38.68	12.69	3.52	37.88	999.00	32.78	10.80	4.95	38.50	35.63	10.48	8.90	39.26	999.00	-1.43	999.00	-0.80	0.00
	3 27 4	38.42	9.88	5.42	37.58	999.00	31.48	8.56	7.58	38.20	31.80	8.37	9.39	39.01	999.00	-1.45	999.00	-0.76	0.00
	3 27 5	55.55	9.66	7.01	37.36	999.00	50.92	8.17	7.21	38.02	61.69	8.01	10.87	38.78	999.00	-1.35	999.00	-0.58	0.00
	3 27 6	68.98	9.62	7.58	37.14	999.00	60.61	9.27	7.15	37.79	70.50	7.57	12.40	38.65	999.00	-1.59	999.00	-0.56	0.00
	3 27 7	68.57	8.32	6.96		999.00	58.90	7.89	6.78	37.67	60.51	6.90	10.71		999.00		999.00	-0.61	0.00
	3 27 8		10.71	6.52	36.95	999.00	50.97	9.23	7.05	37.68	60.14	8.50	11.53	38.78	999.00		999.00	-0.75	0.00
	3 27 9	53.58	13.08	5.05		999.00	47.12	10.88	6.19	37.45	52.04	10.80			999.00		999.00	-1.04	0.00
	3 27 10	71.40	12.04	5.36	36.17	999.00	63.47	11.93	5.36	36.93	72.40	8.95	12.04	38.35	999.00	-2.12	999.00	-1.12	0.00
	3 27 11	69.97	11.29	6.63	36.32	999.00	61.00	11.13	6.36	37.01	68.01	9.94	10.65	38.51	999.00	-2.35	999.00	-1.52	0.00
20	3 27 12	84.90	13.92	6.61	36.87	999.00	77.70	13.49	7.92	37.54	83.90	10.07	14.60	39.56	999.00	-2.81	999.00	-2.09	0.00
20	3 27 13	81.10	15.63	5.24		999.00	73.40	15.20	5.81	37.91	80.30	11.55	10.82		999.00	-2.46	999.00	-1.88	0.00
	3 27 14	84.00	16.66	5.71		999.00	75.60	15.77	7.59	38.18	81.90	12.01	12.76		999.00	-2.51	999.00	-1.94	0.00
20	3 27 15	77.50	17.79	4.69	37.23	999.00	70.30	17.52	5.57	37.95	80.80	13.14	10.79		999.00		999.00	-1.88	0.00
	3 27 16		14.02	4.11		999.00	80.40	13.54	4.28	37.95	83.50	10.91	10.23		999.00		999.00	-2.21	0.00
	•			-															

	3 27 17	72.30	13.98	6.49		999.00	63.56	12.89	7.07	38.95	68.54	11.78	11.45		999.00		999.00	-2.12	0.00
20	3 27 18	66.57	10.68	6.86	37.83	999.00	60.48	10.98	6.07	38.63	73.20	9.88	12.41	40.23	999.00	-2.20	999.00	-1.52	0.00
20	3 27 19	85.30	13.77	4.22	37.52	999.00	79.60	13.82	5.25	38.21	89.00	9.64	11.53	39.63	999.00	-2.08	999.00	-1.27	0.00
20	3 27 20	83.70	13.07	5.43	37.31	999.00	78.30	12.90	5.64	37.97	89.40	9.22	10.31	39.35	999.00	-1.99	999.00	-1.07	0.00
20	3 27 21	83.50	14.90	9.87	36.88	999.00	75.80	14.70	10.73	37.55	83.80	10.22	15.56	38.81	999.00	-1.87	999.00	-0.69	0.06
	3 27 22	103.50	13.36	5.13	36.88	999.00	97.00	13.30	5.48	37.55	104.00	8.27	13.09	38.81	999.00		999.00	-0.64	0.04
	3 27 23	92.80	17.53	2.75	36.92	999.00	85.20	16.54	3.39	37.51	91.10	11.03	10.18	38.23	999.00	-1.37	999.00	-0.88	0.12
	3 27 24	101.20	18.35	4.81	37.40	999.00	92.50	15.61	5.52	37.91	97.70	8.54	14.29	38.66	999.00	-1.13	999.00	-0.85	0.13
	3 27 24	96.00	18.18	5.15	37.40	999.00	87.20	15.38	7.06	37.91	94.00	9.23	14.71	38.66	999.00	-1.05	999.00	-0.92	0.08
20		93.10	18.21	7.11	39.22	999.00	80.50	16.45	6.52	39.48	86.40	10.28	13.15	40.21	999.00		999.00	-0.76	0.02
	3 28 3	78.00	18.79	9.01	40.65	999.00	66.07	14.78	10.86	40.27	67.20	9.94	16.54	40.82	999.00	-0.51	999.00	-0.60	0.00
20	3 28 4	89.90	28.58	2.76	40.89	999.00	79.00	25.50	3.77	40.75	88.30	13.45	11.06	41.17	999.00	0.42	999.00	-0.54	0.20
20	3 28 5	66.45	14.63	9.87	42.88	999.00	55.96	12.98	9.52	42.06	57.17	10.02	16.09	42.02	999.00	-0.89	999.00	-0.68	0.52
	3 28 6	108.90	30.09	4.56	45.00	999.00	102.50	26.67	6.92	42.81	116.80	12.41	13.48	42.40	999.00	3.59	999.00	0.40	0.00
20	3 28 7	135.90	17.24	2.31	46.63	999.00	121.30	12.84	5.12	44.69	115.10	6.46	13.50	43.94	999.00	1.57	999.00	0.55	0.00
	3 28 8	125.50	20.93	4.04	48.70	999.00	116.60	17.83	5.93	48.22	116.20	8.18	16.19	46.88	999.00	0.15	999.00	-0.13	0.00
20	3 28 9	64.69	15.65	6.10	45.18	999.00	49.00	13.71	6.30	44.45	46.76	13.48	8.53	43.86	999.00	1.02	999.00	-0.55	0.02
20	3 28 10	91.90	21.77	3.47	43.18	999.00	77.60	18.68	4.92	41.07	85.20	10.63	11.38	41.46	999.00	1.47	999.00	-0.62	0.01
20	3 28 11	77.30	17.81	3.79	41.40	999.00	68.37	14.40	5.84	41.15	80.10	8.74	10.58	41.83	999.00	-0.45	999.00	-0.63	0.00
20	3 28 12	57.02	15.82	6.55	40.43	999.00	48.54	12.54	7.44	40.65	53.42	11.62	11.73	41.57	999.00	-1.39	999.00	-0.99	0.01
20	3 28 13	48.85	18.06	6.21	39.22	999.00	43.36	14.47	7.70	39.63	48.67	13.41	10.61	40.79	999.00	-1.50	999.00	-0.94	0.06
20	3 28 14	87.50	18.00	4.40	39.60	999.00	80.90	16.35	5.98	39.88	92.20	10.02	13.78	41.36	999.00	-1.95	999.00	-1.38	0.00
	3 28 15	107.70	8.99	13.91	40.21	999.00	96.40	8.87	15.37	40.37	97.20	7.03	22.03	42.17	999.00	-1.86	999.00	-1.21	0.00
	3 28 16		4.73	18.47	41.31	999.00	93.70	4.83	18.66	41.23	93.00	4.10	25.74	42.69	999.00	-1.30	999.00	-1.04	0.00
	3 28 17	139.10	3.17	12.61	41.83	999.00	124.40	2.85	20.27	41.81	107.30	2.61	32.95	43.28	999.00	-1.48	999.00	-1.17	0.00
	3 28 18	14.57	8.12	7.74	42.66	999.00	19.59	7.84	8.97	42.06	40.66	7.81	11.97	42.33	999.00	-0.23	999.00	0.08	0.00
	3 28 19	1.23	10.34	7.63	42.21	999.00	5.67	9.68	7.98	41.83	10.11	7.57	14.84	42.12	999.00	-0.17	999.00	-0.39	0.02
	3 28 20	77.90	13.07	4.10	40.91	999.00	73.50	11.94	6.66	40.65	85.60	7.25	14.75	41.27	999.00	-0.82	999.00	-0.81	0.01
20	3 28 21	101.40	15.20	3.18	40.16	999.00	97.10	13.73	4.95	40.03	107.00	7.25	11.94	41.12	999.00	-1.00	999.00	-0.85	0.00
					40.10				4.68		97.80		9.27				999.00	-0.75	0.00
20			20.05	3.18		999.00	93.80	16.22		40.36		10.24		41.13	999.00	-0.58			
	3 28 23	91.50	15.14	3.44	40.78	999.00	77.50	13.34	5.12	40.92	79.30	8.23	9.92	41.73	999.00	-0.87	999.00	-0.95	0.00
20	3 28 24		16.50	4.70	40.35	999.00	91.90	15.07	6.77	40.21	96.60	9.61	13.94	41.02	999.00	-1.00	999.00	-0.82	0.14
20	3 29 1	89.70	9.34	29.22	41.54	999.00	65.44	8.74	28.48	40.82	58.61	6.33	39.60	41.34	999.00	0.74	999.00	-0.20	0.08
	3 29 2		17.09	6.72	47.78	999.00	146.10	16.08	9.57		117.90	9.31	14.19	42.33	999.00	7.24	999.00	4.27	0.00
20	3 29 3		24.99	2.42	50.72	999.00	138.70	19.75	2.46		129.10	7.94	9.63	45.29	999.00	4.58	999.00	2.43	0.01
	3 29 4		25.71	3.13	50.72	999.00		20.80	4.32		155.40	8.15	13.91	45.29	999.00	2.29	999.00	1.20	0.01
20	3 29 5		23.61	4.40	58.61	999.00	161.60	20.60	4.42		152.20	7.96	14.21	56.42	999.00	2.12	999.00	0.67	0.02
20		170.90	22.58	2.85	59.58	999.00	160.70	18.71	3.92		155.20	6.97	13.99	57.67	999.00	1.86	999.00	1.04	0.00
20	3 29 7	195.60	26.68	4.02	59.58	999.00	188.60	24.27	5.03	59.35	193.70	12.73	12.81	57.67	999.00	1.30	999.00	1.00	0.00
20	3 29 8	209.40	27.71	3.54	63.25	999.00	202.80	24.53	4.11	63.78	208.60	11.11	13.59	62.57	999.00	0.17	999.00	0.95	0.00
20	3 29 9	221.30	30.60	5.82	63.60	999.00	214.10	28.12	6.07	63.90	223.00	16.05	12.40	63.10	999.00	0.78	999.00	1.57	0.00
20	3 29 10	232.60	29.19	5.92	63.42	999.00	225.50	26.89	6.41	63.77	231.60	18.19	10.51	63.08	999.00	-0.47	999.00	-0.88	0.00
20	3 29 11	247.90	28.65	5.76	62.62	999.00	241.30	27.40	6.50	63.07	245.60	19.22	9.48	63.81	999.00	-1.19	999.00	-1.00	0.00
	3 29 12		37.43	5.60		999.00		36.13	5.59		246.10	26.37	8.43	62.80	999.00		999.00	-1.07	0.00
	3 29 13		40.25	5.19		999.00		38.60	5.82		249.20	27.79	9.19		999.00		999.00	-1.11	0.00
	3 29 14		42.13	6.81		999.00		40.78	6.50		241.30	30.23	8.66		999.00		999.00	-1.32	0.00
	3 29 15		51.21	4.84		999.00		49.21	5.22		246.60	36.84	7.96		999.00		999.00	-1.01	0.00
	3 29 16		45.18	4.93		999.00		44.20	5.00		245.50	33.16	8.71		999.00		999.00	-1.13	0.00
	3 29 17		37.85	5.01		999.00		36.31	5.07		243.30	27.44	8.22		999.00		999.00	-1.13	0.00
															999.00		999.00		
	3 29 18		35.48	4.87	50.13	999.00		34.09	4.61		243.90	25.69	8.38					-0.86	0.00
	3 29 19		30.50	4.62		999.00		29.10	4.67		247.60	20.69	8.59		999.00		999.00	-0.64	0.00
20	3 29 20	Z48.ZU	25.67	4.55	21.68	999.00	Z4U.ZU	23.71	4.73	5∠.05	244.90	15.92	8.89	5∠.59	999.00	-0.79	999.00	-0.47	0.00

20	3 29 21	250.60	23.91	4.82	52.10	999.00	243.30	22.01	5.04	52.37	249.60	14.12	8.34	52.07	999.00	0.78	999.00	0.02	0.01
20	3 29 22	257.90	25.89	5.34	50.76	999.00	249.10	24.14	5.71	51.50	253.60	16.29	8.70	50.88	999.00	0.06	999.00	-0.19	0.01
20	3 29 23	263.80	25.46	6.19	50.89	999.00	256.00	23.19	7.10	51.07	260.00	15.63	9.68	51.05	999.00	-0.41	999.00	-2.67	0.00
20	3 29 24	264.60	29.60	5.66	50.63	999.00	257.10	27.49	6.34	51.01	260.30	18.97	9.17	50.69	999.00	0.23	999.00	-2.21	0.00
20	3 30 1		31.01	6.18	49.80	999.00	260.10	28.59	7.43	50.22	263.70	19.23	9.78	50.85	999.00	-1.27	999.00	-2.47	0.00
20	3 30 2		32.96	7.25	49.80	999.00	258.00	30.52	7.82		263.00	21.41	12.18	50.85	999.00	-1.24	999.00	-2.39	0.00
		259.60	25.55	5.94	47.45	999.00	252.40	23.37	6.81		258.50	15.73	11.00	48.67	999.00	-1.19	999.00	-2.00	0.00
20	3 30 4		28.67	5.23	46.57	999.00	252.70	26.32	6.47	47.02	259.30	18.05	9.87	47.85	999.00	-1.31	999.00	-2.13	0.01
	3 30 4		21.56		46.57	999.00	250.00	19.51			254.50	13.24			999.00	-1.29	999.00		0.00
20				5.77					6.44				9.64	47.85				-1.73	
20	3 30 6	260.40	20.86	5.14	43.95	999.00	253.20	19.15	6.33		258.40	13.69	9.64	45.32	999.00	-1.44		-1.77	0.00
20	3 30 7	260.00	24.68	5.96	43.02	999.00	251.90	22.81	6.26		254.80	15.53	9.60	44.46	999.00	-1.43	999.00	-1.77	0.00
20	3 30 8		23.04	6.98	42.16	999.00	250.00	21.74	7.10		254.70	15.06	10.93	43.60	999.00	-1.55	999.00	-1.82	0.00
20	3 30 9	281.80	25.85	6.30	41.39	999.00	273.50	24.20	6.72	41.90	277.10	17.78	9.00	42.99	999.00	-1.78	999.00	-2.13	0.00
20	3 30 10	276.00	23.32	7.10	41.15	999.00	267.90	21.88	7.17	41.77	270.20	16.50	11.24	43.27	999.00	-2.02	999.00	-2.01	0.00
20	3 30 11	272.90	24.88	6.61	40.93	999.00	264.40	23.39	6.47	41.51	266.00	16.64	11.08	42.91	999.00	-1.92	999.00	-1.75	0.00
20	3 30 12	271.10	24.75	5.76	41.07	999.00	262.70	23.37	6.55	41.64	264.80	17.07	9.76	43.06	999.00	-2.14	999.00	-1.92	0.00
20	3 30 13	278.50	24.15	8.17	41.75	999.00	270.50	23.15	8.02	42.35	272.20	16.65	10.66	43.99	999.00	-2.23	999.00	-1.78	0.00
20	3 30 14	279.00	20.35	7.90	42.30	999.00	271.00	19.35	9.22	42.89	274.70	14.29	12.53	44.46	999.00	-2.18	999.00	-1.60	0.00
20	3 30 15		23.17	4.78	44.09	999.00	275.70	21.82	5.38		279.20	15.39	10.38	45.97	999.00	-1.80	999.00	-1.37	0.00
20	3 30 16		20.29	7.67	44.73	999.00	268.60	19.00	7.81	45.27	270.90	13.41	10.96	46.54	999.00	-1.81	999.00	-1.29	0.00
	3 30 17	280.90	19.95	6.73	44.25	999.00	273.40	18.57	7.51	44.78	277.00	13.25	10.15	45.89	999.00	-1.60	999.00	-1.11	0.00
	3 30 17		18.10	6.01	44.25	999.00	280.70	16.84	6.93	44.78	281.50	11.54	10.55	45.89	999.00	-1.50	999.00	-1.08	0.00
20	3 30 10		19.02	5.47	42.66	999.00	279.10	18.04	6.66	43.17	279.70	12.61	9.99	44.30	999.00	-1.66	999.00	-1.13	0.00
	3 30 20		16.35	4.42			309.40				313.40				999.00		999.00		0.00
					42.40	999.00		15.72	4.43			10.12	11.56	43.80		-1.37		-0.94	
	3 30 21		13.22	8.81	42.40	999.00	295.20	12.31	9.15	42.87	293.90	7.78	13.21	43.80	999.00	-1.26	999.00	-0.72	0.00
20			14.07	6.44	41.17	999.00	295.80	13.32	6.78		293.40	8.81	11.17	42.16	999.00	-1.20	999.00	-0.84	0.01
	3 30 23		15.74	5.23	40.97	999.00	311.90	15.00	5.59		317.20	10.04	10.59	42.33	999.00	-1.42	999.00	-1.00	0.00
	3 30 24		15.80	3.85	40.91	999.00	320.60	15.03	5.13		323.30	10.33	10.24	42.26	999.00	-1.38	999.00	-0.92	0.00
20	3 31 1		13.72	6.41	40.59	999.00	323.50	13.35	7.14	41.07	325.20	10.00	10.05	42.00	999.00	-1.46	999.00	-1.02	0.00
20	3 31 2	331.00	13.30	4.32	40.15	999.00	322.70	12.77	5.40	40.63	323.10	9.16	8.96	41.60	999.00		999.00	-0.98	0.00
	3 31 3		13.37	4.82	40.08	999.00	334.50	12.62	5.12	40.56	337.90	9.47	8.93	41.51	999.00	-1.43	999.00	-0.99	0.00
20	3 31 4	359.90	16.17	3.79	39.90	999.00	353.00	16.01	4.42	40.39	358.40	11.78	8.03	41.47	999.00	-1.65	999.00	-1.17	0.00
20	3 31 5	4.39	13.71	5.09	39.62	999.00	356.80	13.27	5.69	40.11	2.60	10.28	7.60	41.27	999.00	-1.65	999.00	-1.18	0.00
20	3 31 6	53.24	11.83	8.62	39.53	999.00	48.65	10.01	9.83	40.05	58.19	9.26	13.05	41.21	999.00	-1.74	999.00	-1.19	0.00
20	3 31 7	81.20	10.80	4.47	39.53	999.00	74.80	10.27	5.55	40.05	86.00	6.82	11.75	41.21	999.00	-1.69	999.00	-1.20	0.00
20	3 31 8	72.10	9.63	4.20	38.44	999.00	63.31	9.14	4.61	38.92	75.60	7.01	10.51	40.06	999.00	-1.63	999.00	-1.15	0.00
20	3 31 9	52.61	9.37	7.81	38.51	999.00	47.81	8.03	7.93	39.03	59.34	7.66	13.30	40.21	999.00	-1.73	999.00	-1.23	0.00
20	3 31 10	55.83	9.70	7.41	38.24	999.00	50.98	8.50	6.72	38.80	61.42	7.88	11.87	40.10	999.00	-1.96	999.00	-1.32	0.00
20	3 31 11	58.28	8.52	9.05	38.13	999.00	53.42	7.84	8.29	38.76	65.13	7.69	12.40	40.10	999.00	-1.93	999.00	-1.27	0.00
	3 31 12	58.60	9.98	7.63	37.93	999.00	51.28	8.38	7.86	38.55	60.33	9.03	11.12	39.92	999.00		999.00	-1.30	0.00
	3 31 13	74.50	9.06	6.33	37.89	999.00	69.16	8.64	6.78	38.45	80.30	6.91	12.11	39.70	999.00	-1.74	999.00	-1.31	0.00
	3 31 14	67.75	10.60	5.55	38.08	999.00	61.52	10.19	6.38	38.69	72.50	8.53	11.26	40.10	999.00	-2.14	999.00	-1.46	0.00
	3 31 14	59.11	8.61	7.31		999.00	54.38	7.79	7.11	38.95	63.41	7.69	10.90		999.00		999.00	-1.38	0.00
	3 31 16		9.17	12.34		999.00	20.74	8.71	13.95	39.23	23.28	7.09	15.62		999.00		999.00	-1.18	0.00
	3 31 17	32.64	9.86	9.27		999.00	27.85	9.26	7.19	39.38	38.23	8.59	10.07		999.00		999.00	-1.17	0.00
	3 31 18	28.68	9.75	12.57		999.00	24.64	8.71	11.46	39.50	39.97	7.51	11.70		999.00		999.00	-1.13	0.00
	3 31 19	53.43	8.31	10.09	39.30		52.25	7.32	8.82	39.88	72.10	6.74	11.05		999.00		999.00	-1.24	0.00
	3 31 20	68.18	7.81	7.69	39.04	999.00	60.21	7.30	6.63	39.60	68.68	6.03	10.46		999.00		999.00	-1.13	0.00
	3 31 21	48.80	9.99	8.49		999.00	44.03	7.54	9.08	39.83	49.33	8.15	11.18		999.00		999.00	-1.02	0.00
	3 31 22	52.56	10.46	7.44		999.00	48.08	8.26	6.87	39.87	57.88	7.09	10.94		999.00		999.00	-0.91	0.00
	3 31 23	58.27	9.91	5.90		999.00	53.62	8.30	5.68	40.13	67.54	6.55	11.67		999.00		999.00	-0.94	0.00
20	3 31 24	48.72	14.64	5.82	40.15	999.00	42.03	11.71	7.09	40.68	44.80	12.18	8.92	41.75	999.00	-1.74	999.00	-1.23	0.00

00 4	1 1	F2 2F	10 50	6 10	20.00	000 00	46.24	10.06	6 06	40 40	F1 66	0.05	0 17	41 65	000 00	1 70	000 00	1 00	0 00
20 4		53.35	12.52	6.18		999.00	46.34	10.26	6.96	40.48	51.66	9.85	9.17		999.00		999.00	-1.23	0.00
		64.54	13.76	4.73	39.80	999.00	56.79	12.98	4.94	40.34	65.86	10.00	10.34	41.46	999.00	-1.63	999.00	-1.12	0.00
	1 3	40.38	11.95	10.19	39.79	999.00	34.72	10.38	11.30	40.31	42.76	9.17	13.91	41.42	999.00	-1.68	999.00	-1.17	0.00
20 4	1 4 1 5	33.15 42.41	14.57 15.91	5.40 6.22	39.89 39.73	999.00 999.00	25.63 34.94	13.07 13.48	5.30 7.81	40.35 40.21	32.10 40.68	10.78 11.25	9.22 9.97	41.47	999.00 999.00	-1.57 -1.12	999.00	-1.03	0.00
20 4 20 4	1 6	42.41	15.27	3.19	39.73	999.00	34.86	12.96	4.70	40.21	41.28	11.20	9.48	40.91	999.00	-1.12	999.00	-0.64 -0.61	0.00
20 4	1 7	32.02	15.05	7.26	39.80	999.00	28.45	13.53	6.87	40.10	35.82	10.80	11.81	40.86	999.00	-1.18	999.00	-0.59	0.00
20 4	1 8	34.67	17.01	2.84	39.80	999.00	27.60	15.23	3.95	40.28	34.95	11.90	9.14	40.86	999.00	-1.45	999.00	-0.59	0.00
	1 9	40.03	14.18	4.26	39.44	999.00	34.03	11.77	5.83	39.93	40.30	10.28	10.06	41.08	999.00	-1.78	999.00	-0.99	0.00
	1 10	31.68	14.46	6.48	39.79	999.00	25.85	13.03	6.33	40.31	33.45	11.18	11.03	42.06	999.00	-2.53	999.00	-1.42	0.00
		6.76	13.02	7.78	40.09	999.00	359.10	12.73	8.03	40.66	4.17	11.16	8.76	42.63	999.00	-2.59	999.00	-1.54	0.00
	1 12	15.05	9.42	13.50	40.52	999.00	7.28	9.25	12.85	41.15	16.23	8.34	13.35	43.41	999.00	-3.23	999.00	-1.98	0.00
	1 13	10.01	9.57	16.93	41.66	999.00	1.70	9.04	15.80	42.34	2.71	8.21	14.32	44.06	999.00	-2.70	999.00	-2.13	0.00
	1 14	3.05	8.04	12.28	42.12	999.00	349.50	8.21	9.71	42.78	342.30	7.88	11.27	44.78	999.00	-2.60	999.00	-2.16	0.00
	1 15	348.80	7.42	6.47	42.64	999.00	341.90	7.29	7.43		349.60	6.35	13.63	45.39	999.00	-2.70	999.00	-2.09	0.00
	1 16	358.80	8.09	11.83	43.53	999.00	352.60	7.88	10.60	44.20	1.98	7.21	16.01	46.32	999.00	-2.89	999.00	-2.20	0.00
	1 17		9.84	8.62	44.08	999.00	317.90	9.82	7.29		325.60	8.24	12.39	46.81	999.00	-2.36	999.00	-1.10	0.00
		318.00	8.67	4.63	44.12	999.00	309.10	8.72	4.74	44.73	311.10	7.03	13.46	46.37	999.00	-2.14	999.00	-1.68	0.00
		323.70	9.20	3.76	44.01	999.00	314.90	8.55	5.67		322.20	6.16	11.85	45.88	999.00	-1.59	999.00	-1.28	0.00
20 4	1 20	328.10	9.49	3.09	44.43	999.00	316.40	8.33	5.57		318.00	4.92	12.75	45.62	999.00	-1.16	999.00	-0.74	0.00
20 4	1 21	317.60	7.40	2.04	45.03	999.00	307.40	7.81	2.04	45.00	300.50	3.73	7.45	45.17	999.00	0.15	999.00	0.39	0.00
20 4	1 22	331.90	7.23	2.83	45.33	999.00	332.40	7.60	2.63	45.37	318.00	3.67	11.38	45.08	999.00	0.50	999.00	0.31	0.00
20 4	1 23	331.50	5.60	5.32	45.46	999.00	328.60	5.98	5.26	45.35	284.70	3.07	19.83	44.50	999.00	1.40	999.00	1.04	0.00
20 4	1 24	296.30	7.97	6.10	44.91	999.00	280.90	6.69	3.11	44.95	253.80	1.65	29.47	43.64	999.00	1.43	999.00	999.00	0.00
20 4		330.00	12.22	2.62	44.23	999.00	320.10	10.52	4.01	44.15	286.90	2.60	14.52	42.66	999.00	2.57	999.00	999.00	0.00
20 4	2 2	339.20	13.79	3.65	44.23	999.00	324.10	12.14	4.15	44.15	297.80	5.37	6.99	42.66	999.00	0.98	999.00	1.00	0.00
20 4	2 3	332.40	14.69	5.59	43.96	999.00	318.40	12.66	5.26		303.10	5.45	8.06	43.08	999.00	0.75	999.00	1.05	0.00
20 4	2 4		14.42	3.32	999.00	999.00	317.00	13.21	3.30		283.90	5.65	4.93	41.70	999.00	2.40	999.00	2.52	0.00
20 4	2 5	330.30	16.56	3.89	43.53	999.00	321.20	14.41	3.92		282.20	5.14	8.26	40.78	999.00	3.11	999.00	3.20	0.00
20 4	2 6	320.10	14.00	5.51	43.11	999.00	310.70	12.79	5.24		280.30	6.64	5.70	41.40	999.00	1.31	999.00	1.56	0.00
20 4	2 7		15.40	4.69	42.40	999.00	314.70	14.49	3.94		288.60	6.09	6.66	40.62	999.00	1.89	999.00	2.16	0.00
20 4	2 8	321.70	15.68	3.21	41.70		315.20	15.01	3.72		297.90	7.59	11.35	40.59	999.00	0.09	999.00	0.49	0.00
20 4	2 9	999.00	14.31	4.36	41.11	999.00	308.50	13.60	4.67		310.00	8.83	11.89	43.01	999.00	-2.10	999.00	-1.95	0.00
20 4		317.40	13.09	6.41	41.86	999.00	309.00 310.60	12.90	6.22		314.10	10.53	11.05	44.20	999.00	-2.46	999.00	-2.41	0.00
		321.40	12.95	7.79	43.51 46.40	999.00		12.55	7.20 6.78		308.30 318.40	10.30	11.68	46.02 49.13	999.00	-2.50	999.00	-2.39 -2.52	0.00
20 4 20 4	2 12	323.80 314.90	12.89 13.74	7.14 6.98	47.25	999.00 999.00	315.40 311.80	12.82 13.75	6.77		318.80	10.66 11.21	11.37 12.55	50.27	999.00 999.00	-2.90 -3.11	999.00	-2.52 -2.67	0.00
20 4	2 13	327.40	11.97	10.43	47.23	999.00	318.00	11.94	10.10		324.20	9.74	15.34	52.28	999.00	-3.11	999.00	-2.53	0.00
20 4	2 15	323.40	10.96	6.11	51.32	999.00	317.20	10.85	6.72		325.50	8.65	12.63	54.64	999.00	-3.41	999.00	-2.93	0.00
20 4	2 16	338.30	9.00	10.94	52.42	999.00	332.90	8.69	11.47		347.80	7.74	14.08	55.82	999.00	-3.50	999.00	-1.60	0.00
20 4	2 17	24.88	4.55	18.91	53.25	999.00	21.48	4.58	15.41	53.99	24.31	4.90	14.19	56.74	999.00	-3.41	999.00	-0.49	0.00
20 4	2 18	13.15	4.39	17.58	53.87	999.00	2.66	4.54	14.57	54.79	6.44	4.48	11.90	57.55	999.00	-3.60	999.00	-0.57	0.00
20 4		309.90	3.18	25.31		999.00		3.14	29.44		284.20	2.51	32.74	58.02			999.00	-1.53	0.00
		124.70	2.61	85.30		999.00			77.30		116.80	2.84			999.00		999.00	0.88	0.00
		205.60	2.05	39.38		999.00		2.82	23.27		110.70	3.62			999.00		999.00	1.59	0.00
		130.10	4.52	6.51		999.00		6.05	3.18		138.20	3.13	7.63		999.00		999.00	1.86	0.00
20 4		68.41	3.71	8.57		999.00	67.68	4.16	4.79		96.10	2.80	9.03		999.00		999.00	0.95	0.00
20 4	2 24	6.71	1.20	9.69		999.00	43.68	0.95	6.84		216.30	2.63	17.34		999.00		999.00	5.43	0.00
		279.90	4.36	5.72		999.00		4.55	4.59		233.70	4.13	4.78	46.75	999.00		999.00	6.51	0.00
20 4	3 2	261.80	9.40	1.65		999.00		10.01	1.46		234.20	5.99	5.21	45.87	999.00	7.07	999.00	6.46	0.00
		294.90	12.69	5.98		999.00		13.01	5.75		260.90	5.05	3.89		999.00		999.00	6.96	0.00
20 4	3 4	321.20	17.74	4.89	52.86	999.00	310.60	16.71	4.13	52.38	288.30	6.15	8.26	44.90	999.00	7.82	999.00	6.84	0.00

00 4 0 5 10	00 10 00	10 00	45 00	000 00	15 01	0.15		45 10	00.00	4 00	10.00	45 06	00000	0 61	00000	0 00	0 00
20 4 3 5 18				999.00	15.31	8.17	11.61	47.19	30.83	4.80	18.00		999.00		999.00	0.28	0.00
20 4 3 6 145		16.58	45.58	999.00	160.20	1.23	54.33	45.09	294.10	3.10	5.39	43.79	999.00	2.58	999.00	1.69	0.00
20 4 3 7 101			45.10	999.00	59.59	2.74	40.26	44.57	43.79	1.20	38.69	42.49	999.00	2.86	999.00	1.40	0.00
	.40 6.25	3.73		999.00	91.70	5.94	3.81	45.73	255.90	1.24	19.02	42.31	999.00	4.13	999.00	3.36	0.00
20 4 3 9 58		19.34	46.18	999.00	59.50	2.18	19.84	46.63	254.80	2.07	13.31	44.72	999.00	1.48	999.00	1.46	0.00
	.37 3.81	17.16	46.62	999.00	22.36	3.56	23.29	47.69	21.12	3.98	19.40	48.90	999.00	-3.39	999.00	-0.35	0.00
20 4 3 11 19		18.98	46.45	999.00	16.25	4.98	21.68	47.42	29.71	4.86	27.14	50.10	999.00	-3.73	999.00	-0.71	0.00
	.04 6.03		46.20	999.00	37.06	5.77	15.78	47.02	34.58	6.26	20.21	49.60	999.00	-3.27	999.00	-0.54	0.00
	.40 4.81	15.30	45.34	999.00	49.64	4.54	12.05	46.37	49.17	5.34	15.55	48.61	999.00	-3.25	999.00	-0.66	0.00
20 4 3 14 52				999.00	55.37	4.96	11.57	47.94	62.38	5.70	20.19	49.74	999.00	-2.97	999.00	-1.05	0.00
20 4 3 15 61		21.38	48.93	999.00	52.36	3.45	16.17	50.15	55.84	5.27	15.72	52.36	999.00	-3.45	999.00	-0.88	0.00
20 4 3 16 71		8.05	50.03	999.00	75.40	8.24	9.04		106.70	6.49	14.77	52.77	999.00	-1.66	999.00	-0.79	0.00
20 4 3 17 123		8.06	51.13	999.00	123.00	6.66	9.20		140.20	5.61	19.54	52.50	999.00	-3.20	999.00	-2.00	0.00
20 4 3 18 110	.80 8.26	6.98	51.17	999.00	104.60	7.92	8.20	51.85	105.60	6.42	14.81	53.78	999.00	-2.75	999.00	-1.68	0.00
20 4 3 19 104	.30 12.79	2.78	50.65	999.00	97.20	11.84	6.47	51.35	104.80	7.11	15.66	53.23	999.00	-2.32	999.00	-1.35	0.00
20 4 3 20 96	.70 14.41	2.67	50.68	999.00	95.40	13.47	3.62	50.82	107.50	6.07	11.81	51.68	999.00	-0.38	999.00	-0.29	0.00
20 4 3 21 110	.20 15.31	2.79	49.28	999.00	106.90	13.83	4.68	49.17	115.30	6.59	13.29	49.49	999.00	-0.45	999.00	-0.56	0.00
20 4 3 22 104	.10 17.99	2.61	47.19	999.00	97.00	16.14	3.64	47.52	102.00	8.46	11.94	48.20	999.00	-1.10	999.00	-0.77	0.00
20 4 3 23 109		3.99			102.80	10.52	5.55		109.40	4.95	13.36	48.20	999.00	-0.93	999.00	-0.64	0.00
20 4 3 24 120	.60 5.93	7.62	45.76	999.00	119.30	5.44	7.21	46.05	190.90	2.19	26.02	46.35	999.00	-0.11	999.00	0.49	0.00
20 4 4 1 133	.50 4.63	5.17	45.69	999.00	135.90	4.72	3.78	45.89	208.20	2.04	4.47	45.20	999.00	0.66	999.00	0.60	0.00
20 4 4 2 92	.90 6.50	5.51	45.50	999.00	88.10	6.14	5.53	45.78	67.26	2.39	13.66	44.47	999.00	0.63	999.00	0.18	0.00
20 4 4 3 67	.56 3.93		44.76	999.00	60.95	4.65	2.58	45.05	65.51	4.06	4.74	45.20	999.00	-0.50	999.00	-0.62	0.00
	.80 7.28		43.42	999.00	68.95	7.12	3.76	43.59	75.80	5.53	6.53	44.14	999.00	-1.04	999.00	-0.71	0.00
20 4 4 5 87			42.30	999.00	77.10	4.21	6.83	42.68	76.20	3.29	10.82	43.33	999.00	-1.07	999.00	-0.78	0.00
20 4 4 6 106		6.64	41.85	999.00	93.10	4.43	4.31	42.13	88.00	2.89	15.01	42.91	999.00	-1.00	999.00	-0.61	0.00
20 4 4 7 139		2.77	41.85	999.00	132.50	4.63	3.13		192.60	2.42	13.69	42.18	999.00	0.71	999.00	1.18	0.00
20 4 4 8 161			42.37		146.10	6.28	2.84		181.30	2.36	18.00	41.40	999.00	0.68	999.00	0.99	0.00
20 4 4 9 126				999.00		4.04	13.80		157.50	3.11	26.35	44.13	999.00	-2.57	999.00	-1.30	0.00
20 4 4 10 170				999.00		3.41	19.95		169.20	2.62	43.93	46.93	999.00	-2.64	999.00	-0.79	0.00
20 4 4 11 147		12.59			118.30	4.80	11.22		108.50	3.77	16.35	47.34	999.00	-1.64	999.00	-1.26	0.00
20 4 4 12 181		9.14	45.57	999.00		3.50	12.86		139.90	2.60	27.12	46.95	999.00	-1.78	999.00	-0.95	0.00
20 4 4 13 195				999.00		6.24	9.70		194.00	4.90	19.28	50.16	999.00	-3.35	999.00	-1.48	0.00
20 4 4 14 141		15.77	51.20		119.60	5.59	13.20		110.60	4.98	25.31	54.71	999.00	-3.33	999.00	-1.43	0.00
20 4 4 15 125		7.00		999.00		6.81	7.29	53.89	88.40	7.21	8.98	55.41		-1.12	999.00	-0.05	0.00
20 4 4 16 120		2.63	55.75	999.00		8.89	2.40	55.76	89.00	7.00	11.35	53.71	999.00	3.10	999.00	3.86	0.00
20 4 4 17 122		3.15	57.04		101.30	11.09	3.56	56.24	96.40	7.07	10.74	51.99	999.00	6.01	999.00	3.56	0.00
20 4 4 18 114			56.17	999.00	97.80	12.94	2.34	53.06	94.00	9.01	7.82	50.68	999.00	4.63	999.00	2.41	0.00
20 4 4 19 114		2.48		999.00	90.90	9.48	4.15	51.85	72.90	5.39	14.46	50.49	999.00	4.19	999.00	0.72	0.00
	.08 9.92	19.11	49.57	999.00	353.90	10.37	15.47	48.66	353.60	8.94	13.38	48.06	999.00	-1.38	999.00	-1.04	0.00
	.05 8.45	8.69	49.65	999.00	41.36	7.08	11.32	48.41	73.10	6.25	9.65	47.56	999.00	4.19	999.00	3.60	0.00
20 4 4 22 326		5.01	50.49	999.00	321.20	6.75	7.58	49.20	317.90	3.09	10.55	47.73	999.00	1.62	999.00	0.89	0.00
20 4 4 23 333				999.00		15.85	4.57		324.60	9.48	9.24		999.00	-0.68	999.00	-0.73	0.00
20 4 4 24 325				999.00		16.15	5.59	47.33		11.39			999.00		999.00	-1.13	0.00
20 4 5 1 333				999.00		14.49	5.06		323.90	9.79	9.66		999.00		999.00	-1.15	0.00
20 4 5 2 345				999.00		12.19	3.43		337.00	7.97	8.62		999.00		999.00	-1.02	0.00
20 4 5 3 353				999.00		13.09	5.56		344.90	8.47	9.36		999.00		999.00	-1.05	0.00
	.02 13.94			999.00		12.90	7.36	45.37	2.26	9.24	8.75		999.00		999.00	-1.21	0.00
20 4 5 5 55				999.00	51.61	11.35	6.60	44.40	58.71	10.18	11.64		999.00		999.00	-1.34	0.00
20 4 5 6 60				999.00	54.54	12.57	6.16	41.08	65.24	10.82	11.09		999.00		999.00	-1.20	0.00
20 4 5 7 56				999.00	50.25	10.26	7.14		57.98	10.09	11.55		999.00		999.00	-1.04	0.00
20 4 5 8 58	.34 12.15	6.37	39.56	999.00	52.44	10.66	6.21	40.24	62.72	9.09	11.50	41.29	999.00	-1.69	999.00	-0.70	0.00

00 4 5 0	40.00	10.00	7.66	20 71	000 00	42 57	10 10	0 01	40 47	40 21	11 10	10.66	41 40	000 00	1 0 5	000 00	0.72	0 00
20 4 5 9	49.82	12.89	7.66		999.00 999.00	43.57	10.40	8.91	40.47	48.31	11.12	10.66		999.00		999.00	-0.73	0.00
20 4 5 10 20 4 5 11	58.14	11.43	7.66	39.71 39.36		52.67	10.31	7.43 8.61	40.47 40.06	60.29 56.02	9.25 10.11	12.53 11.08	41.49	999.00 999.00	-2.06 -2.21	999.00 999.00	-1.05	0.00
	57.63	11.47	8.60			50.40	10.18						41.48				-1.27	
20 4 5 12 20 4 5 13	46.61 49.76	12.09 9.76	8.27 11.05	39.54 39.58	999.00 999.00	40.31 44.70	10.30 8.41	8.67 11.29	40.24 40.26	43.72 42.34	10.41 7.80	14.11 15.52	41.76 41.93	999.00 999.00	-2.19 -2.61	999.00 999.00	-1.48	0.00
20 4 5 13 20 4 5 14	61.72	9.76	8.67	39.30	999.00	55.76	9.42	7.17	39.91	64.16	9.02	14.46	41.51	999.00	-2.20	999.00	-2.00 -1.63	0.00
20 4 5 15	66.51	8.16	10.24	39.41	999.00	59.90	8.08	10.33	40.17	68.22	7.50	17.06	41.97	999.00	-2.53	999.00	-2.21	0.00
20 4 5 16	83.60	7.81	11.49	40.14	999.00	76.50	8.29	11.82	40.17	76.10	7.56	19.93	43.32	999.00	-3.02	999.00	-3.76	0.00
	104.40	7.76	9.56	40.14	999.00	100.20	7.68	12.73		112.90	6.16	18.71	43.53	999.00	-3.35	999.00	-3.97	0.00
	111.70	7.65	11.93	40.51	999.00	100.20	7.29	12.79		113.00	5.90	21.79	43.54	999.00	-3.14		-3.74	0.00
20 4 5 19	115.20	7.40	9.19	41.28	999.00	113.30	7.30	10.01		130.60	5.19	17.00	44.12	999.00	-2.61	999.00	-1.70	0.00
20 4 5 20		6.95	8.39	41.28	999.00		6.36	7.67		132.00	4.06	15.49	44.12	999.00	-1.61	999.00	-0.80	0.00
	129.00	6.40	10.47	42.79	999.00		5.53	15.03		169.70	2.65	25.51	43.74	999.00	-0.36	999.00	-0.18	0.00
	136.70	6.68	3.96	42.60	999.00	137.90	6.97	3.38		170.00	2.98	10.79	42.39	999.00	0.03	999.00	0.06	0.00
20 4 5 23	115.60	6.53	5.49	41.97	999.00	114.30	5.81	5.55		145.60	2.67	12.89	42.15	999.00	-0.27	999.00	-0.14	0.00
	102.50	6.52	9.40	41.95	999.00	98.50	6.38	9.69		113.30	3.03	19.04	42.51	999.00	-0.80	999.00	-0.53	0.00
20 4 6 1	96.80	6.14	7.34	41.43	999.00	89.50	5.87	7.67		232.50	0.89	51.96	41.76	999.00	0.66	999.00	1.26	0.00
20 4 6 2	66.33	4.52	6.55	41.43	999.00	59.27	4.53	5.70	41.73	75.00	2.91	10.16	41.76	999.00	-0.70	999.00	-0.66	0.00
20 4 6 3	76.40	3.50	5.90	40.52	999.00	68.96	3.66	5.70	40.77	84.60	2.30	8.98	41.36	999.00	-0.77	999.00	-0.48	0.00
20 4 6 4	71.20	4.33	4.38	40.30	999.00	61.32	4.46	3.69	40.47	57.92	0.93	63.94	40.24	999.00	0.57	999.00	0.77	0.00
20 4 6 5	36.19	6.29	5.70	40.30	999.00	28.45	5.35	7.36	40.52	346.10	2.05	38.77	39.47	999.00	0.55	999.00	0.32	0.00
20 4 6 6	37.25	4.49	8.96	39.94	999.00	29.64	4.04	6.84	40.21	305.60	0.81	61.18	39.13	999.00	1.57	999.00	1.15	0.00
20 4 6 7	41.46	10.02	7.02	40.00	999.00	33.84	8.74	6.95	40.29	36.57	7.45	8.77	39.78	999.00	-0.85	999.00	-1.00	0.00
20 4 6 8	51.25	6.10	9.87	40.09	999.00	43.76	5.41	9.55	40.47	51.38	4.84	13.72	41.06	999.00	-1.14	999.00	-0.42	0.00
20 4 6 9	76.40	7.83	5.41	40.09	999.00	66.72	7.69	6.91	40.67	78.00	6.84	13.40	42.04	999.00	-2.24	999.00	-1.01	0.00
20 4 6 10	79.10	7.35	7.67	44.53	999.00	70.70	7.34	9.34	43.79	0.00	6.72	14.00	42.30	999.00	2.23	999.00	-1.69	0.00
20 4 6 11	99.70	5.50	12.75	41.25	999.00	88.20	5.56	15.56	42.21	82.40	4.84	23.48	44.18	999.00	-2.80	999.00	-1.70	0.00
20 4 6 12	88.00	5.13	14.50	42.41	999.00	76.20	5.39	14.65	43.33	76.80	4.91	28.64	45.04	999.00	-2.70	999.00	-1.01	0.00
20 4 6 13	79.90	7.10	9.62	43.09	999.00	68.53	7.23	10.38	44.03	58.78	7.56	16.86	45.96	999.00	-3.41	999.00	-1.66	0.00
20 4 6 14	84.40	6.73	10.39	44.15	999.00	74.40	7.30	9.46	44.95	75.30	7.09	19.04	47.54	999.00	-2.84	999.00	-1.55	0.00
20 4 6 15	88.10	7.95	5.89	44.97	999.00	77.50	8.14	5.75	45.75	92.00	7.85	11.05	47.62	999.00	-2.09	999.00	-1.22	0.00
20 4 6 16	77.60	6.09	10.16	46.46	999.00	58.68	5.81	7.95	47.24	54.87	6.93	9.74	49.02	999.00	-2.95	999.00	-1.14	0.00
20 4 6 17	77.40	7.34	7.41	46.43	999.00	65.05	7.30	7.65	46.67	59.01	8.29	11.66	48.25	999.00	-2.52	999.00	-1.55	0.00
20 4 6 18	90.00	11.79	4.05	46.42	999.00	80.50	10.05	5.75	46.74	77.10	8.68	8.54	48.39	999.00	-1.32	999.00	-1.23	0.00
20 4 6 19	90.70	9.14	6.58	46.42	999.00	79.10	7.54	8.94	46.74	78.50	6.08	10.19	48.39	999.00	-0.93	999.00	-0.93	0.00
	112.30	15.44	4.25	46.31	999.00	104.20	13.19	6.08	46.03	108.30	7.23	12.92	46.74	999.00	-0.68	999.00	-0.87	0.00
	102.60 118.50	10.60 15.82	5.53	45.07 45.07	999.00 999.00	90.70 110.30	9.07	6.26 5.82	45.39	97.30 113.90	5.74 7.43	13.16 13.63	46.37 46.37	999.00 999.00	-1.31 -0.75	999.00 999.00	-1.03 -0.01	0.00
	117.20	16.50	4.03 3.12	46.34		10.30	13.44 12.72	5.15		108.50	6.54	11.61	46.49	999.00	0.74	999.00	-0.81 -0.46	0.00
	117.20	11.67	3.34	47.63	999.00		9.01	5.26		100.30	4.91	11.70	47.00	999.00	-0.01	999.00	-0.40	0.00
	125.80	14.67	2.52	48.59	999.00		11.24	2.94		131.50	4.67	10.67	46.72	999.00	2.00	999.00	0.02	0.00
	143.10	12.82	4.22	50.15	999.00		10.31	4.95		161.90	3.15	16.92	48.10	999.00	1.83	999.00	0.36	0.00
20 4 7 3		9.80	2.12		999.00		7.12	3.75		162.60	2.22	21.28		999.00		999.00	0.29	0.00
20 4 7 4		10.60			999.00		7.99	7.88		165.30	2.59			999.00		999.00	0.42	0.00
20 4 7 5		10.57	3.07		999.00		8.46	5.61		195.60	3.49	13.93		999.00		999.00	-0.66	0.04
20 4 7 6		5.78	32.23		999.00		5.94	53.66		65.34	3.69	78.20		999.00		999.00	3.97	0.08
20 4 7 7		6.48	72.30		999.00		5.36	75.10	49.58	59.20	3.42	72.90		999.00		999.00	1.42	0.06
20 4 7 8		10.23	8.23		999.00		9.23	9.51		117.30	4.52	16.57		999.00		999.00	2.39	0.00
20 4 7 9		13.85	2.62		999.00		10.46	7.44		109.00	4.42	14.82		999.00		999.00	1.72	0.05
20 4 7 10		11.14	5.81		999.00		9.95	6.94		139.40	4.90	12.33		999.00		999.00	1.76	0.01
20 4 7 11	208.00	8.29	7.23		999.00		6.90	7.74		198.80	3.86	17.35		999.00	-1.18	999.00	-1.52	0.00
20 4 7 12	221.30	5.84	7.88	54.53	999.00	214.20	5.01	10.32	54.75	221.60	3.62	22.39	56.46	999.00	-1.75	999.00	-1.97	0.00

00 4 5 10 01	10.00	4 00		000 00	011 60	6 0 5	5 00	E 6 4 E	000 00	0.60	0.5.00	10	00000	0 50	00000	0 54	0 00
20 4 7 13 21		4.28		999.00		6.85	5.23		200.20	2.69	25.09		999.00		999.00	-0.74	0.00
20 4 7 14 22		10.24	59.70	999.00	215.50	12.86	10.86		223.90	10.11	15.71	62.98	999.00	-3.99	999.00	-0.17	0.00
20 4 7 15 23		9.01	63.58	999.00	232.60	15.94	9.21		239.60	10.79	12.69	64.97	999.00	-0.10	999.00	-0.58	0.00
20 4 7 16 24		8.43	65.60	999.00	237.30	18.13	8.32		242.60	13.39	11.35	67.39	999.00	-2.15	999.00	-1.58	0.00
	46.20 19.23	4.96	67.86	999.00	241.60	18.70	4.76		248.10	13.39	9.33	70.07	999.00	-2.18	999.00	-1.28	0.00
20 4 7 18 25		6.81	69.60	999.00	250.70	17.66	6.70		253.60	11.75	10.83	71.45	999.00	-1.50	999.00	-0.70	0.00
20 4 7 19 23		5.75	70.26	999.00	230.00	17.75	5.88		236.00	12.75	9.18	71.05	999.00	-0.74	999.00	-0.46	0.00
	51.10 16.18	3.87	70.85	999.00	245.00	14.52	3.80		249.40	7.41	6.80	70.53	999.00	1.05	999.00	1.37	0.00
20 4 7 21 23		2.59	70.07	999.00	226.30	12.54	2.75		204.50	3.84	8.72	68.47	999.00	1.91	999.00	1.68	0.00
20 4 7 22 22		5.63	70.07	999.00	220.00	11.71	6.24		195.20	4.87	5.12	68.47	999.00	2.63	999.00	2.15	0.01
	20.16 40.51	9.16	69.47	999.00	15.00	37.47	10.59	69.22	23.43	29.28	11.83	67.18	999.00	-1.36	999.00	0.41	0.68
20 4 7 24	3.99 8.28	10.44	54.92	999.00	18.31	7.60	30.16	55.57	75.10	4.14	66.13	53.57	999.00	1.57	999.00	0.42	0.18
	60.80 19.73	10.56	56.19	999.00	246.10	16.67	7.17		237.40	10.36	9.98	54.71	999.00	-0.06	999.00	-0.20	0.12
	59.10 18.01	5.89	56.77	999.00	244.60	14.35	9.92		217.50	4.99	23.83	55.26	999.00	2.46	999.00	1.77	0.01
20 4 8 3 28	80.20 12.03	24.03	58.97	999.00	280.30	9.78	36.30	58.70	310.20	5.30	55.37	56.26	999.00	2.58	999.00	0.64	0.00
20 4 8 4 31	16.10 10.70	6.96	58.22	999.00	314.90	9.07	6.49	58.10	346.60	4.48	26.13	55.85	999.00	2.19	999.00	2.21	0.00
	20.30 14.33	2.84	57.61	999.00	309.20	12.95	3.74		284.00	5.04	7.04	55.38	999.00	2.13	999.00	0.99	0.00
20 4 8 6 31	19.90 21.34	2.08	57.61	999.00	309.30	19.02	3.45		313.40	9.51	11.72	55.38	999.00	-0.05	999.00	0.23	0.00
20 4 8 7	2.33 19.33	2.60	53.92	999.00	353.70	18.18	3.02		348.30	10.08	7.07	53.77	999.00	0.46	999.00	0.44	0.00
20 4 8 8	7.73 21.02	1.33	51.40	999.00	357.80	18.45	2.19		351.30	7.87	8.33	51.04	999.00	0.03	999.00	-0.65	0.00
20 4 8 9	0.51 14.39	3.41	51.40	999.00	353.90	13.27	4.20		356.80	8.67	7.52	51.04	999.00	-1.46	999.00	-0.81	0.00
20 4 8 10 34	40.30 7.36	7.45	49.32	999.00	331.80	7.23	7.56		330.40	5.88	11.58	51.39	999.00	-2.67	999.00	-2.12	0.00
	01.10 6.07	13.06	49.95	999.00	294.40	5.99	12.48		300.40	5.20	21.84	52.84	999.00	-2.32	999.00	-3.28	0.00
	44.30 6.53	10.28	52.91	999.00	234.90	6.64	9.85		234.50	6.14	15.17	55.69	999.00	-3.31	999.00	999.00	0.00
20 4 8 13 24		6.99	55.97	999.00	233.50	7.37	7.31		237.50	6.68	13.07	59.35	999.00	-3.55	999.00	-3.22	0.00
	41.10 7.80	10.47	59.52	999.00	231.40	7.63	11.24	60.38	237.70	7.48	11.41	63.12	999.00	-3.85	999.00	-3.22	0.00
	52.70 6.95	11.09	61.85	999.00	247.90	6.92	11.68	62.80	250.00	5.75	19.25	65.54	999.00	-3.50	999.00	-1.67	0.00
	44.80 8.08	8.65	63.86	999.00	235.50	7.81	11.90		236.50	5.68	18.65	67.41	999.00	-3.84	999.00	-2.01	0.00
	77.30 4.77	14.60	63.72	999.00	80.10	7.16	7.91	64.10	89.80	6.60	14.54	65.24	999.00	-0.26	999.00	-0.52	0.00
	36.42 2.85	24.62	65.03	999.00	67.60	3.07	26.86		108.30	4.65	13.89	65.50	999.00	-0.37	999.00	0.83	0.00
	32.80 5.34	1.62	65.96	999.00	123.80	6.72	2.47		126.40	5.48	11.94	66.05	999.00	-0.25	999.00	0.58	0.00
	99.00 999.00	999.00	65.41	999.00	999.00	999.00	999.00		999.00	999.00	999.00	65.42	999.00	999.00	999.00	1.86	0.00
20 4 8 21 14		2.30	64.75	999.00		14.33	2.21		138.90	4.38	9.65	61.26	999.00	3.73	999.00	3.52	0.00
20 4 8 22 1		4.53	65.63		157.50	10.83	2.46		172.40	2.87	13.79	62.00	999.00	3.98	999.00	3.46	0.00
20 4 8 23 21		3.43	65.73	999.00	206.80	13.68	3.66		196.30	3.37	9.43	60.78	999.00	5.29	999.00	4.38	0.03
	49.00 32.71	5.06	54.95	999.00	339.60	28.86	6.19		346.90	18.31	9.75	54.34	999.00	-0.60	999.00	0.77	0.00
20 4 9 1	1.84 25.47	2.56	54.95	999.00	352.50	22.59	4.86		357.50	14.24	7.04	54.34	999.00	-0.48	999.00	0.02	0.00
20 4 9 2	5.82 15.67	2.80	49.72	999.00	355.50	13.03	5.11		346.50	6.74	9.32	49.64	999.00	0.35	999.00	0.57	0.00
	82.80 6.56	16.04	49.15	999.00	269.50	6.07	17.81		257.60	4.13	15.41	48.97		-0.28	999.00	0.05	0.00
	87.40 17.36	8.14	49.48	999.00	278.60	15.49	8.90		277.10	10.38	11.17	50.57	999.00	-1.14	999.00	-0.28	0.00
	03.60 26.47	8.04	50.14	999.00	296.50	25.18	7.81		296.60	16.91	12.24	51.35	999.00	-1.25	999.00	-0.38	0.01
	04.60 24.19	5.48	50.14	999.00	297.20	22.58	5.68	50.59	299.40	14.79	11.26	51.35	999.00	-1.10	999.00	-0.19	0.00
	12.19 26.18	6.46		999.00	4.76	25.51	7.51	45.29	11.44	19.98	10.69		999.00		999.00	-1.57	0.00
	3.14 23.21			999.00		22.59	7.22		1.32		10.56			-1.77		-0.91	0.01
20 4 9 9 33		6.01		999.00		12.52	6.18		336.90		11.29		999.00		999.00	0.98	0.00
20 4 9 10 26				999.00		10.54	14.25		253.10	8.71	16.45		999.00		999.00	-1.34	0.01
20 4 9 11 27		8.44		999.00		17.69	9.16	41.85		13.80	13.73		999.00		999.00	-2.47	0.00
20 4 9 12 28		7.74		999.00		20.24	8.08		278.70	15.83	11.26		999.00		999.00	-2.38	0.00
20 4 9 13 28		10.06		999.00		24.65	9.63		279.30	17.73	11.24		999.00		999.00	-1.62	0.00
20 4 9 14 28		7.76		999.00		27.63	8.33		277.90	20.25	11.57		999.00		999.00	-1.90	0.00
20 4 9 15 28		8.00		999.00		30.39		45.53		22.74	12.21		999.00		999.00	-1.96	0.00
20 4 9 16 29	90.00 34.36	7.82	44.21	999.00	282.30	32.83	8./8	44.85	∠86.IU	24.90	10.01	46.53	999.00	-2.35	999.00	-1.69	0.00

00 4 0 1 7 001 00	04.00	66 40 40	000 00 000 00	00.40		44 00 000 00	00 55	10 10	45 55 000 00	0.45000.00	1 50	0.00
20 4 9 17 281.20			999.00 272.70	32.40	7.90	44.08 277.30	23.75	10.19	45.77 999.00		-1.72	0.00
20 4 9 18 298.70		69 42.46	999.00 290.80	34.48	7.34	43.08 292.60	24.36	9.51	44.73 999.00		-1.45	0.00
20 4 9 19 298.00		30 40.34	999.00 290.20	37.25	7.66	40.97 293.10	27.02	10.30	42.54 999.00		-1.37	0.00
20 4 9 20 296.30		74 38.77	999.00 287.30	30.39	7.13	39.29 289.70	21.45	9.79	40.47 999.00		-1.03	0.00
20 4 9 21 302.00		82 38.77	999.00 293.50	31.32	7.99	39.29 293.80	21.42	11.98	40.47 999.00		-0.59	0.00
20 4 9 22 309.50		64 38.48	999.00 300.50	28.54	8.45	38.86 303.20	18.87	13.37	39.43 999.00		-0.56	0.00
20 4 9 23 291.30		47 38.48	999.00 282.00	20.34	6.42	38.86 279.30	13.66	10.70	39.43 999.00		-0.57	0.00
20 4 9 24 295.80		58 37.34	999.00 287.10	21.95	6.16	37.70 286.50	13.96	9.43	38.01 999.00		-0.34	0.00
20 4 10 1 295.20		34 36.72	999.00 286.30	21.58	5.88	37.11 286.60	14.29	8.40	37.56 999.00		-0.53	0.00
20 4 10 2 298.10		42 36.22	999.00 289.40	21.38	5.68	36.60 288.10	15.10	9.95	37.11 999.00		-0.56	0.00
20 4 10 3 295.00		90 35.89	999.00 285.20	21.07	5.93	36.27 282.90	13.86	10.19	36.86 999.00		-0.56	0.00
20 4 10 4 287.90	23.94 4.	89 34.67	999.00 278.40	21.82	5.26	35.00 275.10	14.11	9.47	35.50 999.00		-0.51	0.00
20 4 10 5 310.20	28.50 10.		999.00 301.00	26.85	10.64	35.24 303.20	17.80	14.93	35.95 999.00		-0.79	0.00
20 4 10 6 327.30	34.00 4.	80 34.79	999.00 318.60	32.54	5.70	35.16 322.90	23.05	9.71	36.15 999.00	-1.33 999.00	-0.82	0.00
20 4 10 7 320.20	31.98 7.	35 34.63	999.00 312.30	30.05	8.19	35.09 318.10	20.52	11.81	35.95 999.00	-1.36 999.00	-0.89	0.00
20 4 10 8 319.50	32.28 5.	72 34.32	999.00 310.40	30.83	6.00	34.81 314.30	21.34	11.49	35.77 999.00	-1.48 999.00	-1.01	0.00
20 4 10 9 315.40	30.05 7.	73 34.04	999.00 307.10	28.80	7.81	34.58 312.20	20.50	13.21	35.82 999.00	-2.08 999.00	-1.66	0.00
20 4 10 10 320.20	28.23 6.	57 34.41	999.00 312.70	27.01	7.12	35.09 318.80	20.23	11.18	36.67 999.00		-1.94	0.00
20 4 10 11 317.00	27.56 7.	02 35.37	999.00 308.40	26.59	7.16	36.10 313.00	19.47	11.96	38.07 999.00	-2.78 999.00	-2.44	0.00
20 4 10 12 318.30	27.54 7.	70 36.69	999.00 309.30	26.38	7.88	37.48 311.80	19.62	13.78	39.65 999.00	-2.92 999.00	-2.50	0.00
20 4 10 13 313.00	22.92 7.	67 37.93	999.00 305.10	22.38	7.68	38.68 312.20	16.62	12.88	40.90 999.00	-2.92 999.00	-2.48	0.00
20 4 10 14 316.60	19.91 12.	81 39.19	999.00 309.60	19.20	11.73	40.05 312.80	15.15	17.38	42.47 999.00	-3.19 999.00	-3.06	0.00
20 4 10 15 311.50	21.46 6.	70 40.21	999.00 303.90	21.10	6.69	40.92 306.70	16.21	13.11	43.01 999.00	-2.75 999.00	-2.42	0.00
20 4 10 16 316.60		55 40.96	999.00 309.80	21.23	8.80	41.71 312.60	16.30	11.25	43.81 999.00		-2.39	0.00
20 4 10 17 301.80	16.22 13.	86 41.83	999.00 294.50	15.71	12.32	42.48 294.70	12.33	13.57	44.25 999.00	-2.05 999.00	-1.78	0.00
20 4 10 18 284.00	25.08 5.	66 42.18	999.00 276.10	24.27	6.02	42.78 279.00	17.49	9.43	44.27 999.00	-2.13 999.00	-1.48	0.00
20 4 10 19 285.10	23.42 5.	33 41.34	999.00 278.00	22.31	6.37	41.90 279.90	16.67	10.17	43.29 999.00		-1.31	0.00
20 4 10 20 288.90	21.04 5.	02 40.35	999.00 281.30	19.98	5.41	40.85 283.90	14.44	10.00	41.92 999.00		-1.05	0.00
20 4 10 21 298.30	20.09 5.	43 39.57	999.00 289.90	19.24	5.42	40.04 291.60	13.72	8.57	40.95 999.00	-1.32 999.00	-0.92	0.00
20 4 10 22 294.60		62 39.03	999.00 286.70	17.81	4.99	39.51 288.30	12.88	8.51	40.40 999.00		-0.91	0.00
20 4 10 23 300.00	19.00 5.	72 39.03	999.00 293.10	18.11	5.71	39.51 294.10	12.39	8.89	40.40 999.00		-0.89	0.00
20 4 10 24 288.10	15.69 2.	59 37.55	999.00 276.50	14.45	3.83	37.80 267.20	7.85	9.13	38.03 999.00	-0.34 999.00	-0.12	0.00
20 4 11 1 288.20		46 37.17		13.20	4.05	37.24 266.10	6.97	8.83	37.39 999.00		-0.16	0.00
20 4 11 2 295.00	13.13 3.	35 37.11	999.00 282.40	12.32	4.49	37.21 265.40	6.46	7.34	36.99 999.00	0.22 999.00	0.28	0.00
20 4 11 3 278.10		65 36.64	999.00 259.00	11.58	5.17	36.65 249.60	7.62	5.64	36.44 999.00		-0.04	0.00
20 4 11 4 272.80		21 36.20	999.00 258.40	12.96	4.69	35.60 253.00	6.87	7.25	35.40 999.00		0.26	0.00
20 4 11 5 262.00		93 36.13	999.00 247.40	12.43	5.24	35.30 239.10	7.29	7.13	34.90 999.00		0.46	0.00
20 4 11 6 264.30		04 36.15	999.00 250.40	13.06	4.09	34.82 243.00	7.00	5.95	34.23 999.00		0.75	0.00
20 4 11 7 257.10		50 36.35	999.00 245.00	13.59	2.64	34.69 225.90	5.09	9.50	33.31 999.00		1.59	0.00
20 4 11 8 244.30		01 37.01	999.00 237.20	13.72	2.41	36.28 226.30	5.82	7.82	33.16 999.00		3.15	0.00
20 4 11 9 236.10		25 36.69	999.00 226.20	8.98	7.43	35.15 231.90	6.41	9.80	35.79 999.00		-1.06	0.00
20 4 11 10 222.20		70 37.33	999.00 213.40	10.18	4.87	37.55 217.30	7.96	13.71	39.60 999.00		-2.06	0.00
20 4 11 11 212.20			999.00 206.40	13.65	10.71	40.51 216.10	9.76	15.68	43.20 999.00		-2.33	0.00
	14.35 10.			13.79		43.41 223.50			46.07 999.00		-2.43	0.00
20 4 11 13 234.20	13.01 14.		999.00 226.30	12.45	13.37	46.15 236.50		16.16	48.89 999.00		-2.41	0.00
20 4 11 14 254.70	15.69 10.		999.00 248.20	15.15	10.73	48.58 252.80	11.96	15.14	51.33 999.00		-2.41	0.00
20 4 11 15 255.00			999.00 248.70	15.39	9.88	50.28 251.40	11.62	15.16	52.75 999.00		-2.24	0.00
20 4 11 16 252.30	14.16 10.		999.00 245.20	13.51	11.27	51.70 250.50	10.64	13.01	53.86 999.00		-2.00	0.00
20 4 11 17 242.30			999.00 235.50	19.19	9.03	52.64 242.20	14.59	12.66	54.70 999.00		-2.18	0.00
20 4 11 18 225.70			999.00 218.40	14.49	8.72	53.17 222.70	9.67	13.37	55.11 999.00		-1.52	0.00
20 4 11 19 220.40			999.00 214.50	12.94	7.58	54.30 222.50	8.88	11.82	56.18 999.00		-1.57	0.00
20 4 11 20 190.50	14.41 2.	20 53.52	999.00 183.40	12.81	3.34	53.99 186.70	5.72	12.54	54.80 999.00	-0.40 999.00	-0.35	0.00

20	4 11 21	160 00	17.68	2.59	52.88	999.00	150 30	14.81	3.28	52 04	156.00	5.42	11.40	52 21	999.00	0.75	999.00	0.42	0.00
	4 11 21		19.28	2.90	51.99	999.00	160.30	16.58	3.62		150.00	6.69	12.21	51.50	999.00	0.73		0.02	0.00
	4 11 23		20.35	3.49	50.92		166.60	16.66	4.28		167.00	6.67	14.26	50.40	999.00	0.41	999.00	0.12	0.00
	4 11 24		20.33	3.33	50.19	999.00	166.90	17.55	4.15		169.90	7.57	13.14	50.37		-0.27	999.00	-0.33	0.00
20			19.44	2.70	49.98	999.00		16.59	3.04		177.70	6.77	11.58	49.92	999.00	0.38	999.00	0.27	0.00
	4 12 2		18.40	3.25	50.25	999.00	191.10	15.75	4.08		200.00	6.64	12.14	49.96	999.00	0.31	999.00	0.15	0.00
20	4 12 2		18.25	3.84	50.60	999.00	206.40	15.79	4.81		211.80	7.10	15.79	50.75	999.00	-0.35	999.00	-0.29	0.00
20	4 12 4		20.85	5.61	49.93	999.00	216.40	18.46	5.67		219.20	8.56	12.66	50.75	999.00	-0.41	999.00	-0.29	0.00
20			13.47	3.81	48.10	999.00	233.80	11.67	4.37		233.60	7.23	10.16	48.86	999.00	-0.84	999.00	-0.50	0.00
20	4 12 6	203.40	8.72	4.63	46.34	999.00	189.60	8.43	5.50		171.50	3.58	12.93	46.55	999.00	-0.04	999.00	-0.11	0.00
20	4 12 7		13.31	1.86	46.70	999.00	150.90	11.58	3.56		147.60	4.95	12.69	46.12	999.00	0.30	999.00	-0.28	0.00
	4 12 8		12.73	4.38	46.77	999.00	138.90	11.51	5.89		141.10	5.75	13.87	47.53	999.00	-1.20	999.00	-0.91	0.00
	4 12 9		14.28	5.54	46.76	999.00	151.10	11.89	7.08		154.90	5.80	15.94	47.94	999.00	-1.27	999.00	-0.96	0.00
20	4 12 10		14.13	6.26	47.54	999.00	158.50	12.31	6.68		164.40	6.59	15.56	48.72	999.00	-1.39	999.00	-0.99	0.00
	4 12 11		15.08	5.67	49.35	999.00		12.82	6.90		170.10	7.16	14.59	50.84	999.00	-1.59	999.00	-1.16	0.00
	4 12 12		12.86	5.85	52.69	999.00	180.50	12.23	6.33		189.50	8.10	11.99	54.78	999.00	-1.99	999.00	-1.16	0.00
	4 12 13		11.25	8.23	55.02	999.00	180.30	10.32	8.10		181.40	5.71	17.31	57.17	999.00	-2.15	999.00	-1.15	0.00
	4 12 14		17.81	4.86	55.02	999.00		17.45	5.49		199.70	10.76	13.04	57.17	999.00	-1.63	999.00	-0.96	0.00
	4 12 15		15.85	6.26	56.83	999.00		14.70	7.36		191.90	9.22	14.50	58.96	999.00	-1.86	999.00	-1.16	0.00
	4 12 16		22.83	5.44	59.00	999.00		22.00	5.90		181.60	12.90	14.23	61.53	999.00	-3.07	999.00	-1.78	0.00
20			14.58	6.99	59.08	999.00	162.70	13.57	6.76		167.10	7.95	16.47	61.53		-2.13	999.00	-1.29	0.00
	4 12 18		21.09	5.16	60.45	999.00		19.01	5.85		182.20	10.00	14.77	62.29	999.00	-1.45	999.00	-0.88	0.00
	4 12 19		22.27	4.06	61.13	999.00		20.31	5.23		182.80	9.98	15.41	62.36	999.00	-1.07	999.00	-0.56	0.00
20	4 12 20		22.21	4.99	60.88	999.00		20.04	5.70		183.20	9.63	14.13	61.58	999.00	-0.57	999.00	-0.45	0.00
	4 12 21		13.13	3.38	58.26	999.00		11.14	3.67		153.50	4.13	9.17	57.49	999.00	2.42	999.00	0.56	0.01
	4 12 22		21.40	4.09	57.52	999.00	141.90	18.05	4.66		136.40	6.85	12.98	56.23	999.00	1.34	999.00	0.71	0.00
20	4 12 23		16.88	4.22	56.54	999.00	156.80	15.01	5.04		158.40	7.12	14.29	56.58	999.00	-0.24	999.00	0.08	0.02
20			12.99	4.58	56.54	999.00		10.37	5.35		153.10	4.33	13.95	56.58	999.00	0.59	999.00	1.13	0.00
20	4 13 1	140.10	10.61	4.66	53.18	999.00	129.30	8.61	5.31	53.30	93.50	2.91	9.32	52.58	999.00	0.81	999.00	1.07	0.01
20	4 13 2	131.20	10.17	4.01	53.64	999.00	115.90	8.50	4.64	53.64	79.10	4.61	7.08	51.70	999.00	2.47	999.00	2.69	0.00
20	4 13 3	129.60	8.52	4.36	52.22	999.00	112.00	7.56	5.13	52.42	95.10	4.53	10.26	50.56	999.00	1.40	999.00	1.56	0.01
20	4 13 4	165.70	10.40	2.79	52.09	999.00	155.00	9.49	2.68	52.13	118.20	2.51	17.21	50.27	999.00	2.02	999.00	2.09	0.01
20	4 13 5	232.90	11.74	2.97	52.70	999.00	229.70	8.74	3.01	52.76	257.50	3.85	13.56	50.85	999.00	1.59	999.00	1.37	0.00
20	4 13 6	233.50	13.23	3.43	52.32	999.00	228.90	9.68	4.08	52.30	224.00	3.32	13.90	51.45	999.00	0.61	999.00	0.58	0.01
20	4 13 7	242.90	17.05	5.48	52.19	999.00	235.90	14.46	5.79	52.32	232.90	8.09	10.76	52.11	999.00	-0.56	999.00	-0.21	0.00
20	4 13 8	270.90	22.42	5.82	52.57	999.00	264.20	20.07	6.58	53.08	267.90	12.93	10.53	53.48	999.00	-1.10	999.00	-0.11	0.00
20	4 13 9		20.31	6.07	52.70	999.00	256.30	18.70	6.53	53.45	260.90	13.28	10.42	53.99	999.00	-1.49	999.00	-0.33	0.00
	4 13 10		22.35	5.06	53.24	999.00	245.20	21.25	5.05		249.90	15.03	8.79	54.88	999.00	-1.72	999.00	-0.56	0.01
	4 13 11		39.23	5.49	49.90	999.00	279.50	37.40	5.77		282.50	26.73	9.33	52.47	999.00	-3.60	999.00	-0.93	0.00
20	4 13 12		40.29	5.53	41.56	999.00	271.40	37.60	6.58		274.80	25.72	10.23	43.75	999.00	-1.71	999.00	-1.49	0.00
20			38.56	5.36	40.61	999.00	273.10	37.03	5.77		275.60	26.12	10.18	42.55	999.00	-2.24	999.00	-1.61	0.00
	4 13 14		33.57	6.70	40.19	999.00	269.20	31.39	8.33		271.40	23.54	10.96	42.25	999.00	-2.08	999.00	-1.62	0.00
	4 13 15		32.39	8.97		999.00		30.52	9.38		276.30	22.00	11.07		999.00		999.00	-1.70	0.00
	4 13 16		30.91	7.04		999.00		29.15	7.60		272.20		10.33			-2.03		-1.45	0.00
	4 13 17		29.36	7.85		999.00		27.86	8.06		275.60	19.57			999.00		999.00	-1.55	0.00
	4 13 18		25.80	7.35		999.00		24.28	8.33		276.30	17.45	11.25		999.00		999.00	-1.68	0.00
	4 13 19		30.28	6.24		999.00		28.65			283.30		10.55		999.00		999.00	-1.20	0.00
	4 13 20		24.09	4.48		999.00		22.39	5.74		275.50	14.86	10.64		999.00		999.00	-0.89	0.00
	4 13 21		18.85	5.50		999.00		17.03	6.48		270.60	10.53	10.55		999.00		999.00	-0.50	0.00
	4 13 22		13.79	4.91		999.00		12.04			263.80	7.37	10.26		999.00		999.00	-0.68	0.00
	4 13 23		21.20	4.63		999.00		18.69			277.90		9.46		999.00		999.00	-0.18	0.00
20	4 13 24	295.00	17.92	4.61	38.48	999.00	286.60	16.73	4.87	38.77	279.90	9.55	7.70	38.63	999.00	0.13	999.00	0.36	0.00

20 4 14 1 299.10			999.00 292.10	20.06	5.34	37.98 293.20	12.87	9.13	37.93			999.00	-0.05	0.00
20 4 14 2 296.50		.93 36.74	999.00 288.20	17.75	5.07	37.05 283.10	10.27	8.35		999.00		999.00	0.20	0.00
20 4 14 3 296.50		.80 36.05	999.00 285.90	14.30	4.66	36.32 269.20	7.16	9.34		999.00		999.00	0.55	0.00
20 4 14 4 282.70		.41 35.27	999.00 265.50	10.81	5.15	35.30 250.90	6.04	8.18		999.00		999.00	0.09	0.00
20 4 14 5 285.30		.72 34.89	999.00 265.10	8.35	5.80	34.57 218.10	3.39	9.52		999.00	1.38	999.00	0.85	0.00
20 4 14 6 247.10		.21 34.21	999.00 233.50	13.21	2.51	33.88 228.00	5.80	7.80		999.00	1.34	999.00	1.05	0.00
20 4 14 7 257.80		.34 32.92	999.00 242.00	12.13	3.13	32.70 223.20	5.90	8.79		999.00	1.11	999.00	0.55	0.00
20 4 14 8 249.90		.69 32.27	999.00 235.50	12.69	3.99	31.85 227.30	7.09	9.44		999.00	-0.13	999.00	-0.45	0.00
20 4 14 9 248.20	14.39 7	.07 31.99	999.00 239.60	13.56	7.13	32.22 239.10	11.01	9.56		999.00		999.00	-1.52	0.00
20 4 14 10 250.80		.61 34.38	999.00 243.40	15.74	5.38	34.93 245.70	13.09	9.47	36.57		-2.23	999.00	-1.65	0.00
20 4 14 11 257.60		.95 35.31	999.00 251.20	18.55	6.80	35.93 255.90	14.04	10.86		999.00	-2.43	999.00	-1.76	0.00
20 4 14 12 249.40	21.87 8	.92 36.10	999.00 242.70	21.22	8.91	36.80 249.90	16.74	12.82		999.00	-3.24	999.00	-2.13	0.00
20 4 14 13 258.20		.38 37.29	999.00 251.10	24.17	6.99	37.98 257.50	18.46	11.78		999.00	-3.00	999.00	-2.44	0.00
20 4 14 14 266.30	23.95 6	.72 38.18	999.00 259.20	22.91	6.97	38.92 263.90	17.40	11.18		999.00	-3.29	999.00	-2.30	0.00
20 4 14 15 263.80	20.51 13	.55 38.49	999.00 257.70	19.91	15.29	39.24 264.30	15.50	16.36	41.53	999.00	-3.07	999.00	-2.17	0.00
20 4 14 16 268.10	23.91 7	.71 38.71	999.00 260.70	23.13	8.37	39.45 263.60	16.86	12.01	41.68	999.00	-2.98	999.00	-2.05	0.00
20 4 14 17 264.30	25.27 5	.79 38.41	999.00 256.60	24.64	6.73	39.06 260.30	17.64	11.46	40.87	999.00	-2.42	999.00	-1.76	0.00
20 4 14 18 273.60	23.00 11	.30 38.42	999.00 266.70	21.56	11.40	39.04 272.30	15.55	12.30	40.62	999.00	-2.26	999.00	-1.62	0.00
20 4 14 19 260.90	20.10 7	.57 38.44	999.00 253.60	18.92	7.82	39.06 257.50	13.75	12.69	40.67	999.00	-2.23	999.00	-1.39	0.00
20 4 14 20 278.60	16.02 6	.14 37.63	999.00 272.30	15.01	6.61	38.16 272.90	10.33	10.45	39.26	999.00	-1.41	999.00	-0.91	0.00
20 4 14 21 265.30	14.37 6	.44 37.06	999.00 258.60	13.39	7.10	37.51 266.60	9.44	9.32	38.28	999.00	-1.19	999.00	-0.70	0.00
20 4 14 22 297.70	15.55 5	.21 35.57	999.00 289.20	14.20	5.67	35.90 284.30	7.72	8.36	36.06	999.00	0.00	999.00	0.37	0.00
20 4 14 23 304.70		.80 34.47	999.00 297.20	14.29	3.27	34.82 296.00	8.14	8.32	34.64	999.00	-0.34	999.00	0.14	0.00
20 4 14 24 281.00		.03 33.82	999.00 269.10	11.70	4.28	34.08 256.90	6.05	6.57		999.00	-0.11	999.00	-0.15	0.00
20 4 15 1 273.30	11.89 3	.19 33.82	999.00 257.50	9.56	6.37	34.08 247.80	5.52	7.55	33.97	999.00	-0.12	999.00	-0.13	0.00
20 4 15 2 248.40	10.63 2	.16 32.57	999.00 232.40	10.45	1.88	32.54 209.80	4.51	11.25	32.23	999.00	0.87	999.00	0.93	0.00
20 4 15 3 249.10	13.81 3	.68 32.26	999.00 235.20	12.66	2.99	32.31 230.30	6.01	7.49		999.00	0.96	999.00	0.86	0.00
20 4 15 4 231.80	16.28 1	.89 32.12	999.00 217.60	13.88	2.13	31.71 217.80	4.68	12.12		999.00	1.54	999.00	0.69	0.00
20 4 15 5 225.60		.23 32.43	999.00 210.30	16.05	1.81	31.08 203.70	6.08	11.24	30.05	999.00	3.06	999.00	1.70	0.00
20 4 15 6 229.20		.18 32.85	999.00 216.50	14.92	2.15	31.09 218.60	5.24	12.90		999.00	3.02	999.00	1.00	0.00
20 4 15 7 237.30		.43 32.04	999.00 221.10	14.36	2.56	30.33 222.60	4.66	11.85		999.00	2.35	999.00	0.66	0.00
20 4 15 8 238.00		.83 30.61	999.00 222.30	11.93	5.12	29.43 218.10	4.81	12.06	29.30	999.00	0.77	999.00	-0.31	0.00
20 4 15 9 247.30		.25 30.83	999.00 240.20	9.02	6.33	30.46 240.80	6.90	10.89		999.00	-2.19	999.00	-1.37	0.00
20 4 15 10 246.00	3.26 31	.87 32.33	999.00 228.20	3.34	27.66	33.07 219.70	3.12	30.08	35.18	999.00	-2.97	999.00	-1.37	0.00
20 4 15 11 305.50		.97 34.36	999.00 305.00	4.01	38.86	35.21 342.20	3.24	67.91		999.00	-2.88	999.00	-1.82	0.00
20 4 15 12 359.80		.64 34.44	999.00 357.20	7.16	13.67	35.16 15.02	7.09	12.63		999.00	-2.40	999.00	-1.15	0.00
20 4 15 13 245.50		.45 35.46	999.00 244.00	9.21	49.33	36.09 241.30	7.41	49.29		999.00	-2.15	999.00	-1.46	0.00
20 4 15 14 249.60		.69 34.32	999.00 241.40	6.14	19.25	34.96 247.50	5.29	29.70		999.00	-2.28	999.00	-1.35	0.02
20 4 15 15 274.20		.17 33.26	999.00 266.50	14.10	27.01	33.85 266.80	10.62	25.01		999.00	-1.83	999.00	-1.38	0.02
20 4 15 16 321.30		.47 32.01	999.00 318.30	7.58	18.13	32.43 324.80	5.89	22.64		999.00	-1.96	999.00	-1.81	0.01
20 4 15 17 332.20		.05 32.15	999.00 325.90	13.88	7.16	32.53 328.40	10.79	11.19		999.00	-1.76	999.00	-2.10	0.00
20 4 15 18 321.40		.23 32.99	999.00 312.90	10.60	9.55	33.70 315.70	8.96	14.84		999.00	-3.68	999.00	-3.74	0.00
20 4 15 19 318.20			999.00 313.50	14.20	8.13	33.97 321.10	10.97	11.58	35.87			999.00	-2.87	0.00
20 4 15 20 316.70					10.83	33.81 312.50	13.72		34.81		-1.74		-0.75	0.00
20 4 15 21 293.70			999.00 282.40	13.33	4.88	33.93 269.50	7.77	9.66	33.80			999.00	0.95	0.00
20 4 15 22 287.00			999.00 277.50	15.43	7.68	34.04 274.40	8.76	10.71	33.51			999.00	0.04	0.00
20 4 15 23 294.20			999.00 282.90	17.68	3.67	33.18 275.20	10.64	9.73	32.99			999.00	0.12	0.00
20 4 15 24 288.80			999.00 279.70	17.73	6.28	33.18 274.30	10.72	10.20	32.99			999.00	-0.20	0.00
20 4 16 1 296.80			999.00 288.30	19.45	5.09	31.58 284.30	12.40	8.14	31.73			999.00	0.03	0.00
20 4 16 2 289.30			999.00 279.10	17.10	5.64	30.64 273.30	10.27	9.50	30.84			999.00	0.08	0.00
20 4 16 3 288.20			999.00 276.50	17.24	4.47		9.41	9.14	29.81			999.00	0.31	0.00
20 4 16 4 287.10	18.12 1	.93 28.66	999.00 275.10	15.41	4.35	28.68 271.70	7.68	10.13	28.75	999.00	0.04	999.00	0.49	0.00

20	4 16 5	289.10	16.97	2.59	28.35	999.00	274.00	14.95	3.47	28.31	261.30	8.07	7.25	28.11	999.00	0.14	999.00	0.56	0.00
20	4 16 6	283.00	16.22	5.08	28.21	999.00	266.80	14.42	5.83	28.12	260.30	8.00	8.15	27.75	999.00	0.17	999.00	0.27	0.00
20	4 16 7	270.80	15.09	2.98	27.25	999.00	256.10	13.03	5.27	27.17	255.10	7.43	8.32	27.52	999.00	-0.12	999.00	0.01	0.00
20	4 16 8	252.20	11.65	4.98	27.45	999.00	241.10	10.04	6.07	27.48	238.50	7.13	9.00	28.15	999.00	-1.23	999.00	-0.89	0.00
20	4 16 9		11.13	7.54	28.02	999.00	255.20	10.41	7.94	28.47	262.30	8.10	11.32	29.82	999.00	-2.46	999.00	-2.70	0.00
20	4 16 10		11.55	8.70	29.83	999.00	242.20	11.39	6.72		243.10	9.41	11.51	32.56	999.00	-3.09	999.00	-3.11	0.00
20			15.96	7.62	31.86	999.00	237.00	15.51	6.98		240.40	12.49	10.66	34.87	999.00	-3.09	999.00	-1.88	0.00
20	4 16 12		19.38	9.19	31.86	999.00	245.40	18.89	8.78		250.70	14.68	13.71	34.87	999.00	-2.88	999.00	-1.46	0.00
20	4 16 13		21.78	8.57	35.25	999.00	256.60	21.03	8.72	35.97	260.00	16.38	11.43	38.38	999.00	-3.05	999.00	-1.69	0.00
	4 16 14		19.77	13.85	36.43	999.00	265.00	18.89	14.33		266.90	14.64	14.66	39.21	999.00		999.00	-1.89	0.00
20	4 16 15		18.45	8.38	37.69	999.00	270.90	17.68	9.37		271.60	13.67	12.00	40.57	999.00	-2.71	999.00	-1.77	0.00
20	4 16 16	280.50	19.60	12.86	38.28	999.00	273.30	18.85	13.86		276.20	14.65	17.51	40.49	999.00	-2.00	999.00	-2.02	0.00
20	4 16 17	298.90	18.11	8.90	38.49	999.00	293.10	17.45	8.77	40.22	297.50	12.27	13.16	41.16	999.00	-2.96	999.00	-2.22	0.00
20	4 16 18	280.00	17.05	8.88	39.07	999.00	272.30	16.18	9.48	39.77	277.60	13.05	10.92	41.58	999.00	-2.46	999.00	-1.72	0.00
20	4 16 19	293.00	16.48	8.85	39.80	999.00	287.80	15.92	8.99	40.48	292.90	11.70	13.45	42.27	999.00	-2.37	999.00	-1.79	0.00
20	4 16 20	280.90	17.13	4.26	39.94	999.00	273.80	16.18	5.16	40.50	276.40	11.12	9.27	41.67	999.00	-1.10	999.00	-0.50	0.00
20	4 16 21	291.00	17.30	2.73	39.37	999.00	282.40	15.74	2.80	39.63	274.70	7.39	8.14	39.44	999.00	0.47	999.00	0.58	0.00
20		303.20	14.84	3.19	38.82	999.00	294.80	13.30	3.72		282.50	6.04	7.01	38.10	999.00	0.83	999.00	1.05	0.00
20	4 16 23		14.96	4.05	38.34	999.00	292.30	13.54	4.48		279.80	7.11	6.79	37.87	999.00	0.45	999.00	0.66	0.00
20			13.74	4.00	37.61	999.00	297.50	12.29	4.48		281.10	5.95	6.93	37.12	999.00	0.71	999.00	1.07	0.00
	4 17 1		11.49	3.08	37.12	999.00	292.50	9.86	3.73		256.30	4.92	8.29	36.44	999.00	0.58	999.00	0.59	0.00
	4 17 2		8.18	2.20	37.08	999.00	293.00	6.93	1.47		206.20	3.08	7.14	36.20	999.00	1.54	999.00	1.46	0.00
20	4 17 3		4.69	4.12	37.46	999.00	317.30	3.66	5.38		176.10	2.34	8.93	35.78	999.00	1.15	999.00	1.07	0.00
	4 17 4		3.25	8.37	37.60	999.00	241.00	3.35	8.14		185.60	3.28	9.67	34.97	999.00	3.39	999.00	3.19	0.00
	4 17 5		8.29	4.85	36.55	999.00	178.80	9.91	4.55		183.20	3.08	14.37	34.05	999.00	2.48	999.00	2.41	0.00
20	4 17 6		11.93	1.72	36.67	999.00	166.00	12.71	1.69		175.10	4.39	12.09	34.71	999.00	1.62	999.00	1.23	0.00
20	4 17 7		15.26	3.70	36.48	999.00	164.50	13.06	3.86		178.00	4.67	17.27	35.19	999.00	1.31	999.00	0.44	0.00
20	4 17 8		5.27	21.49	35.60	999.00	194.20	4.50	28.04	35.57	197.90	2.43	45.98	35.80	999.00	-1.24	999.00	-0.96	0.00
20	4 17 9	153.10	9.90	7.27	34.94	999.00	146.80	9.43	8.47	35.37	152.20	6.02	17.25	36.38	999.00	-1.91	999.00	-1.25	0.00
20	4 17 10	151.10	8.59	5.22	31.98	999.00	143.50	7.59	6.01	32.49	143.30	4.49	14.70	33.68	999.00	-1.60	999.00	-1.22	0.00
20	4 17 11	146.40	10.44	5.70	31.17	999.00	144.20	9.93	5.77	31.63	151.60	6.01	12.53	32.44	999.00	-1.12	999.00	-1.05	0.03
20	4 17 12	137.70	15.16	5.71	31.03	999.00	131.00	13.82	6.11	31.54	141.40	7.87	12.34	32.28	999.00	-1.41	999.00	-1.05	0.02
20	4 17 13	115.80	19.97	4.61	31.23	999.00	110.10	17.96	5.93	31.69	119.00	9.01	14.19	32.35	999.00	-1.04	999.00	-0.88	0.03
20	4 17 14	108.00	20.55	4.20	31.55	999.00	101.90	19.22	4.86	31.99	110.70	10.86	12.05	32.42	999.00	-0.84	999.00	-0.82	0.02
2.0	4 17 15	106.00	21.56	4.75	32.03	999.00	98.20	20.80	5.09	32.47	104.90	11.44	14.36	32.94		-1.07	999.00	-0.57	0.01
	4 17 16		21.56	3.91	32.61	999.00	99.70	21.74	4.63		108.50	11.47	14.15	33.65	999.00	-0.98	999.00	-0.65	0.02
	4 17 17		19.72	4.14	33.01	999.00	94.20	18.95	4.87		103.00	9.89	14.66	34.19	999.00	-1.35	999.00	-0.80	0.02
	4 17 18		14.22	4.78	33.24	999.00	96.30	14.00	5.16	33.90	109.10	8.03	12.17	34.76	999.00	-1.55	999.00	-0.90	0.01
	4 17 19	97.00	13.74	2.93	33.89	999.00		12.90	3.89	34.65	98.80	7.63	11.80	35.37	999.00	-1.44	999.00	-0.67	0.00
		999.00					89.60												
	4 17 20		999.00	999.00	34.32	999.00	999.00	999.00	999.00	35.20	999.00	999.00	999.00	35.78	999.00	999.00	999.00	-0.58	0.00
	4 17 21	47.51	9.56	10.59	34.98	999.00	42.11	8.36	10.28	35.71	45.10	8.82	11.82	36.10	999.00	-0.98	999.00	-0.35	0.00
20		17.40	15.45	11.79	34.91	999.00	9.39	14.68	12.84	35.51	11.32	11.83	9.64	36.13	999.00	-1.49	999.00	-0.88	0.00
	4 17 23	4.63	15.84	5.16	34.44	999.00		15.61	4.68	35.11	1.36	11.98	8.21		999.00		999.00	-0.72	0.00
	4 17 24	2.75	13.51	5.18		999.00		13.52	5.48		357.60	10.18	8.78		999.00		999.00	-0.71	0.00
	4 18 1	3.21	14.68	3.88	34.55	999.00	356.60	14.55	4.35	35.20	1.18	10.93	7.78	36.06	999.00	-1.54	999.00	-0.49	0.00
20	4 18 2	346.10	14.99	4.48	34.66	999.00	340.10	14.40	4.80	35.26	345.40	10.23	7.92	35.92	999.00	-0.99	999.00	-0.17	0.00
20	4 18 3	333.50	14.34	4.84	34.72	999.00	325.90	13.80	5.61	35.27	324.50	8.90	9.90	35.34	999.00	-0.44	999.00	-0.45	0.00
	4 18 4		9.42	8.03		999.00		9.16	6.43		272.50	6.10	7.89		999.00		999.00	0.69	0.00
	4 18 5		12.59	2.69		999.00		12.70	1.53		273.70	5.86	8.53		999.00		999.00	2.58	0.00
	4 18 6		14.29	2.23		999.00		13.22	3.93		259.00	6.86	6.36		999.00		999.00	0.77	0.00
	4 18 7		15.00	4.25		999.00		11.64	6.05		235.90	7.31	7.41		999.00		999.00	0.05	0.00
	4 18 8		14.26	3.27		999.00		11.79	4.70		235.50	8.54	7.99		999.00		999.00	-1.13	0.00
20	1 10 0	200.00	T-1.70	J • Z I	22.33	222.00	270.00	11.19	4. / U	21.40	200.00	0.04	1.00	51.55	222.00	0.04	222.00	1.10	0.00

		= 00 0.															
20 4 18 9 244.40	13.92		1.13 99			13.59	4.81		242.70	12.00	7.93		999.00		999.00	-2.34	0.00
20 4 18 10 233.90	13.46			99.00	226.90	13.39	6.36		229.10	10.43	12.70	32.74	999.00	-2.78	999.00	-2.91	0.00
20 4 18 11 223.70	14.98				216.60	14.60	8.77		224.00	10.83	16.13	32.74	999.00	-3.24	999.00	-3.39	0.00
20 4 18 12 228.00	16.39			99.00	222.60	16.22	6.89		230.50	13.04	12.18	39.99	999.00	-3.04	999.00	-3.04	0.00
20 4 18 13 233.80	17.82				228.40	17.66	6.98		236.60	14.82	9.15	43.12	999.00	-3.22	999.00	-2.59	0.00
20 4 18 14 242.90	19.01			99.00	237.30	18.56	8.84		242.50	14.41	10.85	46.20	999.00	-3.33	999.00	-2.42	0.00
20 4 18 15 251.30	24.49			99.00	244.80	23.93	7.29		247.80	18.50	10.12	48.81	999.00	-2.89	999.00	-2.19	0.00
20 4 18 16 253.40	25.71				246.10	25.09	8.03		250.10	19.05	11.69	50.27	999.00	-2.87	999.00	-1.86	0.00
20 4 18 17 250.50	25.82					24.59	7.70		248.60	17.30	11.73	51.04	999.00		999.00	-1.54	0.00
20 4 18 18 251.10	22.26				245.00	21.24	10.17		249.60	14.78	10.83	51.43	999.00		999.00	-1.43	0.00
20 4 18 19 246.70	21.76		0.01 99		240.70	20.92	8.59		246.80	15.32	10.79	52.12	999.00	-1.90	999.00	-1.27	0.00
20 4 18 20 240.60	21.84					20.51	5.09		236.20	14.03	8.43	51.71	999.00	-1.28	999.00	-0.63	0.00
20 4 18 21 226.10	20.94				219.00	18.62	2.86		223.40	9.28	10.11	49.59	999.00	0.17	999.00	0.30	0.00
20 4 18 22 222.70	22.63	2.33 48	3.23 99	99.00	214.40	19.68	2.74	48.15	215.70	8.35	12.68	47.42	999.00	1.06	999.00	0.81	0.00
20 4 18 23 215.70	24.87	2.65 4	6.90 99	99.00	206.50	21.31	3.27	46.73	207.60	9.11	13.11	46.11	999.00	0.74	999.00	0.39	0.00
20 4 18 24 217.90	24.72	3.27 4	5.59 99	99.00	209.60	21.15	4.47	45.44	215.60	9.14	13.04	45.17	999.00	0.19	999.00	0.05	0.00
20 4 19 1 223.50	21.52	3.22 4	4.96 99	99.00	214.20	18.37	3.62		216.60	7.70	12.31	44.50	999.00	0.79	999.00	0.66	0.00
20 4 19 2 219.00	21.87	2.81 4	4.96 99	99.00	207.20	18.57	3.08	44.89	205.30	8.00	12.98	44.50	999.00	1.09	999.00	0.70	0.00
20 4 19 3 221.60	22.90	2.70 42			212.00	19.12	3.69		212.80	7.77	13.38	42.03	999.00	0.98	999.00	0.58	0.00
20 4 19 4 217.70	24.19	2.98 42	2.09 99	99.00	207.40	20.25	3.78	41.76	211.20	9.44	12.43	41.35	999.00	0.51	999.00	0.11	0.00
20 4 19 5 218.80	25.02	3.38 43	1.81 99	99.00	208.40	21.12	4.28		215.20	9.89	12.64	41.54	999.00	0.17	999.00	-0.10	0.00
20 4 19 6 218.40	25.17			99.00	208.20	21.81	4.17		212.30	10.15	12.10	41.62	999.00	0.13	999.00	-0.08	0.00
20 4 19 7 227.30	28.50				217.90	25.61	5.00		222.90	14.48	11.75	42.40	999.00	-0.27	999.00	-0.40	0.00
20 4 19 8 226.40	28.37			9.00	217.30	25.17	5.05	44.24	223.30	14.04	11.76	44.69	999.00	-0.63	999.00	-0.47	0.00
20 4 19 9 229.90	28.25				221.20	26.08	6.28			17.40	10.27	47.30	999.00	-1.71	999.00	-1.14	0.00
20 4 19 10 242.70	26.21	4.99 4	7.93 99	9.00	236.30	25.63	5.14		242.40	19.52	8.94	49.76	999.00	-1.93	999.00	-1.36	0.00
20 4 19 11 245.90	25.99	4.30 4	7.93 99	9.00	239.20	25.50	4.36		243.80	19.03	8.68	49.76	999.00	-2.35	999.00	-1.64	0.00
20 4 19 12 240.90	21.66				235.60	21.43	6.38		241.00	16.44	9.65	52.85	999.00	-2.60	999.00	-1.78	0.00
20 4 19 13 239.00	19.57				233.80	19.10	7.95		240.90	15.05	9.82	54.13	999.00	-2.81	999.00	-1.98	0.00
20 4 19 14 244.10	20.39				238.10	20.05	7.01		244.90	15.03	10.84	55.48	999.00	-2.69	999.00	-1.85	0.00
20 4 19 15 240.10	19.12			9.00	233.90	18.88	5.37	54.06	238.80	14.01	9.39	55.88	999.00	-2.32	999.00	-1.63	0.00
20 4 19 16 243.20					234.70	16.37	10.41		239.40	12.45	12.34	58.15	999.00	-3.16	999.00	-2.31	0.00
20 4 19 17 268.80				99.00	261.00	15.06	11.42		261.80	10.93	13.69	58.91	999.00	-1.84	999.00	-1.36	0.00
20 4 19 18 320.30				99.00	314.60	9.86	10.61	58.58	320.90	7.96	12.21	60.16	999.00	-2.27	999.00	-1.71	0.00
20 4 19 19 322.60				99.00	317.40	11.30	11.67	58.80	327.10	7.74	15.14	60.06	999.00	-1.20	999.00	-0.82	0.00
20 4 19 20 64.77	22.26			99.00	57.96	20.44	6.10	46.77	67.38	15.19	9.97	48.16	999.00	-1.78	999.00	-1.14	0.00
20 4 19 21 76.00	20.62			99.00	68.01	18.18	5.54	44.19	78.20	11.98	11.54	45.19	999.00	-1.25	999.00	-0.94	0.00
20 4 19 22 62.31	20.74			99.00	55.94	18.94	5.16	44.13	61.34	14.67	9.49	45.00	999.00	-1.42	999.00	-1.00	0.00
20 4 19 23 69.24	20.66			99.00	60.87	19.90	5.87	41.84	67.03	15.38	10.96	42.84	999.00	-1.51	999.00	-1.07	0.00
20 4 19 24 68.85	18.31			99.00	60.38	17.74	5.96	40.00	69.55	13.56	10.52	41.00	999.00	-1.45	999.00	-1.05	0.00
20 4 20 1 70.90	20.83			99.00	61.49	20.32	5.16	39.41	70.40	13.50	9.53	40.33	999.00	-1.31	999.00	-0.98	0.00
20 4 20 2 73.60	17.34			99.00	64.96	16.95	5.52	39.43	72.00	12.52	9.94	40.30	999.00	-1.32	999.00	-0.90	0.00
20 4 20 3 83.90	19.38		3.90 99		75.70	18.85	4.38	39.34	82.70	12.72	10.47		999.00		999.00	-0.94	0.00
20 4 20 4 83.70			8.95 99			17.90	5.14	39.43	81.50				999.00	-1.28		-0.85	0.00
20 4 20 5 86.70	16.86		9.08 99		78.40	15.96	5.42	39.53			11.39		999.00		999.00	-0.74	0.00
20 4 20 6 82.80	17.61		9.08 99		75.40	16.95	3.64	39.53	80.90	10.98	10.64		999.00		999.00	-0.80	0.00
20 4 20 7 93.10	14.39		3.52 99		85.20	13.70	4.94		92.80	7.83	13.14		999.00		999.00	-0.68	0.00
20 4 20 8 103.00	12.93		3.62 99		95.40	12.16	7.53		105.10	6.79	13.71		999.00		999.00	-1.30	0.00
20 4 20 9 113.20	13.41		8.63 99			13.07	5.79		118.60	8.75	13.56		999.00		999.00	-1.84	0.00
20 4 20 10 127.10	14.47		3.77 99			14.15	7.17		126.60	8.96	14.69		999.00		999.00	-2.40	0.00
20 4 20 11 127.20	11.90		9.24 99			11.76	7.40		124.60	9.36	13.85		999.00		999.00	-2.35	0.00
20 4 20 12 164.60	6.97	26.04 4	1.57 99	19.00	154.50	6.65	25.19	42.50	15/.00	5.20	42.10	44.94	999.00	-3.28	999.00	-1.36	0.00

20	4 20 13	122 70	E 00	27 (4	41 57	000 00	110 00	C 01	20 01	40 E0	100 00	4 02	10 67	44 04	000 00	2 24	999.00	1 7/	0.00
	4 20 13		5.99 6.67	27.64		999.00		6.01 6.97	30.81 21.08		129.90	4.93	42.67		999.00 999.00		999.00	-1.74	0.00
				24.38			131.00				119.40	6.47	20.69	49.04				-1.63	
	4 20 15		5.87	24.74	47.31	999.00	126.50	6.52	23.65		118.30	6.13	23.56	50.37			999.00	-2.00	0.00
	4 20 16		14.35	8.97	50.72	999.00	221.80	13.75	10.37		228.50	10.27	16.86	54.24		-3.87	999.00	-2.38	0.00
	4 20 17		15.08	10.11	52.48	999.00	233.90	14.48	9.28		238.70	12.10	12.15	55.83	999.00	-3.24	999.00	-2.38	0.00
	4 20 18		21.00	8.79	54.29	999.00	228.60	20.34	9.57		236.40	15.28	13.87	57.17	999.00	-2.66	999.00	-1.71	0.00
	4 20 19		22.88	6.51	55.56	999.00	223.60	21.67	6.56		230.50	15.52	10.52	57.76	999.00	-2.08	999.00	-1.25	0.00
	4 20 20		19.41	3.96	56.29	999.00	226.30	17.96	4.58		231.00	11.15	9.64	57.72	999.00	-0.83	999.00	-0.24	0.00
	4 20 21		15.84	3.07	56.14	999.00	211.80	13.80	3.70		198.90	5.16	11.89	55.57	999.00	1.41	999.00	1.46	0.00
	4 20 22		21.08	2.05	55.57	999.00	189.40	17.31	2.19		188.10	6.55	9.32	53.33	999.00	2.38	999.00	1.51	0.00
20	4 20 23		26.39	3.81	54.90	999.00	211.80	23.23	4.42		216.60	11.06	12.75	53.60	999.00	0.53	999.00	0.44	0.00
	4 20 24		30.12	5.60	54.62	999.00	237.40	28.06	5.73		241.50	19.53	8.17	54.32	999.00	-0.10	999.00	-0.19	0.00
	4 21 1		24.88	4.03	53.47	999.00	224.50	22.12	5.16		227.10	11.73	11.18	53.96	999.00	-0.04	999.00	0.03	0.00
	4 21 2		34.04	7.57	50.67	999.00	276.00	30.78	8.08		279.50	20.34	10.42	51.25	999.00	-1.23	999.00	-0.06	0.04
20			19.20	10.31	45.78	999.00	250.60	17.23	11.48	47.11		11.19	14.40	46.69	999.00	-0.82	999.00	0.44	0.01
	4 21 4		24.85	7.10	45.69	999.00	271.20	23.08	7.84		273.40	15.03	10.51	46.24	999.00	-0.40	999.00	1.13	0.00
	4 21 5		24.78	7.43	44.49	999.00	287.00	22.99	8.38	45.17	285.00	14.41	11.59	44.35	999.00	0.47	999.00	1.32	0.00
	4 21 6		24.44	7.14	42.79	999.00	287.00	23.34	7.36	43.20	287.70	15.77	11.84	42.46	999.00	-0.02	999.00	0.86	0.00
	4 21 7		23.15	5.04	40.77	999.00	298.50	21.47	5.24	41.21	298.50	13.99	10.39	41.08	999.00	-0.30	999.00	-0.47	0.00
	4 21 8		27.46	5.26	38.80	999.00	295.40	26.59	5.42	39.27	297.40	18.04	10.98	39.83	999.00	-1.36	999.00	-1.09	0.00
	4 21 9		27.82	5.94	37.81	999.00	310.10	26.69	6.50	38.37	315.80	18.80	12.92	39.71		-2.03	999.00	-1.70	0.00
	4 21 10		28.76	6.56	37.52	999.00	293.70	27.80	7.08		295.70	19.02	11.34	39.51		-1.92	999.00	-1.72	0.00
	4 21 11		27.00	5.62	37.52	999.00	309.20	25.62	6.11		315.80	19.41	11.67		999.00		999.00	-2.52	0.00
	4 21 12		24.84	7.84	37.26	999.00	310.40	23.95	8.02		314.70	17.01	13.67	40.01	999.00	-2.79	999.00	-2.49	0.00
	4 21 13		27.97	5.86	37.61	999.00	306.50	26.79	5.82		311.20	19.96	11.42	40.44	999.00	-3.03	999.00	-2.51	0.00
	4 21 14		27.31	6.01	37.61	999.00	311.00	26.41	6.83		316.00	18.69	12.36	40.44	999.00	-2.74	999.00	-2.10	0.00
	4 21 15		28.83	8.33	38.79	999.00	295.20	27.82	8.75		301.60	20.48	12.56	41.50	999.00	-2.93	999.00	-2.56	0.00
	4 21 16		28.34	8.45	39.20	999.00	298.60	26.72	8.66		303.30	18.80	13.12	41.84	999.00	-2.59	999.00	-2.26	0.00
	4 21 17		27.57	7.23	39.02	999.00	302.10	26.38	7.25		303.50	18.53	13.18	41.57	999.00	-2.51	999.00	-2.13	0.00
	4 21 18		26.13	7.93	39.36	999.00	304.10	24.88	7.94		307.40	18.10	13.51	41.92	999.00	-2.13	999.00	-1.74	0.00
	4 21 19		26.56	6.68	39.17	999.00	306.90	25.62	6.77		312.80	17.32	12.36	41.32	999.00	-1.90	999.00	-1.37	0.00
	4 21 20		29.75	5.67	38.82	999.00	307.30	28.22	5.86		313.30	19.16	11.60	40.70	999.00	-1.70	999.00	-1.08	0.00
	4 21 21		24.57	6.57	38.01	999.00	297.20	23.34	6.55		300.20	14.99	11.88	39.18	999.00	-0.93	999.00	-0.42	0.00
	4 21 22		24.17	5.16	37.45	999.00	311.50	22.50	5.99		316.70	14.09	11.51	38.34		-1.01	999.00	-0.47	0.00
	4 21 23		21.81	5.39	37.45	999.00	312.70	20.54	6.02		317.70	13.55	10.76	38.34	999.00	-1.03	999.00	-0.50	0.00
	4 21 24		21.94	5.73	36.49	999.00	317.90	21.08	6.14		319.80	14.72	9.64	37.46	999.00	-1.07	999.00	-0.56	0.00
20	4 22 1		21.43	4.98	35.99	999.00	324.90	20.41	5.40		328.80	13.78	10.60	36.96	999.00	-0.98	999.00	-0.54	0.00
20		338.60	16.52	5.03	35.60	999.00	330.70	15.93	5.18	35.99	334.00	10.63	9.81	36.48	999.00	-0.87	999.00	-0.39	0.00
		342.40	15.10	5.75	35.08	999.00	335.20	14.72	6.18		338.70	10.21	10.49	35.82	999.00	-0.82	999.00	-0.39	0.00
	4 22 4	330.20	12.10	5.03	34.67	999.00	321.80	11.67	6.15		317.50	7.21	9.95	35.22	999.00	-0.44	999.00	0.09	0.00
20	4 22 5	307.80	8.65	7.92	33.91	999.00	285.10	8.97	5.42		254.30	6.44	5.03	33.32	999.00	1.60	999.00	1.64	0.00
20		288.70	10.47	3.85	33.22	999.00	273.60	11.80	2.56		256.90	5.43	7.59	30.88	999.00	2.46	999.00	1.58	0.00
	4 22 7		10.64	1.62	33.13	999.00		11.37	1.17		275.00	4.97	6.31		999.00		999.00	2.41	0.00
	4 22 8		10.31	1.41		999.00		10.63	1.58		272.80	5.74	7.59		999.00		999.00	0.95	0.00
	4 22 9		7.28	2.41		999.00		7.25	4.35		280.30		10.51		999.00		999.00	-0.92	0.00
	4 22 10		5.55	9.18		999.00		5.48	9.82		238.10	4.86	12.82		999.00		999.00	-1.45	0.00
	4 22 11		5.58	11.49		999.00			14.05		222.20		23.35		999.00		999.00	-1.55	0.00
	4 22 12		8.19	10.40		999.00		7.90	10.56		256.10		14.83		999.00		999.00	-1.44	0.00
	4 22 13		6.09	14.98		999.00		5.97	14.34		260.10		19.47		999.00		999.00	-1.37	0.00
	4 22 14		1.50	57.26		999.00		1.84	39.35		97.70	2.17	31.99		999.00		999.00	-1.03	0.00
	4 22 15		8.15	7.81		999.00		8.13	7.04		92.00		11.31		999.00		999.00	-1.59	0.00
20	4 22 16	109.80	8.41	8.45	35.59	999.00	100.90	7.98	9.72	36.24	110.20	5.64	18.34	37.90	999.00	-2.26	999.00	-1.60	0.00

20	4 22 17	100.70	8.74	8.03	36.52	999.00	93.00	8.71	7.45	37.10	96.60	6.21	14.50	38.48	999.00	-1.83	999.00	-1.27	0.00
20	4 22 18	109.00	10.86	4.44	36.93	999.00	102.20	10.73	5.15	37.46	108.40	6.48	11.58	38.77	999.00	-1.65	999.00	-1.20	0.02
20	4 22 19	102.50	16.94	4.19	35.29	999.00	95.60	16.47	4.47	35.70	105.80	9.27	12.82	35.65	999.00	0.22	999.00	0.62	0.00
2.0	4 22 20	104.80	21.13	4.11	35.42	999.00	98.70	20.65	4.41	35.90	107.20	11.33	13.62	35.47	999.00	-0.30	999.00	0.28	0.00
	4 22 21		22.04	3.96	36.06	999.00	104.80	21.01	4.79		110.30	11.13	14.91	36.74	999.00	-1.00	999.00	-0.42	0.00
20	4 22 22		17.92	5.39	36.47	999.00	99.80	17.55	5.68		105.70	9.76	15.12	37.43	999.00	-0.97	999.00	-0.48	0.00
				4.29			112.90	19.28			120.30		12.77		999.00		999.00		0.00
20			19.76		36.47	999.00			4.52			10.42		37.43		-1.29		-0.76	
	4 22 24		17.50	6.20	37.43	999.00	112.80	16.98	6.36		113.60	9.20	13.35	38.53	999.00	-0.82	999.00	-0.40	0.00
20	4 23 1		18.90	7.73	38.48	999.00	104.70	18.17	8.32		104.70	11.06	14.19	39.11		-0.75	999.00	-0.30	0.00
20	4 23 2	78.90	16.75	5.31	39.34	999.00	72.70	15.62	5.87	39.83	73.40	10.26	11.01	40.16	999.00	-0.85	999.00	-0.37	0.00
20	4 23 3	97.30	22.10	3.16	39.49	999.00	92.30	21.33	3.88	40.01	98.60	12.74	11.49	40.36	999.00	-1.09	999.00	-0.56	0.00
20	4 23 4	102.40	16.46	3.01	39.78	999.00	96.70	15.98	3.81	40.28	101.80	8.06	13.22	40.59	999.00	-0.62	999.00	-0.12	0.00
20	4 23 5	120.00	16.37	2.27	40.07	999.00	114.40	15.76	3.20	40.56	120.00	8.57	12.23	40.71	999.00	-0.75	999.00	-0.25	0.00
20	4 23 6	108.90	16.27	2.34	39.99	999.00	103.20	15.97	2.77	40.48	109.20	7.73	13.39	40.57	999.00	-0.67	999.00	-0.18	0.00
		112.10	17.29	2.98	40.32	999.00	106.00	17.00	3.66		111.80	8.40	13.84	41.04	999.00	-0.78	999.00	-0.26	0.00
		116.20	15.36	3.41	40.53	999.00	110.50	14.87	3.73		116.70	8.26	12.11	41.63	999.00	-1.47	999.00	-0.95	0.00
	4 23 9		12.35	4.86	40.92	999.00	100.50	11.26	6.14		110.40	6.59	15.36	42.73	999.00	-2.01	999.00	-1.43	0.00
	4 23 10	98.70	11.66	4.22	41.29	999.00	91.80	11.60	4.47	41.86	97.90	7.85	12.32	43.40	999.00	-2.21	999.00	-1.63	0.00
	4 23 11	97.90	13.19	4.00	41.83	999.00	92.90	13.00	5.79	42.35	97.90	8.44	14.20	44.00	999.00	-2.24	999.00	-1.85	0.00
	4 23 12	101.50	10.49	7.16	42.31	999.00	96.90	10.03	8.22	42.92	98.90	7.54	15.78	44.76	999.00	-2.76	999.00	-2.09	0.00
	4 23 13	90.20	11.47	5.84	42.47	999.00	81.30	11.40	6.49	43.10	82.80	8.74	12.67	44.99	999.00	-2.25	999.00	-1.64	0.00
20	4 23 14	80.50	14.72	3.06	42.05	999.00	72.70	14.68	4.38	42.75	75.60	10.90	11.20	44.39	999.00	-2.53	999.00	-1.82	0.00
20	4 23 15	75.80	13.75	5.14	41.68	999.00	71.10	13.84	5.53	42.38	74.50	10.35	12.16	44.06	999.00	-2.37	999.00	-1.73	0.00
20	4 23 16	70.90	15.62	5.67	42.15	999.00	65.34	14.91	6.17	42.83	73.30	12.17	11.09	44.53	999.00	-2.41	999.00	-1.67	0.00
20	4 23 17	72.50	17.41	4.17	41.75	999.00	66.16	16.65	5.00	42.48	69.75	12.42	9.84	44.13	999.00	-2.28	999.00	-1.60	0.00
2.0	4 23 18	91.90	19.35	3.20	41.75	999.00	86.00	18.68	3.77	42.48	90.10	13.33	10.92	44.13	999.00	-2.33	999.00	-1.72	0.00
	4 23 19	89.00	17.55	3.87	40.73	999.00	83.00	17.07	4.42	41.35	83.60	11.77	10.55	42.97	999.00	-2.18	999.00	-1.55	0.00
	4 23 20	75.60	18.66	4.23	40.85	999.00	70.50	17.94	4.96	41.45	77.40	12.48	10.56	42.82	999.00	-1.89	999.00	-1.31	0.00
	4 23 21	80.90	17.65	3.76	40.64	999.00	75.40	17.27	4.41	41.21	80.80	11.72	10.40	42.50	999.00	-1.84	999.00	-1.25	0.00
	4 23 22	71.60	17.43	4.17	40.58	999.00	66.34	16.57	4.79	41.16	70.30	11.72	10.40	42.37	999.00	-1.78	999.00	-1.21	0.00
	4 23 23	70.50	17.36	4.14	40.43	999.00	65.17	16.47	4.70	40.98	69.26	11.35	9.26	42.13	999.00	-1.71	999.00	-1.13	0.00
	4 23 24	68.87	19.61	3.13	40.26	999.00	62.86	18.93	3.59	40.85	66.61	12.56	9.74	42.00	999.00	-1.75	999.00	-1.17	0.00
20		63.28	20.53	4.18	40.25	999.00	58.02	19.88	4.84	40.84	58.76	13.13	10.33	42.02	999.00	-1.79	999.00	-1.21	0.00
20	4 24 2	63.49	18.45	4.66	40.06	999.00	57.87	18.03	5.03	40.63	62.46	12.66	11.03	41.78	999.00	-1.66	999.00	-1.11	0.00
	4 24 3	64.09	16.20	5.40	39.81	999.00	58.94	15.02	6.06	40.38	59.42	11.10	10.41	41.53	999.00	-1.76	999.00	-1.16	0.00
20	4 24 4	65.03	15.41	6.48	39.68	999.00	59.04	14.08	7.07	40.27	65.81	9.51	11.86	41.47	999.00	-1.73	999.00	-1.14	0.00
20	4 24 5	44.83	12.31	6.69	39.73	999.00	40.03	10.54	6.92	40.31	43.16	10.84	9.69	41.50	999.00	-1.80	999.00	-1.23	0.00
20	4 24 6	58.35	9.87	8.30	39.93	999.00	55.28	9.76	7.39	40.50	63.65	7.30	14.15	41.67	999.00	-1.72	999.00	-1.16	0.00
20	4 24 7	39.47	9.25	9.18	39.28	999.00	36.56	7.86	9.92	39.83	39.58	7.98	12.03	41.03	999.00	-1.76	999.00	-1.22	0.00
20	4 24 8	19.66	8.58	14.26	38.93	999.00	14.47	7.89	14.45	39.48	12.28	8.03	14.47	40.72	999.00	-1.84	999.00	-1.28	0.00
20		34.51	9.27	8.04	39.06	999.00	29.82	7.31	8.02	39.58	31.42	7.58	13.10	40.81	999.00	-1.71	999.00	-1.18	0.00
20	4 24 10	8.82	9.44	11.26	39.06	999.00	3.25	9.23	9.91	39.58	1.18	8.78	11.88	40.81	999.00	-1.79	999.00	-1.29	0.00
	4 24 11	22.96	8.16	16.34	40.15	999.00	19.76	7.60	15.97	40.64	12.51	8.42	23.14		999.00		999.00	-1.13	0.00
	4 24 12	21.08	8.01	14.41		999.00	14.76	7.66	14.28	41.59	9.36	7.86	17.74		999.00		999.00	-1.15	0.00
	4 24 13	34.22	5.31	15.11		999.00	30.95	4.57	16.20	42.77	16.93	5.36	16.64		999.00		999.00	-0.81	0.00
	4 24 14	6.37	5.66	16.02		999.00	10.51	4.92	19.39	45.12	33.92	4.93	25.47		999.00		999.00	-1.14	0.00
	4 24 15	51.11	5.55	17.25		999.00	50.69	5.69	15.69	47.98	54.08	6.07	19.35		999.00		999.00	-1.17	0.00
	4 24 16	58.99	5.30	18.66		999.00	62.15	5.71	16.06	48.83	79.50	4.92	22.87		999.00		999.00	-1.45	0.00
20	4 24 17	70.90	6.88	16.14	49.79	999.00	79.50	6.81	14.58	49.85	100.60	5.82	12.18	50.95	999.00		999.00	-0.94	0.00
20	4 24 18	69.62	8.30	7.58	49.34	999.00	85.20	8.13	6.41	49.28	103.90	6.53	8.44	50.54	999.00	0.01	999.00	-0.66	0.00
20	4 24 19	117.20	8.62	4.22	50.28	999.00	115.90	9.06	4.08		113.80	5.98	12.80	50.65	999.00		999.00	-0.75	0.00
	4 24 20		11.89	1.32		999.00		10.83	3.03		122.60	5.57	12.82		999.00		999.00	-0.99	0.00
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	4 24 21		12.01	3.38		999.00		11.13	4.51		128.50	5.07	12.68		999.00		999.00	-0.77	0.00
	4 24 22		12.30	1.22	49.42	999.00	124.00	10.27	1.91		129.40	4.60	10.85	50.24	999.00	-0.49	999.00	-0.59	0.00
	4 24 23	129.80	11.47	1.27	49.56	999.00	121.00	8.75	4.53	49.22	121.40	3.76	12.98	49.62	999.00	-0.23	999.00	-0.45	0.00
	4 24 24 4 25 1	123.20 84.20	11.23 11.26	2.06 7.96	49.05 48.21	999.00	113.30 69.67	9.29 12.01	3.13	48.84 48.08	94.50 62.78	3.63 7.44	12.61 10.50	48.65 47.12	999.00 999.00	0.63 0.43	999.00 999.00	0.55 0.21	0.00
	4 25 2	70.70	16.02	1.94	48.21	999.00	62.60	16.08	6.64 3.79	48.08	63.00	9.16	10.30	47.12	999.00	-0.18	999.00	-0.49	0.00
20	4 25 2	74.20	13.49	1.94	44.84	999.00	70.40	12.34	3.79	44.94	79.10	6.89	9.16	47.12	999.00	-1.36	999.00	-0.49	0.00
20	4 25 4	84.90	11.31	8.05	43.32	999.00	77.90	10.32	9.48	43.79	82.00	6.99	13.10	44.80	999.00	-1.61	999.00	-1.09	0.00
20	4 25 5	77.40	12.63	3.47	42.73	999.00	71.40	11.64	5.14	43.73	81.00	7.28	12.75	44.34	999.00		999.00	-1.04	0.00
20	4 25 6	79.70	12.43	3.16	42.73	999.00	71.50	11.82	3.94	42.80	79.50	7.52	9.63	43.75	999.00	-1.43		-0.97	0.00
	4 25 7	94.10	13.05	3.68	42.33	999.00	86.80	12.24	4.20	42.72	90.00	8.00	11.80	43.79	999.00	-1.75	999.00	-1.18	0.00
	4 25 8	91.60	11.20	4.10	42.39	999.00	84.10	10.90	4.70	42.99	88.40	7.72	11.76	44.28	999.00	-1.94		-1.34	0.00
	4 25 9	94.90	15.42	3.17	42.58	999.00	86.60	15.17	3.43	43.14	86.70	10.99	10.47	44.61	999.00	-2.14	999.00	-1.58	0.00
	4 25 10	98.60	14.56	4.97	43.23	999.00	91.20	13.57	5.95	43.80	92.30	8.96	11.42	45.36	999.00	-2.18	999.00	-1.59	0.00
	4 25 11	90.30	16.14	3.39	43.74	999.00	79.50	15.55	4.43	44.17	81.90	11.02	10.28	45.69	999.00	-1.72	999.00	-1.41	0.00
	4 25 12	78.50	16.60	4.21	43.98	999.00	70.40	15.69	6.54	44.39	73.10	11.41	12.93	45.90	999.00	-2.24	999.00	-1.62	0.00
	4 25 13	79.60	22.47	3.80	43.24	999.00	73.90	20.86	5.46	43.95	78.30	14.48	10.87	45.83	999.00	-2.54	999.00	-1.86	0.00
	4 25 14	73.80	20.69	3.77	43.45	999.00	69.33	19.04	5.76	44.20	76.10	13.80	11.75	46.11	999.00	-2.90	999.00	-2.07	0.00
	4 25 15	73.30	25.53	3.69	43.79	999.00	67.96	23.53	5.93	44.58	71.20	16.89	10.72	46.76	999.00	-3.30	999.00	-2.46	0.00
	4 25 16	77.40	22.87	4.12	44.37	999.00	71.80	21.74	5.11	45.23	77.30	15.52	10.93	47.51	999.00	-2.92	999.00	-2.12	0.00
20	4 25 17	72.00	26.11	3.60	44.96	999.00	66.42	23.45	5.85	45.74	72.50	16.12	10.25	47.75	999.00	-2.56	999.00	-1.86	0.00
20	4 25 18	72.30	21.60	4.18	45.47	999.00	66.23	19.41	5.44	46.04	74.90	12.86	11.21	47.67	999.00	-1.95	999.00	-1.46	0.00
20	4 25 19	78.20	23.70	3.10	45.90	999.00	72.20	20.74	4.77	46.35	78.90	13.05	10.31	47.70	999.00	-1.69	999.00	-1.28	0.00
20	4 25 20	72.50	23.81	8.83	46.50	999.00	66.48	20.15	11.05	46.74	67.52	12.81	16.24	47.82	999.00	-1.32	999.00	-1.05	0.00
20	4 25 21	61.87	25.87	4.51	46.48	999.00	58.78	22.65	5.08	46.61	62.07	12.61	9.87	47.37	999.00	-0.61	999.00	-0.58	0.00
20	4 25 22	49.31	26.28	4.67	47.07	999.00	44.60	22.87	6.80	47.38	47.51	19.77	8.86	48.31	999.00	-1.32	999.00	-0.98	0.00
20	4 25 23	51.07	21.82	6.36	46.52	999.00	46.27	18.30	7.83	46.88	47.44	16.62	8.76	47.86	999.00	-1.38	999.00	-1.01	0.00
	4 25 24	49.08	23.17	5.16	46.14	999.00	40.87	18.28	6.72	46.32	41.08	13.55	10.18	47.17	999.00	-0.59	999.00	-0.58	0.00
	4 26 1	65.08	20.80	4.42	46.14	999.00	57.86	17.95	5.24	46.32	58.46	10.56	10.03	47.17	999.00		999.00	-0.68	0.00
20	4 26 2	62.02	24.26	6.65	45.58	999.00	56.72	21.01	7.43	45.91	57.11	13.54	12.34	46.63	999.00	-1.11	999.00	-0.70	0.03
20	4 26 3	59.49	24.47	7.37	45.02	999.00	53.82	21.43	8.57	45.47	56.31	15.71	10.32	46.18	999.00	-1.11	999.00	-0.61	0.06
20	4 26 4	38.12	18.69	5.07	44.04	999.00	32.61	14.18	7.78	44.50	34.86	12.11	10.23	44.62	999.00	-0.27	999.00	0.18	0.08
20	4 26 5	34.39	23.20	4.02	42.68	999.00	30.56	17.60	6.32	43.23	31.41	16.94	10.19	42.13	999.00	0.57	999.00	1.15	0.08
20	4 26 6	36.02	25.32	4.48	42.43	999.00	32.80	18.58	6.97	42.97	36.94	17.76	10.45	41.68	999.00	0.56	999.00	1.08	0.04
20	4 26 7	30.48	30.41	4.26	42.28	999.00	24.96	23.98	6.95	42.79	26.45	19.55	10.48	42.19	999.00		999.00	0.61	0.05
	4 26 8	31.55	32.05	4.01	42.73	999.00	25.77	25.94	6.99	43.26	30.07	19.58	10.43	42.52	999.00	0.00	999.00	0.55	0.01
20 20	4 26 9 4 26 10	34.02 39.40	29.97 28.63	3.34 5.52	42.88 43.69	999.00	29.28 34.06	23.31 21.22	5.47 7.25	43.41 44.19	32.78 37.47	19.88 19.13	10.35 10.48	43.06 43.84	999.00 999.00	-0.15 -0.35	999.00 999.00	0.37 0.16	0.01 0.01
	4 26 10	43.30	32.26	5.34	45.00	999.00	38.74	26.42	6.93	45.48	46.02	23.55	9.71	45.81	999.00		999.00	-0.65	0.01
	4 26 12	43.14	30.24	5.48	45.56	999.00	37.31	24.38	7.43	45.96	42.70	19.83	10.42	46.80	999.00	-0.96	999.00	-0.59	0.03
	4 26 13	56.42	39.10	7.39	46.58	999.00	50.75	33.76	8.10	46.99	51.19	25.82	11.13	47.18	999.00	-0.68	999.00	-0.30	0.02
	4 26 14	36.40	28.85	4.79	47.47	999.00	31.23	21.27	6.75	47.76	37.59	16.96	11.37	48.54	999.00	-1.08	999.00	-0.91	0.00
	4 26 15	36.65	27.97	2.28		999.00	32.00	18.53	5.12	49.04	35.57	15.02	10.55		999.00		999.00	-0.17	0.00
	4 26 16		18.54	4.76		999.00	36.09	14.26	7.36	49.04	34.35		12.68	49.60			999.00	-0.50	0.00
	4 26 17	34.28	24.04	3.53		999.00	31.74	15.60	6.75	49.50	43.69		11.73		999.00		999.00	-0.44	0.00
	4 26 18	82.20	13.26	4.21		999.00	79.20	12.58	5.39	48.62	93.60	8.66	11.37		999.00		999.00	-1.49	0.00
	4 26 19	79.60	15.30	5.46		999.00	73.50	14.28	7.41	46.61	77.70	10.47	11.88		999.00		999.00	-1.62	0.00
	4 26 20	82.90	13.86	3.59		999.00	78.10	12.04	4.69	45.84	86.60	7.52	10.19		999.00		999.00	-1.20	0.00
	4 26 21	91.30	16.47	2.72		999.00	87.80	15.01	4.00	45.52	99.00	7.76	11.98		999.00		999.00	-0.80	0.00
	4 26 22	99.90	14.83	2.57		999.00	95.70	13.05	3.99		109.90	5.89	12.69		999.00		999.00	-0.65	0.00
	4 26 23	102.70	13.19	3.12		999.00		11.52	4.17		111.50	5.03	12.25		999.00		999.00	-0.53	0.00
	4 26 24		9.99	4.87	43.87	999.00	103.20	8.86	6.02	44.28	117.70	4.01	10.03	44.87	999.00	-1.05	999.00	-0.62	0.00

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20 4 27 1 104.20	5.89 7.38			11.01	43.93 211.80	1.93	20.01	44.29 999.00	-0.47 999.00	-0.09	0.00
20 4 27 2 103.40	10.10 2.51	43.48 999.00	98.10 9.68	3.71	43.93 109.40	3.82	11.63	44.29 999.00	-0.34 999.00	0.12	0.00
20 4 27 3 100.00	6.82 2.50	42.88 999.00	94.60 6.71	2.94	43.40 130.40	1.53	21.06	43.58 999.00	-0.20 999.00	0.31	0.00
20 4 27 4 89.70	5.40 3.25		81.20 5.03	3.38	43.24 270.80	0.83	23.72	42.63 999.00	0.47 999.00	0.93	0.00
20 4 27 5 29.76	1.31 70.70		323.80 1.50	39.59	42.66 259.50	2.14	23.34	40.25 999.00	3.19 999.00	3.52	0.00
20 4 27 6 275.60	6.33 2.39		272.50 7.98	1.46	42.11 249.00	3.17	12.77	37.85 999.00	4.38 999.00	4.49	0.00
20 4 27 7 270.30	1.97 8.07		262.80 3.72	2.37	42.14 206.60	1.42	14.47	38.00 999.00	4.59 999.00	4.75	0.00
20 4 27 8 237.00	5.15 6.83		242.80 6.76	5.14	42.49 225.40	3.67	9.81	37.99 999.00	3.40 999.00	3.67	0.00
20 4 27 9 249.10	7.53 7.41		252.60 7.17	6.53	42.02 230.60	5.27	8.54	40.87 999.00	-0.78 999.00	-0.67	0.00
20 4 27 10 239.90	7.95 6.34		237.00 7.76	6.92	43.40 235.10	6.70	10.11	45.13 999.00	-2.61 999.00	-2.07	0.00
20 4 27 11 233.10	7.25 9.10		229.30 6.95	12.50	46.37 227.30	6.20	18.59	48.29 999.00	-2.44 999.00	-1.78	0.00
20 4 27 12 206.70	7.12 14.81	48.47 999.00 2	201.60 6.91	17.11	49.44 197.30	5.42	19.49	51.19 999.00	-2.73 999.00	-1.37	0.00
20 4 27 13 224.30	10.03 10.33	50.98 999.00 2		10.64	51.82 217.50	7.61	16.20	53.85 999.00	-3.03 999.00	-2.36	0.00
20 4 27 14 230.30	12.35 14.99	53.47 999.00 2	225.50 11.94	16.37	54.19 223.30	9.00	21.91	56.49 999.00	-2.99 999.00	-2.38	0.00
20 4 27 15 252.60	10.38 12.15	55.67 999.00 2	247.40 10.04	11.05	56.35 233.60	8.29	15.85	58.53 999.00	-2.65 999.00	-2.04	0.00
20 4 27 16 226.50	10.63 14.89	57.42 999.00 2	218.80 10.37	11.57	58.11 217.40	7.83	13.48	60.28 999.00	-2.90 999.00	-2.28	0.00
20 4 27 17 206.90	12.00 11.22	58.53 999.00 2	200.20 11.45	11.08	59.27 193.40	8.21	14.39	60.99 999.00	-2.13 999.00	-1.36	0.00
20 4 27 18 203.00	13.22 10.23	59.19 999.00 1	197.30 12.62	10.55	59.78 197.10	8.21	16.04	61.15 999.00	-1.94 999.00	-1.25	0.00
20 4 27 19 188.20	14.69 4.74	58.94 999.00 1		5.15	59.46 181.90	6.57	11.84	60.26 999.00	-1.10 999.00	-0.64	0.00
20 4 27 20 183.50	15.72 2.66	58.55 999.00 1	176.00 13.58	3.04	58.88 175.20	5.64	12.84	59.09 999.00	-0.28 999.00	-0.03	0.00
20 4 27 21 182.10	16.99 5.34	57.87 999.00 1		6.25	58.08 174.40	5.64	23.86	58.06 999.00	0.03 999.00	0.17	0.00
20 4 27 22 193.90	4.01 14.99	56.02 999.00 1	176.10 4.14	15.12	56.39 147.10	3.49	11.43	56.33 999.00	-0.39 999.00	-0.09	0.00
20 4 27 23 152.70	5.02 25.92	55.84 999.00 1		27.67	56.15 131.00	3.93	57.23	55.92 999.00	0.18 999.00	0.46	0.00
20 4 27 24 204.40	10.76 15.27		198.40 9.49	15.20	55.22 217.10	4.57	15.72	55.04 999.00	-0.24 999.00	0.00	0.00
20 4 28 1 195.40	10.19 7.11	54.16 999.00 1		9.25	54.30 183.50	3.63	12.94	53.62 999.00	0.70 999.00	1.00	0.00
20 4 28 2 214.40	17.50 8.12	51.70 999.00 2		8.59	51.95 197.80	6.58	15.81	52.13 999.00	-0.52 999.00	-0.24	0.02
20 4 28 3 182.10	18.38 1.81	50.10 999.00 1		2.94	50.11 172.70	5.96	11.52	49.85 999.00	0.44 999.00	0.37	0.00
20 4 28 4 183.30	20.45 3.23	50.54 999.00 1		3.64	50.62 181.30	7.61	10.81	50.48 999.00	-0.47 999.00	-0.29	0.00
20 4 28 5 183.50	20.23 2.92	50.09 999.00 1		3.68	50.37 184.10	8.78	12.86	50.90 999.00	-0.85 999.00	-0.56	0.00
20 4 28 6 184.70	19.46 3.52	49.77 999.00 1		3.96	50.04 179.50	7.80	12.47	50.55 999.00	-0.84 999.00	-0.52	0.00
20 4 28 7 191.60	19.09 3.63	49.74 999.00 1		4.02	49.92 187.60	7.56	11.30	50.18 999.00	-0.43 999.00	-0.26	0.00
20 4 28 8 193.00	15.66 2.98	49.34 999.00 1		3.97	49.57 188.00	6.21	10.64	49.87 999.00	-0.71 999.00	-0.44	0.00
20 4 28 9 196.30	12.53 6.88	50.34 999.00 1		8.16	51.16 193.90	7.98	11.91	52.07 999.00	-2.13 999.00	-1.01	0.00
20 4 28 10 224.30	12.36 7.68		219.00 11.97	7.73	53.64 214.60	8.80	12.43	55.36 999.00	-2.69 999.00	-2.13	0.00
20 4 28 11 226.50	11.58 9.31		222.50 11.14	9.59	55.60 219.60	8.47	13.97	57.56 999.00	-2.49 999.00	-1.90	0.00
20 4 28 12 246.50	8.48 12.27		243.90 8.20	12.06	56.86 246.20	7.11	15.88	59.07 999.00	-3.06 999.00	-2.39	0.00
20 4 28 13 215.20	7.48 18.49		210.60 6.98	19.71	59.46 207.70	5.40	27.99	61.29 999.00	-2.72 999.00	-1.88	0.00
20 4 28 14 95.40	6.92 13.53		82.10 8.43	7.67	60.85 76.70	8.68	12.76	62.36 999.00	-0.69 999.00	-0.98	0.00
20 4 28 15 93.20	10.08 6.05		81.40 10.05	7.52	58.11 80.90	8.44	15.79	59.62 999.00	-2.27 999.00	-1.79	0.00
20 4 28 16 113.20	10.81 2.91		100.50 11.92	2.50	59.77 91.40	7.43	11.99	59.39 999.00	2.56 999.00	2.21	0.00
20 4 28 17 155.50	11.47 3.26		140.90 11.40	5.64	60.98 125.00	6.32	11.74	59.66 999.00	2.86 999.00	2.66	0.00
20 4 28 18 141.60	11.90 3.07	62.74 999.00 1		2.73	62.75 119.30	6.99	13.52	60.69 999.00	2.22 999.00	1.79	0.02
20 4 28 19 133.20	12.94 2.62	61.16 999.00 1		2.04	59.72 114.30	7.80	11.73	57.68 999.00	4.45 999.00	3.37	0.00
	19.89 2.34			3.63	57.66 102.10			56.20 999.00	3.37 999.00	1.41	0.00
20 4 28 21 118.00	29.67 2.48			5.16	53.51 119.00		13.38	52.89 999.00	4.68 999.00	0.43	0.00
20 4 28 22 117.30	27.34 2.30			4.19	52.67 116.50	10.34	12.72	52.87 999.00	1.92 999.00	-0.26	0.00
20 4 28 23 126.70	27.18 0.38			1.27	54.23 116.20	8.92	10.87	52.50 999.00	4.24 999.00	2.88	0.00
20 4 28 24 146.00	21.96 3.07			3.78	57.15 126.70	7.18	11.46	55.20 999.00	2.30 999.00	1.69	0.00
20 4 29 1 165.10	22.55 2.03			3.72	60.55 145.40	7.58	11.50	58.21 999.00	2.53 999.00	1.81	0.00
20 4 29 2 168.00	20.97 3.36			4.18	62.32 158.10		12.14	61.89 999.00	-0.08 999.00	-0.01	0.00
20 4 29 3 158.90	21.21 3.57			4.95	61.77 152.20	9.83	9.83	61.70 999.00	-0.34 999.00	-0.19	0.00
20 4 29 4 175.80	18.93 9.96	60.80 999.00 1	167.80 16.04	11.01	60.88 157.10	0./6	19.42	60.80 999.00	0.52 999.00	0.56	0.00

20 4 29 5 174.10	25.39	3.65		999.00		21.57	3.78		160.20	8.11	11.73		999.00		999.00	5.47	0.01
20 4 29 6 184.10	23.78	5.95	61.18	999.00	176.10	20.76	6.17		169.30	9.03	14.77	57.41	999.00	3.18	999.00	3.08	0.07
20 4 29 7 181.30	22.88	4.32	59.07	999.00	174.90	19.61	5.04	59.42	174.60	7.57	12.34	57.12	999.00	1.55	999.00	1.95	0.01
20 4 29 8 178.50	20.19	5.90	57.12	999.00	172.20	17.28	6.86	57.88	170.40	6.70	12.90	55.93	999.00	1.59	999.00	2.37	0.00
20 4 29 9 174.50	24.40	5.39	59.71	999.00	167.70	21.72	5.86	60.51	167.80	10.16	13.45	59.06	999.00	0.15	999.00	0.65	0.00
20 4 29 10 176.10	26.50	5.09	62.55	999.00	170.10	23.83	6.43	62.95	173.10	12.15	13.33	62.61	999.00	-0.05	999.00	0.30	0.00
20 4 29 11 170.40	25.79	4.97	61.86	999.00	163.30	22.98	6.25	62.27	166.50	11.63	13.52	62.07	999.00	-0.41	999.00	-0.01	0.00
20 4 29 12 170.20	25.10	5.70	61.79	999.00	164.20	22.92	6.23	62.25	165.70	12.01	14.15	62.54	999.00	-1.72	999.00	-1.14	0.00
20 4 29 13 192.80	33.88	7.00	65.09	999.00		31.29	7.54		190.70	18.50	13.18	66.39	999.00	-1.13	999.00	-0.69	0.00
20 4 29 14 209.30	25.45	5.15	65.92	999.00		23.62	6.30		201.60	12.45	12.92	67.24	999.00	-1.52		-1.02	0.00
20 4 29 15 201.40	33.11	5.60	65.95	999.00		31.52	6.38		194.10	18.71	12.01	67.73	999.00	-1.74	999.00	-1.12	0.00
20 4 29 16 201.30	29.43	6.96	67.00	999.00		27.38	8.01		194.50	15.32	13.69	68.84	999.00	-1.67	999.00	-1.05	0.00
20 4 29 17 189.20	25.48	6.72	65.64	999.00		24.01	7.38		187.30	14.07	12.26	67.13	999.00	-1.51		-0.95	0.00
20 4 29 18 174.70	29.26	5.60	61.83	999.00		27.02	6.21		171.80	15.31	13.25	63.34	999.00	-1.53	999.00	-1.01	0.00
20 4 29 19 195.50	27.22	4.99	60.22	999.00		25.27	5.47		191.10	14.78	11.13	61.73	999.00	-1.48	999.00	-0.97	0.00
	24.12		58.53	999.00			5.64		191.10	12.98	11.13	59.92	999.00	-1.40	999.00		0.00
		4.78				22.27										-0.89	
20 4 29 21 206.00	21.45	43.08	56.81	999.00	202.80	19.68	44.67		211.50	12.23	40.23	58.04	999.00	-1.31	999.00	-0.71	0.00
20 4 29 22 211.90	19.90	4.99	56.37	999.00		17.09	5.50		199.90	8.57	12.16	57.51	999.00	-1.04	999.00	-0.44	0.00
20 4 29 23 191.40	18.09	5.59	56.21	999.00		15.98	6.51		185.30	8.39	12.42	57.14	999.00	-0.98	999.00	-0.60	0.00
20 4 29 24 183.80	19.52	5.38	55.04	999.00		16.99	6.70		178.70	8.69	13.24	56.08	999.00	-1.10	999.00	-0.75	0.00
20 4 30 1 192.20	19.70	5.55	54.10	999.00		17.23	6.32		187.00	8.75	11.24	55.24	999.00	-1.21	999.00	-0.82	0.00
20 4 30 2 193.60	22.13	4.53	53.49	999.00		20.28	5.64		189.00	11.41	10.49	54.66	999.00	-1.22	999.00	-0.82	0.00
20 4 30 3 197.60	19.96	4.34	52.69	999.00		18.08	5.00		190.60	10.15	10.62	53.95	999.00	-1.22	999.00	-0.81	0.00
20 4 30 4 194.90	17.78	5.11	52.09	999.00		16.02	6.30		188.50	8.86	10.77	53.41	999.00	-1.32	999.00	-0.89	0.00
20 4 30 5 183.10	18.87	4.09	51.61	999.00		17.37	4.63		177.70	7.96	13.28	52.90	999.00	-1.28	999.00	-0.86	0.01
20 4 30 6 179.70	16.89	4.42	51.45	999.00		15.36	5.65	51.92	173.30	7.43	13.24	52.82	999.00	-1.29	999.00	-0.82	0.00
20 4 30 7 177.80	15.40	6.26	51.33	999.00	169.50	13.78	6.78	51.80	171.10	7.35	12.91	52.70	999.00	-1.39	999.00	-0.92	0.00
20 4 30 8 163.20	14.36	4.94	51.18	999.00	154.50	12.98	5.66	51.67	156.50	7.11	13.61	52.68	999.00	-1.62	999.00	-1.11	0.00
20 4 30 9 246.90	16.41	5.98	46.54	999.00	240.70	15.69	6.46	47.04	235.20	11.70	9.48	48.17	999.00	-1.51	999.00	-0.97	0.00
20 4 30 10 250.30	16.73	6.34	42.79	999.00	245.20	16.22	6.52	43.39	241.20	12.97	10.08	43.87	999.00	-0.87	999.00	-0.23	0.00
20 4 30 11 236.40	12.97	8.18	42.41	999.00	230.00	12.39	8.49	43.02	225.50	9.28	12.09	43.75	999.00	-1.77	999.00	-1.18	0.00
20 4 30 12 232.90	14.61	6.44	44.57	999.00	225.90	13.91	7.59	45.22	219.10	10.37	13.32	46.04	999.00	-1.18	999.00	-0.49	0.00
20 4 30 13 248.60	13.98	8.33	45.51	999.00	242.90	13.69	8.23	46.34	234.10	10.42	10.71	46.88	999.00	-1.45	999.00	-0.73	0.00
20 4 30 14 242.80	13.00	6.11	44.91	999.00	238.50	12.63	6.59	45.56	232.70	10.16	9.76	46.39	999.00	-1.47	999.00	-0.91	0.00
20 4 30 15 222.70	11.15	7.59	44.00	999.00	219.00	10.94	7.54	44.59	216.30	8.46	12.24	45.98	999.00	-2.62	999.00	-2.04	0.00
20 4 30 16 210.30	12.40	7.62	45.32	999.00	204.40	12.25	8.33	45.96	202.20	8.35	15.40	48.06	999.00	-3.03	999.00	-2.30	0.00
20 4 30 17 230.20	12.52	8.35	46.39	999.00	224.30	11.84	9.72	46.98	223.80	9.61	13.05	49.40	999.00	-3.03	999.00	-2.46	0.00
20 4 30 18 235.80	8.48	9.54	46.91	999.00	229.30	8.06	10.28		225.30	7.14	11.66	49.26	999.00	-1.40	999.00	-0.79	0.00
20 4 30 19 233.20	5.85	11.07	47.27	999.00		5.61	10.90		225.90	4.67	10.38	48.81	999.00	-1.87		-1.30	0.00
20 4 30 20 254.30	4.62	11.46	47.73	999.00	249.30	4.51	11.78		245.20	3.39	15.04	49.47	999.00	-1.63	999.00	-1.08	0.00
20 4 30 21 222.10	5.20	5.22	47.89	999.00	214.70	5.23	5.65		214.70	3.28	11.39	49.45	999.00	-1.53	999.00	-1.00	0.00
20 4 30 22 260.50	7.14	6.84	47.54	999.00	253.50	7.05	8.00	48.04		5.67	11.59	48.99	999.00	-1.60	999.00	-1.08	0.00
20 4 30 23 303.40	8.68	3.48		999.00		8.08	2.71		267.40	5.29	8.68		999.00		999.00	-0.75	0.00
20 4 30 24 322.80				999.00			20.04		295.30				999.00		999.00		0.03
																-0.40 -0.81	
20 5 1 1 352.40 20 5 1 2 39.59	25.54	6.12		999.00		23.98	6.73		339.80		11.26		999.00		999.00 999.00	-0.81	0.00
	20.18	4.82		999.00	35.79	15.15	6.59	45.28	42.26	15.96	9.97		999.00			-0.63	0.00
20 5 1 3 28.55	11.50	9.94		999.00	24.20	10.12	10.51	44.77		9.73	11.02		999.00		999.00	-0.65	0.00
20 5 1 4 0.78	17.96	7.48		999.00		16.92	8.29		355.10	12.58	12.32		999.00		999.00	-0.66	0.00
20 5 1 5 358.70	21.60	3.56		999.00		20.39	4.32		354.80	15.45	7.83		999.00		999.00	-0.48	0.00
20 5 1 6 353.30	19.13	4.04		999.00		18.55	4.34		348.20	13.78	9.25		999.00		999.00	-0.15	0.00
20 5 1 7 358.10	23.87	3.61		999.00		22.77	4.50		352.60	16.49	8.41		999.00		999.00	-0.23	0.00
20 5 1 8 2.27	16.32	5.44	43.81	999.00	356.70	15.86	6.12	44.56	355.00	12.44	9.51	45.00	999.00	-1.25	999.00	-0.52	0.00

00 F 1 0 227 20	12 60 5	25 44 20	000 00 221 00	12 20	F 01	45 10	200 00	10 07	10 70	45 04	000 00	1 00	000 00	0 00	0 00
20 5 1 9 337.30	13.60 5.		999.00 331.00	13.20	5.21	45.19		10.07	10.78		999.00		999.00	-0.92	0.00
20 5 1 10 333.30	14.58 6.		999.00 328.50	14.22	6.94	45.99		10.95	11.29	47.19	999.00	-2.35	999.00	-1.39	0.00
20 5 1 11 318.10 20 5 1 12 317.00	14.11 6.		999.00 311.90	14.21	7.36	46.36		10.61	13.14	48.70	999.00	-3.18	999.00	-2.84	0.00
	11.13 8.		999.00 312.30	11.07	9.26	47.25 3 49.22 3		8.86	18.10	49.38	999.00	-3.07	999.00	-2.01	0.00
	7.68 16.		999.00 308.10	7.65	15.37			6.22	24.36	52.26	999.00	-3.21	999.00	-2.61	0.00
	7.99 15.		999.00 335.00 999.00 309.80	8.11 8.62	14.05 13.79	51.75 5 53.85 5		6.68	21.25 24.03	54.29	999.00	-1.86	999.00	-1.03	0.00
	8.85 14. 8.42 13.		999.00 309.80 999.00 312.50	8.63	13.79	55.68		7.53	26.78	56.28 58.29	999.00 999.00	-3.60 -3.36	999.00 999.00	-2.91 -2.75	0.00
20 5 1 16 317.90 20 5 1 17 332.60	8.42 13. 7.58 13.		999.00 312.30	7.59	12.05	57.59		6.90 6.07	18.22	59.67	999.00	-2.82	999.00	-2.73 -2.14	0.00
			999.00 327.00	3.83	26.92	58.93	24.17	3.93	25.88	59.73	999.00	-1.37	999.00	-0.80	0.00
20 5 1 18 359.40 20 5 1 19 54.06	4.49 23. 3.71 18.		999.00 4.26	3.76	13.89	58.97	87.30	4.69	12.28	59.46	999.00	-0.68	999.00	-0.45	0.00
20 5 1 20 73.10	2.38 22.		999.00 121.80	2.60	39.08	58.44		3.08	15.18	58.14	999.00	0.09	999.00	-0.43	0.00
20 5 1 20 75.10	4.31 5.		999.00 108.50	4.46	9.05	57.79		2.64	16.85	57.47	999.00	0.47	999.00	0.59	0.00
20 5 1 22 141.70	5.93 4.		999.00 141.50	6.22	5.30	57.99		2.89	9.42	56.86	999.00	1.66	999.00	1.85	0.00
20 5 1 23 150.50	8.12 2.		999.00 148.90	8.15	3.50	58.04		2.99	6.92	55.48	999.00	2.61	999.00	2.88	0.00
20 5 1 24 169.10	11.41 1.		999.00 168.40	11.64	1.35	57.65		2.60	9.76	54.63	999.00	3.23	999.00	3.30	0.00
20 5 2 1 179.90	13.59 0.		999.00 172.00	13.71	0.89	57.47		3.32	8.70	54.38	999.00	3.26	999.00	2.45	0.00
20 5 2 2 179.20	16.61 0.		999.00 174.90	14.52	1.30	57.04		4.30	11.13	54.55	999.00	3.42	999.00	1.91	0.00
20 5 2 3 213.50	14.51 1.		999.00 206.70	11.27	2.61	57.04		3.38	11.07	54.55	999.00	0.36	999.00	0.26	0.00
20 5 2 4 209.80	18.29 2.		999.00 202.90	14.37	2.91	54.56		4.98	10.55	54.05	999.00	0.98	999.00	0.53	0.00
20 5 2 5 196.10	17.13 3.		999.00 187.70	14.20	4.24	54.37		5.83	12.39	54.03	999.00	-0.01	999.00	0.03	0.00
20 5 2 6 194.60	15.90 3.		999.00 186.10	13.43	4.38	53.86		5.58	10.93	53.95	999.00	0.07	999.00	0.07	0.00
20 5 2 7 199.90	17.50 2.		999.00 189.90	14.55	3.04	53.01		5.14	11.98	52.62	999.00	0.49	999.00	0.25	0.00
20 5 2 8 196.30	18.26 3.		999.00 187.60	15.31	4.52	53.17		8.61	10.49	53.25	999.00	-0.94	999.00	-0.66	0.00
20 5 2 9 193.70	16.98 6.		999.00 187.80	15.39	6.83	53.17		9.87	11.32	53.25	999.00	-2.14	999.00	-1.19	0.00
20 5 2 10 191.50	19.67 4.		999.00 184.50	17.49	5.82	57.32		9.40	11.19	58.32	999.00	-1.48	999.00	-1.01	0.00
20 5 2 11 192.20	20.70 6.		999.00 185.00	19.25	7.34	59.13		11.43	12.01	60.28	999.00	-1.98	999.00	-1.24	0.00
20 5 2 12 186.60	21.98 6.		999.00 178.80	21.11	6.80	59.13	181.20	11.56	14.31	60.28	999.00	-2.32	999.00	-1.46	0.00
20 5 2 13 200.90	26.44 6.	96 64.79	999.00 194.80	24.93	7.90	65.71	195.10	15.43	13.25	67.20	999.00	-2.58	999.00	-1.65	0.00
20 5 2 14 209.80	25.74 6.	40 66.44	999.00 204.90	23.95	7.77	67.11	202.30	14.33	14.39	68.74	999.00	-2.04	999.00	-1.46	0.00
20 5 2 15 207.20	28.16 5.	18 67.86	999.00 201.90	26.87	5.44	68.50	199.10	15.89	13.22	70.15	999.00	-2.31	999.00	-1.67	0.00
20 5 2 16 213.10	26.07 6.	22 70.86	999.00 207.40	24.27	7.07	71.44	205.80	14.79	13.17	73.28	999.00	-2.49	999.00	-1.91	0.00
20 5 2 17 213.70	26.02 5.	66 74.27	999.00 207.40	24.22	6.01	74.85	206.00	13.15	12.59	76.40	999.00	-1.66	999.00	-1.13	0.00
20 5 2 18 240.90	25.13 4.	44 76.64	999.00 235.30	23.09	5.68	77.08	228.50	15.56	8.27	77.52	999.00	-0.40	999.00	-0.01	0.00
20 5 2 19 271.60	20.75 5.	99 77.24	999.00 267.10	18.60	6.87	77.64	252.30	11.46	10.07	77.50	999.00	-0.67	999.00	-0.29	0.00
20 5 2 20 278.00	17.80 7.	62 76.71	999.00 272.10	15.48	8.26	77.09	261.50	9.31	10.98	77.43	999.00	-0.56	999.00	-0.24	0.00
20 5 2 21 301.80	16.28 5.	14 76.71	999.00 297.00	14.27	5.94	77.09	287.60	6.85	10.12	77.43	999.00	0.50	999.00	0.81	0.00
20 5 2 22 300.90	19.33 4.		999.00 295.70	16.41	4.51	72.99		8.42	9.18	72.30	999.00	0.54	999.00	0.79	0.00
20 5 2 23 329.80	22.50 2.		999.00 323.00	18.62	4.29	69.75		9.23	9.73	69.43	999.00	0.99	999.00	0.68	0.00
20 5 2 24 305.90	13.94 3.		999.00 297.20	11.70	3.57	69.75		4.56	5.91	69.43	999.00	1.71	999.00	1.88	0.00
20 5 3 1 296.50	12.13 3.		999.00 286.40	10.85	2.36	67.89		4.56	3.70	66.69	999.00	0.99	999.00	1.20	0.00
20 5 3 2 281.30	11.97 4.		999.00 266.30	10.80	6.16		219.10	3.96	8.70	65.19	999.00	2.89	999.00	2.78	0.00
20 5 3 3 284.50	18.37 1.		999.00 273.20	16.55	2.30	67.65		6.29	8.44		999.00		999.00	2.81	0.00
20 5 3 4 273.50				16.70	2.71	64.96		7.31			999.00		999.00	1.03	0.00
20 5 3 5 264.00	19.18 2.		999.00 254.10	16.06	3.61	63.71		7.70	5.73		999.00		999.00	0.82	0.00
20 5 3 6 262.10	17.72 5.		999.00 252.80	14.35	5.29	63.38		6.50	7.74		999.00		999.00	1.14	0.00
20 5 3 7 263.00	17.04 2.		999.00 253.10	14.05	3.15	62.03		5.82	5.43		999.00		999.00	1.39	0.00
20 5 3 8 265.50	16.74 2.		999.00 256.10	14.16	4.65	61.02		8.66	8.21		999.00		999.00	-0.66	0.00
20 5 3 9 268.00	13.04 7.		999.00 261.90	12.07	7.99	61.53		9.67	10.27		999.00		999.00	-1.60	0.00
20 5 3 10 299.80	9.59 7.		999.00 295.30	9.48	8.13	63.76		8.25	13.44		999.00		999.00	-2.30	0.00
20 5 3 11 309.80	7.67 14.		999.00 311.50	7.64	14.70	65.06		6.56	20.39		999.00		999.00	-2.33	0.00
20 5 3 12 324.30	4.64 40.	41 66./9	999.00 329.80	4.72	27.99	67.51	333.30	4.08	28.68	/0.06	999.00	-2.80	999.00	-1.88	0.00

00 5 0 10	226 12		0 0 5	65.06	000 00	000 40	E 00	0 11	60.65	0.5.5		10 00	60 54	000 00	1 00	00000	0 5 6	0 00
20 5 3 13		7.14	9.05		999.00		7.20	9.11		357.00	6.64	10.37		999.00		999.00	-0.56	0.00
	348.40	9.24	8.85	68.77	999.00	349.90	8.55	10.14	69.45	4.14	8.43	9.36	70.22	999.00	-1.20	999.00	-0.61	0.00
	339.60	11.89	9.46	69.53	999.00	339.90	11.00	10.64		354.00	9.09	16.18	70.73	999.00	-1.80	999.00	-1.06	0.00
	331.60	14.16	8.74	69.90	999.00	331.00	13.14	9.91		339.90	10.71	13.57	72.05	999.00	-2.11	999.00	-1.52	0.00
	308.50	19.66	8.72	70.44	999.00	306.60	18.26	7.44	70.68	306.50	10.79	13.28	71.85	999.00	-0.55	999.00	-0.52	0.00
	309.80	20.05	3.98	69.68	999.00	306.30	18.90	3.84		302.00	10.36	12.25	70.42	999.00	-0.37	999.00	-0.13	0.00
	293.90	16.18	5.66	68.54	999.00	288.90	15.04	6.49		275.20	9.44	9.62	69.14	999.00	-0.67	999.00	-0.23	0.00
	308.30	20.39	6.06	67.52	999.00	302.70	18.49	6.75		287.10	10.30	14.57	67.91	999.00	-0.18	999.00	0.21	0.00
	316.50	29.44	3.41	64.32	999.00	310.10	25.80	4.53	64.35	300.20	13.07	12.25	64.40	999.00	0.46	999.00	0.32	0.00
	299.20	17.55	3.54	62.65	999.00	292.20	15.47	3.48		269.60	7.88	8.88	61.77	999.00	0.89	999.00	1.18	0.00
	301.50	19.60	2.85	61.93	999.00	292.60	17.57	2.31	62.07	262.80	8.01	8.23	59.79	999.00	2.25	999.00	2.31	0.00
20 5 3 24	303.90	23.18	1.92	61.28	999.00	293.70	19.00	2.50	60.93	263.00	7.64	6.89	58.17	999.00	4.01	999.00	3.20	0.00
20 5 4 1	49.61	17.23	6.60	53.18	999.00	45.78	16.34	7.62	53.21	51.75	15.67	9.51	53.00	999.00	-1.95	999.00	-1.35	0.00
20 5 4 2	40.18	18.86	4.60	47.21	999.00	36.52	14.93	6.25	47.79	44.95	16.37	10.45	49.15	999.00	-1.98	999.00	-1.39	0.00
20 5 4 3	36.21	13.12	8.49	45.53	999.00	33.81	11.02	9.89	46.10	37.74	11.16	11.83	47.45	999.00	-1.88	999.00	-1.30	0.00
20 5 4 4	10.18	12.33	7.36	45.29	999.00	3.78	11.72	7.28	45.87	5.64	9.77	11.23	47.15	999.00	-1.84	999.00	-1.24	0.00
20 5 4 5	9.39	12.89	6.74	45.49	999.00	2.90	12.80	4.95	46.09	359.80	10.99	7.74	47.32	999.00	-1.80	999.00	-1.21	0.00
20 5 4 6	0.46	20.49	5.15	45.27	999.00	355.90	19.73	5.97	45.85	356.10	15.68	9.69	47.05	999.00	-1.86	999.00	-1.28	0.00
20 5 4 7	351.50	18.62	4.80	44.27	999.00	345.20	17.88	5.40	44.84	340.60	13.28	10.31	45.98	999.00	-1.70	999.00	-1.13	0.00
20 5 4 8	5.93	20.56	5.63	43.32	999.00	0.90	19.20	6.63	43.87	0.21	16.52	10.45	45.29	999.00	-2.12	999.00	-1.59	0.00
20 5 4 9	2.91	17.62	5.68	42.86	999.00	357.40	17.00	5.96	43.38	358.90	14.91	9.30	45.03	999.00	-2.23	999.00	-1.73	0.00
20 5 4 10	7.57	16.14	7.03	42.86	999.00	2.05	15.22	8.10	43.32	0.69	14.71	9.44	45.00	999.00	-2.14	999.00	-1.62	0.00
20 5 4 11	9.37	12.67	12.44	43.28	999.00	6.15	12.00	11.74	43.78	5.89	11.99	13.99	45.29	999.00	-1.88	999.00	-1.34	0.00
20 5 4 12	8.87	12.81	12.99	43.28	999.00	1.76	12.69	12.41	43.78	2.93	12.02	13.75	45.29	999.00	-1.76	999.00	-1.33	0.00
20 5 4 13	2.38	8.89	15.22	44.91	999.00	353.70	8.65	14.53	45.41		7.19	21.74	46.83	999.00	-2.16	999.00	-1.59	0.00
20 5 4 14	34.91	7.12	16.85	45.87	999.00	31.33	6.09	16.10	46.40	27.07	7.04	20.00	47.63	999.00	-1.46	999.00	-0.99	0.00
20 5 4 15	77.40	6.08	19.00	46.28	999.00	67.23	6.23	19.45	46.83	52.01	5.60	60.51	48.23	999.00	-2.27	999.00	-1.52	0.00
	105.20	8.52	13.20	46.82	999.00	103.10	8.25	13.62		108.20	6.79	21.53	49.77	999.00	-2.91	999.00	-2.19	0.00
	115.00	9.54	10.89	46.57	999.00	111.90	9.56	11.26		121.90	7.07	21.02	49.60	999.00	-3.08	999.00	-2.19	0.00
	114.90	10.43	7.07	47.03		108.00	10.42	8.78		115.40	7.58	13.95	49.83	999.00	-2.54	999.00	-1.97	0.00
	106.20	12.18	5.44	47.37	999.00	100.60	11.91	6.84		103.60	8.46	14.47	49.78	999.00	-2.22	999.00	-1.64	0.00
	107.40	10.57	5.49	47.39	999.00		9.90	8.02		105.80	6.35	13.77	49.25	999.00	-1.62	999.00	-1.09	0.00
	124.70	9.75	8.65	47.72		120.60	9.34	8.06		133.80	6.09	13.64	49.27	999.00	-1.51	999.00	-0.96	0.00
	119.80	14.27	5.42	47.26	999.00	113.70	13.96	5.85		119.90	8.69	12.92	48.84	999.00	-1.57	999.00	-1.05	0.00
	103.80	14.87	4.50	46.20	999.00	98.10	14.52	5.85		103.50	7.90	15.74	47.82	999.00	-1.64	999.00	-1.09	0.00
20 5 4 24	98.50	16.29	5.13	46.20	999.00	92.90	16.00	5.91	46.75	100.20	9.60	14.62	47.82	999.00	-1.65	999.00	-1.10	0.00
20 5 5 1	92.10	16.66	5.99	45.09	999.00	86.00	16.11	6.70	45.66	90.20	10.44	14.50	46.79	999.00	-1.64	999.00	-1.06	0.00
20 5 5 2	79.40	16.93	5.69	43.97	999.00	73.10	16.31	6.61	44.54	77.30	11.80	10.26	45.64	999.00	-1.58	999.00	-1.04	0.00
20 5 5 3	74.80	17.75	4.64	43.16	999.00	70.10	17.01	5.89	43.69	77.40	11.44	10.98	44.65	999.00	-1.42	999.00	-0.89	0.00
20 5 5 4	73.00	20.59	4.19	42.49	999.00	68.00	19.88	4.84	43.03	77.50	12.79	11.56	44.04	999.00	-1.63	999.00	-1.08	0.00
20 5 5 5	76.60	19.75	3.87	40.64	999.00	70.00	19.10	5.15	41.20	77.50	13.65	10.48	42.35	999.00	-1.70	999.00	-1.13	0.00
20 5 5 6	78.30	22.66	4.43	39.99	999.00	71.50	21.84	4.78	40.54	77.70	14.14	10.97	41.70	999.00	-1.71	999.00	-1.15	0.00
20 5 5 7	83.40	24.02	6.20		999.00	76.00	22.90	6.31	41.04	80.80	14.88	12.16		999.00	-1.75	999.00	-1.19	0.00
	98.70	24.83			999.00	92.70	24.34	6.04				14.89				999.00	-1.34	0.00
20 5 5 9		21.27	5.77		999.00	97.90	20.63	6.39		101.90		14.19		999.00		999.00	-1.48	0.00
	95.50	24.06	5.86		999.00	89.00	23.49	6.08	42.36	90.90	14.04	13.74		999.00		999.00	-1.97	0.00
20 5 5 11		20.45	6.78		999.00	97.50	19.35	7.79		100.70	11.01	16.28		999.00		999.00	-2.15	0.00
20 5 5 12	92.20	22.57	5.98		999.00	86.10	21.89	6.58	43.11	90.30	13.64	14.22		999.00		999.00	-2.08	0.00
20 5 5 13	85.90	20.35	6.03		999.00	80.30	20.27	5.72	43.23	87.10		12.50		999.00		999.00	-2.14	0.00
20 5 5 14	70.30	20.64	6.46		999.00	63.63	19.99	6.99	43.64	65.34	15.23	11.11		999.00		999.00	-1.88	0.00
20 5 5 15	60.78	22.03	6.56		999.00	55.10	21.29	6.92		55.43	16.23	12.26		999.00		999.00	-2.02	0.00
20 5 5 16	69.06	22.63	6.12	42.80	999.00	62.51	20.71	7.06	43.48	66.97	15.71	11.95	45.51	999.00	-2.82	999.00	-2.09	0.00

20 5 5 17 6	69.24 24.72	4 75	43.74	000 00	62.04	23.47	5.32	44.38	C7 F2	16.35	11.82	1.0 01	999.00	0 01	999.00	1 50	0.00
	69.24 24.72 71.30 16.13			999.00	62.94 64.86	15.90	6.68	44.30	67.53 69.43	12.19	11.77	46.79	999.00	-2.21	999.00	-1.59 -1.34	0.00
	73.40 13.11			999.00	66.45	12.74	6.68	45.78	70.90	9.41	12.44	47.12	999.00		999.00	-1.29	0.00
	75.90 14.24			999.00	69.98	13.64	6.34	45.31	73.10	10.25	11.48	46.54	999.00		999.00	-1.15	0.00
	49.58 14.36			999.00	44.53	13.17	8.37	45.52	43.69	12.54	11.73	46.71	999.00	-1.84	999.00	-1.26	0.00
	46.94 16.15			999.00	42.59	14.49	8.24	45.48	46.46	14.21	10.61	46.78	999.00		999.00	-1.30	0.00
	45.04 17.17			999.00	41.32	15.43	7.03	44.08	47.53	15.31	9.25	45.44	999.00	-1.91	999.00	-1.34	0.00
	42.50 15.74			999.00	38.16	13.62	9.10	43.51	42.79	14.29	11.38	44.86	999.00	-1.90	999.00	-1.35	0.00
	44.91 15.31			999.00	41.19	13.10	7.58	42.94	44.59	12.81	10.70	44.31	999.00	-1.95	999.00	-1.38	0.00
	33.61 15.11			999.00	29.89	12.45	9.44	42.44	31.50	12.44	11.23	43.76	999.00		999.00	-1.32	0.00
	23.39 13.27			999.00	18.85	11.73	12.94	42.44	26.12	11.45	14.88	43.76	999.00	-1.84	999.00	-1.29	0.00
	22.26 13.78			999.00	16.93	12.52	12.65	41.91	18.88	12.36	13.79	43.23	999.00	-1.87	999.00	-1.31	0.00
20 5 6 5	9.00 16.00			999.00	3.26	15.28	6.53	41.60	359.60	13.62	9.75	42.90	999.00	-1.88	999.00	-1.30	0.00
	7.16 19.32			999.00	1.36	18.35	5.18	41.40	358.80	15.32	10.04	42.67	999.00	-1.89	999.00	-1.33	0.00
20 5 6 7	7.77 16.79			999.00	2.36	15.53	6.91	41.10	359.20	13.70	9.73	42.43	999.00		999.00	-1.34	0.00
	10.53 15.33			999.00	5.00	14.42	10.22	41.07	6.11	12.76	11.88	42.46	999.00	-1.94	999.00	-1.39	0.00
20 5 6 9	5.77 16.71			999.00	359.80	16.26	4.86	41.29	0.64	14.11	9.33	42.75	999.00	-1.95	999.00	-1.49	0.00
20 5 6 10	5.79 15.87			999.00	359.90	15.20	7.69	41.97	359.20	13.78	11.55	43.59	999.00	-2.04	999.00	-1.65	0.00
20 5 6 11	4.97 14.60	7.13	42.58	999.00	1.04	14.14	7.64	43.03	4.55	13.15	11.58	44.55	999.00	-1.80	999.00	-1.43	0.00
20 5 6 12	3.99 17.07	6.19	44.05	999.00	358.80	16.42	7.92	44.48	357.90	15.58	11.66	46.05	999.00	-2.10	999.00	-1.60	0.00
20 5 6 13	7.54 12.77	8.68	46.37	999.00	3.52	12.44	8.54	46.73	8.18	12.16	15.55	48.08	999.00	-1.62	999.00	-1.28	0.00
20 5 6 14 35	55.50 13.57	5.65	48.34	999.00	349.10	13.44	5.70	48.86	350.60	11.93	11.23	50.24	999.00	-1.90	999.00	-1.35	0.00
20 5 6 15 1	10.74 9.34	13.35	49.98	999.00	8.88	8.61	14.61	50.45	14.29	7.75	18.19	51.76	999.00	-1.63	999.00	-1.19	0.00
20 5 6 16 6	69.40 7.26	15.17	51.21	999.00	65.62	7.09	14.85	51.81	53.31	6.37	18.95	53.46	999.00	-2.68	999.00	-1.92	0.00
20 5 6 17 1	10.89 5.20	19.57	52.42	999.00	6.62	5.26	24.87	53.06	357.50	4.63	32.77	54.74	999.00	-1.73	999.00	-1.19	0.00
20 5 6 18 7	72.30 4.58	29.06	54.08	999.00	67.19	4.28	30.40	54.68	74.40	3.74	30.78	55.61	999.00	-1.71	999.00	-0.97	0.00
20 5 6 19 12	27.90 6.38	9.02	52.87	999.00	126.40	6.56	9.52	53.56	142.90	5.22	19.04	55.28	999.00	-2.31	999.00	-1.89	0.00
20 5 6 20 13	31.80 5.29	8.36	52.87	999.00	128.60	5.14	8.06	53.56	144.50	3.36	18.63	55.28	999.00	-1.59	999.00	-1.07	0.00
20 5 6 21 12	24.20 5.57	4.70	52.68	999.00	119.80	5.42	4.68	53.18	160.10	2.34	12.12	53.78	999.00	-0.79	999.00	-0.30	0.00
20 5 6 22 14		3.52	52.56	999.00	150.00	6.89	2.10	52.95	165.30	3.08	9.51	52.38	999.00	1.19	999.00	1.55	0.00
20 5 6 23 18				999.00		8.97	4.28		193.00	3.00	8.29	50.43	999.00		999.00	2.64	0.00
20 5 6 24 20				999.00		10.62	2.70		211.50	2.39	12.20	48.67	999.00	4.38	999.00	4.36	0.00
20 5 7 1 24					236.60	12.80	2.36		193.70	3.91	9.79	47.75	999.00	4.18	999.00	2.95	0.00
	57.60 13.57				237.40	12.99	3.05		200.30	4.45	8.66	47.75	999.00	4.50	999.00	3.10	0.00
20 5 7 3 29					274.20	14.08	3.83		223.50	5.54	6.29	45.94	999.00	4.53	999.00	3.11	0.00
20 5 7 4 28					260.80	13.88	4.07		222.00	5.78	7.63	44.60	999.00	4.18	999.00	1.84	0.00
	83.70 15.45			999.00	270.20	15.51	5.84		240.40	8.10	6.35	44.01	999.00	3.11	999.00	2.63	0.00
	63.00 15.06				246.30	14.66	4.25		223.30	6.85	9.03	43.27	999.00	2.66	999.00	1.60	0.00
	50.60 18.72				234.70	15.59	2.34		208.50	5.50	11.14	40.80	999.00	2.96	999.00	1.45	0.00
	40.90 19.32				228.10	15.55	5.47		218.80	7.77	11.46	41.53	999.00	0.35	999.00	-0.47	0.00
	45.10 19.90				239.40	19.09	5.70		231.00	13.78	9.38	47.38	999.00	-2.23	999.00	-1.68	0.00
20 5 7 10 24					240.90	20.91	5.23		234.30	16.25	8.31	53.01	999.00	-2.56	999.00	-2.03	0.00
20 5 7 11 24			53.65			23.26	5.70		232.80	16.64	9.89		999.00		999.00	-2.21	0.00
20 5 7 12 26			57.78				8.32		249.50		12.18			-2.74		-2.18	0.00
20 5 7 13 28			61.07			30.08	11.86		263.90		14.09		999.00		999.00	-2.47 -2.24	0.00
20 5 7 14 28 20 5 7 15 28			61.75 9 61.77 9			32.71	11.94		265.30	24.08	14.88		999.00		999.00	-2.24	0.00
						33.29	9.48		265.30	24.21	12.64		999.00	-2.91 -3.10		-2.30 -2.44	0.00
20 5 7 16 29 20 5 7 17 29			61.73			31.18	11.62 5.62		277.80	23.19	13.04 10.02		999.00 999.00	-3.10 -2.78	999.00	-2.44 -2.13	0.00
20 5 7 17 29			61.04 9 59.94 9			33.66 26.04	10.82		277.90 275.20	25.73 19.99	15.88		999.00		999.00	-2.13 -1.92	0.00
20 5 7 19 29			58.51			29.82	5.96		282.30	21.38	11.24		999.00	-2.46		-1.55	0.00
20 5 7 20 32			56.85			22.35		57.35		14.67	9.60		999.00		999.00	-0.78	0.00
20 J 1 20 32	20.00 24.04	4.34	30.03	222.UU	JZU.1U	22.33	5.19	57.55	J14.4U	14.0/	9.00	J0.40	222.00	-1.23	222.UU	-0.70	0.00

00 5 5 01 000 40	04.00 4.16	56 05 000 00 005 10	00 01 4 65	55 05 010 00	11 50 10 05	50 40 000 00	0 00 000 00	0.01
20 5 7 21 333.40	24.03 4.16	56.85 999.00 327.10		57.35 318.20	11.70 10.25	58.40 999.00	-0.30 999.00	-0.01 0.00
20 5 7 22 344.90	24.99 4.30	53.92 999.00 339.10		54.21 334.20	12.41 10.42	54.34 999.00	-0.57 999.00	-0.22 0.00
20 5 7 23 354.70	19.58 19.80	52.48 999.00 348.30		52.87 338.60	12.24 28.40	53.15 999.00	-0.90 999.00	-0.50 0.00
20 5 7 24 67.71	22.75 5.19	46.81 999.00 60.65		47.37 64.84	14.96 13.25	48.57 999.00	-1.70 999.00	-1.15 0.00
20 5 8 1 92.00	17.63 4.44	45.25 999.00 85.00		45.76 91.70	10.33 13.39	46.73 999.00	-1.46 999.00	-0.95 0.00
20 5 8 2 96.20	15.26 4.42	45.41 999.00 87.80		45.94 93.20	8.56 13.51	46.95 999.00	-1.60 999.00	-1.06 0.00
20 5 8 3 92.10	14.38 4.69	45.48 999.00 85.10		46.03 88.80	8.88 14.16	47.06 999.00	-1.56 999.00	-1.03 0.00
20 5 8 4 63.76	19.94 5.95	44.55 999.00 57.06		45.11 60.03	13.16 12.96	46.21 999.00	-1.81 999.00	-1.23 0.00
20 5 8 5 70.10	21.62 5.65	40.97 999.00 63.10		41.55 68.48	13.37 11.35	42.77 999.00	-1.70 999.00	-1.10 0.00
20 5 8 6 73.60	22.46 4.65	40.52 999.00 67.12		41.07 73.30	14.76 12.13	42.20 999.00	-1.69 999.00	-1.13 0.00
20 5 8 7 76.30	21.83 6.15	40.42 999.00 69.83		40.98 78.80	14.02 12.07	42.11 999.00	-1.70 999.00	-1.13 0.00
20 5 8 8 61.76	21.90 7.73	39.95 999.00 56.05		40.54 60.32	15.21 11.72	41.84 999.00	-1.94 999.00	-1.33 0.00
20 5 8 9 57.09	24.05 6.53	39.00 999.00 51.72		39.60 52.40	19.20 10.15	41.13 999.00	-2.20 999.00	-1.60 0.00
20 5 8 10 48.68	22.23 7.63	38.43 999.00 43.71	20.23 8.31	39.07 48.80	18.53 11.36	40.63 999.00	-2.25 999.00	-1.62 0.00
20 5 8 11 36.05	24.30 5.20	37.82 999.00 32.38	18.20 6.15	38.42 38.51	20.39 11.03	40.09 999.00	-2.35 999.00	-1.79 0.00
20 5 8 12 19.02	18.76 11.42	37.80 999.00 13.22	17.53 11.50	38.35 13.41	17.14 12.84	40.00 999.00	-2.09 999.00	-1.64 0.00
20 5 8 13 15.99	16.39 12.43	38.68 999.00 11.55	15.02 13.32	39.17 12.83	14.59 14.67	40.70 999.00	-1.99 999.00	-1.49 0.00
20 5 8 14 13.64	16.90 10.76	38.50 999.00 7.54		39.00 5.45	14.63 13.42	40.64 999.00	-2.19 999.00	-1.65 0.00
20 5 8 15 18.83	11.69 12.53	38.06 999.00 11.63	11.21 11.40	38.58 5.37	11.24 10.65	40.06 999.00	-1.85 999.00	-1.36 0.00
20 5 8 16 58.91	11.13 15.01	38.06 999.00 51.56	10.79 15.28	38.58 55.95	9.14 21.73	40.06 999.00	-2.10 999.00	-1.52 0.00
20 5 8 17 355.90	25.40 6.99	40.17 999.00 350.00		40.76 349.40	19.33 11.56	42.33 999.00	-2.38 999.00	-1.73 0.00
20 5 8 18 358.50	23.07 13.45	40.28 999.00 353.00		40.89 351.90	19.20 18.13	42.66 999.00	-2.35 999.00	-1.76 0.00
20 5 8 19 47.39	20.37 9.33	38.63 999.00 44.61	17.86 9.96	39.19 46.59	17.36 11.74	40.70 999.00	-2.17 999.00	-1.58 0.00
20 5 8 20 31.49	17.30 8.88	36.65 999.00 27.94		37.26 25.17	15.14 13.98	38.73 999.00	-2.10 999.00	-1.48 0.00
20 5 8 21 60.35	15.03 10.62	36.03 999.00 57.32		36.63 69.95	11.72 13.61	38.00 999.00	-1.77 999.00	-1.19 0.00
20 5 8 22 359.10	18.27 21.08	37.00 999.00 353.00		37.57 351.40	12.74 22.68	38.90 999.00	-1.71 999.00	-1.17 0.00
20 5 8 23 17.47	9.05 15.80	36.33 999.00 11.01	8.22 14.49	36.89 11.72	8.35 16.51	38.28 999.00	-1.91 999.00	-1.33 0.00
20 5 8 24 353.70	22.30 7.44	36.75 999.00 348.10		37.32 346.50	15.95 10.97	38.59 999.00	-1.85 999.00	-1.28 0.00
20 5 9 1 351.20	19.10 5.11	36.75 999.00 346.00		37.32 343.10	13.53 10.46	38.59 999.00	-1.72 999.00	-1.16 0.00
20 5 9 2 336.20	17.55 5.79	34.90 999.00 330.20		35.44 322.70	11.50 10.88	36.32 999.00	-1.16 999.00	-0.65 0.00
20 5 9 3 331.90	17.93 6.34	33.85 999.00 325.80		34.38 316.00	11.83 12.21	34.99 999.00	-1.14 999.00	-0.61 0.00
20 5 9 4 317.80	17.98 7.65	32.80 999.00 312.10		33.31 299.50	9.48 13.28	33.81 999.00	-0.99 999.00	-0.49 0.00
20 5 9 5 304.10	15.56 8.34	31.60 999.00 297.20		32.04 280.00	9.77 12.57	32.26 999.00	-0.71 999.00	-0.26 0.00
20 5 9 6 324.00	18.46 7.74	30.65 999.00 318.00		31.16 311.60	11.89 12.26	32.10 999.00	-1.49 999.00	-0.97 0.00
20 5 9 7 316.70	21.00 9.51	30.20 999.00 312.30		30.75 305.10	14.02 15.71	31.84 999.00	-1.67 999.00	-1.13 0.00
20 5 9 8 287.40	17.23 5.65	29.21 999.00 279.00		29.71 260.70	11.04 10.81	30.94 999.00	-1.80 999.00	-1.35 0.00
20 5 9 9 303.10	19.52 8.41	29.65 999.00 297.30		30.21 280.70	14.80 11.43	31.73 999.00	-2.23 999.00	-1.67 0.00
20 5 9 10 302.10	21.55 7.69	31.45 999.00 296.90		32.06 285.10	16.28 15.10	34.25 999.00	-2.99 999.00	-2.41 0.00
20 5 9 11 306.60	19.10 9.78	33.58 999.00 301.30		34.22 294.20	14.23 16.93	36.86 999.00	-3.48 999.00	-2.84 0.00
20 5 9 12 302.60	21.24 7.61	36.16 999.00 298.00		36.80 288.50	15.51 13.46	39.40 999.00	-3.36 999.00	-2.70 0.00
20 5 9 13 304.90	17.39 11.37	38.37 999.00 299.40		39.00 290.50	12.62 16.96	41.59 999.00	-3.42 999.00	-2.78 0.00
20 5 9 14 295.40	20.36 6.48	40.13 999.00 291.60		40.73 283.90	15.50 13.44	43.06 999.00	-2.73 999.00	-2.12 0.00
20 5 9 15 277.40	24.40 7.05	41.78 999.00 274.30		42.34 265.60	17.47 12.36	44.35 999.00	-2.43 999.00	-1.87 0.00
20 5 9 16 270.70	22.00 12.46			44.31 259.30		46.39 999.00	-2.44 999.00	-1.87 0.00
20 5 9 17 265.10	21.93 8.60	45.33 999.00 260.10			15.94 12.58	48.12 999.00	-2.47 999.00	-1.89 0.00
20 5 9 18 288.20	22.93 8.89	47.18 999.00 283.30			15.51 15.35	49.45 999.00	-2.14 999.00	-1.56 0.00
20 5 9 19 291.50	23.04 9.01	48.38 999.00 287.60			16.99 11.22	50.82 999.00	-2.35 999.00	-1.84 0.00
20 5 9 20 288.30	22.80 6.99	48.76 999.00 284.00			14.41 11.60	50.49 999.00	-1.43 999.00	-0.91 0.00
20 5 9 21 292.60	19.82 4.54	48.25 999.00 287.10		48.66 273.10	9.67 9.46	48.84 999.00	0.08 999.00	0.41 0.00
20 5 9 22 275.30	17.39 2.50	47.51 999.00 266.10		47.61 250.10	7.36 9.88	46.98 999.00	0.84 999.00	0.86 0.00
20 5 9 23 255.90	17.79 1.99	46.82 999.00 246.40			6.62 8.45	45.32 999.00	1.59 999.00	0.92 0.00
20 5 9 24 247.80	17.33 2.82	46.20 999.00 238.40	14.57 3.40	45.68 223.70	6.51 8.37	45.12 999.00	0.87 999.00	0.49 0.00

00 5 10 1 000 50	10 00 0	06 46 00		45 55	0 50	46 11 000 50	0	44 54	45 40 000 00	1 55 000 00	0 50	0 00
20 5 10 1 239.70			999.00 227.30	15.57	2.50	46.11 220.50	5.58	11.74	45.12 999.00	1.57 999.00	0.73	0.00
20 5 10 2 227.10		.44 46.70	999.00 214.60	16.10	2.99	45.73 206.10	6.41	11.51	44.92 999.00	1.20 999.00	0.44	0.00
20 5 10 3 218.40		.82 44.51		16.72	3.55	44.19 201.80	6.35	13.44	43.96 999.00	0.96 999.00	0.57	0.00
20 5 10 4 235.50		.35 44.51		18.63	3.21	44.19 220.00	7.82	10.94	43.96 999.00	1.23 999.00	0.79	0.00
20 5 10 5 234.50		.91 43.41	999.00 223.70	17.53	2.99	42.93 210.60	6.53	11.86	42.13 999.00	1.57 999.00	0.95	0.00
20 5 10 6 222.00		.53 42.83	999.00 212.10	18.02	3.40	42.30 204.50	6.34	12.39	41.62 999.00	0.88 999.00	0.47	0.00
20 5 10 7 218.90		.42 41.83	999.00 209.90	18.09	4.58	41.41 204.60	7.21	12.68	41.16 999.00	0.13 999.00	-0.15	0.00
20 5 10 8 211.80		.62 42.41	999.00 205.10	19.06	4.29	42.43 203.40	9.78	12.30	42.88 999.00	-0.91 999.00	-0.72	0.00
20 5 10 9 218.50	19.22 5.	.35 43.89	999.00 212.60	17.36	6.61	44.28 210.90	9.46	12.65	45.27 999.00	-1.36 999.00	-0.92	0.00
20 5 10 10 213.40	18.77 6.	.97 46.40	999.00 206.90	17.04	7.90	46.89 206.30	8.91	16.21	48.25 999.00	-1.89 999.00	-1.36	0.00
20 5 10 11 214.10	18.87 5.	.96 48.78	999.00 208.00	17.05	7.37	49.31 207.80	9.71	15.40	50.72 999.00	-1.93 999.00	-1.38	0.00
20 5 10 12 217.50	20.94 6.	.79 51.34	999.00 212.00	19.28	8.02	51.95 212.80	12.41	13.44	53.44 999.00	-2.41 999.00	-1.80	0.00
20 5 10 13 211.60	23.77 6.	.85 50.91	999.00 206.10	21.96	8.26	51.92 207.10	11.93	15.00	53.24 999.00	-2.51 999.00	-1.36	0.00
20 5 10 14 239.40	28.38 5.	.29 52.01	999.00 233.50	26.60	5.61	52.81 227.60	17.80	10.20	54.31 999.00	-1.60 999.00	-1.02	0.02
20 5 10 15 187.80	16.18 8.	.68 49.94	999.00 180.20	15.64	9.31	50.74 183.50	9.54	18.20	52.03 999.00	-3.17 999.00	-2.08	0.00
20 5 10 16 185.80	12.69 11.	.71 52.79	999.00 177.60	12.05	11.47	53.74 180.70	7.97	17.97	55.75 999.00	-2.89 999.00	-1.95	0.04
20 5 10 17 262.40	31.26 5.	.94 49.83	999.00 257.40	27.76	6.93	50.13 252.30	17.82	10.08	51.57 999.00	-0.85 999.00	-0.77	0.12
20 5 10 18 240.80	13.41 7.	.04 44.98	999.00 234.30	12.76	8.23	45.09 227.30	9.28	13.51	46.56 999.00	-2.35 999.00	-2.47	0.00
20 5 10 19 249.20	10.98 7.	.33 47.55	999.00 243.70	10.60	6.49	47.52 236.00	7.57	9.81	48.92 999.00	-1.22 999.00	-1.15	0.00
20 5 10 20 296.10	15.71 6.	.72 46.00	999.00 293.10	13.74	7.22	45.78 283.70	8.14	11.26	46.79 999.00	-0.34 999.00	-0.53	0.00
20 5 10 21 253.70	15.17 6.	.84 45.83	999.00 247.70	12.96	7.56	45.53 236.50	7.31	10.26	45.94 999.00	0.45 999.00	0.13	0.00
20 5 10 22 261.50		.59 46.37	999.00 256.70	20.17	7.06	46.32 251.40	13.55	10.37	46.32 999.00	-0.45 999.00	-0.43	0.00
20 5 10 23 251.80		.47 44.68	999.00 246.50	20.76	4.82	44.96 240.70	15.08	8.49	45.87 999.00	-1.36 999.00	-1.03	0.00
20 5 10 24 257.50		.49 43.27	999.00 252.20	20.82	6.57	43.88 245.00	15.11	9.38	45.03 999.00	-1.78 999.00	-1.21	0.03
20 5 11 1 7.37		.60 43.27	999.00 2.27	25.68	5.83	43.88 1.10	22.12	7.91	45.03 999.00	-1.68 999.00	-1.25	0.01
20 5 11 2 356.40		.72 35.75	999.00 350.70	27.67	5.05	36.36 351.60	20.72	8.18	37.54 999.00	-1.75 999.00	-1.03	0.00
20 5 11 3 351.30		.61 34.77	999.00 345.90	27.32	6.87	35.51 344.80	19.92	11.19	36.52 999.00	-1.49 999.00	-0.75	0.01
20 5 11 4 325.20		.19 34.77	999.00 320.30	21.21	7.47	35.51 315.10	14.51	13.13	36.52 999.00	-1.63 999.00	-0.89	0.03
20 5 11 5 316.50		.81 35.26	999.00 311.00	23.82	6.14	35.90 305.10	14.77	12.93	36.60 999.00	-1.19 999.00	-0.56	0.00
20 5 11 6 315.60		.12 35.81		21.44	7.62	36.56 302.90	13.86	13.48	36.73 999.00	-0.85 999.00	-0.08	0.00
20 5 11 7 313.10		.57 35.81		20.22	7.21	36.56 294.30	13.48	11.83	36.73 999.00	-1.31 999.00	-0.64	0.00
20 5 11 8 302.00		.02 35.79	999.00 297.20	18.16	6.05	36.18 285.40	13.42	9.24	36.88 999.00	-1.16 999.00	-0.81	0.00
20 5 11 9 298.90		.13 35.55	999.00 293.20	15.35	8.81	35.88 282.20	10.96	9.70	36.97 999.00	-1.53 999.00	-1.14	0.00
20 5 11 10 291.70		.30 35.55	999.00 287.00	17.03	5.68	35.88 274.50	12.35	9.53	36.97 999.00	-1.77 999.00	-1.21	0.00
20 5 11 11 290.90		.28 35.65	999.00 285.30	15.34	7.39	36.22 278.10	11.86	10.84	37.59 999.00	-2.22 999.00	-1.62	0.00
20 5 11 12 294.20		.08 36.53	999.00 289.70	17.73	6.28	37.12 281.00	14.01	11.12	38.86 999.00	-2.18 999.00	-1.57	0.00
20 5 11 12 254.20		.06 37.35	999.00 297.70	15.35	6.33	37.95 289.50	11.84	14.46	40.00 999.00	-2.79 999.00	-2.20	0.00
20 5 11 13 303.20		.13 38.26	999.00 313.50	14.26	7.30	38.85 305.00	10.98	16.08	41.09 999.00	-2.97 999.00	-2.40	0.00
20 5 11 15 315.60		.22 39.66	999.00 310.40	11.84	7.74	40.23 310.30	9.22	15.15	42.58 999.00	-3.11 999.00	-2.52	0.00
20 5 11 16 317.60		.85 39.66	999.00 312.80	12.27	8.35	40.23 310.30	9.41	16.75	42.58 999.00	-2.82 999.00	-2.29	0.00
20 5 11 17 303.80		.95 42.65	999.00 298.70	13.48	7.95	43.21 289.80	10.35	14.52	45.31 999.00	-2.56 999.00	-1.95	0.00
		.03 42.83	999.00 286.20	12.09	6.54	43.39 277.10	9.31	11.86	44.93 999.00	-2.16 999.00	-1.59	0.00
20 5 11 18 291.30 20 5 11 19 290.40			999.00 285.40	15.81	8.05	43.39 277.10		11.15	44.93 999.00	-1.76 999.00	-1.39	0.00
							11.46			-1.43 999.00		
				13.36	5.11	43.45 273.40	8.19		44.50 999.00		-0.94	0.00
20 5 11 21 292.80			999.00 287.60	16.30	5.88	43.33 276.20	11.28	9.17	44.22 999.00	-1.41 999.00	-0.92	0.00
20 5 11 22 278.70			999.00 270.40	13.09	7.71	42.83 255.80	7.67	10.61	43.65 999.00	-1.19 999.00	-0.79	0.00
20 5 11 23 262.30			999.00 253.20	13.55	4.86	42.22 242.80	8.28	8.17	42.68 999.00	-0.88 999.00	-0.60	0.00
20 5 11 24 258.70			999.00 252.20	14.69	5.04	41.57 243.80	9.10	7.91	42.13 999.00	-1.09 999.00	-0.76	0.00
20 5 12 1 280.50			999.00 267.60	15.43	2.86	40.96 250.40	8.61	8.03	41.16 999.00	0.16 999.00	0.23	0.00
20 5 12 2 288.40			999.00 275.20	16.05	3.24	39.69 254.40	6.87	7.19	38.91 999.00	1.94 999.00	1.11	0.00
20 5 12 3 296.10			999.00 284.20	16.30	2.74		5.80	6.41	37.23 999.00	2.35 999.00	1.51	0.00
20 5 12 4 305.10	17.30 1.	.58 38.11	999.00 294.90	14.46	1.15	37.61 264.40	6.57	7.61	35.72 999.00	2.44 999.00	2.00	0.00

20 5 12 5 297.10	15.23 1.7		999.00 280.30	13.95	2.26		245.30	6.49	5.22		999.00		999.00	1.55	0.00
20 5 12 6 268.40	11.86 3.1		999.00 250.00	11.81	3.39		219.60	5.84	9.18	34.86	999.00	2.67	999.00	1.58	0.00
20 5 12 7 260.30	18.21 1.7	70 38.83	999.00 241.00	13.30	1.98	35.84	210.50	4.91	11.88	34.39	999.00	4.88	999.00	1.61	0.00
20 5 12 8 234.30	15.51 4.7	78 38.16	999.00 217.60	11.67	5.55	36.07	199.60	4.92	14.12	35.46	999.00	1.33	999.00	0.10	0.00
20 5 12 9 223.00	15.57 6.0	37.84	999.00 214.20	13.31	6.99	37.94	212.70	8.03	13.54	39.24	999.00	-1.87	999.00	-1.52	0.00
20 5 12 10 259.50	18.10 6.0	7 41.30	999.00 254.20	16.87	6.79	41.76	246.20	13.04	10.27	43.43	999.00	-2.46	999.00	-1.93	0.00
20 5 12 11 272.90	15.82 12.0		999.00 268.10	14.92	13.14		261.20	11.90	17.18	48.10	999.00	-2.85	999.00	-2.21	0.00
20 5 12 12 295.10	19.07 12.9		999.00 291.30	18.39	14.36	50.03	287.80	14.14	17.63	52.38	999.00	-3.40	999.00	-2.73	0.00
20 5 12 13 294.20	22.71 9.2		999.00 289.50	22.17	10.02		279.80	16.75	13.87	54.10	999.00	-2.55	999.00	-1.93	0.00
20 5 12 14 294.40	20.79 8.4		999.00 289.30	20.08	9.54		278.30	16.01	12.57	54.10	999.00	-2.66	999.00	-2.08	0.00
	20.75 7.9		999.00 279.80	20.59	9.03		270.30	16.10	13.23	56.15	999.00	-3.04	999.00	-2.46	0.00
20 5 12 16 306.60	17.30 9.3			16.91	9.36		295.80	12.98	15.51	56.79	999.00	-2.43	999.00	-1.83	0.00
20 5 12 17 309.30	18.17 14.3		999.00 305.80	17.52	14.77		300.70	13.35	19.37	57.72	999.00	-2.81	999.00	-2.14	0.00
20 5 12 18 308.20	18.15 7.5		999.00 302.80	17.52	7.94		295.80	12.46	15.66	57.79	999.00	-2.58	999.00	-1.99	0.00
20 5 12 19 307.40	16.32 16.3		999.00 303.20	15.49	17.31		296.80	10.36	21.96	57.59	999.00	-2.07	999.00	-1.62	0.00
20 5 12 20 314.50	18.97 3.0		999.00 309.70	16.92	4.56		305.00	8.55	13.65	57.13	999.00	-0.79	999.00	-0.49	0.00
20 5 12 21 308.70	17.02 4.1		999.00 303.50	15.09	4.39		298.30	7.87	11.90	54.63	999.00	0.46	999.00	0.74	0.00
20 5 12 22 323.60	20.60 3.7	71 53.19	999.00 317.30	18.83	4.47	53.41	301.80	8.21	13.04	52.24	999.00	0.64	999.00	0.86	0.00
20 5 12 23 326.40	18.78 3.9	90 51.82	999.00 319.70	16.74	4.55	52.08	306.10	7.85	11.09	51.39	999.00	0.28	999.00	0.58	0.00
20 5 12 24 52.41	12.23 9.9	90 47.57	999.00 46.25	11.19	9.06	47.97	41.45	9.67	10.95	48.39	999.00	-1.73	999.00	-1.16	0.00
20 5 13 1 64.38	15.14 6.2	27 44.00	999.00 57.81	14.57	6.59	44.55	61.92	10.70	10.10	45.48	999.00	-1.42	999.00	-0.88	0.00
20 5 13 2 66.55	14.20 4.8	30 43.29	999.00 61.24	13.41	5.51	43.82	67.10	8.77	10.42	44.69	999.00	-1.36	999.00	-0.83	0.00
20 5 13 3 73.20	12.17 3.8	33 42.84	999.00 66.53	11.74	4.35	43.33	71.40	7.49	10.22	44.10	999.00	-1.24	999.00	-0.73	0.00
20 5 13 4 95.00	8.02 4.4		999.00 89.90	7.72	5.64	43.20	91.80	3.46	16.56	43.74	999.00	-0.93	999.00	-0.44	0.00
20 5 13 5 91.40	7.18 4.5		999.00 83.60	7.01	4.40	43.49	84.00	3.59	10.89	43.81	999.00	-0.76	999.00	-0.26	0.00
20 5 13 6 69.46	9.12 4.2		999.00 63.23	8.98	4.03	43.55	68.64	5.16	8.29	43.96	999.00	-1.03	999.00	-0.52	0.00
20 5 13 7 66.67	8.82 4.4		999.00 60.39	8.68	5.39	43.16	66.05	5.61	9.89	43.67	999.00	-1.04	999.00	-0.48	0.00
20 5 13 8 78.70	8.50 5.9		999.00 73.60	8.17	7.03	43.89	74.30	6.50	13.08	44.65	999.00	-1.70	999.00	-0.97	0.00
20 5 13 9 102.00	8.29 9.4		999.00 98.10	7.73	12.61	44.35	96.60	6.06	20.11	45.98	999.00	-2.53	999.00	-1.83	0.00
20 5 13 10 113.30	8.01 8.0		999.00 109.20	8.06	9.17	45.15	120.40	6.78	17.00	47.11	999.00	-2.63	999.00	-1.96	0.00
20 5 13 11 90.40	9.44 5.5		999.00 83.40	9.54	6.50	45.80	86.20	8.05	13.75	47.62	999.00	-2.36	999.00	-1.65	0.00
20 5 13 12 88.40	12.70 6.7		999.00 82.00	12.54	7.02	45.23	88.40	10.48	13.60	47.39	999.00	-2.80	999.00	-1.98	0.00
20 5 13 13 90.40	15.22 5.3		999.00 84.50	15.07	7.23	44.70	86.80	11.93	14.20	47.00	999.00	-3.23	999.00	-2.41	0.00
20 5 13 14 88.30	16.21 4.3		999.00 85.30	16.26	4.71	45.02	96.20	12.10	12.38	47.27	999.00	-2.91	999.00	-2.26	0.00
20 5 13 15 89.90	15.71 6.3		999.00 85.60	15.58	7.96	45.57	91.10	12.52	14.44	47.94	999.00	-3.02	999.00	-2.32	0.00
20 5 13 16 90.60	16.05 3.8		999.00 86.60	15.94	5.24	46.05	92.30	11.82	13.05	48.36	999.00	-3.13	999.00	-2.31	0.00
20 5 13 17 96.00	16.15 5.5		999.00 90.90	15.61	6.89	46.33	91.70	11.27	14.42	48.58	999.00	-3.03	999.00	-2.24	0.00
20 5 13 18 95.70	18.32 2.7		999.00 89.00	18.31	3.38	46.64	90.90	13.69	10.98	48.70	999.00	-2.38	999.00	-1.82	0.00
20 5 13 19 94.00	18.88 3.5	45.87	999.00 88.40	18.90	4.13	46.51	95.40	12.73	13.17	48.50	999.00	-2.44	999.00	-1.88	0.00
20 5 13 20 98.60	19.93 3.2	20 46.11	999.00 93.80	19.56	4.26	46.78	98.30	11.60	14.53	48.33	999.00	-2.00	999.00	-1.34	0.00
20 5 13 21 104.60	19.52 2.9	90 46.23	999.00 97.70	19.22	3.63	46.78	102.70	10.24	13.76	47.86	999.00	-1.50	999.00	-0.97	0.00
20 5 13 22 106.10	17.79 4.5	60 46.16	999.00 98.90	16.50	6.06	46.69	106.00	8.08	14.54	47.58	999.00	-1.34	999.00	-0.81	0.00
20 5 13 23 110.30	18.37 4.1	46.62	999.00 103.50	17.32	5.35	47.13	107.40	9.01	13.95	47.96	999.00	-1.27	999.00	-0.79	0.00
20 5 13 24 111.10	18.58 3.7	79 47.39	999.00 103.50	17.12	4.78	47.85	110.00	8.69	14.75	48.58	999.00	-1.20	999.00	-0.73	0.00
20 5 14 1 120.70	16.52 4.3		999.00 114.90	15.18	5.12	48.37		8.37	12.11		999.00		999.00	-0.77	0.00
20 5 14 2 134.90	14.29 4.9		999.00 127.50	12.12	5.51		136.40	6.06	12.93		999.00		999.00	-0.73	0.00
20 5 14 3 140.80	15.60 3.2		999.00 133.50	13.80	4.37	49.62		6.39	14.44		999.00		999.00	-0.76	0.00
20 5 14 4 143.50	13.71 3.9		999.00 129.10	12.06	3.86	49.33		6.00	13.10		999.00		999.00	-0.81	0.00
20 5 14 5 156.40	13.61 2.7		999.00 140.90	10.01	4.66	49.13		3.73	13.86		999.00		999.00	-0.46	0.00
20 5 14 6 168.00	17.43 1.3		999.00 149.20	13.21	3.00		143.60	5.26	11.92		999.00		999.00	0.52	0.00
20 5 14 7 166.60	18.37 3.7		999.00 149.20	15.21	5.47			6.99	15.13		999.00		999.00	-0.46	0.00
20 5 14 7 166.60	12.80 4.0			9.73	5.47				18.02		999.00		999.00		0.00
20 3 14 6 1/7.50	12.00 4.0	77 71.11	999.00 164.30	9.73	5.96	51.13	100.40	4.22	10.02	51.19	222.00	-0.67	222.00	-0.75	0.13

00 5 14 0 101 00	00.65	0.10	F0 01	000 00	1.60 40	16.00	F 00	40.00	165 50	F 00	0000	40.44	000 00	4 4 5	00000	0 01	0 10
20 5 14 9 181.20		3.10		999.00		16.93	5.03		167.50	5.29	20.20		999.00		999.00	0.91	0.10
20 5 14 10 184.90		3.59	50.49	999.00		14.01	4.70		181.80	4.99	18.26	50.63	999.00	-0.93	999.00	-0.70	0.06
20 5 14 11 181.20		4.36	51.86	999.00		15.04	6.09		178.00	6.31	16.84	53.39	999.00	-1.62	999.00	-1.10	0.02
20 5 14 12 184.70		6.71		999.00		16.46	7.47		177.80	7.84	16.61	56.67	999.00		999.00	-1.74	0.02
20 5 14 13 199.50		10.20	58.57	999.00		12.17	11.00		191.90	8.17	15.89	61.67	999.00	-2.91	999.00	-1.74	0.00
20 5 14 14 219.10		6.44	65.36	999.00		20.54	6.53		211.30	12.07	13.73	67.86	999.00	-1.93	999.00	-1.41	0.00
20 5 14 15 226.60		6.72	69.15	999.00	220.00	18.86	7.66		217.50	10.73	13.76	69.77	999.00	-0.39	999.00	0.02	0.00
20 5 14 16 305.10		15.80	62.58	999.00	357.00	4.86	13.23	60.91	36.03	5.30	22.48	59.44	999.00	4.28	999.00	2.59	0.00
20 5 14 17 299.80		2.93	62.50	999.00	309.30	7.69	7.52		117.00	2.98	44.20	57.72	999.00	7.89	999.00	6.38	0.28
20 5 14 18 257.80		6.91	61.64	999.00	251.90	17.61	7.46		242.00	10.89	10.05	59.75	999.00	0.00	999.00	0.63	0.10
20 5 14 19 250.80		4.70	60.77	999.00	244.60	16.59	5.42		238.80	9.47	11.14	60.88	999.00	-0.22	999.00	0.24	0.00
20 5 14 20 237.70		5.00	61.54	999.00		16.62	5.29		215.50	8.14	12.16	61.77	999.00	0.01	999.00	0.24	0.00
20 5 14 21 215.70		2.49	62.96	999.00		14.17	3.67	63.07	182.30	4.97	11.09	61.90	999.00	1.30	999.00	1.53	0.01
20 5 14 22 189.50	16.73	3.72	62.96	999.00	177.70	14.39	3.67	62.89	172.80	4.84	13.78	61.56	999.00	1.43	999.00	1.32	0.00
20 5 14 23 192.60	19.60	2.99	62.11	999.00	184.50	16.29	4.10	61.93	187.60	6.24	14.14	61.37	999.00	0.44	999.00	0.37	0.00
20 5 14 24 196.10	19.02	4.33	63.20	999.00	184.90	15.49	5.10	62.61	179.60	4.97	15.98	61.63	999.00	1.48	999.00	1.12	0.00
20 5 15 1 208.70		3.49	63.04	999.00	203.40	12.78	3.87	62.82	198.30	3.61	12.50	61.70	999.00	1.64	999.00	1.41	0.03
20 5 15 2 201.80	19.46	3.05	63.81	999.00	192.20	15.57	4.09	63.44	186.10	4.66	15.87	61.91	999.00	2.24	999.00	1.80	0.00
20 5 15 3 196.80	22.07	4.28	63.81	999.00	189.10	19.09	5.17	63.44	190.90	8.13	15.35	61.91	999.00	0.71	999.00	0.79	0.00
20 5 15 4 255.60	14.08	10.10	63.11	999.00	255.90	12.00	12.24	63.23	261.70	5.87	18.05	62.89	999.00	0.28	999.00	0.36	0.00
20 5 15 5 217.10	13.68	3.67	63.32	999.00	207.00	10.24	5.36		147.30	2.80	6.59	60.41	999.00	4.28	999.00	3.98	0.00
20 5 15 6 216.00	19.34	3.52	64.67	999.00	207.40	15.88	4.01		198.80	5.29	13.41	61.28	999.00	2.17	999.00	2.02	0.00
20 5 15 7 219.80	24.14	4.51	65.55	999.00	213.00	21.02	4.90	65.57	208.50	9.63	14.03	64.09	999.00	1.00	999.00	1.13	0.00
20 5 15 8 231.30		4.16	66.21	999.00	223.90	19.10	4.96		218.60	9.31	12.34	65.50	999.00	0.19	999.00	0.40	0.00
20 5 15 9 227.30	21.40	5.54	65.94	999.00	220.40	19.51	6.33	66.27	218.50	10.81	14.28	67.07	999.00	-1.79	999.00	-1.37	0.00
20 5 15 10 218.60	26.23	5.32	66.92	999.00	212.00	24.04	6.89	67.40	212.80	13.97	13.57	68.92	999.00	-2.33	999.00	-1.79	0.00
20 5 15 11 232.20		6.49	68.15	999.00	225.90	23.52	7.38		223.50	14.37	11.99	69.94	999.00	-1.46	999.00	-0.88	0.00
20 5 15 12 245.30	21.47	5.11	67.10	999.00	240.70	19.86	5.64	67.54	237.10	13.22	9.65	68.11	999.00	-0.97	999.00	-0.51	0.00
20 5 15 13 248.50		4.88	67.99	999.00		20.67	5.79		239.20	13.68	8.86	69.29	999.00	-0.88	999.00	-0.41	0.01
20 5 15 14 284.60		6.92	60.23	999.00	281.40	16.82	7.52		273.70	10.00	11.06	60.57	999.00	-1.00	999.00	-0.52	0.12
20 5 15 15 283.10		6.69	60.74	999.00	277.50	15.23	7.89		266.30	9.53	12.40	61.42	999.00	-0.37	999.00	0.23	0.19
20 5 15 16 313.00		4.72	61.52	999.00	307.00	12.25	7.22		299.20	7.31	14.03	62.21	999.00	-2.30	999.00	-1.85	0.03
20 5 15 17 297.90		8.56	62.50	999.00	294.20	7.87	9.50		287.80	5.30	13.60	64.15	999.00	-1.20	999.00	-0.61	0.01
20 5 15 18 283.10		13.80	63.27	999.00	267.90	5.43	13.67		234.70	4.25	8.09	64.35	999.00	-1.17	999.00	-0.66	0.00
20 5 15 19 242.00		4.02	64.00	999.00	234.30	5.80	3.87		231.10	4.09	10.18	65.57	999.00	-1.65	999.00	-1.12	0.00
20 5 15 20 253.30		3.49	64.47		242.60	7.71	3.65		230.20	4.99	6.74	65.77	999.00	-1.02	999.00	-0.57	0.00
20 5 15 21 249.60		1.99	64.74	999.00	240.50	8.17	3.73		222.90	3.52	7.28	64.62	999.00	0.81	999.00	1.18	0.00
20 5 15 22 250.50		1.73	64.77	999.00	238.60	9.05	1.89		205.50	3.22	9.87	63.15	999.00	2.06	999.00	2.23	0.00
20 5 15 23 263.40		3.42	64.47	999.00		7.12	1.54		105.20	1.32	31.66	61.70	999.00	3.22	999.00	3.04	0.00
20 5 15 24 270.80		5.55	64.72	999.00	250.00	7.50	2.25		203.20	1.72	15.83	60.85	999.00	4.41	999.00	4.11	0.00
20 5 16 1 259.00		4.16	64.44	999.00	233.90	8.94	7.11		157.70	2.34	15.19	59.72	999.00	4.57	999.00	2.65	0.00
20 5 16 2 285.80		2.51	63.47	999.00	264.20	8.09	1.12		152.80	1.39	20.65	58.40	999.00	6.17	999.00	5.88	0.00
20 5 16 3 293.70		37.65		999.00		2.63	69.06		140.10	2.56	18.05		999.00		999.00	2.93	0.00
20 5 16 4 111.80				999.00		8.62	7.67	60.56		3.29			999.00		999.00	1.09	0.01
20 5 16 5 132.20		4.10		999.00		9.41	4.02		149.90	3.37	21.10		999.00		999.00	0.82	0.00
20 5 16 6 85.60		2.51		999.00	74.50	12.17	3.91	56.91	74.00	5.87	12.07		999.00		999.00	1.44	0.00
20 5 16 7 88.00		3.41		999.00	72.70	14.38	6.23	54.42	71.50	7.72	11.36		999.00		999.00	0.16	0.00
20 5 16 8 89.80		2.32		999.00	79.40	15.30	4.97	52.73	80.70	9.16	10.11		999.00		999.00	-0.37	0.00
20 5 16 9 95.40		3.44		999.00	89.30	15.69	5.61	52.22	97.80	9.13	13.90		999.00		999.00	-1.37	0.00
20 5 16 10 88.30		5.68		999.00	80.50	10.78	8.49	52.28	76.80	8.45	11.60		999.00		999.00	-2.11	0.00
20 5 16 11 83.50		8.49		999.00	77.00	8.76	9.72	52.32	77.30	7.73	15.77		999.00		999.00	-1.78	0.00
20 5 16 12 68.84	9.80	6.58	52.61	999.00	60.71	10.29	5.27	52.78	62.03	9.47	9.68	53.82	999.00	-0.83	999.00	-0.86	0.00

20 5 16 17 74.00 8.08 6.51 52.24 999.00 86.99 87.90 73.01 53.61 88.86 8.49 7.90 73.61 88.86 8.49 7.90 79.00	00 5 16 10 54 6	0 00	6 51	F0 04	000 00	66.05	0 45		E0 61	60.05	0 40	10 56	F.F. 0.1	00000	0 =1	00000	0 10	0 00
10 16 15 16 15 16 17 17 18 18 18 18 18 18			6.51	53.24	999.00	66.95	8.45	7.90	53.61	68.85	8.43	13.56					-2.12	0.00
20 2 6 6 79.30 20.56 79.30 20.56 79.40 20.98 20.99.00 82.90 20.90 82.90 20.90 82.90 10.90																		
20 5 16 17 78 78 70 12,20 8.17 81,70 17,20 19,90 11,10 11,																		
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20 5 17 10 97.80	20 5 17 8 95.0	0 26.04	3.34	51.82	999.00	87.90	23.73	4.59	52.21	92.10	13.32	13.61	53.35	999.00	-1.74	999.00	-1.26	0.00
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20 5 18 10 113.70 23.40 3.56 54.36 999.00 101.50 18.90 6.05 53.16 98.80 8.97 11.96 53.94 999.00 0.24 999.00 -0.70 0.04 20 5 18 11 119.60 23.95 3.51 56.98 999.00 105.70 19.62 5.66 55.49 113.60 8.15 15.95 56.09 999.00 0.76 999.00 -0.51 0.00 20 5 18 12 128.40 21.40 2.22 59.04 999.00 109.20 19.13 4.98 56.63 106.00 8.89 13.67 58.00 999.00 0.78 999.00 -2.09 0.00 20 5 18 13 143.00 20.72 2.95 63.61 999.00 126.80 19.50 4.00 60.91 116.70 9.01 13.89 60.69 999.00 5.27 999.00 3.33 0.00 20 5 18 14 142.60 19.12 4.47 66.24 999.00 123.00 17.59 6.62 64.65 103.10 7.15 17.18 62.57 999.00 3.01 999.00 0.48 0.02 20 5 18 15 149.30 8.17 8.39 65.33 999.00 127.00 8.68 7.94 64.38 92.50 8.19 10.18 59.72 999.00 6.83 999.00 6.35 0.12																		
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20 5 18 12 128.40 21.40 2.22 59.04 999.00 109.20 19.13 4.98 56.63 106.00 8.89 13.67 58.00 999.00 0.78 999.00 -2.09 0.00 20 5 18 13 143.00 20.72 2.95 63.61 999.00 126.80 19.50 4.00 60.91 116.70 9.01 13.89 60.69 999.00 5.27 999.00 3.33 0.00 20 5 18 14 142.60 19.12 4.47 66.24 999.00 123.00 17.59 6.62 64.65 103.10 7.15 17.18 62.57 999.00 3.01 999.00 0.48 0.02 20 5 18 15 149.30 8.17 8.39 65.33 999.00 127.00 8.68 7.94 64.38 92.50 8.19 10.18 59.72 999.00 6.83 999.00 6.35 0.12																		
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20 5 18 14 142.60 19.12 4.47 66.24 999.00 123.00 17.59 6.62 64.65 103.10 7.15 17.18 62.57 999.00 3.01 999.00 0.48 0.02 20 5 18 15 149.30 8.17 8.39 65.33 999.00 127.00 8.68 7.94 64.38 92.50 8.19 10.18 59.72 999.00 6.83 999.00 6.35 0.12																		
20 5 18 15 149.30 8.17 8.39 65.33 999.00 127.00 8.68 7.94 64.38 92.50 8.19 10.18 59.72 999.00 6.83 999.00 6.35 0.12																		
20 5 18 16 108.40 19.46 3.07 62.58 999.00 94.10 22.13 2.52 60.39 92.60 9.51 14.22 56.98 999.00 5.64 999.00 2.04 0.00																		
	20 5 18 16 108.4	0 19.46	3.07	62.58	999.00	94.10	22.13	2.52	60.39	92.60	9.51	14.22	56.98	999.00	5.64	999.00	2.04	0.00

20 5 18 17	95.40	28.18	3.55		999.00	88.10	24.49	5.27	54.38	97.80	12.03	13.77		999.00		999.00	-0.96	0.00
20 5 18 18	98.90	30.94	4.57	51.95	999.00	92.10	27.84	5.56		100.60	14.48	13.46	53.43	999.00	-1.55	999.00	-0.93	0.01
20 5 18 19 1	102.30	32.95	3.76	51.16	999.00	96.40	30.35	4.99	51.95	106.70	14.92	15.92	52.85	999.00	-1.68	999.00	-0.81	0.02
20 5 18 20 1	101.00	29.45	3.85	51.12	999.00	94.80	26.92	4.86	51.97	103.40	12.76	13.91	52.73	999.00	-1.53	999.00	-0.71	0.01
20 5 18 21 1	102.60	29.30	4.26	51.43	999.00	96.40	26.44	5.53	52.32	104.80	13.26	16.05	53.02	999.00	-1.63	999.00	-0.70	0.11
20 5 18 22 1	100.90	33.54	3.86	51.11	999.00	95.20	30.44	4.89	52.03	103.70	14.85	15.34	52.72	999.00	-1.66	999.00	-0.73	0.28
20 5 18 23	96.70	33.91	4.24	50.25	999.00	91.30	30.42	6.36	51.04	99.20	14.94	16.08	51.81	999.00	-1.48	999.00	-0.81	0.04
20 5 18 24	91.00	25.63	3.86	50.25	999.00	83.50	24.13	4.52	51.04	87.40	13.54	13.13	51.81	999.00	-1.65	999.00	-0.83	0.08
20 5 19 1 1		27.63	4.40		999.00	91.20	26.02	4.06	51.00	96.60	12.77	13.27	51.68	999.00		999.00	-0.42	0.04
20 5 19 2	88.40	23.26	3.89	50.89	999.00	81.00	20.90	4.86	50.97	85.00	13.47	11.02	51.67	999.00	-1.45	999.00	-0.77	0.03
	92.20	26.19	3.61	50.58	999.00	85.30	23.22	4.76	51.21	94.90	10.85	14.09	51.89	999.00	-1.14	999.00	-0.59	0.01
20 5 19 4	93.60	33.96	1.93	52.93	999.00	85.00	28.57	4.29	52.59	92.60	12.40	13.37	52.72	999.00	1.20	999.00	0.23	0.04
	96.60	32.45	3.65	52.79	999.00	88.40	28.56	4.63	53.01	95.80	13.72	13.80	53.16	999.00	-0.69	999.00	-0.27	0.04
	100.40	33.82	3.68	53.93	999.00	91.50	28.99	4.03	54.09	96.40	14.04	12.98	54.06	999.00	-0.06	999.00	0.10	0.02
20 5 19 7 1		29.15	2.34	54.06	999.00	99.40	25.55	4.27	54.09	112.30	10.97	13.46	54.07	999.00	-0.01	999.00	0.05	0.00
	97.00	28.85	3.13	53.02	999.00	88.90	25.87	4.48	53.26	91.50	14.04	13.11	53.63	999.00	-1.05	999.00	-0.52	0.01
	101.50	27.88	3.69	52.81	999.00	91.30	24.13	4.28	53.02	95.30	11.93	12.93	53.46	999.00	-0.50	999.00	-0.40	0.03
20 5 19 10	97.10	29.37	2.65	52.92	999.00	86.10	27.18	3.60	52.96	92.50	13.84	13.12	53.72	999.00	-0.95	999.00	-0.87	0.01
20 5 19 11	93.20	32.16	2.96	52.46	999.00	85.70	29.12	4.31	52.68	92.90	15.42	12.81	54.21	999.00	-2.01	999.00	-1.74	0.00
	92.40	30.73	3.34	52.91		86.00	27.78	4.34	53.14	92.70	14.94	13.26	54.96	999.00	-2.45	999.00	-1.78	0.00
20 5 19 13	95.10	29.53	3.82	52.63		84.60	27.17	4.60	53.37	86.90	15.47	12.07	55.47	999.00	-2.88	999.00	-2.27	0.00
20 5 19 14	97.60	25.19	6.34	52.71	999.00	88.60	22.80	6.12	53.11	93.70	11.82	14.02	54.51	999.00	-1.87	999.00	-1.54	0.00
	84.70	25.38	3.02	54.51		74.80	23.44	4.86	54.64	79.00	14.43	10.99	56.20	999.00	-1.52	999.00	-1.30	0.00
20 5 19 16	93.90	22.88	4.23	52.39	999.00	85.90	20.63	5.27	52.20	90.50	11.08	13.90	53.39	999.00	-1.70	999.00	-1.40	0.01
20 5 19 17	96.70	15.36	3.66	52.13	999.00	88.60	13.53	4.85	51.92	92.00	7.55	14.59	52.64	999.00	-1.02	999.00	-0.83	0.00
20 5 19 18 1	113.60	11.91	6.77	52.41	999.00	107.90	10.43	9.52	52.98	110.80	5.91	16.21	55.17	999.00	-3.01	999.00	-2.40	0.00
20 5 19 19 1	106.00	15.24	5.86	53.16	999.00	98.10	13.01	8.07	53.74	106.10	6.50	15.80	55.35	999.00	-1.43	999.00	-0.87	0.00
20 5 19 20 1	103.20	19.29	4.25	53.46	999.00	96.20	16.45	6.11	53.88	100.80	6.94	16.54	53.96	999.00	0.11	999.00	0.46	0.00
20 5 19 21 1	102.20	14.55	3.60	54.37	999.00	88.70	13.25	4.15	53.76	92.70	7.63	12.20	53.72	999.00	0.70	999.00	-0.39	0.00
20 5 19 22 1	107.70	14.54	3.58	55.24	999.00	96.20	13.67	4.70	53.37	103.30	6.94	11.51	53.74	999.00	2.45	999.00	-0.14	0.00
20 5 19 23 1	150.10	10.74	5.62	56.25	999.00	146.10	8.27	10.00	54.34	148.30	3.76	13.68	54.16	999.00	1.63	999.00	0.29	0.00
20 5 19 24 1		10.31	3.71	56.71	999.00		8.25	4.08		186.10	1.24	11.80	54.92	999.00	3.14	999.00	3.10	0.00
20 5 20 1 1		10.41	3.79	57.85	999.00		9.55	4.52		167.40	2.40	17.18	55.85	999.00	0.77	999.00	1.14	0.00
20 5 20 2 1		12.31	4.69	56.84		151.60	10.95	5.92		160.20	4.25	16.09	56.74	999.00	0.18	999.00	0.51	0.00
20 5 20 3 1		12.07	3.84	56.30	999.00		10.10	5.21		154.30	3.55	14.52	56.49	999.00	-0.02	999.00	0.30	0.00
20 5 20 4 1		11.56	5.18	56.28	999.00		9.92	5.27		150.40	3.94	12.98	56.03	999.00	0.24	999.00	0.60	0.00
20 5 20 5 1		10.47	7.14	55.73	999.00		9.23	8.50		133.00	4.19	15.17	55.80	999.00	-0.37	999.00	0.03	0.00
20 5 20 6 1		9.75	4.89	54.61	999.00		8.06	7.11		173.80	3.10	20.69	55.70	999.00	-1.25	999.00	-0.84	0.00
20 5 20 7 1		8.20	4.64	53.18	999.00		7.20	6.02		169.50	2.83	16.04	54.47	999.00	-1.28	999.00	-0.81	0.00
	138.00	5.06	11.10	53.18	999.00	124.10	4.99	8.47		117.10	2.53	20.37	54.47	999.00	-1.60	999.00	-1.07	0.00
	96.10	6.48	7.77	53.11		85.60	5.70	8.73	53.62	92.70	3.65	19.19	54.82	999.00	-1.68	999.00	-1.25	0.00
		13.09	4.88	53.81	999.00	94.60	11.71	6.10	54.07	94.10	6.30	13.93	55.11	999.00	-1.40	999.00	-1.11	0.00
	95.40	16.69	2.78		999.00	85.30	15.83	4.49	54.65	86.90	9.76	11.70		999.00		999.00	-1.28	0.00
20 5 20 12 1		17.95	3.85				15.75	5.01		98.90		16.55		999.00	-1.39		-1.13	0.00
	88.60	20.94	3.28		999.00	82.00	18.80	4.80	53.69	88.30	11.27	12.51		999.00		999.00	-1.48	0.00
20 5 20 14	82.90	22.19	5.10		999.00	76.60	19.61	6.60	53.69	83.40	13.03	11.64		999.00		999.00	-1.68	0.00
	94.20	22.15	2.84		999.00	85.10	20.39	4.27	54.40	90.60	12.46	13.20		999.00		999.00	-1.69	0.00
	89.80	17.20	7.76		999.00	82.40	14.74	9.51	54.11	86.70	10.21	13.08		999.00		999.00	-1.51	0.00
	90.80	21.37	6.38		999.00	83.90	19.34	6.51	54.11	90.20	11.44	15.90		999.00		999.00	-1.88	0.00
	93.90	22.61	4.95		999.00	87.10	20.99	5.39	53.46	90.60	12.42	14.66		999.00		999.00	-1.84	0.00
20 5 20 19 1		19.80	2.99		999.00	92.40	16.82	4.99	53.83	95.00	8.11	15.25		999.00		999.00	-0.76	0.00
20 5 20 20	90.60	14.41	3.68	54.76	999.00	83.70	12.69	6.00	54.09	88.80	7.18	13.37	54.98	999.00	-1.51	999.00	-1.14	0.00

20	5 20 21	78.50	9.99	3.28	53.17	999.00	67.63	9.55	4.46	53.22	74.60	6.35	10.70	54.11	999.00	-0.86	999.00	-0.93	0.00
20	5 20 22	96.50	16.00	3.41	54.69	999.00	85.60	11.68	4.02	53.60	86.90	5.96	11.87	53.94	999.00	2.16	999.00	0.15	0.00
20	5 20 23	97.40	18.50	5.56	56.35	999.00	83.90	14.26	6.37	54.96	79.90	5.89	12.64	54.42	999.00	1.13	999.00	0.23	0.00
20	5 20 24	102.20	23.92	2.39	58.95	999.00	93.80	19.41	4.38	57.76	98.40	6.89	14.66	56.97	999.00	1.18	999.00	0.40	0.00
20	5 21 1		22.14	2.28	57.33	999.00	99.40	17.74	4.77		103.20	6.93	15.67	56.22	999.00	1.07	999.00	0.28	0.00
20	5 21 2		21.30	2.85	57.95	999.00	102.60	17.21	4.75		111.10	6.82	15.60	57.18	999.00	0.62	999.00	0.14	0.00
20			20.98	2.73	59.07	999.00	98.70	18.66	4.62	58.30	99.60	7.32	14.50	57.88	999.00	1.35	999.00	0.37	0.00
20	5 21 4		19.36	2.73	57.12	999.00	91.30	17.83	3.04	56.27	95.80	8.24	13.49	56.39	999.00	0.37	999.00	-0.34	0.00
	5 21 5			3.15	56.04	999.00	103.10	16.15			104.60		15.19	55.68	999.00		999.00		0.00
20			17.94						4.43			6.43				0.30		-0.21	
20	5 21 6		14.98	2.98	56.02	999.00	107.80	12.68	5.40		102.80	5.09	14.65	55.56	999.00	0.30	999.00	-0.13	0.00
20	5 21 7		14.60	8.16	55.60	999.00	110.50	13.57	11.29		108.50	6.74	17.42	55.87	999.00	-0.33	999.00	-0.27	0.00
20	5 21 8		11.66	5.79	54.91	999.00	105.60	11.07	8.26		102.80	6.13	17.32	56.11	999.00	-1.47	999.00	-1.13	0.00
20	5 21 9		11.22	6.63	53.71	999.00	100.50	10.08	9.29	54.17	98.10	7.15	15.83	55.62	999.00	-2.33	999.00	-1.72	0.00
20	5 21 10	114.80	10.88	6.17	54.44	999.00	101.20	9.32	7.98	54.94	112.70	5.75	17.19	56.65	999.00	-2.32	999.00	-1.89	0.00
20	5 21 11	125.70	8.34	21.73	54.49	999.00	125.80	7.43	23.78	54.89	148.50	4.10	33.62	56.42	999.00	-2.04	999.00	-1.52	0.00
20	5 21 12	83.00	9.55	5.81	54.02	999.00	74.90	9.09	8.27	54.48	72.20	7.33	12.36	55.83	999.00	-2.07	999.00	-1.51	0.00
20	5 21 13	95.80	15.78	5.68	53.53	999.00	84.40	14.72	6.12	54.04	88.60	8.99	13.95	55.69	999.00	-2.24	999.00	-1.85	0.00
20	5 21 14	94.60	13.51	4.43	53.18	999.00	86.10	12.53	6.02	53.64	89.10	8.54	12.65	55.29	999.00	-2.27	999.00	-1.71	0.00
	5 21 15	83.60	9.22	7.47	53.06	999.00	79.00	9.17	8.07	53.65	83.80	7.39	14.76	55.31	999.00	-2.36	999.00	-1.76	0.00
	5 21 16	107.60	8.46	5.99	53.92	999.00	95.20	6.88	8.13	54.23	84.10	5.32	15.70	55.77	999.00	-1.31	999.00	-1.42	0.00
	5 21 17	74.50	7.94	8.20	55.69	999.00	64.10	6.82	11.05	55.44	62.27	5.70	11.04	56.19	999.00	-0.49	999.00	-0.66	0.00
20		94.40	16.32	4.05	54.93	999.00	87.50	13.43	4.64	55.10	89.30	8.24	13.87	56.46	999.00	0.07	999.00	-0.68	0.00
20			13.66	4.17	56.09	999.00	102.20	10.26	7.04	55.36	97.60	5.84	15.60	56.58	999.00	-0.36	999.00	-1.09	0.00
	5 21 20		14.06	2.12	57.40	999.00	112.80	12.32	4.49	56.51	104.50	5.84	12.94	56.84	999.00	0.67	999.00	-0.22	0.00
	5 21 21						102.60				89.70				999.00		999.00		0.00
20			15.44	1.76	58.81	999.00		11.98	2.46	57.99		5.37	15.69	57.11		2.92		1.89	
20			16.33	2.56	60.63	999.00	94.20	15.54	2.17	59.04	96.00	5.97	12.75	57.20	999.00	4.16	999.00	2.28	0.00
	5 21 23		18.41	3.28	60.60	999.00	110.00	14.67	4.31	58.87	111.70	4.74	13.41	56.76	999.00	2.95	999.00	1.14	0.00
	5 21 24		12.56	2.12	59.36	999.00	109.10	12.28	2.36	59.02	96.30	5.19	11.22	57.88	999.00	1.46	999.00	1.55	0.00
20	5 22 1		14.29	2.11	59.33	999.00	110.10	12.43	3.83		104.50	4.34	11.17	57.83	999.00	1.94	999.00	1.13	0.00
20	5 22 2		12.56	1.87	58.78		113.40	11.83	3.78		108.90	4.68	12.77	57.32	999.00	1.94	999.00	0.37	0.00
20	5 22 3		11.09	1.64	58.51	999.00		10.13	3.68		100.70	4.50	11.73	56.35	999.00	2.28	999.00	0.79	0.01
20	5 22 4		10.69	1.91	57.64	999.00	111.00	9.37	3.17	56.38	100.10	4.50	12.31	55.92	999.00	1.97	999.00	0.69	0.01
20	5 22 5	139.90	10.16	4.21	57.23	999.00	119.30	7.55	2.95	56.12	102.20	3.31	13.26	55.60	999.00	1.75	999.00	0.76	0.00
20	5 22 6	135.60	8.16	4.64	56.86	999.00	114.80	8.40	2.23	56.11	101.70	4.07	10.80	55.64	999.00	0.78	999.00	0.50	0.00
20	5 22 7	138.10	8.46	6.40	56.57	999.00	120.60	8.91	2.89	56.27	103.90	3.69	11.41	56.06	999.00	1.10	999.00	0.68	0.00
20	5 22 8	133.10	9.72	2.40	57.55	999.00	119.10	9.35	5.46	56.74	119.50	4.37	14.34	56.36	999.00	0.20	999.00	-0.40	0.01
20	5 22 9	119.60	12.07	1.80	57.52	999.00	111.30	9.87	4.30	57.03	110.50	4.83	14.53	57.23	999.00	0.06	999.00	-0.72	0.01
20	5 22 10	109.80	8.86	3.25	56.69	999.00	97.90	8.53	5.18	55.96	93.20	5.43	11.60	56.37	999.00	0.03	999.00	-0.65	0.03
20			7.18	2.60	56.45	999.00	101.30	7.44	6.31	55.50	92.10	4.75	12.36	56.32	999.00	0.43	999.00	-0.69	0.02
20			6.69	3.36	56.46	999.00	101.80	7.83	5.03	55.85	97.80	5.04	11.65	56.42	999.00	-0.10	999.00	-0.61	0.00
	5 22 13		6.74	5.47	56.54	999.00	98.80	8.30	5.29	55.80	91.90	5.94	14.46	56.70	999.00	-0.21	999.00	-0.89	0.00
20	5 22 14	86.90	4.32	14.66	57.09	999.00	91.80	6.20	8.99	56.68	96.00	3.88	15.79	56.82	999.00	0.50	999.00	0.07	0.00
	5 22 15 5 22 16	74.00 92.40	5.77 6.80	10.11 3.01		999.00 999.00	83.90 98.90	7.44 6.72	6.54 5.49	57.04 57.04	85.50 88.90	5.67 5.29	10.94 14.36		999.00 999.00		999.00 999.00	-0.24 -0.92	0.00
	5 22 17	75.10	8.82	3.36		999.00	75.10	7.81	6.53	56.87	84.70	5.67	14.23		999.00		999.00	-0.97	0.00
	5 22 18	84.00	10.22	6.20		999.00	86.90	9.15	8.07	57.02	89.30	6.61	11.87		999.00		999.00	-1.07	0.00
	5 22 19		6.99	5.90	57.03	999.00	118.70	5.74	8.43	57.12	132.60	4.18	17.77		999.00		999.00	-1.40	0.00
	5 22 20	72.60	4.06	10.01	57.55	999.00	65.39	3.97	11.33	57.90	68.97	3.95	15.12		999.00		999.00	-1.06	0.00
	5 22 21	90.80	8.82	1.38	57.43	999.00	80.70	8.62	2.15	57.45	84.30	5.52	7.97		999.00		999.00	0.41	0.00
	5 22 22		6.69	1.91	58.16	999.00	113.30	5.41	8.16		267.40	0.92	76.90		999.00	1.08	999.00	0.82	0.00
	5 22 23		7.87	7.53	57.67	999.00	124.40	7.96	17.49		148.80	3.51	37.15	55.82	999.00	1.88	999.00	1.52	0.00
20	5 22 24	171.10	4.77	10.81	57.32	999.00	190.60	2.82	47.14	56.47	294.70	2.70	55.70	55.33	999.00	2.10	999.00	1.20	0.00

20	5 23 1		4.34	5.19		999.00		3.72	7.08		243.80	1.46	58.46	54.65	999.00		999.00	3.54	0.00
20		147.10	4.96	6.29	57.41	999.00	128.70	5.07	10.27		112.80	2.77	16.44	54.17	999.00	3.02	999.00	2.93	0.00
20	5 23 3	169.50	3.44	16.49	56.98	999.00	131.10	3.98	12.44	55.30	150.20	1.66	64.68	54.08	999.00	3.27	999.00	1.64	0.00
20	5 23 4	200.70	1.01	16.09	58.01	999.00	148.30	3.75	7.05	57.00	169.30	1.69	35.62	54.60	999.00	3.33	999.00	2.23	0.00
20	5 23 5	332.50	1.73	43.56	58.57	999.00	105.30	1.55	45.17	57.42	138.80	1.14	40.11	54.47	999.00	4.05	999.00	3.10	0.00
20	5 23 6	314.00	1.36	90.60	55.35	999.00	158.40	1.93	29.36	53.96	179.60	1.13	62.96	53.86	999.00	2.25	999.00	0.01	0.00
20	5 23 7	110.30	1.75	29.65	55.54	999.00	172.10	2.92	16.26	53.47	182.00	2.59	24.65	53.72	999.00	2.03	999.00	-0.68	0.00
20	5 23 8	343.50	1.75	45.92	55.18	999.00	166.90	1.87	53.65	53.37	283.10	1.99	48.53	54.06	999.00	2.52	999.00	-0.21	0.00
20	5 23 9	78.30	3.71	14.41	56.95	999.00	70.20	3.59	13.97	54.84	76.20	3.72	15.80	55.72	999.00	-0.96	999.00	-1.16	0.00
20		81.80	4.07	12.67	55.15	999.00	103.80	3.35	19.54		126.60	3.07	24.31	56.24	999.00	-1.74	999.00	-2.02	0.00
	5 23 11		6.04	10.54	56.34	999.00	107.10	4.82	18.38		121.70	3.88	22.71	58.45	999.00	-1.94	999.00	-2.34	0.00
20	5 23 12		8.73	8.68	57.11	999.00	104.30	7.37	10.42	57.46	87.50	6.44	12.24	60.13	999.00	-3.17	999.00	-2.73	0.00
20			8.69	5.07	57.80	999.00	96.10	7.68	8.75	57.10	99.30	5.43	18.73	60.90	999.00	-3.57	999.00	-3.32	0.00
	5 23 14		6.37	12.63	58.89	999.00	110.90	6.14	12.06	59.31	111.10	5.47	21.31	62.04	999.00	-3.11	999.00	-2.53	0.00
	5 23 15		6.76	7.09	59.53	999.00	92.10	7.75	5.76	59.96	91.20	7.37	13.32	62.15	999.00	-1.61	999.00	-1.23	0.00
	5 23 16	90.60	7.31	4.71	60.89	999.00	82.80	8.18	5.31	61.21	94.90	7.82	10.97	62.13	999.00	-1.16	999.00	-0.93	0.00
	5 23 17	87.70	8.43	5.26	61.94	999.00	74.70	7.49	8.75	62.01	78.30	6.60	15.14	63.10	999.00	-1.02	999.00	-1.14	0.00
20		94.00	11.62	3.04	62.31	999.00	80.10	10.47	4.57	62.26	91.90	7.56	12.93	63.72	999.00	-0.32	999.00	-1.10	0.00
20	5 23 19		13.49	1.77	63.17	999.00	91.50	12.38	4.29	60.94	102.40	6.28	14.61	61.85	999.00	1.23	999.00	-0.68	0.00
20	5 23 20	97.80	15.16	1.57	63.52	999.00	90.10	16.34	2.42	61.04	92.80	7.38	11.82	60.42	999.00	3.53	999.00	0.68	0.00
20	5 23 21		20.33	2.20	62.76	999.00	100.20	15.72	4.89	60.04	99.60	7.32	13.15	59.53	999.00	1.90	999.00	-0.13	0.00
20	5 23 22		23.17	2.18	62.76	999.00	110.80	19.06	4.34		114.00	7.10	13.18	59.53	999.00	2.56	999.00	0.26	0.00
20	5 23 23		22.65	0.93	65.13	999.00	114.70	17.64	1.27		112.10	5.75	13.14	60.73	999.00	4.97	999.00	2.35	0.00
20	5 23 24	128.20	21.15	1.85	65.53	999.00	115.70	16.30	3.41	62.84	100.40	5.58	12.17	60.72	999.00	5.07	999.00	2.29	0.00
20	5 24 1	146.70	21.90	1.87	65.53	999.00	128.30	17.72	2.97	62.84	119.80	5.74	11.29	60.72	999.00	7.10	999.00	3.84	0.00
20	5 24 2	152.00	19.75	2.99	68.42	999.00	138.40	15.85	3.23	66.85	115.00	4.53	12.44	62.48	999.00	5.07	999.00	4.11	0.00
20	5 24 3	159.50	21.32	1.64	67.70	999.00	148.60	17.36	1.98	66.93	134.10	4.39	11.50	61.64	999.00	5.54	999.00	4.77	0.00
20	5 24 4	172.40	17.86	1.53	66.99	999.00	160.40	14.36	2.43	66.02	153.30	4.26	9.48	63.63	999.00	3.18	999.00	2.11	0.00
20	5 24 5	182.60	18.67	1.98	67.99	999.00	167.30	14.49	2.42	66.63	153.70	3.97	14.13	64.32	999.00	3.32	999.00	1.74	0.00
20	5 24 6	192.00	19.23	1.50	67.41	999.00	180.00	14.99	1.71	66.26	166.70	3.03	12.55	63.90	999.00	3.75	999.00	2.85	0.00
20	5 24 7	193.50	19.72	2.67	67.00	999.00	180.60	15.85	2.74	66.30	172.20	4.61	13.16	64.18	999.00	2.51	999.00	1.77	0.00
20	5 24 8		16.51	4.91	66.22	999.00	182.30	13.21	7.05		180.60	5.17	17.72	66.08	999.00	-0.88	999.00	-0.48	0.00
20	5 24 9		15.79	7.20	67.60	999.00	201.50	14.44	7.68		197.90	8.96	15.37	69.33	999.00	-1.91	999.00	-1.07	0.00
20	5 24 10		13.75	7.91	70.02	999.00	218.60	13.50	7.14		213.70	8.70	12.78	72.43	999.00	-2.63	999.00	-2.05	0.00
20	5 24 11		13.02	6.05	72.32	999.00	212.80	12.46	6.63		209.90	8.27	15.24	75.10	999.00	-2.61	999.00	-2.02	0.00
20	5 24 12		12.16	6.98	74.72	999.00	205.20	11.46	7.58		207.90	7.26	16.18	77.45	999.00	-2.52	999.00	-1.60	0.00
20			11.38	13.78	76.71	999.00	188.30	10.42	16.17		194.30	6.73	20.00	79.27	999.00	-2.73	999.00	-1.42	0.00
20	5 24 14		13.00	13.70	78.76	999.00	202.80	12.45	14.40		205.40	8.35	18.62	81.35	999.00	-2.52	999.00	-1.74	0.00
20	5 24 15		15.33	7.95	80.03	999.00	202.00	14.30	9.49		202.50	8.34	17.02	82.32	999.00	-2.24	999.00	-1.50	0.00
	5 24 16		13.62	9.39			219.30		9.49		215.80	8.27	14.96		999.00		999.00	-1.76	0.00
20					81.18	999.00		13.04						83.57		-2.32			
20	5 24 17	225.90	11.59	15.50	82.27	999.00	221.80	10.74	16.56	82.92	220.10	7.63	18.00	84.47	999.00	-2.42	999.00	-1.76	0.00
20	5 24 18	215.00	14.86	5.74	82.88	999.00	208.90	13.77	7.20	83.55	206.20	8.05	16.33	85.05	999.00	-2.02	999.00	-1.38	0.00
	5 24 19		14.15	5.76	83.26	999.00		13.38	6.51		211.60	7.48	13.47		999.00		999.00	-1.12	0.00
	5 24 20		13.53	3.35		999.00		12.66	3.54		210.00	5.53	11.17		999.00		999.00	0.52	0.00
	5 24 21		16.79	2.51		999.00		14.37	2.96		191.50	5.32	11.08		999.00		999.00	1.17	0.00
	5 24 22		16.37	3.91		999.00		13.78	3.81		188.00	4.30	11.45		999.00		999.00	1.86	0.00
	5 24 23		19.96	1.11	81.08	999.00		15.46	1.75		200.30	4.32	10.55		999.00		999.00	2.44	0.00
	5 24 24		19.29	1.92		999.00		14.79	3.38		192.90	3.85	11.60		999.00		999.00	2.43	0.00
	5 25 1		17.58	3.04	77.79	999.00	215.00	13.41	2.97	77.10	191.40	3.44	8.72	74.90	999.00	2.99	999.00	2.30	0.00
20	5 25 2	238.00	18.17	3.21	76.76	999.00	224.40	14.63	3.57	75.99	204.70	3.49	15.06	73.25	999.00	3.02	999.00	2.60	0.00
	5 25 3		16.31	2.07	74.90	999.00	247.10	12.95	2.64	74.78	214.90	4.01	9.50	72.30	999.00	2.32	999.00	2.24	0.00
20	5 25 4	249.50	15.84	2.80	73.11	999.00	240.70	12.55	4.07	72.89	206.40	3.98	10.48	71.13	999.00	1.93	999.00	1.68	0.00

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20 5 25 5 251.10	15.10 1.92		999.00 240.60	11.96	2.68	72.89 199				999.00		999.00	2.27	0.00
20 5 25 6 226.60	13.33 2.53		999.00 209.90	12.47	1.75	71.33 186			68.63	999.00	2.85	999.00	2.62	0.00
20 5 25 7 212.90	11.03 3.1	5 70.79	999.00 193.00	10.80	2.78	70.55 167	7.50 3.33	15.45	67.64	999.00	2.79	999.00	2.30	0.00
20 5 25 8 212.90	11.29 3.29	70.79	999.00 201.90	8.76	5.52	70.55 202	2.10 3.97	17.02	67.64	999.00	-0.32	999.00	-0.40	0.00
20 5 25 9 217.50	6.96 8.80	69.86	999.00 209.40	6.25	10.15	70.50 198	8.90 4.25	17.76	71.22	999.00	-2.04	999.00	-1.15	0.00
20 5 25 10 212.80	5.92 6.20	5 71.37	999.00 210.90	5.47	8.91	72.15 220	0.60 3.93	13.68	73.20	999.00	-1.92	999.00	-1.22	0.00
20 5 25 11 223.60	6.90 6.23	3 72.58	999.00 216.30	6.53	8.77	73.18 222	2.40 5.47	14.66	74.63	999.00	-2.30	999.00	-1.64	0.00
20 5 25 12 224.70	5.25 14.70	75.42	999.00 221.20	5.17	16.14	76.44 228	8.10 4.72	24.26	77.95	999.00	-2.75	999.00	-1.81	0.00
20 5 25 13 106.90	5.86 44.9		999.00 92.70	5.92	43.17		5.69 5.09		80.20	999.00	-2.17		-1.11	0.00
20 5 25 14 103.50	8.11 3.1		999.00 92.70	8.55	5.61		2.10 7.08		78.72	999.00	-0.92	999.00	-1.27	0.00
20 5 25 15 89.20	8.53 8.03		999.00 80.20	7.71	9.66		0.10 6.83		79.72	999.00	-1.95	999.00	-1.53	0.00
20 5 25 16 98.90	12.47 2.5		999.00 92.30	12.78	4.54		5.30 8.26		79.98	999.00	-1.20	999.00	-1.25	0.00
20 5 25 17 110.00	14.85 5.2		999.00 103.40	12.09	8.69	77.33 108			77.10	999.00	0.22	999.00	-0.50	0.00
20 5 25 18 143.90	9.18 7.72		999.00 132.00	8.93	8.36	77.33 131			77.10	999.00	-2.08	999.00	-1.43	0.00
20 5 25 10 143.30	8.70 5.0		999.00 157.20	7.78	5.86	79.54 156			80.45	999.00	-0.83	999.00	-0.36	0.00
			999.00 137.20			79.68 220			79.20			999.00		0.00
				13.51 8.15	7.74 6.21	76.76 213			76.85	999.00	-0.22 -0.84		-0.12	0.00
	9.28 5.5									999.00		999.00	-0.42	
20 5 25 22 183.10	8.28 39.0		999.00 168.50	7.91	46.96	75.39 140			75.27	999.00	0.11	999.00	0.07	0.00
20 5 25 23 170.40	8.65 5.03		999.00 146.90	7.59	2.51	999.00 132			74.07	999.00	2.07	999.00	1.78	0.00
20 5 25 24 178.80	7.83 1.25		999.00 176.70	6.49	1.02	999.00 178			73.57	999.00	4.84	999.00	3.24	0.00
20 5 26 1 181.90	10.22 4.40		999.00 171.10	10.68	2.97	76.60 159			72.68	999.00	5.63	999.00	5.55	0.00
20 5 26 2 180.80	14.78 1.80		999.00 165.70	12.85	1.89	75.56 152			72.28	999.00	3.94	999.00	3.32	0.00
20 5 26 3 197.00	13.27 2.43		999.00 191.00	9.38	1.91	73.23 206			70.85	999.00	5.02	999.00	2.04	0.00
20 5 26 4 221.90	10.84 3.3		999.00 223.30	7.51	4.11	71.25 276			69.61	999.00	2.41	999.00	1.65	0.00
20 5 26 5 225.90	11.33 2.0			7.22	2.03	70.52 259			68.07	999.00	4.33	999.00	2.38	0.00
20 5 26 6 226.20	10.50 2.69	73.43	999.00 206.20	7.88	2.17	70.25 146	6.50 2.13		67.96	999.00	7.03	999.00	2.93	0.00
20 5 26 7 210.70	9.22 1.58	3 74.41	999.00 202.20	10.35	2.29	72.12 173		14.37	68.04	999.00	6.67	999.00	5.52	0.00
20 5 26 8 204.90	12.66 2.6	75.08	999.00 195.80	10.44	3.21	73.24 188	8.60 5.08	9.70	69.67	999.00	3.77	999.00	0.78	0.00
20 5 26 9 200.70	6.03 8.18	3 73.44	999.00 196.60	5.26	9.41	73.09 185	5.70 3.54	16.57	73.52	999.00	-1.55	999.00	-0.33	0.00
20 5 26 10 198.80	5.60 11.8	75.66	999.00 192.30	5.20	14.93	77.25 197	7.00 3.98	22.96	77.95	999.00	-2.44	999.00	-0.95	0.00
20 5 26 11 190.90	2.83 47.9	78.17	999.00 152.00	2.48	50.13	79.86 152	2.70 2.69	33.07	80.40	999.00	-2.27	999.00	-0.62	0.00
20 5 26 12 114.90	6.09 13.42	79.13	999.00 103.40	6.39	11.95	79.68 98	8.30 5.19	18.58	80.43	999.00	-1.53	999.00	-1.31	0.00
20 5 26 13 116.90	8.97 5.33	3 79.70	999.00 105.40	8.58	7.35	80.22 112	2.90 6.16	15.28	81.97	999.00	-2.32	999.00	-1.79	0.00
20 5 26 14 97.60	11.23 1.53	L 80.18	999.00 86.50	12.39	2.80	80.13 87	7.00 8.36	13.86	81.23	999.00	-1.02	999.00	-1.56	0.00
20 5 26 15 93.50	13.51 1.72	79.87	999.00 85.40	14.05	3.32	79.38 90	0.40 9.34	11.45	80.20	999.00	-0.03	999.00	-0.94	0.00
20 5 26 16 91.90	14.03 2.43	80.69	999.00 85.60	13.82	2.90	80.29 95	5.60 5.91	16.31	80.38	999.00	1.60	999.00	0.80	0.00
20 5 26 17 98.10	14.00 4.02	999.00	999.00 92.30	11.60	8.46	999.00 95	5.80 7.48	15.77	80.17	999.00	-0.76	999.00	-1.31	0.00
20 5 26 18 103.90	15.66 3.43	3 78.68	999.00 102.10	12.80	6.91	77.29 101	1.80 5.30	17.86	77.30	999.00	1.48	999.00	0.03	0.00
20 5 26 19 111.80	14.69 5.7	78.42	999.00 106.00	13.22	7.80	76.95 109	9.80 6.97		76.68	999.00	0.79	999.00	-0.49	0.00
20 5 26 20 111.90	18.12 3.2		999.00 106.50	14.08	5.43	74.72 118			75.03	999.00	0.61	999.00	-0.25	0.00
20 5 26 21 113.00	18.80 3.33		999.00 103.00	16.13	4.14		0.00 6.85		75.03	999.00	2.50	999.00	1.46	0.00
20 5 26 22 114.00	22.30 2.03		999.00 108.20	19.85	3.07	73.50 111			72.30	999.00	1.68	999.00	0.77	0.00
20 5 26 23 122.20	17.98 4.20		999.00 107.30	16.14	4.64	72.88 114				999.00		999.00	0.89	0.00
20 5 26 24 164.10			999.00 135.60	12.36		999.00 108			70.36			999.00	7.39	0.00
20 5 27 1 176.40	16.41 1.60		999.00 160.30	13.83	2.10	78.27 129					999.00		7.97	0.00
20 5 27 1 170.40	15.88 2.19		999.00 168.60	12.87	2.10	77.25 134				999.00		999.00	4.49	0.00
20 5 27 2 107.00	17.70 1.30		999.00 180.60	13.99	2.35	76.14 164				999.00		999.00	4.43	0.00
20 5 27 4 197.30	20.47 0.8		999.00 186.80	16.38	1.55	75.51 176				999.00		999.00	3.52	0.00
20 5 27 4 197.30	19.37 1.48		999.00 178.80	14.73	2.24	74.31 174				999.00		999.00	2.86	0.00
										999.00				
20 5 27 6 187.30			999.00 177.10	15.95	1.76	72.92 181						999.00	1.86	0.00
20 5 27 7 181.00	17.85 2.73		999.00 171.70	14.54	3.24	71.85 177				999.00		999.00	0.72	0.00
20 5 27 8 178.50	15.37 3.6	± /1.08	999.00 169.60	12.46	4.78	71.04 170	0.30 4.52	17.20	10.85	999.00	-0.38	999.00	-0.20	0.00

00 5 07 0 100 20	10 17 6 6	1 70 60	000 00 170 70	10 50	0.06	71 14 1	70 00	4 0 6	1001	70.00	000 00	1 67	000 00	1 00	0 00
20 5 27 9 180.30	12.17 6.3		999.00 172.70	10.59	8.06	71.14 1		4.86	19.84		999.00		999.00	-1.00	0.00
20 5 27 10 181.00	11.67 6.2		999.00 172.60	10.79	7.01	71.80 1		5.23	19.26	72.82	999.00	-1.77	999.00	-1.07	0.00
20 5 27 11 189.30	11.34 7.9		999.00 183.00	10.89	7.97	73.00 1		6.01	19.69	74.07	999.00		999.00	-1.04	0.00
20 5 27 12 186.00	8.54 10.5		999.00 178.80	8.36	13.28	74.03 1		5.74	19.37	75.18	999.00	-2.23	999.00	-1.13	0.00
20 5 27 13 214.10	10.53 8.9		999.00 209.20	9.99	9.99	75.14 2		5.68	16.91	76.28	999.00	-1.81	999.00	-1.16	0.00
20 5 27 14 201.40	8.83 9.8		999.00 196.40	8.42	10.21	75.13 1		5.81	20.68	76.25	999.00	-2.15	999.00	-1.07	0.00
20 5 27 15 175.90	11.53 7.1		999.00 167.10	11.23	7.66	76.97 1		5.84	23.41	78.45	999.00	-2.21	999.00	-1.34	0.00
20 5 27 16 177.40	8.53 12.0		999.00 171.80	7.90	12.38	78.78 1		4.83	28.02	80.03	999.00	-2.37	999.00	-1.23	0.00
20 5 27 17 110.70	7.69 11.7		999.00 93.70	9.76	6.35	78.35	93.20	8.84	9.66	79.13	999.00	0.54	999.00	-0.43	0.00
20 5 27 18 106.50	16.23 2.6		999.00 102.40	15.91	4.18	74.45 1		6.21	14.43	74.70	999.00	1.14	999.00	0.32	0.00
20 5 27 19 111.00	16.43 1.9		999.00 101.20	15.23	3.68	74.15 1		5.98	12.99	74.02	999.00	2.05	999.00	0.63	0.00
20 5 27 20 122.60	12.18 2.0		999.00 110.50	12.40	2.01		95.90	5.27	12.63	73.60	999.00	2.68	999.00	2.74	0.00
20 5 27 21 141.80	13.90 5.7		999.00 121.80	11.36	3.94	74.82 1		3.33	13.57	72.47	999.00	5.05	999.00	2.18	0.00
20 5 27 22 167.20	13.79 2.7	6 79.00	999.00 155.40	12.41	3.76	78.53 1	14.80	2.91	10.98	71.93	999.00	6.82	999.00	6.93	0.00
20 5 27 23 160.10	13.87 2.1	2 79.16	999.00 147.30	13.02	1.91	79.00 1	.09.80	3.38	9.58	71.75	999.00	7.25	999.00	7.37	0.00
20 5 27 24 173.00	15.22 3.6	2 78.85	999.00 161.20	14.03	2.50	78.97 1	52.60	2.50	11.25	73.35	999.00	4.44	999.00	4.62	0.00
20 5 28 1 189.70	13.59 2.7	3 78.20	999.00 178.30	12.97	3.57	77.96 1	69.00	1.81	17.87	74.52	999.00	3.77	999.00	3.84	0.00
20 5 28 2 199.90	11.48 1.7	2 76.91	999.00 187.20	10.12	1.77	76.92 1	72.50	1.68	10.20	74.15	999.00	2.95	999.00	2.89	0.00
20 5 28 3 184.20	12.88 2.3	9 76.91	999.00 170.10	10.54	2.67	76.92 1	50.40	3.12	12.40	74.15	999.00	1.09	999.00	0.93	0.00
20 5 28 4 179.60	18.51 3.8	6 74.29	999.00 170.60	15.58	5.30	74.12 1	.68.10	5.54	16.97	73.38	999.00	0.27	999.00	0.24	0.00
20 5 28 5 181.70	19.21 3.7	3 72.21	999.00 174.90	16.96	4.87	72.50 1	.80.70	6.97	19.57	72.85	999.00	-0.87	999.00	-0.54	0.00
20 5 28 6 179.70	19.84 4.7	1 70.87	999.00 173.30	17.79	5.53	71.27 1	78.70	7.84	16.93	71.88	999.00	-1.19	999.00	-0.76	0.00
20 5 28 7 181.80	19.00 3.2	9 68.06	999.00 174.60	17.08	4.20	68.55 1	77.90	6.66	18.35	69.46	999.00	-1.32	999.00	-0.85	0.01
20 5 28 8 181.60	17.80 3.4	0 65.84	999.00 175.90	15.33	4.68	66.29 1		6.39	18.27	67.16	999.00	-1.30	999.00	-0.90	0.03
20 5 28 9 186.90	14.48 4.5	9 65.84	999.00 181.30	12.74	5.76	66.29 1	.88.00	5.66	19.11	67.16	999.00	-1.50	999.00	-0.99	0.00
20 5 28 10 184.60	10.84 7.9	7 65.90	999.00 176.50	10.61	8.90	66.69 1	.82.30	6.18	19.17	67.86	999.00	-2.19	999.00	-1.11	0.00
20 5 28 11 148.50	11.22 4.8	9 67.83	999.00 140.10	11.02	6.01	68.82 1		7.25	15.33	70.32	999.00	-2.49	999.00	-1.80	0.00
20 5 28 12 189.60	7.75 16.4		999.00 181.70	7.28	15.12	68.82 1	.94.90	4.84	19.77	70.32	999.00	-2.69	999.00	-1.24	0.00
20 5 28 13 199.00	7.22 9.7	3 70.63	999.00 191.80	6.75	9.51	71.74 1	.96.70	4.72	19.81	73.00	999.00	-2.10	999.00	-1.10	0.00
20 5 28 14 214.60	16.33 7.2		999.00 209.30	14.88	8.96	71.81 2		8.56	15.80	73.07	999.00	-1.88	999.00	-1.23	0.00
20 5 28 15 206.50	16.50 6.6		999.00 200.60	15.94	7.27	72.78 1		9.84	14.75	74.35	999.00	-2.21	999.00	-1.43	0.00
20 5 28 16 207.90	13.90 8.2	1 73.74	999.00 203.10	12.50	9.65	74.43 2		7.35	18.16	76.18	999.00	-2.24	999.00	-1.53	0.02
20 5 28 17 205.70	22.04 3.7	2 74.00	999.00 200.10	18.53	6.59	74.42 2		8.24	14.79	75.45	999.00	0.20	999.00	0.12	0.00
20 5 28 18 243.80	26.34 7.1		999.00 239.00	25.33	8.28	74.42 2		18.08	10.42	75.45	999.00	-1.86	999.00	-1.27	0.00
20 5 28 19 238.70	20.01 6.1		999.00 231.10	18.94	7.28	75.37 2		12.85	10.68	76.68	999.00	-1.63	999.00	-1.08	0.00
20 5 28 20 237.30	24.37 5.1	0 74.18	999.00 230.20	22.35	5.99	74.69 2		13.29	11.80	75.58	999.00	-1.18	999.00	-0.70	0.00
20 5 28 21 240.20	18.76 3.1		999.00 233.80	16.27	4.53	74.41 2		7.89	11.08	74.80	999.00	-0.50	999.00	-0.17	0.00
20 5 28 22 236.70	17.35 1.0		999.00 228.40	14.69	1.48	73.61 2		4.83	13.00	72.75	999.00	1.83	999.00	1.71	0.00
20 5 28 23 226.60	18.55 1.2		999.00 214.00	14.93	3.31	73.25 1		4.81	11.12	71.68	999.00	2.46	999.00	1.72	0.00
20 5 28 24 230.30	17.20 2.6		999.00 214.30	14.38	3.78	73.25 1		3.94	10.90	71.68	999.00	3.31	999.00	2.33	0.00
20 5 29 1 217.50	19.41 2.5		999.00 202.40	16.69	5.91	72.62 1		4.75	14.78	70.68	999.00	3.71	999.00	2.23	0.00
20 5 29 2 217.80	19.83 2.1		999.00 202.20	16.11	3.06	72.63 1		4.68	13.76	70.60	999.00	2.92	999.00	1.68	0.00
20 5 29 3 234.40	13.89 3.0		999.00 216.40	11.37	3.58	72.63 1		3.84	12.51		999.00		999.00	0.42	0.00
	17.65 4.6			14.68	4.78	69.01 2			14.34				999.00	1.08	0.00
20 5 29 5 209.30	17.99 2.8		999.00 197.70	14.91	3.82	68.21 1			15.07		999.00		999.00	0.54	0.00
20 5 29 6 226.00	16.23 2.1		999.00 216.40	13.27	1.79	67.03 2			12.84		999.00		999.00	0.64	0.00
20 5 29 7 221.40	18.37 3.8		999.00 212.40	15.25	4.93	66.74 2		5.82	13.62		999.00		999.00	-0.23	0.00
20 5 29 8 224.20	16.69 6.2		999.00 214.90	14.50	6.71	66.80 2		7.29	15.38		999.00		999.00	-0.96	0.00
20 5 29 9 233.00	18.30 5.5		999.00 226.50	17.04	6.53	66.80 2		9.56	14.22		999.00		999.00	-1.19	0.00
20 5 29 10 230.70	19.40 4.6		999.00 223.70	18.27	5.41	68.06 2		11.74	12.03		999.00		999.00	-1.46	0.00
20 5 29 11 238.10	20.98 11.5		999.00 232.10	19.95	12.34	70.12 2		13.85	16.23		999.00		999.00	-1.93	0.00
20 5 29 12 248.20	22.40 5.3	4 /0.56	999.00 243.20	21.87	6.45	71.10 2	38.40	15.26	11.72	12.63	999.00	-2.21	999.00	-1.69	0.00

0.0	F 00 10	040 00	00 60	0 10	70 05	000 00	004 00	1004	11 00	71 20	000 00	10 11	1.4.07	70 70	000 00	1 70	000 00	1 10	0 10
	5 29 13		20.63	8.19	70.85	999.00		19.04	11.22		232.30	13.11	14.27		999.00		999.00	-1.18	0.13
	5 29 14		24.96	4.90	61.79	999.00	317.60	23.74	5.61		313.00	14.51	10.94	63.44	999.00	-1.48	999.00	-0.95	0.08
20	5 29 15		22.19	4.04	59.42	999.00	346.20	19.62	5.93		345.70	13.22	9.56	60.81	999.00	-1.19	999.00	-0.46	0.01
20	5 29 16	325.80	10.28	9.02	59.54	999.00	320.50	9.90	9.41	59.81	316.20	7.51	14.73	60.90	999.00	-2.07	999.00	-2.33	0.00
20	5 29 17	318.20	10.07	8.89	60.63	999.00	313.90	9.99	9.48	60.24	312.60	7.57	15.94	62.79	999.00	-2.48	999.00	-2.88	0.00
20	5 29 18	304.50	6.53	15.98	62.99	999.00	300.20	6.25	16.06	62.96	289.40	5.03	25.32	65.84	999.00	-2.84	999.00	-2.80	0.00
20	5 29 19	304.00	7.12	12.06	64.88	999.00	299.90	6.46	14.52	65.48	295.60	5.13	26.27	68.16	999.00	-3.42	999.00	-2.38	0.00
20	5 29 20	276.40	4.19	14.36	66.03	999.00	277.00	3.59	15.54		283.40	2.24	15.45	67.69	999.00	-0.63	999.00	0.02	0.00
20	5 29 21		4.29	14.91	66.81	999.00	241.30	3.96	16.21		212.10	2.38	20.28	67.47	999.00	-0.78	999.00	-0.32	0.00
20	5 29 22		5.93	2.39	66.74	999.00	182.00	6.44	2.43		148.90	1.66	11.05	65.95	999.00	1.36	999.00	1.37	0.00
20	5 29 23		11.99	3.81	66.16	999.00	184.70	10.82	2.80		176.90	3.00	15.46	64.42	999.00	1.47	999.00	1.55	0.00
20	5 29 24		12.86	10.12	64.75	999.00	230.40	10.02	13.78		233.90	5.39	16.00	63.59	999.00	0.59	999.00	0.14	0.00
			14.28	6.72	64.73	999.00	308.00	12.40	8.73				23.40		999.00		999.00		0.00
20		316.80								64.17		5.43		63.67		0.19		0.41	
20	5 30 2		14.37	5.21	63.30	999.00	306.90	13.12	5.80		291.60	6.68	11.52	63.50	999.00	-0.33	999.00	0.06	0.00
20	5 30 3		12.71	5.99	61.64	999.00	295.40	11.07	6.11		270.70	5.45	8.85	61.61	999.00	0.15	999.00	0.53	0.00
20	5 30 4	295.80	13.56	3.29	59.84	999.00	286.50	12.44	4.24		262.10	6.20	9.14	60.07	999.00	-0.19	999.00	0.09	0.00
20	5 30 5	296.10	17.32	3.79	57.87	999.00	288.50	15.36	3.50		269.40	6.97	9.02	57.98	999.00	0.44	999.00	0.59	0.00
20	5 30 6	297.10	15.29	3.29	56.49	999.00	284.40	13.42	4.09		260.30	6.21	9.02	56.32	999.00		999.00	0.11	0.00
20	5 30 7	298.90	12.88	2.03	55.96	999.00	282.00	11.18	4.64		253.90	6.77	8.52	55.56	999.00	-0.02	999.00	-0.22	0.00
20	5 30 8	301.50	13.98	6.70	55.58	999.00	294.10	13.03	6.74	55.83	281.60	9.01	11.41	56.86	999.00	-1.96	999.00	-1.41	0.00
20	5 30 9	313.00	16.54	6.05	56.50	999.00	308.60	16.29	6.47	57.06	304.00	11.65	14.60	58.73	999.00	-2.62	999.00	-2.06	0.00
20	5 30 10	318.10	14.78	6.90	57.27	999.00	310.50	15.20	7.00	57.84	302.80	11.22	11.89	60.28	999.00	-3.07	999.00	-2.51	0.00
20	5 30 11	320.40	17.02	7.55	59.02	999.00	314.80	16.55	6.77	59.62	311.40	11.72	13.30	62.10	999.00	-3.15	999.00	-2.53	0.00
20	5 30 12	315.70	15.03	7.93	60.08	999.00	311.10	14.88	8.24	60.67	306.50	10.96	14.15	63.22	999.00	-3.22	999.00	-2.60	0.00
20	5 30 13	321.00	16.18	8.16	60.08	999.00	315.00	16.17	7.14	60.67	311.70	12.31	13.71	63.22	999.00	-3.13	999.00	-2.59	0.00
20	5 30 14	320.10	16.93	6.78	62.21	999.00	314.20	16.55	6.50	62.80	311.70	12.72	14.38	65.51	999.00	-3.43	999.00	-2.82	0.00
20	5 30 15		16.66	7.29	63.10	999.00	315.20	16.31	7.54	63.70	312.90	12.21	15.69	66.35	999.00	-3.27	999.00	-2.70	0.00
20	5 30 16	330.90	12.68	11.62	63.10	999.00	326.00	12.44	10.73	63.70	323.80	9.16	16.70	66.35	999.00	-3.18	999.00	-2.51	0.00
20		333.00	9.02	11.71	64.44	999.00	329.10	8.72	11.93	65.09	332.50	7.40	12.82	67.22	999.00	-2.41	999.00	-1.78	0.00
20	5 30 18		9.70	8.90	64.78	999.00	341.10	9.36	8.59		346.90	7.74	13.30	67.11	999.00	-1.91	999.00	-1.23	0.00
20	5 30 19		8.05	7.92	65.44	999.00	354.50	7.76	9.81		356.70	7.50	15.53	67.73	999.00	-1.76	999.00	-1.20	0.00
20	5 30 20		14.29	4.30	65.00	999.00	325.30	12.97	4.84		319.80	8.05	10.97	66.56	999.00	-1.65	999.00	-1.12	0.00
	5 30 20	333.10	15.68	3.43	65.09	999.00	326.30	14.19	3.71		319.20	7.11	9.37	65.69	999.00	-0.07	999.00	0.14	0.00
20	5 30 21		19.97	5.80	63.96	999.00	332.10	17.86	6.86	64.34	328.10	10.09	12.06	64.50	999.00	-0.74	999.00	-0.32	0.00
20	5 30 22	52.57	15.31	8.04	59.41	999.00	45.52	13.77	8.78	59.94	44.84	12.10	10.78	61.05	999.00	-1.85	999.00	-1.27	0.00
	5 30 23		14.80	7.83			38.36			57.86	39.15	12.10							0.00
20		45.04			57.27	999.00		12.81	8.34				10.96	59.14	999.00	-1.86	999.00	-1.28	
20	5 31 1	49.70	15.29	5.50	55.77	999.00	44.42	14.55	6.84	56.36	43.08	14.09	9.12	57.68	999.00	-1.95	999.00	-1.35	0.00
20	5 31 2	55.87	15.44	8.23	54.73	999.00	50.00	14.16	9.52	55.34	52.18	11.50	12.33	56.60	999.00	-1.84	999.00	-1.22	0.00
	5 31 3	63.40	14.08	5.81	53.67	999.00	57.90	13.49	5.93	54.25	67.56	9.33	10.53	55.31	999.00	-1.42	999.00	-0.87	0.00
20	5 31 4	50.10	10.56	10.16	52.82	999.00	44.39	10.10	10.89	53.39	48.83	9.01	12.90	54.41	999.00	-1.76	999.00	-1.18	0.00
20		43.34	7.43	12.02	52.13	999.00	37.81	6.49	10.74	52.70	30.03	7.90	11.68	53.91	999.00	-1.84	999.00	-1.29	0.00
20		5.97	11.85	8.47	51.32	999.00	0.26	11.22	7.63	51.90	1.63	9.16	14.91	53.23	999.00	-1.86	999.00	-1.27	0.00
	5 31 7	357.30	11.01	10.19		999.00	351.90	10.29	9.57	51.90	347.90	7.31	12.19		999.00	-1.77	999.00	-1.22	0.00
20	5 31 8	358.50	16.67	4.89	50.70	999.00	353.10	15.96	5.56	51.26	351.10		9.73	52.79	999.00	-2.24	999.00	-1.69	0.00
20	5 31 9	1.97	15.17	5.75		999.00	356.50	14.41	6.79	49.77	355.10	12.38	10.09		999.00		999.00	-1.77	0.00
20	5 31 10	6.78	13.48	11.23	48.78	999.00	0.95	12.89	11.01	49.24	1.59	12.68	13.08	50.91	999.00	-2.17	999.00	-1.74	0.00
20	5 31 11	12.72	10.94	13.18	48.61	999.00	7.73	10.60	13.65	49.14	7.47	10.30	18.10	50.62	999.00	-1.94	999.00	-1.40	0.00
20	5 31 12	355.70	12.18	9.39		999.00		11.90	10.56		353.20		15.10	50.38	999.00		999.00	-1.50	0.00
20	5 31 13	3.45	9.80	16.63		999.00	0.04	9.08	15.62	48.94	357.70	8.79	17.75	50.38	999.00	-1.92	999.00	-1.26	0.00
	5 31 14	17.79	8.23	18.68		999.00	11.29		17.95	50.97	2.41	8.03	17.53	52.64	999.00		999.00	-1.43	0.00
	5 31 15			14.02		999.00	64.41		13.12		67.38		18.09		999.00		999.00	-1.88	0.00
	5 31 16		7.40			999.00			23.03		95.90		37.11		999.00		999.00	-1.97	0.00
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20 5 31 17 111.00	6.68 12.13		999.00 102.70	6.74	13.45		103.70	5.45	23.15		999.00		999.00	-1.93	0.00
20 5 31 18 113.30	5.66 12.73		999.00 109.80	5.84	12.07		117.80	5.03	22.12	56.35	999.00		999.00	-1.66	0.00
20 5 31 19 128.50	5.87 9.93		999.00 121.40	6.07	9.92		134.30	4.82	22.55		999.00		999.00	-1.58	0.00
20 5 31 20 139.80 20 5 31 21 174.80	6.66 8.20 5.94 6.1		999.00 130.10 999.00 163.20	6.57 5.27	10.13		129.40 181.50	4.30 2.18	20.45 25.98	57.57 57.27	999.00 999.00	-1.76 -0.79	999.00 999.00	-1.00	0.00
20 5 31 21 174.80 20 5 31 22 183.60	7.33 2.03		999.00 175.80	7.53	2.84		177.60	2.18	23.90	57.27	999.00	0.54	999.00	-0.49 0.73	0.00
20 5 31 22 183.00	9.50 2.23		999.00 173.80	9.93	3.11		194.90	2.76	17.38	55.03	999.00	1.40	999.00	1.58	0.00
20 5 31 23 181.20	13.62 1.05		999.00 188.90	13.13	1.66		201.40	3.91	12.61	54.57	999.00	1.70	999.00	1.58	0.00
20 6 1 1 196.80	17.62 2.19		999.00 189.40	14.47	2.84		200.80	4.81	15.77	53.20	999.00	2.15	999.00	0.88	0.00
20 6 1 2 208.10	18.47 0.89		999.00 200.00	14.10	1.71		200.50	5.54	11.33	52.16	999.00	2.40	999.00	0.72	0.00
20 6 1 3 213.20	19.53 1.7			14.88	2.97		218.20	5.42	10.52	50.78	999.00	2.40	999.00	0.81	0.00
20 6 1 4 214.10	21.60 1.08		999.00 209.60	15.40	3.07		221.80	5.24	9.50	49.75	999.00	4.33	999.00	1.39	0.00
20 6 1 5 219.40	21.10 1.13		999.00 216.90	14.99	1.45		211.10	5.41	11.53	49.21	999.00	4.89	999.00	1.83	0.00
20 6 1 6 226.60	18.78 2.62		999.00 221.10	12.98	3.24		216.10	4.51	11.20	48.70	999.00	3.51	999.00	1.42	0.00
20 6 1 7 235.30	18.36 1.1		999.00 232.40	13.58	2.18		221.90	5.64	8.85	48.40	999.00	3.71	999.00	1.78	0.00
20 6 1 8 230.10	14.65 4.72		999.00 224.80	10.18	7.46		221.20	6.04	9.88	50.01	999.00	0.77	999.00	-0.59	0.00
20 6 1 9 236.50	9.06 5.7		999.00 226.20	8.77	6.83		215.00	6.55	12.38	54.28	999.00	-2.17	999.00	-1.68	0.00
20 6 1 10 243.30	11.10 5.8		999.00 240.10	11.11	6.72		239.90	9.09	11.33	59.04	999.00	-2.76	999.00	-2.13	0.00
20 6 1 11 222.80	10.41 5.5		999.00 215.80	9.98	7.86		210.70	7.37	16.97	62.85	999.00	-2.90	999.00	-2.21	0.00
20 6 1 12 228.40	7.70 20.50		999.00 221.00	7.29	18.55		229.90	6.98	20.39	65.04	999.00	-2.94	999.00	-1.99	0.00
20 6 1 13 232.70	8.80 12.88	63.93	999.00 224.40	8.52	14.31		222.70	7.07	20.13	66.79	999.00	-2.99	999.00	-2.20	0.00
20 6 1 14 221.50	9.90 17.8	7 65.54	999.00 215.00	8.94	20.98		224.60	7.87	18.58	68.49	999.00	-2.92	999.00	-1.97	0.00
20 6 1 15 240.70	11.65 14.3	1 67.16	999.00 236.20	11.35	15.30	67.85	232.60	8.93	17.24	70.01	999.00	-2.79	999.00	-2.14	0.00
20 6 1 16 245.00	12.03 10.3	4 68.55	999.00 239.30	11.52	11.72	69.16	236.10	8.78	15.71	71.10	999.00	-2.67	999.00	-2.10	0.00
20 6 1 17 255.80	15.23 6.39	999.00	999.00 251.50	14.13	7.50	999.00	244.90	9.99	11.70	71.57	999.00	-1.93	999.00	-1.35	0.00
20 6 1 18 242.50	16.00 7.33	1 70.01	999.00 236.70	15.15	7.86	70.59	229.70	10.45	11.91	71.98	999.00	-1.79	999.00	-1.23	0.00
20 6 1 19 239.50	14.71 7.88	3 70.28	999.00 234.20	13.85	8.53	70.83	229.60	8.36	14.57	71.80	999.00	-1.40	999.00	-0.86	0.00
20 6 1 20 237.30	16.75 4.9	69.81	999.00 230.60	15.63	5.46	70.33	225.80	9.18	11.50	71.05	999.00	-1.11	999.00	-0.61	0.00
20 6 1 21 239.90	15.00 2.6	7 68.87	999.00 234.60	12.94	4.13	69.27	226.30	6.31	9.64	69.67	999.00	-0.51	999.00	-0.22	0.00
20 6 1 22 229.90	13.60 3.85	5 68.24	999.00 220.50	11.87	4.77		206.10	4.25	12.97	68.07	999.00	0.55	999.00	0.83	0.00
20 6 1 23 238.40	10.86 3.69		999.00 236.60	8.10	5.68		250.50	3.12	21.55	66.79	999.00	0.80	999.00	0.70	0.00
20 6 1 24 220.10	13.93 2.0		999.00 212.30	11.28	2.47		192.80	3.03	13.01	65.26	999.00	1.70	999.00	1.68	0.04
20 6 2 1 188.20	17.92 1.5		999.00 177.70	16.20	1.90		172.50	4.34	18.08	63.14	999.00	3.36	999.00	3.04	0.00
20 6 2 2 198.80	18.90 3.73		999.00 187.90	16.03	5.20		184.00	6.00	17.07	63.41	999.00	0.27	999.00	0.05	0.00
20 6 2 3 209.00	16.52 3.18		999.00 200.00	13.79	3.37		196.80	5.54	11.75	64.25	999.00	0.05	999.00	-0.06	0.00
20 6 2 4 208.50	21.35 2.7		999.00 198.70	16.80	3.67		195.50	6.91	13.18	63.49	999.00	1.15	999.00	0.49	0.00
20 6 2 5 210.90	22.58 3.38		999.00 202.80	18.68	4.36		200.80	7.44	12.43	63.15	999.00	0.57	999.00	0.29	0.00
20 6 2 6 213.30	23.20 3.83		999.00 204.50	20.16	4.62		200.90	8.88	15.28	63.48	999.00	-0.19	999.00	-0.20	0.00
20 6 2 7 226.30 20 6 2 8 237.00	23.32 4.73		999.00 218.20 999.00 228.70	20.07	5.24		212.20 221.60	9.41	14.86	64.24	999.00	-0.32	999.00	-0.21	0.00
20 6 2 8 237.00 20 6 2 9 246.50	23.64 4.63 25.46 5.73		999.00 228.70 999.00 240.20	20.90 24.09	5.47 6.62		234.10	11.46 17.03	12.21 10.37	66.43 69.40	999.00 999.00	-0.72 -1.71	999.00 999.00	-0.39 -1.21	0.00
20 6 2 9 240.30	23.88 4.93		999.00 247.30	23.24	5.50		239.90	16.10	9.65	70.98	999.00	-1.54	999.00	-1.21	0.00
20 6 2 10 253.00	20.71 5.98		999.00 247.70	20.21	5.80		241.90	14.63	9.37		999.00		999.00	-1.65	0.00
			999.00 254.90		6.91	73.97			12.45				999.00	-1.84	0.00
20 6 2 13 250.90	21.70 6.02		999.00 245.50	21.21	6.59	76.81		14.78			999.00		999.00	-1.79	0.00
20 6 2 14 244.30	23.14 8.33		999.00 238.10	22.08	8.84		232.90	16.50	10.73		999.00		999.00	-1.88	0.00
20 6 2 15 249.80	25.45 5.80		999.00 244.70	24.50	6.67		239.50	16.24	10.10		999.00		999.00	-1.52	0.00
20 6 2 16 255.30	26.16 8.5		999.00 250.90	24.56	9.48		245.60	16.67	13.05		999.00		999.00	-1.42	0.00
20 6 2 17 258.00	23.73 8.4		999.00 252.60	22.42	8.95		246.90	14.57	13.41		999.00		999.00	-1.24	0.00
20 6 2 18 262.40	22.92 8.72		999.00 258.90	21.39	9.57		255.00	14.39	14.67		999.00		999.00	-1.05	0.00
20 6 2 19 255.40	23.61 5.1		999.00 250.80	22.60	6.08		245.30	14.61	10.88		999.00		999.00	-0.59	0.00
20 6 2 20 256.10	23.45 4.65		999.00 250.80		5.18		245.10	13.71	9.27		999.00		999.00	0.04	0.00
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20 6 2 21 246.80	20.00 2.77	86.65 999.00 2		3.76	87.02 229.90	8.79	8.99	86.40 999.00	0.68 999.00	0.89	0.00
20 6 2 22 248.70	23.88 3.26		243.60 21.24	3.55	85.04 235.60	11.18	7.84	83.93 999.00	1.05 999.00	1.23	0.00
20 6 2 23 244.60	22.77 4.32		238.80 19.89	4.81	83.60 232.60	11.06	8.08	82.47 999.00	0.73 999.00	0.88	0.00
20 6 2 24 249.30	27.91 4.46		243.70 25.37	4.88	81.74 235.20	14.89	9.34	81.25 999.00	-0.03 999.00	0.31	0.00
20 6 3 1 251.40	28.29 3.84		245.70 26.22	4.15	79.93 238.50	15.88	8.50	79.68 999.00	-0.15 999.00	0.16	0.00
20 6 3 2 252.90	30.30 4.16		246.80 27.50	4.55	78.21 240.30	16.67	9.61	78.20 999.00	-0.34 999.00	-0.02	0.00
20 6 3 3 257.80	27.90 5.42		251.90 25.30	6.42	77.23 244.00	16.59	9.14	77.43 999.00	-0.79 999.00	-0.41	0.00
20 6 3 4 268.60	23.89 4.83		261.40 20.75	5.96	76.93 249.80	11.77	10.74	77.20 999.00	-0.33 999.00	-0.12	0.00
20 6 3 5 298.30	15.88 8.33		288.80 13.68	9.82	76.79 267.30	6.59	13.40	76.55 999.00	0.31 999.00	0.50	0.00
20 6 3 6 257.70	9.97 5.63		244.90 9.92	3.96	75.66 212.90	3.94	12.28	75.10 999.00	1.10 999.00	0.86	0.00
20 6 3 7 231.10	18.86 4.82		218.30 16.51	4.26	75.66 208.70	6.65	13.01	75.10 999.00	0.68 999.00	0.49	0.00
20 6 3 8 241.20	21.32 4.99		234.30 19.29	5.17	72.61 229.60	11.46	10.97	73.00 999.00	-1.22 999.00	-0.79	0.00
20 6 3 9 265.00	22.12 6.66		259.00 19.61	7.90	73.54 248.40	13.50	11.90	74.65 999.00	-1.85 999.00	-1.35	0.00
20 6 3 10 290.10	26.51 6.82	74.96 999.00 2	286.10 25.66	7.32	75.50 278.40	19.29	11.34	76.77 999.00	-2.12 999.00	-1.53	0.00
20 6 3 11 285.60	21.34 8.81	76.16 999.00 2	281.10 21.20	9.71	76.79 274.10	16.11	14.16	78.57 999.00	-2.48 999.00	-1.88	0.00
20 6 3 12 278.60	22.75 9.77	76.76 999.00 2	273.30 21.82	10.51	77.39 264.90	16.07	15.36	79.43 999.00	-2.65 999.00	-2.04	0.00
20 6 3 13 275.50	23.85 7.10	77.38 999.00 2	270.70 22.70	7.50	77.98 264.20	16.53	13.22	79.85 999.00	-2.48 999.00	-1.91	0.00
20 6 3 14 298.00	22.61 8.75	78.71 999.00 2	292.60 21.69	9.12	79.37 284.30	15.76	12.82	81.57 999.00	-3.01 999.00	-2.34	0.00
20 6 3 15 285.60	20.52 7.97		281.10 19.81	7.94	79.23 274.20	14.18	12.20	81.07 999.00	-1.95 999.00	-1.35	0.00
20 6 3 16 288.60	17.37 9.49	78.90 999.00 2	284.00 16.52	10.47	79.49 279.90	13.47	14.30	81.22 999.00	-2.45 999.00	-1.85	0.00
20 6 3 17 293.40	19.25 10.29	79.43 999.00 2	289.20 18.75	10.55	80.03 279.30	13.31	17.24	81.80 999.00	-2.17 999.00	-1.59	0.00
20 6 3 18 276.50	17.27 8.60		271.40 16.33	8.95	80.07 260.20	10.99	13.25	81.28 999.00	-1.61 999.00	-1.02	0.00
20 6 3 19 292.80	15.50 8.87		287.80 14.46	9.32	79.87 282.50	9.83	12.63	80.90 999.00	-1.38 999.00	-0.81	0.00
20 6 3 20 286.40	9.96 6.53		279.60 9.04	7.28	79.43 273.40	5.19	9.23	80.00 999.00	-0.81 999.00	-0.27	0.00
20 6 3 21 293.30	9.86 3.23		288.00 9.10	3.39	79.43 273.00	3.73	8.30	80.00 999.00	0.52 999.00	0.88	0.00
20 6 3 22 283.60	8.48 2.80		271.90 8.02	4.63	77.93 208.10	2.43	12.42	76.50 999.00	1.61 999.00	1.85	0.00
20 6 3 23 295.80	9.29 3.47		283.90 8.60	2.84	77.49 209.90	2.46	7.25	75.18 999.00	3.14 999.00	2.83	0.00
20 6 3 24 290.30	8.80 2.13		268.20 7.34	7.98	76.37 205.30	3.58	7.07	72.75 999.00	3.83 999.00	3.18	0.00
20 6 4 1 284.20	10.10 2.02		264.40 8.31	4.82	75.70 200.80	3.63	9.56	71.15 999.00	5.09 999.00	4.66	0.00
20 6 4 2 290.70	8.77 7.31		267.40 7.87	7.13	75.08 210.40	3.53	10.79	70.29 999.00	4.55 999.00	4.32	0.00
20 6 4 3 282.10	6.16 2.63		256.10 6.97	5.15	73.86 188.30	1.96	11.11	68.65 999.00	5.71 999.00	5.41	0.00
20 6 4 4 247.60	6.04 2.03		238.90 7.94	1.38	72.88 187.80	2.72	10.18	67.38 999.00	5.80 999.00	5.74	0.00
20 6 4 5 227.60	7.43 2.09		230.50 8.08	1.42	72.83 205.70	3.77	8.43	67.22 999.00	5.41 999.00	5.49	0.00
20 6 4 6 227.50	11.31 2.59		217.40 12.07	4.08	72.52 204.80	3.78	9.84	67.49 999.00	4.91 999.00	4.27	0.00
20 6 4 7 271.10	14.30 14.59		265.50 10.85	17.11	72.52 269.40	3.58	45.38	67.49 999.00	1.43 999.00	0.96	0.00
20 6 4 8 262.00	9.01 14.72	68.84 999.00 2		14.74	68.95 221.90	3.72	23.23	69.09 999.00	-1.07 999.00	-0.84	0.00
20 6 4 9 205.80	11.44 8.71		197.00 10.14	10.74	69.21 198.30	4.54	19.80	70.00 999.00	-1.11 999.00	-0.74	0.00
20 6 4 10 233.60	10.98 6.73		227.60 10.40	8.72	70.44 223.80	7.25	12.51	71.63 999.00	-1.84 999.00	-1.30	0.00
20 6 4 11 211.70	13.11 5.65		205.30 12.43	7.45	72.74 205.20	6.84	17.29	74.13 999.00	-2.00 999.00	-1.30	0.00
20 6 4 12 223.10	10.67 10.12		217.70 10.09	11.19	73.26 215.90	7.39	18.89	74.80 999.00	-2.51 999.00	-1.79	0.00
20 6 4 13 227.70	13.21 9.08		220.90 12.52	8.79	75.67 214.70	8.40	13.56	77.15 999.00	-2.04 999.00	-1.48	0.00
20 6 4 14 247.90	12.75 11.22		243.00 12.03	11.45	77.40 237.10	8.72	13.08	79.07 999.00	-2.30 999.00	-1.72	0.00
20 6 4 15 275.10	11.30 9.44	78.40 999.00 2		11.44	78.99 265.60	8.87	17.79	80.60 999.00	-2.40 999.00	-1.85	0.00
20 6 4 16 265.50	9.38 21.99			22.91	80.08 251.60	7.28		81.92 999.00	-2.58 999.00	-1.89	0.00
20 6 4 17 70.30	6.10 69.58		78.80 6.49	55.16	80.08 100.40	6.14	48.62	81.92 999.00	-1.21 999.00	-0.86	0.00
20 6 4 18 92.10	10.54 5.36		92.10 11.52	5.37	76.52 103.00	7.19	14.45	77.28 999.00	-1.33 999.00	-0.89	0.00
20 6 4 19 114.10	14.73 2.71	76.74 999.00		5.28	77.06 116.40	6.08	14.83	78.34 999.00	-0.86 999.00	-1.11	0.00
20 6 4 20 124.00	14.40 1.87	77.31 999.00		3.69	77.14 124.30	4.84	15.24	76.75 999.00	0.92 999.00	0.43	0.00
20 6 4 21 128.40	12.08 1.15	77.51 999.00		1.04	77.28 122.10	4.97	12.11	76.28 999.00	1.29 999.00	1.56	0.00
20 6 4 22 146.20	10.84 3.58	76.79 999.00		3.51	76.36 113.00	5.03	11.07	74.94 999.00	2.59 999.00	1.27	0.00
20 6 4 23 179.50	14.77 4.37	76.38 999.00		5.08	75.59 148.20	3.61	19.67	73.28 999.00	2.11 999.00	2.02	0.00
20 6 4 24 195.80	13.10 3.63	74.63 999.00	186.80 11.45	3.99	74.85 191.20	4.14	16.74	74.53 999.00	-0.76 999.00	-0.44	0.00

20	6	5 1		14.11	2.30		999.00		11.97	3.14		197.70	4.27	11.42		999.00	-0.31	999.00	-0.10	0.00
20	6	5 2	224.60	13.93	3.82	72.12	999.00	213.60	11.36	3.70	72.34	208.30	4.43	10.36	72.54	999.00	-0.31	999.00	-0.17	0.00
20	6	5 3	235.00	13.42	4.52	72.12	999.00	213.20	11.51	3.22	71.56	196.30	4.22	7.90	71.36	999.00	1.94	999.00	0.60	0.00
20	6	5 4	245.30	15.29	3.59	71.65	999.00	225.90	12.73	2.14	70.72	214.10	4.99	8.58	70.31	999.00	2.34	999.00	0.56	0.00
20	6	5 5	281.50	13.34	4.35	73.33	999.00	263.80	12.91	5.52	71.57	237.60	4.72	9.40	69.71	999.00	3.52	999.00	2.85	0.00
20	6	5 6	324.40	11.30	7.66	72.59	999.00	297.40	9.88	7.67		256.90	3.98	9.03	69.54	999.00	3.62	999.00	2.26	0.00
20	6	5 7	322.40	8.62	3.84	72.33	999.00	298.30	7.18	6.42		224.20	2.73	14.29	69.20	999.00	1.58	999.00	1.48	0.00
20	6	5 8	249.40	4.03	8.79	69.84	999.00	228.60	4.90	7.27	69.68	213.60	3.88	10.88	69.54	999.00	-1.03	999.00	-1.01	0.00
20	6	5 9	303.40	7.62	8.92	70.04	999.00	297.30	7.76	7.31		283.50	6.13	12.02	71.82	999.00	-2.70	999.00	-2.07	0.00
20	6	5 10	344.30	4.49	18.94	73.14	999.00	329.80	4.44	23.60	73.68	316.40	3.38	27.04	76.11		-2.84	999.00	-2.30	0.00
20	6	5 11	4.09	3.34	16.47	76.56	999.00	5.68	3.59	15.72	77.35	12.95	3.84	18.92	79.13	999.00	-1.37	999.00	-0.56	0.00
20	6	5 12	54.49	3.36	21.98	76.56	999.00	37.48	2.67	24.95	77.35	28.98	3.68	18.44	79.13	999.00	-0.57	999.00	0.19	0.00
20	6	5 13	76.70	4.71	18.74	79.00	999.00	81.20	5.67	14.12	79.64	91.30	5.53	19.13	80.49	999.00	-1.35	999.00	-1.14	0.00
20	6	5 14	96.00	5.56	12.50	78.59	999.00	90.20	6.11	11.72	79.14	88.40	5.30	18.77	80.70	999.00	-2.37	999.00	-1.73	0.00
20	6	5 15	84.40	7.12	9.18	79.07	999.00	77.70	7.34	9.89	79.76	82.90	6.45	16.29	81.54	999.00	-2.42	999.00	-1.63	0.00
20	6	5 16	50.65	6.41	12.31	81.12	999.00	50.94	6.93	8.66	81.72	54.18	6.69	11.85	83.04	999.00	-0.96	999.00	-0.67	0.00
20	6	5 17	106.00	8.40	5.28	81.25	999.00	100.00	8.18	5.45	81.83	111.00	4.91	14.36	83.09	999.00	-0.78	999.00	-0.64	0.00
20	6	5 18	327.90	28.62	4.78	79.56	999.00	324.80	27.87	5.12	79.74	323.40	17.12	11.58	79.46	999.00	-0.32	999.00	-0.52	0.00
20	6	5 19	221.70	9.43	14.07	71.36	999.00	213.30	8.23	13.41	71.37	201.10	4.56	13.90	69.28	999.00	-0.47	999.00	-0.24	0.00
20	6	5 20	193.30	13.34	3.29	73.29	999.00	182.50	11.39	5.33		194.80	4.95	16.82	72.14	999.00	2.23	999.00	0.52	0.00
20	6	5 21	208.00	11.39	5.47	75.90	999.00	190.70	12.74	3.17	74.22	204.50	5.00	11.95	72.49	999.00	5.92	999.00	5.01	0.00
20	6	5 22	222.20	14.39	3.00	999.00	999.00	210.00	14.16	1.81	999.00	210.00	5.10	10.16	70.69	999.00	6.71	999.00	3.96	0.00
20	6	5 23	238.90	16.04	2.87	999.00	999.00	224.50	13.74	1.96	999.00	220.30	5.12	9.60	71.08	999.00	6.23	999.00	3.60	0.00
20	6	5 24	282.00	18.14	4.11	78.49	999.00	266.70	14.81	5.37		242.10	4.57	11.38	71.68	999.00	7.34	999.00	5.32	0.00
		6 1	311.90				999.00	298.80				275.70		5.79		999.00				0.00
20	6			18.13	4.30	78.56			16.36	4.92			5.20		72.72		5.01	999.00	4.42	
20	6	6 2	317.40	14.33	3.63	76.17	999.00	305.20	12.55	4.30		276.90	4.61	7.66	72.29	999.00	2.46	999.00	2.54	0.00
20	6	6 3	334.00	16.45	2.71	74.17	999.00	323.40	13.88	3.51		305.00	5.64	9.41	71.82	999.00	2.80	999.00	2.72	0.00
20	6	6 4	339.80	13.51	4.69	73.14	999.00	329.60	11.49	6.13	73.34	311.50	5.01	12.31	71.11	999.00	1.86	999.00	2.18	0.00
20	6	6 5	328.90	11.84	2.93	71.43	999.00	318.50	11.26	3.33		303.10	5.18	10.69	70.32	999.00	-0.16	999.00	0.22	0.00
20	6	6 6	342.40	10.00	2.21	70.32	999.00	334.50	8.90	4.16		358.30	2.98	23.06	70.27	999.00	0.13	999.00	0.34	0.00
20	6	6 7	338.00	5.42	12.81	69.18	999.00	318.50	4.13	15.79	69.47	283.00	1.83	64.33	69.80	999.00	-1.17	999.00	-0.79	0.00
20	6	6 8	20.22	1.50	55.28	69.90	999.00	10.69	1.64	47.72	70.35	278.70	1.92	20.02	71.00	999.00	-1.26	999.00	-0.32	0.00
20	6	6 9	0.98	9.04	8.91	70.31	999.00	356.70	9.12	7.58	71.38	3.12	9.16	11.01	72.16	999.00	-1.69	999.00	-1.28	0.00
20	6	6 10	34.58	4.78	15.14	69.36	999.00	27.18	4.42	13.43	69.76	20.20	4.76	15.94	71.14	999.00	-1.20	999.00	-0.66	0.00
20	6	6 11	92.80	5.19	20.87	69.36	999.00	78.90	5.36	16.95	69.76	75.20	5.22	20.35	71.14	999.00	-2.14	999.00	-1.23	0.00
20	6	6 12	98.30	6.88	9.07	69.88	999.00	85.90	7.05	8.85	70.81	85.00	6.55	16.20	72.21	999.00	-2.47	999.00	-1.62	0.00
20	6	6 13	88.10	8.60	9.47	70.13	999.00	78.50	8.64	10.78	70.98	76.70	7.15	21.61	72.69	999.00	-2.65	999.00	-1.63	0.00
20	6	6 14	107.50	7.47	7.46	999.00	999.00	97.60	8.23	8.13	999.00	92.70	6.69	18.27	73.08	999.00	-2.79	999.00	-2.06	0.00
20	6	6 15	89.30	5.64	11.32	72.07	999.00	87.10	6.47	9.89	72.82	93.20	5.48	18.99	74.67	999.00	-2.58	999.00	-1.98	0.00
20	6	6 16	352.20	8.89	15.29	75.10	999.00	358.00	7.26	21.62	75.57	22.21	6.16	19.42	76.68	999.00	-1.23	999.00	-0.54	0.00
20	6	6 17	356.50	11.16	6.60	76.98	999.00	353.50	9.74	8.05	77.63	358.80	7.98	10.72	78.78	999.00	-1.49	999.00	-1.02	0.00
20	6	6 18	348.50	10.93	8.67	77.08	999.00	345.40	10.02	9.47	77.80	351.40	9.09	12.65	78.79	999.00	-1.82	999.00	-0.93	0.00
20	6	6 19	21.21	8.26	24.49			19.50	6.57	25.65	76.37	18.96	4.47	38.83		999.00		999.00	-0.56	0.00
		6 20	10.38	13.53	15.30		999.00	3.55	11.23	17.86	74.81		7.94	19.41		999.00		999.00	-0.52	0.00
20	6	6 21	50.38	19.13	7.63		999.00	45.01	16.29	8.59	74.81	45.00	15.68	8.21		999.00		999.00	-1.14	0.00
20		6 22	47.48	20.80	6.65		999.00	42.70	18.77	7.85	69.80	45.58	17.36	9.34		999.00		999.00	-1.24	0.00
20	6	6 23	53.22	21.66	8.12		999.00	47.82	19.83	8.58	67.42	44.32	17.45	10.81		999.00		999.00	-1.23	0.00
20		6 24	61.22	19.39	7.10		999.00	54.83	17.95	7.52	65.93	55.73	13.73	10.98		999.00		999.00	-1.00	0.00
20		7 1	56.92	17.01	7.06		999.00	49.43	15.55	8.12	64.59	49.10	13.62	10.96		999.00		999.00	-1.25	0.00
20		7 2	62.17	16.50	7.22		999.00	55.68	15.22	7.29	62.09	58.81	10.51	12.48		999.00		999.00	-1.02	0.00
		7 3	59.63	12.61	9.41	60.91	999.00	52.86	11.57	9.64	61.48	55.90	9.40	11.62	62.55	999.00	-1.63	999.00	-1.05	0.00
20	6	7 4	45.30	9.74	9.74	60.91	999.00	40.07	8.18	10.14	61.48	39.61	8.95	14.86	62.55	999.00	-1.77	999.00	-1.21	0.00

20 6 7 5	4.4.00	11 01	6 00	CO 20	000 00	20.26	0 10	7 40	CO 0C	41 07	0 (2	10 01	60.00	000 00	1 01	000 00	1 00	0 00
20 6 7 5	44.02	11.31	6.98		999.00 999.00	38.36	9.19	7.40	60.86	41.27	9.63	10.01		999.00		999.00	-1.28	0.00
20 6 7 6	46.52	8.17	9.94	59.80		41.22	7.30	9.84	60.35	42.17	7.92	14.58	61.57	999.00	-1.70	999.00	-1.14	0.00
20 6 7 7	37.20	9.28	8.63	59.83	999.00	32.51	7.53	6.74	60.44	34.95	8.25	10.77	61.57				-1.16	0.00
20 6 7 8 20 6 7 9	35.24	7.76	9.22	60.03	999.00	28.99	6.66	8.23	60.66	30.18	7.26	9.57	61.66	999.00	-1.50	999.00	-0.88	0.00
	39.72	7.26	11.41	60.45	999.00	31.15	6.50	10.48	61.27	32.81	7.33	10.00	62.06	999.00	-1.27	999.00	-0.71	0.00
	43.08 58.25	6.99	14.55	60.76	999.00	35.59 50.34	6.42	13.67 10.82	61.33 61.54	26.80 45.93	7.39	14.16 14.76	61.99	999.00	-1.27 -1.85	999.00	-0.67	0.00
	67.03	9.98 10.64	12.11 11.67	60.88	999.00 999.00	60.82	9.29 10.94	10.62	62.08	61.82	8.92	17.16	62.33	999.00 999.00	-1.98	999.00 999.00	-1.16 -1.38	0.00
20 6 7 12 20 6 7 13	59.40	7.74	16.22	61.46 62.65	999.00	52.55	7.37	15.50	63.45	48.21	9.71 7.15	22.22	64.72	999.00	-1.72	999.00	-1.38	0.00
	64.63	4.97	12.31	64.09	999.00	58.54			64.70	62.28		17.91	65.79	999.00	-1.46	999.00	-1.08	0.00
20 6 7 14 20 6 7 15	93.10	6.45	14.05	65.61	999.00	92.60	5.49 6.45	11.30 16.29	66.36	93.20	5.40 5.18	35.11	67.46	999.00	-3.02	999.00	-2.00	0.00
20 6 7 16		6.12	11.47	65.61	999.00	102.40	5.74	11.31		107.20	4.27	23.51	68.16	999.00	-2.41	999.00	-1.66	0.00
20 6 7 17		6.01	14.39	66.45	999.00		5.70	13.18		140.10	4.41	21.66	68.81	999.00	-2.37	999.00	-1.54	0.00
20 6 7 18		3.87	19.72	67.15		125.00	3.97	18.31		115.30	3.26	20.91	69.28	999.00	-1.78	999.00	-1.05	0.00
	126.30	6.24	8.87	67.82		119.60	5.98	10.24		131.80	4.37	18.87	69.98	999.00	-2.28	999.00	-1.58	0.00
20 6 7 20		7.63	5.81	68.20	999.00		7.39	6.11		123.50	4.71	15.00	70.02	999.00	-1.49	999.00	-0.78	0.00
20 6 7 21		6.24	7.09	68.17		116.70	5.98	6.53		118.70	3.22	13.92	69.51	999.00	-1.00	999.00	-0.48	0.00
20 6 7 22		8.23	3.69	68.12	999.00	96.20	7.85	3.69		108.30	3.84	10.64	69.02	999.00	-0.78	999.00	-0.31	0.00
20 6 7 23		7.20	7.76	67.78	999.00	108.90	6.88	8.35		109.40	3.34	11.19	68.58	999.00	-0.87	999.00	-0.42	0.00
20 6 7 24		9.83	6.02	67.18	999.00	103.80	9.42	6.69		106.90	4.48	12.92	68.02	999.00	-0.77	999.00	-0.29	0.00
20 6 8 1	99.70	11.85	3.23	66.55	999.00	91.90	11.62	4.29	67.05	95.80	5.26	16.45	67.36	999.00	-0.79	999.00	-0.29	0.00
	101.50	13.39	9.46	65.82	999.00	94.20	12.62	11.39	66.30	98.00	6.21	18.84	66.64	999.00	-0.96	999.00	-0.46	0.00
20 6 8 3	98.70	14.69	3.82	62.92	999.00	90.80	14.11	5.05	63.42	97.80	7.23	16.69	64.16	999.00	-1.03	999.00	-0.54	0.00
20 6 8 4	94.00	12.89	4.65	62.96	999.00	86.00	12.13	5.94	63.44	85.60	5.78	16.76	63.96	999.00	-0.96	999.00	-0.49	0.00
20 6 8 5	91.00	11.86	4.26	62.73	999.00	83.30	11.16	5.42	63.22	80.50	7.06	11.93	63.75	999.00	-1.21	999.00	-0.71	0.00
	100.20	9.28	4.24	62.01	999.00	93.00	8.59	5.47	62.47	101.20	3.64	15.52	63.04	999.00	-0.76	999.00	-0.33	0.00
20 6 8 7	91.40	9.18	4.90	62.55	999.00	81.30	9.00	4.54	63.08	78.90	5.45	12.08	63.54	999.00	-1.48	999.00	-0.84	0.00
20 6 8 8	95.80	7.39	8.70	61.99	999.00	88.40	6.93	9.65	62.79	85.90	4.92	19.44	63.87	999.00	-2.24	999.00	-1.35	0.00
20 6 8 9	101.00	8.04	8.94	61.99	999.00	91.50	8.08	9.34	62.79	94.00	5.88	20.02	63.87	999.00	-2.60	999.00	-1.71	0.00
20 6 8 10	101.40	8.90	8.07	61.42	999.00	89.70	8.88	9.38	62.26	90.20	6.89	21.39	64.16	999.00	-2.92	999.00	-2.06	0.00
20 6 8 11	94.80	8.21	9.43	61.95	999.00	86.50	8.31	9.81	62.88	81.40	7.17	17.41	64.86	999.00	-2.78	999.00	-1.93	0.00
20 6 8 12	85.40	7.80	10.55	63.01	999.00	79.80	7.81	12.32	64.03	70.30	6.93	16.75	65.55	999.00	-2.52	999.00	-1.52	0.00
20 6 8 13	74.20	7.32	11.99	64.51	999.00	66.26	7.65	11.00	65.49	60.92	7.07	17.15	66.96	999.00	-2.13	999.00	-1.33	0.00
20 6 8 14	72.00	8.59	10.02	65.23	999.00	69.49	8.69	9.60	65.91	76.20	7.68	16.49	67.43	999.00	-2.30	999.00	-1.74	0.00
20 6 8 15	62.93	7.74	10.67	65.57	999.00	58.96	8.36	8.45	66.09	63.53	7.34	14.96	67.79	999.00	-2.24	999.00	-1.83	0.00
20 6 8 16	56.64	8.77	14.26	65.73	999.00	52.66	9.02	12.04	66.35	44.15	8.54	14.16	67.90	999.00	-2.33	999.00	-1.60	0.00
20 6 8 17	74.40	7.67	11.35	66.22	999.00	66.23	7.86	11.43	66.74	67.13	7.12	18.08	68.09	999.00	-2.08	999.00	-1.36	0.00
20 6 8 18	73.30	7.84	8.32	66.89	999.00	68.31	8.11	7.20	67.70	78.40	6.66	13.64	68.86	999.00	-1.37	999.00	-0.60	0.00
20 6 8 19	91.20	9.60	7.62	66.89	999.00	85.20	9.03	10.33	67.70	83.10	7.18	18.03	68.86	999.00	-2.62	999.00	-1.76	0.00
20 6 8 20	99.90	9.32	5.69	66.61	999.00	94.10	9.10	7.80	67.19	98.20	6.42	15.12	68.53	999.00	-1.38	999.00	-0.84	0.00
	101.30	13.56	3.21	66.48	999.00	95.20	13.33	3.95	67.09	103.10	7.20	14.48	67.91	999.00	-1.34	999.00	-0.79	0.00
	117.50	12.12	3.57	66.48	999.00	111.10	10.61	4.91		116.50	5.45	13.59	67.91	999.00	-0.54	999.00	-0.44	0.00
20 6 8 23		11.64	3.94	66.40	999.00		11.22	4.15		114.00	5.89	12.42		999.00		999.00	-0.50	0.00
20 6 8 24		12.25			999.00		9.92		66.80					999.00		999.00	-0.07	0.00
20 6 9 1		13.23	5.83		999.00		10.81	6.81		115.80		15.72		999.00		999.00	-0.08	0.00
20 6 9 2		12.97	1.75		999.00		9.83	3.17		150.00	3.31	12.68		999.00		999.00	0.77	0.00
20 6 9 3		15.18	0.94		999.00		10.60	2.01		157.80	2.35	20.61		999.00		999.00	1.36	0.00
20 6 9 4		17.18	1.93		999.00		12.93	2.19		160.70	1.59	24.71		999.00		999.00	3.40	0.00
20 6 9 5		17.88	0.96		999.00		12.29	1.20		203.60	1.95	8.08		999.00		999.00	5.10	0.00
20 6 9 6		13.50	1.14		999.00		9.36	1.48		142.20	1.22	16.73		999.00		999.00	5.05	0.00
20 6 9 7		13.43	2.42		999.00		10.32	2.77		132.30	2.54	14.26		999.00		999.00	3.77	0.00
20 6 9 8	1/4.60	14.63	2.17	11.12	999.00	128./0	10.93	4.95	/U.8I	158.80	4.00	14.61	bb./4	999.00	1.5/	999.00	0.17	0.00

20 6 0 0 167 50	0.01	0 00	71 ((000 00 150	7 41	0 00	71 02	155 00	4 00	10 75	70 24	000 00	0.06	000 00	1 06	0 00
20 6 9 9 167.50 20 6 9 10 180.60	8.21 7.34	8.29 7.91		999.00 159. 999.00 166.		9.08		155.20 153.40	4.22 4.10	18.75 20.89	75.41	999.00		999.00	-1.06	0.00
20 6 9 10 180.60 20 6 9 11 164.00	7.34	12.77	73.49 75.25	999.00 150.		6.95 11.60		146.60	5.37	18.67	77.13	999.00 999.00	-1.57 -2.11	999.00 999.00	-0.64 -1.04	0.00
20 6 9 12 117.70	10.40	5.68		999.00 105.		7.77	77.94	87.20	8.28	10.61	79.16	999.00	-1.34	999.00	-1.12	0.00
20 6 9 13 104.50	13.40	2.30	78.44	999.00 90.		3.51	78.17	86.70	10.13	10.69	78.89	999.00	1.98	999.00	0.69	0.00
20 6 9 13 104.50	16.99	1.94	79.15	999.00 92.		2.10	77.96	91.70	10.13	13.80	78.61	999.00	0.90	999.00	-0.73	0.00
20 6 9 15 103.40	21.42	2.18	79.13	999.00 92.		2.57	78.43	93.50	11.76	13.34	79.50	999.00	0.79	999.00	-0.80	0.00
20 6 9 16 102.00	23.17	2.56	79.78	999.00 92.		3.96	78.69	96.30	11.26	14.86	79.79	999.00	-0.86	999.00	-1.64	0.00
20 6 9 17 108.00	21.52	3.97	77.15	999.00 95.		5.12	76.16	94.70	10.55	15.05	77.44	999.00	-0.64	999.00	-1.69	0.00
20 6 9 18 109.40	28.13	3.51	75.58	999.00 100.		5.93		110.00	10.56	16.92	76.25	999.00	-0.25	999.00	-0.58	0.00
20 6 9 19 129.10	21.14	3.96	77.72	999.00 109.		4.56		110.00	8.53	14.30	76.26	999.00	4.61	999.00	0.35	0.00
20 6 9 20 169.50	16.57	6.42	82.54	999.00 148.		9.03		102.60	4.97	14.28	75.64	999.00	7.97	999.00	7.44	0.00
20 6 9 21 194.60	22.46	5.46	86.98	999.00 188.		6.67		193.70	9.73	16.15	84.30	999.00	-0.65	999.00	-0.26	0.00
20 6 9 22 208.20	23.03	5.37	84.30	999.00 202.		6.31		204.20	9.97	14.40	85.41	999.00	-1.08	999.00	-0.64	0.00
20 6 9 23 195.30	21.77	5.32	82.43	999.00 188.		5.62		193.50	9.23	16.28	83.34	999.00	-0.94	999.00	-0.51	0.02
20 6 9 24 197.60	22.24	4.03	78.46	999.00 190.		4.97		194.20	8.97	14.84	79.02	999.00	1.09	999.00	2.43	0.00
20 6 10 1 194.80	22.10	4.39	76.52	999.00 186.		5.49	77.56	188.20	8.01	16.83	75.67	999.00	1.06	999.00	1.22	0.00
20 6 10 2 192.00	22.84	5.07	78.13	999.00 184.	0 19.39	5.76	78.30	188.80	9.11	14.96	77.08	999.00	0.76	999.00	0.96	0.00
20 6 10 3 202.50	25.26	6.10	78.25	999.00 196.	30 22.42	6.96	78.51	200.60	11.17	15.15	77.63	999.00	0.33	999.00	0.67	0.00
20 6 10 4 202.60	26.39	5.34	78.25	999.00 196.	.0 23.03	6.16	78.51	200.20	11.60	14.96	77.63	999.00	0.62	999.00	0.99	0.00
20 6 10 5 203.60	25.82	4.91	77.23	999.00 197.		5.71	77.58	199.60	11.04	14.01	76.82	999.00	-0.94	999.00	-0.57	0.00
20 6 10 6 201.50	23.74	5.51	76.69	999.00 194.	30 20.71	6.62	77.09	195.70	10.80	14.68	77.70	999.00	-0.98	999.00	-0.61	0.00
20 6 10 7 201.30	23.30	5.45	76.32	999.00 195.		6.35		197.10	11.22	14.73	77.36	999.00	-1.25	999.00	-0.74	0.00
20 6 10 8 201.40	24.84	6.13	76.34	999.00 195.		7.53		196.80	11.66	14.44	77.76	999.00	-1.60	999.00	-0.91	0.00
20 6 10 9 204.40	25.65	5.95	77.52	999.00 197.		7.34		199.60	13.38	15.42	79.31	999.00	-1.94	999.00	-1.20	0.00
20 6 10 10 205.30	22.60	8.09	78.75	999.00 199.		8.94		203.90	11.19	16.32	80.66	999.00	-1.93	999.00	-1.23	0.00
20 6 10 11 200.80	27.23	4.27	78.75	999.00 194.		5.59		196.60	14.18	14.94	80.66	999.00	-2.42	999.00	-1.39	0.00
20 6 10 12 204.10	29.20	6.46	81.22	999.00 198.		7.34		198.70	15.50	15.22	83.59	999.00	-2.45	999.00	-1.61	0.00
20 6 10 13 198.90	28.99	7.41	83.00	999.00 192.		8.06		195.30	15.31	16.67	85.35	999.00	-2.27	999.00	-1.38	0.00
20 6 10 14 200.60	28.08	7.65	83.91	999.00 194.		8.92		194.20	14.50	15.98	86.28	999.00	-2.28	999.00	-1.45	0.00
20 6 10 15 195.40	30.04	9.14	85.50	999.00 188.		9.37		191.20	15.07	15.94	87.76	999.00	-2.33	999.00	-1.56	0.00
20 6 10 16 187.50	31.91	8.42	87.03	999.00 181.		9.42		186.10	15.78	18.10	89.31	999.00	-2.32	999.00	-1.52	0.00
20 6 10 17 189.70 20 6 10 18 194.40	33.83 27.36	5.00 5.66	87.62 86.84	999.00 182. 999.00 188.		6.16 6.68		186.30 191.60	16.30 12.46	16.20 14.32	89.69 88.61	999.00 999.00	-1.77 -1.15	999.00 999.00	-1.07 -0.68	0.00 0.29
20 6 10 16 194.40	20.78	7.99	74.85	999.00 171.		8.79		168.70	7.34	21.61	74.92	999.00	-0.42	999.00	-0.99	0.29
20 6 10 19 182.00	17.24	13.90	68.91	999.00 169.		20.38		182.70	7.10	40.27	69.17		-0.28	999.00	-0.39	0.01
20 6 10 20 173.20	19.68	8.76	70.74	999.00 229.		8.79		219.80	8.68	14.74	70.72	999.00	0.35	999.00	1.52	0.00
20 6 10 22 256.80	25.80	6.76	73.40	999.00 251.		8.25		246.50	16.01	10.91	72.78	999.00	0.69	999.00	1.17	0.00
20 6 10 23 245.50	22.26	4.68	71.45	999.00 238.		5.27		227.90	12.28	10.40	72.27	999.00	-0.78	999.00	-0.37	0.00
20 6 10 24 253.90	29.60	5.88	70.04	999.00 246.		5.50		241.80	19.15	9.22	71.07	999.00	-1.13	999.00	-0.61	0.00
20 6 11 1 245.00	28.07	5.12	68.57	999.00 239.		6.31		232.60	17.54	9.24	69.85	999.00	-1.33	999.00	-0.80	0.00
20 6 11 2 245.10	29.76	5.62	68.17	999.00 238.		6.07	68.69	233.50	19.60	9.86	69.50	999.00	-1.38	999.00	-0.85	0.00
20 6 11 3 260.50	28.76	7.58	68.17			8.52		249.40	17.92	11.71		999.00		999.00	-1.03	0.00
20 6 11 4 287.60				999.00 282.		6.16						999.00	-1.34	999.00	-0.79	0.00
20 6 11 5 291.90	20.01	5.98		999.00 285.		6.48	62.92	275.50	11.30	10.64		999.00	-0.89	999.00	-0.46	0.00
20 6 11 6 263.40	19.72	6.37	61.20	999.00 258.	18.16	7.06		253.20	12.16	10.93	62.38	999.00	-1.38	999.00	-0.84	0.00
20 6 11 7 252.70	18.10	5.71	60.97	999.00 245.	16.99	6.26	61.56	241.40	11.67	10.85	62.57	999.00	-1.63	999.00	-1.03	0.00
20 6 11 8 253.20	19.91	6.48	60.65	999.00 246.	19.08	7.13	61.23	239.90	13.35	10.18	62.53	999.00	-2.08	999.00	-1.49	0.00
20 6 11 9 262.80	18.71	7.98		999.00 256.		8.61		247.20	13.55	10.86		999.00		999.00	-1.53	0.00
20 6 11 10 265.30	17.66	9.39		999.00 258.		10.33		247.80	11.67	13.32		999.00		999.00	-1.86	0.00
20 6 11 11 263.90	21.79			999.00 257.			66.06		15.74	12.01		999.00		999.00	-1.91	0.00
20 6 11 12 278.30	21.66	10.71	67.52	999.00 271.	20.35	11.43	68.18	261.70	15.31	15.54	70.17	999.00	-2.77	999.00	-2.12	0.00

20			20.91	10.89	68.89	999.00		20.50	11.54		261.30	14.92	16.82		999.00		999.00	-2.24	0.00
20	6 11 14		19.40	14.41	70.10	999.00	266.30	18.41	15.81		260.10	13.68	19.06	72.93	999.00	-2.91	999.00	-2.28	0.00
20	6 11 15		20.70	8.99	71.33	999.00	259.40	19.65	9.74		247.60	15.14	12.94	74.00	999.00	-2.62	999.00	-1.99	0.00
20	6 11 16		17.96	15.47	72.41	999.00	285.10	16.96	15.40	73.08	276.00	12.78	19.52	75.20	999.00	-3.11	999.00	-2.38	0.00
20	6 11 17	291.30	15.16	11.81	73.07	999.00	286.50	14.69	12.54	73.71	278.90	10.70	17.10	75.57	999.00	-2.46	999.00	-1.84	0.00
20	6 11 18	294.90	18.01	7.81	73.64	999.00	290.50	17.11	7.24	74.36	286.00	13.29	11.00	76.07	999.00	-2.44	999.00	-1.67	0.00
20	6 11 19	296.70	16.96	15.16	74.01	999.00	291.60	16.40	15.28	74.78	285.00	11.42	19.75	76.32	999.00	-2.13	999.00	-1.49	0.00
20	6 11 20	281.60	16.46	6.45	74.01	999.00	277.10	15.65	7.54	74.78	267.30	10.14	11.84	76.32	999.00	-1.16	999.00	-0.56	0.00
20	6 11 21	262.30	13.53	3.90	73.79	999.00	255.60	12.28	4.27	74.30	252.80	6.87	8.65	74.47	999.00	-0.25	999.00	0.14	0.00
20	6 11 22	244.20	13.81	4.93	73.09	999.00	233.90	11.44	6.25	73.06	211.10	3.13	10.30	72.13	999.00	1.95	999.00	1.67	0.00
20	6 11 23	235.30	18.36	2.32	73.22	999.00	220.10	15.33	2.38		196.80	4.32	9.72	69.57	999.00	4.17	999.00	3.17	0.00
20	6 11 24		23.28	2.26	73.20	999.00	213.50	18.44	2.83		197.40	5.97	10.64	68.60	999.00	4.02	999.00	2.30	0.00
20		359.20	12.65	4.83	68.80	999.00	354.30	11.91	5.40		354.30	8.82	10.40	68.73	999.00	-1.50	999.00	-1.00	0.00
20	6 12 2		2.22	37.95	66.90	999.00	249.40	2.23	44.88		199.10	2.89	20.49	67.85	999.00	-0.54	999.00	-0.17	0.00
20	6 12 3		10.52	9.45	66.90	999.00	278.70	8.24	12.77		213.50	3.15	15.51	67.85	999.00	1.51	999.00	1.36	0.00
20	6 12 4		12.48	4.48	68.01	999.00	253.00	10.45	4.87		221.80	4.00	9.45	66.46	999.00	1.79	999.00	1.54	0.00
20	6 12 5	296.60	14.31		67.05	999.00	283.70				255.60		6.07	65.89					0.00
				2.62				12.68	3.44			5.78			999.00	0.54	999.00	0.77	
20	6 12 6	310.00	14.00	3.36	65.47	999.00	297.00	12.44	2.47		263.90	5.24	5.89	64.34	999.00	1.28	999.00	1.48	0.00
20	6 12 7		15.20	6.02	64.19	999.00	328.20	14.77	7.38		322.60	8.56	15.28	64.01	999.00	-1.47	999.00	-0.86	0.00
20	6 12 8	343.40	12.71	6.46	63.09	999.00	337.80	12.37	6.78		334.30	9.54	11.34	65.29	999.00	-2.56	999.00	-1.81	0.00
20	6 12 9	340.90	11.59	5.62	62.43	999.00	334.30	11.74	6.04	63.18	334.00	9.17	13.62	65.13	999.00	-2.82	999.00	-2.11	0.00
20	6 12 10		13.02	5.91	62.67	999.00	344.70	13.03	6.15	63.38	349.90	11.22	9.85	65.23	999.00	-2.34	999.00	-1.62	0.00
20	6 12 11	359.30	10.08	10.73	62.65	999.00	355.70	10.00	11.12	63.29	2.56	9.17	16.19	64.66	999.00	-1.75	999.00	-1.21	0.00
20	6 12 12	15.46	6.82	16.09	63.20	999.00	12.22	6.48	14.08	63.58	21.80	6.07	18.04	64.76	999.00	-1.51	999.00	-1.17	0.00
20	6 12 13	56.61	6.13	16.87	63.20	999.00	59.68	6.73	13.76	63.58	74.40	6.67	19.02	64.76	999.00	-1.33	999.00	-0.90	0.00
20	6 12 14	79.00	7.29	14.42	65.06	999.00	76.80	7.28	16.31	65.65	79.30	6.20	24.04	66.99	999.00	-2.32	999.00	-1.67	0.00
20	6 12 15	94.10	7.42	10.83	65.79	999.00	89.20	7.45	12.11	66.54	101.40	5.80	26.97	68.19	999.00	-2.62	999.00	-1.75	0.00
20	6 12 16	74.20	6.87	15.13	66.87	999.00	69.58	7.11	15.45	67.69	80.60	6.34	21.43	69.27	999.00	-2.04	999.00	-1.13	0.00
20	6 12 17	50.49	6.30	15.14	68.53	999.00	50.75	6.88	13.46	69.15	45.03	6.65	19.43	70.08	999.00	-1.64	999.00	-1.08	0.00
20	6 12 18	45.51	6.81	14.36	68.96	999.00	40.18	6.34	13.16	69.70	32.67	7.59	16.78	70.38	999.00	-1.29	999.00	-0.39	0.00
20	6 12 19	49.80	6.34	15.83	69.06	999.00	46.51	6.47	14.60	69.88	39.18	6.41	20.52	70.65	999.00	-1.66	999.00	-1.01	0.00
20	6 12 20	40.51	10.08	17.14	68.94	999.00	34.09	8.95	18.42	69.49	24.70	8.15	21.33	70.57	999.00	-1.73	999.00	-1.15	0.00
20	6 12 21	92.90	9.02	9.17	67.32	999.00	85.20	8.37	10.84	67.87	91.00	4.95	18.65	68.99	999.00	-1.54	999.00	-1.01	0.00
20	6 12 22	95.90	15.51	5.12	66.14	999.00	88.50	14.96	5.63	66.66	92.80	8.11	14.80	67.57	999.00	-1.30	999.00	-0.79	0.00
20	6 12 23	79.80	23.71	6.04	63.64	999.00	73.00	22.38	6.59	64.22	75.50	14.76	12.28	65.32	999.00	-1.75	999.00	-1.17	0.06
20	6 12 24	90.60	20.55	19.69	59.68	999.00	84.30	19.53	20.27	60.02	91.60	11.33	28.90	60.07	999.00	1.75	999.00	1.78	0.08
20	6 13 1	80.80	22.77	3.72	57.71	999.00	73.90	22.34	4.47	58.13	73.80	14.64	9.97	55.99	999.00	1.96	999.00	2.52	0.00
20	6 13 2	82.60	23.40	4.90	58.39	999.00	76.20	22.80	4.84	58.53	75.80	14.83	11.29	56.48	999.00	3.82	999.00	3.73	0.04
20	6 13 3	88.00	19.75	4.77	57.29	999.00	80.70	19.18	4.95	57.20	82.00	11.23	12.57	54.45	999.00	2.88	999.00	2.65	0.01
20	6 13 4	90.40	19.17	6.99	56.99	999.00	83.10	18.57	7.44	56.99	79.70	11.33	15.06	53.86	999.00	2.60	999.00	2.67	0.00
20	6 13 5	82.40	22.89	5.22	57.91	999.00	75.30	22.54	5.43	58.38	75.50	13.64	13.80	56.32	999.00	1.04	999.00	1.54	0.00
20	6 13 6	80.90	21.09	5.53	57.17	999.00	73.10	20.53	6.26	57.66	74.70	13.22	11.99	58.45	999.00	-1.63	999.00	-1.14	0.00
20	6 13 7	74.40	18.77	5.96		999.00	67.57	18.12	6.28	57.44	69.76	11.92	11.78		999.00		999.00	-1.14	0.00
																	999.00		
	6 13 8	54.88	17.98	7.82		999.00		16.71	8.29	56.25	45.44	14.51			999.00			-1.80	0.00
	6 13 9	61.65	15.49	8.93		999.00	54.05	14.73	8.18	55.59	52.39	11.89	13.01		999.00		999.00	-1.86	0.00
	6 13 10	60.30	14.16	9.07		999.00	52.80	13.83	8.67	55.63	51.26	11.65	11.17		999.00		999.00	-1.81	0.00
	6 13 11	67.56	15.39	8.67		999.00	59.57	14.93	8.73	55.63	55.42	12.32	11.15		999.00		999.00	-1.80	0.00
	6 13 12	69.70	17.91	8.01		999.00	61.58	17.11	7.95	56.13	60.66	13.66	12.02		999.00		999.00	-1.87	0.00
	6 13 13	68.23	21.75	6.99		999.00	60.97	20.98	7.43	56.91	60.69	15.74	11.97		999.00		999.00	-2.11	0.00
	6 13 14	78.50	20.01	7.77		999.00	72.60	19.34	8.68	57.53	70.30	14.79	13.62		999.00		999.00	-2.33	0.00
	6 13 15	86.10	17.80	6.74		999.00	80.80	17.31	8.55	57.79	77.80	13.05	14.22		999.00		999.00	-2.31	0.00
20	6 13 16	96.90	16.22	9.19	57.19	999.00	90.70	15.41	11.81	58.06	90.40	10.15	17.63	60.41	999.00	-3.18	999.00	-2.27	0.00

20	6 13 17	101.00	18.08	7.01	57.37	999.00	94.60	17.34	7.93	58.15	98.50	9.84	19.00	60.42	999.00	-3.17	999.00	-2.38	0.00
20	6 13 18	100.60	17.60	6.25	58.05	999.00	94.90	16.90	7.78	58.94	99.40	9.53	17.79	60.99	999.00	-2.82	999.00	-1.85	0.00
20	6 13 19	102.20	16.50	6.46	58.67	999.00	94.60	15.27	7.95	59.56	99.10	8.49	18.41	61.18	999.00	-2.57	999.00	-1.75	0.00
20	6 13 20	92.70	16.15	6.21	59.21	999.00	85.60	15.36	6.82	59.92	85.20	9.42	13.89	61.31	999.00	-2.02	999.00	-1.22	0.00
20	6 13 21	85.80	15.69	5.41	59.56	999.00	79.10	15.01	5.88	60.22	77.30	10.29	11.01	61.16	999.00	-1.38	999.00	-0.86	0.00
20		71.70	17.34	7.78	59.78	999.00	64.95	16.40	8.19	60.26	70.30	11.13	12.80	61.01	999.00	-1.27	999.00	-0.79	0.00
	6 13 23	70.40	19.03	7.25	59.40	999.00	64.18	18.00	8.00	59.89	67.52	11.63	14.71	60.73	999.00	-1.41	999.00	-0.91	0.00
20	6 13 24	67.58	20.60	6.55	57.94	999.00	60.82	19.82	7.26	58.49	59.21	13.82	12.36	59.50	999.00	-1.54	999.00	-0.99	0.00
20	6 14 1	66.43	18.99	7.18	57.15	999.00	59.01	17.81	7.37	57.69	60.57	12.69	11.50	58.68	999.00	-1.47	999.00	-0.94	0.00
20	6 14 2	60.30	16.45	8.17	57.14	999.00	54.18	15.68	7.70	57.68	53.99	11.63	11.81	58.67	999.00	-1.56	999.00	-1.01	0.00
20	6 14 3	60.09	17.05	6.81	56.85	999.00	53.68	16.28	6.91	57.41	55.07	11.83	10.04	58.45	999.00	-1.58	999.00	-1.03	0.00
20	6 14 4	66.17	16.54	7.33	56.48	999.00	58.28	15.33	8.18	57.02	56.98	10.71	11.93	57.99	999.00	-1.42	999.00	-0.90	0.00
20	6 14 5	70.70	18.21	6.50	57.00	999.00	62.87	17.34	6.50	57.49	65.27	11.11	11.03	58.29	999.00	-1.29	999.00	-0.79	0.00
20	6 14 6	73.60	19.61	6.48	57.53	999.00	67.15	18.49	6.72	58.02	70.20	12.16	11.57	58.81	999.00	-1.30	999.00	-0.80	0.00
20	6 14 7	72.50	22.59	8.42	57.64	999.00	65.93	21.23	8.72	58.22	64.36	14.84	11.67	59.09	999.00	-1.60	999.00	-0.96	0.00
20	6 14 8	80.40	25.09	6.60	58.36	999.00	74.30	23.32	7.22	59.01	73.90	14.65	12.38	60.00	999.00	-1.75	999.00	-1.08	0.00
	6 14 9	86.20	28.60	4.36	58.16	999.00	79.90	27.47	5.39	58.97	78.00	17.37	11.99	60.41	999.00	-2.49	999.00	-1.67	0.00
	6 14 10	85.20	26.88	5.45	57.86	999.00	79.30	25.75	6.16	58.66	79.20	16.45	13.29	60.50	999.00	-2.72	999.00	-1.91	0.00
	6 14 11	81.10	25.32	5.31	57.87	999.00	75.40	24.17	6.94	58.72	77.30	16.62	14.03	60.66	999.00	-2.92	999.00	-2.04	0.00
	6 14 12	72.50	22.36	8.10	58.44	999.00	65.77	20.89	9.63	59.31	65.77	15.49	14.76	61.48	999.00	-3.03	999.00	-2.15	0.00
	6 14 13	74.20	22.39	6.01	58.44	999.00	67.50	21.47	6.93	59.31	69.39	15.34	14.07	61.48	999.00	-3.20	999.00	-2.23	0.00
	6 14 14	72.70	21.88	9.58	58.38				10.17	59.26	63.49	15.96	14.07	61.54		-3.20	999.00	-2.23	0.00
						999.00	64.75	20.96											
	6 14 15	72.30	22.46	7.69	58.08	999.00	65.22	21.55	8.61	58.98	63.14	16.30	13.89	61.58	999.00	-3.36	999.00	-2.47	0.00
	6 14 16	83.30	22.06	7.01	58.69	999.00	76.10	20.91	8.42	59.59	76.30	14.36	15.11	61.97	999.00	-3.46	999.00	-2.51	0.00
	6 14 17	87.80	24.15	4.64	59.54	999.00	81.60	23.27	5.95	60.40	82.20	14.35	14.13	62.67	999.00	-3.15	999.00	-2.32	0.00
	6 14 18	85.10	23.55	5.60	60.40	999.00	78.40	22.98	6.48	61.28	81.20	15.78	13.00	63.19	999.00	-2.69	999.00	-1.74	0.00
	6 14 19	85.60	24.55	4.71	60.73	999.00	79.00	23.69	5.61	61.65	80.60	15.13	13.38	63.33	999.00	-2.47	999.00	-1.70	0.00
	6 14 20	85.30	24.28	4.19	61.13	999.00	79.20	23.83	4.74	61.88	81.90	14.83	11.65	63.19	999.00	-1.90	999.00	-1.11	0.00
	6 14 21	94.60	23.70	4.54	60.94	999.00	87.60	22.74	5.29	61.59	89.40	12.72	15.19	62.49	999.00	-1.32	999.00	-0.80	0.00
20	6 14 22	88.70	20.75	5.44	60.94	999.00	82.90	20.06	6.16	61.59	83.70	11.62	14.65	62.49	999.00	-1.19	999.00	-0.74	0.00
20	6 14 23	83.20	20.48	4.66	61.04	999.00	76.90	19.38	5.54	61.51	77.00	13.57	10.62	62.22	999.00	-1.23	999.00	-0.76	0.00
20	6 14 24	75.80	21.35	3.88	60.99	999.00	69.42	20.13	5.45	61.47	71.90	12.17	11.44	62.23	999.00	-1.25	999.00	-0.77	0.00
20	6 15 1	61.06	19.56	10.74	60.84	999.00	54.58	18.05	11.17	61.34	57.40	13.18	14.86	62.17	999.00	-1.47	999.00	-0.95	0.00
20	6 15 2	64.81	19.20	5.53	59.88	999.00	57.18	18.11	6.22	60.43	57.73	11.49	10.79	61.47	999.00	-1.42	999.00	-0.89	0.00
20	6 15 3	63.72	19.81	6.33	59.99	999.00	57.55	19.03	6.30	60.51	59.25	12.50	11.32	61.38	999.00	-1.40	999.00	-0.87	0.00
20	6 15 4	67.87	19.04	5.76	59.44	999.00	61.29	18.38	6.24	59.94	63.16	12.40	12.20	60.75	999.00	-1.34	999.00	-0.82	0.00
20	6 15 5	66.94	17.46	7.52	58.65	999.00	60.73	16.13	7.83	59.17	62.11	11.56	13.14	60.10	999.00	-1.36	999.00	-0.85	0.00
20	6 15 6	75.90	18.79	3.30	58.77	999.00	69.38	18.10	4.63	59.28	72.60	11.36	11.17	60.10	999.00	-1.21	999.00	-0.73	0.00
20	6 15 7	81.10	17.50	4.77	59.53	999.00	74.50	16.50	5.92	60.13	75.20	10.11	11.21	60.99	999.00	-1.62	999.00	-0.95	0.00
20	6 15 8	84.50	13.46	5.88	59.53	999.00	77.90	13.16	6.09	60.13	79.20	9.15	13.79	60.99	999.00	-2.12	999.00	-1.29	0.00
	6 15 9	97.20	13.40	6.56	61.06	999.00	91.40	12.32	9.13	61.97	86.10	8.38	15.73	63.67	999.00	-2.86	999.00	-1.98	0.00
		92.50	12.90	5.63	61.28		85.10	12.66	6.14	62.10	89.10	8.30	17.95	64.12	999.00	-2.93	999.00		0.00
20						999.00												-2.10	
	6 15 11	88.50	13.55	7.72		999.00	82.40	13.43	7.96	62.53	86.80	9.52	15.12		999.00		999.00	-2.04	0.00
	6 15 12		12.93	9.38		999.00	59.63	12.94	8.38	63.14	59.44		13.28		999.00		999.00	-1.59	0.00
	6 15 13	73.80	16.77	6.72		999.00	68.46	16.38	6.45	63.58	74.20		12.55		999.00		999.00	-2.06	0.00
	6 15 14	65.66	16.74	8.43		999.00	58.24	16.38	8.05	63.51	59.13	13.91	12.94		999.00		999.00	-2.20	0.00
	6 15 15	73.30	18.20	7.68		999.00	65.37	17.56	8.43	63.36	65.75	13.67	12.40		999.00		999.00	-2.18	0.00
	6 15 16	78.40	17.93	6.90		999.00	71.60	17.37	7.65	64.20	73.90	13.28	13.29		999.00		999.00	-2.15	0.00
	6 15 17	88.90	21.48	3.77		999.00	82.80	20.86	4.48	64.16	85.90	13.67	13.75		999.00		999.00	-2.22	0.00
20	6 15 18	97.70	16.57	7.03	63.09	999.00	90.90	15.84	8.17	64.01	91.90	10.44	16.75	66.04	999.00		999.00	-1.82	0.00
20	6 15 19	104.00	19.14	4.64	63.26	999.00	97.00	18.09	6.21	64.19	100.80	10.02	15.98	65.91	999.00	-2.48	999.00	-1.72	0.00
20	6 15 20	105.20	14.26	3.49	63.86	999.00	95.50	14.36	3.83	64.48	95.40	8.21	13.99	65.85	999.00	-1.82	999.00	-1.15	0.00

20	6 15 21	102.30	14.15	3.20	63.82	999.00	95.40	13.90	3.78	64.47	99.20	7.29	14.77	65.37	999.00	-1.31	999.00	-0.79	0.00
20	6 15 22	94.50	13.46	3.47	63.51	999.00	87.40	12.97	4.04	64.01	87.70	6.13	13.81	64.62	999.00	-1.09	999.00	-0.60	0.00
20	6 15 23	100.70	13.32	4.09	63.47	999.00	93.80	12.62	5.03	63.95	103.70	5.46	15.02	64.50	999.00	-0.96	999.00	-0.48	0.00
20	6 15 24	96.90	12.20	3.26	63.72	999.00	90.20	11.47	3.69	64.16	94.40	4.97	15.24	64.56	999.00	-0.76	999.00	-0.35	0.00
20	6 16 1	86.60	13.94	4.30	63.72	999.00	79.00	13.26	4.43	64.16	77.30	7.34	10.85	64.56	999.00	-0.86	999.00	-0.44	0.00
20	6 16 2		15.27	3.67	65.08	999.00	93.80	14.03	4.55	65.45	93.60	5.88	14.73	65.78	999.00		999.00	-0.21	0.00
20	6 16 3		14.84	3.24	64.93	999.00	99.50	14.34	4.33		100.80	7.13	12.89	65.62	999.00	-0.80	999.00	-0.34	0.00
20		101.30	13.81	3.95	63.97	999.00	94.30	13.21	4.01		102.00	6.19	12.64	64.79	999.00	-0.81	999.00	-0.35	0.00
	6 16 5							10.98	3.56		102.00		13.06		999.00	-0.73	999.00		0.00
20			11.39	3.05	63.50	999.00	100.00					5.05		64.29				-0.29	
20		107.80	10.56	3.42	63.36	999.00	99.30	10.41	3.33		107.20	4.88	10.90	64.01	999.00	-0.64	999.00	-0.19	0.00
20		101.50	10.76	2.48	63.35	999.00	94.90	10.40	3.09		105.50	4.67	13.31	64.15	999.00	-0.94	999.00	-0.40	0.00
20		101.80	10.50	6.45	63.32	999.00	94.30	9.98	8.55	64.04	96.10	6.34	15.10	65.17	999.00	-2.15	999.00	-1.36	0.00
20	6 16 9	101.60	11.04	4.57	63.36	999.00	94.80	10.72	6.15	64.15	104.00	7.04	17.13	65.71	999.00	-2.54	999.00	-1.73	0.00
20	6 16 10	99.60	8.79	7.77	63.60	999.00	90.00	8.88	8.33	64.43	83.60	7.09	15.16	66.19	999.00	-2.46	999.00	-1.61	0.00
20	6 16 11	96.20	8.44	6.66	64.19	999.00	86.80	8.71	6.64	65.03	81.60	7.84	13.44	66.65	999.00	-2.63	999.00	-1.79	0.00
20	6 16 12	85.50	9.31	8.23	65.30	999.00	75.10	9.52	8.58	66.19	74.70	8.78	14.85	67.76	999.00	-2.50	999.00	-1.46	0.00
20	6 16 13	79.50	9.14	9.10	65.81	999.00	70.40	9.32	9.12	66.86	70.20	8.22	14.47	68.37	999.00	-2.49	999.00	-1.47	0.00
20	6 16 14	87.10	10.47	7.83	65.81	999.00	78.70	10.46	9.49	66.86	75.90	9.30	13.69	68.37	999.00	-2.92	999.00	-2.00	0.00
20	6 16 15	81.10	10.68	9.13	67.56	999.00	73.40	10.64	10.27	68.43	72.70	10.09	13.99	70.50	999.00	-2.62	999.00	-1.78	0.00
20	6 16 16	84.90	12.08	9.17	68.09	999.00	78.50	11.65	8.67	68.97	73.10	10.14	14.17	70.93	999.00	-2.89	999.00	-2.02	0.00
20	6 16 17	83.10	11.76	7.17	68.68	999.00	76.60	11.39	8.20	69.44	72.60	9.88	12.23	71.23	999.00	-2.50	999.00	-1.76	0.00
20	6 16 18	91.50	14.73	3.93	69.14	999.00	85.30	13.50	5.37	69.83	85.10	9.54	12.74	71.45	999.00	-2.33	999.00	-1.63	0.00
20	6 16 19	98.20	12.19	4.64	69.33	999.00	94.80	11.29	6.70	69.76	94.30	7.31	14.53	71.07	999.00	-1.45	999.00	-1.32	0.00
20	6 16 20	107.70	11.75	7.37	68.56	999.00	102.70	10.62	7.31	68.87	100.20	6.13	15.88	69.90	999.00	-1.34	999.00	-0.82	0.00
20	6 16 21		11.42	7.27	66.74	999.00	104.80	10.25	8.62		104.70	4.64	16.75	67.93	999.00	-0.86	999.00	-0.51	0.00
20	6 16 22		12.26	4.27	66.31	999.00	110.90	10.86	5.49		111.60	4.80	14.34	66.85	999.00	-0.27	999.00	-0.05	0.00
20	6 16 23		11.89	3.18	67.05	999.00	104.40	9.68	4.52		101.00	3.27	11.38	66.69	999.00	0.77	999.00	0.34	0.00
20	6 16 24	94.30	9.48	3.14	67.94	999.00	92.70	6.79	4.08	67.07	91.10	2.94	11.40	66.61	999.00	1.83	999.00	0.34	0.00
	6 17 1			3.37	66.14	999.00				65.88	100.70		11.40				999.00	0.12	0.00
20			8.96				101.10	8.05	3.10			3.20		65.54		0.09			
20		76.20	9.25	2.30	65.25	999.00	69.29	8.69	2.57	65.36	79.00	4.51	7.82	65.14	999.00	0.00	999.00	0.25	0.00
20	6 17 3	68.65	8.90	4.59	65.25	999.00	59.77	8.66	5.18	65.36	70.70	5.07	8.43	65.14		-0.72	999.00	-0.28	0.00
20	6 17 4	74.90	9.50	3.31	65.41	999.00	70.20	9.52	3.41	65.83	80.90	5.44	10.56	65.88	999.00	-0.37	999.00	0.05	0.00
20		86.40	9.89	2.42	65.04	999.00	79.90	9.59	2.30	65.41	87.90	4.71	9.64	65.34	999.00	-0.16	999.00	0.22	0.00
20	6 17 6	72.70	10.53	3.55	64.69	999.00	65.79	10.37	3.57	65.14	73.50	6.15	9.50	65.26	999.00	-0.81	999.00	-0.33	0.00
20	6 17 7	84.70	11.99	3.29	64.33	999.00	77.60	11.84	4.03	64.83	83.00	7.21	11.23	65.18	999.00	-1.10	999.00	-0.54	0.00
20	6 17 8	68.83	10.52	5.80	64.57	999.00	64.22	10.00	6.51	65.26	71.90	6.93	15.20	66.09	999.00	-1.59	999.00	-0.88	0.00
20	6 17 9	88.40	10.74	5.82	64.75	999.00	83.60	10.54	7.15	65.62	91.20	7.15	16.63	67.02	999.00	-2.54	999.00	-1.68	0.00
20	6 17 10	99.20	9.43	9.88	64.71	999.00	93.50	9.34	9.76	65.47	101.20	7.56	18.32	67.19	999.00	-2.59	999.00	-1.74	0.00
20	6 17 11	96.20	9.11	8.27	65.38	999.00	89.40	9.16	8.72	66.27	88.90	7.52	18.24	68.05	999.00	-2.78	999.00	-1.89	0.00
20	6 17 12	87.50	9.82	7.25	65.38	999.00	83.60	9.97	5.76	66.27	90.20	8.09	12.69	68.05	999.00	-2.33	999.00	-1.67	0.00
20	6 17 13	82.80	9.61	9.71	66.62	999.00	75.40	9.46	10.33	67.47	69.79	8.62	16.50	69.24	999.00	-2.30	999.00	-1.34	0.00
20	6 17 14	70.50	10.61	7.69	67.83	999.00	65.74	9.91	6.55	68.50	61.96	9.16	9.04	69.91	999.00	-1.38	999.00	-1.03	0.00
20	6 17 15	49.96	8.32	11.82	69.13	999.00	49.53	8.09	10.35	69.41	50.41	8.07	15.12	70.65	999.00	-1.76	999.00	-1.37	0.00
	6 17 16		7.59	11.73		999.00	54.43	6.85	11.74	71.41	51.62	6.53	19.44		999.00		999.00	-1.06	0.00
	6 17 17	74.50	11.28	7.56		999.00	64.14	9.97	8.41	72.46	59.77	8.04	10.72		999.00		999.00	-0.38	0.00
	6 17 18	69.47	13.68	3.77		999.00	59.16	11.80	6.36	73.26	62.10	8.79	11.37		999.00		999.00	-0.51	0.00
	6 17 19	88.80	12.63	4.45	72.05	999.00	85.40	10.23	6.33	72.64	98.80	5.47	15.85		999.00		999.00	-1.30	0.00
	6 17 20	91.80	15.12	2.27	72.03	999.00	87.60	12.69	3.95	70.83	96.60	6.89	14.43		999.00		999.00	-0.45	0.00
	6 17 21		13.12	4.97		999.00	110.30	11.43	5.82		113.20	5.67	15.63		999.00		999.00	-0.43	0.00
	6 17 21		16.63	3.39		999.00	106.60	13.93	4.83		109.60	5.16	14.99		999.00		999.00	0.12	0.00
						999.00									999.00				
	6 17 23		13.95	4.41				12.36	4.67		104.50	5.89	14.11				999.00	-0.10	0.00
20	6 17 24	132.80	11.68	3.96	69.2/	999.00	12/.30	9.43	4.34	69.25	143.30	3.63	12.99	69.10	999.00	0.35	999.00	0.24	0.00

20 6 18 2 1229,90 14.62 3.05 70.00 399.00 12.65 12.09 3.00 89.92 142.00 4.43 9.55 8.007 999.00 1.77 999.00 1.65 0.00 0.00 6.15 0.00 6.15 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0																				
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20	20	6 18 2	121.40	9.45	5.22	70.46	999.00			5.96	70.29			43.33	68.91	999.00	1.67	999.00	1.49	
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20 6 18 6 93.10 8.89 7.71 17.2 8.93 6.17 99.00 85.10 10.40 2.26 88.73 97.00 4.47 11.55 86.36 999.00 0.23 999.00 0.24 0.00 20 6 18 8 66.79 6.47 6.66 68.24 999.00 66.11 7.99 5.75 67.69 70.00 5.50 11.40 7.87 999.00 0.23 999.00 -0.74 0.00 21 6 18 10 10.40 6.00 6.00 4.89 10.99 10.90 4.68 10.90 77.00 5.50 11.40 7.80 10.90 10.20 999.00 -0.74 0.00 22 6 18 11 10.40 6.00 6.00 4.89 10.99 10.90 4.68 10.90 77.00 5.50 11.00 7.80 10.90 10.20 999.00 -0.75 0.00 23 6 18 11 10.40 6.00 6.00 4.89 10.99 10.90 4.68 10.90 77.00 5.00 10.90 1	20	6 18 4	87.80	4.78	6.38	69.68	999.00	59.40	4.86	6.16	69.49	12.82	2.31	15.80	68.38	999.00	0.94	999.00	0.84	0.00
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20 6 18 7 95.70 8.12 5 95.70 8.12 5 95.80 88.15 959.00 88.60 8.64 7.66 67.88 77.50 5 .03 11.40 67.27 999.00 -0.12 990.00 -0.44 0.00 21.0 6 18 19 85.50 7.99 65.75 67.42 999.00 88.00 7.40 6.38 68.07 78.60 5.83 13.28 68.12 999.00 -1.65 999.00 -0.13 0.00 21.0 6 18 10 18.39 4.00 15.75 68.60 999.00 87.80 5 .05 18.15 999.00 -0.14 999.00 18.00 0.00 18.00	20	6 18 6				68.61														
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20 6 1 8 21 10 3.50 12 3.33 6.07 72 27 99 9.00 112.00 5.71 7.25 71 7.55	20	6 18 19	106.70	15.35	8.07	71.24	999.00	100.30	13.38	9.73	71.96	100.80	7.25	16.57	73.43	999.00	-1.91	999.00	-1.40	0.00
20 6 1 8 21 10 3,50 12,33 6,07 72,27 99,00 93,60 9,81 7,89 72,21 89,60 4,28 19,21 73,07 999,00 -0.18 999,00 -0.16 0.00 20 6 18 23 136,70 5,91 9,93 70,60 999,00 115,50 5,19 7,53 70,77 103,60 1,73 23,44 71,05 999,00 -0.15 999,00 -0.00 0.00 0.00 20 6 19 1 256,80 5,48 4,51 70,37 999,00 253,20 4,09 7,71 70,58 283,40 2,61 26,11 6,61 6,99 0.00 1,09 7,71 70,58 283,40 2,61 26,11 6,99 99,00 1,89 0.00 1,29 6,19 1,88 99,00 29,90 0.00 1,28 1,21 8,99 0.00 1,28 2,20 1,88 4,72 1,88 9,90 0.1,11 999,00 1,28 9,90 0.00 <td>20</td> <td>6 18 20</td> <td>102.10</td> <td>11.10</td> <td>4.86</td> <td>72.27</td> <td>999.00</td> <td>93.20</td> <td>8.32</td> <td>6.56</td> <td>72.21</td> <td>92.00</td> <td>5.44</td> <td>15.61</td> <td>73.07</td> <td>999.00</td> <td>-0.08</td> <td>999.00</td> <td>-0.46</td> <td>0.00</td>	20	6 18 20	102.10	11.10	4.86	72.27	999.00	93.20	8.32	6.56	72.21	92.00	5.44	15.61	73.07	999.00	-0.08	999.00	-0.46	0.00
20 6 18 22 125,40 7.40 4.72 71.33 999.00 112,00 5.71 7.25 71.45 89.40 2.07 28.32 71.63 999.00 -0.16 0.00 20 6 18 24 129.40 4.73 23.04 70.65 999.00 80.60 3.59 30.27 70.56 40.68 3.48 27.11 70.47 999.00 -0.01 999.00 1.69 999.00 1.69 999.00 35.00 3.59 30.27 70.56 40.68 3.48 22.11 70.47 999.00 1.69 999.00 357.00 3.57 8.66 999.00 329.60 1.94 21.18 68.45 999.00 1.15 0.00 20 6.19 3.45 15.06 999.00 35.70 3.57 8.66 999.00 329.60 1.94 21.18 68.45 999.00 1.15 0.00 20 6.19 2.18 199.00 3.52 999.00 1.15 <	20	6 18 21	103.50	12.33	6.07	72.27	999.00			7.89	72.21	89.60	4.28	19.21	73.07	999.00	-0.41	999.00	-0.45	0.00
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20 6 19 12 77.80 4.88 24.51 74.71 999.00 60.21 4.90 20.32 75.54 30.28 5.15 16.28 76.27 999.00 -1.30 999.00 -0.29 0.00 20 6 19 13 21.26 4.53 16.60 75.59 999.00 8.41 5.50 11.90 75.76 7.77 7.93 7.12 76.25 999.00 0.13 999.00 -0.03 0.00 20 6 19 14 19.51 5.73 12.62 75.42 999.00 12.94 6.12 12.55 75.46 12.73 7.29 13.81 76.10 999.00 -0.92 999.00 -0.89 0.00 20 6 19 15 45.51 5.04 15.26 76.68 999.00 83.00 6.27 16.56 77.38 70.90 5.55 22.81 78.22 999.00 -1.30 999.00 -0.69 0.00 20 6 19 17 74.00 5.56 13.90 76.55 999.00 78.90 5.70 14.43 77.16 102.20 4.53 18.42 78.50 999.00 -1.57 999.00 -1.14 0.00 20 6 19 18 60.51 4.43 19.27 77.73 999.00 61.98 4.65 15.54 78.32 57.46 4.69 17.60 79.03 999.00 -1.41 999.00 -0.54 0.00 20 6 19 20 107.00 9.89 2.03 77.11 999.00 102.20 9.74 3.56 77.69 188.30 2.48 24.64 78.40 999.00 -1.00 999.00 -0.68 0.00 20 6 19 21 126.00 9.79 2.11 77.65 999.00 102.20 9.74 3.56 77.69 103.10 4.27 16.26 78.40 999.00 0.55 999.00 0.44 0.00 20 6 19 22 168.40 7.93 5.43 999.00 133.10 8.98 2.77 76.83 121.70 3.17 15.48 76.25 999.00 1.39 999.00 0.44 0.00 20 6 19 22 168.40 7.93 5.43 999.00 133.10 8.98 2.77 76.83 121.70 3.17 15.48 76.25 999.00 1.39 999.00 0.46 0.00 20 6 19 24 164.80 8.18 4.27 76.53 999.00 133.10 9.67 2.77 76.02 141.60 2.87 13.43 74.27 999.00 1.39 999.00 2.84 0.00 20 6 20 2 161.70 10.97 2.93 74.44 999.00 162.40 9.08 2.26 75.59 146.50 2.21 10.35 71.53 999.00 2.88 999.00 2.44 0.00 20 6 20 2 161.70 10.97 2.93 74.44 999.00 162.40 9.08 2.26 75.59 146.50 2.21 10.35 71.53 999.00 2.88 999.00 2.44 0.00 20 6 20 2 161.70 10.97 2.93 74.44 999.00 140.10 8.73 2.15 75.29 146.50 2.21 10.35 71.53 999.00 5.01 999.00 2.44 0.00 20 6 20 3 172.90 8.80 2.37 76.05 999.00 170.10 8.73 2.15 75.29 146.50 2.21 10.35 71.53 999.00 5.01 999.00 2.44 0.00 2.66 20 2 161.70 10.97 2.93 74.44 999.00 140.10 8.73 2.15 75.29 146.50 2.21 10.35 71.53 999.00 5.01 999.00 2.88 999.00 2.44 0.00 2.66 20 2 161.70 10.97 2.93 74.44 999.00 170.10 8.73 2.15 75.29 146.50 2.21 10.35 71.53 999.00 5.01 999.00 4.27 0.00 2.66 20 2 161.70 10.97 2.93 74.44 999.00 170.10 8.73	20	6 19 10	126.40	2.60					2.84	38.39	73.41		1.92	54.52	73.97	999.00		999.00	-1.18	0.00
20 6 19 13 21.26 4.53 16.60 75.59 999.00 8.41 5.50 11.90 75.76 7.77 7.93 7.12 76.25 999.00 0.13 999.00 -0.03 0.00 20 6 19 14 19.51 5.73 12.62 75.42 999.00 12.94 6.12 12.55 75.46 12.73 7.29 13.81 76.10 999.00 -0.92 999.00 -0.89 0.00 20 6 19 15 45.51 5.04 15.26 76.68 999.00 33.47 5.00 15.29 77.11 25.55 6.20 16.23 77.88 999.00 -1.30 999.00 -0.69 0.00 20 6 19 16 90.40 6.45 14.45 76.76 999.00 83.00 6.27 16.56 77.38 70.90 5.55 22.81 78.22 999.00 -1.57 999.00 -1.30 0.00 20 6 19 18 60.51 4.43 19.27 77.73 999.00 78.90 5.70 14.43 77.16 102.20 4.53 18.42 78.50 999.00 -1.57 999.00 -1.14 0.00 20 6 19 19 87.90 4.45 9.59 77.11 999.00 73.60 3.74 20.85 77.69 88.30 2.48 24.64 78.40 999.00 -1.00 999.00 -0.68 0.00 20 6 19 21 126.00 9.79 2.11 77.65 999.00 119.80 8.98 2.77 76.83 121.70 3.17 15.48 76.25 999.00 1.63 999.00 0.44 0.00 20 6 19 22 168.40 7.93 5.43 999.00 119.80 8.98 2.77 76.83 121.70 3.17 15.48 76.25 999.00 1.63 999.00 0.97 0.00 20 6 19 24 164.80 8.18 4.27 76.53 999.00 15.81.00 8.09 6.95 999.00 173.30 2.59 19.96 75.33 999.00 1.63 999.00 0.95 0.00 20 6 19 24 164.80 8.18 4.27 76.53 999.00 160.40 8.27 3.09 76.07 207.20 1.89 12.69 73.68 999.00 3.66 999.00 2.84 0.00 20 6 20 3 172.90 8.80 2.37 76.05 999.00 170.10 8.73 2.15 75.29 146.50 2.21 10.35 71.53 999.00 5.01 999.00 4.27 0.00			95.90	4.80	22.64	73.45	999.00	77.00	4.78	18.18	74.70	55.14	4.39	21.80	75.63	999.00	-2.12	999.00	-0.83	
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20 6 19 15 45.51 5.04 15.26 76.68 999.00 33.47 5.00 15.29 77.11 25.55 6.20 16.23 77.88 999.00 -1.30 999.00 -0.69 0.00 20 6 19 16 90.40 6.45 14.45 76.76 999.00 83.00 6.27 16.56 77.38 70.90 5.55 22.81 78.22 999.00 -2.24 999.00 -1.30 0.00 20 6 19 17 74.00 5.56 13.90 76.55 999.00 78.90 5.70 14.43 77.16 102.20 4.53 18.42 78.50 999.00 -1.57 999.00 -1.14 0.00 20 6 19 18 60.51 4.43 19.27 77.73 999.00 61.98 4.65 15.54 78.32 57.46 4.69 17.60 79.03 999.00 -1.41 999.00 -0.54 0.00 20 6 19 19 87.90 4.45 9.59 77.11 999.00 73.60 3.74 20.85 77.69 88.30 2.48 24.64 78.40 999.00 -1.00 999.00 -0.68 0.00 20 6 19 21 126.00 9.79 2.11 77.65 999.00 102.20 9.74 3.56 77.69 103.10 4.27 16.26 78.40 999.00 0.69 999.00 0.44 0.00 20 6 19 22 168.40 7.93 5.43 999.00 999.00 158.10 8.98 2.77 76.83 121.70 3.17 15.48 76.25 999.00 1.63 999.00 0.46 0.00 20 6 19 23 151.30 11.44 2.79 76.08 999.00 139.10 9.67 2.77 76.02 141.60 2.87 13.43 74.27 999.00 1.39 999.00 0.95 0.00 20 6 19 24 164.80 8.18 4.27 76.53 999.00 162.40 9.08 2.26 75.59 172.10 1.50 33.25 72.68 999.00 3.79 999.00 2.84 0.00 20 6 20 2 161.70 10.97 2.93 74.44 999.00 154.10 10.20 3.51 74.08 135.60 3.42 10.64 71.60 999.00 5.01 999.00 2.84 0.00 20 6 20 3 172.90 8.80 2.37 76.05 999.00 170.10 8.73 2.15 75.29 146.50 2.21 10.35 71.53 999.00 5.01 999.00 4.27 0.00	20	6 19 13	21.26	4.53	16.60	75.59	999.00	8.41	5.50	11.90	75.76	7.77	7.93	7.12	76.25	999.00	0.13	999.00	-0.03	0.00
20 6 19 16 90.40 6.45 14.45 76.76 999.00 83.00 6.27 16.56 77.38 70.90 5.55 22.81 78.22 999.00 -2.24 999.00 -1.30 0.00 20 6 19 17 74.00 5.56 13.90 76.55 999.00 78.90 5.70 14.43 77.16 102.20 4.53 18.42 78.50 999.00 -1.57 999.00 -1.14 0.00 20 6 19 18 60.51 4.43 19.27 77.73 999.00 61.98 4.65 15.54 78.32 57.46 4.69 17.60 79.03 999.00 -1.41 999.00 -0.54 0.00 20 6 19 19 87.90 4.45 9.59 77.11 999.00 73.60 3.74 20.85 77.69 88.30 2.48 24.64 78.40 999.00 -1.00 999.00 -0.68 0.00 20 6 19 20 107.00 9.89 2.03 77.11 999.00 102.20 9.74 3.56 77.69 103.10 4.27 16.26 78.40 999.00 0.69 999.00 0.44 0.00 20 6 19 21 126.00 9.79 2.11 77.65 999.00 119.80 8.98 2.77 76.83 121.70 3.17 15.48 76.25 999.00 1.63 999.00 0.40 0.00 20 6 19 22 168.40 7.93 5.43 999.00 999.00 158.10 8.09 6.95 999.00 173.30 2.59 19.96 75.33 999.00 0.55 999.00 0.46 0.00 20 6 19 23 151.30 11.44 2.79 76.08 999.00 139.10 9.67 2.77 76.02 141.60 2.87 13.43 74.27 999.00 1.39 999.00 0.95 0.00 20 6 19 24 164.80 8.18 4.27 76.53 999.00 160.40 8.27 3.09 76.07 207.20 1.89 12.69 73.68 999.00 3.66 999.00 2.84 0.00 20 6 20 2 161.70 10.97 2.93 74.44 999.00 154.10 10.20 3.51 74.08 135.60 3.42 10.64 71.66 999.00 2.88 999.00 2.44 0.00 20 6 20 2 161.70 10.97 2.93 74.44 999.00 154.10 10.20 3.51 74.08 135.60 3.42 10.64 71.66 999.00 2.88 999.00 2.44 0.00 20 6 20 2 161.70 10.97 2.93 74.44 999.00 154.10 10.20 3.51 74.08 135.60 3.42 10.64 71.66 999.00 2.88 999.00 2.44 0.00 20 6 20 3 172.90 8.80 2.37 76.05 999.00 170.10 8.73 2.15 75.29 146.50 2.21 10.35 71.53 999.00 5.01 999.00 4.27 0.00	20	6 19 14	19.51	5.73	12.62	75.42	999.00	12.94	6.12	12.55	75.46	12.73	7.29	13.81	76.10	999.00	-0.92	999.00	-0.89	0.00
20 6 19 17 74.00 5.56 13.90 76.55 999.00 78.90 5.70 14.43 77.16 102.20 4.53 18.42 78.50 999.00 -1.57 999.00 -1.14 0.00 20 6 19 18 60.51 4.43 19.27 77.73 999.00 61.98 4.65 15.54 78.32 57.46 4.69 17.60 79.03 999.00 -1.41 999.00 -0.54 0.00 20 6 19 19 87.90 4.45 9.59 77.11 999.00 73.60 3.74 20.85 77.69 88.30 2.48 24.64 78.40 999.00 -1.00 999.00 -0.68 0.00 20 6 19 20 107.00 9.89 2.03 77.11 999.00 102.20 9.74 3.56 77.69 103.10 4.27 16.26 78.40 999.00 0.69 999.00 0.44 0.00 20 6 19 21 126.00 9.79 2.11 77.65 999.00 119.80 8.98 2.77 76.83 121.70 3.17 15.48 76.25 999.00 1.63 999.00 0.97 0.00 20 6 19 22 168.40 7.93 5.43 999.00 999.00 158.10 8.09 6.95 999.00 173.30 2.59 19.96 75.33 999.00 0.55 999.00 0.46 0.00 20 6 19 24 164.80 8.18 4.27 76.53 999.00 160.40 8.27 3.09 76.07 207.20 18.91 12.69 73.68 999.00 3.69 999.00 2.84 0.00 20 6 20 1 168.00 10.31 1.65 76.35 999.00 162.40 9.08 2.26 75.59 172.10 1.50 33.25 72.68 999.00 3.79 999.00 2.44 0.00 20 6 20 2 161.70 10.97 2.93 74.44 999.00 154.10 10.20 3.51 74.08 135.60 3.42 10.64 71.60 999.00 5.01 999.00 4.27 0.00 20 6 20 3 172.90 8.80 2.37 76.05 999.00 170.10 8.73 2.15 75.29 146.50 2.21 10.35 71.53 999.00 5.01 999.00 4.27 0.00	20	6 19 15	45.51	5.04	15.26	76.68	999.00	33.47	5.00	15.29	77.11	25.55	6.20	16.23	77.88	999.00	-1.30	999.00	-0.69	0.00
20 6 19 17 74.00 5.56 13.90 76.55 999.00 78.90 5.70 14.43 77.16 102.20 4.53 18.42 78.50 999.00 -1.57 999.00 -1.14 0.00 20 6 19 18 60.51 4.43 19.27 77.73 999.00 61.98 4.65 15.54 78.32 57.46 4.69 17.60 79.03 999.00 -1.41 999.00 -0.54 0.00 20 6 19 19 87.90 4.45 9.59 77.11 999.00 73.60 3.74 20.85 77.69 88.30 2.48 24.64 78.40 999.00 -1.00 999.00 -0.68 0.00 20 6 19 20 107.00 9.89 2.03 77.11 999.00 102.20 9.74 3.56 77.69 103.10 4.27 16.26 78.40 999.00 0.69 999.00 0.44 0.00 20 6 19 21 126.00 9.79 2.11 77.65 999.00 119.80 8.98 2.77 76.83 121.70 3.17 15.48 76.25 999.00 1.63 999.00 0.97 0.00 20 6 19 22 168.40 7.93 5.43 999.00 999.00 158.10 8.09 6.95 999.00 173.30 2.59 19.96 75.33 999.00 0.55 999.00 0.46 0.00 20 6 19 24 164.80 8.18 4.27 76.53 999.00 160.40 8.27 3.09 76.07 207.20 18.91 12.69 73.68 999.00 3.69 999.00 2.84 0.00 20 6 20 1 168.00 10.31 1.65 76.35 999.00 162.40 9.08 2.26 75.59 172.10 1.50 33.25 72.68 999.00 3.79 999.00 2.44 0.00 20 6 20 2 161.70 10.97 2.93 74.44 999.00 154.10 10.20 3.51 74.08 135.60 3.42 10.64 71.60 999.00 5.01 999.00 4.27 0.00 20 6 20 3 172.90 8.80 2.37 76.05 999.00 170.10 8.73 2.15 75.29 146.50 2.21 10.35 71.53 999.00 5.01 999.00 4.27 0.00	20	6 19 16	90.40	6.45	14.45	76.76	999.00	83.00	6.27	16.56	77.38	70.90	5.55	22.81	78.22	999.00	-2.24	999.00	-1.30	0.00
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20 6 20 4 179.60 7.44 6.43 75.61 999.00 180.30 4.87 13.04 74.71 261.90 2.84 13.24 71.00 999.00 3.26 999.00 1.94 0.00										2.15									4.27	
	20	6 20 4	179.60	7.44	6.43	75.61	999.00	180.30	4.87	13.04	74.71	261.90	2.84	13.24	71.00	999.00	3.26	999.00	1.94	0.00

00 6 00 5 010 50	0 81	0 65 50 00	000 00 010 00	0 51	0 61	50.06	0.45 60	0 01	0.4.00	60 56	000 00	- 0-	00000	4 1 5	0 00
20 6 20 5 219.70			999.00 210.00	8.51	3.61	72.26		0.91	24.80		999.00		999.00	4.15	0.00
20 6 20 6 208.60		.0.28 74.37	999.00 184.20	5.46	8.87	73.75		3.37	7.59	69.25	999.00	4.71	999.00	4.05	0.00
20 6 20 7 183.70		5.38 74.67		7.76	8.79	73.98		3.10	27.13	69.58	999.00	4.69	999.00	4.36	0.00
20 6 20 8 248.40			999.00 234.40	9.40	3.39	69.87		4.04	13.64	69.20	999.00	2.33	999.00	1.21	0.00
20 6 20 9 240.00		5.78 73.11		5.48	11.44	71.93		4.47	14.27	72.18	999.00	-1.00	999.00	-1.04	0.00
20 6 20 10 253.30	5.33 1	2.69 74.75	999.00 251.90	5.50	11.37	75.36	262.10	4.72	14.90	76.78	999.00	-2.22	999.00	-1.55	0.00
20 6 20 11 244.00	4.18 5	55.07 77.91	999.00 247.20	3.96	63.91	78.69	257.30	3.49	74.50	80.07	999.00	-2.15	999.00	-1.31	0.00
20 6 20 12 89.80	7.64	6.21 77.92	999.00 84.30	8.18	6.39	78.39	93.80	7.03	12.98	78.75	999.00	-1.32	999.00	-1.01	0.00
20 6 20 13 103.40	9.56	3.06 77.92	999.00 91.80	9.92	4.87	78.39	91.00	7.48	14.56	78.75	999.00	-1.34	999.00	-1.36	0.00
20 6 20 14 106.30	12.68	4.83 77.68	999.00 96.90	12.37	6.46	78.10	93.80	9.33	14.52	80.13	999.00	-2.15	999.00	-1.94	0.00
20 6 20 15 103.60	12.46	3.42 78.34	999.00 94.10	11.88	6.08	78.73	92.20	7.70	17.02	80.93	999.00	-2.67	999.00	-2.38	0.00
20 6 20 16 101.00		2.01 79.71		13.11	4.55	79.46	93.40	8.61	13.60	81.28	999.00	-1.33	999.00	-1.52	0.00
20 6 20 17 105.70		2.38 80.08	999.00 96.20	14.44	5.35	79.62	97.30	7.10	17.39	81.38	999.00	-0.79	999.00	-1.54	0.00
20 6 20 18 112.20		2.21 80.36	999.00 104.50	16.63	4.83	79.62		7.72	16.70	80.70	999.00	-0.05	999.00	-0.69	0.00
20 6 20 19 120.70		1.43 80.88	999.00 107.50	15.92	3.96	80.20		6.82	15.68	80.63	999.00	0.54	999.00	-0.41	0.00
20 6 20 20 127.00		2.75 79.96	999.00 118.90	14.44	4.04	79.35		6.75	13.39	79.57		0.02	999.00	-0.19	0.00
20 6 20 21 129.30		1.28 79.35	999.00 121.70	16.53	2.89	78.53		6.81	14.57	78.42	999.00	1.54	999.00	0.22	0.00
20 6 20 22 139.70		1.53 78.83	999.00 128.10	14.85	2.56	77.66		5.70	12.98	77.25	999.00	3.35	999.00	0.80	0.00
20 6 20 22 139.70		0.67 80.75	999.00 128.10	15.58	1.92	79.04		4.67	12.75	77.18	999.00	2.79	999.00	1.66	0.00
20 6 20 23 143.80		2.80 79.94	999.00 134.40	15.65	4.29	79.47		5.65	15.13	78.67	999.00	0.68	999.00	0.42	0.00
20 6 21 1 166.60		3.10 999.00	999.00 157.80	14.75	4.64	999.00		4.64	19.88	78.33	999.00	0.99	999.00	0.38	0.00
20 6 21 2 198.10		3.46 78.13	999.00 190.00	15.68	4.11	78.15		5.74	16.32	78.13	999.00	0.13	999.00	0.15	0.00
20 6 21 3 261.50		6.48 78.23	999.00 257.70	18.50	8.58	78.38		11.60	12.84	78.30	999.00	-0.65	999.00	-0.34	0.00
20 6 21 4 243.00		6.84 77.12		11.15	23.14	76.45		4.49	18.94	71.40	999.00	7.84	999.00	7.65	0.00
20 6 21 5 198.30		1.97 77.12		14.54	3.08	76.45		4.76	12.37	71.40	999.00	6.31	999.00	6.34	0.00
20 6 21 6 214.30		3.62 999.00	999.00 199.20	14.90	2.70	999.00		5.23	11.29	72.50	999.00	3.49	999.00	3.27	0.00
20 6 21 7 226.10		3.70 74.84	999.00 207.70	12.62	3.84	74.52		4.19	10.33	71.90	999.00	2.68	999.00	2.23	0.00
20 6 21 8 235.50		3.76 73.90	999.00 214.20	9.50	5.15	73.37		4.71	12.81	73.08	999.00	-0.43	999.00	-0.92	0.00
20 6 21 9 239.20	8.27	6.88 73.55	999.00 234.50	7.63	10.03	73.93		6.33	11.28	73.55	999.00	-0.87	999.00	-0.23	0.00
20 6 21 10 245.50	7.42	6.68 75.15	999.00 241.50	7.22	6.80	75.79	237.50	5.99	13.58	77.33	999.00	-2.28	999.00	-1.60	0.00
20 6 21 11 260.40	10.91	9.87 78.02	999.00 255.20	10.81	10.66	78.72	254.70	8.62	17.81	80.32	999.00	-2.34	999.00	-1.67	0.00
20 6 21 12 261.70	12.09	6.11 999.00	999.00 256.00	11.76	6.78	999.00	249.30	9.15	11.64	81.87	999.00	-2.18	999.00	-1.59	0.00
20 6 21 13 243.40	9.70	8.71 78.81	999.00 237.10	9.18	10.33	79.41	236.20	7.57	13.93	80.82	999.00	-2.57	999.00	-1.87	0.00
20 6 21 14 252.50	12.26	5.84 79.77	999.00 246.60	11.87	7.77	80.46	244.50	9.11	11.54	82.45	999.00	-2.48	999.00	-1.85	0.00
20 6 21 15 262.10	13.15	9.97 999.00	999.00 258.20	12.64	12.43	999.00	252.20	9.28	15.36	83.73	999.00	-2.88	999.00	-2.19	0.00
20 6 21 16 261.30	12.93	5.36 81.53	999.00 255.10	12.36	6.71	82.16	245.70	9.65	11.69	83.93	999.00	-2.27	999.00	-1.68	0.00
20 6 21 17 216.30	7.92 6	50.06 81.45	999.00 202.30	7.23	60.78	82.11	166.10	5.33	56.70	83.65	999.00	-1.88	999.00	-1.23	0.00
20 6 21 18 102.80	8.46 1	3.77 73.75	999.00 91.70	7.08	13.61	74.21	109.80	5.11	19.94	75.70	999.00	-1.76	999.00	-1.21	0.00
20 6 21 19 358.70	5.38	9.44 76.26	999.00 1.05	4.36	10.26	76.79	24.15	2.79	34.38	77.40	999.00	-0.76	999.00	-0.25	0.00
20 6 21 20 320.40		5.08 77.15	999.00 319.30	4.45	22.52	77.76		3.30	19.26	78.95	999.00	-1.56	999.00	-0.99	0.00
20 6 21 21 194.10		7.03 77.32	999.00 182.90	8.23	6.43	77.68		3.77	18.26	78.30	999.00	-0.77	999.00	-0.43	0.07
20 6 21 22 137.00		5.01 76.24	999.00 134.90	6.49	4.61	76.02		5.52	7.80	75.30	999.00	4.39	999.00	4.09	0.02
20 6 21 23 191.80			999.00 184.30	9.45	6.39	72.22		5.59	15.67		999.00		999.00	-0.98	0.00
20 6 21 24 187.90			999.00 186.10		10.42	69.11					999.00	-0.70		-0.72	0.00
20 6 22 1 230.90			999.00 231.10	12.84	4.25	69.55			10.72		999.00		999.00	-0.18	0.00
20 6 22 1 230.90			999.00 221.40	9.70	6.49	69.55		3.78	14.21		999.00		999.00	1.03	0.00
20 6 22 2 226.80			999.00 213.20	9.70	2.97	70.34		3.31	16.40		999.00		999.00	0.53	0.00
20 6 22 3 226.90			999.00 213.20			70.54			10.40					1.10	
				10.01	6.47			4.26			999.00		999.00		0.00
20 6 22 5 239.70			999.00 223.50	7.62	6.96	70.50		3.81	11.21		999.00		999.00	-0.29	0.00
20 6 22 6 244.50			999.00 235.10	9.19	7.47	69.71		4.39	17.77		999.00		999.00	-0.35	0.00
20 6 22 7 264.00			999.00 254.60	6.57	8.84	69.01		4.59	12.89		999.00		999.00	-0.96	0.00
20 6 22 8 288.90	4.02 1	3.37 68.38	999.00 254.40	3.79	12.57	68.74	224.40	2.83	13.46	69.65	999.00	-0.89	999.00	-0.90	0.00

00 6 00 0 170 20	0.05	F 40	60 70	000 00	160 50	0 00	F 00	60.04	160 50	4 01	10 10	70 10	000 00	1 00	000 00	1 06	0 00
20 6 22 9 170.30	8.05			999.00		8.03	5.93		160.50	4.21	19.43		999.00		999.00	-1.26	0.00
20 6 22 10 174.30	9.90			999.00		8.89	6.07		147.40	4.18	18.57	69.85	999.00	-0.87	999.00	-0.52	0.00
20 6 22 11 169.90	3.64			999.00	149.60	3.26	11.97		147.50	2.79	16.29	67.60	999.00	-1.16	999.00	-0.73	0.00
20 6 22 12 293.20				999.00	42.71	2.79	92.10		346.80	3.13	67.42	67.60	999.00	-4.00	999.00	-3.97	0.00
20 6 22 13 73.60 20 6 22 14 80.70				999.00	64.49	5.52	17.88	70.72	49.27	5.09	13.49	73.11	999.00	-3.65	999.00	-2.53	0.00
			71.87	999.00	76.60	6.20	14.32	72.78	79.50 98.80	5.12	25.11 15.92	75.65	999.00	-3.39	999.00	-2.52	0.00
	6.40 3 8.75		72.43	999.00	101.10 87.30	6.58 9.16	9.28 4.59	73.20 74.41	84.90	5.37 7.76	12.62	75.73 76.43	999.00 999.00	-3.65 -0.22	999.00 999.00	-3.09 0.39	0.00
20 6 22 16 95.20 20 6 22 17 104.70	13.97			999.00	97.20	13.40	6.52		101.20	8.48	17.79	75.88	999.00	-2.59	999.00	-2.15	0.00
20 6 22 17 104.70	15.02			999.00	95.10	14.08	5.84	74.41	96.80	8.16	15.31	76.55	999.00	-2.50	999.00	-2.13	0.00
20 6 22 18 103.30	12.80		74.09	999.00	106.50	11.62	6.75		109.50	6.41	16.87	77.10	999.00	-1.77	999.00	-1.63	0.00
20 6 22 19 119.30	13.54			999.00		11.52	5.13	999.00		4.97	15.91	76.77	999.00	-0.64	999.00	-0.85	0.00
20 6 22 21 131.90	14.72			999.00		13.06	4.10		121.30	5.81	15.70	76.32	999.00	-0.93	999.00	-0.58	0.00
20 6 22 22 166.40	13.74			999.00		12.48	3.43		132.50	4.07	14.09	75.70	999.00	2.54	999.00	0.98	0.00
20 6 22 23 185.00	13.85			999.00		11.19	1.90		147.20	2.78	14.37	75.70	999.00	1.65	999.00	1.32	0.00
20 6 22 24 186.10	15.08		76.74	999.00		12.44	3.52		167.50	3.52	18.40	75.35	999.00	1.20	999.00	0.78	0.00
20 6 23 1 204.00	16.96			999.00		13.43	4.88		193.90	4.12	14.60	74.85	999.00	0.94	999.00	0.50	0.00
20 6 23 2 198.30	17.59		75.59	999.00		14.50	4.77		186.40	5.09	16.77	75.03	999.00	-0.13	999.00	-0.19	0.00
20 6 23 3 191.40	18.99		99.00	999.00		15.18	5.46	999.00		5.44	18.78	75.03	999.00	-0.50	999.00	-0.43	0.00
20 6 23 4 197.50	20.58			999.00		18.03	5.14		191.70	7.36	17.33	74.92	999.00	-0.92	999.00	-0.63	0.00
20 6 23 5 227.70	14.24		73.55	999.00	218.90	12.70	4.36		213.80	6.46	13.37	74.60	999.00	-1.07	999.00	-0.64	0.00
20 6 23 6 207.90	10.94		72.87	999.00		9.67	7.37		193.10	3.80	17.78	73.78	999.00	-1.01	999.00	-0.70	0.00
20 6 23 7 196.70	13.07		71.31	999.00		11.23	4.50		198.00	4.16	17.37	72.10	999.00	-0.06	999.00	0.26	0.16
20 6 23 8 186.40	15.51				178.60	13.55	6.91		181.40	5.63	19.58	69.37	999.00	-1.57	999.00	-0.68	0.02
20 6 23 9 241.70			66.88	999.00		16.30	66.95		240.40	9.93	61.67	68.87	999.00	-2.29	999.00	-1.54	0.16
20 6 23 10 285.80	13.72			999.00	279.50	12.69	7.16	65.67	269.00	8.27	12.32	66.94	999.00	-1.71	999.00	-1.21	0.00
20 6 23 11 266.60	16.21		67.32	999.00	260.60	15.14	8.32		255.70	11.53	14.46	69.89	999.00	-2.80	999.00	-1.70	0.00
20 6 23 12 270.40	20.60		70.24	999.00	265.10	19.26	9.92	70.02	259.10	13.72	13.99	71.32	999.00	-2.02	999.00	-2.30	0.00
20 6 23 13 259.50	23.52	6.69	70.24	999.00	254.60	22.41	8.24	70.02	249.80	16.51	13.93	71.32	999.00	-4.00	999.00	-2.03	0.00
20 6 23 14 271.20	23.22	8.18	71.72	999.00	267.60	20.96	9.70	72.42	269.30	14.83	12.57	73.91	999.00	-0.57	999.00	-0.13	0.00
20 6 23 15 245.50	24.32	11.27	72.65	999.00	243.90	23.03	11.56	73.50	252.50	16.34	14.51	73.11	999.00	-2.79	999.00	1.98	0.00
20 6 23 16 257.40	30.14	6.84	72.65	999.00	255.70	29.01	7.23	73.50	264.50	20.84	11.27	73.11	999.00	-2.85	999.00	-2.20	0.00
20 6 23 17 264.30	29.62	5.84	68.18	999.00	262.30	27.98	7.61	68.66	269.10	19.66	11.82	70.93	999.00	-2.56	999.00	-1.92	0.00
20 6 23 18 279.00	23.41	7.45	67.50	999.00	276.60	22.31	8.00	67.95	282.40	15.40	9.99	69.80	999.00	-2.34	999.00	-1.75	0.00
20 6 23 19 259.90	20.89	8.20	67.50	999.00	257.20	19.87	8.16	67.95	261.30	13.65	11.51	69.80	999.00	-1.68	999.00	-1.26	0.00
20 6 23 20 266.70	18.95	8.66 9	99.00	999.00	264.50	17.85	9.03	999.00	269.30	12.20	12.74	71.03	999.00	-1.44	999.00	-0.82	0.00
20 6 23 21 260.00	16.74	5.97	69.49	999.00	257.30	14.58	7.10		259.20	8.39	11.34	70.68	999.00	-0.91	999.00	-0.27	0.00
20 6 23 22 261.10	18.28			999.00	259.20	16.00	4.52		260.50	8.59	9.33	69.02	999.00	0.00	999.00	0.23	0.00
20 6 23 23 252.90	16.72			999.00	249.70	14.53	3.88		258.00	6.89	9.62	67.45	999.00	0.25	999.00	0.57	0.00
20 6 23 24 248.70	16.36		66.50	999.00	240.90	13.61	7.65		245.00	8.24	9.39	66.25	999.00	-0.25	999.00	-0.25	0.00
20 6 24 1 243.20	14.93		65.19	999.00	239.60	12.38	6.40		247.80	6.98	10.35	65.44	999.00	-0.33	999.00	-0.18	0.00
20 6 24 2 239.40	16.44		64.26	999.00	233.70	13.49	6.16		236.70	8.44	10.75	64.41	999.00	-0.26	999.00	-0.18	0.00
20 6 24 3 251.90	17.27			999.00		14.59	4.64		250.70	7.50	9.48		999.00		999.00	0.00	0.00
	17.56			999.00		14.80	4.14		249.50	8.15		63.32		0.18		-0.09	0.00
20 6 24 5 260.00	14.76			999.00		13.07	5.83		249.60	7.30	9.85		999.00		999.00	-0.35	0.00
20 6 24 6 275.70	13.36			999.00		11.67	4.47		258.80	5.94	10.27		999.00		999.00	-0.43	0.00
20 6 24 7 289.70				999.00		10.89	7.29		268.30	5.27	9.24		999.00		999.00	0.19	0.00
20 6 24 8 300.70				999.00		14.76	11.12		296.10	9.46	16.61		999.00		999.00	-0.98	0.00
20 6 24 9 293.00	11.72			999.00		11.48	8.78		294.80	8.30	15.05		999.00		999.00	-0.30	0.00
20 6 24 10 282.90				999.00		12.30	10.18		280.10	10.20	14.82		999.00		999.00	-2.24	0.00
20 6 24 11 299.20				999.00		12.90	12.48		308.90	10.17	17.47		999.00		999.00	-2.39	0.00
20 6 24 12 302.00	10.34	12.68	65.58	999.00	302.50	10.28	12.37	65.90	310.70	7.69	17.55	68.15	999.00	-2.25	999.00	-2.25	0.00

20	6 24 13		9.80	21.88		999.00		9.56	19.13		308.30	7.15	24.13		999.00		999.00	-2.21	0.00
20	6 24 14	268.60	9.87	15.53	68.46	999.00	268.90	9.55	15.42	68.81	282.70	7.65	20.32	70.86	999.00	-2.26	999.00	-2.05	0.00
20	6 24 15	262.30	11.75	16.18	70.16	999.00	258.00	11.44	13.58	70.54	261.40	8.59	15.84	73.10	999.00	-2.65	999.00	-2.56	0.00
20	6 24 16	255.10	12.34	20.54	71.39	999.00	253.40	11.95	21.76	71.76	256.80	9.23	22.51	73.85	999.00	-2.93	999.00	-2.09	0.00
20	6 24 17	267.80	13.40	13.81	71.95	999.00	268.10	12.99	13.56	72.32	276.30	9.12	17.05	73.65	999.00	-1.74	999.00	-1.33	0.00
20	6 24 18	251.00	17.48	7.17	72.38	999.00	251.10	16.47	8.31	72.89	259.70	12.03	11.67	74.23	999.00	-2.19	999.00	-1.24	0.00
20	6 24 19		17.76	9.07	72.89	999.00	254.70	16.89	9.83	73.45	258.70	12.31	15.28	75.20	999.00	-2.28	999.00	-1.33	0.00
20	6 24 20		17.67	7.25	999.00	999.00	245.10	16.54	7.63	999.00	249.30	11.52	13.07	75.10	999.00	-1.85	999.00	-0.84	0.00
20	6 24 21		13.70	4.56	72.54	999.00	239.40	12.19	5.49		245.20	7.04	9.87	73.90	999.00	-0.88	999.00	-0.30	0.00
	6 24 22		12.32	2.82	71.86	999.00	223.20	10.57	3.21		208.30	3.07		71.23	999.00		999.00		0.00
20													10.71			1.82		1.19	
20	6 24 23	240.70	11.94	0.83	72.11	999.00	233.40	11.03	2.78	72.02	207.20	3.59	8.47	69.45	999.00	3.16	999.00	2.23	0.00
20	6 24 24		11.29	2.26	72.11	999.00	230.00	10.75	1.47		204.60	3.16	9.04	69.45	999.00	3.83	999.00	3.35	0.00
20	6 25 1		14.77	3.16	71.15	999.00	246.80	12.26	4.51		206.30	3.72	11.04	66.33	999.00	5.25	999.00	3.67	0.00
20	6 25 2		20.91	3.11	67.84	999.00	240.90	17.08	4.76		243.10	9.17	9.45	65.06	999.00	1.42	999.00	0.98	0.00
20		244.20	17.36	4.60	66.86	999.00	238.80	13.46	6.90		235.30	6.56	9.74	65.11	999.00	1.38	999.00	0.99	0.00
20	6 25 4	257.90	16.83	3.14	66.18	999.00	253.80	13.39	5.74		239.90	5.66	10.33	63.89	999.00	2.84	999.00	1.62	0.00
20	6 25 5	241.20	11.23	10.03	64.78	999.00	226.60	9.72	9.05		199.70	4.62	11.46	62.25	999.00	2.04	999.00	2.22	0.00
20	6 25 6	246.90	14.81	9.08	63.31	999.00	230.80	12.98	7.00	62.57	215.50	5.13	10.87	60.70	999.00	3.47	999.00	1.56	0.00
20	6 25 7	233.70	12.63	3.88	64.09	999.00	222.60	13.33	2.13	63.08	204.20	5.49	12.14	60.93	999.00	3.00	999.00	2.76	0.00
20	6 25 8	222.50	12.00	4.49	63.43	999.00	216.90	9.79	5.58	62.75	219.60	6.01	12.09	62.91	999.00	-1.12	999.00	-0.39	0.00
20	6 25 9	227.50	9.72	6.11	63.69	999.00	222.50	9.44	6.70	64.12	230.60	7.43	14.48	66.28	999.00	-2.92	999.00	-1.57	0.00
20	6 25 10	240.00	8.75	9.14	66.37	999.00	235.30	8.61	9.09	66.87	240.00	7.44	15.36	69.45	999.00	-3.09	999.00	-1.70	0.00
20	6 25 11	237.60	6.58	9.83	68.52	999.00	237.40	6.49	11.25	69.10	247.60	6.22	21.01	71.65	999.00	-3.05	999.00	-1.67	0.00
20	6 25 12	230.40	8.34	18.16	70.54	999.00	231.00	8.08	16.76	71.13	243.40	6.49	22.28	73.90	999.00	-3.44	999.00	-1.90	0.00
20	6 25 13		12.42	12.19	72.67	999.00	252.10	12.26	14.23	73.30	258.90	9.33	20.79	76.13	999.00	-3.34	999.00	-1.86	0.00
20	6 25 14		16.60	11.22	73.92	999.00	250.40	15.49	13.36		257.50	11.26	17.36	76.50	999.00	-2.73	999.00	-1.49	0.00
20	6 25 15		12.94	7.70	74.49	999.00	257.60	12.29	8.07		263.60	8.75	11.86	76.97	999.00	-2.12	999.00	-1.20	0.01
20	6 25 16		12.09	12.51	75.62	999.00	281.70	11.83	11.76		286.10	8.63	13.75	78.05	999.00	-2.44	999.00	-1.73	0.00
20	6 25 17		13.45	8.37	77.04	999.00	283.10	13.04	8.22		284.60	9.60	13.38	79.70	999.00	-2.49	999.00	-2.12	0.00
20	6 25 18	299.00	12.38	10.94	77.35	999.00	295.80	11.80	10.42		298.70	8.22	13.75	79.88	999.00	-1.99	999.00	-1.52	0.00
20	6 25 19	302.40	10.17	9.99	999.00	999.00	300.30	9.68	11.05	999.00	306.40	7.14	17.26	78.97	999.00	-2.82	999.00	-1.41	0.00
	6 25 20		11.56	8.40	77.12	999.00	266.40	10.46	9.25		275.00	6.49	15.40	79.03	999.00		999.00	-0.92	0.00
20							259.10		5.17		260.60		9.72	78.32	999.00	-1.64 -0.49	999.00		0.00
20			13.38	4.42	77.30	999.00		11.66				6.09						-0.11	
20	6 25 22	258.90	13.67	2.58	76.49	999.00	253.90	12.04	2.97		240.50	5.13	9.60	75.82	999.00	1.18	999.00	0.95	0.00
20	6 25 23		14.53	2.30	76.05	999.00	252.00	13.69	2.99		220.90	4.21	9.36	72.78	999.00	4.28	999.00	3.45	0.00
20	6 25 24		16.23	1.67	75.04	999.00	257.00	14.69	3.49		244.90	5.79	5.82	70.78	999.00	3.53	999.00	3.02	0.00
20	6 26 1		15.24	4.02	74.01	999.00	264.10	14.28	7.63		243.00	5.95	7.15	69.96	999.00	4.20	999.00	2.92	0.00
20	6 26 2		13.17	3.45	73.81	999.00	257.70	11.05	6.27		212.20	4.15	11.06	68.95	999.00	4.97	999.00	2.99	0.00
20	6 26 3		10.52	3.58	72.45	999.00	239.00	9.96	5.36		200.30	3.13	22.54	67.47	999.00	4.71	999.00	3.49	0.00
20	6 26 4	267.40	8.89	3.42	71.63	999.00	252.90	10.04	1.92		208.40	2.78	17.31	66.69	999.00	4.98	999.00	4.57	0.00
20	6 26 5	245.70	7.85	2.91	71.59	999.00	238.60	9.54	5.59	71.14	198.70	3.26	14.03	66.40	999.00	5.09	999.00	4.70	0.00
20	6 26 6	224.60	10.40	1.20	71.77	999.00	224.20	11.95	3.33	71.16	201.20	4.19	8.90	65.94	999.00	6.29	999.00	5.50	0.00
	6 26 7		11.66	1.95	71.12	999.00	231.00	12.42	5.06		206.80	4.28	10.71	65.38	999.00	5.22	999.00	4.13	0.00
20	6 26 8	245.50	11.87	2.26	69.99	999.00	228.80	11.45	3.98	69.10	200.00	4.59	14.01	66.73	999.00	2.28	999.00	2.09	0.00
20	6 26 9	227.30	9.93	5.91	68.03	999.00	225.00	9.27	5.95	67.83	229.20	7.41	10.68	69.79	999.00	-2.96	999.00	-1.35	0.00
20	6 26 10	222.60	8.94	4.59	70.42	999.00	224.40	8.42	5.76	70.93	242.10	7.07	10.25	73.55	999.00	-3.19	999.00	-1.64	0.00
	6 26 11		6.89	10.12		999.00		6.32	11.93	74.75	220.90	5.55	19.46	77.20	999.00		999.00	-1.27	0.00
	6 26 12		7.14	11.84		999.00		6.72	13.85		198.80	5.71	22.80		999.00		999.00	-1.16	0.00
	6 26 13		10.42	10.46		999.00		9.92	12.02		218.80	7.17	18.00		999.00		999.00	-1.71	0.00
	6 26 14		16.13	11.67		999.00		15.12	12.66		243.10	11.39	14.90		999.00		999.00	-1.91	0.00
	6 26 15		18.27	10.31		999.00		17.17	10.88		244.20	11.68	14.22		999.00		999.00	-1.25	0.00
	6 26 16		10.86	4.89		999.00		10.09	6.32		244.70		10.49		999.00		999.00	-0.31	0.00
20	0 20 10	233.00	10.00	1.00	, , , , ,	555.00	202.70	10.00	0.52	, , , 10	211.70	0.00	10.10	, , , , , ,	222.00	0.77	222.00	0.01	J. 00

20	6 26 17		3.31	18.29	77.70	999.00	258.10	3.06	17.67		259.10	2.86	37.93		999.00	-3.06	999.00	-0.93	0.00
20	6 26 18	183.00	12.74	12.85	78.60	999.00	180.60	12.14	14.40		198.40	7.19	21.47	80.75	999.00	-1.96	999.00	-0.54	0.00
20	6 26 19	205.70	13.22	5.82	78.60	999.00	203.60	12.14	9.09	79.05	213.70	7.87	15.43	80.75	999.00	-2.01	999.00	-1.27	0.00
20	6 26 20	200.60	11.68	5.47	75.37	999.00	197.50	10.63	6.56	75.88	210.00	6.37	16.29	77.53	999.00	-1.86	999.00	-1.14	0.00
20	6 26 21	182.70	13.31	3.29	75.43	999.00	178.50	12.33	4.18	75.86	186.90	5.24	16.88	76.72	999.00	-1.04	999.00	-0.94	0.00
20	6 26 22		15.24	4.50	74.44	999.00	177.70	13.36	6.32	74.78	191.50	6.60	19.23	75.28	999.00	-1.04	999.00	-0.64	0.00
20	6 26 23		17.55	3.68	74.05	999.00	179.70	14.99	5.34		191.30	7.45	14.50	74.70	999.00	-0.60	999.00	-0.48	0.00
20	6 26 24		21.63	4.63	74.53	999.00	191.10	18.84	5.63		199.10	8.07	17.88	75.00	999.00	-0.43	999.00	-0.40	0.00
20	6 27 1		24.82	4.73	76.55	999.00	196.60	21.99	5.89		203.60	9.94	16.35	77.08	999.00	-0.57	999.00	-0.36	0.16
		249.30			68.23	999.00	248.20		6.87		255.60	12.15	10.33		999.00	-0.75	999.00		0.04
20			22.83	6.13				20.48						69.01				-0.47	
20	6 27 3		20.09	6.60	67.24	999.00	241.10	17.28	7.65		248.90	10.23	11.02	68.13	999.00	-0.92	999.00	-1.63	0.27
20	6 27 4		20.74	4.98	67.03	999.00	232.80	19.02	6.37		239.50	12.13	10.62	67.93	999.00	-0.95	999.00	-1.36	0.22
20	6 27 5		23.17	5.81	67.24	999.00	236.70	20.77	6.81		245.00	13.54	11.15	68.22	999.00	-0.85	999.00	-1.51	0.00
20	6 27 6	243.50	17.82	6.14	68.02	999.00	242.50	15.42	7.00		247.00	8.69	11.70	68.99	999.00	-1.08	999.00	-1.68	0.00
20	6 27 7		19.70	5.29	68.02	999.00	246.00	17.17	6.63		252.50	10.56	10.32	68.99	999.00	-1.10	999.00	-1.85	0.00
20	6 27 8		16.62	5.36	69.13	999.00	236.20	15.57	5.64		241.90	10.58	9.76	70.19	999.00	-1.08	999.00	-2.40	0.00
20	6 27 9		13.99	6.38	70.14	999.00	239.60	12.95	6.83		246.40	8.76	11.71	71.60	999.00	-1.48	999.00	-2.69	0.00
20	6 27 10	230.60	15.01	4.85	71.10	999.00	227.80	14.22	4.95	71.52	234.50	9.87	10.15	72.67	999.00	-1.74	999.00	-3.14	0.00
20	6 27 11	233.60	14.27	6.30	72.10	999.00	231.30	13.56	6.13	72.32	239.60	9.72	12.51	74.07	999.00	-2.37	999.00	-2.96	0.00
20	6 27 12	238.00	18.24	5.39	73.43	999.00	235.90	17.45	5.47	73.94	242.10	12.61	10.90	75.63	999.00	-2.23	999.00	-2.75	0.00
20	6 27 13	233.50	15.69	5.44	74.06	999.00	231.50	15.35	6.12	74.56	238.10	11.02	11.11	76.03	999.00	-2.17	999.00	-2.30	0.00
20	6 27 14	228.90	17.09	4.48	74.41	999.00	227.50	16.79	4.55	74.92	235.50	11.81	10.61	76.68	999.00	-2.44	999.00	-2.52	0.00
20	6 27 15	233.90	17.83	6.81	75.34	999.00	231.50	17.21	7.84	75.90	237.20	12.83	13.16	78.22	999.00	-3.12	999.00	-2.77	0.00
20	6 27 16	239.40	16.91	8.47	77.27	999.00	236.70	16.58	8.57	77.82	236.80	12.13	10.64	80.18	999.00	-2.50	999.00	-2.24	0.00
20	6 27 17		18.38	7.73	78.57	999.00	237.80	17.83	8.34		245.70	12.24	13.17	81.38	999.00	-2.76	999.00	-1.61	0.00
	6 27 18		20.57	5.87	79.59	999.00	223.90	19.90	6.94		233.60	13.53	11.50	82.15	999.00	-2.52	999.00	-1.60	0.00
20			20.45	3.67	999.00	999.00	227.90	19.88	3.84	999.00	237.00	14.09	9.67	82.50	999.00	-2.19	999.00	-1.15	0.00
20	6 27 20		19.76	4.54	80.68	999.00	231.50	18.85	5.26		241.80	12.38	10.49	82.63	999.00	-1.70	999.00	-0.69	0.00
20	6 27 21		16.82	6.57	79.81	999.00	227.40	15.73	6.51	80.25		10.18	11.22	81.13	999.00	-1.03	999.00	-0.45	0.00
20	6 27 22		9.47	22.56	77.11	999.00	188.00	7.64	42.63		156.00	4.48	73.00	78.15	999.00	-1.06	999.00	-0.61	0.00
20	6 27 23		19.78	20.41	72.75	999.00	319.50	19.77	19.99		329.50	13.99	24.20	72.69	999.00	0.26	999.00	0.48	0.00
	6 27 24		20.91	5.63	71.09	999.00	238.20	19.77	4.69		247.70	10.06	9.93	69.18	999.00	3.22	999.00	1.05	0.00
20				12.29			271.40	18.51	10.58		266.70	9.72		70.12	999.00	4.86	999.00	1.03	0.00
20			20.18		73.27	999.00							14.13						
20	6 28 2		12.74	7.86	73.18	999.00	239.30	9.13	8.98	71.60	222.90	4.34	18.90	69.68	999.00	2.52	999.00	-0.04	0.00
20		244.30	17.88	2.40	72.59	999.00	242.30	14.83	3.26		240.50	6.48	8.77	69.25	999.00	2.50	999.00	1.95	0.00
20	6 28 4		14.68	4.23	70.32	999.00	230.00	11.56	4.95		219.60	4.36	13.09	69.12	999.00	1.31	999.00	0.35	0.00
20	6 28 5	257.70	9.44	8.08	69.81	999.00	246.80	7.98	8.17	69.84		4.73	10.83	69.56	999.00	-0.24	999.00	-0.61	0.00
20	6 28 6	283.80	7.11	13.65	69.34	999.00	276.10	6.47	12.30	69.58	263.60	2.48	20.93	69.64	999.00	-0.44	999.00	-0.41	0.00
20	6 28 7	56.90	9.27	5.01	69.16	999.00	54.50	9.07	6.39	69.54	67.07	5.13	11.64	69.32	999.00	0.38	999.00	-0.74	0.00
20	6 28 8	73.20	10.01	4.02	70.13	999.00	70.10	9.98	5.08	70.52	80.00	5.88	15.79	70.30	999.00	-0.03	999.00	-0.81	0.00
20	6 28 9	69.45	10.45	4.40	70.17	999.00	66.97	10.12	6.84	70.64	77.80	6.85	12.72	72.28	999.00	-2.30	999.00	-1.17	0.00
20	6 28 10	83.60	9.95	8.74	70.16	999.00	78.50	9.71	10.46	70.76	85.50	7.30	18.68	72.77	999.00	-2.63	999.00	-1.44	0.00
20	6 28 11	95.30	9.60	8.87			93.90	9.59	8.01	999.00	110.20	6.67	17.04		999.00		999.00	-1.71	0.00
20	6 28 12	78.70	8.11	8.00	71.26	999.00	75.10	8.08	8.72	71.90	72.00	7.03	14.70	74.05	999.00	-2.88	999.00	-1.52	0.00
20	6 28 13	71.00	7.36	8.49	71.68	999.00	66.53	7.48	7.46	72.29	78.30	6.46	16.93	74.73	999.00	-3.22	999.00	-1.64	0.00
20	6 28 14	61.72	7.60	9.57	72.48	999.00	55.93	7.52	10.23	73.14	63.25	7.99	15.53	75.60	999.00	-3.21	999.00	-1.75	0.00
20	6 28 15	39.25	7.87	10.38	72.48	999.00	40.69	7.53	9.44	73.14	44.22	8.22	15.84	75.60	999.00	-3.02	999.00	-1.20	0.00
20	6 28 16	36.44	7.01	11.80	999.00	999.00	37.06	6.46	12.12	999.00	42.31	7.49	16.24	77.07	999.00		999.00	-0.70	0.00
20	6 28 17	25.28	8.30	11.09	999.00		27.49	6.94	10.81	999.00	30.48	8.09	10.88		999.00		999.00	-0.22	0.00
	6 28 18	60.80	6.80	7.55		999.00	58.56	6.66	9.60	77.27	66.62	5.91	17.84		999.00		999.00	-1.03	0.00
	6 28 19	81.00	8.79	6.69		999.00	78.30	8.41	6.53	77.16	91.30	6.25	14.00		999.00		999.00	-1.26	0.00
	6 28 20	93.70	10.48	4.21		999.00	93.50	9.72	5.49		102.10	5.30	13.36		999.00		999.00	-0.77	0.00
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20	6 28 21	97.70	9.09	5.42	75.88	999.00	98.40	8.33	6.01	76.14	105.70	3.88	13.90	77.02	999.00	-0.84	999.00	-0.31	0.00
20	6 28 22	117.10	8.51	2.93	75.48	999.00	112.10	7.03	4.13	75.57	132.70	2.00	28.69	75.55	999.00	0.34	999.00	0.09	0.00
20	6 28 23	118.00	7.96	2.50	74.85	999.00	116.50	7.12	2.32	74.80	171.70	1.84	22.89	74.43	999.00	0.94	999.00	0.30	0.00
20	6 28 24	123.90	6.27	3.45	74.98	999.00	129.10	6.31	2.67	74.76	142.90	1.53	31.60	73.32	999.00	1.59	999.00	1.13	0.00
20	6 29 1		4.80	3.55	74.48	999.00	144.30	3.73	8.22		339.30	1.05	19.27	71.93	999.00	3.36	999.00	2.01	0.00
20	6 29 2		2.81	16.24	74.16		152.10	2.54	18.76		294.20	1.30	38.24	71.95	999.00	2.26	999.00	1.56	0.00
20		132.80	3.02	11.95	74.20	999.00	154.20	2.91	8.47		224.10	2.12	6.83	71.27	999.00	2.77	999.00	1.92	0.00
20		162.10	4.88	10.24	74.16	999.00	173.80	5.81	11.26	73.94		2.87	10.05	69.87	999.00	4.31	999.00	3.49	0.00
	6 29 5			7.10		999.00	126.20	2.33	13.24	73.64	29.44				999.00	3.29	999.00		0.00
20			3.32		74.00							1.88	40.00	69.90				3.03	
20	6 29 6	31.93	2.99	11.46	72.24	999.00	23.63	2.28	14.04	72.27		1.51	6.30	70.24	999.00	1.58	999.00	1.66	0.00
20	6 29 7	56.33	6.24	3.96	71.65	999.00	54.91	6.70	4.63	72.08	72.40	2.26	37.29	70.82	999.00	-0.27	999.00	0.14	0.00
20	6 29 8	107.30	2.30	44.66	71.65	999.00	154.90	1.97	66.48	72.02	222.60	2.64	33.96	73.00	999.00	-1.47	999.00	-0.40	0.00
20	6 29 9	102.60	3.01	27.93	72.11	999.00	92.20	3.01	34.68	72.68	84.40	2.61	46.33	74.70	999.00	-3.06	999.00	-0.94	0.00
20	6 29 10	91.50	5.10	12.63	72.85	999.00	91.90	4.99	13.44	73.48	107.20	3.97	16.86	76.07	999.00	-2.79	999.00	-1.08	0.00
20	6 29 11	51.17	4.98	15.11	73.40	999.00	44.73	4.99	14.30	74.10	44.30	5.61	15.45	76.38	999.00	-3.22	999.00	-0.92	0.00
20	6 29 12	67.84	5.19	12.10	73.46	999.00	64.29	5.57	13.25	74.05	68.69	5.18	24.27	76.07	999.00	-2.92	999.00	-0.81	0.00
20	6 29 13	70.50	5.24	15.41	74.46	999.00	64.13	5.04	19.36	75.22	40.13	4.59	28.31	77.73	999.00	-3.81	999.00	-0.74	0.00
20	6 29 14	47.83	5.20	13.19	75.99	999.00	48.90	5.55	15.25	76.64	46.28	5.88	17.76	79.43	999.00	-3.67	999.00	-0.93	0.00
20		64.55	7.51	7.91	76.10	999.00	62.73	7.81	7.08	76.65	78.20	7.03	10.36	79.05	999.00	-2.78	999.00	-1.58	0.00
	6 29 16	65.54	6.69	11.28	76.44	999.00	66.17	6.74	12.47	77.03	70.60	5.80	24.36	79.30	999.00	-2.90	999.00	-1.39	0.00
	6 29 17	72.00	4.80	18.09	77.60	999.00	79.00	5.02	16.12	78.22	95.30	4.03	29.38	80.52	999.00	-2.97	999.00	-1.18	0.00
	6 29 18	55.65	6.54	10.80	77.28	999.00	58.17	7.37	9.63	77.82	74.80	6.22	14.81	79.78	999.00	-2.13	999.00	-1.29	0.00
	6 29 19	63.92	7.40	9.31	77.19	999.00	62.20	7.13	11.79	77.81	70.30	6.10	18.98	79.65	999.00	-2.52	999.00	-1.15	0.00
	6 29 20	45.34	10.46	4.13	77.24	999.00	48.21	9.76	4.87	77.71	61.72	7.69	11.22	79.22	999.00	-1.35	999.00	-0.80	0.00
	6 29 21	56.89			77.63					77.39			9.19	78.13	999.00		999.00		0.00
			11.74	1.54		999.00	56.15	10.86	2.44		70.40	6.60				0.31		-0.20	
	6 29 22	75.20	8.41	1.93	76.66	999.00	75.90	7.58	2.90	76.26	99.60	3.47	7.01	76.05	999.00	1.07	999.00	0.28	0.00
20		78.60	8.35	2.77	76.07	999.00	75.00	7.88	3.30	75.87	85.20	3.94	7.30	75.30	999.00	0.37	999.00	0.69	0.00
20	6 29 24	94.50	10.57	4.64	75.40	999.00	93.20	9.79	5.45	75.59	105.40	3.92	10.39	75.00	999.00	0.39	999.00	0.43	0.00
20	6 30 1		11.35	5.83	74.91	999.00	111.30	9.57	7.77		131.40	3.73	19.67	74.65	999.00	0.30	999.00	0.22	0.00
20		103.60	8.40	4.39	73.75	999.00	116.20	6.63	9.62		185.70	1.95	20.55	71.10	999.00	3.95	999.00	1.98	0.00
20		117.00	4.53	32.72	74.50	999.00	154.20	4.49	60.89		240.70	4.92	11.42	69.23	999.00	4.35	999.00	5.02	0.00
20	6 30 4	51.82	2.29	39.40	72.34	999.00	265.20	2.40	36.51	71.28	288.50	2.13	28.34	67.19	999.00	4.70	999.00	3.28	0.00
20	6 30 5	332.80	2.63	43.84	72.02	999.00	293.40	3.61	54.45	71.44	45.72	2.54	101.00	67.00	999.00	4.50	999.00	3.83	0.00
20	6 30 6	52.28	4.00	11.03	72.10	999.00	13.72	2.66	37.30	71.58	183.20	2.11	27.15	67.36	999.00	5.06	999.00	3.79	0.00
20	6 30 7	4.13	2.73	17.75	72.61	999.00	328.50	2.66	13.35	72.12	235.80	3.14	8.78	66.93	999.00	5.38	999.00	5.36	0.00
20	6 30 8	338.80	8.58	11.59	72.04	999.00	320.60	8.66	12.22	71.26	312.80	2.09	19.96	68.60	999.00	2.00	999.00	1.60	0.00
20	6 30 9	356.50	6.60	14.81	71.99	999.00	350.30	6.41	16.01	72.24	353.40	5.79	17.57	73.75	999.00	-3.55	999.00	-1.54	0.00
20	6 30 10	28.05	7.58	9.60	999.00	999.00	27.90	6.53	11.03	999.00	28.30	7.40	12.58	76.07	999.00	-2.93	999.00	0.17	0.00
20	6 30 11	28.84	5.28	12.79	73.51	999.00	29.37	4.96	13.74	74.17	27.94	5.72	17.69	76.63	999.00	-3.03	999.00	0.10	0.00
	6 30 12	37.54	7.38	10.77	74.80	999.00	39.90	6.61	11.05	75.31	43.25	7.52	16.42	77.50	999.00	-2.96	999.00	-0.53	0.00
	6 30 13	44.65	6.15	11.62	75.09	999.00	42.61	5.93	10.79	75.75	39.16	6.85	22.04	78.50	999.00	-3.27	999.00	-0.44	0.00
20	6 30 14	36.52	6.93	11.83	75.99	999.00	39.26	6.33	11.76	76.55	45.55	6.90	17.12	79.15	999.00	-3.26	999.00	-1.12	0.00
	6 30 15	37.55	7.97	10.07		999.00	36.95	7.13	10.51	77.08	42.34	7.94	15.16		999.00		999.00	-1.03	0.00
	6 30 16		9.58	8.26		999.00	56.03	10.26	8.25	76.87	67.85	8.57	16.18		999.00		999.00	-1.60	0.00
	6 30 17	57.12	12.91	7.31		999.00	53.64	12.10	8.59	76.78	65.20	10.55	13.94		999.00		999.00	-1.56	0.00
	6 30 18	78.70	17.19	6.62		999.00	75.80	16.67	7.95	75.64	87.20	10.27	17.62		999.00		999.00	-1.79	0.00
	6 30 19	82.90	11.51	7.09		999.00	79.50	10.69	9.23	74.23	85.80	6.61	18.71		999.00		999.00	-1.59	0.00
	6 30 20	75.60	18.39	4.19		999.00	73.40	17.20	6.34	74.66	83.00	9.58	15.46		999.00		999.00	-1.37	0.00
	6 30 21	92.50	13.05	3.75	73.88		87.70	12.29	4.02	74.30	92.30	6.36	13.85		999.00		999.00	-0.48	0.00
	6 30 22	86.90	13.72	3.71	74.04		83.80	12.37	4.19	74.34	92.50	5.69	12.49		999.00		999.00	0.00	0.00
	6 30 23	86.60	16.28	4.18		999.00	84.20	14.80	4.87	74.18	95.30	6.41	15.09		999.00		999.00	-0.16	0.00
20	6 30 24	87.30	17.74	4.49	74.21	999.00	84.50	16.06	4.90	74.50	91.40	7.71	14.14	74.55	999.00	-0.36	999.00	-0.06	0.00

00 5 1 1	0.00		01 54 40	000 00	0.4.40	15.00		54 00	101 00	6 5 6	16.05	- A O -	00000	0 60	00000	0 01	0 00
20 7 1 1				999.00	94.40	15.23	6.44		101.00	6.56	16.85		999.00		999.00	-0.21	0.00
20 7 1 2			00 73.89	999.00	99.10	12.08	5.84		111.80	5.10	14.55	74.45	999.00	-0.46	999.00	-0.12	0.00
20 7 1 3			60 73.35	999.00	88.00	12.09	6.14	73.70	97.40	4.77	15.26	73.72	999.00	-0.29	999.00	-0.05	0.00
20 7 1 4			59 73.35	999.00	84.20	14.16	4.20	73.70	88.80	6.75	14.64	73.72	999.00	-0.50	999.00	-0.10	0.00
20 7 1 5			56 71.94	999.00	77.90	13.92	3.00	72.32	85.00	6.55	14.13	72.40	999.00	-0.51	999.00	-0.11	0.00
20 7 1 6			80 71.60	999.00	84.40	12.99	4.43	72.01	91.00	6.41	14.74	72.17	999.00	-0.62	999.00	-0.22	0.00
20 7 1 7			86 71.39	999.00	87.10	11.34	5.50	71.82	100.10	4.84	15.08	72.13	999.00	-1.02	999.00	-0.28	0.00
20 7 1 8			35 71.13	999.00	82.80	10.41	4.95	71.62	95.50	5.74	15.31	72.80	999.00	-1.74	999.00	-1.04	0.00
20 7 1 9			13 71.34	999.00	77.70	9.77	8.99	71.93	84.60	6.42	16.74	74.02	999.00	-2.99	999.00	-1.54	0.00
20 7 1 10		9.60 10.			79.50	9.26	9.72	71.93	93.60	6.37	20.75	74.02	999.00	-3.29	999.00	-1.92	0.00
20 7 1 11			53 72.18	999.00	70.40	11.07	5.93	72.76	76.00	8.29	14.51	75.05	999.00	-2.94	999.00	-1.93	0.00
20 7 1 12	77.40 1	10.79 7.	40 72.74	999.00	71.20	10.83	8.52	73.26	75.80	9.31	13.50	75.55	999.00	-2.29	999.00	-1.59	0.00
20 7 1 13			44 73.75	999.00	72.00	10.74	8.49	74.33	84.50	8.24	15.14	76.55	999.00	-2.81	999.00	-1.60	0.00
20 7 1 14	72.30	9.02 8.	65 74.40	999.00	72.60	8.50	11.65	75.07	85.40	7.23	20.10	77.47	999.00	-3.21	999.00	-1.79	0.00
20 7 1 15	78.40	8.72 8.	18 75.28	999.00	73.10	8.24	10.22	75.97	78.30	7.27	14.62	78.38	999.00	-3.14	999.00	-1.90	0.00
20 7 1 16	68.74 1	L1.79 7.	01 75.28	999.00	66.63	11.74	7.44	75.97	73.20	9.75	13.32	78.38	999.00	-2.98	999.00	-1.84	0.00
20 7 1 17	76.40 1	L1.13 6.	62 75.85	999.00	73.90	10.99	8.01	76.41	80.50	8.16	16.28	78.65	999.00	-2.88	999.00	-1.77	0.00
20 7 1 18		9.24 7.		999.00	82.40	9.52	6.64	76.97	94.80	6.37	16.97	79.07	999.00	-2.49	999.00	-1.58	0.00
20 7 1 19	90.90	9.23 9.	18 76.69	999.00	85.90	8.59	8.21	77.22	92.80	6.05	16.73	79.00	999.00	-2.39	999.00	-1.22	0.00
	101.60		63 76.63		96.30	9.21	7.02		100.60	4.90	15.76	78.95	999.00	-2.08	999.00	-0.91	0.00
20 7 1 21			78 76.71	999.00	92.00	10.93	3.74	77.02	92.70	4.95	11.73	77.85	999.00	-0.63	999.00	-0.17	0.00
20 7 1 22		7.89 7.	05 999.00	999.00	97.60	6.74	6.97		102.40	2.69	10.66	76.40	999.00	-0.03	999.00	-0.04	0.00
20 7 1 23			95 75.89	999.00	116.30	4.37	9.39		194.50	2.03	10.02	75.65	999.00	0.97	999.00	0.48	0.00
20 7 1 24			77 75.62	999.00	76.40	4.31	3.17	75.87	41.71	1.53	31.42	74.43	999.00	0.76	999.00	0.80	0.00
20 7 2 1	21.75	1.76 19.	64 75.32	999.00	334.40	2.05	12.19		314.50	2.34	12.23	74.00	999.00	2.31	999.00	1.33	0.00
20 7 2 2		4.79 11.		999.00	355.50	5.37	11.35		337.30	3.69	9.91	73.75	999.00	0.96	999.00	1.03	0.00
			82 74.95	999.00	352.90	8.14	8.73		328.00	5.10	9.78	74.95	999.00	-0.06	999.00	-0.56	0.00
			48 74.46	999.00	353.40	7.29	8.81		351.30	3.94	15.29	74.72	999.00	-0.44	999.00	-0.60	0.00
			72 74.90	999.00	349.80	6.84	9.95		334.80	2.62	28.77	74.80	999.00	0.20	999.00	0.12	0.00
			27 74.53	999.00	336.80	11.37	2.64		339.40	5.82	8.58	74.55	999.00	-0.17	999.00	0.29	0.00
			37 74.32	999.00	332.50	10.58	3.83		336.30	4.91	11.70	74.88	999.00	-0.36	999.00	0.10	0.00
			05 74.25	999.00	352.70	9.03	7.33		359.10	6.71	9.43	76.05	999.00	-1.91	999.00	-0.98	0.00
20 7 2 9	8.98	8.54 14.		999.00	6.29	8.09	13.71	75.14	11.21	7.01	18.89	77.43	999.00	-3.01	999.00	-0.45	0.00
20 7 2 10		7.68 13.		999.00	5.69	7.33	13.07	75.61	13.40	6.68	21.39	78.35	999.00	-3.38	999.00	-0.41	0.00
20 7 2 11	27.66	7.46 11.		999.00	30.72	6.52	12.39	76.82	41.64	6.56	19.60	79.07	999.00	-2.78	999.00	-0.06	0.00
20 7 2 12			42 76.66		61.62	7.70	10.11	77.20	68.30	6.58	18.25	79.38	999.00	-2.74	999.00	-0.85	0.00
20 7 2 13	85.40		40 76.77		82.70	8.21	7.79	77.35	93.40	6.14	18.39	79.55	999.00	-2.89	999.00	-1.75	0.00
20 7 2 14			65 77.78	999.00	90.80	7.71	9.98		107.00	6.58	15.61	80.72	999.00	-2.87	999.00	-1.77	0.00
20 7 2 15	92.00	6.24 11.		999.00	93.30	6.43	12.86		115.20	5.13	20.83	80.72	999.00	-3.32	999.00	-1.84	0.00
20 7 2 16	83.90	6.34 10.		999.00	89.40	6.61	10.93		107.20	5.14	18.65	83.05	999.00	-3.00	999.00	-1.48	0.00
20 7 2 17	83.40		46 80.83	999.00	82.00	5.59	8.55		105.30	4.52	15.17	83.57	999.00	-2.32	999.00	-1.21	0.00
	106.90	4.25 10.		999.00	97.90	4.51	9.35	999.00	95.70	4.05	14.60	84.00	999.00	-2.44	999.00	-1.17	0.00
20 7 2 19		2.91 12.		999.00	74.30	4.06	10.98		101.50	4.10	14.23		999.00		999.00	-0.66	0.00
		4.01 6.		999.00	79.60	4.86	2.81		112.00	2.96			999.00		999.00	1.32	0.00
20 7 2 21				999.00	76.70	4.61	3.55		101.10	4.36	4.75		999.00		999.00	1.45	0.00
20 7 2 22				999.00	82.80	3.54	5.66		149.50	2.22	13.86		999.00		999.00	1.34	0.00
20 7 2 23				999.00		3.84	3.79		156.90	2.69	6.55		999.00		999.00	2.35	0.00
20 7 2 24				999.00		4.76	3.22		207.60	1.58	76.40		999.00		999.00	2.43	0.00
20 7 3 1				999.00		4.46	1.83		207.60	2.39	11.03		999.00		999.00	4.84	0.00
20 7 3 2				999.00		7.49	2.65		203.60	3.09	9.51		999.00		999.00	4.75	0.00
20 7 3 3				999.00		8.98	1.70		206.90	3.51	9.52		999.00		999.00	6.29	0.00
20 7 3 4	ZZ4.5U]	10.29 2.	20 80.76	999.00	ZZ4.UU	10.79	1.37	19.14	214.70	4.14	9.67	13.50	999.00	1.49	999.00	6.12	0.00

00 5 040 00	15 50 0 55	TO 46 000 00 04T 00	1.4.40	TT 01 000 10	F F0 10 10	50.00.00.00	5 45 000 00	0.00
20 7 3 5 248.90	15.78 3.75		14.40 4.83	77.91 229.40	5.50 13.10	72.90 999.00	5.47 999.00	2.77 0.00
20 7 3 6 246.20	13.50 2.12		13.37 2.11	79.44 214.90	4.26 11.22	71.82 999.00	7.99 999.00	7.97 0.00
20 7 3 7 259.70	9.96 1.69		11.00 3.58	76.79 204.40	3.81 15.00	71.35 999.00	5.69 999.00	4.36 0.00
20 7 3 8 282.10	10.84 3.49		9.32 6.62	74.78 242.70	4.82 14.79	72.22 999.00	1.68 999.00	1.90 0.00
20 7 3 9 285.50	6.62 10.15	73.70 999.00 277.40	5.85 10.81	73.53 269.60	4.79 16.71	75.32 999.00	-2.59 999.00	-1.51 0.00
20 7 3 10 295.50	4.70 18.70		4.57 18.53	76.70 310.40	3.76 17.51	79.18 999.00	-2.97 999.00	-2.38 0.00
20 7 3 11 316.80	5.66 13.93		6.31 10.36	78.77 339.90	6.29 11.56	81.45 999.00	-3.26 999.00	-0.56 0.00
20 7 3 12 318.70	8.77 8.33		8.91 8.73	78.36 350.30	8.51 8.46	81.40 999.00	-3.36 999.00	-1.45 0.00
20 7 3 13 320.20	7.36 7.82		7.45 7.87	79.44 340.80	7.30 13.20	82.42 999.00	-3.37 999.00	-0.40 0.00
20 7 3 14 313.80	7.13 12.48		7.11 15.00	81.89 321.70	5.99 19.64	85.35 999.00	-3.96 999.00	-1.98 0.00
20 7 3 15 328.60	6.80 12.43		6.17 17.10	83.91 354.90	4.78 19.29	87.35 999.00	-3.99 999.00	-0.46 0.00
20 7 3 16 320.10	6.70 19.02		6.48 19.84	85.93 335.20	5.72 25.62	89.57 999.00	-3.93 999.00	-1.44 0.00
20 7 3 17 303.30	5.93 13.00		5.65 11.95	85.93 303.70	4.59 20.54	89.57 999.00	-2.99 999.00	-2.38 0.00
20 7 3 18 356.50	5.56 11.82	86.80 999.00 354.20	5.50 12.72	87.42 4.32	5.08 11.64	90.58 999.00	-3.73 999.00	-0.15 0.00
20 7 3 19 16.60	3.48 26.79		3.35 25.89	87.61 33.05	3.21 33.72	89.18 999.00	-1.78 999.00	-0.25 0.00
20 7 3 20 19.04	3.39 13.32		2.71 12.90	86.87 91.40	2.03 12.43	87.18 999.00	-0.56 999.00	0.54 0.00
20 7 3 21 8.24	5.74 11.10		5.16 13.29	84.44 7.50	4.08 14.40	84.92 999.00	-0.65 999.00	-0.31 0.00
20 7 3 22 26.39	2.61 20.41	83.16 999.00 356.10	1.85 13.62	82.90 85.50	1.98 11.29	82.77 999.00	1.02 999.00	-0.13 0.00
20 7 3 23 14.22	3.71 7.73		2.59 12.73	82.53 191.90	1.40 70.40	81.20 999.00	1.68 999.00	0.52 0.00
20 7 3 24 334.90	5.22 13.46		5.42 10.88	80.83 327.70	4.50 14.54	80.20 999.00	-0.22 999.00	0.46 0.00
20 7 4 1 65.91	6.28 6.10		4.84 8.33	80.59 189.10	1.82 55.54	80.42 999.00	0.08 999.00	0.17 0.00
20 7 4 2 61.84	10.33 2.98		9.87 3.57	80.33 67.59	5.53 8.66	80.10 999.00	-0.09 999.00	-0.09 0.00
20 7 4 3 38.53	8.03 5.52		6.82 6.01	78.89 52.44	6.06 10.45	79.63 999.00	-1.32 999.00	-0.94 0.00
20 7 4 4 55.34	10.24 4.45		10.61 4.22	77.57 67.43	6.87 8.93	78.27 999.00	-1.00 999.00	-0.70 0.00
20 7 4 5 33.41	10.30 6.36		8.49 7.89	76.55 41.28	7.76 12.88	77.25 999.00	-1.29 999.00	-0.89 0.00
20 7 4 6 35.76	10.61 8.17	75.21 999.00 34.65	8.91 9.03	75.70 40.89	8.20 15.37	76.68 999.00	-1.43 999.00	-1.13 0.00
20 7 4 7 45.53	10.63 6.01	75.21 999.00 42.71	9.17 6.66	75.70 54.80	6.43 12.82	76.68 999.00	-1.34 999.00	-0.84 0.00
20 7 4 8 42.63	9.94 8.85		8.56 8.59	75.08 46.10	7.86 12.48	76.40 999.00	-2.00 999.00	-0.87 0.00
20 7 4 9 41.31	11.94 6.47		9.96 6.53	75.24 50.30	9.68 12.72	77.35 999.00	-2.86 999.00	-0.82 0.00
20 7 4 10 54.44	9.43 7.54		9.26 9.12	75.60 52.24	9.14 11.53	78.00 999.00	-2.97 999.00	-0.92 0.00
20 7 4 11 63.37	7.52 9.26		7.65 10.84	76.26 60.45	6.65 18.31	78.40 999.00	-2.80 999.00	-1.03 0.00
20 7 4 12 51.22	6.06 13.58		6.00 14.73	77.31 44.06	7.01 16.49	79.72 999.00	-3.40 999.00	-1.00 0.00
20 7 4 13 48.71	7.77 9.56		7.27 8.06	78.21 56.17	7.07 13.37	80.73 999.00	-3.11 999.00	-0.67 0.00
20 7 4 14 49.27	7.07 10.72		6.63 10.33	78.76 45.81	7.22 14.38	81.35 999.00	-3.28 999.00	-0.83 0.00
20 7 4 15 75.70	6.01 14.65		6.03 14.32	80.07 75.00	5.03 23.84	82.70 999.00	-3.51 999.00	-1.39 0.00
20 7 4 16 64.89	5.61 12.96		6.02 13.31	80.07 88.50	4.57 23.40	82.70 999.00	-2.77 999.00	-1.31 0.00
20 7 4 17 65.22	5.81 9.67	81.10 999.00 53.16	5.56 9.82	81.81 47.25	5.96 12.23	84.52 999.00	-3.55 999.00	-0.82 0.00
20 7 4 18 59.35	6.89 10.70		6.72 11.65	81.54 53.33	6.49 13.24	83.72 999.00	-2.69 999.00	-0.55 0.00
20 7 4 19 78.00	9.46 6.36		8.88 8.01	81.54 85.00	6.10 17.73	83.72 999.00	-2.26 999.00	-1.20 0.00
20 7 4 20 89.60	10.17 3.29		9.23 4.06	80.53 94.50	5.24 14.47	81.92 999.00	-1.73 999.00	-0.49 0.00
20 7 4 21 100.30	10.62 3.94		9.75 4.93	79.71 97.70	4.23 12.74	80.32 999.00	-0.45 999.00	-0.17 0.00
20 7 4 22 81.20	9.43 4.27		9.08 3.83	79.65 80.90	3.40 11.95	79.15 999.00	0.31 999.00	0.37 0.00
20 7 4 23 132.30	6.38 3.87		5.93 3.17	78.90 167.60	2.52 8.10	77.73 999.00	2.80 999.00	1.74 0.00
20 7 4 24 152.10	5.90 6.65		5.35 9.67	79.19 213.10	1.83 26.39	75.75 999.00	2.82 999.00	3.17 0.00
20 7 5 1 159.90	6.91 3.32		7.20 2.72	78.88 157.10	2.27 26.26	74.80 999.00	5.55 999.00	4.12 0.00
20 7 5 2 123.40	6.23 3.79		6.07 2.68	78.88 204.30	1.19 75.30	74.80 999.00	6.78 999.00	6.13 0.00
20 7 5 3 79.90	4.88 5.79		4.54 3.94	77.62 301.30	0.92 10.86	72.90 999.00	3.50 999.00	3.84 0.00
20 7 5 4 10.07	2.71 12.86		2.39 12.26	76.47 246.20	2.47 19.50	72.17 999.00	4.89 999.00	3.93 0.00
20 7 5 5 9.53	3.72 7.43		3.54 7.76	76.47 242.70	2.35 8.38	72.17 999.00	5.50 999.00	5.61 0.00
20 7 5 6 350.20 20 7 5 7 17.28	5.28 9.55		5.71 8.84	76.09 325.70 76.30 238.90	4.04 7.66	71.32 999.00 73.95 999.00	1.84 999.00	3.00 0.00
	5.60 5.72		5.24 5.05		1.01 50.83		2.16 999.00	3.13 0.00
20 7 5 8 45.21	3.72 10.14	76.02 999.00 44.02	3.44 8.52	76.48 115.60	1.47 19.69	74.97 999.00	0.41 999.00	1.98 0.00

	5 9	54.26	4.22	9.17		999.00	49.50	4.17	7.71	77.00	59.45	4.41	12.72		999.00	-2.85	999.00	0.34	0.00
20 7 5	5 10	74.20	2.23	37.44	77.28	999.00	86.90	2.70	24.39	77.89	132.10	2.38	22.78	80.35	999.00	-2.90	999.00	-0.12	0.00
20 7 5	5 11	75.10	4.15	15.31	77.87	999.00	70.20	4.16	20.20	78.54	67.50	3.91	34.15	80.30	999.00	-2.68	999.00	-0.99	0.00
20 7 5	5 12	56.18	4.17	15.62	77.87	999.00	45.83	3.90	12.92	78.54	49.90	5.17	12.74	80.30	999.00	-3.20	999.00	-0.28	0.00
	5 13	42.33	5.11	12.85	79.64	999.00	41.42	5.14	10.88	80.42	34.07	6.23	15.76	82.78	999.00	-3.39	999.00	-0.03	0.00
	5 14	37.91	6.64	8.75	80.07	999.00	36.23	6.29	8.60	80.56	44.93	7.25	15.85	83.18	999.00	-2.60	999.00	-0.81	0.00
	5 15	59.65	6.81	9.34	80.97	999.00	57.43	6.93	8.12	81.46	61.53	6.66	18.25	83.73	999.00	-2.93	999.00	-0.98	0.00
	5 16	69.69	6.81	9.01	81.26	999.00	74.20	6.80	9.77	81.90	103.20	5.70	14.61	84.30	999.00	-2.59	999.00	-1.38	0.00
	5 17	97.90	5.93	10.75	81.40	999.00	97.90	5.81	12.87		112.20	4.61	17.83	84.38	999.00	-2.92	999.00	-1.33	0.00
	5 18	102.00	6.46	9.68	81.98	999.00	101.90	6.97	7.75		119.30	5.34	15.09	84.38	999.00	-2.06	999.00	-0.75	0.00
	5 19	94.20	4.75	9.17	83.23	999.00	101.30	4.54	8.52		113.30	3.72	12.25	85.07	999.00	-1.92	999.00	-0.25	0.00
	5 20	95.10	6.66	5.42	82.85	999.00	95.20	5.59	7.73		108.80	2.48	19.61	84.75	999.00	-1.67	999.00	-0.50	0.00
	5 21	85.30	11.31	2.85	81.72	999.00	86.60	10.48	2.45		105.90	3.42	16.86	82.38	999.00	0.12	999.00	0.26	0.00
		109.50	12.12	4.74	81.72	999.00	106.80	10.75	5.11		116.10	4.60	12.74	82.38	999.00	0.17	999.00	0.14	0.00
20 7 5	5 23	134.50	13.82	3.99	80.07	999.00	135.50	12.93	4.70	80.02	158.10	3.33	21.02	79.30	999.00	1.41	999.00	1.07	0.00
20 7 5	5 24	153.60	14.58	2.07	79.40	999.00	154.90	11.77	2.75		189.90	2.57	19.22	77.57	999.00	2.48	999.00	2.34	0.00
20 7 6	6 1	164.20	12.56	1.48	79.56	999.00	160.30	12.44	1.31	81.30	179.20	2.38	16.57	76.70	999.00	2.98	999.00	4.67	0.00
20 7 6	6 2	166.50	10.21	1.63	79.36	999.00	158.90	11.63	1.10	81.57	201.60	2.07	17.47	76.03	999.00	3.34	999.00	4.90	0.00
20 7 6	6 3	197.40	7.24	6.28	79.63	999.00	180.60	9.27	1.71	81.76	184.30	1.90	16.66	76.05	999.00	3.83	999.00	5.57	0.00
20 7 6	6 4	179.40	10.69	3.48	78.09	999.00	175.30	10.40	4.94	78.49	155.70	1.59	50.27	74.97	999.00	3.47	999.00	3.72	0.00
20 7 6	6 5	182.40	4.80	9.46	78.34	999.00	166.50	5.26	20.28	80.06	85.00	3.11	42.90	74.93	999.00	3.16	999.00	4.70	0.00
20 7 6	6 6	131.30	3.09	35.73	77.02	999.00	111.50	3.40	22.50	77.57	136.30	2.43	27.48	75.73	999.00	0.27	999.00	0.54	0.00
		178.40	4.95	36.42	76.86	999.00	168.30	4.61	36.15		183.60	3.71	37.37	76.05	999.00	0.84	999.00	1.67	0.00
	6 8	212.10	2.97	17.07	76.86	999.00	184.30	1.28	30.42	77.77	234.40	1.33	39.47	76.05	999.00	0.68	999.00	2.43	0.00
		193.30	4.41	6.63	78.45	999.00	181.00	3.41	10.86		166.40	2.80	25.71	78.70	999.00	-2.16	999.00	0.96	0.00
		186.30	4.23	9.66	78.73	999.00	181.40	4.05	10.09	78.86	182.80	3.30	23.93	81.65	999.00	-3.24	999.00	0.22	0.00
	6 11	115.40	2.78	23.95	81.88	999.00	99.60	3.38	19.48	82.24	89.20	3.41	20.26	85.05	999.00	-3.18	999.00	-0.07	0.00
	6 12	99.20	4.65	13.70	82.14	999.00	80.90	4.73	13.82	82.63	61.36	4.58	21.34	84.52	999.00	-2.70	999.00	-0.95	0.00
	6 13	56.65			83.96	999.00	48.89	5.00	15.02		46.06				999.00	-2.74	999.00		0.00
			5.28	12.01						84.27		5.72	21.10	86.50				-1.07	
	6 14	63.86	10.79	5.62	83.86	999.00	58.84	10.55	7.62	84.19	67.84	8.44	14.68	86.72	999.00		999.00	-1.41	0.00
	6 15	74.00	11.98	3.27	84.15	999.00	70.70	11.27	7.68	83.85	78.80	8.74	12.17	86.00	999.00	-1.56	999.00	-1.62	0.00
	6 16	80.20	14.74	3.42	999.00	999.00	79.20	13.11	7.44	999.00	88.80	8.14	14.79	86.43	999.00	-2.49	999.00	-1.66	0.00
	6 17	90.20	16.97	4.35	999.00	999.00	85.90	15.07	6.78	999.00	97.30	8.82	14.59	86.10	999.00	-1.85	999.00	-1.16	0.00
	6 18	87.60	17.55	3.67	999.00	999.00	80.60	15.28	6.09	999.00	92.20	7.84	13.12	85.53	999.00	-1.24	999.00	-1.16	0.00
	6 19	92.20	15.62	3.46	84.35	999.00	85.50	14.21	4.31	83.98	92.30	6.46	14.20	85.28	999.00	-1.06	999.00	-0.36	0.00
		102.30	17.35	2.59	83.47	999.00	94.50	16.35	4.60	83.23	100.30	6.65	14.81	84.18	999.00	-0.56		-0.24	0.00
		110.90	15.16	4.53	999.00	999.00	107.90	12.71	6.27	999.00	106.40	4.81	15.98	82.83	999.00	0.31	999.00	0.46	0.00
20 7 6	6 22	112.20	16.71	1.62	82.73	999.00	109.90	14.02	3.05	82.95	115.00	5.99	12.73	82.30	999.00	0.73	999.00	0.70	0.00
20 7 6	6 23	116.70	16.88	4.19	82.72	999.00	113.20	13.55	5.27	82.83	119.00	4.83	14.57	82.40	999.00	0.53	999.00	0.30	0.00
20 7 6	6 24	139.80	15.27	2.05	82.53	999.00	136.70	13.44	3.56	82.70	145.10	3.67	20.46	81.83	999.00	0.85	999.00	0.81	0.00
20 7 7	7 1	156.10	12.91	4.19	83.22	999.00	144.60	11.94	3.89	84.36	140.50	2.87	34.47	81.52	999.00	1.53	999.00	2.92	0.00
20 7 7	7 2	200.80	11.95	2.11	81.05	999.00	189.30	11.79	3.14	81.60	203.70	4.04	8.94	79.65	999.00	1.75	999.00	2.17	0.00
20 7 7			14.71	2.27	80.26	999.00	218.50	13.97	1.97	80.99	213.80	3.96	11.67	78.05	999.00	2.84	999.00	2.59	0.00
20 7 7			16.53	3.95		999.00		15.15	4.88		205.70	4.66			999.00		999.00	2.40	0.00
20 7 7			15.13	4.12		999.00		12.54	4.07		199.70	4.17	11.33		999.00		999.00	1.44	0.00
20 7			13.14	3.49		999.00		10.92	4.09		200.50	4.26	13.24		999.00		999.00	1.02	0.00
20 7			8.09	3.45		999.00		8.77	1.79		194.60	3.10	12.07		999.00		999.00	0.89	0.00
20 7			7.61	5.50		999.00		7.68	6.70		215.20	3.50	18.46		999.00		999.00	-0.05	0.00
20 7 7			5.64	10.98															
						999.00		4.91	12.46		221.50	4.59	13.62		999.00		999.00	-1.05	0.00
20 7 7			4.25	14.22		999.00		4.11	15.86		233.10	4.10	18.38		999.00		999.00	-1.00	0.00
20 7 7			4.84	19.09		999.00		4.85	21.54		301.00	3.84	31.47		999.00		999.00	-2.02	0.00
20 7 7	/ IZ	330./0	5.85	16.48	83.85	999.00	336.60	6.00	15.08	83.99	2.24	5.56	12.50	87.45	999.00	-3.61	999.00	-0.31	0.00

20 7 7 12 252 00	F 00 01 0	0 04 50	000 00 250 40	Г 1.4	17 20	04.00	10 67	F 27	14 10	07.05	000 00	2 24	000 00	0 42	0 00
20 7 7 13 352.90 20 7 7 14 4.90	5.02 21.9 5.66 14.3		999.00 359.40 999.00 14.53	5.14 5.40	17.30 14.18	84.80 85.54	18.67 37.19	5.37 5.84	14.12 14.37	88.50	999.00		999.00	0.43	0.00
20 7 7 14 4.90	5.66 14.3 7.63 15.7		999.00 14.53 999.00 10.80	6.66	13.79	85.66	28.07	6.58	16.40	88.65	999.00 999.00	-3.46	999.00 999.00	0.37 -0.15	0.00
20 7 7 15 11.11	6.52 10.3		999.00 71.00	6.79	8.31		111.70	6.66	11.09	87.42	999.00	-0.75	999.00	-1.11	0.00
20 7 7 10 04.19	7.45 8.7		999.00 94.70	7.58	7.40		115.40	5.71	13.77	87.42	999.00	-2.48	999.00	-1.11	0.00
20 7 7 17 92.10	8.48 4.8		999.00 109.70	8.73	4.93		111.70	5.58	12.81	88.47	999.00	-1.57	999.00	-1.19	0.00
20 7 7 19 116.50	10.63 4.5		999.00 110.80	9.08	6.08		111.70	4.47	15.90	88.57	999.00	-1.18	999.00	-0.55	0.00
20 7 7 20 145.60	13.82 4.0		999.00 141.90	12.27	4.57		140.70	4.77	17.60	86.80	999.00	-0.68	999.00	-0.24	0.00
20 7 7 21 164.20	12.68 4.3		999.00 161.50	10.98	5.18		174.40	4.30	19.19	85.82	999.00	-0.48	999.00	-0.26	0.00
20 7 7 22 190.00	18.97 4.6		999.00 187.10	17.05	5.82		195.50	8.83	16.13	83.72	999.00	-1.16	999.00	-0.71	0.00
20 7 7 23 188.10	15.24 4.1		999.00 184.50	13.70	5.23		197.60	6.30	18.35	80.85	999.00	-1.11	999.00	-0.88	0.00
20 7 7 24 18.16	26.41 4.8		999.00 16.43	22.37	6.71	76.14	26.41	16.10	11.43	76.95	999.00	0.39	999.00	-1.06	0.00
20 7 8 1 305.70	3.50 43.5		999.00 326.50	3.62	35.52		339.50	3.27	50.91	79.47	999.00	1.06	999.00	0.48	0.00
20 7 8 2 232.30	11.65 4.6		999.00 228.60	10.62	4.63		237.40	7.25	12.25	77.98	999.00	0.75	999.00	0.41	0.00
20 7 8 3 219.60	12.95 2.9		999.00 214.30	9.60	6.40		194.60	4.51	11.85	75.70	999.00	0.54	999.00	0.37	0.00
20 7 8 4 197.70	13.12 5.7		999.00 182.20	11.10	5.29	999.00		3.57	14.77	74.40	999.00	0.94	999.00	0.93	0.00
20 7 8 5 176.40	16.32 3.2		999.00 168.20	14.12	3.04		183.70	5.22	14.96	73.68	999.00	0.02	999.00	0.17	0.00
20 7 8 6 198.70	15.79 2.2		999.00 190.30	12.97	3.07		196.10	5.61	13.51	73.13	999.00	0.01	999.00	-0.47	0.00
20 7 8 7 197.20	15.05 2.3		999.00 189.70	12.30	4.14		199.50	5.71	13.16	72.53	999.00	-0.50	999.00	-0.70	0.00
20 7 8 8 210.10	12.53 5.8		999.00 204.80	10.66	6.65		216.20	6.88	12.02	73.35	999.00	-1.46	999.00	-1.09	0.00
20 7 8 9 203.70	10.73 5.9	5 73.68	999.00 199.00	9.80	8.13	73.89	208.30	7.14	16.21	75.97	999.00	-2.74	999.00	-1.35	0.00
20 7 8 10 270.30	7.26 13.1		999.00 268.20	7.00	11.50		269.10	5.48	14.74	78.72	999.00	-2.75	999.00	-1.96	0.00
20 7 8 11 191.00	3.07 47.7	9 79.07	999.00 172.20	3.15	43.53	79.37	190.20	3.42	55.79	82.07	999.00	-3.17	999.00	-0.70	0.00
20 7 8 12 78.80	4.18 31.4	3 81.40	999.00 71.10	3.94	23.86	81.71	58.84	3.65	53.44	84.72	999.00	-2.94	999.00	0.14	0.00
20 7 8 13 77.10	6.61 8.0	8 81.49	999.00 74.30	6.70	10.69	81.74	75.00	6.13	17.58	83.95	999.00	-2.96	999.00	-1.03	0.00
20 7 8 14 66.39	5.88 11.7	5 999.00	999.00 58.11	5.65	16.61	999.00	59.26	5.69	23.84	85.27	999.00	-3.08	999.00	-0.96	0.00
20 7 8 15 60.15	6.64 7.3	3 84.18	999.00 53.89	6.65	8.40	84.17	56.36	6.99	12.88	86.40	999.00	-2.80	999.00	-1.11	0.00
20 7 8 16 54.29	7.24 8.7	8 84.77	999.00 53.28	7.61	8.20	84.81	60.24	7.79	14.51	87.05	999.00	-2.36	999.00	-0.96	0.00
20 7 8 17 53.19	8.92 7.9	7 84.63	999.00 52.41	9.03	8.85	84.57	60.77	8.89	17.12	86.50	999.00	-2.42	999.00	-1.09	0.00
20 7 8 18 56.41	11.78 6.8	1 84.45	999.00 56.12	11.10	9.21	84.30	66.37	9.11	12.47	86.28	999.00	-1.80	999.00	-1.43	0.00
20 7 8 19 35.05	13.14 7.3		999.00 37.24	10.01	9.14	83.56	51.81	7.76	15.49	84.67	999.00	-0.41	999.00	-0.79	0.00
20 7 8 20 217.10	13.09 16.5		999.00 214.10	12.60	23.84	74.09	198.80	7.78	37.98	75.10	999.00	-0.56	999.00	0.91	0.01
20 7 8 21 168.70	6.63 19.7		999.00 162.20	6.78	20.54		143.40	4.86	14.25	71.27	999.00	4.24	999.00	5.57	0.00
20 7 8 22 158.20	15.45 4.7		999.00 156.90	14.96	4.73		178.30	4.63	20.85	73.13	999.00	4.40	999.00	7.21	0.00
20 7 8 23 170.70	8.76 5.4		999.00 165.50	10.83	6.00		212.80	2.97	13.59	73.17	999.00	7.35	999.00	4.82	0.00
20 7 8 24 249.20	8.86 16.5		999.00 250.70	7.88	13.58		236.80	5.42	10.49	72.43	999.00	0.66	999.00	1.50	0.00
20 7 9 1 252.30	6.86 4.5		999.00 264.70	6.22	7.09		329.70	2.51	20.81	72.85	999.00	2.28	999.00	2.47	0.00
20 7 9 2 324.00	4.15 16.9		999.00 334.00	4.45	12.42		298.80	2.30	39.93	73.40	999.00	1.01	999.00	1.59	0.00
20 7 9 3 319.30	1.67 42.9		999.00 23.28	1.76	24.56		117.90	2.18	25.89	73.93	999.00	0.95	999.00	1.70	0.00
20 7 9 4 160.70	4.70 7.1		999.00 133.80	5.44	4.66		158.90	3.94	7.56	74.60	999.00	1.63	999.00	1.58	0.00
20 7 9 5 230.00	6.30 5.0		999.00 218.60	5.05	5.51		270.90	3.07	20.32	73.40	999.00	2.00	999.00	1.31	0.00
20 7 9 6 226.30	5.46 3.7		999.00 213.60	6.11	2.19		208.80	2.11	16.72	73.07	999.00	1.84	999.00	2.72	0.00
20 7 9 7 271.80	5.73 4.6		999.00 245.70	7.24	3.90		239.90	4.05	7.61		999.00		999.00	2.86	0.00
20 7 9 8 247.20	6.83 3.5		999.00 238.00		5.04		227.90				999.00		999.00	0.98	0.00
20 7 9 9 200.50	2.85 19.1		999.00 198.70		17.00		221.40		18.55		999.00		999.00	-0.24	0.00
20 7 9 10 120.10	3.34 19.1		999.00 123.80	2.94	19.89		128.40 126.20	2.35	33.59		999.00		999.00 999.00	0.30	0.00
20 7 9 11 162.40 20 7 9 12 135.90	2.41 31.0 4.23 16.0		999.00 129.20	2.08	27.98			1.81 3.79	58.92 14.49		999.00 999.00			0.19 -0.91	0.00
20 7 9 12 135.90	2.66 82.2		999.00 117.10 999.00 164.40	4.18 2.69	13.44		122.30 169.20	2.86	72.80		999.00		999.00 999.00	-0.91	0.00
20 7 9 13 175.00	5.05 19.9		999.00 164.40	5.66	19.92	84.65	27.53	7.16	12.00		999.00		999.00	0.36	0.00
20 7 9 14 33.61 20 7 9 15 26.92	7.16 10.5		999.00 43.49	6.41	11.03	84.50	37.12	7.18	15.83		999.00		999.00	0.36	0.00
20 7 9 16 64.80	9.76 6.3		999.00 63.85	10.15	7.73		72.40		15.93		999.00		999.00	-1.11	0.00
20 / 9 10 04.00	9.10 0.3) 03.40	JJJ.00 03.03	10.10	1.13	03.73	12.40	0.30	10.30	00.10	222.00	2.04	999.UU	T • T T	0.00

20 7 9 17 68.71	8.59	6.34	02 70	999.00	64.50	8.59	7.32	84.05	79.60	7.32	12.65	86.05	999.00	-2 20	999.00	-1.27	0.00
20 7 9 18 82.70	14.71	5.96	84.19	999.00	79.00	13.32	7.18	84.40	89.60	7.55	16.53	86.38	999.00	-2.22	999.00	-1.47	0.00
20 7 9 19 86.80	13.31	4.83	999.00	999.00	81.40	12.19	7.18	999.00	93.50	5.53	16.81	85.57	999.00	-0.43	999.00	-0.81	0.00
20 7 9 20 243.10	7.72	66.08	999.00	999.00	227.70	8.15	69.57	999.00		6.44	73.60	85.57	999.00	1.44	999.00	0.83	0.21
20 7 9 21 116.00	17.08	3.45	82.17	999.00	115.60	14.33	5.64		125.50	6.47	15.14	81.35	999.00	-0.01	999.00	0.49	0.00
20 7 9 22 130.30	14.59	4.95	80.31	999.00		11.82	7.59		142.00	5.36	16.17	80.05	999.00	-0.44	999.00	-0.69	0.00
20 7 9 23 166.70	15.59	3.62	77.77	999.00		11.86	5.66		197.20	5.37	15.66	78.35	999.00	0.06	999.00	-0.51	0.00
20 7 9 24 174.90	17.44	2.50	79.70	999.00		14.10	2.66		173.50	3.59	18.78	76.72	999.00	5.18	999.00	1.88	0.00
20 7 10 1 211.30	14.27	1.99	82.81	999.00		13.41	3.94		215.70	4.00	12.56	76.63	999.00	5.76	999.00	2.98	0.00
20 7 10 2 179.40	12.20	7.17	80.97	999.00		13.33	2.03		168.20	3.45	13.91	75.97		4.36	999.00	3.12	0.00
20 7 10 3 190.30	14.43	2.48	80.97	999.00		14.55	2.06		193.50	4.17	13.36	75.97	999.00	4.66	999.00	4.23	0.00
20 7 10 4 184.50	16.21	1.26	80.38	999.00		12.55	1.61		177.10	3.24	16.32	75.93	999.00	3.58	999.00	1.87	0.00
20 7 10 5 185.10	15.73	1.18	78.69	999.00		13.01	2.23		180.80	3.85	19.51	75.58	999.00	3.91	999.00	1.61	0.00
20 7 10 6 193.20	18.69	1.13	78.90	999.00		14.40	1.72		193.80	4.60	13.33	75.20	999.00	5.22	999.00	2.30	0.00
20 7 10 7 189.40	21.62	1.60	999.00	999.00		16.41	2.39		179.10	4.57	15.79	74.83	999.00	5.73	999.00	1.55	0.00
20 7 10 8 192.20	14.86	3.92	77.63	999.00		11.19	5.84		196.30	4.86	17.56	76.07	999.00	-0.35	999.00	0.37	0.00
20 7 10 9 194.00	13.95	5.01	77.74	999.00		12.25	6.36	77.80	198.00	6.45	16.96	79.40	999.00	-2.16	999.00	-0.72	0.00
20 7 10 10 198.50	12.50	7.42	79.58	999.00	197.80	11.75	8.88	80.00	209.60	7.59	19.55	82.33	999.00	-2.91	999.00	-1.34	0.00
20 7 10 11 188.80	13.50	7.44	81.42	999.00	185.00	12.83	9.40	81.91	196.50	7.99	19.36	84.22	999.00	-2.90	999.00	-1.23	0.00
20 7 10 12 178.40	16.10	6.55	83.48	999.00	175.20	15.30	7.35	83.96	185.20	8.86	16.92	86.35	999.00	-2.70	999.00	-0.75	0.00
20 7 10 13 172.00	14.06	8.01	84.56	999.00	167.50	13.37	8.28	85.00	176.10	6.85	22.37	86.85	999.00	-2.51	999.00	-0.67	0.03
20 7 10 14 181.10	10.15	31.33	85.41	999.00	177.60	9.60	35.79	85.87	191.30	5.93	45.25	88.53	999.00	-3.45	999.00	-1.29	0.43
20 7 10 15 270.40	12.48	11.75	73.87	999.00	274.40	10.56	12.19	74.29	281.00	5.39	25.91	76.28	999.00	-0.24	999.00	-0.19	0.00
20 7 10 16 195.00	11.42	5.85	68.85	999.00	185.70	8.56	10.65	70.28	188.70	4.06	24.70	70.56	999.00	-1.80	999.00	-0.03	0.01
20 7 10 17 188.00	11.56	4.10	72.44	999.00	180.40	8.91	7.44	73.19	192.30	5.18	16.44	73.80	999.00	-1.87	999.00	-1.51	0.00
20 7 10 18 174.90	5.01	24.57	72.44	999.00	169.40	4.74	25.58	73.19	155.60	3.69	19.79	73.80	999.00	-1.79	999.00	1.78	0.01
20 7 10 19 248.70	8.92	5.43	74.15	999.00	245.50	5.83	9.98	74.76	268.50	1.46	42.02	74.98	999.00	0.51	999.00	0.49	0.00
20 7 10 20 243.80	11.67	8.05	72.47	999.00	240.50	10.46	6.65	73.43	250.30	7.05	9.97	73.28	999.00	-0.70	999.00	-0.15	0.00
20 7 10 21 236.50	13.85	5.40	72.47	999.00	233.90	12.27	6.61		237.40	8.25	10.38	73.28	999.00	-0.89	999.00	-1.40	0.00
20 7 10 22 276.50	22.44	4.86	71.70	999.00	273.20	20.77	5.33	72.39	276.10	12.64	9.73	72.38	999.00	-0.44	999.00	-1.13	0.00
20 7 10 23 288.20	25.98	7.38	71.96	999.00	284.30	24.08	6.81		287.40	14.69	12.50	72.57	999.00	-0.81	999.00	-0.80	0.00
20 7 10 24 302.30	30.05	4.71	71.78	999.00	298.80	28.50	5.77		304.80	16.89	11.96	72.75	999.00	-0.90	999.00	-1.06	0.00
20 7 11 1 308.00	29.84	6.37	70.79	999.00	303.40	27.97	7.09		308.10	17.46	11.62	71.42	999.00	-1.08	999.00	-0.67	0.02
20 7 11 2 301.30	23.54	8.95	70.29	999.00	296.80	21.55	9.43	71.04	301.80	13.13	15.02	70.95	999.00	-0.34	999.00	0.42	0.00
20 7 11 3 294.80	24.10	6.67	70.51		289.80	22.68	6.84		294.00	14.14	11.58	71.15	999.00	-0.44	999.00	0.04	0.00
20 7 11 4 305.90	25.34	6.66	70.96		302.10	24.14	7.31		306.20	14.78	12.11	71.80	999.00	-1.21	999.00	0.00	0.00
20 7 11 5 309.00	25.76	5.84		999.00	305.20	24.16	6.73		310.70	15.93	11.49	71.95	999.00	-1.33	999.00	-0.98	0.00
20 7 11 6 295.80	23.53	6.22	70.29	999.00	292.30	21.94	6.43	70.73	296.30	12.59	12.77	71.60	999.00	-1.28	999.00	-0.88	0.00
20 7 11 7 300.60	24.26	6.23	70.29	999.00	296.30	22.64	7.81		302.20	13.44	13.31	71.60	999.00	-1.21	999.00	-0.80	0.00
20 7 11 8 293.20	21.91	6.63	68.32	999.00	288.70	20.71	7.68		289.20	13.67	11.19	69.49	999.00	-1.17	999.00	-1.13	0.00
20 7 11 9 300.90	22.97	6.22	68.98	999.00	297.80	22.32	7.06		302.80	14.30	12.42	71.02	999.00	-2.34	999.00	-1.98	0.00
20 7 11 10 296.60	22.66	5.96	70.19	999.00	292.70	21.42	7.52	70.66	297.60	13.87	13.14	72.70	999.00	-2.64	999.00	-2.28	0.00
20 7 11 11 295.70	20.02	7.65		999.00		19.27	8.03		294.90	13.08	13.95		999.00		999.00	-2.31	0.00
	19.53			999.00		19.07		73.61			12.60				999.00	-2.35	0.00
20 7 11 13 294.10	18.75	8.30		999.00		18.43	8.82		297.40 307.00				999.00		999.00 999.00	-2.44	0.00
20 7 11 14 301.00	19.37	7.92		999.00		18.67	7.85			13.11	14.55		999.00			-2.62	0.00
20 7 11 15 299.90	18.70	7.31		999.00		18.22	8.19		302.30	12.69	14.34		999.00		999.00	-2.51	0.00
20 7 11 16 296.30 20 7 11 17 295.70	17.50 17.54	8.24 6.63		999.00		17.04 16.92	8.69		294.70	13.40	13.12 14.83		999.00 999.00		999.00 999.00	-2.25 -2.28	0.00
20 7 11 17 295.70	17.54	5.23		999.00 999.00		16.92	6.91 5.89		302.30 297.50	12.00 10.46	14.83		999.00		999.00	-2.28 -2.07	0.00
20 7 11 16 294.60	14.46	5.34		999.00		13.51	6.03		297.30		12.43		999.00		999.00	-1.85	0.00
20 7 11 19 293.30	13.63	5.59		999.00		12.15		81.31			13.00		999.00		999.00	-1.05	0.00
20 / 11 20 299.70	13.03	J.J9	00.00	222.00	231.00	14.13	0.01	01.31	504.00	0.00	13.00	02.31	222.00	-1.02	222.UU	-1.00	0.00

	7 11 21		17.50	3.29	80.03	999.00		14.98	4.42		284.80	7.24	9.13	80.32	999.00	0.17	999.00	0.63	0.00
20	7 11 22	289.30	17.24	2.31	79.19	999.00	283.40	14.90	2.88	79.47	274.30	5.73	6.33	77.97	999.00	1.76	999.00	2.12	0.00
20	7 11 23	289.70	16.45	3.01	78.06	999.00	283.70	13.80	3.66	78.27	265.90	4.90	7.92	76.15	999.00	1.79	999.00	1.81	0.00
20	7 11 24	282.90	16.09	2.50	76.73	999.00	274.70	14.02	2.97	76.89	256.00	5.99	7.16	75.07	999.00	1.84	999.00	1.84	0.00
20	7 12 1	281.70	15.30	2.16	76.06	999.00	269.80	13.01	2.85	76.01	246.30	5.24	5.58	73.70	999.00	2.50	999.00	2.41	0.00
20	7 12 2	286.90	18.36	1.70	74.93	999.00	278.60	16.50	1.55	74.78	259.80	6.43	8.26	72.23	999.00	2.75	999.00	2.72	0.00
20	7 12 3		16.20	3.00	73.44	999.00	282.10	13.90	2.73	73.44	255.10	5.86	7.60	70.75	999.00	2.71	999.00	2.47	0.00
	7 12 4		15.50	4.19	73.13	999.00	313.60	13.86	5.58		280.80	5.06	8.48	69.99	999.00	2.80	999.00	3.13	0.00
	7 12 5		15.15	4.25	73.32	999.00	322.10	14.59	4.56		319.50	8.95	10.85	73.15	999.00	-0.55	999.00	-0.16	0.00
	7 12 6	347.40	12.61	5.20	73.06	999.00	344.20	12.19	6.37		343.30	7.76	9.25	73.80	999.00	-1.02	999.00	-0.85	0.00
	7 12 7	25.62	9.23	6.40	72.72	999.00	21.33	8.06	7.83	73.11	24.43	6.76	11.74	74.00	999.00	-1.41	999.00	-0.87	0.00
	7 12 8	37.84	5.46	11.36	72.86	999.00	34.27	4.79	11.85	73.28	41.75	3.95	15.08	74.40	999.00	-1.52	999.00	-0.75	0.00
	7 12 9	48.08	3.38	9.41	72.86	999.00	43.40	3.09	9.86	73.28	62.00	2.64	26.97	74.40	999.00	-1.43	999.00	-0.58	0.00
	7 12 10		4.27	5.30	72.98	999.00	340.70	4.43	5.47	73.50	351.80	4.33	8.58	75.27	999.00	-2.60	999.00	-0.99	0.00
	7 12 10		7.57	8.74	72.93	999.00	336.50	7.43	8.33	73.43	346.60	6.19	11.38	75.70	999.00	-2.73	999.00		0.00
																		-1.13	
	7 12 12		4.74	14.37	72.93	999.00	344.70	4.46	17.03	73.43	359.70	4.19	25.57	75.70	999.00	-3.55	999.00	-0.69	0.00
	7 12 13	14.18	6.77	14.80	73.65	999.00	10.06	6.43	15.45	74.12	7.70	6.52	19.69	77.45	999.00	-3.65	999.00	0.01	0.00
	7 12 14		5.31	16.10	74.24	999.00	347.70	5.15	15.66	74.64	0.01	5.08	21.46	78.08	999.00	-3.90	999.00	-0.24	0.00
	7 12 15	2.58	4.27	19.25	75.87	999.00	9.12	4.05	20.34	76.37	23.14	4.41	25.57	79.75	999.00	-3.87	999.00	0.04	0.00
	7 12 16	3.77	5.78	17.61	76.71	999.00	0.46	5.63	14.37	77.07	21.19	5.86	16.84	80.63	999.00	-3.90	999.00	-0.14	0.00
	7 12 17		5.70	21.77	77.26	999.00	350.30	5.87	15.34	77.79	11.34	5.34	14.68	81.15	999.00	-3.85	999.00	-0.35	0.00
	7 12 18	345.70	4.07	21.38	77.68	999.00	349.80	4.23	16.80	78.28	21.61	4.43	22.86	81.05	999.00	-3.26	999.00	-0.16	0.00
	7 12 19	325.90	6.26	15.55	77.68	999.00	324.20	6.25	16.82	78.28	336.10	4.50	17.70	81.05	999.00	-3.13	999.00	-1.37	0.00
	7 12 20		3.92	16.87	77.32	999.00	301.20	3.94	18.55	77.76	276.90	2.85	17.26	79.08	999.00	-1.34	999.00	-1.02	0.00
20	7 12 21	268.40	7.69	27.00	77.26	999.00	263.00	7.17	20.29	77.63	268.80	4.75	15.18	78.60	999.00	-1.31	999.00	-0.77	0.00
20	7 12 22	345.40	9.20	15.14	74.12	999.00	337.10	7.23	45.83	74.35	265.60	4.08	68.29	74.55	999.00	0.57	999.00	0.01	0.00
20	7 12 23	3.96	8.91	15.01	76.54	999.00	358.70	8.65	13.52	76.95	1.95	6.78	15.43	77.70	999.00	-1.39	999.00	-1.09	0.00
20	7 12 24	42.22	6.11	10.20	75.71	999.00	40.31	5.57	9.82	76.11	59.04	4.21	18.93	76.97	999.00	-0.99	999.00	-0.76	0.00
20	7 13 1	35.46	13.72	7.07	74.09	999.00	30.16	11.49	8.90	74.51	34.60	10.93	12.88	75.50	999.00	-1.68	999.00	-1.18	0.00
20	7 13 2	50.90	14.17	6.81	74.09	999.00	47.35	13.13	7.33	74.51	59.20	9.80	12.50	75.50	999.00	-1.35	999.00	-0.97	0.00
20	7 13 3	59.49	14.71	4.39	70.00	999.00	55.63	14.53	5.18	70.37	63.89	8.31	12.80	71.20	999.00	-1.10	999.00	-0.80	0.00
20	7 13 4	70.60	11.17	6.14	999.00	999.00	67.72	11.11	6.70	999.00	72.20	6.86	10.94	70.73	999.00	-0.87	999.00	-0.54	0.00
20		62.21	11.13	7.96	69.79	999.00	60.57	11.00	7.89	70.17	72.30	6.74	12.20	70.68	999.00	-0.87	999.00	-0.61	0.00
	7 13 6	59.34	7.39	7.48	69.79	999.00	56.71	7.45	6.66	70.17	69.54	4.89	10.93	70.68	999.00	-0.75	999.00	-0.51	0.00
	7 13 7	44.47	9.64	9.25	69.70	999.00	41.84	8.72	9.46	70.09	57.62	6.96	16.08	70.57	999.00	-1.12	999.00	-0.77	0.00
	7 13 8	44.30	9.04	9.97	69.85	999.00	42.62	8.83	10.25	70.28	56.74	7.70	15.91	71.55	999.00		999.00	-0.60	0.00
	7 13 9	40.03	9.29	9.58	69.69	999.00	36.81	8.09	10.36	70.14	40.86	8.55	16.50	72.18	999.00	-2.74	999.00	-0.67	0.00
	7 13 10	34.92	8.11	12.24	69.81	999.00	30.47	7.63	13.82	70.22	30.77	7.73	16.79	72.68	999.00	-3.20	999.00	-0.32	0.00
	7 13 10	20.26	8.90	11.39	69.86	999.00	14.82	8.49	11.55	70.41	19.78	8.20	13.95	72.88	999.00	-2.85	999.00	-0.41	0.00
	7 13 11	7.64	8.62	17.56	69.86	999.00	5.34	8.23	16.12	70.41	10.10	7.20	26.09	72.88	999.00	-2.24	999.00	-1.02	0.00
	7 13 12	354.40	6.11	14.83	69.58	999.00	349.00	6.34	11.35	70.41	0.09	5.59	22.92	72.05	999.00	-3.48	999.00	-0.32	0.00
	7 13 13	26.13	4.28	48.22	71.33	999.00	37.21	4.27	32.15	71.89	61.11	5.53	23.36	74.85	999.00	-3.30	999.00		0.00
																		-0.36	
	7 13 15	24.82	4.86	26.66		999.00	16.71	4.61	22.85	72.86	354.90	4.03	41.00		999.00		999.00	-0.71	0.00
	7 13 16		5.16	21.42		999.00	7.59	5.09	23.71	72.86	8.03	4.72	24.97		999.00		999.00	-0.43	0.00
	7 13 17	41.78	4.72	25.65		999.00	41.04	4.48	21.10	74.45	54.90	5.03	31.61		999.00		999.00	-0.44	0.00
	7 13 18	75.30	5.24	22.19		999.00	70.30	5.29	18.03	74.80	89.60	4.05	23.63		999.00		999.00	-1.18	0.00
	7 13 19	66.58	3.50	24.60	999.00	999.00	69.95	3.50	18.25	999.00	89.90	2.95	21.30		999.00		999.00	-0.99	0.00
	7 13 20	89.90	5.52	9.55	74.60		85.80	5.43	9.91	75.16	95.00	3.61	12.67		999.00	-1.93	999.00	-0.73	0.00
	7 13 21	99.00	5.68	6.07	74.33		95.60	5.62	5.76	74.82	97.90	2.96	10.95		999.00		999.00	-0.49	0.00
	7 13 22		4.75	5.27			117.30	4.19	7.10	74.21	131.00	1.64	20.71		999.00		999.00	-0.17	0.00
	7 13 23		8.46	4.00	73.53	999.00	120.60	8.28	4.47	73.90	137.90	3.20	14.56		999.00	-0.02	999.00	0.44	0.00
20	7 13 24	96.60	7.11	5.95	73.42	999.00	97.10	6.65	6.28	73.84	118.70	2.06	25.50	73.23	999.00	0.20	999.00	0.57	0.00

20 7 14 1 145.40	10.54 2.1		999.00 146.00	9.94	3.47	73.35		1.97	30.23		999.00		999.00	2.57	0.00
20 7 14 2 155.50	11.64 3.0		999.00 156.30	11.15	2.87	72.07		2.71	17.76	69.20	999.00	2.10	999.00	2.41	0.00
20 7 14 3 155.00	11.90 2.4		999.00 153.60	10.28	2.36	71.11		2.75	18.31	68.67	999.00	2.48	999.00	1.89	0.00
20 7 14 4 162.40	11.38 2.9		999.00 163.00	8.62	4.18	69.21		1.94	37.38	67.74	999.00	1.28	999.00	0.60	0.00
20 7 14 5 170.70	11.99 1.6		999.00 171.30	10.66	1.86	68.28		3.81	12.51	66.99	999.00	1.31	999.00	1.10	0.00
20 7 14 6 202.50	12.96 2.4		999.00 210.30	10.05	5.53	67.33		5.45	9.02	66.31	999.00	0.92	999.00	0.26	0.00
20 7 14 7 205.90	14.98 1.9		999.00 218.00	11.50	4.45		224.50	4.14	14.99	66.34	999.00	2.21	999.00	1.25	0.00
20 7 14 8 229.50	12.64 5.8		999.00 238.10	11.12	5.19	67.48		4.82	9.16	66.34	999.00	1.00	999.00	1.13	0.00
20 7 14 9 235.90	10.18 7.2		999.00 235.20	8.52	9.27	68.59		5.41	15.36	68.41	999.00	-1.12	999.00	-0.81	0.00
20 7 14 10 222.00	5.29 13.8		999.00 221.60	5.08	14.88	70.27		4.48	19.44	72.57	999.00	-2.85	999.00	-0.97	0.00
20 7 14 11 231.80	4.05 32.0	3 72.49	999.00 216.00	4.05	23.02	73.04	225.70	3.08	46.79	75.60	999.00	-3.31	999.00	-1.21	0.00
20 7 14 12 37.53	6.55 11.7		999.00 40.84	5.78	9.89	74.90	53.86	6.91	15.72	77.57	999.00	-2.87	999.00	-0.26	0.00
20 7 14 13 44.82	6.83 10.3			6.49	10.27	75.26	46.59	7.55	13.29	77.45	999.00	-3.06	999.00	-0.62	0.00
20 7 14 14 60.05	7.53 8.6	4 75.11	999.00 56.48	7.51	9.33	75.66	67.79	7.01	21.74	78.03	999.00	-2.74	999.00	-1.10	0.00
20 7 14 15 55.88	7.47 10.5	8 75.79	999.00 51.31	7.47	10.76	76.35	55.31	7.42	17.13	78.55	999.00	-2.82	999.00	-1.15	0.00
20 7 14 16 72.50	8.34 8.7	7 76.29	999.00 69.74	8.53	7.06	76.83	82.80	6.05	16.41	79.30	999.00	-3.07	999.00	-1.77	0.00
20 7 14 17 79.60	10.31 8.8	4 76.76	999.00 73.50	10.12	9.44	77.23	80.10	7.21	18.22	79.60	999.00	-2.85	999.00	-1.72	0.00
20 7 14 18 68.78	8.77 5.6	3 77.33	999.00 64.78	8.90	7.54	77.83	74.50	6.72	14.77	79.85	999.00	-2.15	999.00	-1.16	0.00
20 7 14 19 85.30	13.53 2.8	9 77.34	999.00 82.80	12.94	3.90	77.76	97.60	6.41	15.34	79.30	999.00	-1.60	999.00	-0.88	0.00
20 7 14 20 101.10	14.35 3.3	1 77.05	999.00 97.10	13.84	4.78	77.45	102.50	5.84	14.45	78.42	999.00	-1.01	999.00	-0.45	0.00
20 7 14 21 103.70	13.48 3.9	5 76.84	999.00 100.20	13.26	4.95	77.21	106.80	6.43	15.74	78.00	999.00	-0.94	999.00	-0.37	0.00
20 7 14 22 103.70	14.30 3.3	76.01	999.00 100.60	14.13	3.75	76.41	106.80	6.62	13.76	76.67	999.00	-0.72	999.00	-0.37	0.00
20 7 14 23 109.00	15.02 3.3	9 75.51	999.00 105.80	14.36	4.43	75.89	111.50	6.70	14.39	76.15	999.00	-0.60	999.00	-0.27	0.00
20 7 14 24 119.20	15.62 3.3		999.00 117.90	13.23	4.91	999.00	133.00	5.77	14.25	75.70	999.00	-0.28	999.00	-0.06	0.00
20 7 15 1 130.80	16.66 3.1	3 74.86	999.00 128.80	14.48	4.58	74.98	136.60	5.93	14.44	74.90	999.00	-0.09	999.00	-0.02	0.00
20 7 15 2 139.60	15.87 3.5	9 73.99	999.00 137.10	14.16	4.61	74.06	140.70	4.84	17.20	73.93	999.00	-0.07	999.00	-0.06	0.00
20 7 15 3 147.40	18.73 2.6		999.00 144.60	15.09	4.59	72.66		4.83	21.53	72.53	999.00	-0.06	999.00	-0.09	0.00
20 7 15 4 155.50	14.52 2.1	6 71.66	999.00 153.90	10.71	2.77	71.40		2.88	18.88	70.83	999.00	1.36	999.00	1.04	0.00
20 7 15 5 154.80	16.54 1.3	3 70.82	999.00 152.50	12.53	2.34	70.58		3.12	20.61	69.46	999.00	1.74	999.00	1.32	0.00
20 7 15 6 162.60	18.10 1.4		999.00 158.70	14.27	2.10	70.44		3.88	19.54	69.14	999.00	2.17	999.00	1.15	0.00
20 7 15 7 173.80	21.00 0.8		999.00 163.50	16.35	1.57	70.23		4.18	15.48	68.46	999.00	4.85	999.00	2.36	0.00
20 7 15 8 175.10	19.69 2.6		999.00 168.50	15.37	4.10	70.45		5.06	18.46	69.61	999.00	1.08	999.00	0.60	0.00
20 7 15 9 180.70	12.55 4.3		999.00 176.60	11.47	5.28	72.13		6.08	15.59	73.50	999.00	-2.07	999.00	-0.28	0.00
20 7 15 10 183.80	9.87 9.3		999.00 180.90	9.34	9.93	75.15		5.68	19.16	77.35	999.00	-2.75	999.00	-0.67	0.00
20 7 15 11 178.30	10.17 4.7		999.00 174.90	9.82	5.53	78.10		5.24	23.66	80.35	999.00	-2.71	999.00	-0.28	0.00
20 7 15 12 190.80	10.32 8.2		999.00 187.60	9.92	9.95	80.20		6.07	22.50	82.75	999.00	-3.02	999.00	-0.67	0.00
20 7 15 13 163.60	8.03 18.0		999.00 164.20	7.60	20.34	81.67		4.40	47.86	84.35	999.00	-3.30	999.00	-0.80	0.00
20 7 15 14 178.20	8.51 16.3		999.00 174.20	8.09	16.98	82.75		4.99	30.30	85.07	999.00	-2.88	999.00	-0.77	0.00
20 7 15 15 174.30	7.93 16.3		999.00 175.30	6.75	26.33	83.72		3.78	33.79	86.10	999.00	-3.07	999.00	-0.96	0.00
20 7 15 16 141.00	11.53 10.1		999.00 135.40	11.17	10.61	84.54		6.24	19.67	86.40	999.00	-2.11	999.00	-1.04	0.00
20 7 15 17 99.80	15.69 8.9		999.00 92.80	15.24	7.97	83.44	96.60	9.15	17.74	84.80	999.00	-1.55	999.00	-1.01	0.00
20 7 15 18 93.50	19.13 4.7		999.00 88.70	17.27	6.33	80.74	97.30	8.40	15.73	82.28	999.00	-2.16	999.00	-1.34	0.00
20 7 15 19 99.90	18.57 3.9		999.00 94.50	17.25	5.35	80.74		8.30	16.46		999.00		999.00	-1.24	0.00
					4.64	79.30				80.63			999.00	-0.77	0.00
20 7 15 21 100.70	16.62 4.3			15.71	4.44	78.17			13.65	78.82			999.00	-0.38	0.00
20 7 15 22 127.80			999.00 114.70	12.45		999.00		5.35	12.12		999.00		999.00	0.61	0.00
20 7 15 23 147.20			999.00 142.00	15.30		999.00		4.68	16.31		999.00		999.00	0.99	0.00
20 7 15 24 148.60	18.22 3.1		999.00 144.60	14.75	4.24			4.40	21.02		999.00		999.00	0.28	0.00
20 7 16 1 146.80	19.64 2.7		999.00 142.10	15.92	3.98	78.95		5.33	18.97		999.00		999.00	0.16	0.00
20 7 16 2 152.70	19.89 3.0		999.00 147.50	15.89	4.52	78.13		5.70	19.72		999.00		999.00	-0.14	0.00
20 7 16 3 152.00			999.00 147.00	15.57		999.00		5.96	20.09	999.00			999.00	-0.32	0.00
20 7 16 4 155.40	16.75 2.9	9 77.49	999.00 151.80	13.63	4.70	77.58	159.10	4.84	18.86	77.93	999.00	-0.41	999.00	-0.38	0.00

20	7 16 5	159.40	16.36	3.34	77.11	999.00	154.00	13.25	4.73	77.15	160.00	4.22	21.56	77.25	999.00	0.21	999.00	0.27	0.00
20	7 16 6	256.90	4.29	56.16	76.29	999.00	271.80	4.31	53.89	76.47	357.30	3.07	75.50	75.90	999.00	0.62	999.00	1.04	0.00
20	7 16 7	23.29	4.95	41.52	75.74	999.00	11.69	4.87	38.02	76.01	18.90	3.30	52.09	75.28	999.00	0.03	999.00	0.19	0.00
20	7 16 8	121.80	9.83	18.51	76.44	999.00	113.40	9.00	19.56	76.77	115.00	4.63	24.83	76.63	999.00	-0.40	999.00	-0.26	0.00
20	7 16 9		13.54	3.49	75.97	999.00	171.00	11.21	4.55		186.00	4.26	21.42	76.88	999.00	-0.65	999.00	-0.37	0.00
20	7 16 10		10.68	7.18	76.44	999.00	176.40	9.68	7.53		186.10	5.47	18.82	77.57	999.00	-1.57	999.00	-0.80	0.00
	7 16 11		8.01	10.92	77.02	999.00	208.40	7.11	12.34		230.50	4.89	15.46	78.65	999.00	-1.99	999.00	-1.13	0.02
	7 16 12		17.02	6.51	79.15	999.00	213.40	15.39	7.95	79.55		9.94	13.14	80.98	999.00	-1.74	999.00	-0.85	0.01
	7 16 12			5.70	77.15	999.00	201.60				208.60		14.65				999.00		0.00
			15.63					14.01	7.66			7.99		79.13		-1.98		-1.54	
	7 16 14		20.94	8.82	78.87	999.00	234.70	19.74	9.20		240.10	13.94	12.91	81.05	999.00	-1.42	999.00	0.00	0.00
	7 16 15		16.08	6.97	75.94	999.00	262.40	15.13	7.53		263.50	10.17	12.51	77.93	999.00	-2.32	999.00	-0.18	0.00
	7 16 16		16.95	6.60	76.30	999.00	271.00	16.49	7.32		274.00	11.30	12.71	78.53	999.00	-2.35	999.00	-1.61	0.00
	7 16 17		9.48	15.82	75.86	999.00	276.90	8.71	14.85		281.10	5.71	17.60	76.97	999.00	-1.11	999.00	-1.15	0.00
	7 16 18		8.50	8.04	76.25	999.00	286.30	7.88	9.21		286.60	5.07	14.35	77.70	999.00	-1.68	999.00	-1.46	0.00
20	7 16 19	299.90	12.55	5.32	77.24	999.00	297.30	11.87	6.31	77.68	306.70	7.36	13.11	79.35	999.00	-2.05	999.00	-1.57	0.00
20	7 16 20	312.60	13.95	3.74	77.04	999.00	309.60	13.28	4.48	77.47	314.00	9.27	10.02	78.88	999.00	-1.66	999.00	-1.23	0.00
20	7 16 21	307.00	13.49	4.69	76.45	999.00	304.00	12.58	5.27	76.85	310.10	7.83	10.86	77.90	999.00	-1.31	999.00	-0.93	0.00
20	7 16 22	302.40	10.88	3.89	76.02	999.00	300.00	10.27	4.73	76.41	304.50	5.51	12.12	77.25	999.00	-1.07	999.00	-0.62	0.00
20	7 16 23	294.20	10.78	3.05	75.40	999.00	288.30	9.31	3.21	75.77	268.80	3.90	6.72	75.80	999.00	-0.01	999.00	0.40	0.00
20	7 16 24	295.40	12.58	2.10	74.83	999.00	291.30	12.05	2.33	75.36	280.10	5.07	6.42	74.50	999.00	0.55	999.00	1.09	0.00
20	7 17 1	313.60	12.33	3.80	999.00	999.00	308.00	10.63	5.36	999.00	278.00	4.02	17.54	73.73	999.00	0.57	999.00	1.20	0.00
20	7 17 2		9.95	4.01	73.78	999.00	308.00	8.95	5.06		267.50	3.63	10.47	73.18	999.00	0.45	999.00	1.20	0.00
20	7 17 3		7.22	15.24	73.15	999.00	249.70	6.84	16.15		216.60	4.36	21.28	71.95	999.00	1.23	999.00	1.19	0.00
	7 17 4		9.88	6.74	73.15	999.00	241.90	9.33	6.95		214.00	4.72	14.47	71.95	999.00	1.20	999.00	1.42	0.00
20	7 17 5		10.18	5.29	71.30	999.00	254.30	10.94	5.38		243.30	5.38	9.14	69.99	999.00	1.05	999.00	1.48	0.00
20		261.70	10.85	1.46	70.78	999.00	244.30	9.80	3.25		245.10	4.96	8.28	69.72	999.00	0.59	999.00	-0.13	0.00
	7 17 7			1.76	69.75	999.00	250.20		3.65		245.10	6.75	8.76	69.24	999.00		999.00	-0.13	0.00
			11.77					11.06								0.16	999.00		
20	7 17 8		9.41	7.74	68.78	999.00	238.60	7.74	7.95		240.20	5.34	11.65	69.74	999.00	-1.59		-1.03	0.00
20	7 17 9		7.65	7.52	69.02	999.00	261.60	7.18	7.99		263.10	5.67	13.79	71.38	999.00	-2.68	999.00	-1.76	0.00
	7 17 10		5.86	15.58	70.80	999.00	262.20	5.96	14.14		262.80	5.35	15.64	73.65	999.00	-2.78	999.00	-1.85	0.00
	7 17 11		5.15	18.12	70.80	999.00	297.10	5.32	22.97		305.90	4.23	34.75	73.65	999.00	-3.13	999.00	-2.35	0.00
	7 17 12		7.19	18.79	75.28	999.00	302.60	7.01	17.46		309.10	5.88	20.55	78.52	999.00	-3.34	999.00	-2.22	0.00
	7 17 13		7.81	15.34	77.10	999.00	299.50	7.95	14.39	77.52	305.20	6.23	23.67	80.30	999.00	-3.55	999.00	-2.39	0.00
20	7 17 14	337.60	6.58	17.73	77.40	999.00	337.60	6.55	18.05	77.62	347.30	5.81	22.41	81.13	999.00	-3.85	999.00	-0.87	0.00
20	7 17 15	355.90	7.49	13.27	77.98	999.00	2.99	7.56	13.70	78.42	24.89	7.58	17.32	81.65	999.00	-3.45	999.00	-0.30	0.00
20	7 17 16	48.65	4.22	38.55	79.28	999.00	42.80	4.00	35.70	79.72	41.79	5.13	34.38	82.15	999.00	-2.81	999.00	-0.85	0.00
20	7 17 17	95.30	4.78	25.29	80.10	999.00	89.60	5.14	21.94	80.57	100.90	4.85	33.00	83.30	999.00	-2.85	999.00	-1.31	0.00
20	7 17 18	42.04	3.46	14.28	80.10	999.00	48.11	3.59	13.86	80.57	70.20	4.95	16.88	83.30	999.00	-1.34	999.00	-0.14	0.00
20	7 17 19	70.20	4.89	8.44	80.86	999.00	69.60	5.50	9.17	81.17	73.90	4.97	13.06	82.55	999.00	-1.99	999.00	-1.09	0.00
20	7 17 20	66.32	5.40	5.41	80.53	999.00	62.65	5.84	4.54	80.77	70.90	4.60	11.80	82.18	999.00	-1.38	999.00	-0.59	0.00
20	7 17 21	109.70	2.76	12.60	80.76	999.00	93.10	4.81	7.16	80.56	103.60	2.58	9.52	80.63	999.00	0.65	999.00	0.84	0.00
	7 17 22	131.60	5.70	4.42	80.39	999.00	115.20	8.05	2.42	80.26	120.80	4.70	7.01	78.98	999.00	1.46	999.00	1.08	0.00
	7 17 23		9.18	2.50	999.00	999.00	129.80	11.71	1.96		141.10	4.18	12.99		999.00		999.00	1.72	0.00
	7 17 24		8.24	6.51		999.00		9.59	5.01		136.50	2.77			999.00		999.00	2.67	0.00
	7 18 1		6.76	7.26		999.00		7.42	8.13		189.30	2.33	13.71		999.00		999.00	4.01	0.00
	7 18 2		6.22	9.27		999.00		7.50	4.58		180.30	4.23	9.37		999.00		999.00	3.94	0.00
	7 18 3		4.53	6.10		999.00		7.63	4.01		193.10	3.04	13.49		999.00		999.00	5.34	0.00
	7 18 4		9.85	1.33		999.00		12.82	1.82		190.40	5.99	9.76		999.00		999.00	4.40	0.00
	7 18 5		9.81	1.99		999.00		12.24	4.24		196.40	3.48	11.13		999.00		999.00	4.53	0.00
	7 18 6		15.87	1.27		999.00		12.80	3.24		222.40	4.24	16.85		999.00		999.00	2.41	0.00
	7 18 7		14.11	3.13		999.00		13.01	3.06		197.60	4.60	9.47		999.00		999.00	4.95	0.00
20	7 18 8	230.50	16.53	1.77	75.14	999.00	217.00	12.69	3.26	73.39	200.50	5.25	11.89	70.65	999.00	2.99	999.00	1.10	0.00

	7 18 9		12.52	5.74		999.00		10.54	7.38		216.20	6.88	14.96		999.00		999.00	-1.10	0.00
	7 18 10		13.03	5.75	75.66	999.00	206.50	12.32	8.15		215.10	8.07	15.17	78.43		-2.79	999.00	-1.50	0.00
	7 18 11		14.73	6.68	78.39	999.00	218.10	14.10	8.21		227.90	11.14	11.97	81.15	999.00	-2.77		-1.72	0.00
	7 18 12		15.83	9.55	80.75	999.00	212.30	15.16	11.17		219.30	10.49	14.97	83.75	999.00	-3.05	999.00	-1.90	0.00
20	7 18 13	216.40	14.72	12.38	82.51	999.00	215.30	14.09	13.46	82.99	226.00	9.64	18.75	85.63	999.00	-3.27	999.00	-1.95	0.00
20	7 18 14	207.90	14.39	8.09	84.10	999.00	207.30	13.22	9.56	84.61	218.00	9.19	16.14	87.32	999.00	-3.33	999.00	-1.85	0.00
20	7 18 15	213.70	12.10	9.31	85.66	999.00	212.00	10.92	10.78	86.14	220.80	7.72	19.92	88.95	999.00	-3.36	999.00	-1.90	0.00
20	7 18 16	227.50	14.14	9.63	87.08	999.00	226.70	13.59	8.88	87.56	235.80	9.78	15.11	90.22	999.00	-2.98	999.00	-1.64	0.00
20	7 18 17	228.50	16.83	6.10	999.00	999.00	227.40	15.98	7.70	999.00	236.50	11.71	13.06	90.50	999.00	-2.55	999.00	-1.45	0.00
20	7 18 18	219.60	14.39	4.27	88.42	999.00	219.60	13.93	4.39	88.88	228.10	9.58	11.32	90.95	999.00	-2.36	999.00	-1.20	0.00
	7 18 19		12.77	6.06	88.73	999.00	207.00	11.72	6.23		215.30	6.91	15.15	91.10	999.00	-2.31	999.00	-0.97	0.00
	7 18 20		14.40	3.85	88.31	999.00	209.30	12.71	5.32		212.40	6.13	12.94	89.52	999.00	-0.50	999.00	0.02	0.00
	7 18 21		16.89	2.60	87.48	999.00	204.80	14.29	3.51		203.00	5.07	13.27	87.32	999.00	0.22	999.00	0.39	0.00
	7 18 22		20.77	3.48	86.25	999.00	200.80	17.92	4.64		203.60	7.49	14.90	85.88	999.00	0.20	999.00	0.17	0.00
	7 18 23		19.09	2.88	84.60	999.00	211.70	15.88	3.57		216.00	5.96	14.23	84.10	999.00	0.94	999.00	0.99	0.00
	7 18 24		18.94	1.92	82.95	999.00	212.40	15.65	2.62		210.40	5.27	13.53	82.03	999.00	0.96	999.00	1.14	0.00
	7 19 1		17.76	2.19	81.33	999.00	203.00	14.56	3.53		197.80	5.13	13.33	80.60	999.00	0.56	999.00	0.64	0.00
	7 19 2		18.88	2.19	80.05	999.00	198.60	15.13	3.19		191.40	5.44	12.58	79.20	999.00	0.97	999.00	0.88	0.00
	7 19 2		21.28	2.40	79.18	999.00	200.30	16.94	3.86		207.70	6.18	14.24	78.32	999.00	0.75	999.00	0.48	0.00
	7 19 4		19.72	2.42	78.28	999.00	200.30	16.00	3.77		215.40	6.07	14.24	77.57	999.00	0.73	999.00	0.40	0.00
	7 19 4						207.50												
			20.37	3.02	78.15	999.00		16.92	4.74		209.10	5.98	14.38	77.35	999.00	0.58	999.00	0.41	0.00
	7 19 6		17.68	2.92	77.46		197.40	14.31	3.93		198.50	5.25	13.72	77.18	999.00	0.03	999.00	-0.09	0.00
	7 19 7		20.81	4.44	76.87	999.00	195.10	17.25	5.58		199.00	7.66	14.24		999.00	-0.34	999.00	-0.30	0.00
	7 19 8		21.94	5.27	76.76	999.00	199.00	19.14	6.51		207.80	10.40	15.29	77.97	999.00	-1.52	999.00	-1.00	0.00
	7 19 9		22.21	5.13	78.27	999.00	213.00	20.79	6.29		221.20	13.65	12.21	80.25	999.00	-2.18	999.00	-1.27	0.00
	7 19 10		22.01	5.93	78.27	999.00	221.40	21.00	6.85		230.60	15.24	12.11	80.25	999.00	-2.43	999.00	-1.50	0.00
	7 19 11		19.37	5.95	82.29	999.00	217.30	18.71	6.30		222.00	12.21	12.55	84.75	999.00	-2.31	999.00	-1.47	0.00
	7 19 12		17.37	6.88	83.64	999.00	220.80	16.24	7.80		225.70	11.30	13.46	85.88	999.00	-1.75	999.00	-0.93	0.00
	7 19 13		18.56	6.49	83.88	999.00	214.80	17.09	7.00		221.70	10.88	12.62	85.17	999.00	-1.64	999.00	-0.92	0.01
20	7 19 14	213.50	19.19	5.88	83.35	999.00	212.20	17.61	7.37	83.76	218.40	11.29	13.03	85.07	999.00	-2.01	999.00	-1.55	0.00
20	7 19 15	209.70	23.64	4.94	83.77	999.00	207.20	22.41	6.24	84.22	217.10	13.63	14.25	85.80	999.00	-2.06	999.00	-1.09	0.00
20	7 19 16	214.80	25.41	5.10	84.36	999.00	212.50	24.11	6.68	84.82	221.70	15.54	13.22	85.90	999.00	-1.65	999.00	-1.57	0.17
20	7 19 17	266.00	22.69	6.30	74.30	999.00	262.20	18.18	8.31	74.74	261.20	8.73	15.65	75.25	999.00	0.06	999.00	0.32	0.01
20	7 19 18	197.80	17.31	5.26	70.95	999.00	186.50	15.38	5.00	71.57	189.50	6.49	16.80	71.85	999.00	-1.04	999.00	-0.04	0.00
20	7 19 19	244.20	18.66	5.59	72.59	999.00	244.50	15.68	6.83	73.32	255.20	8.61	11.79	73.95	999.00	-1.33	999.00	-0.10	0.00
20	7 19 20	246.60	19.00	5.10	74.73	999.00	245.60	17.18	6.82	75.33	250.80	10.02	11.76	75.88	999.00	-0.94	999.00	-0.46	0.00
20	7 19 21	224.20	13.89	4.61	74.63	999.00	219.10	12.44	5.04	75.47	212.60	6.72	12.15	76.07	999.00	-1.35	999.00	-1.33	0.00
20	7 19 22	213.80	20.37	3.48	74.91	999.00	211.60	17.83	4.43	74.85	216.90	9.21	11.53	75.10	999.00	-0.44	999.00	-0.47	0.00
	7 19 23		16.50	4.57	999.00	999.00	232.40	14.12	5.79	999.00	235.40	9.38	10.04	74.53	999.00	-1.00	999.00	-0.74	0.00
	7 19 24		17.16	4.84	73.93	999.00	236.20	14.65	5.58		237.70	9.72	7.88	74.85	999.00	-0.78	999.00	-0.64	0.00
	7 20 1		18.84	4.20	73.84	999.00	242.80	16.16	5.86	74.14		8.67	10.19	74.60	999.00	-0.41	999.00	-0.22	0.00
20			17.69	2.73	72.75	999.00	233.20	15.01	4.10		237.10	9.21	8.73	73.32	999.00	-0.47	999.00	-0.43	0.00
	7 20 3		17.85	3.58		999.00		14.92	4.59		251.20	7.38	10.95		999.00		999.00	-0.17	0.00
	7 20 4		16.74	4.62		999.00		14.27	6.08		242.50	8.79			999.00		999.00	-0.75	0.00
	7 20 5		18.27			999.00		15.02	5.45	999.00		8.00	10.62		999.00		999.00	-0.37	0.00
	7 20 6		16.51	4.81		999.00		14.05	6.45		251.90	8.24	10.02		999.00		999.00	-0.61	0.00
	7 20 7		13.90	2.11		999.00		11.54	3.26		249.70	5.36	9.44		999.00		999.00	0.03	0.00
	7 20 7		9.86								254.80						999.00	-1.06	
	7 20 8			8.32 12.32		999.00		7.09	11.77			3.75	19.85 15.15		999.00 999.00		999.00		0.00
			6.41					5.83	12.48		264.20	4.36						-1.66 -1.30	0.00
	7 20 10		5.56	16.26		999.00		5.51	17.54		258.80	4.39	20.22		999.00		999.00	-1.39	0.00
	7 20 11		8.73	11.74		999.00		8.40	11.93		239.80	7.23	19.11		999.00		999.00	-1.48	0.00
20	7 20 12	∠34.90	9.42	9.19	/6.48	999.00	Z3Z.5U	9.14	9.32	16.94	234.90	7.54	15.30	19.28	999.00	-∠.6⊥	999.00	-1.33	0.00

	7 20 13		12.14	12.16		999.00	232.70	11.72	13.90		238.20	8.76	18.14		999.00	-3.11	999.00	-1.64	0.00
20	7 20 14	250.00	14.52	10.10	79.54	999.00	249.60	13.68	11.20	80.04	257.40	10.64	15.97	82.15	999.00	-2.99	999.00	-1.64	0.00
20	7 20 15	242.80	16.39	7.80	79.72	999.00	241.70	15.91	9.08	80.19	249.50	11.25	14.09	81.95	999.00	-1.97	999.00	-0.99	0.00
20	7 20 16	248.20	16.55	5.18	79.38	999.00	245.70	15.74	6.02	79.83	252.30	12.00	12.38	81.40	999.00	-2.27	999.00	-1.45	0.00
20	7 20 17	250.50	14.10	8.36	80.99	999.00	249.90	13.60	9.02	81.49	254.20	9.27	12.91	83.55	999.00	-2.53	999.00	-1.65	0.00
20	7 20 18	243.90	13.19	7.86	81.30	999.00	243.10	12.39	9.37	81.78	249.90	8.67	15.17	83.60	999.00	-2.19	999.00	-1.00	0.00
20	7 20 19	234.80	13.80	3.59	81.42	999.00	233.60	13.22	4.10	81.85	240.60	9.20	9.68	83.18	999.00	-1.43	999.00	-0.61	0.00
20	7 20 20	243.30	10.81	3.63	81.04	999.00	240.20	9.81	4.64		244.00	5.77	8.21	82.25	999.00	-0.82	999.00	-0.23	0.00
	7 20 21		10.69	5.56	80.35	999.00	268.70	9.91	3.36		259.30	4.67	6.59	80.45	999.00	0.27	999.00	0.72	0.00
	7 20 22		11.41	2.00	79.80	999.00	277.80	9.54	3.15		238.40	3.06	31.63	78.53	999.00		999.00	1.62	0.00
	7 20 23		6.62	6.90	77.87	999.00	239.50	6.82	6.49		193.90	3.24	12.38	76.70	999.00	1.32	999.00	1.90	0.00
	7 20 24		10.11	5.79	77.17	999.00	250.60	10.22	4.39		230.70	4.12	15.99	75.52	999.00	1.64	999.00	2.01	0.00
	7 21 1		10.62	2.68	77.17	999.00	298.70	10.32	3.89		265.50	4.89	5.79	75.52	999.00	2.53	999.00	3.20	0.00
	7 21 2		11.75	6.92	75.57	999.00	322.40	10.75	7.72		280.60	4.06	8.01	73.05	999.00	2.49	999.00	3.09	0.00
	7 21 2		12.33	5.36	75.13	999.00	333.10	11.96	6.35	75.84				74.48	999.00	-0.14	999.00	-0.15	0.00
												6.48	10.47						
	7 21 4		8.41	14.15	74.44	999.00	352.80	8.09	12.89	74.85	339.70	4.90	9.74	75.20	999.00	-0.85	999.00	-0.65	0.00
	7 21 5	36.15	7.72	10.33	999.00	999.00	32.52	6.99	11.41	999.00	30.41	6.96	12.39	74.70	999.00	-1.39	999.00	-1.03	0.00
	7 21 6	57.93	9.50	5.33	72.41	999.00	54.23	9.48	5.63	72.77	61.57	6.09	12.30	73.67	999.00	-1.11	999.00	-0.77	0.00
20	7 21 7	97.90	6.37	7.28	72.08	999.00	95.20	6.30	9.34	72.44	106.00	2.77	12.82	72.90	999.00	-0.80	999.00	-0.47	0.00
	7 21 8	87.20	1.82	32.33	72.76	999.00	36.51	1.11	71.40	73.10	235.80	1.23	73.30	73.90	999.00	-1.56	999.00	-0.30	0.00
	7 21 9	322.60	3.92	16.79	73.80	999.00	307.30	4.02	19.95	74.21	285.50	3.63	25.80	75.88	999.00	-1.66	999.00	-1.28	0.00
	7 21 10	9.52	6.05	17.06	73.35	999.00	6.19	6.11	14.42	73.82	14.00	6.14	14.88	75.60	999.00	-2.39	999.00	-0.55	0.00
20	7 21 11	34.58	6.55	10.35	71.66	999.00	29.38	5.97	11.09	72.06	21.39	7.15	11.49	73.73	999.00	-1.93	999.00	-0.99	0.00
	7 21 12	11.61	6.08	13.69	71.90	999.00	8.17	5.75	11.99	72.36	16.25	5.29	18.94	74.13	999.00	-2.62	999.00	-0.43	0.00
20	7 21 13	12.82	5.48	19.46	72.38	999.00	6.56	5.81	13.28	72.80	14.25	5.92	13.40	75.40	999.00	-2.97	999.00	-0.30	0.00
20	7 21 14	20.22	4.04	28.26	74.02	999.00	10.92	4.15	24.07	74.46	10.21	4.48	18.03	77.30	999.00	-3.30	999.00	0.28	0.00
20	7 21 15	24.91	4.81	13.01	74.53	999.00	18.82	5.16	14.37	75.02	24.94	5.75	22.87	77.38	999.00	-2.82	999.00	0.11	0.00
20	7 21 16	21.08	7.16	11.27	74.65	999.00	17.50	6.81	9.53	75.17	29.07	7.18	15.39	77.80	999.00	-3.13	999.00	0.00	0.00
20	7 21 17	43.41	6.29	12.28	74.65	999.00	44.43	5.73	11.12	75.17	48.28	6.30	15.37	77.80	999.00	-3.14	999.00	-0.87	0.00
20	7 21 18	43.99	6.90	9.75	76.17	999.00	41.17	6.79	9.64	76.70	45.43	7.26	12.37	78.68	999.00	-2.07	999.00	-0.76	0.00
20	7 21 19	64.81	9.34	3.52	76.23	999.00	62.34	9.22	3.70	76.63	69.98	5.81	11.63	77.90	999.00	-1.22	999.00	-0.99	0.00
20	7 21 20	85.70	16.56	4.18	76.64	999.00	83.00	15.86	4.20	76.99	95.70	7.09	14.62	77.72	999.00	-0.79	999.00	-0.42	0.00
	7 21 21	93.70	12.02	7.27	999.00	999.00	89.80	10.80	8.83	999.00	97.10	5.21	16.83	77.43	999.00	-1.00	999.00	-0.65	0.00
	7 21 22		9.87	7.46	76.40	999.00	99.50	9.31	8.16	76.76	109.20	4.22	13.52	77.18	999.00	-0.74	999.00	-0.41	0.00
	7 21 23		9.04	13.36	999.00	999.00	145.30	8.66	12.39	999.00	166.40	3.09	24.28	76.33	999.00	-0.43	999.00	-0.03	0.00
	7 21 24		9.69	9.82	75.43	999.00	123.80	8.54	11.45		122.90	3.14	13.66	75.60	999.00	-0.08	999.00	0.33	0.00
	7 22 1		9.30	4.53	74.93	999.00	156.10	8.68	4.93		185.80	2.88	27.02	74.55	999.00	0.57	999.00	0.39	0.00
	7 22 2		16.80	3.57	72.01	999.00	207.70	14.82	4.96		216.70	8.69	11.15	72.50	999.00	-1.26	999.00	-1.01	0.05
20	7 22 3		12.19	4.88	69.38	999.00	203.10	9.48	6.80		206.40	4.48	16.57	70.07	999.00	-0.27	999.00	-0.47	0.03
	7 22 4					999.00			5.89		199.70								0.03
		177.70	13.71 12.23	4.40	68.74 69.02		188.60 174.10	11.65			184.30	6.33	14.06	69.33 69.72	999.00 999.00	-0.74 -0.55	999.00 999.00	-0.49	0.02
				3.36		999.00		10.01	4.45			4.34	17.56					-0.81	
20		190.40	15.11	3.27	69.17	999.00	184.60	12.61	5.09	69.45	195.20	5.96	14.40	69.75	999.00	-0.57	999.00	-0.80	0.00
	7 22 7		15.32	3.32	69.00	999.00		13.01	5.27		199.70	5.65	14.74		999.00		999.00	-0.71	0.00
	7 22 8		16.19	5.30		999.00		14.05	6.70		198.90	6.76	15.49		999.00		999.00	-0.90	0.00
	7 22 9		16.34	6.38		999.00		14.22	7.35		203.70	7.43	16.91		999.00		999.00	-0.98	0.00
	7 22 10		15.51	6.22		999.00		13.91	7.78		209.00	8.72	15.54		999.00		999.00	-1.33	0.00
	7 22 11		16.26	5.75		999.00	208.70	15.25	6.86		216.40	9.57	13.59		999.00		999.00	-0.74	0.00
	7 22 12		18.91	5.50		999.00		18.14	6.50		225.80	12.86	13.92		999.00		999.00	-2.07	0.00
20	7 22 13	210.70	21.25	6.27	74.99	999.00	206.70	19.83	7.55	75.47	215.30	11.65	15.51	78.00	999.00	-2.89	999.00	-1.92	0.00
20	7 22 14	217.20	23.67	5.15		999.00		22.75	5.73		221.30	14.21	12.46	79.15	999.00	-2.59	999.00	-1.75	0.00
20	7 22 15	217.80	19.71	5.82	77.44	999.00	215.50	18.57	7.01	77.90	223.70	12.47	13.86	80.02	999.00	-2.26	999.00	-1.37	0.00
20	7 22 16	235.60	15.87	13.99	76.53	999.00	239.30	13.94	14.86	77.01	254.00	8.04	15.45	76.50	999.00	0.39	999.00	0.72	0.00

0.0	7 00 17	010 60	00 16	F 0.4	77 70	000 00	016 40	10 50	- 07	70 16	004 10	11 76	10 10	70.00	000 00	1 41	000 00	0 47	0 00
	7 22 17		20.16	5.04		999.00		18.59	5.97		224.10	11.76	12.10		999.00		999.00	-0.47	0.00
	7 22 18	224.90	15.12	4.38	78.53	999.00	223.80	14.05	5.10	79.06	231.40	9.56	10.97	79.30	999.00	-0.06		-0.74	0.00
	7 22 19	235.90	10.31	7.54	78.20	999.00	233.80	9.61	7.86		240.00	6.90	11.95	79.60	999.00		999.00	-0.92	0.00
	7 22 20		12.79	4.04	79.02	999.00	221.80	11.97	4.25		224.80	7.47	10.08	80.70	999.00	-1.78	999.00	-0.70	0.00
	7 22 21	232.50	9.04	4.42	78.81	999.00	228.50	8.20	4.38		224.20	4.27	9.36	79.95	999.00	-0.65	999.00	-0.22	0.00
	7 22 22 7 22 23	222.20 204.80	9.89	4.92 2.89	77.81 77.24	999.00 999.00	217.20 194.10	8.47	5.70 2.90		192.20 192.60	3.52 4.31	10.03 13.11	78.00 76.73	999.00 999.00	0.14	999.00 999.00	0.45 0.72	0.00
	7 22 23	213.90	11.36 14.12	3.31	999.00	999.00	207.00	10.52 11.39	2.90	999.00	216.10	4.02	11.94	75.37	999.00	0.88	999.00		0.00
	7 22 24		12.15	4.04	999.00	999.00	207.00	9.83	4.25		190.00	4.02	9.93	75.10	999.00		999.00	0.41 0.24	0.00
	7 23 2		9.56	10.57	75.83	999.00	195.20	8.86	10.04		187.50	4.43	12.98	74.93	999.00	-0.04	999.00	0.24	0.00
	7 23 2	223.50	15.02	1.29	74.22	999.00	218.10	12.91	2.53	74.16	212.50	5.34	10.89	73.75	999.00	0.81	999.00	0.19	0.00
	7 23 4	239.90	13.45	9.11	73.98	999.00	233.20	12.84	10.01		233.50	5.11	19.47	73.75	999.00	0.97		1.38	0.00
	7 23 5	252.10	13.10	6.89	73.29	999.00	243.60	11.25	6.47		241.00	7.18	9.79	73.23	999.00	-0.73	999.00	-0.64	0.00
	7 23 6	268.70	4.37	26.59	72.24	999.00	232.40	3.12	27.72		184.70	2.33	38.33	72.60	999.00	-0.17	999.00	-0.05	0.00
	7 23 7		3.40	70.60	73.20	999.00	164.70	5.22	61.48		187.10	4.46	20.90	71.80	999.00	1.42	999.00	1.24	0.00
	7 23 8		5.10	7.27	72.25	999.00	213.30	6.49	4.69	72.12		4.61	12.45	71.95	999.00		999.00	-0.41	0.00
	7 23 9	222.50	6.08	5.34	72.13	999.00	223.60	5.58	6.61	72.13	230.40	4.41	15.12	73.68	999.00	-2.11	999.00	-1.33	0.00
	7 23 10	298.30	2.29	33.60	73.95	999.00	302.90	2.24	35.48	74.35	317.60	1.68	59.43	76.93	999.00	-3.37		-1.37	0.00
	7 23 11		6.72	7.37	74.88	999.00	337.40	6.91	6.92	75.33	348.50	6.29	11.61	77.57	999.00		999.00	-0.98	0.00
	7 23 12	21.57	9.57	7.94	75.11	999.00	19.21	8.18	9.36	75.59	21.00	7.79	14.11	77.53	999.00	-2.22	999.00	-0.69	0.00
	7 23 13	26.53	8.62	10.21	74.85	999.00	22.63	7.73	10.39	75.29	29.42	7.43	12.86	76.82	999.00		999.00	-0.91	0.00
	7 23 14	31.75	9.04	11.81	75.16	999.00	26.68	8.33	12.72	75.62	24.90	8.42	13.68	77.53	999.00		999.00	-0.82	0.00
	7 23 15	40.33	10.35	9.59	75.58	999.00	39.59	9.21	9.34	76.12	54.86	9.41	14.61	78.18	999.00		999.00	-1.35	0.00
	7 23 16	57.34	10.97	8.10	999.00	999.00	53.28	10.62	9.91	999.00	60.74	9.34	14.93	79.43	999.00	-2.82	999.00	-1.36	0.00
20	7 23 17	68.47	11.29	7.55	77.22	999.00	65.62	11.20	8.96	77.75	70.80	8.71	14.78	80.10	999.00	-2.97	999.00	-1.67	0.00
20	7 23 18	59.60	10.92	8.45	77.39	999.00	57.62	10.74	10.65	77.85	66.68	9.01	14.95	79.93	999.00	-2.41	999.00	-1.36	0.00
20	7 23 19	52.76	11.01	6.64	77.42	999.00	50.44	10.64	8.66	77.97	61.32	9.13	14.34	79.77	999.00	-2.36	999.00	-1.06	0.00
20	7 23 20	55.90	14.22	5.67	77.60	999.00	52.25	13.28	6.88	78.14	64.09	8.83	13.89	79.73	999.00	-1.88	999.00	-0.87	0.00
20	7 23 21	48.66	15.13	5.20	77.60	999.00	45.20	14.22	6.45	78.14	56.92	10.61	11.45	79.73	999.00	-1.28	999.00	-0.93	0.00
20	7 23 22	54.78	13.52	5.96	76.00	999.00	51.10	13.02	6.61	76.35	60.74	8.52	11.59	77.07	999.00	-0.91	999.00	-0.62	0.00
	7 23 23	52.16	14.24	6.39	75.35	999.00	48.86	13.17	6.61	75.70	58.97	9.34	11.59	76.25	999.00	-0.93	999.00	-0.66	0.00
	7 23 24	44.84	12.09	5.62	74.29	999.00	41.94	10.65	6.94	74.64	55.47	8.20	12.23	75.28	999.00	-1.03	999.00	-0.74	0.00
	7 24 1	45.61	9.77	8.03	72.84	999.00	43.12	8.74	8.23	73.19	59.72	6.59	12.29	73.82	999.00	-0.95		-0.70	0.00
	7 24 2	50.98	9.97	6.41	72.41	999.00	48.33	9.69	6.23	72.77	63.36	6.59	13.28	73.20	999.00	-0.77	999.00	-0.58	0.00
	7 24 3	31.39	10.34	8.53	71.83	999.00	28.84	8.88	9.74	72.19	34.94	8.11	13.27	72.75	999.00		999.00	-1.05	0.00
	7 24 4	28.58	9.65	10.15	71.26	999.00	24.50	8.36	11.06	71.64	28.70	7.37	11.81	72.60	999.00		999.00	-1.09	0.00
	7 24 5	23.79	13.05	3.36	70.19	999.00	20.36	11.26	5.02	70.56	31.60	9.39	9.44	71.57	999.00	-1.36	999.00	-1.17	0.00
	7 24 6	21.12	9.62	8.07	69.57	999.00	17.05	8.61	8.31	69.93	21.52	6.87	13.15	70.90	999.00	-1.30	999.00	-1.20	0.00
	7 24 7	23.24	12.19	5.38	69.60	999.00	19.87	10.69	6.49	69.96	26.78	8.95	9.94	70.98	999.00		999.00	-1.00	0.00
20		28.23	8.19	10.60	70.39	999.00	23.25	7.52	11.29	70.76	27.04	6.93	13.20	72.00	999.00	-1.72	999.00	-0.38	0.00
	7 24 9 7 24 10	19.54 14.18	8.70 8.45	8.56 14.33	71.36 71.57	999.00	16.87 10.17	7.83 7.84	9.80 14.06	71.75 71.93	31.55 20.85	6.66 7.19	13.47 16.79	73.77 74.48	999.00 999.00	-2.77 -3.13	999.00 999.00	-0.10 -0.25	0.00
	7 24 10		6.01	14.33		999.00	357.60	6.16	16.57	999.00	3.40	6.01	17.53		999.00		999.00	-0.23	0.00
			8.57	14.93		999.00		8.77	14.01	72.69	1.21			75.55			999.00		
	7 24 12 7 24 13	11.72	6.68	15.72		999.00	10.81	6.65	17.67	72.89	22.12		23.48		999.00		999.00	-0.46 -0.36	0.00
	7 24 13	14.86	5.96	17.89		999.00	8.96	5.57	15.88	73.92	15.00	5.20	23.40		999.00		999.00	-0.36	0.00
	7 24 14	25.92	6.32	15.15		999.00	28.26	6.13	16.40	75.02	33.91	6.14	26.74		999.00		999.00	-0.84	0.00
	7 24 15	18.16	8.58	11.68		999.00	15.54	7.96	11.54	75.85	23.61	7.08	17.29		999.00		999.00	-0.42	0.00
	7 24 10	20.13	8.80	9.10		999.00	15.57	8.13	9.41	76.97	22.31	8.10	12.74		999.00		999.00	-0.41	0.00
	7 24 17	38.98	6.78	10.13		999.00	40.22	6.28	8.70	77.72	43.81	6.45	16.85		999.00		999.00	-0.61	0.00
	7 24 19		6.05	14.97		999.00	27.14	5.63	16.35	78.25	25.29	5.48	19.65		999.00		999.00	-0.27	0.00
	7 24 20		3.38	20.68		999.00	43.42		17.95	78.36	74.30	2.85	39.56		999.00		999.00	0.15	0.00
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20	7 24 21	84.20	3.40	11.77	77.28	999.00	92.10	3.11	20.25	77.73	114.20	2.09	17.04	78.15	999.00	-0.93	999.00	-0.60	0.00
20	7 24 22	88.10	3.39	13.42	76.54	999.00	97.40	2.45	27.57	76.87	158.80	1.80	27.82	77.15	999.00	-0.32	999.00	-0.37	0.00
20	7 24 23	117.30	4.64	10.07	76.28	999.00	130.50	3.52	12.29	76.63	185.30	2.46	10.38	76.32	999.00	0.36	999.00	0.68	0.00
20	7 24 24	157.70	7.62	2.78	74.87	999.00	162.30	7.82	2.06	75.58	191.20	1.62	16.74	72.32	999.00	2.89	999.00	3.08	0.00
	7 25 1		5.16	2.02	74.49	999.00	143.80	6.43	2.64		171.60	2.10	13.37	71.53	999.00	2.06	999.00	2.30	0.00
	7 25 2		6.92	5.09	73.66	999.00	156.90	7.17	3.06		187.70	1.70	13.95	71.52	999.00	2.75	999.00	3.39	0.00
	7 25 3		4.33	5.99	73.40	999.00	160.10	4.33	8.79		295.20	1.52	38.40	69.75	999.00	3.75	999.00	4.25	0.00
		184.50	4.04	6.77	73.40	999.00	191.90	5.57	4.08		211.70	3.34	14.20	70.05	999.00	3.19	999.00	3.73	0.00
	7 25 5			10.24	72.51	999.00		2.95	10.72		270.00		18.43		999.00		999.00		0.00
			2.15				209.40					1.99		68.26		4.17		4.86	
	7 25 6	66.41	1.63	32.49		999.00	319.10	1.13	17.74		272.00	2.69	15.15	68.65	999.00	3.15	999.00	4.05	0.00
	7 25 7	61.54	2.48	3.08	72.74	999.00	50.92	1.48	4.99		216.20	1.70	7.34	69.28	999.00	3.02	999.00	4.26	0.00
20		275.30	1.98	20.30	72.30	999.00	224.50	3.32	10.24		199.10	3.79	15.05	68.23	999.00	3.31	999.00	3.26	0.00
20	7 25 9	206.00	6.14	5.18	71.54	999.00	201.40	6.34	6.89	70.62	212.00	4.46	15.88	71.22	999.00	-2.26	999.00	-1.04	0.00
20	7 25 10	198.30	3.56	15.00	71.49	999.00	209.00	4.05	12.64	71.74	240.40	4.42	15.14	74.28	999.00	-2.83	999.00	-0.66	0.00
20	7 25 11	110.30	2.83	44.64	71.49	999.00	99.50	2.80	55.84	71.74	171.00	2.32	37.83	74.28	999.00	-2.89	999.00	-0.26	0.00
20	7 25 12	93.10	5.74	17.61	76.39	999.00	92.10	5.85	20.52	76.94	94.90	4.95	29.78	79.15	999.00	-2.70	999.00	-1.17	0.00
20	7 25 13	84.50	5.93	14.57	76.92	999.00	76.90	5.94	17.50	77.43	79.20	4.87	21.83	79.80	999.00	-2.81	999.00	-1.23	0.00
20	7 25 14	19.36	6.16	17.76	78.36	999.00	16.62	6.08	20.30	78.91	21.91	5.74	33.97	81.55	999.00	-3.39	999.00	-0.28	0.00
	7 25 15	48.38	5.61	16.14	78.55	999.00	43.04	5.65	14.27	79.11	34.22	6.57	18.67	82.05	999.00	-3.32	999.00	-0.85	0.00
	7 25 16	86.60	6.44	11.35	78.89	999.00	84.10	6.50	9.73	79.39	100.30	5.19	21.46	81.70	999.00	-2.63	999.00	-1.41	0.00
	7 25 17	81.30	7.17	10.81	79.45	999.00	81.30	6.97	10.77	79.97	95.50	5.02	17.48	81.93	999.00	-2.40	999.00	-1.39	0.00
	7 25 18	64.43	8.45	6.11	79.81	999.00	63.62	8.60	7.00	80.18	70.30	6.18	16.14	82.03	999.00	-2.32	999.00	-1.34	0.00
	7 25 19	85.20	8.62	4.86	79.93	999.00	83.90	8.21	5.08	80.31	103.10	3.96	13.74	81.75	999.00	-1.45	999.00	-0.61	0.00
	7 25 20		8.50	2.80	79.54	999.00	109.30	7.87	4.08		113.30	3.95	11.35	80.65	999.00	-0.90	999.00	-0.06	0.00
	7 25 21		8.26		79.54	999.00			2.70		125.20	2.93	8.28				999.00		0.00
				2.04			117.20	7.63			133.00			80.05	999.00	0.03		0.39	
20	7 25 22		8.75	0.80	79.19	999.00	137.00	10.77	0.88			2.20	18.48	78.18	999.00	1.67	999.00	2.36	0.00
	7 25 23		12.24	1.18	79.26	999.00	143.50	12.46	1.47		171.40	2.63	14.98	77.05	999.00	2.90	999.00	2.93	0.00
	7 25 24		15.79	1.07	78.55	999.00	156.30	12.90	2.37		175.50	2.73	24.75	75.35	999.00	3.82	999.00	2.30	0.00
20	7 26 1		15.53	1.39	78.11	999.00	160.00	12.13	1.26		204.70	2.97	11.67	74.30	999.00	3.81	999.00	2.15	0.00
	7 26 2		16.73	1.85	77.17			12.33	3.56		194.90	3.16	13.25	73.53	999.00	3.29	999.00	1.92	0.00
20	7 26 3		18.93	0.86	77.37	999.00	180.30	14.84	2.69		201.10	4.62	10.03	72.53	999.00	5.02	999.00	2.24	0.00
20		189.00	20.40	0.67	77.37	999.00	189.90	13.70	1.43	75.11		3.12	9.66	72.53	999.00	5.01	999.00	1.99	0.00
20	7 26 5	196.30	17.34	1.63	75.71	999.00	197.50	12.12	2.46		214.60	3.30	14.43	70.80	999.00	3.33	999.00	1.83	0.00
20	7 26 6	189.00	20.42	0.78	999.00	999.00	192.00	14.62	1.11	999.00	196.00	4.59	11.45	70.13	999.00	4.41	999.00	2.39	0.00
20	7 26 7	203.60	15.75	2.83	999.00	999.00	209.70	12.01	3.96	999.00	219.10	4.72	9.36	70.13	999.00	1.49	999.00	1.01	0.00
20	7 26 8	207.60	16.01	2.19	71.13	999.00	209.50	12.20	3.57	70.58	208.70	5.25	11.43	69.93	999.00	0.62	999.00	0.20	0.00
20	7 26 9	219.00	9.83	7.37	71.45	999.00	204.40	7.97	7.68	70.76	209.70	5.37	13.51	72.22	999.00	-1.61	999.00	-1.30	0.00
20	7 26 10	243.90	7.59	10.00	73.55	999.00	234.50	7.20	8.76	73.58	228.80	6.27	11.30	76.02	999.00	-2.52	999.00	-1.12	0.00
20	7 26 11	254.80	8.10	12.06	77.19	999.00	252.90	7.84	14.45	77.52	260.50	6.27	18.68	79.70	999.00	-2.80	999.00	-1.91	0.00
	7 26 12		12.47	7.07	79.45	999.00	239.30	11.99	7.60	79.91	238.90	9.19	13.00	82.45	999.00	-3.09	999.00	-1.87	0.00
	7 26 13		12.51	8.83	80.88	999.00	239.60	11.97	9.09	81.35	246.70	9.07	15.01	83.95	999.00	-3.08	999.00	-1.79	0.00
	7 26 14		10.02	14.67	82.17	999.00	244.50	9.69	17.58	82.63	247.90	7.79	19.94	85.48	999.00	-3.40	999.00	-2.00	0.00
	7 26 15		11.83	10.18		999.00		11.66	9.07		236.50	9.10	12.93		999.00		999.00	-2.01	0.00
	7 26 16		12.09	9.56		999.00		11.32	9.60		241.80	8.93	15.44		999.00		999.00	-1.70	0.00
	7 26 17		11.12	12.95		999.00		10.76	12.94		251.50	7.89	19.07		999.00		999.00	-1.86	0.00
	7 26 18		11.93	8.42		999.00		11.55	9.18		245.40	8.40	13.75		999.00		999.00	-1.27	0.00
	7 26 19		13.87	5.85	87.76		211.50	12.80	7.60		220.30	7.66	13.63		999.00		999.00	-0.97	0.00
	7 26 20		17.50	3.80	86.88	999.00		15.34	6.22		217.30	8.38	13.83		999.00		999.00	-0.47	0.00
	7 26 21		18.20	2.78	85.44	999.00	208.20	16.06	3.73		212.00	7.59	13.36		999.00		999.00	0.21	0.00
	7 26 22		21.09	2.24	84.19	999.00	211.60	17.76	3.20		213.90	7.21	11.35		999.00		999.00	0.96	0.00
	7 26 23		20.93	2.94		999.00		17.40	3.84		205.90	6.31	13.36		999.00		999.00	0.98	0.00
20	7 26 24	208.00	22.07	2.75	81.14	999.00	202.30	18.21	3.34	81.05	203.90	6.66	13.98	80.32	999.00	0.79	999.00	0.58	0.00

20 7 27 1 210.80	22.15		80 999.00		17.70	4.44		210.70	6.97	13.61		999.00		999.00	0.38	0.00
20 7 27 2 214.90	21.11	2.76 79	80 999.00		17.75	4.23		214.00	7.87	13.36	79.18	999.00	0.11	999.00	0.05	0.00
20 7 27 3 215.80	21.38	3.25 78	48 999.00	210.40	17.68	4.65	78.47	214.80	7.83	14.54	78.30	999.00	0.16	999.00	0.16	0.00
20 7 27 4 218.30	22.67	5.22 78	18 999.00	214.10	19.37	7.44	78.27	219.80	9.33	13.53	78.28	999.00	-0.22	999.00	-0.28	0.00
20 7 27 5 230.40	23.26	5.09 78	41 999.00	226.90	20.73	5.07	78.66	230.30	12.20	11.03	78.93	999.00	-0.64	999.00	-0.41	0.00
20 7 27 6 242.00	20.89	5.21 78	23 999.00	241.10	18.59	6.58	78.57	247.40	11.01	10.37	79.20	999.00	-0.94	999.00	-0.59	0.00
20 7 27 7 239.00	16.38		85 999.00		14.17	6.43	77.18	241.70	8.67	9.36	77.80	999.00	-1.12	999.00	-0.74	0.00
20 7 27 8 240.10	14.19		23 999.00		12.48	7.84		241.10	8.92	10.79	77.70	999.00	-1.73	999.00	-1.09	0.00
20 7 27 9 232.60	14.60		21 999.00		14.12	5.83		234.50	10.03	11.30	79.45	999.00	-2.39	999.00	-1.60	0.00
20 7 27 10 237.60	14.55		38 999.00		14.05	8.45		241.80	10.20	13.84	80.95	999.00		999.00	-1.54	0.00
20 7 27 10 237.00	17.48		53 999.00					240.60	12.53	10.08	82.00	999.00	-2.64	999.00	-1.75	0.00
					17.12	4.61										
20 7 27 12 241.40	17.50		22 999.00		16.77	6.33		240.60	12.86	10.56	84.15	999.00	-2.93	999.00	-1.66	0.00
20 7 27 13 227.40	17.89		88 999.00		17.07	8.36		228.30	11.71	13.20	85.72	999.00	-2.58	999.00	-1.53	0.00
20 7 27 14 265.90	15.57		.88 999.00		13.70	6.51		265.00	7.95	11.74	85.72	999.00	-0.69	999.00	-0.97	0.05
20 7 27 15 292.80			44 999.00		7.13	8.89		296.90	3.37	13.80	76.95	999.00	1.37	999.00	3.64	0.00
20 7 27 16 201.60	15.21			197.90	13.44	9.33		207.50	7.44	18.96	75.52	999.00	-1.10	999.00	-1.05	0.06
20 7 27 17 211.00			65 999.00		8.61	32.10		204.40	5.36	48.41	75.52	999.00	-0.41	999.00	-1.32	0.01
20 7 27 18 216.20	16.74	4.31 72	54 999.00	211.40	14.37	5.73	72.79	215.10	7.41	13.45	72.95	999.00	-0.57	999.00	-1.12	0.01
20 7 27 19 230.10	16.35	5.75 73	06 999.00	227.30	15.12	6.34	73.36	231.40	10.06	12.69	74.07	999.00	-1.45	999.00	-1.05	0.00
20 7 27 20 222.30	17.22	5.38 74	74 999.00	219.60	15.21	6.32	75.27	221.40	8.68	12.30	75.78	999.00	-0.52	999.00	-1.20	0.00
20 7 27 21 233.80	17.10	5.16 999	00 999.00	231.70	15.40	5.70	999.00	238.20	10.63	9.56	75.57	999.00	-1.20	999.00	-1.24	0.00
20 7 27 22 251.50	13.31	4.25 74	61 999.00	246.70	11.35	5.04	74.64	247.70	6.08	8.86	75.32	999.00	-0.47	999.00	-1.06	0.00
20 7 27 23 235.60	16.41	4.13 73	89 999.00	232.70	14.92	4.54	74.09	238.40	10.07	9.30	74.95	999.00	-1.21	999.00	-1.59	0.00
20 7 27 24 241.90	16.62		91 999.00		14.40	5.63		241.10	9.21	10.28	74.08	999.00	-1.01	999.00	-1.63	0.00
20 7 28 1 267.80	14.48		63 999.00		13.26	4.30		255.60	7.02	10.58	73.18	999.00	0.07	999.00	-0.92	0.00
20 7 28 2 282.90	17.22		01 999.00		15.14	3.46		264.20	6.37	8.50	72.23	999.00	1.06	999.00	1.00	0.00
20 7 28 3 281.70	18.80		90 999.00		17.04	1.91		267.40	7.54	8.67	70.78	999.00	1.26	999.00	1.04	0.00
20 7 28 4 291.50	16.57		76 999.00		14.93	1.90		270.60	6.39	7.88	69.15	999.00	1.96	999.00	1.97	0.00
20 7 28 5 289.90	16.07		96 999.00		15.06	1.60		265.10	5.42	8.13	67.66	999.00	2.57		2.02	0.00
20 7 28 6 287.50	14.67		76 999.00		14.55	1.12		259.50	6.45	8.29	66.61	999.00	2.42	999.00	2.21	0.00
20 7 28 7 280.10			51 999.00		11.47	3.34		243.60	5.69	7.40	66.35	999.00	1.69	999.00	1.01	0.00
20 7 28 8 261.50	12.38		71 999.00		9.53	8.32		225.70	5.19	9.49	67.23	999.00	-0.21	999.00	-0.22	0.00
20 7 28 9 259.20	10.31		98 999.00		8.69	10.70		244.60	6.19	12.95	69.21	999.00	-1.94		-1.13	0.00
20 7 28 10 251.90			22 999.00		7.25	10.84		254.20	5.99	15.10	72.75	999.00	-2.64	999.00	-1.43	0.00
20 7 28 11 236.40	8.08		78 999.00		8.03	9.03		231.80	6.80	11.75	75.43	999.00	-2.63	999.00	-1.37	0.00
20 7 28 12 229.40			46 999.00		8.82	12.02		226.50	6.88	14.67	78.38	999.00	-3.10	999.00	-1.68	0.00
20 7 28 13 244.30	14.52		75 999.00		13.84	9.66		250.70	10.55	14.68	80.50	999.00	-2.81	999.00	-1.79	0.00
20 7 28 14 250.30	14.92		21 999.00		14.85	13.44	79.67	251.20	11.25	16.90	81.88	999.00	-2.48	999.00	-1.64	0.00
20 7 28 15 243.50	16.66	10.00 80	13 999.00	242.20	15.79	11.00	80.60	246.30	11.69	14.75	82.88	999.00	-2.61	999.00	-1.77	0.00
20 7 28 16 242.60	16.37	9.76 80	61 999.00	240.70	15.51	10.00	81.08	247.60	11.61	16.93	83.35	999.00	-2.62	999.00	-1.60	0.00
20 7 28 17 241.00	15.12	9.30 81	14 999.00	239.70	14.52	8.97	81.61	244.00	11.30	12.34	83.80	999.00	-2.48	999.00	-1.40	0.00
20 7 28 18 239.90	17.03	5.95 81	89 999.00	239.20	16.15	6.74	82.34	245.00	10.51	12.00	83.97	999.00	-1.80	999.00	-1.01	0.00
20 7 28 19 254.60	14.09	9.37 82	32 999.00	253.60	12.44	10.15	82.77	259.20	8.87	11.93	84.32	999.00	-1.95	999.00	-1.02	0.00
20 7 28 20 257.60	14.53	4.61 81	89 999.00	255.00	12.71	5.49	82.22	258.60	7.02	11.09	83.33	999.00	-1.04	999.00	-0.11	0.00
20 7 28 21 253.50	16.46		89 999.00		14.12	2.86		254.20	6.39	8.80		999.00		999.00	1.03	0.00
20 7 28 22 251.40	13.68		74 999.00		11.06	5.62		214.30	5.06	13.36		999.00		999.00	2.22	0.00
20 7 28 23 232.50	17.34		26 999.00		15.48	2.10		213.40	7.00	9.34		999.00		999.00	1.87	0.00
20 7 28 24 242.50	17.49		29 999.00		12.52	6.47		220.40	4.73	11.26		999.00		999.00	1.05	0.00
20 7 29 1 238.40	20.29		16 999.00		16.36	3.48		213.80	6.12	10.99		999.00		999.00	1.96	0.00
20 7 29 2 236.10	19.95		15 999.00		15.76	2.18		214.00	5.86	11.23		999.00		999.00	1.90	0.00
20 7 29 3 226.00	18.82		01 999.00		15.78	3.70		207.70	6.28	13.13		999.00		999.00	0.75	0.00
20 7 29 3 220.00	17.53		32 999.00		14.12	3.44		211.10	6.15	12.17		999.00		999.00	0.73	0.00
20 129 4 230.00	11.00	۷. ۱۱ /۱	. 54 999.00	224.30	T4.T7	J.44	/ 1 . 0 /	Z I I • I U	0.13	⊥∠•⊥/	10.30	222.00	0.00	999.00	0.77	0.00

20	7 29 5	223.80	19.13	3.47	70.22	999.00	215.90	16.20	3.86	70.03	210.40	7.03	11.51	69.55	999.00	0.80	999.00	0.59	0.00
20	7 29 6	231.60	18.48	2.75	70.07	999.00	225.90	13.94	4.71	69.67	212.20	6.12	12.59	69.16	999.00	0.81	999.00	0.52	0.00
20	7 29 7	235.30	20.57	2.65	70.36	999.00	227.10	16.31	3.52	70.00	208.70	6.08	13.47	68.53	999.00	2.27	999.00	1.60	0.00
20	7 29 8	220.10	18.71	3.99	70.13	999.00	214.00	15.62	5.10	69.78	215.30	7.98	12.96	69.69	999.00	-0.70	999.00	-0.64	0.00
20	7 29 9	226.30	18.06	4.33	70.98	999.00	222.50	15.74	5.71	71.10	223.80	10.22	11.98	72.23	999.00		999.00	-0.83	0.00
	7 29 10		17.19	5.89	71.55	999.00	215.90	15.62	7.65		219.30	10.33	13.35	73.35	999.00		999.00	-1.70	0.00
	7 29 11		16.40	6.98	74.77	999.00	231.40	15.71	7.15		239.50	11.25	11.14	77.28	999.00	-2.13	999.00	-1.22	0.00
	7 29 12		17.71	5.33	77.97	999.00	227.90	17.03	5.94	78.37	235.70	11.20	11.23	80.35	999.00	-2.28	999.00	-1.57	0.00
	7 29 13		19.03	6.16	80.27	999.00	216.90	17.87	7.20		222.70	11.48	14.12	83.25	999.00		999.00	-1.94	0.00
	7 29 14		21.53	7.01	81.58	999.00	220.40	20.67	7.77		229.40	15.23	11.91	84.55	999.00		999.00	-1.97	0.00
	7 29 15		21.87	5.21	82.69	999.00	222.30	21.32	6.09		229.20	15.00	11.07	85.38	999.00	-2.88	999.00	-1.89	0.00
	7 29 16		21.61	6.73	83.78	999.00	219.30	20.28	7.17		227.60	13.56	12.51	86.25	999.00		999.00	-1.14	0.00
	7 29 17		16.54	7.76	83.87	999.00	237.90	15.45	7.90		245.20	10.39	13.33	85.30	999.00	-2.12	999.00	-1.33	0.00
20	7 29 18	262.20	10.70	10.86	84.24	999.00	263.50	10.21	11.50	84.65	272.40	8.16	15.58	86.43	999.00	-2.40	999.00	-1.64	0.00
20	7 29 19	260.90	11.29	8.31	83.46	999.00	261.40	10.23	8.30	83.85	269.60	6.52	11.51	85.22	999.00	-1.10	999.00	-0.56	0.00
20	7 29 20	253.30	10.10	7.97	82.70	999.00	247.70	9.29	9.26	83.00	247.90	5.30	16.60	83.47	999.00	-0.86	999.00	-0.43	0.00
20	7 29 21	232.00	11.22	3.26	82.16	999.00	227.00	10.71	2.82	82.52	215.20	4.52	13.63	82.13	999.00	0.50	999.00	0.82	0.16
20	7 29 22	235.30	15.64	5.13	79.37	999.00	228.20	14.48	6.39	79.38	220.70	6.07	10.81	77.95	999.00	2.78	999.00	3.67	0.07
	7 29 23		13.53	2.96	79.45	999.00	231.60	11.87	5.03	79.74		4.54	10.19	76.82	999.00	2.43	999.00	1.66	0.33
	7 29 24		25.37	11.24	75.29	999.00	308.40	23.83	11.52	75.29	318.00	15.18	20.33	75.00	999.00	-1.62	999.00	-1.23	0.06
	7 30 1		8.70	4.86	75.29	999.00	292.40	7.53	5.76	75.29	229.80	3.72	9.27	75.00	999.00	3.61	999.00	2.01	0.00
	7 30 2		12.97	5.05	73.74	999.00	288.40	12.39	3.90		266.30	4.27	7.45	71.18	999.00		999.00	4.43	0.00
	7 30 2		11.09	2.73	74.64	999.00	293.70	9.66	3.33	74.32	272.30	1.84	44.90	70.78	999.00		999.00	2.18	0.00
	7 30 3	326.00	10.81	2.90	74.64	999.00	320.00	9.60	3.26		267.70	2.83	24.46	70.78	999.00		999.00	4.82	0.00
	7 30 4	344.10	8.74			999.00					320.70						999.00		0.00
				3.58	73.30		340.00	7.26	6.13	73.47		2.03	43.63	70.64				2.88	
	7 30 6	18.92	7.46	6.85	73.30	999.00	12.76	5.51	10.17	73.47	294.30	1.92	26.16	70.64			999.00	1.77	0.00
	7 30 7	23.05	10.35	5.62	74.07	999.00	18.31	9.02	6.86	74.60	3.99	4.49	22.19	73.72	999.00	0.17	999.00	0.64	0.00
	7 30 8	40.43	10.67	7.09	73.59	999.00	39.35	9.15	7.56	73.96	53.23	7.32	11.43	74.72	999.00	-1.17	999.00	-0.85	0.00
	7 30 9	41.88	11.06	6.33	73.38	999.00	40.79	9.47	6.92	73.79	52.33	8.03	12.94	75.05	999.00		999.00	-0.96	0.00
	7 30 10	50.98	10.63	7.78	72.82	999.00	46.90	9.73	8.66	73.27	57.52	8.04	13.60	74.78	999.00		999.00	-1.12	0.00
	7 30 11	63.83	11.32	6.62	73.05	999.00	60.42	11.06	8.78	73.44	64.85	9.00	14.80	75.10	999.00		999.00	-1.28	0.00
20	7 30 12	67.28	11.31	7.10	73.42	999.00	64.37	10.82	8.33	73.86	77.20	6.96	15.73	75.68	999.00		999.00	-1.29	0.00
20	7 30 13	71.80	11.46	10.04	74.38	999.00	69.36	11.08	12.36	74.85	72.50	8.61	18.24	77.00	999.00	-2.74	999.00	-1.50	0.00
20	7 30 14	77.90	11.90	5.71	74.40	999.00	73.80	11.36	6.57	74.89	82.70	7.55	17.76	77.00	999.00	-2.62	999.00	-1.67	0.00
20	7 30 15	67.06	10.35	6.35	74.48	999.00	65.04	10.23	6.28	74.90	71.90	6.88	12.95	76.72	999.00	-1.83	999.00	-1.20	0.00
20	7 30 16	56.51	12.47	6.98	74.23	999.00	52.84	11.53	7.75	74.66	60.27	9.07	14.40	76.45	999.00	-2.51	999.00	-1.28	0.00
20	7 30 17	58.50	12.76	4.65	74.06	999.00	54.28	11.65	6.18	74.48	63.67	7.79	13.27	76.00	999.00	-1.86	999.00	-1.15	0.00
20	7 30 18	70.50	12.09	6.56	999.00	999.00	69.33	12.01	6.66	999.00	79.70	8.22	14.98	76.23	999.00	-1.86	999.00	-1.13	0.00
20	7 30 19	85.60	11.89	4.58	74.34	999.00	82.00	11.37	5.21	74.71	94.00	4.95	15.65	75.50	999.00	-0.97	999.00	-0.50	0.00
20	7 30 20	87.10	11.82	6.02	74.54	999.00	84.70	11.06	6.59	74.90	90.60	4.93	14.91	75.38	999.00		999.00	-0.39	0.00
	7 30 21	84.60	13.63	3.40	999.00	999.00	81.00	12.74	4.15	999.00	92.60	5.59	15.30	75.30	999.00	-0.60	999.00	-0.24	0.00
	7 30 22	65.99	14.62	4.11	999.00	999.00	64.00	14.41	4.66	999.00	71.10	7.74	12.96	75.30	999.00	-0.62	999.00	-0.41	0.00
	7 30 22	60.44	18.86	3.62		999.00	56.78	18.39	4.81	75.15	66.51	10.97	12.73		999.00	-0.90		-0.63	0.00
						999.00													0.00
	7 30 24	42.61	18.01	5.23			39.59	15.16	6.86	74.34	45.41	12.55	11.66		999.00	-1.19		-0.92	
	7 31 1	39.08	17.24	6.45		999.00	37.06	13.99	7.66	73.87	45.53	11.71	11.46		999.00	-1.22		-0.87	0.00
	7 31 2	29.77	20.21	5.57		999.00	27.26	15.89	8.03	73.05	35.89	13.80	10.33		999.00	-1.34		-1.10	0.00
	7 31 3	25.54	19.37	5.92		999.00	22.37	16.35	7.08	72.08	30.12	13.74	10.35		999.00	-1.35		-1.10	0.00
	7 31 4	25.99	21.11	4.80		999.00	23.30	17.14	7.07	70.79	30.66	14.27	11.09		999.00	-1.39		-1.17	0.00
	7 31 5	34.19	16.60	7.14		999.00	31.76	13.38	7.86	70.12	39.51	12.27	11.10		999.00	-1.35		-1.09	0.00
	7 31 6	35.24	15.40	6.97			32.59	12.05	7.78	999.00	41.41	11.13	11.76		999.00	-1.27		-1.07	0.00
	7 31 7	33.64	14.89	7.47		999.00	31.35	12.55	9.06	69.90	40.58	10.57	12.03		999.00	-1.42		-1.04	0.00
20	7 31 8	28.86	17.92	3.57	69.64	999.00	25.81	14.80	5.34	70.09	34.15	12.74	9.19	71.32	999.00	-1.81	999.00	-1.00	0.00

	7 31 9	26.43	17.57	6.29	999.00		23.31	15.07	7.69	999.00	33.42	12.51	9.47		999.00	-2.08		-0.86	0.00
20	7 31 10	33.03	14.49	8.24	69.99	999.00	30.41	12.38	9.73	70.40	33.16	12.46	10.62	72.65	999.00		999.00	-0.73	0.00
20	7 31 11	28.70	13.66	9.28	70.81	999.00	24.67	11.72	9.92	71.29	27.97	11.39	11.65	73.47	999.00	-2.86	999.00	-0.62	0.00
20	7 31 12	23.10	13.99	6.26	71.61	999.00	18.20	12.56	6.62	72.12	31.44	11.09	13.60	74.28	999.00	-2.73	999.00	-0.45	0.00
20	7 31 13	22.54	11.20	10.82	72.56	999.00	18.52	10.23	10.63	73.14	25.55	9.70	15.40	75.57	999.00	-3.28	999.00	-0.47	0.00
	7 31 14	32.50	9.29	12.25	73.55	999.00	27.63	9.10	13.92	74.06	35.02	8.89	20.09	76.55	999.00		999.00	-0.50	0.00
	7 31 15	48.64	8.58	12.35	73.97	999.00	46.14	8.17	12.07	74.56	54.02	7.95	19.75	77.03	999.00	-3.24	999.00	-1.31	0.00
	7 31 16	53.19	7.89	11.29	73.83	999.00	48.32	7.33	14.30	74.41	51.42	7.09	16.74	76.85	999.00	-3.08	999.00	-0.96	0.00
	7 31 17			12.99		999.00			12.83			6.26	20.91		999.00		999.00		0.00
		55.49	7.00		74.07		50.27	6.65		74.61	52.90			76.83				-0.87	
	7 31 18	47.04	5.78	13.16	75.08	999.00	51.16	6.41	11.38	75.59	77.40	5.92	19.95	77.55	999.00	-1.85	999.00	-0.85	0.00
	7 31 19	60.57	7.50	11.40	75.64	999.00	57.83	7.29	11.40	76.16	78.30	5.27	20.63	77.93	999.00	-2.17	999.00	-0.86	0.00
	7 31 20	63.21	6.64	5.09	75.82	999.00	61.65	6.64	4.46	76.29	78.40	3.93	14.15	77.30	999.00	-1.02	999.00	-0.26	0.00
	7 31 21	60.28	9.23	4.02	999.00	999.00	57.52	9.22	5.02	999.00	73.70	4.62	11.41	75.97	999.00		999.00	0.01	0.00
20	7 31 22	72.20	8.06	5.16	75.42	999.00	70.60	7.67	5.02	75.93	91.20	3.33	8.78	75.47	999.00	-0.08	999.00	0.25	0.00
20	7 31 23	60.58	9.20	3.97	999.00	999.00	57.85	9.23	4.71	999.00	76.90	4.00	11.93	75.40	999.00	-0.14	999.00	0.19	0.00
20	7 31 24	77.70	10.12	4.86	75.34	999.00	75.10	9.66	5.31	75.84	86.60	3.90	11.10	75.43	999.00	-0.13	999.00	0.33	0.00
20	8 1 1	61.01	14.76	3.18	74.37	999.00	56.66	14.30	4.19	74.78	65.60	8.38	11.16	74.88	999.00	-0.86	999.00	-0.57	0.00
20	8 1 2	57.59	13.33	4.93	73.91	999.00	53.13	12.72	5.87	74.26	63.15	8.16	11.79	74.75	999.00		999.00	-0.60	0.00
20	8 1 3	54.78	13.24	4.42	73.70	999.00	49.41	12.59	5.46	74.03	58.61	8.29	10.46	74.60	999.00	-0.93	999.00	-0.76	0.00
20	8 1 4	62.79	12.84	3.50	73.39	999.00	58.14	12.48	4.52	73.71	64.88	7.34	11.41	74.25	999.00	-0.83	999.00	-0.58	0.00
20	8 1 5	59.10	13.35	3.65	73.39	999.00	53.05	12.29	5.47	73.71	62.16	7.15	11.27	74.25	999.00	-0.97	999.00	-0.73	0.00
20	8 1 6	58.29	12.41	5.18	73.31	999.00	54.04	11.52	6.88	73.63	64.35	7.28	12.12	74.35	999.00		999.00	-0.78	0.00
20	8 1 7	66.58	12.82	4.96	999.00	999.00	62.53	12.23	5.60	999.00	70.80	7.28	11.54	74.45	999.00		999.00	-0.81	0.00
20	8 1 8	95.70	13.44	5.56	74.54	999.00	91.90	12.39	6.43	74.84	101.30	5.56	15.10	75.25	999.00	-0.85	999.00	-0.60	0.00
20	8 1 9	110.10	12.31	7.24	74.82	999.00	107.00	11.81	8.09	75.17	114.30	5.47	16.54	76.05	999.00	-1.17	999.00	-0.76	0.00
20	8 1 10	163.10	8.21	5.08	73.11	999.00	161.70	7.81	6.42	73.47	177.80	4.59	17.72	74.50	999.00	-1.57	999.00	-1.02	0.00
20	8 1 11	192.50	6.16	6.73	999.00	999.00	189.10	5.22	10.89	999.00	180.90	3.64	17.19	73.13	999.00	-1.07	999.00	-0.70	0.03
20	8 1 12	149.30	6.29	7.96	72.55	999.00	154.70	4.64	10.21	72.49	165.20	2.75	21.89	73.68	999.00	-0.96	999.00	-0.60	0.03
20	8 1 13	50.04	5.19	19.43	71.18	999.00	44.76	3.29	25.28	71.56	0.51	1.61	33.16	71.57	999.00	0.77	999.00	-0.32	0.15
20		41.79	6.30	10.02	69.57	999.00	37.89	5.31	10.96	70.12	38.40	4.39	20.29	69.08	999.00	0.43	999.00	-0.91	0.08
20		75.60	13.48	4.90	68.31	999.00	75.30	12.27	7.08	68.81	90.00	5.57	18.91	67.91	999.00	0.00	999.00	-2.05	0.01
20	8 1 16	37.47	13.39	6.28	66.15	999.00	36.16	11.05	7.00	67.49	41.38	9.62	10.30	66.89	999.00		999.00	-1.08	0.42
20	8 1 17	49.23	12.41	6.05	66.37	999.00	47.05	11.44	6.05	67.76	58.81	8.13	11.38	67.22	999.00	-0.71	999.00	-0.89	0.01
	8 1 18	39.63	14.31	5.88	67.54	999.00	37.83	11.59	7.49	68.74	48.59	9.39	12.73	68.44	999.00	-0.92	999.00	-0.95	0.00
20																			
20	8 1 19	54.51	15.47	6.21	69.03	999.00	51.33	14.82	7.09	70.08	59.64	10.05	11.33	69.80	999.00	-0.73	999.00	-0.87	0.00
20	8 1 20	49.42	16.16	7.42	70.41	999.00	46.84	15.44	7.72	71.29	55.10	12.37	11.88	71.30	999.00		999.00	-0.80	0.00
20	8 1 21	63.18	19.05	8.45	71.26	999.00	58.77	17.46	9.82	71.94	64.56	10.85	14.72	72.20	999.00	-0.87	999.00	-0.94	0.00
20	8 1 22	80.00	14.65	4.55	72.75	999.00	77.00	14.24	5.04	73.53	85.40	6.41	17.14	73.47	999.00	-1.02	999.00	-0.73	0.00
20	8 1 23	108.80	12.60	4.91	73.35	999.00	104.90	12.09	5.73	74.01	111.10	5.84	15.51	74.50	999.00	-1.24	999.00	-1.40	0.00
20	8 1 24	105.70	7.38	4.80	999.00	999.00	102.40	6.99	5.41	999.00	110.00	3.02	13.81	74.43	999.00	-0.81	999.00	-0.56	0.00
20	8 2 1	129.50	4.31	6.78	73.25	999.00	131.00	4.30	6.23	73.58	196.10	1.74	32.71	73.75	999.00	-0.32	999.00	-0.33	0.00
20	8 2 2	182.40	7.68	4.64	72.31	999.00	177.30	7.04	5.48	72.70	185.00	2.58	17.88	72.93	999.00	-0.82	999.00	-0.66	0.00
20	8 2 3	184.70	11.61	2.63	71.55	999.00	180.30	10.18	3.39	71.87	185.60	4.12	16.36	72.50	999.00	-0.94	999.00	-0.87	0.00
	8 2 4		13.65	3.57		999.00		11.62	4.23		182.70	4.01		71.70		-0.33		-0.74	0.00
20		183.10	15.32	4.45		999.00		13.25	4.86		187.20	6.41	15.52		999.00	-1.13		-1.00	0.00
		192.50	16.06	3.68		999.00		13.78	5.14		198.20	6.39	16.04		999.00	-1.13		-0.96	0.00
20		222.50	16.99	4.64		999.00		15.62	5.53		222.20	9.36	12.46		999.00	-0.77		-1.00	0.00
20		222.40	21.01	4.84		999.00		20.05	5.26		223.60	13.39	12.31		999.00	-0.84		-1.04	0.00
20		226.10	18.60	6.09		999.00		17.43	6.60		229.50	12.48	11.17		999.00	-1.37		-1.45	0.00
	8 2 10		20.03	5.95		999.00		18.60	6.40		226.00	12.83	11.87		999.00	-1.42		-0.92	0.00
	8 2 11		20.89	5.02		999.00		19.60	5.55		234.40	14.47	9.94		999.00	-1.71		-1.29	0.00
20	8 2 12	247.10	21.31	8.17	67.30	999.00	244.70	20.40	8.92	67.89	251.70	14.58	13.57	69.30	999.00	-2.29	999.00	-1.39	0.00

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20 8		250.80	20.03	5.96	65.84	999.00		17.81	6.57		251.30	11.81	10.63		999.00		999.00	-1.90	0.01
20 8		254.70	18.57	6.88	65.69	999.00	251.70	17.08	7.09	66.30	256.40	11.26	11.43	67.04	999.00	-1.41	999.00	-1.58	0.01
20 8	2 15		16.79	8.28	65.79	999.00	276.20	15.56	8.27		275.30	11.99	9.46	67.26	999.00	-1.61	999.00	-1.99	0.00
20 8	2 16	255.80	19.84	6.54	65.67	999.00	253.50	18.88	7.59	66.36	255.10	12.70	12.04	67.25	999.00	-1.62	999.00	-1.52	0.00
20 8	2 17	258.70	18.40	7.19	65.64	999.00	256.40	16.82	7.54	66.56	259.30	10.55	11.68	67.45	999.00	-1.82	999.00	-0.75	0.00
20 8	2 18	241.90	16.09	6.53	66.23	999.00	240.90	14.72	6.59	67.00	249.40	10.01	11.46	67.80	999.00	-1.71	999.00	-0.96	0.00
20 8	2 19	239.10	13.56	5.98	66.95	999.00	237.00	12.71	6.46	67.74	244.20	9.67	10.45	68.85	999.00	-1.95	999.00	-1.29	0.00
20 8	2 20	240.90	9.84	8.18	69.49	999.00	238.30	9.15	8.68	70.37	248.00	6.03	12.38	71.95	999.00	-1.90	999.00	-1.04	0.00
20 8	2 21	244.30	10.77	4.21	70.36	999.00	242.50	8.70	5.22		243.80	4.48	10.00	71.43	999.00	-0.32	999.00	-0.31	0.00
20 8	2 22	230.00	10.38	2.18	70.19	999.00	224.00	9.39	2.48		195.60	3.50	8.03	69.41	999.00	1.54	999.00	1.89	0.00
20 8	2 23		12.88	3.11	69.99	999.00	202.30	13.10	4.45		186.10	5.28	10.19	67.88	999.00	2.35	999.00	3.09	0.00
		197.30				999.00	190.00		1.65		179.30		14.40		999.00		999.00	3.57	0.00
20 8			11.94	1.49	69.98			11.46				2.69		67.06		3.18			
20 8	3 1	192.60	14.02	2.18	70.14	999.00	187.60	13.96	1.49		177.70	3.54	13.74	66.60	999.00	3.62	999.00	4.31	0.00
20 8		190.60	18.32	1.89	69.76	999.00	176.50	14.57	2.16		172.30	3.45	14.21	66.32	999.00	3.63	999.00	1.86	0.00
20 8		196.30	16.89	3.71	68.49	999.00	181.30	13.40	2.99		179.40	4.32	16.19	66.23	999.00	2.43	999.00	0.78	0.00
20 8	3 4	201.60	15.96	2.96	68.49	999.00	190.00	12.49	3.20		188.20	3.37	15.84	66.23	999.00	1.65	999.00	0.95	0.00
20 8	3 5	205.20	14.84	2.33	67.12	999.00	190.50	13.17	2.07		183.90	3.94	13.79	65.73	999.00	1.25	999.00	0.96	0.00
20 8	3 6	187.70	14.09	3.72	67.35	999.00	173.80	13.04	3.81	67.26	175.30	4.24	17.36	66.23	999.00	0.63	999.00	0.20	0.00
20 8	3 7	201.60	17.08	2.50	66.48	999.00	191.70	13.84	3.19	66.31	194.10	5.40	14.57	66.30	999.00	0.33	999.00	-0.01	0.00
20 8	3 8	190.50	15.71	4.10	67.37	999.00	184.40	12.61	5.96	66.73	196.30	5.48	20.08	66.72	999.00	-0.78	999.00	-0.46	0.00
20 8	3 9	195.30	12.48	8.01	67.02	999.00	189.80	11.57	8.20	67.18	191.90	6.14	16.84	68.89	999.00	-2.39	999.00	-0.93	0.00
20 8	3 10	203.50	12.73	5.40	68.40	999.00	200.30	12.18	6.98	68.82	212.70	8.43	13.16	71.32	999.00	-3.12	999.00	-1.73	0.00
20 8	3 11	223.70	10.39	8.05	69.85	999.00	223.00	10.13	9.91	70.29	237.70	8.00	12.39	72.93	999.00	-2.96	999.00	-1.70	0.00
20 8	3 12	226.60	10.74	6.88	71.46	999.00	226.70	10.30	7.19	71.90	237.00	8.54	12.01	74.43	999.00	-2.87	999.00	-1.75	0.00
20 8	3 13		13.79	4.84	73.04	999.00	225.00	13.95	4.97	73.45	232.80	10.58	10.61	76.25	999.00	-2.88	999.00	-1.76	0.00
20 8	3 14		12.85	5.88	74.39	999.00	227.90	12.48	6.12	74.80	235.50	9.47	11.36	77.63	999.00	-3.37	999.00	-2.10	0.00
20 8	3 15		13.37	7.59	75.89	999.00	232.90	12.65	8.40	76.30	239.60	9.38	13.91	79.03	999.00	-2.98	999.00	-2.04	0.00
20 8		235.50	11.31	11.78	77.06	999.00	232.20	10.54	10.66		234.70	7.47	14.30	79.97	999.00	-2.82	999.00	-1.63	0.00
20 8	3 17		8.11	10.45	77.88	999.00	214.60	7.32	15.05		232.60	6.17	15.06	80.57	999.00	-3.19	999.00	-1.44	0.00
			10.85	19.90	77.69			10.44	19.40		190.10	6.05	25.14		999.00	-2.58	999.00		0.00
						999.00	179.80							80.10				-1.02	
20 8	3 19	188.40	13.97	4.99	73.97	999.00	185.00	12.22	6.04		194.30	6.69	15.02	75.83	999.00	-1.47	999.00	-0.96	0.00
20 8	3 20	200.30	12.79	4.94	73.47	999.00	196.00	11.55	5.56		206.30	5.94	14.26	74.93	999.00	-1.42	999.00	-0.95	0.00
20 8	3 21	200.70	12.47	3.31	72.37	999.00	194.90	10.53	4.70		199.10	4.61	15.53	73.50	999.00	-0.82	999.00	-0.58	0.00
20 8	3 22	208.90	12.78	5.20	71.35	999.00	200.30	10.77	3.85	71.45	205.10	4.74	13.07	71.70	999.00	-0.11	999.00	-0.10	0.00
20 8	3 23	222.50	13.67	4.02	70.51	999.00	216.00	10.56	6.43		219.80	4.86	9.82	70.60	999.00	0.20	999.00	-0.08	0.00
20 8	3 24	237.70	11.37	6.29	69.88	999.00	236.10	9.97	8.97	69.83	245.10	6.00	13.96	69.92	999.00	-0.53	999.00	-0.40	0.00
20 8	4 1	246.00	10.34	10.41	68.99	999.00	246.60	8.38	12.25	69.14	247.10	4.40	24.47	69.31	999.00	-0.17	999.00	-0.12	0.00
20 8	4 2	16.26	9.42	16.61	69.43	999.00	10.76	7.41	23.36	69.71	339.80	4.07	58.85	69.39	999.00	-0.34	999.00	-0.70	0.00
20 8	4 3	18.76	18.25	4.22	69.74	999.00	15.33	15.84	5.49	70.12	21.37	13.06	8.76	71.28	999.00	-1.62	999.00	-1.18	0.00
20 8	4 4	4.31	14.88	11.31	69.74	999.00	2.82	13.37	11.93	70.12	7.76	10.73	9.73	71.28	999.00	-1.61	999.00	-1.24	0.00
20 8	4 5	22.41	17.61	5.53	68.34	999.00	19.75	14.42	7.17	68.73	28.34	11.99	10.98	69.90	999.00	-1.58	999.00	-1.22	0.00
20 8	4 6	7.76	12.53	11.79	67.79	999.00	3.46	11.50	12.25	68.19	12.84	9.40	13.04	69.43	999.00	-1.60	999.00	-1.24	0.00
20 8	4 7	350.40	14.83	6.84	66.94	999.00	346.80	14.51	6.37	67.34	349.40	11.94	9.16	68.68	999.00	-1.75	999.00	-1.27	0.02
20 8	4 8	355.50	16.60	8.49	66.16	999.00		15.97	8.24	66.54	354.80		11.16	67.85	999.00	-1.66	999.00	-1.27	0.01
		348.20	18.33	5.14		999.00		17.37	6.43		352.20	12.88	9.21		999.00		999.00	-1.30	0.00
		343.20	16.11	5.52		999.00		15.43	6.96		344.80		9.60		999.00		999.00	-1.31	0.00
		337.80	13.07	7.67		999.00		12.23		66.15			11.04		999.00		999.00	-1.45	0.00
		321.00	11.98	7.63		999.00		11.73	7.84		328.20	9.07	12.88		999.00		999.00	-1.43	0.00
		302.80	13.08	8.20		999.00		13.16	8.07		304.60	10.21	13.07		999.00		999.00	-2.64	0.00
		306.00	12.50	11.15		999.00		12.59	12.26		312.40	10.17	23.05		999.00		999.00	-2.42	0.00
		307.20	14.98	8.13		999.00		15.35	9.55		306.60	11.41	16.57		999.00		999.00	-2.68	0.00
20 8	4 16	306.40	18.24	7.90	69.20	999.00	303.80	T8.0T	8.49	69.6I	309.10	13.88	13.10	12.35	999.00	-3.03	999.00	-2.54	0.00

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20 8 4 17		15.29	8.17		999.00		15.16	8.42		307.90	11.23	13.95		999.00		999.00	-2.61	0.00
	300.40	19.98	6.22	69.86	999.00	298.10	19.52	7.12		305.20	13.04	13.60	72.50	999.00	-2.63	999.00	-2.18	0.00
	295.90	18.26	6.74	69.40	999.00	292.50	17.36	7.06		293.70	11.55	11.70	71.82	999.00	-2.17	999.00	-1.75	0.00
	299.30	14.93	6.44	69.09	999.00	296.40	13.95	7.39		300.50	8.15	14.11	71.10	999.00	-1.86	999.00	-1.12	0.00
	288.00	16.63	6.43	68.57	999.00	284.40	15.39	6.92		286.70	8.28	14.15	69.60	999.00	-0.52	999.00	0.04	0.00
		15.15	5.16	67.60	999.00	285.90	13.61	5.68		272.10	7.06	9.01	67.45	999.00	0.45	999.00	1.05	0.00
	284.50	18.66	3.64	66.58	999.00	278.70	16.88	3.70		270.80	8.27	8.48	66.18	999.00	0.36	999.00	0.81	0.00
	325.00	15.37	6.58	66.02	999.00	321.80	14.44	7.39		322.00	9.22	10.99	65.85	999.00	-0.61	999.00	-0.36	0.00
	321.40	9.19	13.44	66.03	999.00	304.20	7.96	15.39		267.60	5.10	8.01	66.18	999.00	0.35	999.00	0.75	0.00
	281.10	10.82	4.81	64.21	999.00	266.00	12.98	4.48		252.60	6.04	8.76	62.53	999.00	2.01	999.00	1.95	0.00
20 8 5 3	277.00	13.30	3.56	62.70	999.00	263.20	12.37	4.84		244.20	4.80	9.52	60.60	999.00	1.86	999.00	0.84	0.00
	281.40	12.69	2.10	61.51	999.00		13.77	2.48		259.10	6.36	9.78	59.46	999.00	3.07	999.00	3.22	0.00
20 8 5 5	264.00	12.35	3.13	60.85	999.00	248.00	12.54	5.14		245.60	6.42	10.52	59.12	999.00	1.26	999.00	0.44	0.00
20 8 5 6	280.40	14.89	1.21	59.40	999.00	270.60	15.90	3.16	58.54	258.20	5.75	10.05	56.81	999.00	3.13	999.00	2.59	0.00
20 8 5 7	294.40	14.45	2.22	58.06	999.00	277.50	14.50	2.00	57.35	258.60	6.09	9.45	55.31	999.00	2.54	999.00	2.19	0.00
20 8 5 8	297.30	7.64	10.48	57.54	999.00	260.00	7.30	11.13	56.64	224.60	5.33	10.71	56.14	999.00	1.23	999.00	0.43	0.00
20 8 5 9	279.90	8.14	11.95	58.69	999.00	263.40	6.84	9.33	57.72	252.60	5.29	14.02	59.29	999.00	-1.68	999.00	-1.20	0.00
20 8 5 10	234.70	6.22	15.56	58.69	999.00	226.10	6.22	11.44	57.72	232.40	5.31	12.07	59.29	999.00	-1.70	999.00	-1.17	0.00
20 8 5 11	271.90	3.85	38.01	62.55	999.00	259.50	3.40	48.11	62.90	253.80	2.28	58.48	64.06	999.00	-1.67	999.00	-1.13	0.00
20 8 5 12	332.50	7.09	10.48	64.48	999.00	331.40	7.26	10.64	64.84	343.00	6.59	17.24	66.75	999.00	-3.10	999.00	-1.22	0.00
20 8 5 13	332.40	7.70	14.31	65.67	999.00	332.80	8.08	15.21	65.98	349.80	6.64	19.70	69.40	999.00	-3.72	999.00	-0.63	0.00
20 8 5 14	340.20	6.14	16.71	66.53	999.00	336.70	6.32	14.96	66.89	349.80	5.95	22.05	70.25	999.00	-3.72	999.00	-0.73	0.00
	357.40	6.43	15.84	67.57	999.00	351.90	6.55	17.82	67.79	3.16	5.41	24.11	71.38	999.00	-3.85	999.00	-0.78	0.00
20 8 5 16	2.67	6.04	13.88	68.49	999.00	1.53	6.14	13.58	68.82	6.16	5.79	26.39	72.30	999.00	-3.86	999.00	-0.23	0.00
20 8 5 17	353.90	5.68	12.70	69.10	999.00	351.90	5.61	10.50	69.51	2.07	5.15	10.66	72.63	999.00	-3.13	999.00	-0.60	0.00
20 8 5 18	36.25	4.11	20.04	70.22	999.00	32.60	3.95	20.75	70.86	29.06	4.26	31.95	73.30	999.00	-2.69	999.00	0.07	0.00
20 8 5 19	7.67	2.51	46.25	70.22	999.00	356.50	2.67	55.61	70.86	354.80	2.48	53.75	73.30	999.00	-3.62	999.00	-0.47	0.00
	112.30	4.90	13.37	70.19		106.80	4.91	12.77		106.20	2.89	13.01	71.92	999.00	-1.48	999.00	-0.40	0.00
	172.70	3.44	9.13	70.19	999.00		3.38	8.35		171.20	2.17	13.21	71.92	999.00	-0.25	999.00	-0.15	0.00
	168.30	6.45	1.83	68.60	999.00		6.02	0.74		128.20	1.39	20.33	67.49	999.00	1.50	999.00	2.09	0.00
	153.90	7.57	5.70	68.37	999.00		7.29	4.59		197.30	1.43	33.88	67.14	999.00	1.53	999.00	2.24	0.00
	161.60	11.36	1.76	67.71	999.00		11.18	1.32		189.10	2.27	15.80	65.22	999.00	2.99	999.00	3.54	0.00
	168.40	10.41	1.21	67.72	999.00		10.93	0.71		185.70	2.30	15.13	64.37	999.00	3.54	999.00	4.52	0.00
	163.60	11.05	0.50	67.42	999.00		10.69	0.60		177.90	1.98	20.42	63.50	999.00	4.33	999.00	5.21	0.00
	177.20	8.51	1.54	67.19	999.00		8.69	2.10		198.50	3.10	10.69	62.95	999.00	4.12	999.00	4.63	0.00
	199.60	7.19	2.47	66.94	999.00		7.64	2.68		219.40	4.50	7.15	62.58	999.00	4.34	999.00	4.88	0.00
20 8 6 5	243.60	7.32	1.02	67.06	999.00	237.60	6.37	1.44		265.00	1.15	46.58	62.45	999.00	4.92	999.00	5.38	0.00
20 8 6 6	237.10	5.23	15.66	64.62	999.00	245.60	4.69	10.79		235.70	3.65	11.22	61.07	999.00	1.55	999.00	1.98	0.00
	216.90	6.35	3.85	63.36	999.00	227.50	6.86	8.93		197.20	3.24	9.08	62.38	999.00	1.36	999.00	1.45	0.00
20 8 6 8	229.10	6.56	5.91	64.16	999.00	221.00	7.46	5.05		183.60	2.09	17.64	62.19	999.00	2.31	999.00	2.43	0.00
20 8 6 9	242.00	5.63	12.84	64.38	999.00	234.30	4.73	16.28	64.23		3.57	23.30	65.00	999.00	-2.63	999.00	-1.20	0.00
	266.60	4.84	24.52	65.73	999.00	246.80	4.33	28.21	66.07	213.00	3.54	24.12	68.46	999.00	-2.68	999.00	-0.47	0.00
20 8 6 11	39.26	7.69	11.28		999.00	38.87	6.78	10.38	68.69	49.13	6.77	16.83		999.00		999.00	-0.64	0.00
20 8 6 12		9.73	10.31			36.03		11.74	70.82	37.95		17.89		999.00		999.00	-0.40	0.00
20 8 6 13	36.13	8.95	9.04		999.00	34.00		10.08	70.72	39.73		15.65		999.00		999.00	-0.86	0.00
20 8 6 14	47.91	10.59	8.43		999.00	45.57	9.67	8.64	71.24	48.82	10.14	12.31		999.00		999.00	-1.29	0.00
20 8 6 15	55.84	9.05	10.14		999.00	52.73	8.96	11.57	71.06	58.98	8.10	13.71		999.00		999.00	-1.33	0.00
20 8 6 16	76.40	8.96	12.36		999.00	74.20	9.22	11.61	71.10	75.90	7.34	19.48		999.00		999.00	-1.78	0.00
20 8 6 17	61.99	8.06	9.31		999.00	60.06	8.05	10.90	71.80	70.20	7.18	21.53		999.00		999.00	-1.27	0.00
20 8 6 18	62.46	7.12	7.19		999.00	61.09	7.27	8.67	72.28	77.70	5.48	16.87		999.00		999.00	-1.30	0.00
20 8 6 19	50.85	6.05	7.06		999.00	46.94	5.78	8.45	72.87	54.43	5.68	16.18		999.00		999.00	-0.64	0.00
20 8 6 20	53.95	5.39	15.86	12.04	999.00	52.35	4.9/	15.19	72.72	64.74	4.19	23.53	13.95	999.00	-1./8	999.00	-0.42	0.00

20 8	6 21	57.57	4.91	9.22		999.00	52.32	4.86	10.85	71.94	75.00	2.74	13.27	72.27			999.00	-0.27	0.00
20 8	6 22	89.40	9.41	6.53	71.19	999.00	88.00	9.04	6.03	71.68	99.40	3.86	10.97	71.32	999.00	0.06	999.00	0.44	0.00
20 8	6 23	72.50	9.10	5.44	999.00	999.00	69.46	8.95	5.72	999.00	82.40	4.02	8.68	70.70	999.00	0.15	999.00	0.62	0.00
20 8	6 24	67.91	8.12	5.82	70.64	999.00	65.83	8.12	5.66	71.26	84.10	3.66	10.13	70.47	999.00	0.06	999.00	0.43	0.00
20 8	7 1	67.89	9.36	5.33	70.56	999.00	65.73	9.33	6.19	71.13	82.30	4.01	11.27	70.47	999.00	0.21	999.00	0.64	0.00
20 8	7 2	78.50	8.09	7.05	69.83	999.00	79.20	7.23	6.43	70.88	201.60	2.06	18.16	67.85	999.00	2.98	999.00	4.68	0.00
20 8	7 3	50.06	5.76	7.77	69.83	999.00	47.86	4.75	9.58	70.88	232.10	2.42	43.08	67.85	999.00	5.08	999.00	6.07	0.00
20 8	7 4	51.82	5.16	8.50	69.14	999.00	40.13	2.98	17.03	69.96	234.90	3.43	8.43	63.63	999.00	5.68	999.00	5.50	0.00
20 8	7 5	93.20	4.22	11.71	68.26	999.00	142.90	1.67	74.50	68.96	217.40	2.20	13.59	63.61	999.00	4.91	999.00	5.66	0.00
20 8	7 6	334.80	2.19	48.00	67.57	999.00	289.60	2.86	15.30	68.90	256.20	2.38	22.56	62.97	999.00	4.04	999.00	5.30	0.00
20 8	7 7	339.80	4.59	12.74	67.92	999.00	318.70	4.84	13.05	69.38	244.70	2.17	22.13	63.54	999.00	4.02	999.00	4.83	0.00
20 8	7 8	27.40	6.29	13.19	68.85	999.00	18.09	4.22	15.77	69.91	260.50	2.21	27.20	66.27	999.00	1.92	999.00	3.00	0.00
20 8	7 9	15.77	13.33	9.25	70.40	999.00	13.03	12.19	9.66	70.83	21.12	10.45	11.30	71.59	999.00	-2.45	999.00	-0.30	0.00
20 8	7 10	22.71	12.39	6.16	69.91	999.00	18.95	10.82	7.08	70.18	27.04	9.39	10.35	72.52	999.00	-2.77	999.00	-0.20	0.00
	7 11	22.71	11.31	6.93	70.44	999.00	19.72	9.97	8.06	70.10	28.31	9.20	13.04	73.18	999.00	-2.94	999.00	-0.31	0.00
20 8	7 12	34.58	7.74	12.83	70.86	999.00	36.97	6.93	12.81	71.31	42.07	7.77	25.29	73.63	999.00	-2.73	999.00	-0.34	0.00
20 8	7 13	40.61	8.49	11.17	71.69	999.00	39.21	7.68	11.07	72.24	43.96	7.71	18.08	74.47	999.00	-3.01	999.00	-0.47	0.00
20 8	7 14	38.84	9.63	9.28	72.27	999.00	35.52	8.89	9.49	72.88	37.74	9.62	15.63	75.27	999.00	-2.91	999.00	-0.81	0.00
20 8	7 15	59.36	9.24	8.20	72.81	999.00	56.48	8.87	10.22	73.39	63.66	8.29	19.09	76.03	999.00	-3.08	999.00	-1.38	0.00
20 8	7 16	50.62	7.34	12.77	73.04	999.00	46.29	7.11	14.49	73.59	49.18	7.59	20.13	76.03	999.00	-3.13	999.00	-1.03	0.00
20 8	7 17	84.60	7.99	12.12	72.97	999.00	84.10	7.97	12.07	73.47	97.10	5.72	20.67	75.90	999.00	-2.63	999.00	-1.57	0.00
20 8	7 18	68.06	6.77	9.83	73.24	999.00	64.46	6.64	9.25	73.78	70.20	5.64	16.41	75.88	999.00	-2.67	999.00	-1.21	0.00
20 8	7 19	62.35	5.05	9.49	73.49	999.00	59.69	5.20	11.68	74.07	68.31	4.24	18.70	75.88	999.00	-2.39	999.00	-0.99	0.00
20 8	7 20	84.40	7.63	3.88	73.09	999.00	82.10	7.39	3.39	73.54	98.50	3.94	13.00	74.90	999.00	-1.35	999.00	-0.40	0.00
20 8	7 21	121.50	3.30	21.09	72.85	999.00	142.30	2.43	56.93	73.24	241.30	2.32	24.66	73.50	999.00	-0.19	999.00	-0.29	0.00
20 8	7 22	115.00	4.19	5.47	72.21	999.00	124.60	2.96	10.96	72.82	178.60	1.85	18.39	71.82	999.00	0.83	999.00	1.25	0.00
20 8	7 23	127.80	6.52	2.77	71.61	999.00	132.20	6.58	5.31	72.57	180.40	2.52	7.06	70.08	999.00	1.94	999.00	3.35	0.00
20 8	7 24	150.10	5.25	2.85	70.68	999.00	152.50	5.33	1.61	72.40	235.20	1.44	43.59	67.66	999.00	3.77	999.00	4.78	0.00
20 8	8 1	157.40	4.74	4.50	70.59	999.00	161.10	4.64	3.23	72.33	201.80	1.85	33.67	67.12	999.00	3.55	999.00	4.03	0.00
20 8	8 2	181.60	4.68	5.89	69.71	999.00	185.40	4.88	3.50	71.08	202.60	3.36	13.25	66.30	999.00	3.88	999.00	4.62	0.00
20 8		181.10	5.60	2.27	69.36	999.00	184.10	6.15	2.73		197.10	2.69	12.33	65.15	999.00	4.37	999.00	5.50	0.00
20 8		195.80	4.57	5.13	69.69	999.00	203.70	5.53	3.70	70.71		1.97	13.23	64.33	999.00	6.24	999.00	6.94	0.00
20 8		197.60	6.39	2.32	69.64	999.00	199.90	7.62	3.03		196.20	3.50	13.75	63.84	999.00	6.03	999.00	6.33	0.00
20 8	8 6	223.70	5.93	3.86	69.20	999.00	223.60	7.19	3.99		224.10	3.29	14.38	62.96	999.00	6.13	999.00	6.25	0.00
20 8	8 7	230.00	4.90	1.10	68.94	999.00	234.00	6.68	3.34		232.50	2.37	6.07	62.05	999.00	7.12	999.00	7.35	0.00
20 8	8 8	237.00	6.49	1.82	69.19	999.00	232.40	7.67	4.66		232.80	3.47	13.78	63.17	999.00	4.65	999.00	3.35	0.00
20 8	8 9	247.10	7.78	4.24	66.60	999.00	255.10	7.25	7.12		265.10	5.10	10.96	65.33	999.00	-0.19	999.00	-0.90	0.00
	8 10	223.60	4.33	18.23	66.45	999.00	213.80	4.43	16.00	66.61	224.60	4.74	16.64	69.10	999.00	-2.79	999.00	-0.64	0.00
	8 11	204.30	4.06	14.19	69.89	999.00	216.00	3.76	18.21	70.21	239.80	3.94	13.17	72.78	999.00	-2.79	999.00		0.00
																		-0.67	
20 8	8 12	241.10	4.33	20.56	72.62	999.00	241.40	4.09	20.78	72.97	251.50	3.83	37.31	75.55	999.00	-3.18	999.00	-1.15	0.00
20 8	8 13	61.39	4.35	43.23	74.35	999.00	54.62	4.14	41.98	74.71	42.23	3.06	51.76	77.35	999.00	-3.29	999.00	-0.87	0.00
20 8	8 14	61.39	6.60	12.23	74.96	999.00	60.96	6.96	11.44	75.36	74.70	7.01	17.07	77.55	999.00	-2.53	999.00	-1.21	0.00
20 8		69.18	6.28	11.95	75.19	999.00	64.08	6.57	13.66	75.62	65.48	6.15	21.95		999.00	-2.98	999.00	-1.31	0.00
	8 16		7.53	10.22		999.00	60.16	7.61	10.59	75.97	74.00	6.95	19.56		999.00		999.00	-1.20	0.00
20 8		79.30	10.95	6.43		999.00	74.70	10.86	7.58	76.07	83.20	7.69	15.12		999.00		999.00	-1.91	0.00
20 8		74.50	9.02	8.06		999.00	70.60	8.87	9.22	76.08	80.90	6.35	16.00		999.00		999.00	-1.56	0.00
20 8	8 19	90.50	8.63	5.50	75.71	999.00	85.20	8.35	6.70	76.11	97.90	4.60	17.31	78.15	999.00	-2.22	999.00	-1.29	0.00
20 8	8 20	116.10	10.38	3.43	75.57	999.00	111.00	9.30	4.27	75.84	114.70	4.91	13.87	77.32	999.00	-1.39	999.00	-0.57	0.00
20 8	8 21	130.10	12.78	1.38	75.57	999.00	128.70	11.91	2.38	75.84	137.50	4.75	14.35	77.32	999.00	-0.09	999.00	0.10	0.00
		139.50	16.64	1.83		999.00		15.66	3.20		144.10	5.72	16.62		999.00		999.00	0.13	0.00
		161.70	12.66	3.22		999.00		9.70	3.21		191.30	2.13	33.43		999.00		999.00	0.78	0.00
		201.40	13.25	1.99		999.00		10.15	3.00		197.60	2.85	9.92		999.00		999.00	2.73	0.00
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20 8 9 9 6 229.10 11.35 2.71 73.03 89.90 27.50 10.57 1.63 74.36 193.10 4.16 73.07 4.26 10.39 68.35 99.00 2.55 989.00 4.22 0.00 10.30 17.81									
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20 8 9 14 224.20 27.88 0.74 74.25 999.00 221.00 15.28 72.29 190.00 4.72 993.00 7.04 1999.00 5.97 0.00 10.00									
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20 8 9 10 226.50 9.50 6.98 70.13 999.00 219.06 7.05 70.29 72.50 70.00 22.50 7.06 70.29 70.00 7									
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	20 8 11 4 235.80	13.19 5.41	/1.10 999.00 232.20	12.13 5.81	/1.40 234.80	8.67 10.88	/2.28 999.00	-1.26 999.00	-0.89 0.00

20 8 11 5		16.23	4.49		999.00		14.39	5.83		226.30	7.80	12.58		999.00		999.00	-0.54	0.00
20 8 11 6	238.10	12.38	6.28	68.58	999.00	233.70	10.47	6.76		225.50	7.04	10.07	69.36	999.00	-0.72	999.00	-0.55	0.00
20 8 11 7	244.60	10.86	8.18	67.97	999.00	237.30	8.93	8.66	68.11	229.20	5.67	12.15	68.49	999.00	-0.66	999.00	-0.49	0.00
20 8 11 8	226.60	12.98	4.06	67.03	999.00	220.60	11.36	5.30	67.06	218.30	7.06	10.58	68.04	999.00	-1.70	999.00	-1.14	0.00
20 8 11 9	220.50	11.87	6.49	67.31	999.00	217.40	11.52	6.38	67.59	227.30	9.33	12.36	69.45	999.00	-2.58	999.00	-1.60	0.00
20 8 11 10	224.80	12.78	5.81	69.20	999.00	221.50	12.51	6.93	69.48	227.30	10.06	10.44	71.67	999.00	-2.61	999.00	-1.79	0.00
20 8 11 11		12.12	5.66	71.05	999.00	230.30	11.96	5.76		234.30	9.39	11.33	74.23	999.00	-3.23	999.00	-2.22	0.00
20 8 11 12		11.65	6.63	73.67	999.00	231.10	11.24	6.21		232.80	9.29	12.64	76.98	999.00	-3.41	999.00	-2.04	0.00
20 8 11 13		11.03	10.48	76.20	999.00	231.60	10.50	10.68		238.50	8.48	14.23	79.55	999.00	-3.30	999.00	-1.83	0.00
20 8 11 14		11.26	7.43	78.01	999.00	231.30	11.06	7.72		233.50	9.26	11.43	81.50	999.00	-3.45	999.00	-1.98	0.00
	231.90	11.65	5.92	78.74	999.00	231.80		7.72		240.70	8.43	14.59	81.97	999.00	-2.66	999.00	-2.05	0.00
							11.14											
20 8 11 16		15.51	6.55	79.26	999.00	229.70	15.16	6.44		237.60	11.79	10.42	82.42	999.00	-3.30	999.00	-1.99	0.00
20 8 11 17		15.94	7.92	79.77		209.80	15.27	9.42		219.80	10.31	15.44	82.88	999.00	-3.06	999.00	-2.12	0.00
	224.80	17.23	3.94	79.77	999.00	223.30	16.85	4.60		228.60	11.78	11.19	82.88	999.00	-2.21	999.00	-1.23	0.00
	297.50	7.69	9.16	80.14	999.00	292.90	6.66	9.27		281.30	4.08	12.66	81.40	999.00	-1.09	999.00	-0.97	0.00
20 8 11 20	322.10	8.65	4.28	79.81	999.00	318.30	7.58	6.10		312.30	3.48	14.03	81.30	999.00	-0.97	999.00	-0.82	0.00
20 8 11 21	326.80	11.59	4.74	79.28	999.00	323.00	10.62	5.35	79.51	320.00	5.29	11.54	79.95	999.00	-0.55	999.00	-0.34	0.00
20 8 11 22	338.00	16.86	4.72	999.00	999.00	334.90	15.81	5.70	999.00	340.30	8.83	8.85	78.77	999.00	-0.21	999.00	-0.23	0.00
20 8 11 23	10.10	12.38	10.26	77.60	999.00	6.69	11.05	10.65	77.85	13.80	8.02	11.10	78.52	999.00	-1.04	999.00	-1.02	0.00
20 8 11 24	26.09	13.41	5.76	77.03	999.00	22.88	11.21	7.28	77.27	25.86	9.94	10.01	77.95	999.00	-1.03	999.00	-0.98	0.00
20 8 12 1	45.67	11.31	5.46	77.03	999.00	43.65	10.53	6.01	77.27	57.80	7.45	10.53	77.95	999.00	-0.75	999.00	-0.61	0.00
20 8 12 2	61.17	11.47	2.13	75.36	999.00	58.30	11.24	2.83	75.65	71.80	5.97	10.13	75.90	999.00	-0.29	999.00	-0.07	0.00
20 8 12 3	67.32	11.61	3.06	75.12	999.00	65.21	11.46	3.48	75.56	80.50	4.94	11.74	75.22	999.00	0.07	999.00	0.43	0.00
20 8 12 4	80.10	11.26	3.55	74.40	999.00	76.80	10.94	3.32	74.90	92.20	4.26	12.38	74.30	999.00	0.17	999.00	0.55	0.00
20 8 12 5	97.20	10.83	3.04	74.28	999.00	95.00	10.41	3.93		107.70	3.66	12.55	74.10	999.00	0.29	999.00	0.59	0.00
20 8 12 6	93.80	10.01	3.72	74.40	999.00	90.80	9.54	3.74	74.94	100.90	3.32	11.27	74.22	999.00	0.26	999.00	0.68	0.00
20 8 12 7	81.30	8.22	3.47	73.79	999.00	78.10	7.78	3.26	74.90	143.20	0.95	68.26	72.80	999.00	1.31	999.00	2.07	0.00
20 8 12 8	59.09	8.80	2.41	74.46	999.00	55.06	9.02	2.74	75.41	66.27	4.69	10.48	73.80	999.00	-0.20	999.00	0.47	0.00
20 8 12 9	62.90	9.52	4.76	75.55	999.00	59.10	9.26	5.82	75.78	71.80	5.97	13.48	76.75	999.00	-1.38	999.00	-0.41	0.00
				75.65	999.00			8.33	75.83	78.00		13.45	77.68					0.00
	63.69	9.06	6.99			63.01	9.04				6.98			999.00	-2.43	999.00	-0.98	
20 8 12 11	65.88	10.13	5.50	75.90	999.00	62.41	9.72	6.54	76.15	72.70	7.46	13.98	78.20	999.00	-2.45	999.00	-1.24	0.00
20 8 12 12	45.99	9.14	8.51	75.41	999.00	43.35	8.54	8.39	75.81	46.92	9.35	15.02	78.10	999.00	-3.03	999.00	-0.85	0.00
20 8 12 13	53.29	10.31	8.42	75.57		48.22	9.59	8.24	76.07	52.63	8.76	13.34	78.65	999.00	-3.27	999.00	-1.14	0.00
20 8 12 14	75.10	9.72	13.70	75.97	999.00	74.50	9.11	14.99	76.30	74.40	7.91	19.23	78.70	999.00	-2.90	999.00	-1.64	0.00
20 8 12 15	68.87	9.61	7.52	76.10	999.00	67.10	9.59	9.87	76.44	78.10	6.99	18.44	78.72	999.00	-2.67	999.00	-1.74	0.00
20 8 12 16	61.89	9.06	7.91	76.33	999.00	62.20	9.01	7.83	76.65	77.70	7.08	15.75	78.78	999.00	-2.15	999.00	-1.27	0.00
20 8 12 17	66.74	9.18	9.17	76.68	999.00	65.17	9.40	9.59	76.95	74.70	7.30	18.41	79.32	999.00	-2.66	999.00	-1.53	0.00
20 8 12 18	66.72	10.09	5.01	76.62	999.00	63.72	9.99	6.14	76.90	71.20	7.94	13.52	79.05	999.00	-2.37	999.00	-1.63	0.00
20 8 12 19	66.08	8.90	7.41	999.00	999.00	64.50	8.73	8.56	999.00	73.40	6.04	16.89	78.53	999.00	-2.39	999.00	-1.36	0.00
20 8 12 20	72.00	10.49	5.01	75.90	999.00	69.61	10.22	5.32	76.14	83.20	4.36	16.41	77.60	999.00	-1.08	999.00	-0.26	0.00
20 8 12 21	75.90	9.84	5.37	74.66	999.00	72.40	9.61	4.62	75.08	81.00	3.96	11.24	74.97	999.00	0.13	999.00	0.54	0.00
20 8 12 22	77.20	12.67	5.07	73.86	999.00	74.60	12.44	5.48	74.51	86.20	5.06	12.65	73.60	999.00	0.27	999.00	0.69	0.00
20 8 12 23	71.80	12.23	4.77	999.00	999.00	69.03	11.92	5.01	999.00	74.60	5.27	10.82	73.57	999.00	0.27	999.00	0.75	0.00
20 8 12 24	75.70	12.49	2.96	73.67	999.00	72.90	12.14	3.32	74.30	81.90	4.92	11.64	73.43	999.00	0.29	999.00	0.67	0.00
20 8 13 1	80.90	11.46	4.67		999.00	78.00	10.63	4.97	74.34		3.81	12.86		999.00		999.00	0.75	0.00
20 8 13 2	87.60	10.75	3.99			85.80	10.07		999.00	93.00	3.48	12.21		999.00		999.00	0.74	0.00
20 8 13 3	87.60	12.03	3.66		999.00	84.70	11.47	4.21	74.37	92.90	4.29	12.50		999.00		999.00	0.80	0.00
20 8 13 4	95.50	9.94	4.60		999.00	93.20	9.42	5.33		103.90	2.95	11.95		999.00		999.00	0.67	0.00
20 8 13 5	93.20	9.21	5.34		999.00	91.30	8.11	5.57		190.40	2.78	23.91		999.00		999.00	3.45	0.00
20 8 13 6	75.20	8.62	5.09		999.00	75.60	6.62	8.39		247.10	1.72	57.11		999.00		999.00	5.92	0.00
20 8 13 6																		
	63.50	11.41	3.90		999.00	60.40	11.02	4.97		77.20	4.32	11.23		999.00		999.00	1.04	0.00
20 8 13 8	49.33	8.88	7.24	12.84	999.00	46.67	8.38	1.19	73.91	38.95	3.66	45.20	12.10	999.00	0.19	999.00	0.72	0.00

20	8 13 9	28.21	10.40	7.13	72.84	999.00	24.14	9.06	7.76	73.91	24.74	8.70	11.13	72.10	999.00	-2.28	999.00	-0.25	0.00
20	8 13 10	38.48	9.37	8.39	73.48	999.00	36.27	8.05	9.50	73.73	38.70	8.77	11.36	76.25	999.00	-3.13	999.00	-0.47	0.00
20	8 13 11	37.05	9.36	10.55	73.76	999.00	34.06	7.84	10.94	74.14	35.37	8.52	13.93	76.70	999.00	-3.01	999.00	-0.57	0.00
20	8 13 12	50.86	8.68	10.65	75.00	999.00	46.99	8.23	9.66	75.46	53.50	8.85	15.17	77.90	999.00	-2.89	999.00	-0.47	0.00
	8 13 13	43.08	8.90	8.97	75.54	999.00	41.00	8.03	8.59	76.02	51.85	8.31	14.12	78.38	999.00	-2.52	999.00	-0.92	0.00
	8 13 14	63.44	12.44	9.63	75.74	999.00	60.41	12.40	10.19	76.01	67.91	10.40	16.80	78.78	999.00	-3.19	999.00	-1.68	0.00
	8 13 15	65.32	12.20	8.43	75.74	999.00	63.21	11.84	10.18	76.01	71.70	9.48	15.92	78.78	999.00	-2.99	999.00	-1.90	0.00
	8 13 16	59.34	10.20	8.73	76.02	999.00	56.79	10.43	9.81	76.42	59.16	9.78	13.29	78.78	999.00	-2.99	999.00	-1.68	0.00
			12.57	4.39	76.36	999.00		12.32	5.20	76.79	59.27		12.39	79.28	999.00	-3.09	999.00		0.00
20		59.70					55.72					10.30						-1.85	
	8 13 18	68.70	11.61	6.34	76.54	999.00	67.69	11.43	8.05	76.85	77.20	7.75	16.25	79.20	999.00		999.00	-1.67	0.00
	8 13 19	55.22	12.26	5.83	77.45	999.00	51.62	11.51	6.12	77.83	63.26	7.91	14.04	79.93	999.00	-2.44	999.00	-1.36	0.00
20	8 13 20	59.75	13.27	3.71	77.94	999.00	56.26	12.27	5.44	78.18	67.42	7.10	11.28	79.65	999.00	-1.24	999.00	-0.67	0.00
20		53.52	13.26	4.94	77.94	999.00	49.91	12.78	5.03	78.18	59.47	8.11	9.60	79.65	999.00	-0.52	999.00	-0.46	0.00
20	8 13 22	59.27	14.04	4.12	77.38	999.00	55.73	12.95	4.30	77.61	64.21	7.70	11.05	77.88	999.00	-0.52	999.00	-0.39	0.00
20	8 13 23	51.44	12.56	5.12	76.64	999.00	47.58	11.51	6.51	76.88	56.91	7.40	11.71	77.18	999.00	-0.62	999.00	-0.60	0.00
20	8 13 24	34.36	12.55	7.66	76.89	999.00	31.51	10.28	8.88	77.10	33.27	9.87	9.02	77.63	999.00	-1.04	999.00	-1.02	0.00
20	8 14 1	43.64	15.76	5.97	76.63	999.00	40.84	13.36	6.70	76.88	49.33	10.08	11.23	77.70	999.00	-0.95	999.00	-0.74	0.00
20	8 14 2	45.43	15.84	6.15	76.38	999.00	41.86	13.51	7.03	76.60	50.04	10.43	11.90	77.20	999.00	-0.86	999.00	-0.78	0.00
20	8 14 3	49.91	15.00	5.61	75.86	999.00	45.58	13.19	6.01	76.07	54.29	9.33	11.02	76.72	999.00	-0.86	999.00	-0.78	0.00
20	8 14 4	56.89	17.89	5.37	75.76	999.00	53.47	16.50	6.94	75.97	61.68	11.24	11.84	76.55	999.00	-0.82	999.00	-0.71	0.00
20	8 14 5	70.30	17.34	4.61	75.63	999.00	67.80	16.61	5.59	75.85	72.40	9.17	12.98	76.38	999.00	-0.56	999.00	-0.39	0.00
20	8 14 6	74.90	13.08	3.63	75.32	999.00	69.46	12.20	3.94	75.58	71.90	5.78	11.76	75.85	999.00	-0.35	999.00	-0.07	0.00
20	8 14 7	73.40	15.05	4.11	75.52	999.00	70.70	14.19	5.35	75.82	79.20	6.01	13.98	75.77	999.00	-0.43	999.00	-0.25	0.00
20	8 14 8	92.90	13.90	4.66	75.58	999.00	88.20	12.62	6.01	75.78	89.70	5.36	17.25	76.30	999.00	-0.86	999.00	-0.61	0.00
20	8 14 9	88.00	14.01	5.07	75.94	999.00	84.70	12.58	8.24	76.15	88.70	6.51	18.58	77.43	999.00	-2.13	999.00	-1.38	0.00
	8 14 10	104.70	11.68	9.64	76.38	999.00	100.40	11.44	9.30	76.64	107.60	7.03	14.51	78.72	999.00	-2.60	999.00	-1.45	0.00
20		92.70	8.29				87.20		10.90		95.90	5.67	18.97	79.53	999.00		999.00	-1.43	0.00
	8 14 11			9.18	77.10	999.00		8.20		77.45						-2.38			
	8 14 12	80.00	10.58	9.53	77.56	999.00	75.80	10.31	10.94	77.88	68.21	9.40	13.39	80.18	999.00	-2.73	999.00	-1.55	0.00
20		85.30	8.49	9.86	77.84	999.00	75.50	8.56	9.17	78.15	75.10	7.93	12.67	80.57	999.00	-2.63	999.00	-1.55	0.00
	8 14 14	52.58	14.51	7.63	78.18	999.00	47.22	13.60	8.04	78.50	54.90	12.30	13.99	81.30	999.00	-3.43	999.00	-1.70	0.00
	8 14 15	62.91	17.81	5.31	77.02	999.00	59.54	17.29	6.29	77.36	66.27	11.56	12.38	80.00	999.00	-2.63	999.00	-1.98	0.00
	8 14 16	69.96	26.68	3.08	76.87	999.00	67.16	24.93	5.18	77.08	72.40	14.98	12.40	78.90	999.00	-1.83	999.00	-1.63	0.00
20	8 14 17	64.38	25.09	3.46	76.87	999.00	62.32	23.51	5.25	77.01	70.50	14.98	11.05	78.55	999.00	-1.55	999.00	-1.23	0.00
20		77.40	22.11	5.14	77.13	999.00	74.70	20.15	6.71	77.31	84.30	9.88	14.82	78.30	999.00	-0.74	999.00	-0.61	0.00
20	8 14 19	73.90	23.45	4.11	77.24	999.00	71.00	22.13	5.09	77.43	77.30	11.30	14.76	78.20	999.00	-0.93	999.00	-0.73	0.00
20	8 14 20	77.40	21.69	4.69	999.00	999.00	75.40	19.90	6.04	999.00	84.90	9.68	14.54	77.95	999.00	-0.77	999.00	-0.60	0.00
20	8 14 21	202.60	7.61	51.00	999.00	999.00	213.00	7.65	51.05	999.00	242.20	5.67	31.43	77.95	999.00	-1.02	999.00	-0.65	0.00
20	8 14 22	87.70	13.11	10.69	77.20	999.00	83.80	12.25	11.63	77.50	93.50	6.67	22.55	78.08	999.00	-0.71	999.00	-0.51	0.00
20	8 14 23	99.70	13.18	6.75	77.01	999.00	96.30	12.35	7.87	77.34	108.20	5.67	17.03	77.68	999.00	-0.66	999.00	-0.44	0.00
20	8 14 24	103.40	16.50	7.36	76.78	999.00	101.10	14.99	8.06	77.08	112.10	7.37	15.58	77.58	999.00	-0.81	999.00	-0.47	0.00
20	8 15 1	97.30	18.46	4.54	76.57	999.00	92.60	17.15	6.66	76.90	100.60	7.00	17.95	77.22	999.00	-0.66	999.00	-0.36	0.00
20	8 15 2	85.20	13.19	8.26	76.12	999.00	81.50	12.42	8.74	76.47	83.30	5.55	15.64	76.72	999.00	-0.55	999.00	-0.23	0.00
20	8 15 3	76.50	18.99	4.78		999.00	72.90	18.04	5.08	76.20	77.40	8.84	13.45		999.00		999.00	-0.30	0.00
	8 15 4	84.50	14.89	3.58		999.00	81.20	14.12	4.31	76.20	87.60	6.20	14.51		999.00		999.00	-0.15	0.00
20	8 15 5	67.33	11.27	5.67		999.00	66.26	10.73	6.10	75.74	84.50	4.82	16.05		999.00		999.00	-0.06	0.00
	8 15 6	60.22	9.35	4.98		999.00	57.00	8.97	5.47	75.49	66.90	4.78	16.60		999.00		999.00	-0.33	0.00
	8 15 7	42.69	6.30	8.67		999.00	41.06	5.43	7.52	75.28	40.80	4.13	10.40		999.00		999.00	-0.68	0.00
	8 15 8	36.51	8.42	8.40		999.00	35.25	6.97	9.17	75.24	47.80	5.63	13.58		999.00		999.00	-0.74	0.00
	8 15 9	39.35	8.53	5.78		999.00	38.48	7.03	7.22	75.17	51.93	5.88	10.69		999.00		999.00	-0.77	0.00
	8 15 10	58.53	7.67	9.49		999.00	54.22	7.29	11.03	75.16	63.61	5.45	14.41		999.00		999.00	-1.03	0.00
	8 15 11	68.72	6.72	8.86		999.00	66.86	6.30	12.79	75.55	75.50	5.45	16.42		999.00		999.00	-1.22	0.00
20	8 15 12	21.57	5.63	19.11	76.28	999.00	19.22	5.01	23.47	76.63	7.27	4.85	21.10	79.28	999.00	-3.34	999.00	-0.07	0.00

2.0	8 15 13	35.43	6.24	15.55	76.46	999.00	33.41	5.74	16.63	76.72	31.83	6.45	25.40	79.85	999.00	-3.56	999.00	0.04	0.00
	8 15 14	31.77	7.17	12.99	76.80	999.00	25.58	6.35	12.34	77.18	22.63	6.60	17.99	80.07	999.00		999.00	-0.05	0.00
20	8 15 15	58.10	7.71	11.18	76.96	999.00	56.03	7.87	9.64	77.33	62.82	7.07	17.83	80.25	999.00	-3.08	999.00	-1.34	0.00
20	8 15 16	46.11	7.34	14.36	77.85	999.00	38.97	6.65	12.67	78.24	39.76	7.65	13.63	81.05	999.00	-3.16	999.00	-0.59	0.00
20	8 15 17	53.55	7.47	11.38	78.24	999.00	50.39	7.80	12.36	78.64	60.86	7.11	18.13	81.10	999.00	-2.56	999.00	-1.33	0.00
20	8 15 18	60.86	7.98	9.78	78.55	999.00	59.83	8.10	11.93	78.90	66.49	7.36	16.92	81.17	999.00	-2.63	999.00	-1.25	0.00
20	8 15 19	71.20	9.00	6.13	78.18	999.00	70.70	9.07	6.97	78.58	84.30	6.78	14.27	80.73	999.00	-2.37	999.00	-1.46	0.00
20	8 15 20	80.40	8.76	5.63	77.32	999.00	74.10	8.18	7.49	77.53	80.30	4.37	15.41	79.07	999.00	-1.32	999.00	-0.93	0.00
20	8 15 21	150.90	9.07	7.38	77.32	999.00	146.20	8.05	6.79		145.60	2.70	28.62	79.07	999.00	-0.37	999.00	-0.28	0.00
20	8 15 22	165.80	13.79	4.12	74.86	999.00	161.20	12.36	4.73		168.60	4.55	19.10	75.40	999.00	-0.56	999.00	-0.46	0.00
20	8 15 23	154.80	16.86	4.26	72.58		150.20	13.72	5.74		159.10	4.73	22.09	72.80	999.00	-0.07	999.00	-0.35	0.00
	8 15 24		16.72	4.44	71.37		159.10	14.44	5.89		169.40	5.57	19.82	72.18	999.00	-0.96	999.00	-0.83	0.00
20	8 16 1		18.04	4.76	69.90		159.10	15.19	6.01		168.60	6.22	23.51	70.93	999.00	-1.02	999.00	-0.86	0.00
20	8 16 2		18.41	3.30	68.90		164.10	16.57	4.21		175.30	6.33	20.20	69.84	999.00	-0.91	999.00	-0.77	0.00
20		172.70	16.45	3.58	67.50	999.00		14.51	5.41		186.50	6.34	18.01	68.34	999.00	-0.80	999.00	-0.73	0.00
20	8 16 4	169.80	14.95	2.94	66.50		166.70	13.22	3.46		178.70	5.05	19.65	67.14	999.00	-0.69	999.00	-0.59	0.00
20	8 16 5	175.40	16.16	3.98	65.70		172.40	14.10	5.67		181.50	6.27	17.43	66.42	999.00	-0.92	999.00	-0.86	0.00
20		171.40	18.38	3.62	64.86		168.90	15.63	4.64		181.00	6.44	20.18	65.65	999.00		999.00	-0.79	0.00
20	8 16 7		19.23	2.96	64.45		168.30	17.14	3.71		180.50	7.19	18.32	65.27	999.00	-0.83	999.00	-0.81	0.00
20		186.30	15.24	5.34	64.16	999.00		13.76	6.49		196.40	7.18	16.51	65.53	999.00		999.00	-1.07	0.00
20	8 16 9		13.10	5.49 5.82	64.76 66.22		183.10 212.50	12.56	6.91		196.40	7.69 6.86	15.75 15.37	66.66	999.00		999.00	-1.15	0.00
20 20	8 16 10 8 16 11		12.02 6.48	5.01	65.64	999.00	297.50	11.34 6.16	7.09 5.70		218.50 308.80	3.62	16.69	68.18 66.25	999.00 999.00	-0.17	999.00 999.00	-1.08 -1.72	0.00
20	8 16 12		3.69	57.92	65.25	999.00		4.25	28.84		184.60	3.68	22.98	65.79	999.00	-0.17	999.00	-1.72	0.00
20	8 16 13		6.28	11.87	66.58	999.00		6.44	9.53		148.20	4.17	25.57	67.18	999.00	-0.87	999.00	-1.53	0.00
20	8 16 14	134.90	3.18	16.45	68.79	999.00	135.40	3.40	17.19		140.20	2.62	18.03	69.61	999.00	-0.47	999.00	-1.02	0.00
20	8 16 15	113.90	4.52	14.26	71.36	999.00	113.60	5.14	14.79		133.80	4.13	23.71	71.95	999.00	-0.04	999.00	-3.21	0.00
20	8 16 16		3.38	32.88	75.93		137.20	3.50	32.57		197.80	3.44	41.85	74.93	999.00	0.94		5.80	0.00
20	8 16 17	69.18	6.34	19.79	74.36	999.00	67.58	6.83	20.99	74.18	75.60	5.71	25.35	76.57	999.00	-3.13	999.00	-1.66	0.00
20	8 16 18	57.96	3.96	19.24	74.98	999.00	62.21	3.85	23.55	75.33	81.20	3.54	32.86	77.43	999.00	-2.14	999.00	0.42	0.00
20	8 16 19	101.90	2.88	39.18	75.10	999.00	108.70	3.22	22.27	75.69	106.10	2.81	19.06	78.07	999.00	-3.32	999.00	-3.00	0.00
	8 16 20	328.10	1.90	31.06	75.45	999.00	307.70	1.61	40.50		188.80	1.22	82.50	77.53	999.00	-2.00	999.00	-0.45	0.00
20	8 16 21	355.80	1.20	51.24	74.63	999.00	37.42	0.79	39.28		124.00	1.70	8.93	75.68	999.00	-0.55	999.00	-0.90	0.00
20	8 16 22	306.50	4.48	3.02	73.72	999.00	296.50	4.02	4.67	74.21	274.30	3.49	3.25	73.70	999.00	0.32	999.00	0.90	0.00
20	8 16 23	358.00	14.74	11.17	74.26	999.00	355.10	14.22	10.43	74.83	358.20	9.95	10.07	74.25	999.00	-0.93	999.00	-0.88	0.00
20	8 16 24	32.84	9.97	8.58	73.52	999.00	30.15	8.50	9.13	73.78	36.79	7.75	12.60	74.38	999.00	-0.94	999.00	-0.86	0.00
20	8 17 1	57.46	9.22	4.01	72.82	999.00	54.72	9.52	3.79	73.10	71.20	5.59	10.51	73.52	999.00	-0.58	999.00	-0.24	0.00
20	8 17 2	101.90	6.42	8.76	71.86	999.00	100.10	6.25	9.11	72.28	120.60	2.33	15.35	72.02	999.00	-0.09	999.00	0.26	0.00
20	8 17 3	145.40	5.78	5.52	70.75	999.00	152.80	6.34	2.36	71.97	222.00	3.02	8.21	69.47	999.00	1.92	999.00	3.48	0.00
20	8 17 4		7.13	3.19	69.59	999.00	161.60	7.78	3.39	71.55	208.10	2.22	14.92	67.08	999.00	2.86	999.00	4.73	0.00
20	8 17 5		9.74	1.83	68.77	999.00	180.20	11.56	1.66	70.67	196.60	3.67	18.30	65.75	999.00	3.24		4.40	0.00
	8 17 6		14.00	3.73	66.59	999.00	218.80	13.13	3.85	66.49	214.80	4.85	10.79	64.43	999.00	2.11	999.00	2.07	0.00
	8 17 7		16.40	1.39	65.97		217.70	15.33	1.43	67.18	208.20	4.59	11.65	63.74	999.00		999.00	4.22	0.00
	8 17 8		14.51	2.09		999.00		12.94	2.61		209.50		11.67		999.00	1.94		3.69	0.00
	8 17 9		10.24	2.44		999.00		7.50	5.40		224.90		11.87		999.00		999.00	-0.21	0.00
	8 17 10		5.98	8.62		999.00			10.11		217.10		12.46		999.00		999.00	-1.12	0.00
	8 17 11		8.80	7.40		999.00		8.49	6.39		233.30		10.83		999.00		999.00	-1.35	0.00
	8 17 12		9.87	6.34		999.00		9.86	5.70		225.10	7.82	13.39		999.00		999.00	-1.90	0.00
	8 17 13		9.07	9.18		999.00		8.99	9.15		228.80	7.01	11.57		999.00		999.00	-1.35	0.00
	8 17 14		5.21	46.60		999.00		5.00	39.00		348.40	4.31	38.72		999.00		999.00	-1.33	0.00
	8 17 15		7.28	20.79		999.00			18.54		342.60		13.33		999.00		999.00	-1.11	0.00
20	8 17 16	353.10	6.38	14.69	/6.55	999.00	35/.80	6.26	15.26	/6.6I	11.77	6.14	15.27	80.20	999.00	-3.65	999.00	-0.09	0.00

20 8 17 17		5.16	18.62		999.00	61.72	5.24	16.80	77.56	72.40	5.34	21.45		999.00		999.00	-0.78	0.00
	279.60	5.06	31.94	77.79	999.00	281.10	4.96	32.73		305.20	4.21	41.19	80.82	999.00	-3.32	999.00	-1.73	0.00
20 8 17 19	314.80	4.88	40.88	77.85	999.00	326.80	4.35	46.89	78.10	65.44	3.16	63.84	80.20	999.00	-1.74	999.00	-0.74	0.00
20 8 17 20	315.20	18.41	5.04	78.00	999.00	312.60	17.13	6.39	78.23	319.10	10.84	12.06	79.80	999.00	-1.49	999.00	-0.85	0.00
20 8 17 21	329.10	15.39	4.98	77.35	999.00	327.70	14.83	5.43	77.64	335.10	8.70	9.27	78.13	999.00	-0.36	999.00	-0.02	0.00
20 8 17 22	327.50	15.71	3.40	76.49	999.00	324.50	14.74	4.34	77.04	327.40	7.82	10.90	76.45	999.00	0.17	999.00	0.56	0.00
20 8 17 23	298.90	8.76	11.83	75.79	999.00	281.20	7.56	14.93	76.56	230.50	6.17	7.50	75.17	999.00	1.60	999.00	3.26	0.00
20 8 17 24	294.40	13.25	2.13	73.26	999.00	288.60	13.61	2.11	75.48	268.20	4.65	6.02	70.64	999.00	3.03	999.00	5.61	0.00
	313.80	15.45	5.66	72.24	999.00	310.00	13.73	6.91		286.10	5.99	11.90	70.17		1.24	999.00	2.36	0.00
20 8 18 2		15.29	4.35	71.92	999.00	318.00	14.32	5.19		315.40	7.54	12.19	71.93	999.00	-0.22	999.00	0.25	0.00
20 8 18 3		20.04	7.10	71.23	999.00	15.95	17.01	7.87	71.57	21.10	14.19	11.61	71.85	999.00	-1.12	999.00	-1.06	0.00
20 8 18 4		15.96	6.11	71.52	999.00	15.03	13.50	7.80	71.78	20.18	10.60	12.01	72.65	999.00	-1.18	999.00	-1.08	0.00
20 8 18 5		14.45	12.88	70.04	999.00	1.66	13.36	13.62	70.30	6.16	10.22	12.39	71.30	999.00	-1.29	999.00	-1.20	0.00
20 8 18 6		16.38	10.45	69.58	999.00	5.07	15.19	11.75	69.83	12.19	10.22	12.42	70.75	999.00	-1.16	999.00	-1.11	0.00
20 8 18 7		16.77	10.43	68.72	999.00	3.55	15.53	9.86	68.97	8.45	13.02	10.57	69.94	999.00	-1.24	999.00	-1.19	0.00
		12.23		68.72		355.20			68.97	2.21	9.81	10.57	69.94	999.00	-2.06		-0.94	0.00
			12.05		999.00		11.73	11.34								999.00		
20 8 18 9		9.52	7.36	67.77	999.00	347.10	9.37	9.35	68.00	357.10	7.87	12.71	70.17		-2.62	999.00	-0.96	0.00
	336.70	13.63	6.66	68.19	999.00	332.60	13.37	6.88		339.90	10.81	10.14	71.07	999.00	-2.99	999.00	-1.68	0.00
	338.00	12.93	7.14	67.03	999.00	333.60	12.85	8.62		337.80	10.81	15.03	69.95	999.00	-2.92	999.00	-1.78	0.00
	324.50	11.81	12.04	66.93	999.00	322.20	11.76	13.30		333.80	9.87	13.81	69.91	999.00	-2.94	999.00	-1.82	0.00
	317.40	13.51	8.78	68.23	999.00	312.80	13.78	9.24		316.90	11.26	16.45	71.38	999.00	-3.03	999.00	-2.37	0.00
	322.40	14.15	9.66	69.06	999.00	320.60	14.17	11.39		332.30	11.32	17.69	72.32	999.00	-3.35	999.00	-1.83	0.00
	340.20	11.36	10.31	69.11	999.00	337.20	11.34	10.70		348.00	9.89	16.25	72.40	999.00	-3.48	999.00	-1.43	0.00
20 8 18 16		9.81	12.20	69.67	999.00	335.40	9.56	11.91		343.20	7.92	20.07	73.25	999.00	-3.45	999.00	-1.11	0.00
20 8 18 17	355.10	6.91	15.42	69.67	999.00	354.60	6.45	17.09	69.89	5.90	5.05	32.61	73.25	999.00	-3.65	999.00	-0.86	0.00
20 8 18 18	332.60	5.69	15.91	71.08	999.00	327.80	5.80	14.92	71.33	340.10	3.99	28.02	74.65	999.00	-3.64	999.00	-1.25	0.00
20 8 18 19	315.10	7.07	11.89	71.41	999.00	307.10	6.92	12.86	71.67	313.10	5.21	19.17	74.53	999.00	-2.86	999.00	-2.04	0.00
20 8 18 20	321.30	7.50	14.90	71.71	999.00	314.50	6.90	12.85	71.97	307.60	4.02	17.26	73.73	999.00	-1.40	999.00	-0.88	0.00
20 8 18 21	39.38	5.93	7.67	71.75	999.00	40.73	5.32	6.69	72.08	78.40	2.68	18.91	72.75	999.00	-0.23	999.00	0.06	0.00
20 8 18 22	52.55	8.71	9.53	71.27	999.00	50.96	8.54	9.15	71.60	73.00	5.89	10.49	71.80	999.00	-0.62	999.00	-0.29	0.00
20 8 18 23	46.69	14.26	5.58	70.37	999.00	45.13	13.43	6.22	70.64	56.85	10.40	11.48	71.45	999.00	-1.26	999.00	-0.97	0.00
20 8 18 24	30.96	8.55	11.62	999.00	999.00	29.91	7.14	11.63	999.00	31.60	6.72	14.61	70.73	999.00	-0.82	999.00	-0.93	0.00
20 8 19 1	77.00	11.94	6.50	69.39	999.00	75.10	11.69	6.87	69.74	90.40	4.99	15.26	69.85	999.00	-0.10	999.00	0.31	0.00
20 8 19 2	54.36	9.98	6.56	68.79	999.00	50.53	9.95	7.17	69.19	64.97	6.06	10.99	69.04	999.00	-0.46	999.00	-0.35	0.00
20 8 19 3	53.51	11.94	6.43	68.05	999.00	49.04	11.66	6.89	68.40	60.14	8.37	10.82	68.58	999.00	-0.88	999.00	-0.73	0.00
20 8 19 4	53.11	11.73	7.02	66.88	999.00	49.18	11.25	7.08	67.13	58.89	8.54	10.90	67.91	999.00	-0.97	999.00	-0.83	0.00
20 8 19 5	42.76	10.76	9.18	66.42	999.00	42.74	9.93	8.91	66.68	56.64	8.15	13.42	67.22	999.00	-0.82	999.00	-0.81	0.00
20 8 19 6		9.91	9.32	66.36	999.00	39.55	8.95	9.65	66.64	52.28	7.22	13.91	67.21	999.00	-0.80	999.00	-0.83	0.00
20 8 19 7		7.67	11.37	66.20	999.00	37.97	6.86	11.66	66.48	50.59	6.24	16.53	67.08	999.00	-0.79	999.00	-0.72	0.00
20 8 19 8		7.45	11.92	66.45	999.00	31.00	6.81	14.15	66.72	38.24	6.36	17.84	67.73	999.00	-1.76	999.00	-0.47	0.00
20 8 19 9		9.84	6.72	66.94	999.00	23.53	8.47	6.86	67.21	30.77	7.95	9.34	69.19	999.00	-2.43	999.00	-0.16	0.00
20 8 19 10		8.57	10.09	67.19	999.00	28.71	7.80	11.47	67.43	33.01	8.27	12.48	69.99	999.00	-2.90	999.00	0.04	0.00
20 8 19 11		9.51	10.42		999.00	28.35	8.38	11.23	67.70	32.32	8.64	10.15		999.00		999.00	-0.38	0.00
20 8 19 12			11.87		999.00	21.81		13.26	68.06	30.00	8.40	17.11		999.00		999.00	-0.16	0.00
20 8 19 13					999.00													
20 8 19 13		8.46 8.32	15.07 17.87		999.00	28.18 27.97	7.87 7.90	15.90 18.91	68.34 68.35	33.50 28.18	7.84 7.59	14.82 23.00		999.00 999.00		999.00 999.00	-0.61 -0.91	0.00
20 8 19 15		8.59	7.94		999.00	47.57	8.32	8.80	68.87	52.48	8.09	16.54		999.00		999.00	-1.38	0.00
20 8 19 16		8.88	12.69		999.00	74.90	8.87	13.19	69.21	87.30	6.69	18.57		999.00		999.00	-1.88	0.00
20 8 19 17		7.89	13.38		999.00	67.04	7.93	14.32	69.53	84.10	6.04	20.18		999.00		999.00	-1.46	0.00
20 8 19 18		8.13		999.00		95.20	8.07		999.00		5.36	28.28		999.00		999.00	-1.71	0.00
20 8 19 19		6.32		999.00		88.80	6.25		999.00		4.14	24.91		999.00		999.00	-1.47	0.00
20 8 19 20	104.40	7.73	8.69	69.72	999.00	100.90	7.56	9.14	70.04	T08.80	3.80	13.37	/1.43	999.00	-1.27	999.00	-0.46	0.00

00 0 10 01 100 00	0 00 5 0		000 00 104 00	6.66	0 54	60 50	100 00	0 00	60 70	60 70	000 00	0 10	000 00	0 01	0 00
20 8 19 21 122.80	8.00 5.9		999.00 124.20	6.66	8.54	69.58		2.33	60.70		999.00		999.00	0.91	0.00
20 8 19 22 133.60	9.57 3.4		999.00 133.40	10.15	1.93	69.22		2.52	19.71	67.30	999.00	1.21	999.00	2.25	0.00
20 8 19 23 141.70	13.75 0.5		999.00 141.20	13.35	0.57	68.33		2.24	21.64	65.71	999.00	1.49	999.00	2.27	0.00
20 8 19 24 143.90	13.56 1.9		999.00 147.30 999.00 135.10	10.56	3.69	66.80 1 66.01		2.35	21.11	64.45	999.00	1.69	999.00	1.73	0.00
20 8 20 1 133.40	11.54 1.6			9.80	1.92			1.97	30.72	63.55	999.00	1.55	999.00	2.14	0.00
20 8 20 2 148.00 20 8 20 3 155.10	11.64 1.5		999.00 152.40 999.00 155.80	8.89	1.71	65.14 2 65.17		2.00	11.97 11.24	62.39	999.00	2.33	999.00	2.63	0.00
	10.28 0.8 8.74 0.7		999.00 133.80	9.87 8.45	0.58 0.81	66.02		2.68 2.85	5.91	61.40 60.97	999.00 999.00	3.17 3.62	999.00 999.00	5.02 4.55	0.00
20 8 20 4 164.10 20 8 20 5 167.40	8.74 0.7 11.32 1.3		999.00 169.60	9.48	1.61	64.09		2.54	12.75	59.07	999.00	3.99	999.00	3.64	0.00
	13.34 2.1		999.00 169.30		2.23	63.63		2.20	19.09	58.70	999.00		999.00	4.55	0.00
20 8 20 6 171.50 20 8 20 7 173.90	14.65 0.9		999.00 177.60	12.65 10.22	3.95	61.53		3.13	13.03	57.74	999.00	4.45 3.61	999.00	2.93	0.00
20 8 20 7 173.30	10.52 7.0		999.00 177.00	7.91	3.47	61.38		3.15	16.67	58.44	999.00	3.26	999.00	1.62	0.00
20 8 20 9 193.20	11.03 5.1		999.00 198.20	6.95	9.68	60.42		5.03	11.62	60.58	999.00	-0.18	999.00	-0.07	0.00
20 8 20 10 198.40	6.78 8.8		999.00 196.50	6.11	11.30	60.42		4.61	22.31	60.58	999.00	-2.75	999.00	-0.72	0.00
20 8 20 11 220.40	5.91 6.7		999.00 222.70	5.90	7.95	65.92		5.29	13.44	68.58	999.00	-2.90	999.00	-1.41	0.00
20 8 20 12 225.20	4.20 15.2		999.00 228.90	4.02	19.18	68.97		3.77	38.73	71.65	999.00	-3.18	999.00	-1.08	0.00
20 8 20 13 238.70	4.16 30.4		999.00 252.30	4.04	26.50	71.18		3.67	47.13	74.27	999.00	-3.61	999.00	-1.62	0.00
20 8 20 14 61.58	5.49 16.6		999.00 56.64	5.73	16.52	72.81	48.01	6.01	27.16	75.95	999.00	-3.37	999.00	-1.04	0.00
20 8 20 15 62.15	6.59 9.8		999.00 59.88	7.22	10.32	72.94	61.73	7.03	14.51	75.55	999.00	-3.11	999.00	-1.59	0.00
20 8 20 16 96.10	7.60 13.1		999.00 89.40	7.37	13.41	73.29		6.10	23.70	75.72	999.00	-2.84	999.00	-1.57	0.00
20 8 20 17 74.20	8.61 8.8		999.00 69.19	8.78	10.03	999.00	72.20	6.78	16.51	76.43	999.00	-2.89	999.00	-1.64	0.00
20 8 20 18 59.71	7.80 10.7		999.00 56.44	7.85	9.40	73.97	72.00	6.91	13.31	76.08	999.00	-2.26	999.00	-1.06	0.00
20 8 20 19 102.20	7.71 5.6		999.00 96.80	8.05	5.86	74.24		4.80	16.42	76.20	999.00	-2.22	999.00	-1.32	0.00
20 8 20 20 109.10	6.01 4.0		999.00 104.20	5.91	4.61	74.05		3.08	10.70	75.53	999.00	-1.25	999.00	-0.32	0.00
20 8 20 21 132.00	5.59 6.1		999.00 123.70	5.58	6.25	74.17		1.46	11.71	73.97	999.00	0.31	999.00	0.53	0.00
20 8 20 22 158.40	6.91 2.2		999.00 161.10	5.69	3.72	73.76		1.41	31.06	72.05	999.00	1.21	999.00	1.42	0.00
20 8 20 23 192.30	9.32 6.3		999.00 176.00	9.25	4.77	73.06		3.35	8.82	70.97	999.00	2.25	999.00	3.05	0.00
20 8 20 24 211.60	7.32 4.9		999.00 187.80	8.03	4.44	73.27	172.30	3.74	10.04	68.43	999.00	3.62	999.00	4.64	0.00
20 8 21 1 207.00	12.49 3.3		999.00 201.70	12.05	1.55	73.04	174.80	4.63	11.02	67.17	999.00	5.06	999.00	6.27	0.00
20 8 21 2 221.30	12.90 3.2	72.39	999.00 219.50	13.12	3.09	73.31	208.90	3.75	9.16	66.26	999.00	6.59	999.00	6.42	0.00
20 8 21 3 231.90	14.05 0.9	70.88	999.00 230.80	13.84	0.80	70.52	187.80	4.38	8.63	65.26	999.00	6.66	999.00	7.20	0.00
20 8 21 4 247.50	14.55 2.6	4 70.46	999.00 244.60	14.29	3.06	70.49	212.40	3.20	11.47	63.49	999.00	7.01	999.00	7.03	0.00
20 8 21 5 234.70	14.19 1.6	2 69.41	999.00 229.00	13.26	1.95	69.57	188.70	5.14	8.35	62.53	999.00	6.79	999.00	7.08	0.00
20 8 21 6 253.00	17.61 1.0	9 69.06	999.00 246.40	15.55	2.36	69.70	210.60	4.39	12.61	62.13	999.00	7.15	999.00	6.47	0.00
20 8 21 7 259.40	16.01 2.4	5 68.02	999.00 245.40	14.16	4.99	66.97	209.20	3.67	12.98	61.46	999.00	6.57	999.00	5.36	0.00
20 8 21 8 256.80	12.21 2.8	9 68.58	999.00 242.60	11.28	7.79	67.66	193.50	4.44	14.68	61.99	999.00	6.95	999.00	5.56	0.00
20 8 21 9 257.90	11.03 4.3		999.00 228.20	8.03	7.65	66.93		4.42	14.98	64.40	999.00	4.57	999.00	0.16	0.00
20 8 21 10 253.30	6.49 13.2		999.00 238.80	5.55	18.06	66.71		4.66	20.35	68.65	999.00	-2.70	999.00	-1.47	0.00
20 8 21 11 211.70	6.59 10.9		999.00 206.70	6.09	11.90		226.70	5.45	16.47	73.00	999.00	-3.08	999.00	-1.47	0.00
20 8 21 12 229.30	5.34 11.0		999.00 228.40	5.39	11.26	74.42		5.14	15.83	77.17	999.00	-3.25	999.00	-1.15	0.00
20 8 21 13 9.07	3.66 27.4		999.00 4.84	3.84	19.79		12.99	4.36	25.79	80.70	999.00	-3.79	999.00	0.50	0.00
20 8 21 14 15.31	5.95 8.1		999.00 13.91	6.39	9.12	77.71	24.37	6.92	10.47	81.07	999.00	-3.27	999.00	0.33	0.00
20 8 21 15 51.47	6.26 11.5			6.44	12.08	78.61	50.52	6.96	17.68		999.00		999.00	-1.42	0.00
20 8 21 16 66.41	6.42 10.6			6.52	12.28	79.05		5.76			999.00		999.00	-1.27	0.00
20 8 21 17 91.30	5.45 11.8			5.60	18.32	79.42		5.09	20.52		999.00		999.00	-1.34	0.00
20 8 21 18 104.10	6.72 3.3			6.77	3.48	79.42		4.68	16.66		999.00		999.00	-0.97	0.00
20 8 21 19 104.40	5.78 4.8			5.24	8.36	80.13		3.95	17.67		999.00		999.00	-0.82	0.00
20 8 21 20 149.40	5.66 5.0		999.00 134.30	5.89	4.61	80.87		2.75	8.73		999.00		999.00	1.82	0.00
20 8 21 21 149.30	8.37 1.9		999.00 145.40	9.00	2.32	80.64		1.41	27.97		999.00		999.00	2.48	0.00
20 8 21 22 156.40	12.26 5.8		999.00 150.50	12.14	3.19	80.09		1.48	22.24		999.00		999.00	3.61	0.00
20 8 21 23 215.40	10.95 1.9		999.00 212.50	10.84	1.73	78.80		3.81	8.68		999.00 999.00		999.00	5.54	0.00
20 8 21 24 214.40	14.78 1.3	0 /8.19	999.00 211.70	14.55	T.00	78.80	Z1U.5U	3.48	8.83	14.50	999.00	5.∠5	999.00	5.76	0.00

20	8 22 1	225.30	13.29	1.10	78.15	999.00	224.80	13.86	2.14	78.96	209.20	4.64	11.22	72.73	999.00	5.61	999.00	6.07	0.00
20	8 22 2	234.10	12.00	1.99	77.88	999.00	236.20	13.55	2.49	78.66	227.60	4.00	9.94	71.98	999.00	6.46	999.00	7.28	0.00
20	8 22 3	245.50	13.77	1.32	77.13	999.00	239.90	12.36	6.38	77.00	198.30	4.66	16.92	71.38	999.00	6.07	999.00	4.29	0.00
20	8 22 4	254.80	13.97	1.77	74.86	999.00	234.60	11.06	2.74	73.54	201.90	3.48	11.30	68.18	999.00	6.43	999.00	4.65	0.00
20	8 22 5	258.70	11.85	1.38	73.83	999.00	253.40	11.80	1.76	73.00	207.10	3.09	16.49	67.16	999.00	6.78	999.00	6.23	0.00
20	8 22 6	316.00	9.25	6.30	72.67	999.00	291.70	9.41	9.87	73.00	222.10	3.62	10.29	66.30	999.00	5.47	999.00	4.78	0.00
20	8 22 7	319.40	8.44	2.15	71.90	999.00	292.30	6.06	4.26	71.83	208.10	2.32	10.53	65.40	999.00	6.79	999.00	7.73	0.00
20	8 22 8	322.00	4.56	16.98	72.03	999.00	255.90	5.74	21.69		181.30	5.47	7.21	65.32	999.00	6.61	999.00	5.62	0.00
20	8 22 9	350.90	4.19	7.33	70.90	999.00	294.30	3.22	17.82		221.60	3.88	13.96	66.85	999.00	3.49	999.00	4.25	0.00
20	8 22 10		2.40	21.46	71.81	999.00	199.40	3.42	12.80		229.80	3.76	24.00	71.98	999.00	-2.44	999.00	-0.33	0.00
20	8 22 11		3.25	16.73	74.14	999.00	176.10	3.43	14.61		168.20	3.10	21.15	77.10	999.00	-3.38	999.00	0.60	0.00
20	8 22 12	151.10	2.80	45.27	78.21	999.00	163.60	2.85	46.48		184.00	2.50	55.98	81.68	999.00	-3.71	999.00	-0.40	0.00
20		22.34	6.91	8.07	79.24	999.00	16.95	6.45	8.22	79.84	17.22	6.81	12.32	82.68	999.00	-3.21	999.00	0.36	0.00
	8 22 14	23.26	7.14	6.66	78.92	999.00	15.58	6.67	6.91	79.34	26.25	7.61	8.37	82.05	999.00	-2.57	999.00	0.61	0.00
20	8 22 15	48.22	6.30	11.44	79.47	999.00	40.44	5.94	9.25	80.16	44.90	6.69	13.89	82.70	999.00	-3.47	999.00	-0.81	0.00
		61.55		10.14			58.74		10.92	81.15	70.00		18.30	83.78			999.00		0.00
20			6.65		80.48	999.00		7.01				6.36			999.00	-2.95		-1.15	
	8 22 17	60.37	11.15	5.91	79.71	999.00	54.55	10.52	7.25	80.17	66.28	8.17	14.41	82.35	999.00	-2.52	999.00	-1.51	0.00
	8 22 18	62.95	10.34	5.76	79.58	999.00	57.94	9.59	7.99	80.16	64.87	7.33	16.47	82.35	999.00	-2.63	999.00	-1.33	0.00
20	8 22 19	70.40	10.58	2.93	80.18	999.00	67.37	9.59	5.61	80.50	71.70	6.36	14.05	82.25	999.00	-2.07	999.00	-1.18	0.00
20	8 22 20	76.50	9.61	4.63	80.03	999.00	77.30	9.12	6.88	79.98	93.70	3.56	16.92	81.03	999.00	-0.17	999.00	0.03	0.00
20	8 22 21	98.30	9.16	0.71	79.36	999.00	93.00	8.93	1.82	79.29	96.50	2.88	9.97	78.45	999.00	1.52	999.00	1.62	0.00
20	8 22 22	120.10	8.16	5.50	78.71	999.00	115.30	7.00	3.16		143.20	2.09	9.77	77.68	999.00	1.24	999.00	1.38	0.00
20		141.20	11.21	2.34	77.74	999.00	144.30	10.73	3.00		154.10	2.11	16.90	75.85	999.00	2.33	999.00	2.68	0.00
20	8 22 24		15.28	2.77	77.08	999.00	152.20	13.61	1.73		137.60	2.32	18.03	74.03	999.00	4.00	999.00	3.47	0.00
20	8 23 1		14.55	3.86	77.08	999.00	198.50	11.92	4.30		175.50	3.42	11.74	74.03	999.00	2.72	999.00	2.56	0.00
20	8 23 2	226.20	12.96	1.79	75.66	999.00	221.60	11.71	2.50	76.31	191.10	3.98	13.05	72.47	999.00	2.86	999.00	3.89	0.00
20	8 23 3	196.90	11.96	2.69	74.10	999.00	183.20	12.48	2.59	75.08	174.70	4.24	14.15	71.27	999.00	2.77	999.00	3.38	0.00
20	8 23 4	210.50	12.10	1.35	73.32	999.00	196.80	12.27	1.03	74.02	202.30	4.53	9.35	70.25	999.00	3.28	999.00	3.54	0.00
20	8 23 5	205.00	15.83	4.05	72.22	999.00	193.90	15.64	4.01	71.49	201.50	5.24	12.77	69.49	999.00	2.75	999.00	1.78	0.00
20	8 23 6	208.10	15.50	1.61	71.96	999.00	196.30	15.83	1.69	71.12	195.80	5.29	11.59	69.07	999.00	3.05	999.00	1.86	0.00
20	8 23 7	231.20	14.31	2.04	71.11	999.00	221.20	12.63	2.11	70.06	211.20	3.79	14.69	68.32	999.00	2.90	999.00	1.32	0.00
20	8 23 8	210.70	15.75	2.75	69.33	999.00	201.10	12.13	5.30	68.38	206.80	4.99	16.58	67.87	999.00	0.25	999.00	-0.33	0.00
20	8 23 9	225.00	11.08	4.72	68.20	999.00	219.30	9.23	6.09	68.03	219.10	6.60	11.36	69.66	999.00	-1.98	999.00	-1.29	0.00
20	8 23 10	245.70	8.44	6.77	69.57	999.00	240.80	8.46	6.77	69.92	241.60	7.31	14.16	72.40	999.00	-2.91	999.00	-1.61	0.00
20	8 23 11	228.40	7.46	13.91	72.63	999.00	225.50	6.83	15.32	72.95	225.60	5.88	16.45	75.53	999.00	-2.89	999.00	-1.34	0.00
20	8 23 12	233.90	6.57	9.20	76.44	999.00	232.60	6.51	9.50		241.10	6.14	12.74	79.75	999.00	-3.31	999.00	-1.48	0.00
	8 23 13	32.61	5.31	13.48	79.37	999.00	27.57	5.05	12.81	79.91	25.72	6.50	11.52	82.95	999.00	-3.40	999.00	0.64	0.00
	8 23 14	3.05	5.56	16.79	80.04	999.00	3.96	5.54	17.72	80.44	15.68	6.20	12.48	83.70	999.00	-3.65	999.00	0.48	0.00
20		23.79	5.12	11.24	80.68	999.00	23.30	4.99	12.69	81.10	26.86	6.20	13.02	84.02	999.00	-3.46	999.00	-0.08	0.00
20		49.05	5.18	14.10	81.95	999.00	49.20	5.22	14.74	82.32	47.28	5.68	23.52	85.48	999.00	-3.62	999.00	-0.79	0.00
20		78.40	6.90	4.94	81.75	999.00	75.50	6.96	6.51	82.19	82.30	5.82	14.88	84.22	999.00	-2.38	999.00	-1.41	0.00
20	8 23 18	97.10	6.95	9.56	999.00	999.00	93.50	6.47	13.12	999.00	102.50	4.81	17.09	83.73	999.00	-2.49	999.00	-1.35	0.00
	8 23 19		7.35	4.42		999.00	110.60	6.23	4.61		111.00	3.74	13.37	83.88	999.00		999.00	-1.06	0.00
	8 23 20		6.70	2.18		999.00		6.53	3.93		112.10	3.74	11.58		999.00		999.00	0.25	0.00
	8 23 21		11.93	1.83		999.00		10.55	1.96		163.10	2.33	19.89		999.00		999.00	1.92	0.00
	8 23 22		12.37	1.33		999.00		12.04	0.93		166.70	2.63	17.54		999.00		999.00	2.76	0.00
	8 23 23		11.79	3.78	80.01	999.00		10.92	4.85		169.50	3.62	10.71		999.00		999.00	3.57	0.00
	8 23 24		14.97	2.56		999.00		11.69	2.55		199.60	3.44	12.15		999.00		999.00	1.78	0.00
	8 24 1		14.48	2.66				12.10	3.78		213.50	3.44	10.79		999.00		999.00	0.87	0.00
	8 24 2		19.64	1.99		999.00		14.27	3.34		217.80	4.90	11.00		999.00		999.00	1.73	0.00
	8 24 3		17.31	4.56		999.00		13.29	4.35		212.40	4.29	11.21		999.00		999.00	2.21	0.00
20	8 24 4	242.50	14.85	7.31	75.52	999.00	227.60	12.29	7.22	74.64	193.90	5.36	11.86	72.05	999.00	3.16	999.00	2.52	0.00

20 8 24 5 241.20			999.00 230.		3.94		206.30	5.28	11.86		999.00		999.00	3.20	0.00
20 8 24 6 240.40	16.14 1.	85 73.50	999.00 224.		1.88		205.70	4.47	12.19	70.40	999.00	2.98	999.00	1.50	0.00
20 8 24 7 226.30	16.43 1.	50 72.35	999.00 213.	30 14.00	2.63	71.25	194.90	5.14	10.44	69.63	999.00	2.59	999.00	1.58	0.00
20 8 24 8 230.40	16.95 2.	37 71.24	999.00 216.	13.64	2.15	70.38	195.20	4.82	12.20	69.20	999.00	1.86	999.00	0.95	0.00
20 8 24 9 216.10	13.72 4.	43 71.66	999.00 208.	50 11.39	6.15	70.48	209.70	6.68	14.14	71.29	999.00	-1.76	999.00	-1.15	0.00
20 8 24 10 217.70	10.81 7.	17 72.95	999.00 214.	9.90	8.79	73.21	225.70	7.57	12.57	75.60	999.00	-2.84	999.00	-1.65	0.00
20 8 24 11 221.90		64 76.45	999.00 222.		7.49		235.50	8.16	13.11	79.48	999.00	-3.02	999.00	-1.94	0.00
20 8 24 12 215.00		77 78.67	999.00 213.		8.62	78.95	223.60	9.91	15.34	81.90	999.00	-3.55	999.00	-2.31	0.00
20 8 24 13 220.80	14.34 11.		999.00 220.		12.21		229.60	9.71	18.66	81.90	999.00	-3.48	999.00	-2.21	0.00
20 8 24 14 223.60		42 82.48	999.00 222.		9.54		230.00	11.58	12.99	85.85	999.00	-3.59	999.00	-2.24	0.00
			999.00 229.		11.25	83.87	236.00		14.72	86.98		-3.25	999.00	-2.06	0.00
								11.74			999.00				
20 8 24 16 229.40		22 84.57			10.44		233.10	9.57	11.45	87.55	999.00	-3.01	999.00	-1.82	0.00
20 8 24 17 208.10		25 85.12	999.00 204.		11.49		216.40	7.69	17.18	88.25	999.00	-3.39	999.00	-1.65	0.00
20 8 24 18 237.80		26 86.22	999.00 237.		8.04		241.20	9.18	12.08	88.80	999.00	-2.22	999.00	-1.13	0.00
20 8 24 19 243.30		58 86.92	999.00 241.		5.29		244.60	7.60	11.05	88.85	999.00	-1.55	999.00	-0.69	0.00
20 8 24 20 236.20		36 85.83	999.00 232.		2.60		231.30	5.65	5.47	86.43	999.00	0.05	999.00	0.67	0.00
20 8 24 21 206.80	14.14 9.	71 84.24	999.00 203.	30 12.09	10.79	84.62	215.10	4.78	13.84	83.65	999.00	0.55	999.00	0.63	0.00
20 8 24 22 209.10	16.02 2.	52 79.78	999.00 206.	20 12.96	5.10	79.89	217.50	5.87	10.58	79.93	999.00	-0.17	999.00	-0.09	0.00
20 8 24 23 223.10	17.24 1.	90 77.91	999.00 209.	20 14.44	2.62	77.57	199.70	5.71	11.67	77.13	999.00	1.37	999.00	0.86	0.00
20 8 24 24 245.50	16.14 1.	80 79.19	999.00 225.	15.33	2.40	77.44	207.80	5.31	11.95	75.28	999.00	7.06	999.00	3.96	0.00
20 8 25 1 234.80	19.08 2.	98 79.11	999.00 221.	14.88	2.86	77.06	218.10	5.48	10.54	74.65	999.00	3.76	999.00	2.03	0.00
20 8 25 2 228.80	18.64 2.	19 77.46	999.00 220.	10 14.90	2.39	76.58	207.30	5.98	12.96	75.00	999.00	1.18	999.00	0.93	0.00
20 8 25 3 237.00	20.47 2.	29 76.09	999.00 230.	30 16.25	3.08	76.06	221.10	6.44	10.99	75.00	999.00	1.18	999.00	1.15	0.00
20 8 25 4 250.10		48 999.00	999.00 243.		4.54	999.00		8.67	9.99	74.90	999.00	0.32	999.00	0.03	0.00
20 8 25 5 251.80		27 999.00	999.00 244.		5.63		238.70	7.51	8.22	74.50	999.00	0.31	999.00	0.00	0.00
20 8 25 6 242.00		44 999.00	999.00 236.		6.83		229.70	7.53	10.28	74.05	999.00	-0.16	999.00	-0.13	0.00
20 8 25 7 247.80		79 73.25	999.00 243.		5.97		244.30	7.14	9.88	73.43	999.00	-0.29	999.00	-0.29	0.00
20 8 25 8 254.40		56 73.25	999.00 242.		5.71		241.30	7.32	9.58	73.43	999.00	0.29	999.00	-0.24	0.00
20 8 25 9 255.90		32 73.20	999.00 249.		7.98		244.00	6.93	10.07	74.40	999.00	-1.59	999.00	-1.03	0.00
20 8 25 10 282.80	10.78 11.				10.88		283.60	7.66	15.61	77.18	999.00	-2.31	999.00	-1.85	0.00
	9.29 12.				12.46		301.50	7.38	18.43	77.18	999.00	-2.66	999.00	-2.21	0.00
			999.00 298.		10.25		332.60	8.25	14.71	80.88	999.00	-3.20	999.00		0.00
														-1.60	
20 8 25 13 333.40		91 77.97			8.64		338.30	8.25	13.50	81.35	999.00	-3.65	999.00	-1.31	0.00
20 8 25 14 355.90	9.52 10.		999.00 355.		9.38	77.79	9.37	8.75	12.27	81.00	999.00	-3.43	999.00	-0.39	0.00
20 8 25 15 343.40		19 999.00	999.00 343.		9.55		356.80	9.15	13.96	81.87	999.00	-3.65	999.00	-0.82	0.00
20 8 25 16 359.80		96 78.16	999.00 357.		8.29	78.37	8.64	10.43	11.06	81.20	999.00	-2.86	999.00	-0.81	0.00
20 8 25 17 346.70		24 79.33	999.00 345.		5.42		357.10	12.10	9.56	82.05	999.00	-2.49	999.00	-1.01	0.00
20 8 25 18 344.90		39 80.28	999.00 343.		4.68		352.80	7.63	8.93	82.38	999.00	-2.02	999.00	-0.82	0.00
20 8 25 19 306.40	9.06 6.	55 80.03	999.00 303.		7.06		309.90	6.03	13.08	82.10	999.00	-1.71	999.00	-1.34	0.00
20 8 25 20 296.50	11.27 1.	84 79.94	999.00 293.		2.57		290.40	4.36	10.96	80.93	999.00	-0.28	999.00	-0.20	0.00
20 8 25 21 294.50	9.52 1.	56 79.58	999.00 286.	00 8.21	2.66	80.33	251.00	2.68	19.51	78.85	999.00	1.06	999.00	1.67	0.00
20 8 25 22 80.40	4.03 54.	83 78.16	999.00 101.	50 4.58	34.69	78.83	128.90	4.10	16.12	77.43	999.00	0.65	999.00	1.23	0.00
20 8 25 23 168.60	13.29 2.	03 76.74	999.00 168.	90 11.72	2.37	77.10	189.90	3.88	19.16	76.42	999.00	-0.05	999.00	-0.09	0.00
20 8 25 24 192.40	10.67 3.	50 75.74	999.00 190.	8.66	3.80	75.93	197.20	3.38	14.29	75.65	999.00	0.07	999.00	0.10	0.00
20 8 26 1 209.60			999.00 196.		8.20		200.20	4.36	14.54		999.00		999.00	0.81	0.00
20 8 26 2 257.00			999.00 223.		5.14	75.95	188.70	3.17	15.57	74.15	999.00		999.00	2.51	0.00
20 8 26 3 189.70			999.00 192.		2.13		191.60	4.18	8.17		999.00		999.00	3.82	0.00
20 8 26 4 202.60			999.00 209.		5.08		208.10	3.65	7.35		999.00		999.00	3.98	0.00
20 8 26 5 208.40			999.00 215.		1.85		200.90	3.28	7.63		999.00		999.00	3.71	0.00
20 8 26 6 213.10			999.00 214.		1.80		209.10	4.16	11.88		999.00		999.00	4.39	0.00
20 8 26 7 271.20	4.72 22.		999.00 287.		43.79	74.49	3.69	4.09	9.80		999.00		999.00	1.05	0.00
20 8 26 8 126.10	4.72 31.		999.00 115.		25.70		135.70	3.15	30.58		999.00		999.00	0.41	0.00
20 0 20 0 120.10	7.12 31.	,0 ,0.21	JJJ.00 IIJ.	J. J.14	23.70	13.31	100.70	٠.٢٦	30.30	12.03	JJJ.00	0.10	222.00	0.41	0.00

	8 26 9		7.09	3.97		999.00		6.49	4.21		198.90	3.73	14.87		999.00		999.00	-0.70	0.00
20	8 26 10		7.16	6.49	71.92	999.00	186.30	7.13	4.16		196.80	4.97	17.85	73.60	999.00	-2.03	999.00	-0.70	0.00
20		224.40	4.66	21.81	74.85	999.00	222.30	4.04	28.60		227.20	3.62	34.73	77.85	999.00	-3.41	999.00	-0.96	0.00
20		60.09	17.00	5.15	75.13	999.00	57.64	16.12	5.48	75.38	68.40	11.31	12.17	77.78	999.00	-1.74	999.00	-1.40	0.00
20	8 26 13	88.10	18.35	5.95	72.90	999.00	83.50	17.11	7.61	73.21	87.40	10.64	16.88	75.65	999.00	-3.24	999.00	-2.49	0.00
20	8 26 14	121.80	11.46	12.14	73.79	999.00	114.70	11.24	12.04	74.07	126.10	7.45	19.49	77.20	999.00	-3.45	999.00	-2.30	0.00
20	8 26 15	179.50	4.00	23.49	78.90	999.00	169.60	4.04	20.18	78.91	160.30	3.31	52.98	82.43	999.00	-3.72	999.00	-0.55	0.00
20	8 26 16	217.70	6.44	12.04	81.56	999.00	215.90	5.92	13.83	81.70	228.90	4.49	20.47	85.23	999.00	-3.63	999.00	-1.48	0.00
20	8 26 17	219.40	5.93	13.95	83.76	999.00	223.30	5.10	19.44	84.09	239.30	3.89	28.01	87.15	999.00	-3.20	999.00	-1.54	0.00
20	8 26 18	103.30	3.09	43.55	83.47	999.00	70.90	4.11	21.51	83.47	76.20	5.13	18.95	84.85	999.00	-0.97	999.00	-0.05	0.00
20	8 26 19	184.20	2.66	21.99	84.04	999.00	136.00	2.92	18.88	84.37	111.90	3.57	12.20	83.63	999.00	0.89	999.00	2.50	0.00
20	8 26 20	233.10	17.58	3.35	84.91	999.00	231.70	15.43	4.07	85.47	235.80	7.47	9.39	84.25	999.00	0.23	999.00	0.62	0.00
20	8 26 21	225.80	16.96	2.01	84.46	999.00	223.50	14.13	2.88	84.94	228.00	5.27	9.00	83.82	999.00	0.78	999.00	1.14	0.00
20	8 26 22	221.50	19.67	1.91	82.17	999.00	218.20	16.83	2.64	82.71		6.50	11.32	81.27	999.00	0.95	999.00	1.25	0.00
20	8 26 23	221.00	21.29	2.11	80.28	999.00	217.90	18.00	3.86		220.20	8.20	12.14	79.73	999.00	0.34	999.00	0.44	0.00
20	8 26 24		19.52	2.33	78.65	999.00	217.60	16.37	3.56		221.60	7.75	10.81	78.15	999.00	0.45	999.00	0.46	0.00
20	8 27 1	222.90	21.75	1.71	77.07	999.00	219.50	18.05	2.69		224.60	8.35	9.49	76.32	999.00	0.96	999.00	1.00	0.00
20	8 27 2		20.90	2.88	75.88	999.00	221.60	17.44	4.15	75.90	225.10	8.59	11.11	75.32	999.00	0.30	999.00	0.19	0.00
20	8 27 3		20.64	4.58	75.78	999.00	225.50	17.57	5.37		227.90	9.59	10.39	75.75	999.00	-0.22	999.00	-0.21	0.00
20	8 27 4		21.11	4.46	75.61	999.00	233.10	18.34	5.32		240.10	11.62	10.21	76.10	999.00	-0.59	999.00	-0.42	0.00
20	8 27 5		23.59	5.00	75.30	999.00	231.00	20.99	5.40	75.47	235.90	13.47	9.83	75.88	999.00	-0.49	999.00	-0.40	0.00
20		232.50	22.75	4.42	74.95	999.00	229.40	20.12	5.66		235.10	12.44	10.72	75.60	999.00	-0.80	999.00	-0.55	0.00
20	8 27 7		20.59	4.04	74.13	999.00	230.20	18.12	4.93		238.00	10.64	10.72	74.95	999.00	-0.89	999.00	-0.67	0.00
20	8 27 8	242.60	16.33	6.58	73.44	999.00	239.80	13.65	7.46		246.40	7.51	12.68	74.48	999.00	-1.21	999.00	-0.83	0.00
20	8 27 9		16.66	6.24	73.44	999.00	237.20	15.37	7.40		240.40	11.23	11.70	75.85	999.00	-2.19	999.00	-1.31	0.00
20	8 27 10		17.85	5.85	75.49	999.00	237.20	16.92	6.32		240.20	11.23	11.77	77.88	999.00	-2.19	999.00	-1.61	0.00
						999.00	230.20		6.47		243.00					-2.52 -2.69	999.00		0.00
20	8 27 11		19.48	5.77	77.48			18.39				13.78	9.98	80.15	999.00			-1.87	
20	8 27 12		21.05	5.90	80.42	999.00	224.60	20.61	6.96		232.60	14.87	11.25	83.27	999.00	-3.10	999.00	-2.28	0.00
20	8 27 13		19.35	9.27	83.22	999.00	242.10	18.64	9.12		244.10	13.80	13.77	86.07	999.00	-2.82	999.00	-1.98	0.00
20	8 27 14		19.06	9.08	85.55	999.00	244.10	18.20	10.39		244.50	13.16	14.19	88.55	999.00	-3.12	999.00	-2.23	0.00
20	8 27 15		19.73	10.90	87.62	999.00	255.50	18.94	11.14	88.00	261.20	13.65	13.41	90.63	999.00	-3.10	999.00	-2.19	0.00
20	8 27 16		19.95	10.44	88.82	999.00	246.90	19.38	11.36	89.20	251.00	13.42	15.37	91.65	999.00	-2.75	999.00	-1.74	0.00
20			23.19	7.87	88.23	999.00	262.20	21.30	8.51	88.53	269.50	15.41	11.41	90.60	999.00	-2.35	999.00	-1.85	0.00
20	8 27 18	251.50	23.39	8.22	999.00	999.00	250.40	21.75	8.14	999.00	257.00	14.67	14.32	91.67	999.00	-2.01	999.00	-1.28	0.00
20	8 27 19		22.32	4.84	85.51	999.00	232.00	20.89	5.59	85.79	236.50	14.25	9.30	87.43	999.00	-1.53	999.00	-0.89	0.00
20	8 27 20		20.73	5.52	84.20	999.00	255.20	18.09	6.48	84.39		10.85	10.02	85.10	999.00	-0.70	999.00	-0.35	0.00
20	8 27 21		20.75	4.93	83.12	999.00	248.40	17.91	5.47		247.70	9.84	10.06	83.43	999.00	-0.11	999.00	0.17	0.00
20	8 27 22		18.93	4.29	82.10	999.00	248.90	15.79	6.15		243.40	7.99	8.87	82.10	999.00	0.07	999.00	0.31	0.00
20	8 27 23		14.70	3.64	80.17	999.00	259.00	11.38	5.94		266.10	5.26	12.42	79.97	999.00	0.10	999.00	-0.02	0.00
20	8 27 24		16.25	3.70	78.78	999.00	236.10	13.45	3.19		216.90	6.15	11.73	78.38	999.00	0.95	999.00	0.87	0.00
20	8 28 1		16.27	3.26	77.82	999.00	237.00	12.48	4.56	77.85		4.59	9.07	77.00	999.00	0.69	999.00	0.52	0.00
20	8 28 2	222.80	14.34	4.21	76.15	999.00	217.50	12.15	4.59	76.37	200.00	4.47	11.46	75.75	999.00	0.43	999.00	0.73	0.00
	8 28 3		17.36	3.01		999.00		14.86	3.84		216.70	6.86	12.56		999.00		999.00	0.04	0.00
	8 28 4		16.16		999.00			13.85		999.00					999.00		999.00	-0.39	0.00
	8 28 5		13.56	4.80		999.00		11.18	5.22	74.93		5.82	10.88		999.00		999.00	-0.34	0.00
	8 28 6		15.08	3.85		999.00		12.63	4.97		214.10	5.56	10.79		999.00		999.00	-0.20	0.00
	8 28 7		17.97	3.64		999.00		15.49		999.00		9.13	9.10		999.00		999.00	-0.57	0.00
	8 28 8		14.84	6.39		999.00		12.19	8.42		254.30	6.53	11.41		999.00		999.00	-0.64	0.00
	8 28 9		12.53	5.51		999.00		11.19	5.90		241.80	7.65	10.90		999.00		999.00	-1.10	0.00
	8 28 10		16.68	6.85		999.00		15.93	7.62	76.16	247.00	10.90	12.30	77.93	999.00		999.00	-1.57	0.00
	8 28 11		11.79	11.41		999.00		11.48	10.44	77.43	258.80	8.55	16.82	79.40	999.00		999.00	-1.97	0.00
20	8 28 12	239.80	9.33	13.87	79.58	999.00	237.80	8.72	14.68	79.85	244.70	6.73	22.12	82.65	999.00	-3.52	999.00	-2.17	0.00

20	8 28 13	62.18	5.97	28.70	80.87	999.00	62.61	7.08	17.27	81.03	81.20	5.34	19.66	83.57	999.00	-1.71	999.00	-1.25	0.00
20	8 28 14	74.90	13.54	4.21	78.91	999.00	71.40	13.58	6.86	78.93	77.60	10.27	14.28	81.07	999.00	-3.04	999.00	-1.85	0.00
20	8 28 15	75.90	17.21	5.57	77.44	999.00	74.60	16.35	6.93	77.60	78.00	11.35	12.74	80.15	999.00	-2.30	999.00	-1.86	0.31
20	8 28 16	56.73	17.71	14.63	76.69	999.00	55.12	16.80	15.65	76.97	67.53	11.68	24.59	78.97	999.00	-1.94	999.00	-1.43	0.04
20	8 28 17	92.30	10.30	17.46	70.87	999.00	86.40	10.76	15.96	71.54	91.30	6.90	22.67	72.07	999.00	-1.27	999.00	-1.72	0.04
20		147.00	17.87	3.67	71.25	999.00	144.80	16.04	5.07		157.90	6.01	23.82	72.38	999.00	-0.87	999.00	-1.79	0.11
20	8 28 19		17.40	4.49	70.50	999.00	177.10	15.66	4.44		190.60	7.36	17.32	71.15	999.00	-1.01	999.00	-1.59	0.20
20	8 28 20		15.60	6.93	69.58	999.00	154.20	13.92	8.52		167.20	7.02	22.96	70.55	999.00	-0.89	999.00	-1.40	0.00
20	8 28 21		13.94	4.11	999.00	999.00	160.90	12.02	6.57	999.00		5.09	28.68	70.67	999.00	-0.83	999.00	-1.16	0.00
20	8 28 22		15.75	2.89	69.74	999.00		13.60	4.68		191.80	6.16	14.54	70.38	999.00		999.00	-0.97	0.00
20	8 28 23		19.20	3.78	69.43	999.00	177.20	16.44	4.78		190.70	6.43	18.75	69.77	999.00	-0.20	999.00	-1.10	0.00
20	8 28 24		16.52	2.88	69.09	999.00	180.10	13.79	4.15		195.80	6.00	14.72	69.18	999.00	0.00	999.00	-0.47	0.00
20		182.90	20.28	3.18	69.36	999.00		17.25	4.59		189.40	6.73	17.43	69.32	999.00	-0.13	999.00	-0.45	0.00
20		198.90	18.53	5.30	69.78	999.00	195.90	15.64	6.41		208.10	7.39	15.29	70.07	999.00	-0.30	999.00	-0.63	0.00
20	8 29 3	205.00	21.48	4.10	70.40	999.00	199.60	18.09	5.41	70.43	201.40	7.43	15.00	70.55	999.00	0.01	999.00	-0.57	0.26
20	8 29 4	256.20	13.88	13.39	70.67	999.00	249.50	11.97	14.00		239.20	7.06	18.81	71.23	999.00	-0.94	999.00	-1.68	0.11
20	8 29 5	208.50	19.11	6.29	67.41	999.00	199.00	17.02	7.13	68.62	199.40	8.06	13.82	68.10	999.00	-0.54	999.00	-1.15	0.00
20	8 29 6	207.20	19.28	3.67	66.48	999.00	203.50	15.71	5.14	67.37	211.80	7.24	13.99	66.59	999.00	0.03	999.00	-0.48	0.00
20	8 29 7	226.20	17.82	6.46	66.18	999.00	223.30	15.04	7.30	66.96	223.10	8.50	12.97	66.15	999.00	-0.24	999.00	-0.68	0.00
20	8 29 8	249.80	18.71	5.01	66.86	999.00	247.00	16.43	6.15	67.37	251.90	9.73	11.70	67.45	999.00	-0.60	999.00	-1.14	0.00
20	8 29 9	261.50	15.22	7.78	67.53	999.00	259.60	13.67	8.53	67.91	263.20	9.12	12.08	68.81	999.00	-1.65	999.00	-2.18	0.00
20	8 29 10	278.50	21.40	7.00	69.06	999.00	275.60	20.20	7.63	69.75	281.70	14.49	12.80	71.05	999.00	-2.41	999.00	-0.84	0.00
20	8 29 11		23.41	9.13	69.94	999.00	289.00	21.77	9.51	70.24	291.60	13.58	14.09	71.50	999.00	-1.43	999.00	-1.59	0.00
20	8 29 12		25.03	6.47	69.04	999.00	289.20	24.40	6.93		293.50	15.67	13.49	71.00	999.00	-2.12	999.00	-2.36	0.00
20	8 29 13		22.37	6.78	69.08	999.00	280.20	21.57	6.93	69.40	284.50	15.48	11.32	71.50	999.00	-2.47	999.00	-2.36	0.00
20	8 29 14		19.38	6.54	70.40	999.00	297.30	19.37	7.21	70.71	302.60	13.59	13.05	73.13		-2.71	999.00	-2.64	0.00
20	8 29 15		20.18	7.82	70.40	999.00	294.40	19.70	8.35	70.71	301.20	14.23	14.19	73.13	999.00	-2.79	999.00	-2.56	0.00
																	999.00		
20	8 29 16	299.70	18.17	7.16	72.92	999.00	296.00	17.89	7.43	73.21	299.60	12.47	13.17	75.30	999.00	-2.52		-2.45	0.00
20	8 29 17	301.00	15.54	7.98	74.27	999.00	299.00	15.09	8.55	74.57	304.20	11.14	14.34	77.00	999.00	-2.42	999.00	-2.18	0.00
20	8 29 18	296.20	16.25	7.37	75.62	999.00	293.30	15.24	8.11		296.90	9.56	13.97	77.85	999.00	-1.96	999.00	-1.79	0.00
20	8 29 19	291.10	21.46	6.19	76.12	999.00	288.10	20.03	6.19		292.80	11.61	12.79	77.95	999.00	-1.50	999.00	-0.98	0.00
20	8 29 20	284.70	20.04	4.35	74.98	999.00	281.70	17.68	4.60	75.24		9.76	9.47	75.40	999.00	-0.02	999.00	0.37	0.00
20	8 29 21		20.88	7.31	72.98	999.00	289.20	18.95	7.73	73.37	289.40	10.26	12.54	72.90	999.00	-0.11	999.00	0.29	0.00
20	8 29 22	300.80	25.71	5.85	71.95	999.00	297.80	23.64	6.36	72.27	300.60	13.14	13.09	72.43	999.00	-0.49	999.00	-0.15	0.00
20	8 29 23	299.40	19.88	8.07	71.95	999.00	296.20	18.60	8.78	72.27	295.60	10.30	13.28	72.43	999.00	-0.43	999.00	0.21	0.00
20	8 29 24	290.50	19.43	5.09	68.08	999.00	284.10	17.51	4.83	68.60	279.00	8.33	9.32	67.65	999.00	0.79	999.00	1.28	0.00
20	8 30 1	320.20	18.13	6.38	67.17	999.00	317.10	17.09	6.82	67.74	318.00	10.47	12.57	66.64	999.00	0.10	999.00	-0.07	0.00
20	8 30 2	324.90	17.70	6.37	67.53	999.00	321.80	16.97	7.02	67.87	326.00	10.97	13.10	68.11	999.00	-0.65	999.00	-0.50	0.00
20	8 30 3	301.20	12.97	10.84	66.50	999.00	296.10	12.57	12.40	66.89	281.10	6.77	23.36	66.90	999.00	0.00	999.00	1.14	0.00
20	8 30 4	323.10	17.98	7.46	64.14	999.00	320.00	17.16	8.20	65.00	323.20	10.56	13.30	63.53	999.00	-0.56	999.00	-0.24	0.00
20	8 30 5	321.70	16.66	6.37	64.32	999.00	319.30	15.95	7.79	64.65	321.50	9.58	13.32	64.97	999.00	-0.58	999.00	-0.26	0.00
20	8 30 6	313.30	14.88	6.49	63.23	999.00	308.00	13.54	8.25	63.64	282.30	6.32	24.64	63.56	999.00	0.26	999.00	1.72	0.00
20	8 30 7		15.83	4.77		999.00	320.90	15.30	4.96		324.80	9.45	9.95		999.00		999.00	-0.42	0.00
	8 30 8		14.98	6.32		999.00		14.63	6.34		338.00	9.70	9.49		999.00		999.00	-0.98	0.00
	8 30 9		12.83	8.83		999.00		12.54	10.33		330.70	9.49	13.63		999.00		999.00	-1.61	0.00
	8 30 10		12.12	8.99		999.00		12.23	8.68		321.50	9.22	13.65		999.00		999.00	-2.12	0.00
	8 30 11		10.97	9.77		999.00		10.88	10.79		325.00	8.66	17.05		999.00		999.00	-1.45	0.00
	8 30 12		9.84	13.88		999.00		9.89	14.53		323.60	7.46	23.57		999.00		999.00	-1.53	0.00
	8 30 13		7.04	17.95		999.00		7.11	19.88		317.40	5.89	36.79		999.00		999.00	-1.84	0.00
	8 30 14		9.45	10.33		999.00		9.65	10.47		343.60	7.65	18.60		999.00		999.00	-1.36	0.00
	8 30 15		8.54	16.87		999.00		7.97	17.81		350.60	6.68	20.28		999.00		999.00	-0.95	0.00
20	8 30 16	19.75	6.69	20.56	66.13	999.00	15.52	5.81	24.24	66.45	29.03	5.06	24.16	69.65	999.00	-3.56	999.00	-0.60	0.00

20	8 30 17	47.16	6.04	14.01		999.00	39.09	5.83	13.21	67.36	48.71	6.34	24.66	70.13	999.00		999.00	-0.56	0.00
20	8 30 18	63.23	6.57	13.49	67.12	999.00	55.62	6.34	12.04	67.65	65.88	5.55	15.17	69.90	999.00	-2.50	999.00	-0.95	0.00
20	8 30 19	82.80	5.06	11.79	67.38	999.00	79.40	4.78	13.76	67.83	82.00	3.85	25.21	69.85	999.00	-2.21	999.00	-1.11	0.00
20	8 30 20	81.70	4.91	5.17	67.21	999.00	76.80	4.76	5.97	67.49	87.60	2.25	12.70	68.33	999.00	-0.76	999.00	-0.41	0.00
20	8 30 21	84.60	6.37	8.02	67.35	999.00	82.00	6.23	7.48	67.71	102.40	2.92	12.68	67.69	999.00	-0.19	999.00	0.11	0.00
20	8 30 22		7.31	5.97	67.35	999.00	116.40	6.78	7.52		154.40	2.69	8.82	67.69	999.00	0.83	999.00	1.48	0.00
20	8 30 23		6.77	4.37	66.82	999.00	107.90	6.49	4.81		147.60	2.85	13.51	65.93	999.00	0.76	999.00	1.67	0.00
20	8 30 24		7.75	4.39	66.68	999.00	109.00	7.24	3.93		145.10	2.60	8.70	65.39	999.00	1.58	999.00	2.83	0.00
	8 31 1		10.48	3.19	66.67	999.00	123.40	10.73	2.51		126.20	3.89	8.15	65.15	999.00	1.21	999.00	1.74	0.00
20																			
20	8 31 2		11.00	3.43	67.04	999.00	110.70	10.23	4.11		147.90	2.88	18.30	66.08	999.00	0.99	999.00	1.88	0.00
20	8 31 3		12.08	2.57	66.35	999.00	120.20	10.95	5.06		172.90	3.03	15.44	64.87	999.00	1.50	999.00	2.08	0.00
20	8 31 4		13.52	2.92	64.68	999.00	124.70	12.86	2.19		173.20	1.78	18.51	63.03	999.00	1.77	999.00	2.76	0.00
20	8 31 5		16.42	2.05	64.16	999.00		14.43	3.85		149.30	4.87	23.04	63.08	999.00	0.52	999.00	0.62	0.00
20	8 31 6	131.10	9.90	2.55	63.35	999.00	125.10	8.81	2.44	64.08	196.10	1.13	49.01	62.34	999.00	0.83	999.00	1.19	0.00
20	8 31 7	137.50	11.43	1.36	62.49	999.00	134.80	10.50	2.19	63.25	153.40	1.35	30.07	61.38	999.00	1.35	999.00	1.79	0.00
20	8 31 8	136.10	12.87	1.72	62.87	999.00	130.60	10.74	3.19	63.04	142.10	3.47	12.34	61.84	999.00	0.65	999.00	0.78	0.00
20	8 31 9	131.50	10.66	6.12	64.40	999.00	128.20	8.92	8.01	63.92	142.60	4.46	18.32	64.81	999.00	-1.58	999.00	-0.76	0.00
20	8 31 10	131.20	8.92	7.50	66.40	999.00	124.40	8.58	8.34	66.45	132.60	5.31	18.15	68.56	999.00	-2.53	999.00	-1.19	0.00
20	8 31 11	134.40	5.78	15.44	68.66	999.00	136.80	5.93	14.97	68.75	153.40	4.33	26.83	71.55	999.00	-2.88	999.00	-0.75	0.00
20	8 31 12	85.50	6.58	17.95	71.00	999.00	83.70	6.54	21.88	71.37	83.10	5.30	30.61	74.00	999.00	-2.88	999.00	-1.30	0.00
	8 31 13	75.00	7.44	19.86	72.07	999.00	65.54	7.41	13.88	72.46	69.83	6.73	18.63	74.68	999.00	-2.61	999.00	-1.34	0.00
	8 31 14	71.30	8.36	12.24	72.60	999.00	63.96	8.47	11.64	73.01	78.80	6.44	15.84	74.95	999.00	-2.26	999.00	-1.44	0.00
	8 31 15	68.46	12.06	5.99	73.41	999.00	63.87	12.06	6.05	73.87	72.10	9.26	12.80	76.43	999.00	-2.89	999.00	-1.73	0.00
	8 31 16	66.49	9.01	10.89	73.81	999.00	64.48	9.13	11.54	74.27	72.10	7.40	18.06	76.65	999.00	-2.68	999.00	-1.59	0.00
	8 31 17	64.61	11.63	7.80	999.00	999.00	62.37	11.10	10.15	999.00	70.20	9.17	13.27	76.67	999.00	-2.57	999.00	-1.67	0.00
	8 31 18	75.20	16.27	3.33	74.07	999.00	71.20	16.13	4.14	74.44	79.60	9.68	15.37	76.65	999.00	-2.54	999.00	-1.69	0.00
	8 31 19	96.20	13.79	5.92	73.92			12.51	7.62		97.80		19.34		999.00	-2.05	999.00		0.00
						999.00	91.20			74.30		5.80		76.10				-1.05	
20	8 31 20	100.60	15.47	4.44	73.58	999.00	97.20	14.48	5.32	73.92	104.40	6.62	12.98	74.68	999.00	-0.62	999.00	-0.17	0.00
20	8 31 21		16.24	2.69	72.87	999.00	105.20	15.70	4.07	73.27	112.40	6.74	14.83	73.30	999.00	-0.37	999.00	-0.02	0.00
20	8 31 22		13.63	3.31	999.00	999.00	102.30	13.21	4.02	999.00		5.73	13.50	72.87		-0.27	999.00	0.17	0.00
20	8 31 23		14.18	1.64	72.26	999.00	111.10	12.74	3.13		123.10	4.32	13.97	72.32	999.00	0.06	999.00	0.45	0.00
20	8 31 24		16.10	2.67	71.87	999.00	143.90	13.47	3.13		153.60	3.14	20.14	71.18	999.00	1.35	999.00	1.29	0.00
20		182.20	18.29	2.06	71.21	999.00		14.66	1.68		175.90	3.13	15.93	69.61	999.00	1.54	999.00	1.94	0.00
20		182.80	17.47	1.22	69.77		175.10	13.69	2.49		173.50	3.59	17.41	68.73	999.00	0.99	999.00	0.91	0.00
20		188.90	18.36	1.92	69.77	999.00	182.10	14.37	2.31		186.70	3.55	14.58	68.73	999.00	0.85	999.00	0.88	0.00
20	9 1 4	189.80	18.15	2.26	68.53	999.00	180.80	14.45	2.90	68.76	181.70	3.82	15.53	67.63	999.00	1.08	999.00	1.09	0.00
20	9 1 5	192.80	18.46	2.46	68.41	999.00	185.50	15.19	2.15	68.67	192.90	5.42	12.69	67.57	999.00	0.79	999.00	0.81	0.00
20	9 1 6	202.30	15.68	2.63	68.18	999.00	190.40	13.31	2.24	68.15	196.80	4.76	13.02	67.48	999.00	0.82	999.00	0.66	0.00
20	9 1 7	201.30	16.02	3.23	67.75	999.00	187.10	13.70	2.92	67.69	191.70	5.01	13.18	67.16	999.00	0.79	999.00	0.68	0.00
20	9 1 8	214.40	14.85	2.71	68.21	999.00	194.90	12.86	2.64	68.07	183.30	5.21	11.65	67.25	999.00	1.24	999.00	0.96	0.00
20	9 1 9	211.40	13.17	4.07	68.48	999.00	200.80	10.52	5.42	67.88	205.70	5.79	13.69	69.28	999.00	-1.47	999.00	-1.20	0.00
20	9 1 10	217.30	8.19	6.90	69.72	999.00	216.20	7.65	7.93	69.86	232.60	6.84	13.00	72.30	999.00	-2.91	999.00	-1.55	0.00
	9 1 11		6.05	10.69		999.00		6.32	13.33		237.70	5.62	16.80		999.00		999.00	-1.44	0.00
	9 1 12		6.21	14.32		999.00		5.95	14.04		195.90	4.52	32.39		999.00		999.00	-0.78	0.00
	9 1 13		4.91	47.33		999.00	96.80	5.27	43.49	77.31	74.70	5.65	33.69		999.00		999.00	-0.67	0.00
	9 1 14		8.65	14.06		999.00		8.38	14.24		219.00	5.76	22.72		999.00		999.00	-1.23	0.00
	9 1 15		11.10	8.03		999.00	204.10	10.65	9.57		218.00	8.17	15.28		999.00		999.00	-1.96	0.00
	9 1 16		13.31	7.88		999.00		12.21	9.25		214.30	8.22	17.84		999.00		999.00	-1.45	0.00
	9 1 17		14.59	6.65		999.00		13.73	7.25		195.50	7.67	19.84		999.00		999.00	-0.85	0.00
	9 1 18		16.29	6.31	999.00	999.00		15.63	7.81	999.00		9.21	17.05		999.00		999.00	-0.91	0.00
	9 1 19		12.91	6.71		999.00		11.75	7.00		188.10	5.98	17.54		999.00		999.00	-0.82	0.00
20	9 1 20	186.20	13.70	3.97	77.69	999.00	182.80	11.82	5.02	77.94	192.00	5.46	15.08	78.68	999.00	-0.80	999.00	-0.56	0.00

00 0 1 01 104 00	16.01 0.40	F. F. O.O. O.O.	100 10 14		T.C. 0.C. 1.0T. 0.C	5 00	14 50		0 00 000 00	0 10 0	0.0
20 9 1 21 184.30	16.31 2.40	76.72 999.00		.03 3.09	76.96 187.80		14.73	77.07 999.00	-0.08 999.00		.00
20 9 1 22 180.20	15.31 2.10	76.02 999.00		.46 3.02	76.19 180.70		18.59	75.95 999.00	0.03 999.00		.00
20 9 1 23 183.60	14.64 2.74	75.59 999.00		.88 3.11	75.61 174.80		18.09	75.38 999.00	0.28 999.00		.00
20 9 1 24 193.50	13.72 3.26	74.97 999.00		.14 3.93	75.07 191.80		16.97	74.82 999.00	-0.02 999.00		.00
20 9 2 1 202.90	15.07 3.34	74.45 999.00		.76 4.46	74.51 216.00		11.80	74.15 999.00	0.52 999.00		.00
20 9 2 2 223.30	12.99 5.11	74.06 999.00		.25 5.91	74.09 201.00		17.91	73.75 999.00	0.45 999.00		.00
20 9 2 3 205.00	12.14 2.09	73.91 999.00		.94 3.31	74.03 177.50		16.81	73.18 999.00	1.00 999.00		.02
20 9 2 4 202.70	18.10 6.67	73.20 999.00		.58 6.72	73.42 192.70		14.67	72.75 999.00	-0.08 999.00		.12
20 9 2 5 211.40	20.76 4.16	69.93 999.00		.00 5.30	71.00 199.80		13.71	70.15 999.00	0.06 999.00		.10
20 9 2 6 236.50	19.57 5.75	69.93 999.00		.73 6.17	71.00 242.20		9.91	70.15 999.00	-0.86 999.00		.01
20 9 2 7 220.20	14.70 2.68	68.48 999.00		.27 4.19	69.03 217.30		12.61	69.27 999.00	-0.71 999.00		.00
20 9 2 8 211.20	15.51 3.16	68.65 999.00		.89 4.32	69.49 207.50		13.97	69.29 999.00	-0.65 999.00		.00
20 9 2 9 236.00	13.06 5.13	69.27 999.00		.20 6.92	69.83 239.10		12.59	69.98 999.00	-0.83 999.00		.00
20 9 2 10 237.70	16.73 6.88	69.31 999.00	235.40 14	.89 6.19	69.68 242.90	9.69	11.31	70.18 999.00	-0.81 999.00	-1.07 0.	.02
20 9 2 11 233.50	14.52 5.66	70.09 999.00	232.60 13	.71 6.59	70.67 239.70	10.48	11.42	71.70 999.00	-2.25 999.00	-2.45 0.	.00
20 9 2 12 240.00	18.68 5.83	70.09 999.00	238.40 17	.69 6.75	70.67 244.50	13.11	12.16	71.70 999.00	-2.60 999.00	-3.21 0.	.00
20 9 2 13 244.60	16.07 6.65	73.72 999.00	242.50 15	.29 7.09	74.70 246.60	10.33	10.48	75.88 999.00	-1.84 999.00	-1.04 0.	.00
20 9 2 14 255.30	16.79 8.61	73.94 999.00	254.30 15	.66 9.14	74.16 261.70	10.73	12.31	75.90 999.00	-1.03 999.00	-1.22 0.	.00
20 9 2 15 255.30	19.68 7.20	73.31 999.00	254.20 18	.64 7.65	73.77 255.80	12.38	11.84	73.85 999.00	-1.69 999.00	-1.76 0.	.00
20 9 2 16 239.10	15.90 5.97	74.15 999.00	236.50 15	.31 5.85	74.41 236.90		8.95	76.40 999.00	-2.38 999.00	-1.84 0.	.00
20 9 2 17 237.70	13.74 4.74	75.19 999.00	235.80 13	.19 4.51	75.48 239.00	9.66	9.92	77.33 999.00	-1.91 999.00	-1.28 0.	.00
20 9 2 18 259.50	11.07 8.19	76.73 999.00	258.20 10	.01 9.87	76.98 261.50		11.59	78.32 999.00	-1.25 999.00	-0.98 0.	.00
20 9 2 19 270.90	11.66 6.27	77.20 999.00		.51 5.52	77.42 265.30		9.83	78.13 999.00	-0.51 999.00		.00
20 9 2 20 289.50	15.75 2.46	76.35 999.00		.29 3.02	76.79 280.80		7.82	76.13 999.00	0.98 999.00		.00
20 9 2 21 282.40	15.33 1.62	75.57 999.00		.89 1.43	76.72 267.70		6.48	74.10 999.00	1.60 999.00		.00
20 9 2 22 302.20	14.19 2.62	74.64 999.00		.66 2.83	76.15 269.30		4.46	73.05 999.00	1.38 999.00		.00
20 9 2 23 297.90	11.34 1.73	73.19 999.00		.86 1.12	74.95 228.50		12.50	71.32 999.00	2.12 999.00		.00
20 9 2 24 293.70	10.03 1.62	72.00 999.00		.97 1.74	74.13 199.00		7.65	68.64 999.00	3.78 999.00		.00
20 9 3 1 296.50	9.58 1.84	71.55 999.00		.78 2.80	73.39 272.60		11.78	66.90 999.00	6.28 999.00		.00
20 9 3 2 300.60	5.02 10.27	72.25 999.00		.68 11.31	73.49 179.70		7.77	65.68 999.00	6.69 999.00		.00
20 9 3 3 212.80	5.91 6.14	72.25 999.00		.61 2.06	73.49 183.00		12.02	65.68 999.00	5.93 999.00		.00
20 9 3 4 196.00	7.64 3.69	70.49 999.00		.45 3.81	71.34 186.10		9.26	64.39 999.00	6.49 999.00		.00
20 9 3 5 165.00	9.17 1.36	71.47 999.00		.30 2.22	72.14 160.50		12.43	64.40 999.00	7.03 999.00		.00
20 9 3 6 171.40	15.30 0.68	71.47 999.00		.71 0.57	72.14 188.70		12.20	64.40 999.00	6.21 999.00		.00
20 9 3 7 170.80	18.83 1.98	72.14 999.00		.26 1.80	71.89 189.50		17.26	65.69 999.00	6.19 999.00		.00
20 9 3 8 193.50	17.18 3.48	69.74 999.00		.14 2.11	67.63 198.90		11.34	65.88 999.00	2.32 999.00		.00
20 9 3 9 197.00	17.02 3.23	68.36 999.00		.46 3.26	66.94 190.20		12.35	66.23 999.00	1.05 999.00		.00
20 9 3 10 188.10	13.06 6.04		185.80 11		68.12 193.50		17.09	69.62 999.00	-2.06 999.00		.00
20 9 3 11 205.30	12.97 6.52	70.77 999.00		.60 6.39	71.15 212.60		15.16	73.65 999.00	-2.90 999.00		.00
20 9 3 12 216.60	15.62 6.79	73.75 999.00		.70 8.20	74.13 225.80		15.22	76.80 999.00	-3.06 999.00		.00
20 9 3 13 216.40	16.85 6.49	76.17 999.00		.03 8.58	76.57 224.20		12.45	79.20 999.00	-2.95 999.00		.00
20 9 3 14 224.60	18.22 8.60	77.58 999.00	223.90 17		77.97 231.80		13.34	80.63 999.00	-3.04 999.00		.00
20 9 3 15 213.90	19.47 7.49	78.44 999.00		.56 8.64	78.84 218.70		15.27	81.60 999.00	-3.11 999.00		.00
20 9 3 16 223.60	23.17 4.24				79.75 230.20		10.28	82.05 999.00	-2.42 999.00		.00
20 9 3 17 227.90	22.86 5.57				80.94 235.00		10.40	82.70 999.00	-1.94 999.00		.00
20 9 3 18 225.70	22.81 5.46	81.26 999.00		.60 5.86			10.07	83.22 999.00	-1.74 999.00		.00
20 9 3 19 224.10	19.16 4.09	81.31 999.00			81.65 225.20		10.50	82.75 999.00	-0.79 999.00		.00
20 9 3 20 221.50	18.52 2.15	80.32 999.00			80.55 219.40		11.99	80.10 999.00	0.59 999.00		.00
20 9 3 21 219.10	19.76 2.50	79.20 999.00			79.38 218.80		11.76	78.57 999.00	0.67 999.00		.00
20 9 3 22 271.10	20.45 16.16	77.65 999.00			77.78 271.70		17.35	77.13 999.00	0.48 999.00		.00
20 9 3 23 309.90	24.56 5.61	76.18 999.00			76.55 311.70		11.10	77.03 999.00	-0.94 999.00		.00
20 9 3 24 313.80	26.76 3.57	73.58 999.00	310.40 25	.43 4.86	73.95 313.20	16.22	10.33	74.45 999.00	-0.81 999.00	-0.30 0.	.00

20 9 4 1 309.70		6.45		999.00		21.11	6.63		309.60	12.83	12.33		999.00		999.00	-0.34	0.00
20 9 4 2 317.80		7.00	68.19	999.00		17.82	7.44		317.20	10.47	11.95	68.90	999.00	-0.56	999.00	-0.19	0.00
20 9 4 3 318.80		5.02	66.99	999.00		17.42	5.78		319.80	10.40	11.76	67.58	999.00	-0.52	999.00	-0.09	0.00
20 9 4 4 318.70		6.94	66.99		315.20	15.07	7.08		316.40	8.79	12.17	67.58	999.00	-0.33	999.00	0.03	0.00
20 9 4 5 306.20		10.96	65.09		291.00	12.01	12.91		259.80	6.20	12.14	64.14	999.00	1.43	999.00	2.00	0.00
20 9 4 6 299.50		4.72	63.29		291.80	15.17	4.03		258.70	6.12	7.68	61.67	999.00	2.36	999.00	3.84	0.00
20 9 4 7 292.80		2.54	63.29	999.00	277.30	13.86	2.41		247.90	6.07	5.25	61.67	999.00	2.06	999.00	2.69	0.00
20 9 4 8 290.50		1.95	60.58		276.40	14.06	2.41		245.50	6.21	6.70	58.26	999.00	2.06	999.00	2.61	0.00
20 9 4 9 291.20		3.26	60.89		273.40	11.74	5.57		259.50	6.46	11.63	60.08	999.00	-0.11	999.00	-0.83	0.00
20 9 4 10 285.60		8.38	61.67		280.40	10.25	7.64		276.00	7.44	11.87	63.65	999.00	-2.68	999.00	-2.16	0.00
20 9 4 11 286.40		12.98	63.78	999.00	284.70	10.28	13.11	64.10		7.77	20.58	66.60	999.00	-2.82	999.00	-2.25	0.00
20 9 4 12 293.10		13.67	65.05		292.30	9.90	12.48		303.10	8.01	18.22	68.08	999.00	-3.31	999.00	-2.59	0.00
20 9 4 13 264.50		12.17	66.65		262.50	13.87	13.42		264.10	11.00	20.01	69.68	999.00	-3.09	999.00	-2.28	0.00
20 9 4 14 258.40	13.10	17.56	68.15	999.00	257.00	12.78	18.09	68.59	259.60	10.11	20.74	71.38	999.00	-3.28	999.00	-2.48	0.00
20 9 4 15 258.00	13.93	9.23	69.74	999.00	257.70	13.44	9.42	70.15	264.50	10.44	13.09	72.85	999.00	-3.08	999.00	-2.40	0.00
20 9 4 16 278.60	15.91	9.63	71.05	999.00	275.40	15.58	9.86	71.44	279.00	11.77	15.01	74.00	999.00	-2.82	999.00	-2.36	0.00
20 9 4 17 281.60	15.44	17.00	71.83	999.00	279.50	14.92	17.52	72.22	285.20	10.28	21.42	74.60	999.00	-2.87	999.00	-2.39	0.00
20 9 4 18 292.00	13.27	9.95	72.01	999.00	288.40	13.09	9.79	72.38	289.10	9.60	16.06	74.38	999.00	-2.67	999.00	-1.85	0.00
20 9 4 19 273.20	13.80	7.64	72.03	999.00	272.30	12.61	7.99	72.34	275.10	7.93	10.59	74.00	999.00	-1.73	999.00	-1.03	0.00
20 9 4 20 285.90	17.34	4.20	71.39	999.00	282.40	15.84	4.55	71.72	283.30	7.64	8.89	72.00	999.00	0.12	999.00	0.79	0.00
20 9 4 21 286.00	19.44	2.60	68.76	999.00	281.30	17.37	3.07	69.38	273.80	7.26	8.82	68.00	999.00	1.24	999.00	2.06	0.00
20 9 4 22 285.50	19.76	2.62	66.85	999.00	279.40	16.80	3.11		267.00	6.31	8.28	65.49	999.00	1.63	999.00	2.51	0.00
20 9 4 23 285.30	17.51	2.07	65.43	999.00	277.40	15.43	1.52	66.36	269.50	5.44	8.37	63.60	999.00	2.05	999.00	3.45	0.00
20 9 4 24 287.00	14.38	1.01	64.75	999.00	276.30	11.15	1.66	66.17	244.00	5.44	3.35	62.26	999.00	2.08	999.00	2.57	0.00
20 9 5 1 278.90	9.80	1.80	64.96	999.00	269.20	8.89	2.28	66.35	184.50	3.14	10.67	60.81	999.00	6.25	999.00	6.85	0.00
20 9 5 2 230.20	17.48	2.17	64.98	999.00	221.20	15.31	3.14	64.84	212.00	5.14	8.49	58.47	999.00	6.02	999.00	3.82	0.00
20 9 5 3 221.90		1.74	63.08	999.00	214.10	16.54	2.90		210.20	5.88	11.80	57.68	999.00	3.41	999.00	2.04	0.00
20 9 5 4 230.40		0.86	62.92		222.40	16.72	1.73		213.30	5.85	9.60	57.03	999.00	6.50	999.00	3.20	0.00
20 9 5 5 222.30		1.90	61.10		211.30	16.37	3.27		201.00	5.32	14.04	56.82	999.00	3.94	999.00	2.79	0.00
20 9 5 6 225.70		1.71	59.28		218.50	17.39	2.04		205.80	5.98	11.13	55.77	999.00	3.36	999.00	2.82	0.00
20 9 5 7 244.40		1.74	58.26	999.00	234.10	16.04	2.28		219.50	6.66	10.55	55.65	999.00	2.28	999.00	1.74	0.00
20 9 5 8 246.60		3.84	57.22		235.70	14.88	5.19		217.40	7.06	12.70	55.71	999.00	1.14	999.00	0.72	0.00
20 9 5 9 246.60	13.30	5.44	56.59		237.80	11.12	5.79		227.20	7.37	9.91	56.89	999.00	-0.54	999.00	-0.66	0.00
20 9 5 10 219.70		6.14	57.90		216.20	10.33	8.25		229.90	9.62	9.08	59.75	999.00	-2.63	999.00	-1.53	0.00
20 9 5 11 195.70		6.96	57.90	999.00		7.73	7.06		197.50	5.64	19.82	59.75	999.00	-2.69	999.00	-0.89	0.00
20 9 5 12 190.50	11.90	6.27	66.29	999.00		11.37	6.62	66.68	191.80	7.42	18.91	69.61	999.00	-3.34		-1.17	0.00
20 9 5 13 226.50		7.10	70.33	999.00	224.10	14.19	7.15		229.50	10.37	13.13	73.60	999.00	-3.00	999.00	-1.86	0.00
20 9 5 14 215.60		6.85	70.33		212.80	18.64	7.32	70.79	217.60	12.38	13.98	73.60	999.00	-3.17	999.00	-1.95	0.00
20 9 5 15 214.10		7.23	74.68		211.30	21.13	8.06	75.07		14.32	13.67	77.63	999.00	-3.00	999.00	-1.99	0.00
20 9 5 16 218.50		5.22	78.03		215.90	25.87	6.31		225.00	17.51	11.22	80.82	999.00	-2.52	999.00	-1.38	0.00
20 9 5 17 223.80			999.00	999.00	221.40	26.54	6.48	999.00	229.90	18.16	11.60	81.13	999.00	-1.58	999.00	-0.79	0.00
20 9 5 18 226.70		4.90	79.52	999.00	224.20	27.01	5.26	79.90	230.50	17.32	9.75	80.80	999.00	-1.09	999.00	-0.47	0.00
20 9 5 19 227.40		4.43		999.00		16.60	4.66		226.40	9.01	9.92		999.00		999.00	0.13	0.00
20 9 5 20 249.50				999.00		14.90	5.74	77.88		7.62			999.00		999.00	0.68	0.00
20 9 5 21 341.20		24.60		999.00		19.79	25.29		347.40	13.32	30.44		999.00		999.00	-0.77	0.00
20 9 5 22 24.19		4.24		999.00	20.75	15.44	6.14	68.10	28.86	13.20	8.83		999.00		999.00	-1.19	0.00
20 9 5 23 54.68		5.00		999.00	51.92	10.74	5.79	66.46			12.42		999.00		999.00	-0.70	0.00
20 9 5 24 24.92		3.62		999.00	22.02	11.59	4.99	66.70	30.53	9.07	9.54		999.00		999.00	-1.08	0.00
20 9 6 1 32.24		9.72		999.00	28.92	6.29	10.64	66.70	38.26	5.45	16.89		999.00		999.00	-0.71	0.00
20 9 6 2 26.50		9.43		999.00	20.06	4.97	11.45		268.20	1.68	41.07		999.00		999.00	1.26	0.00
20 9 6 3 17.1		16.61		999.00	8.27	3.50	18.74		262.30	3.03	10.58		999.00		999.00	2.09	0.00
20 9 6 4 335.40	4.93	6.31	64.48	999.00	328.90	4.86	5.49	66.08	266.80	3.51	6.90	61.99	999.00	3.39	999.00	4.87	0.00

20 0 6 5 5 11	2 52 11 12	C2 7E 00	0 00 350 70	2 21	0 64	CE	227 10	1 00	22 21	CO 17	000 00	2 44	000 00	4 26	0 00
20 9 6 5 5.11 20 9 6 6 323.60	3.53 11.12 2.31 64.97		9.00 352.70 9.00 285.30	3.31 2.79	8.64	65.66 65.37		1.89	32.31 17.64		999.00		999.00	4.36	0.00
20 9 6 6 323.60 20 9 6 7 273.20	2.83 6.42		9.00 285.30 9.00 269.10	3.19	18.58 4.61	65.40		4.52 2.76	7.62	60.49 59.16	999.00 999.00	3.39 4.50	999.00 999.00	5.63 6.49	0.00
20 9 6 8 273.20	5.74 7.03		9.00 269.10	6.33	3.73	65.26		3.97	17.02	58.93	999.00	4.15	999.00	5.66	0.00
20 9 6 9 275.90	2.55 14.52		9.00 273.40	3.22	4.81	65.26		3.01	14.00	58.93	999.00	1.81	999.00	3.06	0.00
20 9 6 10 303.30	0.81 67.15		9.00 273.40	1.54	13.74	64.14		2.30	13.75	62.53	999.00	0.72	999.00	0.58	0.00
20 9 6 11 180.70	3.57 19.02		9.00 181.40	3.20	22.09	63.66		2.84	38.35	65.07	999.00	-2.22	999.00	-0.37	0.00
20 9 6 12 177.10	7.23 14.48		9.00 175.20	6.91	15.92	66.16		4.79	24.73	68.80	999.00	-2.92	999.00	-0.69	0.00
20 9 6 13 166.00	11.33 9.29		9.00 162.40	10.82	10.72	68.24		6.51	24.73	71.00	999.00	-3.22	999.00	-1.23	0.00
20 9 6 14 172.80	11.17 7.67		9.00 168.30	10.82	9.20	69.80		5.18	23.78	72.20	999.00	-2.26	999.00	-0.96	0.00
20 9 6 15 206.80	13.31 7.79		9.00 205.40	12.22	8.29	69.80		6.24	15.46	72.20	999.00	-1.01	999.00	-0.33	0.00
20 9 6 16 188.60	4.59 16.27		9.00 195.70	3.20	23.21	67.86		1.65	53.38	65.80	999.00	0.93	999.00	0.49	0.00
20 9 6 17 116.60	12.86 7.62		9.00 111.80	11.56	8.50	68.55		5.00	16.59	68.64	999.00	-0.41	999.00	-0.09	0.00
20 9 6 18 150.60	13.92 5.94		9.00 146.20	11.94	7.30	70.01		5.24	19.89	70.55	999.00	-1.04	999.00	-0.53	0.00
20 9 6 19 140.80	14.65 6.09		9.00 136.00	12.90	7.14	71.29		7.00	15.10	72.50	999.00	-1.20	999.00	-0.45	0.00
20 9 6 20 147.70	20.72 3.13		9.00 144.00	17.54	4.70	71.26		6.13	18.95	71.53	999.00	-0.19	999.00	0.06	0.00
20 9 6 21 154.60	22.80 4.03		9.00 150.50	18.92	5.12	70.16		6.53	19.89	69.96	999.00	0.13	999.00	0.17	0.00
20 9 6 22 165.70	24.48 3.61		9.00 160.90	20.99	4.84	70.14		7.37	21.69	69.75	999.00	0.29	999.00	0.30	0.00
20 9 6 23 176.60	25.27 4.36		9.00 172.40	21.75	5.61	70.62		10.05	17.47	70.50	999.00	-0.30	999.00	-0.21	0.00
20 9 6 24 185.70	28.59 5.66	70.65 99	9.00 181.90	25.15	6.11	70.84	192.70	13.11	16.95	70.93	999.00	-0.46	999.00	-0.38	0.00
20 9 7 1 191.00	30.83 5.58	71.56 99	9.00 187.70	27.45	6.07	71.79	195.40	13.53	15.85	72.07	999.00	-0.47	999.00	-0.32	0.00
20 9 7 2 194.50	33.71 5.58	71.63 99	9.00 190.80	30.12	6.68	71.90	200.60	14.75	15.36	72.25	999.00	-0.60	999.00	-0.37	0.00
20 9 7 3 197.00	35.54 5.22	72.24 99	9.00 192.80	32.00	6.59	72.51	201.10	15.06	16.47	72.85	999.00	-0.65	999.00	-0.44	0.00
20 9 7 4 202.60	37.59 4.73	72.26 99	9.00 198.70	34.48	5.41	72.54	207.30	17.64	14.32	72.90	999.00	-0.58	999.00	-0.31	0.00
20 9 7 5 200.40	31.73 6.51	72.79 99	9.00 196.70	27.80	7.88	73.07	203.30	13.82	17.95	73.48	999.00	-0.65	999.00	-0.34	0.13
20 9 7 6 219.60	21.80 10.35	66.72 99	9.00 219.20	19.10	11.48	68.46	233.30	10.94	16.67	66.69	999.00	0.13	999.00	-0.39	0.80
20 9 7 7 213.50	26.08 4.20	64.46 99	9.00 210.40	23.57	5.16	65.70	217.30	12.83	13.15	65.05	999.00	-0.31	999.00	0.40	0.01
20 9 7 8 208.10	21.13 4.72	66.31 99	9.00 203.50	18.12	6.06	67.24	204.30	7.99	15.03	66.20	999.00	-0.26	999.00	0.83	0.00
20 9 7 9 212.40	20.95 4.94	67.78 99	9.00 207.70	17.84	5.89	67.74	211.10	8.40	13.84	67.35	999.00	0.80	999.00	0.40	0.11
20 9 7 10 209.70	15.93 3.49	65.66 99	9.00 203.50	13.82	4.84	67.16	195.90	6.03	13.52	65.89	999.00	-0.39	999.00	-0.21	0.00
20 9 7 11 215.90	19.12 5.57		9.00 212.00	16.55	7.25	68.10		8.15	14.68	66.84	999.00	-0.65	999.00	-0.28	0.26
20 9 7 12 198.50	17.01 4.44		9.00 192.70	14.60	5.73	67.91		6.23	15.72	67.92	999.00	-1.06	999.00	-0.93	0.13
20 9 7 13 201.50	17.74 5.07		9.00 196.80	15.30	6.12	68.15		6.43	15.03	68.55	999.00	-1.13	999.00	-1.11	0.00
20 9 7 14 192.40	16.79 5.73		9.00 187.90	15.07	6.50	68.15		7.64	17.31	68.55	999.00	-1.90	999.00	-1.88	0.00
20 9 7 15 194.10	13.92 6.28		9.00 189.50	13.27	6.93	71.12		8.38	15.70	72.53	999.00	-2.34	999.00	-1.62	0.00
20 9 7 16 192.20	13.24 4.52		9.00 186.10	12.20	6.59	71.50		7.18	16.45	73.22	999.00	-1.91	999.00	-1.00	0.00
20 9 7 17 188.80	12.68 4.17		9.00 185.50	12.42	4.39	71.32		7.39	14.49	73.45	999.00	-2.18	999.00	-1.65	0.00
20 9 7 18 177.40	7.16 7.99		9.00 172.40	6.57	8.28	71.41		3.95	16.95	72.95	999.00	-1.97	999.00	-1.51	0.00
20 9 7 19 154.30 20 9 7 20 182.40	10.79 5.93		9.00 148.30 9.00 179.50	9.80	7.10	70.65 69.93		4.96	19.21 12.55	71.88	999.00	-1.78	999.00	-1.59	0.00
20 9 7 20 182.40 20 9 7 21 195.90	12.47 2.90 14.14 2.68		9.00 179.30	11.50 11.78	3.03 3.01	69.59		5.41 4.38	12.33	70.90 69.69	999.00 999.00	-0.86 0.28	999.00 999.00	-1.12 -0.50	0.00
20 9 7 21 193.90	9.90 2.27		9.00 192.30	7.84	3.38	69.46		1.90	12.39	68.81	999.00	0.28	999.00	-0.04	0.00
20 9 7 23 166.50	14.39 0.99		9.00 157.10	13.16	1.36		157.60	3.71	15.14		999.00	0.78	999.00	-0.12	0.00
20 9 7 24 174.60	13.67 4.27		9.00 170.40	11.53	5.27	68.19					999.00		999.00	-1.16	0.00
20 9 8 1 197.10	11.97 6.33		9.00 170.40	9.88	7.22	68.26		4.05	16.31		999.00		999.00	-1.22	0.00
20 9 8 2 205.10	11.63 5.26		9.00 191.10	9.57	6.44	67.91		3.62	16.92		999.00		999.00	-1.27	0.00
20 9 8 3 177.30	8.15 7.74		9.00 167.80	6.64	9.50	67.91		3.00	18.10		999.00		999.00	-0.97	0.00
20 9 8 4 186.00	9.10 4.76		9.00 180.40	7.63	4.80	68.60		2.25	21.07		999.00		999.00	-1.17	0.00
20 9 8 5 232.60	12.45 7.23		9.00 234.00	10.27	8.06	68.50		4.27	12.27		999.00		999.00	-0.20	0.00
20 9 8 6 255.60	9.44 14.43		9.00 262.20	7.40	16.74	68.07		3.27	18.39		999.00		999.00	-1.08	0.02
20 9 8 7 152.50	10.61 4.45		9.00 146.80	9.19	5.03	67.36		3.09	37.85		999.00		999.00	-0.61	0.00
20 9 8 8 192.60	5.86 6.20		9.00 179.90	5.14	8.74	68.30		1.12	25.35		999.00		999.00	0.52	0.00
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20 0 0 0	F0 0F	7 00	6 64	CO 24	000 00	F2 70	7 [7	F F2	CO F1	75 50	4 00	16.06	C7 74	000 00	0 10	000 00	0.70	0 00
20 9 8 9	52.95	7.22	6.64		999.00	53.72	7.57	5.53	68.51	75.50	4.02	16.96		999.00		999.00	-0.79	0.00
20 9 8 10	25.66	20.82	3.53	67.89	999.00	21.10	17.65	5.14	68.30	29.42	15.25	8.86	69.39	999.00	-1.97	999.00	-2.34	0.00
20 9 8 11	45.78	13.52	7.97	64.61	999.00	42.36	11.93	8.53	65.17	51.18	10.10	15.45	66.78	999.00	-2.55	999.00	-2.96	0.00
20 9 8 12 20 9 8 13	97.80 124.10	15.05	5.79	66.13	999.00	93.40	14.17	8.02		105.70	8.24	16.29	68.77	999.00	-3.66	999.00	-4.00	0.00
		7.75	35.52	69.95	999.00	104.30	7.69	39.91	70.42	86.50	5.72	44.56	72.93	999.00	-3.02	999.00	-4.00	0.00
20 9 8 14 20 9 8 15	160.20 172.30	17.25 11.58	6.58	74.09	999.00	156.90 169.10	16.53 11.15	7.54		170.20 174.90	8.59	19.67 23.12	77.00	999.00	-3.38	999.00 999.00	-0.73 -1.53	0.00
20 9 8 15 20 9 8 16	227.40	7.27	10.95 10.44	77.31 79.82	999.00 999.00	228.90	6.72	11.61 11.79	80.30	246.40	6.70 4.36	13.72	80.78 82.75	999.00 999.00	-3.49 -2.01	999.00	-1.06	0.00
20 9 8 17	12.68	22.34	6.49	79.02	999.00	8.75	20.39	7.60	72.06	15.03	16.31	9.74	74.07	999.00	-2.46	999.00	-1.18	0.00
20 9 8 18	24.95	20.59	4.73	65.89	999.00	22.33	17.20	7.54	66.43	29.75	15.46	10.70	68.18	999.00	-2.40	999.00	-1.16	0.00
20 9 8 19	11.35	15.32	10.23	65.61	999.00	9.50	14.63	10.01	66.15	15.29	11.72	12.73	67.64	999.00	-2.10	999.00	-1.33	0.00
20 9 8 20	12.93	13.16	12.83	64.57	999.00	11.46	11.94	13.08	65.09	16.29	9.84	18.60	66.46	999.00	-1.80	999.00	-1.28	0.00
20 9 8 21	37.41	13.19	7.99	64.63	999.00	35.37	10.91	8.85	65.17	42.86	10.10	13.56	66.40	999.00	-1.74	999.00	-1.25	0.00
20 9 8 22	58.03	13.32	5.67	65.65	999.00	54.76	12.83	6.40	66.13	64.93	9.01	12.71	67.27	999.00	-1.59	999.00	-1.12	0.00
20 9 8 23	57.02	10.58	6.18	66.11	999.00	51.94	9.85	6.95	66.59	63.68	6.94	12.71	67.71	999.00	-1.57	999.00	-1.10	0.00
20 9 8 24	38.10	8.31	10.01	66.59	999.00	36.34	7.30	10.86	67.08	42.19	7.12	14.36	68.19	999.00		999.00	-1.15	0.00
20 9 9 1	34.83	8.67	9.19	67.21		33.15	7.62	10.86	67.71	38.57	7.17	13.72	68.78	999.00	-1.59	999.00	-1.15	0.00
20 9 9 2	0.04	9.30	10.16	66.31	999.00	356.20	9.33	9.43	66.78	3.45	7.81	12.44	67.97	999.00	-1.71	999.00	-1.20	0.00
20 9 9 3	351.10	12.64	6.52	65.23	999.00	347.30	12.34	6.29	65.72	347.90	10.01	10.38	66.97	999.00	-1.81	999.00	-1.15	0.00
20 9 9 4	22.72	10.05	7.22	63.93	999.00	18.80	8.87	7.66	64.31	18.62	7.36	13.44	65.56	999.00	-1.39	999.00	-1.10	0.00
20 9 9 5	35.23	5.65	12.88	64.75	999.00	29.28	5.03	14.47	65.05	24.95	4.82	19.39	66.12	999.00	-1.44	999.00	-1.15	0.00
20 9 9 6	53.12	4.87	13.56	65.37	999.00	53.49	4.90	12.77	65.76	58.79	3.00	34.38	66.82	999.00	-1.42	999.00	-1.14	0.00
20 9 9 7		6.43	12.18	65.86	999.00	350.50	6.10	11.70	66.49	349.60	5.03	12.36	67.60	999.00	-1.82	999.00	-1.23	0.00
20 9 9 8	35.59	9.93	9.18	65.71	999.00	31.85	8.77	9.86	66.23	32.79	8.88	13.44	67.37	999.00	-1.47	999.00	-0.91	0.00
20 9 9 9	46.64	10.44	7.53	64.43	999.00	43.61	9.54	7.97	64.75	53.65	8.31	13.41	65.82	999.00	-1.34	999.00	-0.94	0.00
20 9 9 10	48.94	9.29	8.30	64.43	999.00	46.09	8.50	8.40	64.75	60.78	6.80	14.95	65.82	999.00	-1.43	999.00	-1.08	0.00
20 9 9 11	45.59	7.10	9.80	63.97	999.00	43.22	6.45	9.92	64.34	49.96	5.98	15.20	65.71	999.00	-1.98	999.00	-1.74	0.00
20 9 9 12	61.24	7.08	9.94	64.46	999.00	56.48	6.71	11.20	65.03	55.02	6.34	14.35	66.92	999.00	-2.51	999.00	-1.62	0.00
20 9 9 13	87.20	6.15	16.08	65.59	999.00	84.00	6.21	16.07	66.13	88.70	4.24	28.94	68.08	999.00	-2.59	999.00	-1.68	0.00
20 9 9 14	78.50	5.18	11.39	66.30	999.00	71.80	4.94	14.18	66.71	76.20	4.50	24.35	68.49	999.00	-2.03	999.00	-1.25	0.00
20 9 9 15	68.07	5.44	10.17	67.10	999.00	62.89	5.72	10.86	67.26	61.29	5.46	15.67	69.22	999.00	-2.25	999.00	-1.18	0.00
20 9 9 16	68.31	5.64	10.70	67.46	999.00	63.72	5.72	13.26	67.70	66.38	5.17	24.39	69.60	999.00	-2.10	999.00	-1.25	0.00
20 9 9 17	49.14	6.44	14.08	67.34	999.00	45.02	5.93	10.56	67.81	44.89	5.55	13.14	69.62	999.00	-2.58	999.00	-1.10	0.00
20 9 9 18	50.86	6.60	7.84	67.24	999.00	47.63	6.48	8.08	68.00	57.06	6.12	12.30	69.60	999.00	-2.38	999.00	-1.20	0.00
20 9 9 19	57.61	9.02	7.25	67.42	999.00	53.86	9.01	7.65	68.06	64.65	6.79	11.66	69.46	999.00	-1.79	999.00	-1.18	0.00
20 9 9 20	55.35	8.79	13.28	67.75	999.00	52.89	8.09	13.65	68.23	54.03	6.02	13.17	69.40	999.00	-1.54	999.00	-1.12	0.00
20 9 9 21	74.90	11.93	3.90	68.12	999.00	73.50	11.85	4.30	68.58	89.50	6.35	13.58	69.58	999.00	-1.44	999.00	-0.97	0.00
20 9 9 22	70.50	11.54	3.94	67.97	999.00	67.31	11.67	4.20	68.44	74.50	6.74	15.30	69.44	999.00	-1.52	999.00	-1.04	0.00
20 9 9 23	88.60	11.04	8.22	67.73	999.00	85.60	10.26	10.57	68.21	97.50	4.88	18.29	69.20	999.00	-1.46	999.00	-0.98	0.00
20 9 9 24	92.00	10.51	6.57	67.65	999.00	87.80	9.51	8.28	68.13	94.10	4.37	16.45	69.12	999.00	-1.39	999.00	-0.96	0.00
20 9 10 1	84.00	9.20	4.65	68.18	999.00	78.40	8.50	5.67	68.65	83.90	3.81	15.86	69.56	999.00	-1.37	999.00	-0.91	0.00
20 9 10 2	91.60	8.11	5.61	68.47	999.00	87.10	7.71	6.07	68.93	86.80	3.95	13.04	69.82	999.00	-1.36	999.00	-0.93	0.00
20 9 10 3	99.30	4.24	12.38		999.00	96.80	4.15	9.50	68.99	95.40	2.50	17.90		999.00		999.00	-0.97	0.00
20 9 10 4		4.19	6.27		999.00		3.53	7.59	69.06			19.01				999.00	-0.77	0.00
20 9 10 5		1.58	19.93		999.00	79.10	1.38	21.69		306.60		15.18		999.00		999.00	-0.32	0.00
20 9 10 6		1.73	35.26		999.00		2.47	29.43		225.10	2.90	8.25		999.00		999.00	-0.27	0.00
20 9 10 7		6.33	5.32		999.00	299.40	6.29	4.89		292.50	2.93	13.75		999.00		999.00	-0.09	0.00
20 9 10 8	24.35	11.84	5.09		999.00	20.38	10.05	7.14	69.04	21.78	8.89	11.97		999.00		999.00	-0.95	0.00
20 9 10 9	14.92	16.09	8.34		999.00	10.53	14.23	8.54	67.48	14.30	10.91	11.17		999.00		999.00	-1.73	0.00
20 9 10 10	25.75	17.36	4.43		999.00	22.95	14.27	6.69	65.69	33.35	12.27	9.35		999.00		999.00	-1.94	0.00
20 9 10 11		14.02	5.80		999.00	30.57	11.19	8.26	65.02	36.91	10.78	9.22		999.00		999.00	-1.41	0.00
20 9 10 12	32.59	15.27	7.55	64.34	999.00	30.55	12.65	8.45	64.88	38.15	11./I	12.95	65.63	999.00	-1.61	999.00	-1.47	0.00

20	9 10 13	26.38	15.62	5.54	63.96	999.00	25.08	13.02	6.86	64.51	33.25	11.75	10.33	65.78	999.00	-1.79	999.00	-1.45	0.00
20	9 10 14	39.60	10.87	8.51	64.74	999.00	38.88	9.39	9.05	65.29	44.91	8.94	12.18	66.77	999.00	-2.27	999.00	-1.91	0.00
20	9 10 15	26.76	14.26	5.92	64.49	999.00	22.09	12.46	6.31	65.07	29.28	10.95	8.67	66.61	999.00	-1.96	999.00	-1.62	0.00
20	9 10 16	22.74	13.99	7.62	64.36	999.00	19.05	12.03	8.87	64.90	29.23	10.15	12.45	65.98	999.00	-1.51	999.00	-0.81	0.00
	9 10 17	22.84	15.61	5.02	64.10	999.00	18.97	13.57	6.68	64.63	26.32	11.07	10.31	65.61	999.00	-1.81	999.00	-1.24	0.00
	9 10 18	27.89	12.71	8.27	63.78	999.00	24.99	10.54	9.54	64.30	31.68	9.99	12.38	65.52	999.00	-1.64	999.00	-1.42	0.00
	9 10 19	28.36	13.61	6.43	64.08	999.00	24.29	11.89	5.99	64.59	32.12	10.80	8.05	65.76	999.00	-1.61	999.00	-1.35	0.00
	9 10 20	24.02	16.79	5.05	63.75	999.00	21.56	14.02	6.49	64.25	30.50	12.29	9.77	65.43	999.00	-1.70	999.00	-1.35	0.00
				7.51	63.75	999.00	26.57	12.19	8.56	64.25	37.36	11.32		65.43	999.00	-1.69	999.00		0.00
20		29.04	14.60										9.64					-1.29	
	9 10 22	28.03	14.45	9.54	62.24	999.00	27.14	11.87	10.47	62.77	42.53	10.28	12.74	63.98	999.00	-1.68	999.00	-1.24	0.00
	9 10 23	25.10	16.72	5.76	61.43	999.00	22.16	14.30	7.66	61.96	32.81	11.74	9.85	63.16	999.00	-1.73	999.00	-1.27	0.00
20	9 10 24	25.96	18.81	6.74	61.43	999.00	22.06	15.90	8.39	61.96	31.72	13.78	11.72	63.16	999.00	-1.76	999.00	-1.26	0.00
20		22.47	18.30	4.23	60.21	999.00	19.23	15.47	6.48	60.73	29.41	13.31	9.49	61.97	999.00	-1.74	999.00	-1.25	0.00
20	9 11 2	29.35	15.42	7.34	59.90	999.00	27.19	12.73	9.11	60.41	34.74	10.88	12.26	61.61	999.00	-1.70	999.00	-1.25	0.00
20	9 11 3	26.63	14.81	6.90	60.15	999.00	24.99	12.18	9.34	60.66	36.32	10.51	12.51	61.80	999.00	-1.67	999.00	-1.23	0.00
20	9 11 4	20.77	14.92	6.43	59.70	999.00	17.01	13.02	7.81	60.20	24.81	10.39	11.04	61.42	999.00	-1.71	999.00	-1.25	0.00
20	9 11 5	29.24	15.65	7.54	59.36	999.00	24.57	13.51	7.78	59.85	31.06	11.66	9.86	61.06	999.00	-1.62	999.00	-1.25	0.00
20	9 11 6	36.45	18.07	8.04	59.36	999.00	35.35	14.91	8.61	59.85	42.95	13.13	11.44	61.06	999.00	-1.75	999.00	-1.21	0.00
20	9 11 7	27.63	19.78	7.17	58.46	999.00	25.70	16.16	8.36	58.97	31.87	14.28	11.24	60.18	999.00	-1.70	999.00	-1.25	0.00
20	9 11 8	37.37	18.27	8.67	58.47	999.00	35.03	15.09	9.16	58.99	38.57	14.41	10.89	60.18	999.00	-1.69	999.00	-1.20	0.00
20		39.24	18.39	7.09	58.46	999.00	37.81	15.60	7.44	58.99	46.95	13.43	12.76	60.32	999.00	-2.12	999.00	-1.28	0.00
20		44.80	18.95	6.13	58.20	999.00	42.22	16.65	6.93	58.76	50.85	13.87	12.08	60.32	999.00	-2.16	999.00	-1.35	0.00
	9 11 11	43.67	14.69	8.45	58.34	999.00	41.40	12.96	8.73	58.94	47.17	11.73	14.74	60.75	999.00	-2.56	999.00	-1.39	0.00
	9 11 12	42.24	15.11	8.37	58.68	999.00	38.65	12.93	8.57	59.29	46.79	11.25	12.32	60.92	999.00	-2.21	999.00	-1.40	0.00
	9 11 12	46.82	16.73									12.76	12.32		999.00	-2.42	999.00		0.00
				6.60	59.26	999.00	43.71	15.05	7.07	59.87	50.79			61.65				-1.47	
	9 11 14	45.00	16.68	8.82	59.72	999.00	42.13	14.61	9.17	60.36	47.96	12.55	12.53	62.22	999.00	-2.53	999.00	-1.45	0.00
	9 11 15	44.06	13.88	8.19	60.07	999.00	41.45	12.26	8.13	60.71	50.66	11.01	12.63	62.59	999.00	-2.61	999.00	-1.50	0.00
	9 11 16	44.61	11.39	9.75	60.56	999.00	41.42	10.31	9.01	61.22	49.14	10.25	14.16	63.21	999.00	-2.68	999.00	-1.28	0.00
	9 11 17	47.78	13.45	6.01	61.35	999.00	43.37	12.26	6.25	62.07	49.05	10.76	12.18	64.32	999.00	-2.70	999.00	-1.43	0.00
	9 11 18	60.85	12.10	6.89	61.94	999.00	58.23	12.04	7.71	62.55	70.80	8.53	12.93	64.54	999.00	-2.11	999.00	-1.25	0.00
	9 11 19	67.47	12.74	5.83	61.92	999.00	64.22	12.26	6.45	62.40	69.23	7.93	13.09	63.80	999.00	-1.67	999.00	-1.11	0.00
20	9 11 20	61.83	15.61	5.96	62.02	999.00	58.64	14.90	7.68	62.46	67.80	9.42	13.11	63.56	999.00	-1.33	999.00	-0.91	0.00
20	9 11 21	68.46	19.91	4.01	62.39	999.00	65.23	19.31	4.29	62.81	69.94	12.16	11.25	63.50	999.00	-1.11	999.00	-0.77	0.00
20	9 11 22	72.60	20.15	5.21	62.39	999.00	70.30	19.52	6.05	62.81	75.70	9.93	14.53	63.46	999.00	-0.89	999.00	-0.57	0.00
20	9 11 23	72.70	19.69	6.08	62.57	999.00	69.61	18.42	7.53	62.98	72.60	11.08	11.85	63.59	999.00	-1.00	999.00	-0.61	0.00
20	9 11 24	84.20	19.64	6.46	62.75	999.00	80.60	18.07	7.37	63.16	89.60	8.82	18.49	63.70	999.00	-0.89	999.00	-0.50	0.00
20	9 12 1	88.30	19.19	6.62	63.09	999.00	85.50	17.73	6.82	63.49	94.80	8.29	17.75	63.96	999.00	-0.80	999.00	-0.43	0.00
20	9 12 2	118.20	12.35	6.03	63.08	999.00	118.80	11.17	7.51	63.49	131.60	5.37	22.04	64.06	999.00	-1.12	999.00	-0.65	0.00
20	9 12 3		11.92	5.73	62.50	999.00	98.30	11.31	5.68	62.78	109.80	4.55	14.93	62.67	999.00	-0.51	999.00	-0.16	0.00
20		117.00	11.16	2.71	62.50	999.00	119.70	10.69	3.16		155.50	2.60	18.59	62.67	999.00	2.11	999.00	1.98	0.00
20		123.10	11.58	2.48	61.53	999.00	127.70	10.13	3.89		173.80	2.59	25.21	60.68	999.00	0.57	999.00	0.21	0.00
20		123.10	8.78	3.12	60.14	999.00	118.20	8.04	3.78		130.20	3.21	13.71	60.19	999.00	-0.43	999.00	-0.28	0.00
	9 12 7		8.57	1.87	60.15	999.00	96.50	7.84	2.69		126.40	2.94	6.79	59.95			999.00	0.79	0.00
	9 12 8		9.88	2.11		999.00		9.27	2.53		133.20		13.09		999.00		999.00	0.46	0.00
	9 12 9		7.74	5.71		999.00		7.10	7.68		125.60	3.84	15.52		999.00		999.00	-1.09	0.00
	9 12 10		6.17	7.66		999.00		5.52	10.99		117.90	4.11	16.73		999.00		999.00	-1.17	0.00
	9 12 11		5.62	17.15	63.84		120.20	5.18	16.70		122.50	4.23	16.61		999.00		999.00	-0.87	0.00
	9 12 12		5.04	16.53			111.30	4.86	19.97		122.10	4.43	21.09		999.00		999.00	-1.20	0.00
	9 12 13	64.85	4.96	13.75		999.00	59.11	5.26	15.23	69.11	61.86	4.61	33.75		999.00		999.00	-0.69	0.00
	9 12 14	66.32	7.26	6.73		999.00	59.84	7.32	9.33	70.23	52.05	7.38	13.67		999.00		999.00	-1.27	0.00
	9 12 15	54.36	6.36	10.26		999.00	55.32	7.30	11.78	70.16	57.36	7.27	18.11		999.00		999.00	-1.30	0.00
20	9 12 16	78.50	11.26	5.69	69.65	999.00	76.10	11.10	7.20	70.22	79.30	8.35	14.02	72.65	999.00	-3.08	999.00	-1.84	0.00

20	9 12 17	89.20	11.86	5.39		999.00	86.70	10.92	7.65	71.05	91.70	8.23	13.79		999.00	-2.61	999.00	-1.59	0.00
20	9 12 18	86.50	11.04	4.24	999.00	999.00	82.20	9.72	6.73	999.00	85.80	6.53	15.12	73.37	999.00	-2.41	999.00	-1.55	0.00
20	9 12 19	94.90	12.77	3.81	70.92	999.00	85.40	12.08	4.63	70.91	96.80	6.55	13.98	72.57	999.00	-1.22	999.00	-0.93	0.00
20	9 12 20	112.00	14.11	3.71	70.93	999.00	104.90	12.45	4.39	70.92	111.10	5.16	13.73	71.47	999.00	-0.44	999.00	-0.40	0.00
20	9 12 21	134.70	13.96	3.85	72.95	999.00	124.20	12.27	3.45	71.71	128.10	3.66	14.47	71.35	999.00	4.05	999.00	0.84	0.00
20	9 12 22	151.90	16.00	2.23	77.17	999.00	138.40	13.02	2.22	73.33	135.00	3.45	12.57	71.23	999.00	6.53	999.00	1.64	0.00
20	9 12 23		18.87	1.58	77.78	999.00	154.70	16.60	1.89	74.09	159.10	3.84	18.58	71.50	999.00	6.39	999.00	2.98	0.00
20	9 12 24		20.64	3.02	77.08	999.00	176.00	15.84	3.68	75.15	183.70	3.65	19.19	71.88	999.00	3.96	999.00	1.90	0.00
20	9 13 1		22.22	2.96	74.10	999.00	180.10	18.04	3.98	73.42	185.90	6.47	15.95	72.60	999.00	1.21	999.00	0.48	0.00
20		189.50	20.07	3.57	74.03	999.00	185.40	17.19	4.23		192.80	7.51	14.56	73.95	999.00	-0.22	999.00	-0.22	0.00
20		197.10	18.71	3.06	73.90	999.00	192.00	16.21	3.44		198.70	5.85	15.80	74.02	999.00	0.10	999.00	0.02	0.03
20	9 13 4		18.69	2.50	73.46	999.00	193.60	15.95	3.20		201.90	5.62	15.15	73.22	999.00	0.07	999.00	-0.04	0.00
20		199.70	19.08	8.46	72.90	999.00	197.20	16.99	9.49		207.40	8.32	19.14	73.38	999.00	-0.79	999.00	-0.45	0.00
20	9 13 6	204.50	18.83	6.32	71.82	999.00	201.20	15.85	7.39		211.70	7.34	16.19	70.90	999.00	0.73	999.00	0.43	0.09
20			14.89	8.15	71.82	999.00	281.60	13.24	6.59	72.21		7.46	11.81	70.90	999.00	-1.33	999.00	-0.71	0.03
20	9 13 8	268.10	12.00	7.63	66.71	999.00	261.40	10.63	7.61		250.40	5.52	12.38	67.65	999.00	-0.99	999.00	-0.46	0.00
20			13.43	6.02	65.83	999.00	261.30	11.58	7.01		259.50	5.84	9.91	66.78	999.00	-0.82	999.00	-1.02	0.00
20	9 13 10	266.10	14.00	6.89	65.83	999.00	262.60	13.06	7.49	67.02	265.10	8.64	10.98	66.78	999.00	-2.44	999.00	-2.05	0.00
20	9 13 11		11.73	7.68	65.21	999.00	262.50	11.58	7.83	66.68	268.00	9.83	11.92	67.90	999.00	-3.10	999.00	-2.28	0.00
20	9 13 12		10.82	12.13	67.39	999.00	260.70	10.57	13.66	68.15	265.50	8.01	20.47	70.15	999.00	-2.88	999.00	-1.07	0.00
20	9 13 13	248.80	12.27	8.87	69.44	999.00	249.50	11.95	9.81	69.60	256.10	9.42	14.17	72.45	999.00	-3.11	999.00	-1.81	0.00
20	9 13 14		13.46	10.31	70.82	999.00	253.40	12.96	10.74	71.42	255.30	10.28	15.21	74.20	999.00	-3.28	999.00	-2.00	0.00
20	9 13 15	256.00	14.77	12.62	72.01	999.00	256.40	14.22	14.15	72.61	261.30	10.35	18.11	75.15	999.00	-3.22	999.00	-2.12	0.00
20	9 13 16	282.50	12.49	13.30	72.80	999.00	279.80	11.89	13.67	73.36	287.80	8.11	17.52	75.57	999.00	-2.32	999.00	-1.89	0.00
20	9 13 17	299.30	12.17	6.97	73.44	999.00	297.30	11.37	8.48	73.97	305.90	8.15	12.91	76.22	999.00	-2.90	999.00	-2.13	0.00
20	9 13 18	309.20	12.02	6.78	72.88	999.00	310.00	11.28	7.43	73.31	320.40	8.03	11.15	75.45	999.00	-2.81	999.00	-1.58	0.00
20	9 13 19	302.40	13.30	5.62	72.69	999.00	300.60	11.92	6.49	73.09	308.70	6.90	12.31	74.95	999.00	-1.78	999.00	-1.07	0.00
20	9 13 20	297.90	13.84	2.97	72.24	999.00	295.00	12.03	3.61	72.41	293.00	4.62	10.28	72.57	999.00	0.57	999.00	0.71	0.00
20	9 13 21	312.80	14.54	4.17	71.63	999.00	308.60	12.97	4.82	71.75	298.50	4.92	10.38	70.46	999.00	1.07	999.00	1.27	0.00
20	9 13 22	330.40	19.03	4.01	69.92	999.00	328.90	17.96	4.50	70.26	335.30	10.87	8.74	69.98	999.00	-0.56	999.00	-0.28	0.00
20	9 13 23	331.40	18.89	3.74	68.21	999.00	329.10	18.37	4.64	68.63	335.40	11.62	9.64	68.86	999.00	-0.76	999.00	-0.42	0.00
20	9 13 24		18.68	4.84	66.83	999.00	330.60	17.72	5.86		338.00	11.49	9.37	67.56	999.00	-0.90	999.00	-0.60	0.00
20	9 14 1		18.85	4.17	65.55	999.00	337.70	18.30	5.19	65.98	345.50	12.18	8.99	66.67	999.00	-1.18	999.00	-0.89	0.00
20	9 14 2	341.50	17.33	4.61	65.55	999.00	337.90	16.36	6.11	65.98	343.00	10.99	8.53	66.67	999.00	-1.19	999.00	-0.87	0.00
20	9 14 3		17.08	7.00	64.22	999.00	350.60	15.98	8.59	64.65	351.90	11.86	9.30	65.48	999.00	-1.31	999.00	-1.08	0.00
20	9 14 4	7.68	14.18	11.06	63.86	999.00	5.11	12.87	11.34	64.31	14.69	9.92	11.36	65.24	999.00	-1.32	999.00	-1.15	0.00
20		17.67	20.50	4.77	64.07	999.00	14.01	18.53	5.64	64.51	23.35	13.63	10.55	65.34	999.00	-1.31	999.00	-1.04	0.00
20	9 14 6	26.95	18.25	5.10	63.63	999.00	24.81	15.06	7.29	64.08	35.72	12.70	8.77	64.95	999.00	-1.40	999.00	-1.11	0.00
20	9 14 7	28.20	16.11	6.89	62.92	999.00	25.14	13.00	8.00	63.40	33.50	11.70	10.40	64.35	999.00	-1.40	999.00	-1.11	0.00
		42.77	15.22						7.57				11.67	63.98			999.00	-0.97	0.00
20				6.54	62.46	999.00	39.59	12.84		62.95	50.40	10.95			999.00	-1.45			
20	9 14 9	49.36	13.02	7.56	62.29	999.00	46.67	12.35	7.30	62.77	57.12	9.55	12.34	63.88	999.00	-1.74	999.00	-0.95	0.00
20	9 14 10	55.26	12.01	7.50	62.36	999.00	51.55	11.40	8.11	62.89	62.19	8.63	13.92	64.35	999.00	-2.18	999.00	-1.01	0.00
	9 14 11	41.26	10.61	10.74	62.75	999.00	38.20	9.15	10.64	63.37	43.21	8.81	13.16		999.00		999.00	-0.90	0.00
	9 14 12	38.23	9.64	9.86		999.00	35.76	8.73	11.00	63.26	41.80	9.05	15.12		999.00		999.00	-0.79	0.00
	9 14 13	48.27	10.03	9.05		999.00	46.11	9.37	8.67	63.11	55.09	9.47	12.17		999.00		999.00	-1.00	0.00
	9 14 14	53.20	10.05	9.94		999.00	49.11	9.12	10.79	63.13	55.37	8.59	11.97		999.00		999.00	-1.18	0.00
	9 14 15	35.90	10.09	11.88		999.00	32.22	9.54	13.58	63.25	42.03	8.58	18.56		999.00		999.00	-1.06	0.00
	9 14 16	49.15	8.00	9.33	62.66	999.00	45.40	7.29	9.45	63.32	49.13	7.02	13.00		999.00		999.00	-0.95	0.00
20	9 14 17	37.04	8.39	12.69	63.01	999.00	32.75	7.96	13.73	63.64	34.30	8.08	18.43	65.41	999.00		999.00	-0.91	0.00
20	9 14 18	36.92	7.97	11.04	63.23	999.00	36.99	6.97	11.46	63.82	46.28	7.29	18.89	65.35	999.00	-2.04	999.00	-0.95	0.00
20	9 14 19	33.25	9.28	11.60	63.20	999.00	28.85	8.45	12.86	63.72	30.88	8.00	15.28	64.88	999.00	-1.53	999.00	-0.86	0.00
20	9 14 20	29.05	12.43	5.89	62.89	999.00	26.19	10.58	6.42	63.36	35.40	9.65	10.11	64.18	999.00	-1.33	999.00	-1.10	0.00

	9 14 21	38.76	9.95	9.01		999.00	35.95	8.53	10.23	63.36	48.82	7.29	15.40		999.00		999.00	-0.69	0.00
20	9 14 22	56.00	8.79	7.81	62.62	999.00	52.87	8.72	8.35	63.01	67.52	5.10	12.67	63.22	999.00	-0.28	999.00	-0.23	0.00
20	9 14 23	58.22	6.94	9.83	62.53	999.00	52.69	7.02	9.84	62.93	71.50	4.09	10.41	62.95	999.00	-0.45	999.00	-0.13	0.00
20	9 14 24	73.90	8.92	8.11	62.53	999.00	71.10	8.99	7.94	62.93	87.20	4.21	14.50	62.95	999.00	-0.25	999.00	-0.20	0.00
20	9 15 1	80.90	7.41	17.48	61.81	999.00	75.10	7.07	18.82	62.17	184.10	3.11	14.83	61.02	999.00	2.59	999.00	2.83	0.00
20	9 15 2	69.81	7.56	8.77	61.45	999.00	65.01	7.40	11.22	61.76	81.70	2.30	50.78	59.33	999.00	0.71	999.00	0.58	0.00
20	9 15 3	72.20	7.77	11.35	61.23	999.00	70.70	6.86	12.43	61.59	174.40	2.60	11.97	60.40	999.00	1.90	999.00	1.95	0.00
20		153.50	7.33	8.71	60.25	999.00	158.90	5.55	5.32	60.24		2.08	36.59	56.94	999.00	3.78	999.00	3.11	0.00
20	9 15 5	196.20	6.34	3.13	58.17	999.00	199.40	7.04	4.23		273.00	2.37	23.28	54.79	999.00	3.89	999.00	3.38	0.00
20		183.40	10.14	1.24	58.11	999.00	185.60	8.88	1.31		191.70	2.18	15.47	54.64	999.00	3.73	999.00	3.32	0.00
20		185.10	11.43	2.06	57.15	999.00	194.40	10.38	3.81		207.20	3.34	11.58	52.97	999.00	4.40	999.00	3.37	0.00
20	9 15 8		10.10	0.95	57.60	999.00	202.20	10.19	2.15		225.50	2.94	7.31	52.28	999.00	5.12	999.00	3.31	0.00
20	9 15 9		11.94	2.00	57.49	999.00	196.90	12.00	1.64		210.00	3.78	13.11	53.01	999.00	3.81	999.00	2.77	0.00
	9 15 10		9.70	5.43	56.50	999.00	191.50	6.47	10.37		208.30	4.23	19.86	55.58	999.00	-1.68	999.00	-0.49	0.00
20																			
20	9 15 11		5.64	14.72	57.12	999.00	199.00	5.54	18.54		217.50	5.26	17.07	60.06	999.00	-3.19	999.00	-0.92	0.00
20	9 15 12		6.63	17.89	59.27	999.00	194.90	6.29	19.59		210.80	4.31	27.61	62.81	999.00	-3.86	999.00	-1.03	0.00
20			7.51	16.64	60.84	999.00	168.60	7.37	17.57		186.40	5.47	20.44	64.70	999.00	-3.97	999.00	-0.85	0.00
20	9 15 14		6.89	26.72	62.27	999.00	158.80	6.47	28.30		163.00	4.25	36.32	66.21	999.00	-3.99	999.00	-1.12	0.00
20	9 15 15		5.19	20.60	64.08	999.00	149.60	5.07	23.47		142.20	4.21	27.51	68.03	999.00	-3.92	999.00	-1.02	0.00
20	9 15 16		6.57	14.41	65.40	999.00	196.40	6.42	17.85	65.88	202.40	5.44	23.24	69.26	999.00	-3.69	999.00	-1.26	0.00
20	9 15 17		6.78	15.24	66.62	999.00	193.50	6.21	14.74	67.18	214.80	4.81	25.41	70.11	999.00	-3.19	999.00	-1.02	0.00
20	9 15 18	162.20	5.36	16.15	999.00	999.00	157.20	5.16	18.23		145.60	2.78	39.49	70.01	999.00	-2.48	999.00	-0.62	0.00
20	9 15 19	123.60	9.70	2.61	65.18	999.00	118.10	9.09	3.74	65.61	122.50	4.63	13.08	67.05	999.00	-1.35	999.00	-0.65	0.00
20	9 15 20	139.70	9.45	1.50	65.22	999.00	134.10	9.20	1.98	65.48	133.40	3.60	11.61	65.67	999.00	0.19	999.00	0.15	0.00
20	9 15 21	153.40	10.93	3.69	65.60	999.00	143.40	11.25	3.01	65.57	144.10	2.62	16.03	64.28	999.00	2.11	999.00	2.05	0.00
20	9 15 22	172.90	13.18	1.37	66.11	999.00	165.90	13.19	0.62	66.01	167.30	2.62	12.53	62.40	999.00	4.25	999.00	3.73	0.00
20	9 15 23		13.95	1.32	66.11	999.00	177.70	13.10	2.72	66.01	184.90	2.39	18.23	62.40	999.00	5.18	999.00	3.68	0.00
20	9 15 24	193.80	18.79	1.10	65.56	999.00	185.00	15.51	1.56		182.00	3.15	14.69	60.01	999.00	5.85	999.00	3.05	0.00
20	9 16 1		21.35	1.13	63.31	999.00	180.80	17.17	1.45		189.10	4.84	13.10	58.55	999.00	3.49	999.00	1.83	0.00
20	9 16 2		19.08	1.94	63.31	999.00		14.33	2.57		200.00	4.46	10.64	58.55	999.00	2.10	999.00	1.06	0.00
20	9 16 3		21.26	1.24	58.33	999.00	193.70	16.87	1.59		206.90	5.97	12.71	55.67	999.00	2.94	999.00	1.43	0.00
20	9 16 4		21.59	1.76	57.29	999.00	196.50	16.80	2.12		204.40	5.37	12.54	54.50	999.00	2.92	999.00	1.61	0.00
20	9 16 5		23.00	2.18	57.05	999.00	195.80	17.47	2.73		197.20	6.26	13.55	53.72	999.00	3.40	999.00	1.57	0.00
20	9 16 6	206.50	23.00	2.10	56.72	999.00	197.70	17.20	2.49		201.30	5.82	12.16	53.28	999.00	3.55	999.00	1.51	0.00
20	9 16 7		22.04	0.98	57.33	999.00	201.20	16.61	2.49		201.30	5.08	12.10	52.44	999.00	4.66	999.00	2.14	0.00
		211.90	20.32		57.33	999.00	201.20	15.58	2.09		202.10		12.30	52.44	999.00	4.80	999.00	1.96	0.00
20				1.61								5.39							
20	9 16 9		18.89	2.50	56.72	999.00	208.30	13.84	5.03		217.30	5.45	12.08	53.41	999.00	1.23	999.00	-0.01	0.00
20	9 16 10		13.23	6.86	55.05	999.00	204.80	10.84	8.09	54.64		6.47	14.04	56.07	999.00	-2.17	999.00	-1.30	0.00
20	9 16 11		11.30	6.02	56.97	999.00	210.20	10.64	7.12	57.43		8.17	14.35	59.93	999.00	-3.13	999.00	-1.80	0.00
20	9 16 12		13.67	5.07	60.82	999.00	216.30	13.37	4.75	61.31		10.16	10.99	63.85	999.00	-2.95	999.00	-1.74	0.00
20	9 16 13	219.80	12.21	7.44	64.06	999.00	219.60	11.90	8.40	64.59	229.40	9.26	13.81	67.45	999.00	-3.49	999.00	-1.93	0.00
20	9 16 14	222.30	13.17	5.39	66.98	999.00	220.50	12.86	6.55	67.51	226.70	9.49	11.81	70.36	999.00	-3.40	999.00	-1.90	0.00
	9 16 15		12.25	7.19	69.25	999.00		11.98	8.73		226.10	8.57	16.82		999.00	-3.25	999.00	-1.59	0.00
20	9 16 16	214.50	12.72	5.89	70.85	999.00	212.20	12.13	6.97	71.35	219.10	8.41	15.95	73.77	999.00	-2.96	999.00	-1.68	0.00
	9 16 17		16.80	4.64	72.07	999.00	180.70	16.35	5.63	72.56	190.30	9.43	16.55	74.78	999.00		999.00	-0.87	0.00
20	9 16 18	199.40	14.95	5.03	72.33	999.00	196.60	13.38	5.97	72.80	207.60	6.70	17.31	74.47	999.00	-2.00	999.00	-0.70	0.00
20	9 16 19	199.50	13.20	3.16	71.90	999.00	196.80	11.70	4.02	72.22	201.70	4.00	13.24	73.05	999.00	-0.56	999.00	0.10	0.00
	9 16 20		16.92	2.27		999.00		14.15	2.57		198.60	4.77	9.98		999.00		999.00	1.47	0.00
	9 16 21		19.81	1.22		999.00		15.78	2.04		205.70	4.53	10.78		999.00		999.00	2.36	0.00
	9 16 22		19.60	1.00		999.00	209.40	15.71	1.31		208.30	4.82	10.32		999.00		999.00	3.08	0.00
	9 16 23		21.02	1.11		999.00		17.45	1.74		200.50	5.28	9.51		999.00		999.00	4.62	0.00
	9 16 24		19.34	1.67		999.00		16.06	2.64		212.60	4.68	10.98		999.00		999.00	5.32	0.00
20	2 10 21	_ 10.00	10.01	1.07	, 1 . 00	222.00		10.00	2.01	00.01		1.00	10.00	33.00	222.00	,	222.00	0.02	0.00

	9 17 1		19.72	4.09		999.00	261.30	15.59	5.16		256.50	4.18	22.59		999.00		999.00	4.57	0.00
20	9 17 2	329.20	16.47	7.50	67.39	999.00	318.50	13.36	11.03	66.74	289.50	3.51	21.77	63.72	999.00	3.23	999.00	2.67	0.00
20	9 17 3	25.90	21.90	3.71	67.39	999.00	22.70	17.93	6.02	66.74	31.17	14.70	9.82	63.72	999.00	-1.42	999.00	-1.08	0.00
20	9 17 4	43.67	17.14	6.07	64.29	999.00	40.95	15.38	7.59	64.76	52.48	11.87	11.87	65.67	999.00	-1.34	999.00	-0.92	0.00
20	9 17 5	41.67	18.43	7.08	64.29	999.00	38.69	14.98	8.01	64.75	46.08	13.24	11.44	65.69	999.00	-1.48	999.00	-1.04	0.00
20	9 17 6	41.57	20.24	6.88	64.29	999.00	39.23	16.62	7.13	64.75	47.75	13.20	11.06	65.69	999.00	-1.60	999.00	-1.07	0.00
20	9 17 7	37.74	17.91	7.36	62.50	999.00	36.11	15.12	8.36	63.01	41.21	13.69	10.57	64.11	999.00	-1.64	999.00	-1.12	0.00
20	9 17 8	36.54	18.64	7.00	61.71	999.00	35.23	15.31	7.84	62.24	40.01	13.96	9.86	63.39	999.00	-1.65	999.00	-1.20	0.00
20	9 17 9	31.91	17.57	8.96	61.01	999.00	29.40	14.37	9.59	61.56	37.67	13.23	12.94	62.78	999.00	-1.80	999.00	-1.19	0.02
2.0	9 17 10	29.31	19.77	7.36	59.66	999.00	26.00	16.53	8.96	60.20	33.83	14.78	9.77	61.64	999.00		999.00	-1.19	0.00
	9 17 11	29.70	18.19	6.98	59.35	999.00	26.69	15.09	8.31	59.92	35.25	13.35	10.41	61.49	999.00		999.00	-1.15	0.00
	9 17 12	27.08	15.65	6.00	59.45	999.00	23.92	13.44	7.41	60.09	31.81	12.03	8.48	61.95	999.00		999.00	-1.10	0.00
	9 17 13	32.29	12.76	8.68	59.77	999.00	30.25	10.88	9.57	60.38	38.94	10.28	13.82	62.07	999.00		999.00	-1.11	0.00
	9 17 14	37.53	9.91	9.37	60.31	999.00	35.66	9.02	9.70	60.92	43.91	8.65	14.43	62.99	999.00		999.00	-1.17	0.00
	9 17 15	24.22	11.87	7.92	61.19	999.00	20.39	10.82	9.36	61.82	30.54	9.77	10.61	64.12	999.00		999.00	-0.87	0.00
	9 17 16	18.91	15.74	6.91	62.55	999.00	16.51	13.94	7.98	63.22	28.85	11.75	13.19	65.73	999.00		999.00	-0.96	0.00
	9 17 17				63.37		24.38		9.15	64.02	29.97	10.95	11.63	66.33	999.00		999.00	-0.82	0.00
		27.86	13.64	9.44		999.00		11.61											
	9 17 18	30.03	15.28	6.96	64.05	999.00	26.77	12.60	7.66	64.75	34.64	11.78	11.65	66.76	999.00		999.00	-0.73	0.00
	9 17 19	30.99	14.46	7.08	64.05	999.00	29.17	11.98	8.33	64.75	36.49	10.81	9.42	66.76	999.00		999.00	-0.81	0.00
	9 17 20	35.15	13.60	7.24	63.66	999.00	33.55	11.39	8.79	64.17	45.39	9.43	12.67	65.08	999.00		999.00	-0.85	0.00
	9 17 21	32.63	15.79	6.25	63.15	999.00	30.68	12.36	8.32	63.62	35.87	11.96	10.28	64.30	999.00		999.00	-1.05	0.00
20		30.07	19.75	6.05	61.47	999.00	26.94	16.37	7.91	61.98	35.34	14.53	10.00	62.97	999.00		999.00	-1.16	0.00
	9 17 23	26.68	27.64	3.27	58.29	999.00	24.07	23.37	5.78	58.81	35.25	19.37	9.73	59.98	999.00		999.00	-1.23	0.00
	9 17 24	19.82	27.41	5.19	56.82	999.00	16.59	23.47	7.32	57.34	25.37	18.33	10.85	58.54	999.00		999.00	-1.33	0.00
20	9 18 1	25.80	23.30	7.27	56.39	999.00	24.00	19.38	8.73	56.90	31.76	16.40	10.77	58.14	999.00		999.00	-1.27	0.00
20	9 18 2	28.47	24.70	5.80	56.00	999.00	25.23	20.29	7.60	56.52	35.24	16.98	10.52	57.73	999.00		999.00	-1.30	0.00
20	9 18 3	21.37	26.65	6.05	55.56	999.00	17.62	22.69	7.31	56.08	24.06	17.77	10.96	57.31	999.00	-1.73	999.00	-1.27	0.00
20	9 18 4	17.15	22.80	5.64	54.91	999.00	14.17	20.59	7.24	55.42	24.34	15.43	9.66	56.65	999.00	-1.74	999.00	-1.28	0.00
20	9 18 5	26.04	21.32	6.43	53.70	999.00	23.67	17.58	8.08	54.19	33.37	14.52	11.13	55.40	999.00	-1.59	999.00	-1.27	0.00
20	9 18 6	20.02	24.29	4.37	53.14	999.00	16.73	21.24	6.09	53.63	26.58	16.45	9.69	54.69	999.00	-1.53	999.00	-1.25	0.00
20	9 18 7	20.72	24.79	4.13	52.78	999.00	17.81	21.50	6.16	53.28	28.77	16.95	10.32	54.37	999.00	-1.69	999.00	-1.29	0.00
20	9 18 8	19.38	20.86	8.48	52.18	999.00	15.87	18.08	9.81	52.67	20.97	14.88	12.98	53.86	999.00	-1.93	999.00	-1.19	0.00
20	9 18 9	18.38	21.96	6.78	51.77	999.00	15.02	19.50	7.87	52.30	22.45	15.63	11.02	53.94	999.00	-2.25	999.00	-1.23	0.00
20	9 18 10	20.28	20.75	6.44	51.82	999.00	17.09	17.86	7.86	52.37	23.28	15.10	10.73	54.32	999.00	-2.70	999.00	-0.99	0.00
20	9 18 11	15.18	16.35	9.47	52.46	999.00	12.55	14.84	10.70	53.03	18.86	12.36	12.94	55.52	999.00	-3.19	999.00	-0.96	0.00
20	9 18 12	6.36	16.24	13.94	53.05	999.00	4.14	14.90	13.31	53.64	6.63	12.56	15.79	56.35	999.00		999.00	-1.13	0.00
	9 18 13	10.48	18.32	11.26	54.77	999.00	6.58	16.87	11.87	55.43	11.96	13.71	15.96	58.19	999.00		999.00	-1.12	0.00
	9 18 14	22.37	17.30	7.55	54.77	999.00	20.20	15.36	9.35	55.43	28.47	13.59	11.73	58.19	999.00		999.00	-1.07	0.00
	9 18 15	21.59	20.35	6.78	56.23	999.00	19.18	17.84	8.88	56.86	25.85	15.41	12.63	59.48	999.00		999.00	-1.30	0.00
	9 18 16	22.82	20.24	7.38	56.92	999.00	19.62	17.41	9.00	57.58	32.09	14.68	12.62	60.25	999.00		999.00	-1.43	0.00
	9 18 17	21.78	18.37	11.39	56.99	999.00	19.03	16.01	10.87	57.64	24.95	13.84	12.54	60.14	999.00		999.00	-1.13	0.00
20	9 18 18	21.42	18.87	6.09	56.94	999.00	18.28	16.21	7.93	57.60	29.69	13.61	11.06	59.92	999.00		999.00	-0.93	0.00
	9 18 19	27.72	19.18	10.21		999.00	25.90	16.28	12.10	57.24	32.01	14.40	13.91	59.05	999.00		999.00	-0.92	0.00
	9 18 20	30.93	19.69	8.96		999.00	28.40	16.29	9.79	56.14	35.76	14.57	12.75		999.00	-2.27 -1.52		-1.17	0.00
	9 18 21	28.05	22.35	6.60		999.00	25.19	18.49	7.73	54.81	33.13	16.10	9.75		999.00	-1.53		-1.23	0.00
	9 18 22	31.52	22.57	7.26		999.00	29.28	18.44	9.62	53.61	36.47	16.22	10.41		999.00	-1.54		-1.23	0.00
	9 18 23	36.26	16.56	10.33		999.00	32.18	13.85	10.52	52.97	35.45	13.78	11.71		999.00	-1.36		-1.17	0.00
	9 18 24	32.83	16.58	8.82		999.00	30.26	13.65	9.89	52.52	36.33	12.81	12.10		999.00	-1.35		-1.12	0.00
	9 19 1	32.14	15.78	9.39		999.00	29.23	13.45	10.24	52.31	38.71	12.02	13.27		999.00	-1.40		-1.20	0.00
	9 19 2	44.45	14.25	9.81		999.00	41.05	12.46	10.42	52.37	47.32	11.19	16.24		999.00	-1.29		-0.91	0.00
	9 19 3	49.29	13.62	9.04		999.00	45.29	13.18	9.02	52.28	55.74	9.92	13.01		999.00	-1.06		-0.84	0.00
20	9 19 4	44.31	13.57	9.49	51.88	999.00	40.38	11.76	9.81	52.32	46.03	9.87	13.54	52.92	999.00	-1.06	999.00	-1.02	0.00

20	9 19 5	40.78	13.96	9.61			36.92	11.92	9.27	52.66	43.53	11.17	12.52		999.00		999.00	-1.07	0.00
20	9 19 6	41.29	15.13	9.29	52.44	999.00	38.73	12.76	9.50	52.89	42.44	10.98	12.78	53.66	999.00	-1.29	999.00	-1.02	0.00
20	9 19 7	50.72	12.64	8.71	52.40	999.00	47.10	11.71	9.05	52.83	57.10	8.86	11.28	53.51	999.00	-0.99	999.00	-0.71	0.00
20	9 19 8	54.48	13.05	7.82	52.60	999.00	50.74	12.60	7.68	53.02	60.03	8.99	11.45	53.49	999.00	-1.01	999.00	-0.63	0.00
20	9 19 9	52.80	10.85	10.30	53.01	999.00	49.89	10.53	9.86	53.51	65.89	8.25	13.12	54.71	999.00	-2.06	999.00	-0.72	0.00
20	9 19 10		4.16	28.19	53.29	999.00	131.40	4.02	23.75		144.60	3.13	31.08	55.27	999.00	-2.88	999.00	-1.01	0.00
20			6.17	11.83	54.08	999.00	111.50	6.36	11.27		113.00	5.16	18.21	57.69	999.00	-3.43	999.00	-1.37	0.00
20			6.27	18.36	54.47	999.00	103.10	6.17	20.18	55.01	109.10	4.62	24.25	58.01	999.00	-3.63	999.00	-1.45	0.00
		59.99	7.79	16.50	54.96	999.00	56.87	7.86	17.10	55.60	55.91	7.10	21.00	58.45	999.00	-3.46	999.00	-1.14	0.00
20																			
	9 19 14	42.04	9.54	10.12	55.58	999.00	38.63	8.50	10.11	56.31	46.25	8.75	16.86	58.97	999.00	-3.45	999.00	-0.78	0.00
	9 19 15	32.68	8.35	12.63	55.90	999.00	24.88	8.01	11.62	56.62	23.68	8.05	12.43	59.40	999.00	-3.41	999.00	-0.84	0.00
20		48.50	9.59	8.47	56.09	999.00	44.05	9.28	8.61	56.85	55.43	8.84	13.25	59.46	999.00	-3.17	999.00	-1.30	0.00
	9 19 17	51.06	8.79	11.38	56.43	999.00	47.07	8.51	11.37	57.15	52.53	8.53	18.38	59.58	999.00	-3.19	999.00	-1.18	0.00
	9 19 18	70.00	8.96	10.47	56.90	999.00	64.78	8.94	12.83	57.56	72.30	7.16	17.91	59.91	999.00	-2.86	999.00	-1.28	0.00
20	9 19 19	87.80	8.03	9.24	57.10	999.00	83.60	7.91	9.97	57.69	96.30	4.42	17.61	59.46	999.00	-1.85	999.00	-0.62	0.00
20		86.20	8.29	7.26	56.76	999.00	80.80	8.16	7.45	57.25	95.70	3.77	12.89	57.77	999.00	-0.37	999.00	-0.08	0.00
20	9 19 21	108.00	7.07	6.96	56.73	999.00	104.80	6.65	7.10	57.11	129.00	3.07	13.74	56.88	999.00	0.02	999.00	0.30	0.00
20	9 19 22	96.80	8.41	5.68	56.75	999.00	93.50	7.99	5.36	57.04	153.10	1.92	9.77	54.90	999.00	2.04	999.00	1.81	0.00
20	9 19 23	92.20	10.08	4.47	57.08	999.00	87.30	9.72	4.27	57.35	98.60	2.21	31.32	55.03	999.00	1.63	999.00	1.32	0.00
20	9 19 24	101.50	10.58	6.21	57.48	999.00	96.00	10.34	5.97	57.87	109.10	3.87	12.48	57.05	999.00	0.16	999.00	0.34	0.00
20	9 20 1	122.20	10.03	8.37	57.31	999.00	130.40	9.40	8.01	57.38	190.40	3.12	10.06	55.13	999.00	3.64	999.00	3.02	0.00
20	9 20 2	138.50	11.70	1.32	55.23	999.00	141.40	10.51	1.72	54.95	215.50	1.79	20.37	51.67	999.00	3.53	999.00	2.88	0.00
20		129.70	13.24	1.61	53.92	999.00	132.00	11.37	1.78		161.70	1.41	25.46	50.37	999.00	3.63	999.00	2.56	0.00
20		125.30	15.25	1.65	53.84	999.00	128.10	13.19	2.01		173.30	2.25	12.98	50.26	999.00	4.00	999.00	3.00	0.00
20		134.60	14.54	0.80	54.06	999.00	136.40	12.23	1.42		171.50	1.95	13.28	49.34		5.10	999.00	4.14	0.00
20		129.30	12.62	1.59	54.02	999.00	135.00	10.65	2.32		187.90	1.82	11.75	48.52	999.00	5.32	999.00	3.55	0.00
20		127.70	10.38	1.02	54.06	999.00	131.90	8.33	1.29		184.70	1.81	12.35	48.91	999.00	4.87	999.00	3.44	0.00
20		126.70	10.96	0.52	53.90	999.00	124.70	8.24	0.69		150.40	1.67	20.37	48.83	999.00	4.68	999.00	2.91	0.00
20	9 20 9		9.75	3.48	53.68	999.00	125.40	7.42	4.84		172.00	3.26	13.24	52.05	999.00	0.19	999.00	0.58	0.00
			9.75										19.86				999.00	-1.00	0.00
20				5.69	54.08	999.00	102.00	7.68	9.06		117.10	4.03		55.62	999.00	-2.41			
	9 20 11	95.20	9.09	6.66	55.84	999.00	91.60	8.42	8.15		106.50	5.45	21.22	58.99	999.00	-3.22	999.00	-1.58	0.00
20		80.10	15.83	6.58	57.78	999.00	77.00	15.32	8.49	58.39	78.90	10.19	14.13	60.79	999.00	-2.92	999.00	-1.84	0.00
	9 20 13	84.50	14.39	10.07	58.25	999.00	83.20	13.60	11.53	58.95	86.60	9.00	19.19	61.55	999.00	-3.43	999.00	-2.12	0.00
	9 20 14	89.00	15.70	9.25	58.80	999.00	87.80	14.60	10.88	59.53	91.50	9.47	17.02	62.25	999.00	-3.41	999.00	-2.26	0.00
	9 20 15	74.20	19.25	5.32	59.15	999.00	71.20	19.08	5.99	59.85	80.00	11.67	15.00	62.60	999.00	-3.34	999.00	-2.24	0.00
	9 20 16	74.80	17.98	5.24	59.32	999.00	72.30	17.51	6.58	59.94	78.80	11.29	14.33	62.61	999.00	-3.17		-2.08	0.00
	9 20 17	71.50	16.83	6.16	60.00	999.00	68.03	16.41	8.07	60.57	73.20	10.96	14.80	62.93	999.00	-2.78	999.00	-1.83	0.00
	9 20 18	75.30	17.15	4.85	60.57	999.00	73.70	16.83	5.73	61.08	81.70	9.78	15.15	63.26	999.00	-2.70	999.00	-1.40	0.00
20	9 20 19	70.60	18.55	4.18	60.80	999.00	68.84	18.39	4.82	61.27	71.50	10.60	12.95	62.93	999.00	-1.76	999.00	-0.77	0.00
20	9 20 20	75.80	17.73	4.78	60.55	999.00	73.30	17.31	4.93	60.98	78.80	7.80	14.75	61.49	999.00	-0.39	999.00	-0.11	0.00
20	9 20 21	77.60	17.31	5.70	60.52	999.00	75.00	16.49	5.84	60.92	81.50	7.76	15.12	60.85	999.00	-0.28	999.00	0.03	0.00
20	9 20 22	82.70	18.48	4.64	60.76	999.00	79.20	17.50	4.87	61.13	88.00	7.12	16.21	60.87	999.00	-0.13	999.00	0.17	0.00
20	9 20 23	90.60	16.70	5.38	60.92	999.00	86.80	15.86	6.24	61.27	97.60	6.29	16.26	61.01	999.00	-0.09	999.00	0.17	0.00
	9 20 24	99.90	16.36	4.49	61.25	999.00	95.20	15.75	4.83		101.10	6.03	14.98	61.28	999.00	0.04	999.00	0.26	0.00
	9 21 1		15.20	3.13		999.00		13.65	4.57		121.40	5.25	14.49		999.00		999.00	0.29	0.00
	9 21 2		13.67	1.69		999.00		11.15	2.67		150.30	2.57	18.45		999.00		999.00	1.76	0.00
	9 21 3		17.02	1.26		999.00		13.13	1.23		133.50	4.55	11.88		999.00		999.00	2.22	0.00
	9 21 4		14.83	0.65		999.00		13.34	2.58		134.10	3.90	11.93		999.00		999.00	1.27	0.00
	9 21 5		17.42	1.08		999.00		14.57	1.33		159.10	1.42	25.44		999.00		999.00	3.38	0.00
	9 21 6		18.30	2.10		999.00		14.61	3.48		141.70	2.71	23.56		999.00		999.00	1.16	0.00
	9 21 7		22.42	0.83		999.00		16.99	1.27		172.10	3.60	19.93		999.00		999.00	2.98	0.00
∠∪	9 21 8	104.60	21.59	0.85	55.3/	999.00	T00.30	16.30	1.03	J∠.5U	179.70	3.28	14.54	49.2/	999.00	5.62	999.00	3.36	0.00

00 0 01 0 166 20	10.00	0 50	F2 01	000 00	161 60	14 50	2 60	F0 00	170 00	4 00	10.00	E1 01	000 00	0 01	000 00	0 40	0 00
20 9 21 9 166.30	18.82	2.59		999.00		14.50	3.68		179.20	4.83	18.22		999.00		999.00	0.48	0.00
20 9 21 10 177.70	13.43	7.51	52.73	999.00 999.00		11.59	7.87		185.10	6.43	19.07	54.51	999.00	-2.72	999.00	-0.65	0.00
20 9 21 11 178.60	8.81	9.72	55.45			8.53	12.37		187.40	5.35	24.32	58.77	999.00	-3.76	999.00	-0.74	0.00
20 9 21 12 176.80 20 9 21 13 148.70	9.83	7.87 14.74	59.01 62.10	999.00 999.00	176.30 146.80	9.67 8.04	8.83 15.91		189.70 150.30	6.66 5.17	16.86 25.73	62.60 65.99	999.00 999.00	-3.75 -3.93	999.00 999.00	-0.69	0.00
																-1.20	
20 9 21 14 92.80 20 9 21 15 76.20	10.74 14.98	6.86	63.69	999.00 999.00	89.00	10.67	8.28 4.94	64.31	92.70 79.40	7.83	18.98	67.23	999.00	-3.40 -3.32	999.00	-1.97	0.00
		4.56	63.07 62.40	999.00	72.00 72.20	15.27 16.38	4.29	63.67 62.98	81.60	10.68 10.12	13.12 13.61	66.31 65.61	999.00 999.00	-3.32 -3.05	999.00 999.00	-2.13 -2.14	0.00
20 9 21 16 76.00 20 9 21 17 78.20	16.11 15.63	2.97 2.77	63.21	999.00	73.80	15.57	3.71	63.74	84.10	9.27	13.73	66.03	999.00	-2.72	999.00	-1.77	0.00
20 9 21 17 78.20	16.14	3.41	63.77	999.00	83.70	14.66	5.99	64.34	90.50	7.71	16.14	66.36	999.00	-2.72	999.00	-1.19	0.00
20 9 21 19 94.60	17.38	4.22	63.24	999.00	90.60	16.45	5.57		103.00	7.66	16.28	65.10	999.00	-1.38	999.00	-0.43	0.00
20 9 21 20 105.60	16.27	3.16	62.76	999.00	102.60	15.73	3.91		111.10	7.10	13.57	63.33	999.00	-0.22	999.00	0.45	0.00
20 9 21 21 104.70	15.59	3.47	62.46		102.00	14.66	4.54		110.60	5.97	13.39	62.52	999.00	0.22	999.00	0.03	0.00
20 9 21 22 119.70	15.29	2.83	62.96		115.70	13.36	2.96		125.70	4.68	13.51	62.50	999.00	0.88	999.00	1.00	0.00
20 9 21 23 150.80	15.62	2.39	62.76	999.00		13.80	2.70		143.80	3.60	15.63	61.22	999.00	1.89	999.00	1.39	0.00
20 9 21 24 166.70	17.98	1.91	62.70	999.00		14.44	1.52		172.90	2.42	19.21	58.31	999.00	5.36	999.00	2.67	0.00
20 9 22 1 173.40	16.23	0.72	62.72	999.00		16.51	1.06		173.00	2.19	15.81	56.30	999.00	6.93	999.00	5.87	0.00
20 9 22 2 178.90	16.48	0.73	62.48	999.00		15.36	0.84		191.80	2.94	10.71	55.05	999.00	7.67	999.00	6.86	0.00
20 9 22 3 187.50	17.17	1.24	61.87	999.00		16.96	1.14		192.40	3.60	9.56	54.19	999.00	7.69	999.00	5.59	0.00
20 9 22 4 197.70	18.74	0.73	59.92	999.00		14.07	1.51		190.90	2.92	9.29	52.97	999.00	7.87	999.00	3.68	0.00
20 9 22 5 206.70	18.97	1.64	59.69	999.00		17.30	1.37		195.60	4.06	8.86	51.35	999.00	999.00	999.00	5.95	0.00
20 9 22 6 225.30	16.89	2.91	999.00	999.00		17.06	3.07		203.10	4.51	9.44	50.74	999.00	999.00	999.00	7.78	0.00
20 9 22 7 242.10	18.33		999.00		235.50	16.77	0.88		212.20	4.56	10.15	50.15	999.00	999.00	999.00	7.97	0.00
20 9 22 8 241.50	19.50		999.00	999.00	234.80	16.93	1.01	57.04	200.70	5.11	10.01	49.27	999.00	999.00	999.00	7.70	0.00
20 9 22 9 239.40	17.96	1.52	999.00	999.00	232.20	16.88	2.31		214.20	5.41	10.41	49.27	999.00	7.97	999.00	6.72	0.00
20 9 22 10 234.60	14.77	2.69	57.83	999.00	226.30	11.66	5.06	56.24	223.10	6.08	14.24	54.22	999.00	-0.53	999.00	-0.91	0.00
20 9 22 11 236.80	10.02	5.52	56.83	999.00	229.90	8.81	5.90	56.80	235.30	6.87	9.83	59.29	999.00	-2.87	999.00	-1.61	0.00
20 9 22 12 238.40	7.61	7.38	60.16	999.00	236.80	7.43	8.35		238.60	6.23	16.95	63.37	999.00	-3.37	999.00	-1.60	0.00
20 9 22 13 241.00	7.54	9.42	64.11	999.00	234.20	7.42	7.19	64.54	230.70	5.90	14.07	67.51	999.00	-3.57	999.00	-1.84	0.00
20 9 22 14 273.70	6.63	51.87	67.07	999.00	277.20	6.20	50.81	67.62	288.00	4.72	66.73	70.61	999.00	-3.74	999.00	-1.16	0.00
20 9 22 15 54.63	5.55	30.75	66.74	999.00	55.86	6.26	24.77	67.11	56.24	5.99	28.08	69.86	999.00	-3.21	999.00	-0.85	0.00
20 9 22 16 83.10	7.57	6.95	65.97	999.00	86.30	7.73	9.68	66.10	99.70	5.86	18.99	68.19	999.00	-2.81	999.00	-1.60	0.00
20 9 22 17 104.10	6.13	3.65	67.69	999.00	102.50	6.23	6.75	67.99	105.00	4.49	12.34	70.02	999.00	-1.63	999.00	-0.94	0.00
20 9 22 18 129.80	5.25	4.36	68.42	999.00	115.20	6.26	5.65	68.62	116.00	3.74	12.67	70.27	999.00	-1.34	999.00	0.07	0.00
20 9 22 19 157.00	6.62	2.89	69.26	999.00	142.60	7.81	2.69		127.30	2.60	11.58	68.97	999.00	1.25	999.00	1.90	0.00
20 9 22 20 172.60	8.70	1.15	69.95	999.00	159.40	9.86	0.95	69.84	173.50	2.41	13.71	66.78	999.00	4.85	999.00	4.09	0.00
20 9 22 21 181.80	11.66	4.22	69.88	999.00		11.96	3.56		177.20	2.98	12.74	63.63	999.00	7.08	999.00	6.36	0.00
20 9 22 22 209.10	11.37	3.87	69.89	999.00	201.70	11.66	4.45		180.30	3.38	5.84	62.37	999.00	7.76	999.00	7.23	0.00
20 9 22 23 225.20	14.01	1.05	69.72	999.00		16.60	1.30		195.60	5.03	7.51	61.95	999.00	7.99	999.00	7.09	0.00
20 9 22 24 232.40	15.51	1.11	69.29	999.00	231.90	18.54	1.25		210.70	4.26	10.20	60.57	999.00	999.00	999.00	7.97	0.00
20 9 23 1 248.20	16.80	2.00	999.00	999.00	240.40	16.80	1.29		212.80	5.23	9.93	59.75	999.00	999.00	999.00	7.97	0.00
20 9 23 2 260.50	20.28	3.18	999.00	999.00	244.20	18.01	3.42		222.70	5.62	9.09	58.73	999.00	999.00	999.00	6.67	0.00
20 9 23 3 289.70	17.15	3.56	66.30	999.00		15.82	4.69		238.80	5.55	6.78	58.43	999.00		999.00	5.74	0.00
20 9 23 4 289.40	11.62			999.00		12.68	4.07		218.60	4.28			999.00	7.99		5.87	0.00
20 9 23 5 282.40	10.81	1.97		999.00		10.92	3.29		219.30		10.79			999.00		7.59	0.00
20 9 23 6 278.90	13.86			999.00		12.11	5.34		221.30	4.18	9.39			999.00		7.93	0.00
20 9 23 7 283.40	14.19			999.00		13.13	3.14		216.50		10.31			999.00		6.57	0.00
20 9 23 8 269.30	14.61			999.00		15.73	3.86		223.90	5.25	9.23			999.00		6.63	0.00
20 9 23 9 272.90	17.34	2.84		999.00		14.19	3.54		214.70	4.05	13.54		999.00		999.00	4.63	0.00
20 9 23 10 258.40	10.39	7.36		999.00		9.07	9.31		219.60	6.16	10.75		999.00		999.00	-0.93	0.00
20 9 23 11 241.00		13.41		999.00		5.29	11.08		217.70	5.06	14.80 18.04		999.00		999.00 999.00	-1.13	0.00
20 9 23 12 230.50	5.25	12.39	80.08	999.00	229.80	4.94	13.79	65.50	220.20	4.51	10.04	00.52	999.00	-3.52	999 . 00	-1.11	0.00

00 0 00 10 40 44	2 26 16	0 00 60 74	000 00 44	- 0 70	1 - 41	70 10 07 00	4 0 4	12.06	72 52 000 00	2 20	000 00	0.60	0 00
20 9 23 13 42.44			999.00 44.		15.41	70.13 37.39	4.94	13.86	73.53 999.00		999.00	0.69	0.00
20 9 23 14 63.40		2.52 70.96	999.00 73.		27.72	71.11 82.40	5.92	15.10	72.80 999.00	-1.33	999.00	-0.30	0.00
20 9 23 15 61.39		1.92 71.93	999.00 66.		8.59	72.00 86.70	5.57	10.41	73.60 999.00		999.00	-0.55	0.00
20 9 23 16 22.51 20 9 23 17 236.60		3.79 73.03 6.76 74.25	999.00 49. 999.00 206.		16.67 30.83	72.97 74.00 74.46 124.00	5.63	17.34 21.75	74.45 999.00 75.70 999.00	-1.16 -1.37	999.00 999.00	-0.24 0.29	0.00
							3.10						
20 9 23 18 255.60 20 9 23 19 267.60		4.43 74.25	999.00 254. 999.00 263.		5.65 3.96	74.46 261.10 76.54 247.20	6.42	8.76 9.93	75.70 999.00	-1.07		-0.38	0.00
		2.78 76.28 7.03 75.49	999.00 263. 999.00 236.		7.62	75.35 205.90	4.12	10.78	76.63 999.00 73.60 999.00	0.10 2.35	999.00 999.00	0.43 2.23	0.00
20 9 23 20 246.70 20 9 23 21 236.10		2.70 72.47	999.00 236.		3.98	72.54 219.70	3.91 4.63	10.76	70.80 999.00	1.46	999.00	1.28	0.00
			999.00 234.		2.72	71.12 215.90	4.03	9.42	68.34 999.00		999.00	3.87	0.00
20 9 23 22 246.10 20 9 23 23 254.60		2.00 72.19 1.63 71.93	999.00 237.		1.86	70.42 223.60	5.69	6.92	66.62 999.00	4.97 5.44	999.00	3.55	0.00
20 9 23 24 257.60		2.58 70.53	999.00 244.		3.16	68.69 235.20	6.37	7.63	65.55 999.00	4.21	999.00	2.16	0.00
20 9 24 1 262.10		3.63 68.25	999.00 251.		4.42	66.92 242.60	6.59	8.10	65.09 999.00	2.76	999.00	1.55	0.00
20 9 24 2 270.40		1.99 67.92	999.00 256.		3.58	65.89 238.40	6.17	6.86	64.07 999.00	3.46	999.00	1.57	0.00
20 9 24 3 288.20		2.34 69.27	999.00 278.		2.80	66.40 244.30	3.77	7.07	63.28 999.00	6.90	999.00	4.95	0.00
20 9 24 4 279.90		1.24 68.97	999.00 252.		5.70	65.80 199.00	3.77	9.07	61.91 999.00	7.53	999.00	4.03	0.00
20 9 24 5 245.80		6.57 66.33	999.00 232.		5.18	63.74 219.90	5.26	12.13	60.55 999.00	3.27	999.00	1.57	0.00
20 9 24 6 255.10		1.97 63.36	999.00 243.		4.45	61.36 222.20	5.20	10.58	59.79 999.00	4.04	999.00	1.45	0.00
20 9 24 7 248.70		4.23 62.57	999.00 237.		3.67	60.65 225.40	7.03	8.41	58.85 999.00	2.87		1.03	0.00
20 9 24 8 250.80		4.31 60.56	999.00 240.		4.67	59.71 216.00	4.94	11.20	58.71 999.00	1.71	999.00	1.12	0.00
20 9 24 9 274.60		4.59 61.72	999.00 262.		6.92	60.27 251.30	3.82	15.92	59.06 999.00	2.81	999.00	0.74	0.00
20 9 24 10 242.70		2.65 62.22	999.00 234.		10.38	61.36 228.60	6.93	8.93	62.55 999.00	-2.48	999.00	-1.14	0.00
20 9 24 11 237.50		8.68 63.92	999.00 235.		9.70	64.25 241.90	6.23	16.84	66.88 999.00	-3.30	999.00	-1.61	0.00
20 9 24 12 242.40		4.46 66.64	999.00 233.		16.25	67.11 226.90	4.22	19.56	69.68 999.00	-2.93	999.00	-1.31	0.00
20 9 24 13 290.90		8.54 68.90	999.00 309.		35.75	69.36 1.48	4.06	55.31	72.25 999.00	-3.04	999.00	-0.18	0.00
20 9 24 14 229.50		4.83 70.74	999.00 232.		15.08	71.05 233.40	5.97	24.80	74.55 999.00	-3.97		-1.89	0.00
20 9 24 15 204.70		5.11 72.17	999.00 201.		23.86	72.67 218.30	5.28	86.10	75.93 999.00	-3.28	999.00	-0.81	0.00
20 9 24 16 222.90		8.07 73.22	999.00 221.		9.31	73.70 231.10	8.16	17.14	76.70 999.00	-3.60	999.00	-2.09	0.00
20 9 24 17 174.20	5.95 68	8.05 73.69	999.00 142.	10 5.76	83.40	74.23 68.81	3.59	50.82	76.78 999.00	-2.66	999.00	-0.42	0.00
20 9 24 18 106.10	5.29 15	5.53 72.43	999.00 88.	70 7.33	9.32	71.92 89.90	5.48	13.26	72.70 999.00	0.61	999.00	0.44	0.00
20 9 24 19 162.30	3.53 17	7.58 72.91	999.00 119.	10 4.94	11.98	72.29 92.10	3.52	13.33	70.82 999.00	3.41	999.00	3.70	0.00
20 9 24 20 184.40	5.05	6.31 73.76	999.00 154.	30 4.24	8.34	73.61 110.50	2.25	12.95	68.53 999.00	5.85	999.00	5.02	0.00
20 9 24 21 194.50	12.65 1	1.54 73.11	999.00 187.	9.68	1.71	72.90 168.70	1.38	12.87	68.28 999.00	4.21	999.00	2.80	0.00
20 9 24 22 211.80	13.44 1	1.18 73.65	999.00 206.	70 12.43	3.59	73.16 194.20	2.51	9.71	68.44 999.00	5.77	999.00	4.83	0.00
20 9 24 23 201.60	14.51 2	2.32 72.67	999.00 191.	14.42	4.36	72.05 174.30	3.10	11.06	65.88 999.00	7.08	999.00	5.85	0.00
20 9 24 24 207.80	16.61 1	1.45 71.78	999.00 199.	30 16.14	2.81	70.66 197.90	3.38	8.14	63.86 999.00	7.99	999.00	6.21	0.00
20 9 25 1 203.60	19.31 2	2.48 69.78	999.00 193.	30 16.39	2.23	67.75 203.80	4.37	11.40	62.57 999.00	7.76	999.00	3.65	0.00
20 9 25 2 196.80		0.89 69.00	999.00 196.		1.22	65.38 200.40	3.40	9.51	61.33 999.00	7.51	999.00	3.83	0.00
20 9 25 3 200.20	20.90	0.86 68.34	999.00 198.	50 14.75	1.68	65.18 210.10	2.96	7.44	60.61 999.00	7.99	999.00	5.03	0.00
20 9 25 4 208.80	16.33 1	1.88 68.25	999.00 204.		0.79	66.21 212.10	2.99	8.32	60.20 999.00	999.00	999.00	5.77	0.00
20 9 25 5 223.10		2.07 66.50	999.00 217.		1.59	64.76 203.30	4.10	8.18	59.43 999.00	6.91	999.00	4.96	0.00
20 9 25 6 256.00		2.00 66.10	999.00 233.		1.82	64.10 217.70	2.88	13.07	58.24 999.00	7.99	999.00	5.97	0.00
20 9 25 7 202.10			999.00 191.		2.62	62.37 165.50	3.31	17.51	56.98 999.00		999.00	4.22	0.00
20 9 25 8 206.00			999.00 195.		2.49	62.80 177.90			56.55 999.00		999.00	6.77	0.00
20 9 25 9 198.30			999.00 196.		1.69	62.38 181.80		13.03	57.47 999.00		999.00	4.90	0.00
20 9 25 10 249.80			999.00 221.		2.61	63.71 218.00	2.85	14.56	61.25 999.00		999.00	3.15	0.00
20 9 25 11 171.20			999.00 192.		54.52	65.29 140.30	2.03	43.60	66.87 999.00		999.00	1.32	0.00
20 9 25 12 62.19			999.00 66.		11.45	68.91 65.92	4.78	14.80	71.22 999.00		999.00	0.08	0.00
20 9 25 13 99.50			999.00 100.		8.82	69.27 116.80	5.19	16.40	70.90 999.00		999.00	-1.10	0.00
20 9 25 14 80.30			999.00 72.		5.57	69.27 82.60	7.05	13.97	70.90 999.00		999.00	-1.20	0.00
20 9 25 15 81.00			999.00 74.		6.67	70.55 79.50	7.00	15.36	72.93 999.00		999.00	-1.76	0.00
20 9 25 16 77.60	12.16	4.50 70.97	999.00 71.	50 10.34	8.25	71.08 82.40	7.19	15.43	73.45 999.00	-2.54	999.00	-1.58	0.00

20 9 25 27 76.00 13.00 52.99 99.00 98.00 98.00 11.00 88.28 99.00 72.50 74.00 14.00 72.80 99.00 -1.20 99.00 -1.20 0.00 0.00 0.00 14.00 0.00 0.00 14.00 0.00 0	20	0 05 17	76 20	12.05	F 0F	000 00	000 00	60.00	11 00	0 20	000 00	70 50	7 61	14 01	72 40	000 00	0 01	000 00	1 0 5	0 00
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20 9 25 22 157.40 16.90 1.89 72.03 999.00 241.90 12.65 2.24 89.62 154.50 1.93 20.72 65.61 999.00 7.72 999.00 3.31 0.00 1.00 92.65 173.89 91.00 1.00 1.00 1.00 1.00 1.00 1.00 1.																				
20 92 25 24 173,80 21,20 1.08 72,40 999,00 164,00 17,37 1.43 70,22 163,20 2.69 17,65 65,50 999,00 7,12 990,00 5,16 0.00																				
20 9 26 1 1 172,90 21,62 1795,50 21,62 68,13 17,30 99,00 13,50 17,30 2,44 68,82 16,90 3,56 195,00 21,75 99,00 3,26 2,26 10,00 20 9 26 3 183,50 23,18 2,19 61,13 999,00 11,20 18 18,12 3,64 67,33 173,70 4,76 18,28 64,31 999,00 3,58 999,00 1,99 90,00 1,90 99,00																				
20 926 2 1795 0 22.75 1.62 69.91 999.00 174.20 16.89 2.66 67.73 173.30 3.34 21.28 63.51 999.00 4.13 999.00 2.26 0.00 20 926 4 197.10 18.90 1.66 65.44 999.00 194.20 14.95 2.80 66.67 205.00 4.13 15.03 63.15 999.00 1.65 899.00 0.00 20 926 6 202.00 17.38 2.28 66.45 999.00 193.30 12.22 2.88 62.96 206.00 4.02 14.01 61.98 999.00 2.01 0.00 20 926 6 202.00 17.66 1.14 65.18 999.00 18.20 18.18 1.18 62.96 206.00 4.17 19.18 67.20 1.18 67.20 1.18 20 926 7 202.00 17.66 1.14 65.18 999.00 18.20 18.18 1.18 62.96 206.00 17.66 1.14 67.18 999.00 18.20 18.18 1.18 20 926 1 202.00 17.66 1.14 65.18 999.00 18.20 18.18 1.1																				
20 926 3 183 50 22.18 2.49 67.13 999.00 191.50																				
20 92 6 1971 19.00 1.86 1.86 63.44 999.00 19.30 14.95 1.96 62.96 62.06 62.23 19.10 63.15 999.00 1.65 999.00 1.65 999.00 0.67 0.00																				
20 926 5 203.00 17,88 2.28																				
29 26 6 212 30 18 18 1.14 61 88 89 99 00 18 29 18 1.51 63 21 19 17 61 19 10 71 61 19 19 10 10 10 10 10 1																				
20 9 26 7 200.20 16.87 1.81 64.88 999.00 183.20 15.13 2.03 62.94 179.30 3.75 16.81 60.49 999.00 4.13 999.00 2.02 0.00																				
20 9 26 9 26 9 26 9 26 9 26 9 26 9 26 9 26 9 26 9 26 9 26 10 20 30 1 15 6 4 2 2 26 11 18 10 11 15 6 4 6 5 8 5 6 20 10 6 6 6 5 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 0 1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 2 3 2 1 2 3 <td></td>																				
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20 9 26 24 192.30	20	9 26 22	188.40	23.36	3.78	71.47	999.00	184.80	19.80	5.01	71.47	192.70	8.77	14.84	71.23	999.00	0.15	999.00	-0.03	0.00
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20 9 27 4 197.70 22.84 4.20 64.55 999.00 193.80 19.99 5.16 64.76 200.40 8.50 14.94 65.06 999.00 -0.51 999.00 -0.39 0.00 20 9 27 5 198.20 23.79 3.78 63.58 999.00 194.00 20.63 5.09 63.73 199.40 9.42 13.74 63.98 999.00 -0.40 999.00 -0.36 0.00 20 9 27 7 202.60 23.53 3.51 62.46 999.00 194.90 21.70 4.39 63.04 201.60 9.53 14.26 63.25 999.00 -0.25 999.00 -0.26 0.00 20 9 27 8 197.40 24.43 3.90 62.23 999.00 194.00 21.30 4.77 62.39 201.20 10.24 14.52 62.72 999.00 -0.64 999.00 -0.52 0.00 20 9 27 10 210.20 21.83 6.82 63.91 999.00 198.30 20.93 5.98 62.51 208.00 11.36 15.27 63.47 999.00 -1.78 999.00 -1.00 0.00 20 9 27 11 219.30 24.93 5.07 66.45 999.00 206.16.70 23.66 6.76 66.99 225.40 15.54 13.52 69.08 999.00 -2.89 999.00 -1.45 0.00 20 9 27 12 211.40 21.20 8.96 68.84 999.00 210.10 20.25 10.10 69.35 219.70 13.02 16.33 71.98 999.00 -2.89 999.00 -1.75 0.00 20 9 27 12 211.40 21.20 8.96 68.84 999.00 210.10 20.25 10.10 69.35 219.70 13.02 16.33 71.98 999.00 -3.41 999.00 -2.05 0.00 20 9 27 15 190.00 19.93 10.30 75.76 999.00 207.10 19.69 7.71 71.77 216.20 12.91 15.66 74.73 999.00 -3.72 999.00 -1.51 0.00 20 9 27 16 194.00 19.93 10.30 75.76 999.00 191.80 18.54 13.38 77.92 202.90 10.64 17.61 80.60 999.00 -3.22 999.00 -1.51 0.00 20 9 27 18 208.30 19.89 7.76 78.15 999.00 205.90 18.93 8.84 78.68 214.80 11.16 15.92 81.20 999.00 -2.97 999.00 -1.51 0.00 20 9 27 18 208.30 19.89 7.76 78.15 999.00 205.90 18.93 8.84 78.68 214.80 11.16 15.92 81.20 999.00 -2.97 999.00 -1.51 0.00 20 9 27 18 208.30 19.89 7.76 78.15 999.00 205.90 18.93 8.84 78.68 214.80 11.16 15.92 81.20 999.00 -0.58 999.00 -1.51 0.00 20 9 27 18 208.30 18.87 6.59 78.15 999.00 205.90 18.93 8.84 78.68 214.80 11.16 15.92 81.20 999.00 -0.58 999.00 -0.74 0.00 20 9 27 18 208.30 18.87 6.59 78.15 999.00 205.90 18.93 8.84 78.68 214.80 11.16 15.92 81.20 999.00 -0.58 999.00 -0.74 0.00 20 9 27 18 208.30 18.87 78.85 999.00 205.90 18.93 8.84 78.68 214.80 11.16 15.92 81.20 999.00 -0.58 999.00 -0.74 0.00 20 9 27 18 208.30 18.87 6.59 78.15 999.00 205.90 18.93 8.84 78.68 214.80 11.16 15.92 81.20 999.00	20	9 27 2	201.10	21.94	5.09	66.76	999.00	197.90	18.51	6.49	66.92	206.60	8.22	15.70	67.04	999.00	-0.30	999.00	-0.26	0.00
20 9 27 5 198.20 23.79 3.78 63.58 999.00 194.00 20.63 5.09 63.73 199.40 9.42 13.74 63.98 999.00 -0.40 999.00 -0.36 0.00 20 9 27 6 199.50 24.64 3.23 62.91 999.00 194.90 21.70 4.39 63.04 201.60 9.53 14.26 63.25 999.00 -0.25 999.00 -0.26 0.00 20 9 27 7 202.60 23.53 3.51 62.46 999.00 198.40 20.21 4.96 62.52 205.00 8.89 13.48 62.74 999.00 -0.20 999.00 -0.28 0.00 20 9 27 8 197.40 24.43 3.90 62.23 999.00 194.00 21.30 4.77 62.39 201.20 10.24 14.52 62.72 999.00 -0.64 999.00 -0.52 0.00 20 9 27 10 210.20 21.83 6.82 63.91 999.00 198.30 20.93 5.98 62.51 208.00 11.36 15.27 63.47 999.00 -1.78 999.00 -1.00 0.00 20 9 27 12 12.93 24.93 5.07 66.45 999.00 216.70 23.66 6.76 66.99 225.40 15.54 13.52 69.08 999.00 -2.89 999.00 -1.75 0.00 20 9 27 12 211.40 21.20 8.96 68.84 999.00 210.10 20.25 10.10 69.35 219.70 13.02 16.33 71.98 999.00 -3.41 999.00 -2.05 0.00 20 9 27 14 209.70 19.69 6.82 71.23 999.00 207.10 19.69 7.71 71.77 216.20 12.91 15.66 74.73 999.00 -3.50 999.00 -2.02 0.00 20 9 27 15 190.00 19.93 10.30 75.76 999.00 191.80 18.54 13.38 77.92 202.90 10.64 17.61 80.60 999.00 -2.24 999.00 -1.38 0.00 20 9 27 18 208.30 19.89 7.76 78.15 999.00 205.90 18.93 8.84 78.68 214.80 11.16 15.92 81.20 999.00 -2.41 999.00 -1.57 0.00 20 9 27 18 208.30 19.89 7.76 78.15 999.00 205.90 18.93 8.84 78.68 214.80 11.16 15.92 81.20 999.00 -2.41 999.00 -1.57 0.00 20 9 27 18 208.30 19.89 7.76 78.15 999.00 205.90 18.93 8.84 78.68 214.80 11.16 15.92 81.20 999.00 -2.41 999.00 -0.77 0.00 20 9 27 18 208.30 19.89 7.76 78.15 999.00 205.90 18.93 8.84 78.68 214.80 11.16 15.92 81.20 999.00 -2.41 999.00 -0.77 0.00 20 9 27 18 206.30 18.37 6.59 78.15 999.00 205.90 18.93 8.84 78.68 214.80 11.16 15.92 81.20 999.00 -2.41 999.00 -0.77 0.00 20 9 27 18 206.30 18.37 6.59 78.15 999.00 205.90 18.93 78.76 205.30 6.62 14.88 79.65 999.00 -2.41 999.00 -0.77 0.00 20 9 27 18 206.30 18.37 6.59 78.15 999.00 205.90 15.50 15.50 6.62 14.88 79.65 999.00 -2.58 999.00 -0.77 0.00 20 9 27 19 202.80 16.69 3.88 78.38 999.00 15.50 5.52 78.76 205.30 6.62 14.88 79.65 999.00 -0.58 999.00 -0.78 999.00 0.	20	9 27 3	199.40	21.02	4.97	65.81	999.00	196.70	17.79	5.97	66.03	204.80	8.23	15.49	66.28	999.00	-0.52	999.00	-0.44	0.00
20 9 27 6 199.50	20	9 27 4	197.70	22.84	4.20	64.55	999.00	193.80	19.99	5.16	64.76	200.40	8.50	14.94	65.06	999.00	-0.51	999.00	-0.39	0.00
20 9 27 7 202.60 23.53 3.51 62.46 999.00 198.40 20.21 4.96 62.52 205.00 8.89 13.48 62.74 999.00 -0.20 999.00 -0.28 0.00 20 9 27 8 197.40 24.43 3.90 62.23 999.00 194.00 21.30 4.77 62.39 201.20 10.24 14.52 62.72 999.00 -0.64 999.00 -0.52 0.00 20 9 27 9 201.80 23.31 5.01 62.20 999.00 198.30 20.93 5.98 62.51 208.00 11.36 15.27 63.47 999.00 -1.78 999.00 -1.00 0.00 20 9 27 10 210.20 21.83 6.82 63.91 999.00 206.10 20.68 7.68 64.36 214.50 12.42 15.06 66.26 999.00 -2.62 999.00 -1.45 0.00 20 9 27 12 219.30 24.93 5.07 66.45 999.00 216.70 23.66 6.76 66.99 225.40 15.54 13.52 69.08 999.00 -2.62 999.00 -1.75 0.00 20 9 27 12 211.40 21.20 8.96 68.84 999.00 210.10 20.25 10.10 69.35 219.70 13.02 16.33 71.98 999.00 -3.41 999.00 -2.05 0.00 20 9 27 14 209.70 19.69 6.82 73.57 999.00 207.10 19.69 7.71 71.77 216.20 12.91 15.66 74.73 999.00 -3.50 999.00 -2.02 0.00 20 9 27 15 190.00 19.93 10.30 75.76 999.00 187.20 19.26 10.77 76.29 198.60 10.36 19.30 79.35 999.00 -3.35 999.00 -1.40 0.00 20 9 27 16 194.00 19.93 10.30 75.76 999.00 191.80 18.54 13.38 77.92 202.90 10.64 17.61 80.60 999.00 -2.97 999.00 -1.51 0.00 20 9 27 18 206.30 19.89 7.76 78.15 999.00 203.10 17.25 7.61 78.68 211.40 11.6 15.92 81.20 999.00 -2.41 999.00 -0.78 999.00 -0.78 0.00 20 9 27 18 206.30 18.37 6.59 78.15 999.00 203.10 17.25 7.61 78.68 211.40 9.63 16.53 81.20 999.00 -2.41 999.00 -0.78 999.00 -	20	9 27 5	198.20	23.79	3.78	63.58	999.00	194.00	20.63	5.09	63.73	199.40	9.42	13.74	63.98	999.00	-0.40	999.00	-0.36	0.00
20 9 27 8 197.40	20	9 27 6	199.50	24.64	3.23	62.91	999.00	194.90	21.70	4.39	63.04	201.60	9.53	14.26	63.25	999.00	-0.25	999.00	-0.26	0.00
20 9 27 9 201.80 23.31 5.01 62.20 999.00 198.30 20.93 5.98 62.51 208.00 11.36 15.27 63.47 999.00 -1.78 999.00 -1.00 0.00 20 9 27 10 210.20 21.83 6.82 63.91 999.00 206.10 20.68 7.68 64.36 214.50 12.42 15.06 66.26 999.00 -2.62 999.00 -1.45 0.00 20 9 27 11 219.30 24.93 5.07 66.45 999.00 216.70 23.66 6.76 66.99 225.40 15.54 13.52 69.08 999.00 -2.89 999.00 -1.75 0.00 20 9 27 12 211.40 21.20 8.96 68.84 999.00 210.10 20.25 10.10 69.35 219.70 13.02 16.33 71.98 999.00 -3.41 999.00 -2.05 0.00 20 9 27 13 209.40 20.36 6.82 71.23 999.00 207.10 19.69 7.71 71.77 216.20 12.91 15.66 74.73 999.00 -3.50 999.00 -2.02 0.00 20 9 27 14 209.70 19.69 6.82 73.57 999.00 207.40 18.90 7.43 74.11 217.50 12.54 14.53 77.23 999.00 -3.72 999.00 -2.11 0.00 20 9 27 15 190.00 19.93 10.30 75.76 999.00 187.20 19.26 10.77 76.29 198.60 10.36 19.30 79.35 999.00 -3.22 999.00 -1.40 0.00 20 9 27 16 194.00 19.78 11.26 77.38 999.00 205.90 18.54 13.38 77.92 202.90 10.64 17.61 80.60 999.00 -3.22 999.00 -1.51 0.00 20 9 27 18 208.30 19.89 7.76 78.15 999.00 205.90 18.93 8.84 78.68 214.80 11.66 15.92 81.20 999.00 -2.41 999.00 -0.77 0.00 20 9 27 18 206.30 18.37 6.59 78.15 999.00 203.10 17.25 7.61 78.68 211.40 9.63 16.53 81.20 999.00 -2.41 999.00 -0.77 0.00 20 9 27 19 202.80 16.69 3.88 78.38 999.00 199.80 15.03 5.32 78.76 205.30 6.62 14.38 79.65 999.00 -0.58 999.00 0.14 0.00	20	9 27 7	202.60	23.53	3.51		999.00	198.40	20.21	4.96	62.52	205.00	8.89	13.48	62.74	999.00	-0.20	999.00	-0.28	0.00
20 9 27 10 210.20 21.83 6.82 63.91 999.00 206.10 20.68 7.68 64.36 214.50 12.42 15.06 66.26 999.00 -2.62 999.00 -1.45 0.00 20 9 27 11 219.30 24.93 5.07 66.45 999.00 216.70 23.66 6.76 66.99 225.40 15.54 13.52 69.08 999.00 -2.89 999.00 -1.75 0.00 20 9 27 12 211.40 21.20 8.96 68.84 999.00 210.10 20.25 10.10 69.35 219.70 13.02 16.33 71.98 999.00 -3.41 999.00 -2.05 0.00 20 9 27 13 209.40 20.36 6.82 71.23 999.00 207.10 19.69 7.71 71.77 216.20 12.91 15.66 74.73 999.00 -3.50 999.00 -2.02 0.00 20 9 27 14 209.70 19.69 6.82 73.57 999.00 207.40 18.90 7.43 74.11 217.50 12.54 14.53 77.23 999.00 -3.72 999.00 -2.11 0.00 20 9 27 15 190.00 19.93 10.30 75.76 999.00 187.20 19.26 10.77 76.29 198.60 10.36 19.30 79.35 999.00 -3.25 999.00 -1.40 0.00 20 9 27 16 194.00 19.78 11.26 77.38 999.00 191.80 18.54 13.38 77.92 202.90 10.64 17.61 80.60 999.00 -2.97 999.00 -1.51 0.00 20 9 27 18 206.30 18.37 6.59 78.15 999.00 203.10 17.25 7.61 78.68 211.40 11.6 15.92 81.20 999.00 -2.41 999.00 -0.77 0.00 20 9 27 18 206.30 18.37 6.59 78.15 999.00 203.10 17.25 7.61 78.68 211.40 9.63 16.53 81.20 999.00 -2.41 999.00 -0.77 0.00 20 9 27 19 202.80 16.69 3.88 78.38 999.00 199.80 15.03 5.32 78.76 205.30 6.62 14.38 79.65 999.00 -0.58 999.00 0.14 0.00	20		197.40	24.43	3.90	62.23	999.00	194.00	21.30	4.77			10.24	14.52	62.72	999.00	-0.64	999.00	-0.52	
20 9 27 11 219.30 24.93 5.07 66.45 999.00 216.70 23.66 6.76 66.99 225.40 15.54 13.52 69.08 999.00 -2.89 999.00 -1.75 0.00 20 9 27 12 211.40 21.20 8.96 68.84 999.00 210.10 20.25 10.10 69.35 219.70 13.02 16.33 71.98 999.00 -3.41 999.00 -2.05 0.00 20 9 27 13 209.40 20.36 6.82 71.23 999.00 207.10 19.69 7.71 71.77 216.20 12.91 15.66 74.73 999.00 -3.50 999.00 -2.02 0.00 20 9 27 14 209.70 19.69 6.82 73.57 999.00 207.40 18.90 7.43 74.11 217.50 12.54 14.53 77.23 999.00 -3.72 999.00 -2.11 0.00 20 9 27 15 190.00 19.93 10.30 75.76 999.00 187.20 19.26 10.77 76.29 198.60 10.36 19.30 79.35 999.00 -3.35 999.00 -1.40 0.00 20 9 27 16 194.00 19.78 11.26 77.38 999.00 191.80 18.54 13.38 77.92 202.90 10.64 17.61 80.60 999.00 -3.22 999.00 -1.51 0.00 20 9 27 18 206.30 19.89 7.76 78.15 999.00 205.90 18.93 8.84 78.68 214.80 11.16 15.92 81.20 999.00 -2.41 999.00 -0.77 0.00 20 9 27 19 202.80 16.69 3.88 78.38 999.00 199.80 15.03 5.32 78.76 205.30 6.62 14.38 79.65 999.00 -0.58 999.00 0.14 0.00	20				5.01	62.20				5.98					63.47	999.00			-1.00	
20 9 27 12 211.40 21.20 8.96 68.84 999.00 210.10 20.25 10.10 69.35 219.70 13.02 16.33 71.98 999.00 -3.41 999.00 -2.05 0.00 20 9 27 13 209.40 20.36 6.82 71.23 999.00 207.10 19.69 7.71 71.77 216.20 12.91 15.66 74.73 999.00 -3.50 999.00 -2.02 0.00 20 9 27 14 209.70 19.69 6.82 73.57 999.00 207.40 18.90 7.43 74.11 217.50 12.54 14.53 77.23 999.00 -3.72 999.00 -2.11 0.00 20 9 27 15 190.00 19.93 10.30 75.76 999.00 187.20 19.26 10.77 76.29 198.60 10.36 19.30 79.35 999.00 -3.35 999.00 -1.40 0.00 20 9 27 16 194.00 19.78 11.26 77.38 999.00 191.80 18.54 13.38 77.92 202.90 10.64 17.61 80.60 999.00 -3.22 999.00 -1.51 0.00 20 9 27 18 208.30 19.89 7.76 78.15 999.00 205.90 18.93 8.84 78.68 214.80 11.16 15.92 81.20 999.00 -2.97 999.00 -1.38 0.00 20 9 27 18 206.30 18.37 6.59 78.15 999.00 203.10 17.25 7.61 78.68 211.40 9.63 16.53 81.20 999.00 -0.58 999.00 0.14 0.00 20 9 27 19 202.80 16.69 3.88 78.38 999.00 199.80 15.03 5.32 78.76 205.30 6.62 14.38 79.65 999.00 -0.58 999.00 0.14 0.00	20	9 27 10	210.20						20.68	7.68									-1.45	0.00
20 9 27 13 209.40 20.36 6.82 71.23 999.00 207.10 19.69 7.71 71.77 216.20 12.91 15.66 74.73 999.00 -3.50 999.00 -2.02 0.00 20 9 27 14 209.70 19.69 6.82 73.57 999.00 207.40 18.90 7.43 74.11 217.50 12.54 14.53 77.23 999.00 -3.72 999.00 -2.11 0.00 20 9 27 15 190.00 19.93 10.30 75.76 999.00 187.20 19.26 10.77 76.29 198.60 10.36 19.30 79.35 999.00 -3.35 999.00 -1.40 0.00 20 9 27 16 194.00 19.78 11.26 77.38 999.00 191.80 18.54 13.38 77.92 202.90 10.64 17.61 80.60 999.00 -3.22 999.00 -1.51 0.00 20 9 27 17 208.30 19.89 7.76 78.15 999.00 205.90 18.93 8.84 78.68 214.80 11.16 15.92 81.20 999.00 -2.97 999.00 -1.38 0.00 20 9 27 18 206.30 18.37 6.59 78.15 999.00 203.10 17.25 7.61 78.68 211.40 9.63 16.53 81.20 999.00 -2.41 999.00 -0.77 0.00 20 9 27 19 202.80 16.69 3.88 78.38 999.00 199.80 15.03 5.32 78.76 205.30 6.62 14.38 79.65 999.00 -0.58 999.00 0.14 0.00																				
20 9 27 14 209.70 19.69 6.82 73.57 999.00 207.40 18.90 7.43 74.11 217.50 12.54 14.53 77.23 999.00 -3.72 999.00 -2.11 0.00 20 9 27 15 190.00 19.93 10.30 75.76 999.00 187.20 19.26 10.77 76.29 198.60 10.36 19.30 79.35 999.00 -3.35 999.00 -1.40 0.00 20 9 27 16 194.00 19.78 11.26 77.38 999.00 191.80 18.54 13.38 77.92 202.90 10.64 17.61 80.60 999.00 -3.22 999.00 -1.51 0.00 20 9 27 17 208.30 19.89 7.76 78.15 999.00 205.90 18.93 8.84 78.68 214.80 11.16 15.92 81.20 999.00 -2.97 999.00 -1.38 0.00 20 9 27 18 206.30 18.37 6.59 78.15 999.00 203.10 17.25 7.61 78.68 211.40 9.63 16.53 81.20 999.00 -2.41 999.00 -0.77 0.00 20 9 27 19 202.80 16.69 3.88 78.38 999.00 199.80 15.03 5.32 78.76 205.30 6.62 14.38 79.65 999.00 -0.58 999.00 0.14 0.00																				
20 9 27 15 190.00 19.93 10.30 75.76 999.00 187.20 19.26 10.77 76.29 198.60 10.36 19.30 79.35 999.00 -3.35 999.00 -1.40 0.00 20 9 27 16 194.00 19.78 11.26 77.38 999.00 191.80 18.54 13.38 77.92 202.90 10.64 17.61 80.60 999.00 -3.22 999.00 -1.51 0.00 20 9 27 17 208.30 19.89 7.76 78.15 999.00 205.90 18.93 8.84 78.68 214.80 11.16 15.92 81.20 999.00 -2.97 999.00 -1.38 0.00 20 9 27 18 206.30 18.37 6.59 78.15 999.00 203.10 17.25 7.61 78.68 211.40 9.63 16.53 81.20 999.00 -2.41 999.00 -0.77 0.00 20 9 27 19 202.80 16.69 3.88 78.38 999.00 199.80 15.03 5.32 78.76 205.30 6.62 14.38 79.65 999.00 -0.58 999.00 0.14 0.00																				
20 9 27 16 194.00 19.78 11.26 77.38 999.00 191.80 18.54 13.38 77.92 202.90 10.64 17.61 80.60 999.00 -3.22 999.00 -1.51 0.00 20 9 27 17 208.30 19.89 7.76 78.15 999.00 205.90 18.93 8.84 78.68 214.80 11.16 15.92 81.20 999.00 -2.97 999.00 -1.38 0.00 20 9 27 18 206.30 18.37 6.59 78.15 999.00 203.10 17.25 7.61 78.68 211.40 9.63 16.53 81.20 999.00 -2.41 999.00 -0.77 0.00 20 9 27 19 202.80 16.69 3.88 78.38 999.00 199.80 15.03 5.32 78.76 205.30 6.62 14.38 79.65 999.00 -0.58 999.00 0.14 0.00																				
20 9 27 17 208.30 19.89 7.76 78.15 999.00 205.90 18.93 8.84 78.68 214.80 11.16 15.92 81.20 999.00 -2.97 999.00 -1.38 0.00 20 9 27 18 206.30 18.37 6.59 78.15 999.00 203.10 17.25 7.61 78.68 211.40 9.63 16.53 81.20 999.00 -2.41 999.00 -0.77 0.00 20 9 27 19 202.80 16.69 3.88 78.38 999.00 199.80 15.03 5.32 78.76 205.30 6.62 14.38 79.65 999.00 -0.58 999.00 0.14 0.00																				
20 9 27 18 206.30 18.37 6.59 78.15 999.00 203.10 17.25 7.61 78.68 211.40 9.63 16.53 81.20 999.00 -2.41 999.00 -0.77 0.00 20 9 27 19 202.80 16.69 3.88 78.38 999.00 199.80 15.03 5.32 78.76 205.30 6.62 14.38 79.65 999.00 -0.58 999.00 0.14 0.00																				
20 9 27 19 202.80 16.69 3.88 78.38 999.00 199.80 15.03 5.32 78.76 205.30 6.62 14.38 79.65 999.00 -0.58 999.00 0.14 0.00																				
20 9 27 20 180.50 15.79 3.77 76.86 999.00 175.00 13.94 4.05 77.05 176.20 4.38 19.01 76.33 999.00 0.65 999.00 0.60 0.00																				
	20	9 27 20	180.50	15.79	3.77	76.86	999.00	175.00	13.94	4.05	77.05	176.20	4.38	19.01	76.33	999.00	0.65	999.00	0.60	0.00

00 0 07 01 067 70	12 04 05 (70.00	000 00 067 00	10 14	05 57	70 50 074 50	7 07	00 54	72 52 000 00	0.60.000.00	0.00	0 00
20 9 27 21 267.70	13.84 25.8		999.00 267.30	13.14	25.57	73.58 274.50	7.97	23.54	73.53 999.00	-0.62 999.00	-0.29	0.00
20 9 27 22 357.10	5.60 13.1		999.00 355.90	4.82	16.88	71.36 329.90	2.78	40.57	71.58 999.00	-0.17 999.00	-0.42	0.00
20 9 27 23 140.00	6.94 16.7		999.00 129.90	6.58	17.54	70.68 138.00	3.70	33.14	70.09 999.00	0.90 999.00	1.07	0.00
20 9 27 24 181.50 20 9 28 1 177.10	14.08 2.9 19.89 4.6		999.00 176.20 999.00 173.30	11.67 17.33	3.54 5.81	69.69 192.10 68.39 187.30	3.37 7.52	17.46 22.44	68.48 999.00 68.20 999.00	0.96 999.00 -0.34 999.00	0.57 -0.36	0.00
20 9 28 1 177.10 20 9 28 2 190.70	19.89 4.6 20.18 3.4		999.00 173.30	16.40	4.59	66.88 194.80	6.04	15.55	68.20 999.00 66.75 999.00	0.50 999.00	0.08	0.00
20 9 28 3 190.30	17.66 2.9		999.00 186.00	14.44	3.75	66.03 193.70	5.05	14.31	65.77 999.00	0.63 999.00	0.00	0.00
20 9 28 4 189.00	19.90 2.3		999.00 182.60	16.72	3.75	65.23 187.00	6.42	14.23	64.43 999.00	1.00 999.00	0.23	0.00
20 9 28 5 185.00	18.35 3.7		999.00 181.60	15.43	4.89	64.49 190.10	6.11	17.05	64.32 999.00	-0.09 999.00	-0.22	0.00
20 9 28 6 192.20	19.67 3.5		999.00 189.00	16.67	4.34	64.16 196.70	6.64	15.62	64.06 999.00	-0.11 999.00	-0.30	0.00
20 9 28 7 194.40	18.94 3.0		999.00 191.20	16.36	3.79	64.00 201.50	6.76	15.34	64.29 999.00	-0.46 999.00	-0.46	0.00
20 9 28 8 211.50	11.33 7.3		999.00 210.50	9.38	9.17	62.90 208.10	4.49	19.56	63.22 999.00	-0.58 999.00	-0.46	0.00
20 9 28 9 201.80	12.95 6.2		999.00 198.70	11.21	7.61	62.62 208.50	6.75	15.58	63.85 999.00	-2.42 999.00	-1.36	0.00
20 9 28 10 209.90	13.51 5.2		999.00 207.40	12.91	5.82	64.64 212.50	8.17	13.41	66.49 999.00	-2.14 999.00	-1.28	0.00
20 9 28 11 208.10	11.45 9.3		999.00 207.40	11.17	8.83	65.83 219.50	8.01	15.91	68.05 999.00	-3.29 999.00	-1.72	0.00
20 9 28 12 195.60	12.53 8.8		999.00 194.00	12.04	10.42	67.44 206.70	7.02	19.47	69.75 999.00	-2.51 999.00	-1.32	0.00
20 9 28 13 197.40	10.64 12.0		999.00 195.40	9.74	12.69	68.54 207.80	5.18	19.19	70.15 999.00	-1.57 999.00	-0.87	0.07
20 9 28 14 205.90	15.90 6.7		999.00 203.90	14.08	7.49	66.62 215.20	8.72	12.85	66.63 999.00	-0.83 999.00	-4.00	0.00
20 9 28 15 237.20	15.16 7.2	4 66.63	999.00 237.40	14.14	8.27	67.10 246.90	9.52	12.48	67.71 999.00	-1.57 999.00	-2.76	0.02
20 9 28 16 291.80	16.27 5.5	60.25	999.00 288.70	15.66	5.50	60.90 290.10	9.98	11.82	61.59 999.00	-1.02 999.00	-2.29	0.05
20 9 28 17 303.50	20.00 5.5	60.25	999.00 301.00	19.04	6.31	60.90 306.30	12.05	11.52	61.59 999.00	-1.38 999.00	-3.68	0.08
20 9 28 18 286.70	23.08 5.2	55.38	999.00 282.80	21.28	5.66	56.27 283.40	14.04	10.16	56.74 999.00	-1.43 999.00	-3.88	0.12
20 9 28 19 301.80	19.26 6.0	1 54.27	999.00 298.50	18.10	6.62	55.57 302.30	10.92	12.35	55.58 999.00	-1.22 999.00	-2.31	0.02
20 9 28 20 288.30	12.62 7.5		999.00 282.30	11.37	8.30	54.81 279.40	6.20	13.51	54.90 999.00	-1.18 999.00	-2.25	0.02
20 9 28 21 262.60	14.37 3.4		999.00 255.60	12.63	4.02	53.60 251.30	6.15	9.55	53.79 999.00	-0.90 999.00	-1.60	0.00
20 9 28 22 235.60	13.06 5.6	53.50	999.00 232.80	11.48	6.32	54.34 239.50	8.68	10.45	54.41 999.00	-1.11 999.00	-1.65	0.00
20 9 28 23 232.60	13.74 4.1		999.00 228.30	12.38	5.26	54.34 226.80	8.09	10.14	54.41 999.00	-1.11 999.00	-1.60	0.00
20 9 28 24 227.30	15.59 4.7		999.00 223.50	13.53	6.14	53.89 223.60	7.59	11.74	54.38 999.00	-1.04 999.00	-1.35	0.00
20 9 29 1 223.50	17.22 3.6		999.00 219.70	14.96	5.34	53.47 218.80	7.59	11.61	53.88 999.00	-0.92 999.00	-1.06	0.00
20 9 29 2 228.20	16.56 3.9			13.86	5.04	52.52 221.20	7.55	11.54	52.89 999.00	-0.80 999.00	-1.06	0.00
20 9 29 3 234.30	16.94 4.5		999.00 230.80	14.36	6.02	51.81 230.00	9.13	11.14	52.19 999.00	-0.99 999.00	-1.02	0.00
20 9 29 4 231.10	16.44 3.9		999.00 226.70	13.68	5.28	51.13 219.40	7.54	11.31	51.60 999.00	-0.53 999.00	-0.95	0.00
20 9 29 5 237.90 20 9 29 6 235.20	18.38 4.5		999.00 235.90 999.00 232.20	15.61 12.86	6.30	51.13 242.10 50.23 226.40	9.73 8.80	9.44 10.02	51.60 999.00 50.63 999.00	-0.50 999.00 -0.37 999.00	-1.39	0.00
20 9 29 6 235.20 20 9 29 7 231.10	14.92 5.5 14.73 4.6		999.00 232.20	11.36	6.46 6.11	48.74 215.50	5.57	14.37	50.63 999.00 49.04 999.00	-0.07 999.00	-0.92 -0.74	0.00
20 9 29 7 231.10	15.57 2.3		999.00 214.80	13.27	3.41	47.98 203.00	5.87	12.95	48.01 999.00	0.66 999.00	-0.74	0.00
20 9 29 9 218.80	14.82 4.4		999.00 213.30	12.84	6.30	48.52 220.10	8.38	11.37	49.27 999.00	-1.90 999.00	-1.62	0.00
20 9 29 10 236.00	12.10 7.1		999.00 234.10	11.59	8.19	50.76 241.50	9.04	12.40	52.09 999.00	-2.86 999.00	-2.09	0.00
20 9 29 11 234.10	10.66 5.2		999.00 231.60	10.31	5.07	53.53 233.40	8.57	11.68	55.31 999.00	-3.24 999.00	-2.10	0.00
20 9 29 12 241.90	12.13 9.4		999.00 238.70	11.98	9.82	55.47 240.10	9.74	12.96	58.41 999.00	-3.13 999.00	-2.08	0.00
20 9 29 13 243.70	15.16 4.6		999.00 243.90	14.81	5.76	57.91 249.60	11.06	12.45	60.80 999.00	-3.49 999.00	-2.41	0.00
20 9 29 14 239.70	11.71 11.2	4 57.34	999.00 239.80	11.24	12.15	57.91 247.90	8.08	16.49	60.80 999.00	-2.51 999.00	-1.76	0.00
20 9 29 15 234.50	15.32 5.6	59.36	999.00 233.80	15.16	5.99	59.88 240.10	11.00	12.09	61.85 999.00	-2.24 999.00	-1.32	0.00
20 9 29 16 240.60	13.61 6.9	59.01	999.00 240.20	12.94	8.26	59.53 249.30	9.26	11.13	60.92 999.00	-1.78 999.00	-1.04	0.00
20 9 29 17 226.80	11.43 5.8	2 58.53	999.00 227.20	11.20	6.30	59.02 235.20	8.88	9.65	60.21 999.00	-1.71 999.00	-0.97	0.00
20 9 29 18 210.40	10.21 6.3	58.48	999.00 207.20	9.58	10.68	58.97 213.40	5.83	16.04	60.35 999.00	-1.69 999.00	-0.90	0.00
20 9 29 19 195.40	8.14 4.8		999.00 190.20	7.24	4.93	58.88 186.30	2.82	13.83	59.58 999.00	-0.87 999.00	-0.45	0.00
20 9 29 20 182.60	11.17 2.0		999.00 172.80	10.30	2.28	58.49 171.40	2.73	16.74	57.81 999.00	1.27 999.00	0.83	0.00
20 9 29 21 188.40	12.98 2.2		999.00 182.30	12.09	1.60	58.22 191.20	2.75	13.99	56.31 999.00	2.24 999.00	1.89	0.00
20 9 29 22 205.80	15.35 1.5		999.00 199.40	13.97	1.83	57.97 190.90	4.21	10.71	55.24 999.00	3.36 999.00	2.65	0.00
20 9 29 23 214.50	16.19 1.5		999.00 209.70	14.09	1.80	56.73 204.50	3.86	11.06	54.18 999.00	2.89 999.00	2.02	0.00
20 9 29 24 236.30	15.78 4.7	55.73	999.00 220.10	14.02	2.35	54.39 202.70	4.92	12.33	52.70 999.00	4.53 999.00	1.95	0.00

20 9 30 1 241.10			999.00 224.10	12.72	5.18	53.40 204.60	4.93	12.16	51.15 999.00	2.29 999.00	1.25	0.00
20 9 30 2 250.60	17.43 5.	.94 52.78	999.00 241.10	14.68	6.35	52.20 241.50	8.65	8.03	52.06 999.00	0.04 999.00	-0.21	0.00
20 9 30 3 242.10	15.15 5.	.37 51.83	999.00 236.10	12.14	7.03	51.73 224.30	6.81	10.02	51.71 999.00	0.03 999.00	0.05	0.00
20 9 30 4 229.60	17.57 2.	78 50.24	999.00 223.80	14.65	3.51	49.98 221.90	7.13	9.59	49.60 999.00	0.76 999.00	0.37	0.00
20 9 30 5 226.00	19.16 2.	88 49.22	999.00 220.60	16.20	4.03	48.93 222.30	8.36	10.83	48.68 999.00	0.20 999.00	-0.19	0.00
20 9 30 6 216.20	18.83 4.	35 48.95	999.00 211.20	16.32	5.74	49.01 216.30	8.40	13.01	49.40 999.00	-0.79 999.00	-0.68	0.00
20 9 30 7 217.70	20.06 4.	55 49.63	999.00 213.00	17.19	5.84	49.87 214.50	8.84	14.09	50.36 999.00	-0.43 999.00	-0.26	0.00
20 9 30 8 215.90	22.08 4.	23 50.05	999.00 211.60	19.63	5.43	50.27 219.30	11.22	12.13	50.47 999.00	-0.75 999.00	-0.57	0.00
20 9 30 9 205.30		58 50.52	999.00 201.20	16.65	6.60	50.87 207.40	8.28	15.55	51.75 999.00	-1.53 999.00	-1.00	0.00
20 9 30 10 199.20		43 51.18	999.00 196.10	17.31	7.07	51.62 203.50	9.25	16.02	53.02 999.00	-1.56 999.00	-1.02	0.00
20 9 30 11 192.40		13 52.04	999.00 189.40	19.75	6.46	52.46 197.20	9.96	15.56	53.51 999.00	-1.46 999.00	-1.00	0.00
20 9 30 12 188.60		23 54.18	999.00 184.40	24.56	6.59	54.63 191.90	12.68	16.71	55.86 999.00	-2.06 999.00	-1.15	0.00
20 9 30 13 213.70		01 57.11		34.32	6.91	57.61 221.20	22.43	12.74	58.97 999.00	-1.92 999.00	-1.30	0.00
20 9 30 14 218.90		86 58.83	999.00 216.90	31.13	7.22	59.36 225.00	21.06	11.20	60.87 999.00	-2.57 999.00	-1.71	0.00
20 9 30 15 219.50		.59 60.85	999.00 216.70	31.79	7.12	61.40 226.70	21.22	11.34	63.28 999.00	-1.93 999.00	-1.27	0.00
20 9 30 15 219.30			999.00 234.30	30.04	5.89	61.64 242.10	20.52	11.04		-1.38 999.00	-0.90	0.00
						61.79 233.20	25.26					0.00
20 9 30 17 227.40		.74 61.30		35.21	6.98			11.01	63.05 999.00		-1.37	
20 9 30 18 259.70		68 58.71	999.00 257.80	31.49	10.29	59.52 264.60	18.94	13.53	60.62 999.00	-1.44 999.00	0.93	0.00
20 9 30 19 241.40		.00 52.79	999.00 239.10	24.65	7.30	54.13 245.50	15.31	10.97	53.47 999.00	-0.52 999.00	-1.01	0.00
20 9 30 20 239.80		65 53.39	999.00 237.40	20.26	7.11	54.18 245.70	12.04	10.47	53.87 999.00	-0.29 999.00	-0.60	0.00
20 9 30 21 243.90			999.00 239.80	20.96	6.58	54.57 243.40	12.74	10.68	54.51 999.00	0.15 999.00	-0.60	0.00
20 9 30 22 274.00		63 53.82	999.00 269.90	20.59	5.85	54.04 269.20	11.16	10.58	53.28 999.00	0.99 999.00	-0.27	0.00
20 9 30 23 262.20		.95 52.17		18.70	6.16	52.41 256.80	10.19	10.41	52.15 999.00	0.04 999.00	-0.24	0.00
20 9 30 24 238.10		53 50.57	999.00 231.80	13.76	5.53	50.80 230.20	8.50	13.70	51.00 999.00	-0.74 999.00	-0.56	0.00
20 10 1 1 224.10		.56 49.79	999.00 217.90	18.56	5.12	49.66 222.60	9.46	11.47	49.13 999.00	0.48 999.00	-0.18	0.00
20 10 1 2 229.70	20.79 3.	96 50.43	999.00 223.50	18.41	4.28	50.36 222.60	9.93	10.64	50.10 999.00	0.60 999.00	0.08	0.00
20 10 1 3 223.10	18.79 3.	19 50.28	999.00 218.70	15.87	4.61	50.17 221.00	7.77	10.00	50.00 999.00	0.30 999.00	-0.21	0.00
20 10 1 4 229.10	20.24 3.	.02 49.51	999.00 225.20	17.11	4.43	49.49 228.20	9.76	9.42	49.46 999.00	0.17 999.00	-0.29	0.00
20 10 1 5 239.80	20.02 2.	.77 49.25	999.00 235.20	16.66	3.41	49.03 232.60	10.29	7.68	48.93 999.00	0.42 999.00	-0.22	0.00
20 10 1 6 246.60	20.62 3.	.24 48.79	999.00 242.90	16.53	4.57	48.37 243.60	8.24	7.26	48.04 999.00	1.26 999.00	0.31	0.00
20 10 1 7 240.40	18.22 2.	82 47.83	999.00 232.40	14.38	4.09	47.25 214.70	4.99	12.22	46.14 999.00	2.83 999.00	1.36	0.00
20 10 1 8 231.30	18.22 2.	17 46.96	999.00 224.00	14.66	3.37	46.27 213.50	6.29	11.54	45.28 999.00	1.49 999.00	0.34	0.00
20 10 1 9 229.20	16.49 3.	95 46.25	999.00 224.20	13.75	6.07	45.90 224.60	8.55	11.03	46.32 999.00	-1.41 999.00	-1.04	0.00
20 10 1 10 219.10	12.93 5.	51 47.86	999.00 216.30	12.41	6.08	48.21 226.00	9.83	9.95	50.29 999.00	-2.89 999.00	-1.73	0.00
20 10 1 11 221.40	14.35 4.	67 47.86	999.00 220.20	13.96	5.39	48.21 228.90	10.64	10.37	50.29 999.00	-3.42 999.00	-1.93	0.00
20 10 1 12 243.60	14.76 8.	39 54.88	999.00 243.70	14.18	9.67	55.40 252.50	10.81	15.06	58.07 999.00	-3.46 999.00	-2.21	0.00
20 10 1 13 245.70	13.70 7.	18 56.59	999.00 246.70	13.32	7.97	57.16 251.70	10.02	13.66	59.95 999.00	-2.78 999.00	-1.49	0.00
20 10 1 14 236.10		.08 58.27	999.00 235.30	19.23	9.14	58.83 245.50	14.58	13.52	61.43 999.00	-3.04 999.00	-2.17	0.00
20 10 1 15 228.60		27 59.56	999.00 227.50	21.15	6.68	60.13 233.30	14.77	10.75	62.71 999.00	-3.24 999.00	-1.99	0.00
20 10 1 16 284.30		98 58.37	999.00 281.90	28.35	6.73	58.89 285.60	18.29	10.92	60.88 999.00	-2.01 999.00	-1.49	0.00
20 10 1 17 298.30		21 54.60	999.00 295.40	19.89	8.27	55.10 301.50	13.47	13.19	56.56 999.00	-2.21 999.00	-1.60	0.00
20 10 1 18 262.90		07 54.41	999.00 261.40	12.62	8.26	54.93 267.20	9.36	12.73	56.70 999.00	-1.96 999.00	-1.15	0.00
20 10 1 10 202.30			999.00 228.30	10.09	6.75	54.92 230.90	7.37	10.29	56.29 999.00	-1.76 999.00	-0.63	0.00
					10.41	54.92 247.30			56.29 999.00	-0.25 999.00	0.01	0.00
20 10 1 20 251.20			999.00 256.70	14.16	5.31	52.11 247.10	6.75	9.50	51.81 999.00	0.51 999.00	0.59	0.00
			999.00 258.20			51.26 256.70						
20 10 1 22 263.00				13.82	3.72		6.22	9.02	50.63 999.00	0.12 999.00	0.03	0.00
20 10 1 23 268.40			999.00 263.90	14.76	7.96	50.51 261.20	7.97	11.91	50.96 999.00	-0.94 999.00	-0.65	0.00
20 10 1 24 296.40			999.00 292.70	15.55	7.84	50.77 293.40	8.86	14.66	51.25 999.00	-1.02 999.00	-0.62	0.00
20 10 2 1 306.90			999.00 303.50	22.13	6.50	50.71 308.90	14.30	11.34	51.61 999.00	-1.51 999.00	-1.04	0.00
20 10 2 2 310.80			999.00 307.30	20.10	7.75	50.27 312.50	12.98	12.00	51.21 999.00	-1.47 999.00	-1.00	0.00
20 10 2 3 318.60			999.00 316.40	18.68	7.34		12.41	12.67	51.14 999.00	-1.53 999.00	-1.06	0.00
20 10 2 4 312.10	16.84 7.	.62 49.38	999.00 308.60	16.23	8.91	49.84 312.20	11.57	13.23	50.80 999.00	-1.43 999.00	-0.97	0.00

00 10 0 5 000 10	16 00 0 1	40.00.00		15 00	0 50	40 50	00000	0 01	15.00	40 51	00000	1 0 1	00000	0 00	0 00
20 10 2 5 299.40	16.37 7.43		9.00 295.80	15.38	8.52	48.52		9.01	15.03		999.00		999.00	-0.90	0.00
20 10 2 6 303.40	15.21 5.49		9.00 300.70	14.37	6.20		299.80	7.98	15.47	47.15	999.00	-0.78	999.00	-0.56	0.00
20 10 2 7 285.00	17.92 3.10		9.00 275.60	17.98	2.43		265.30	9.74	8.76	44.41	999.00	1.13	999.00	0.84	0.00
20 10 2 8 284.20	15.92 3.00		9.00 276.00	15.31	3.05	42.38		7.44	9.18	41.85	999.00	0.84	999.00	0.69	0.00
20 10 2 9 283.70	15.95 4.97		9.00 273.70	14.98	4.65		269.00	8.84	10.07	41.97	999.00	-0.95	999.00	-1.07	0.00
20 10 2 10 286.80	15.84 7.36		9.00 283.60	15.18	7.54		285.70	10.96	12.75	45.33	999.00	-2.81	999.00	-2.12	0.00
20 10 2 11 289.80	16.75 7.60		9.00 287.00	16.51	8.03		293.80	12.54	15.17	47.31	999.00	-3.02	999.00	-2.41	0.00
20 10 2 12 288.20	14.47 9.97		9.00 285.90	14.27	11.43	46.56		10.73	18.88	49.14	999.00	-3.23	999.00	-2.75	0.00
20 10 2 13 293.60	15.78 10.48		9.00 291.30	15.80	11.45		300.90	11.48	16.84	52.30	999.00	-3.52	999.00	-2.93	0.00
20 10 2 14 303.20	14.26 9.56		9.00 302.50	14.49	10.53	50.59		11.15	17.62	53.45	999.00	-3.36	999.00	-2.47	0.00
20 10 2 15 319.20	14.05 7.89		9.00 316.90	14.08	8.98	51.67		10.72	13.78	54.57	999.00	-3.25	999.00	-1.90	0.00
20 10 2 16 309.80	13.15 7.54		9.00 309.50	12.74	8.20		315.40	9.79	12.51	54.75	999.00	-2.36	999.00	-1.68	0.00
20 10 2 17 294.60	10.83 5.75		9.00 292.00	10.23	6.53		299.30	6.55	14.55	54.19	999.00	-1.85	999.00	-1.30	0.00
20 10 2 18 280.90	10.15 5.58	52.12 999	9.00 278.10	9.88	6.11	52.62	281.80	6.80	11.89	53.88	999.00	-1.71	999.00	-1.15	0.00
20 10 2 19 292.30	7.50 4.12	51.97 999	9.00 290.80	7.27	4.82	52.45	292.70	3.98	11.20	53.47	999.00	-1.23	999.00	-0.75	0.00
20 10 2 20 286.80	10.65 2.45	51.78 999	9.00 282.90	10.29	3.78	52.17	271.60	4.64	7.11	52.15	999.00	-0.09	999.00	0.46	0.00
20 10 2 21 276.30	10.66 1.32	51.38 999	9.00 272.40	10.51	1.23	51.74	259.30	4.74	7.11	51.27	999.00	0.09	999.00	0.50	0.00
20 10 2 22 277.80	11.06 2.77	50.94 999	9.00 276.00	11.26	2.57	51.29	266.30	4.70	7.70	50.47	999.00	0.88	999.00	1.25	0.00
20 10 2 23 282.40	9.92 3.47	50.41 999	9.00 279.20	10.03	3.28	50.63	246.70	4.94	5.84	49.12	999.00	1.23	999.00	1.10	0.00
20 10 2 24 291.00	8.74 3.02	50.24 999	9.00 287.60	9.70	2.65	50.59	255.50	4.48	7.37	48.65	999.00	1.54	999.00	1.83	0.00
20 10 3 1 270.30	11.10 1.95	49.72 999	9.00 260.00	11.33	4.13	49.38	244.90	6.27	6.89	48.59	999.00	0.85	999.00	0.42	0.00
20 10 3 2 267.30	12.69 1.49	48.90 999	9.00 261.20	12.25	2.77	48.79	249.00	5.49	5.93	47.50	999.00	1.65	999.00	1.44	0.00
20 10 3 3 276.80	10.56 3.47		9.00 268.90	10.36	2.41		241.90	5.47	4.34	47.50	999.00	1.59	999.00	0.98	0.00
20 10 3 4 285.40	10.17 2.71		9.00 271.40	10.52	3.03	45.29		5.22	5.41	43.96	999.00	2.10	999.00	1.03	0.00
20 10 3 5 276.00	9.25 1.15		9.00 265.60	11.07	2.14		243.70	5.83	5.90	42.52	999.00	2.18	999.00	1.06	0.00
20 10 3 6 275.60	7.14 5.82	44.36 999	9.00 256.20	8.70	7.60		214.10	4.63	13.60	41.58	999.00	3.69	999.00	1.79	0.00
20 10 3 7 268.10	13.39 4.38		9.00 253.60	12.26	5.57		242.80	6.08	8.38	39.71	999.00	1.98	999.00	0.27	0.00
20 10 3 8 278.80	9.11 2.76		9.00 279.50	11.53	2.15		258.70	4.83	9.43	40.01	999.00	4.12	999.00	3.22	0.00
20 10 3 9 278.10	10.52 9.81		9.00 250.10	9.13	7.31		233.90	5.87	10.80		999.00	1.08	999.00	-0.48	0.00
20 10 3 10 251.30	9.04 4.18		9.00 248.60	6.79	6.68	41.90		5.51	13.23	43.57	999.00	-0.95	999.00	-1.00	0.00
20 10 3 11 251.50	5.87 16.41		9.00 244.20	5.74	17.40		252.10	4.92	27.58	49.19	999.00	-3.38	999.00	-1.67	0.00
20 10 3 12 229.60	5.17 18.27		9.00 224.60	5.04	16.85		223.70	3.91	40.53	52.91	999.00	-3.64	999.00	-1.10	0.00
20 10 3 13 55.32	4.18 26.77		9.00 44.58	4.57	20.58	52.12	44.60	6.21	19.85	55.60	999.00	-3.71	999.00	0.11	0.00
20 10 3 14 44.19	7.48 12.68		9.00 38.96	6.90	10.88	52.50	46.18	7.14	18.39	55.21	999.00	-3.75	999.00	-0.55	0.00
20 10 3 15 42.29	6.61 9.29		9.00 40.33	5.91	9.18	52.66	54.22	6.30	18.36	55.28	999.00	-2.79	999.00	-0.68	0.00
20 10 3 16 51.18	5.99 9.79		9.00 49.80	5.54	9.89	52.66	62.03	4.99	13.65	55.28	999.00	-1.90	999.00	-1.05	0.00
20 10 3 17 53.74	6.70 9.58		9.00 52.54	6.53	9.36	52.69	69.59	5.11	17.08	54.24	999.00	-2.06	999.00	-1.17	0.00
20 10 3 18 67.92	8.23 6.37		9.00 68.57	8.13	7.23	53.23	81.50	4.81	17.16	54.61	999.00	-1.57	999.00	-0.94	0.00
20 10 3 19 78.70	7.37 4.45		9.00 76.90	7.44	4.25	53.57		3.61	12.06	54.26	999.00	-0.88	999.00	-0.48	0.00
20 10 3 20 88.80	10.00 4.75		9.00 86.60	9.83	5.04		102.30	4.31	12.35	54.15	999.00	-0.54	999.00	-0.17	0.00
20 10 3 21 98.40	14.34 5.40		9.00 95.60	13.58	6.71	54.04		6.44	15.17	54.30	999.00	-0.77	999.00	-0.35	0.00
20 10 3 22 100.90	16.87 3.95		9.00 97.40	16.40	4.43	54.53		7.92	15.29	54.87	999.00	-0.84	999.00	-0.49	0.00
20 10 3 23 112.60	12.48 4.48		9.00 111.70	10.93	6.04		127.40	4.87	13.97		999.00		999.00	-0.37	0.00
	15.17 4.07			12.72		54.41			15.02		999.00		999.00	-0.40	0.00
20 10 4 1 116.80	14.89 4.20		9.00 117.00	12.62	5.58	54.41		5.30	13.41		999.00		999.00	-0.04	0.00
20 10 4 2 127.70	15.92 2.83		9.00 126.00	13.61	4.57	52.58		5.78	13.78		999.00		999.00	-0.32	0.00
20 10 4 3 136.10	12.59 3.85		9.00 131.30	10.56	6.11	51.43		4.07	15.02		999.00		999.00	-0.49	0.00
20 10 4 4 157.70	15.59 4.09		9.00 149.40	12.84	4.59	50.83		3.60	19.72		999.00		999.00	0.03	0.00
20 10 4 5 175.70	13.24 3.30		9.00 166.60	11.04	5.01	50.70		3.66	33.00		999.00		999.00	-0.35	0.00
20 10 4 6 182.40	14.19 1.88		9.00 173.70	11.01	2.11	50.09		4.08	16.38		999.00		999.00	-0.19	0.00
20 10 4 7 188.90	16.27 1.48		9.00 183.20	12.93	3.31	50.53		5.16	13.32		999.00		999.00	-0.19	0.00
20 10 4 8 198.70	11.85 1.62	50.69 999	9.00 193.50	9.56	2.08	50.47	207.60	3.51	12.18	50.63	999.00	0.26	999.00	-0.26	0.00

20 10	4 9	236.40	11.34	3.88	51.15	999 00	228.50	9.31	5.94	50 54	229.10	3.84	17.22	50 40	999.00	0 43	999.00	-0.16	0.00
	4 10		7.66	3.57	50.47	999.00	241.70	6.85	6.02	50.29	247.70	4.40	10.58	51.11	999.00		999.00	-1.01	0.00
		285.90	8.49	7.23	50.20	999.00	281.60	8.41	6.94		283.40	6.69	13.23	52.12	999.00	-2.08	999.00	-1.47	0.00
	4 12		11.01	6.44	49.71	999.00	292.90	10.79	5.51	50.18	294.90	6.67	13.07	51.34	999.00	-1.64		-1.30	0.01
20 10	4 13	279.90	11.10	4.51	49.71	999.00	278.70	10.91	4.16	50.18	280.00	8.33	9.91	51.34	999.00	-0.94	999.00	-1.27	0.00
20 10	4 14	288.10	10.48	5.42	47.91	999.00	283.90	10.06	5.39	48.38	280.20	7.49	8.24	48.98	999.00	-0.69	999.00	-1.38	0.04
20 10	4 15	267.10	3.86	10.53	47.28	999.00	256.70	3.56	9.84	47.67	247.90	3.36	9.97	47.97	999.00	-1.17	999.00	-1.20	0.04
20 10	4 16	298.40	7.16	8.13	47.28	999.00	293.50	7.05	8.34	47.67	287.40	5.25	12.56	47.97	999.00	-1.03	999.00	-1.50	0.01
20 10	4 17	268.50	6.13	13.74	49.31	999.00	267.10	5.70	11.97	49.81	259.80	4.32	15.29	50.85	999.00	-1.82	999.00	-1.74	0.00
20 10	4 18	288.90	7.57	8.01	50.37	999.00	286.10	7.26	7.30	50.85	288.50	5.72	14.51	51.80	999.00	-1.36	999.00	-1.31	0.00
20 10	4 19	267.60	8.53	2.48	50.37	999.00	262.20	8.21	2.59	50.85	252.40	4.71	7.63	51.80	999.00	-0.35	999.00	-0.13	0.00
20 10	4 20	248.00	7.25	8.86	51.03	999.00	243.20	6.40	10.16	51.42		3.62	15.42	51.24	999.00	-0.34	999.00	-0.03	0.00
20 10	4 21	300.60	15.85	8.92	50.32	999.00	293.80	15.18	9.07	50.64	286.50	8.89	11.84	50.59	999.00	-0.41	999.00	-0.34	0.01
20 10	4 22	304.00	9.88	9.75	48.24	999.00	293.40	8.70	8.18	50.30	255.70	3.96	9.12	48.51	999.00	0.95	999.00	1.07	0.00
20 10	4 23	314.30	10.49	10.81	50.31	999.00	301.00	9.98	10.25	51.09	268.50	6.09	10.11	48.47	999.00	1.88	999.00	1.38	0.00
20 10	4 24	348.60	14.79	6.73	50.49	999.00	346.60	14.32	6.54	51.52	348.30	9.57	10.45	50.59	999.00	-1.00	999.00	-1.23	0.00
20 10	5 1		15.38	4.65	49.59	999.00	341.10	14.98	5.47	50.68	345.30	10.24	8.53	50.71	999.00	-0.99	999.00	-1.24	0.00
20 10	5 2		13.23	3.93	49.44	999.00	334.00	13.04	4.67	49.90	334.80	8.47	8.08	50.00	999.00		999.00	-0.57	0.00
20 10 20 10	5 3 5 4	330.20 326.00	11.72 12.20	6.39 4.94	49.03 48.26	999.00 999.00	327.20 324.20	11.47 11.77	6.45 5.78	49.46 48.69	325.70 323.30	6.93 7.32	10.54 10.43	49.26 48.67	999.00 999.00	-0.28 -0.53	999.00 999.00	-0.76 -1.13	0.00
20 10	5 5	326.70	10.92	4.43	48.26	999.00	325.80	10.74	4.81	48.69	329.30	6.54	8.77	48.67	999.00		999.00	-1.13	0.00
20 10	5 6		10.32	5.30	46.20	999.00	311.10	9.91	5.74	47.42		5.43	10.22	47.10	999.00		999.00	-0.20	0.00
20 10	5 7		10.44	2.59	46.18	999.00	300.90	9.95	3.49	46.37	270.00	5.50	8.12	43.87	999.00	3.27	999.00	2.82	0.00
20 10	5 8	293.70	11.77	3.15	45.21	999.00	285.70	11.81	2.96	45.05	250.20	6.40	6.86	41.36	999.00	4.12	999.00	3.71	0.00
20 10	5 9	296.70	11.66	1.34	45.08	999.00	285.60	12.09	2.86	44.71	261.00	5.61	9.27	42.28	999.00	1.95	999.00	1.39	0.00
	5 10		8.47	7.92	45.17	999.00	280.80	7.72	9.10	44.35	276.10	6.21	14.13	45.88	999.00	-2.81	999.00	-1.98	0.00
		264.30	6.03	17.68	46.63	999.00	259.80	6.15	17.19	47.17	260.20	5.04	28.85	49.96	999.00	-3.54		-1.56	0.00
20 10	5 12	234.00	7.75	15.48	48.50	999.00	231.80	7.84	17.07	48.97	239.40	6.63	24.86	52.34	999.00		999.00	-1.96	0.00
20 10	5 13	353.70	4.95	31.23	50.47	999.00	348.60	4.53	37.70	50.74	358.70	4.27	36.32	54.37	999.00	-3.99	999.00	-0.58	0.00
20 10	5 14	1.12	7.27	10.78	50.74	999.00	4.08	7.33	9.51	51.16	13.06	7.10	13.30	54.62	999.00	-3.99	999.00	-0.09	0.00
20 10	5 15	40.99	5.69	11.43	51.27	999.00	39.33	5.56	11.95	51.89	46.24	6.09	19.28	54.43	999.00	-3.49	999.00	-0.77	0.00
20 10	5 16	65.36	6.53	12.72	51.99	999.00	61.94	7.17	12.57	52.65	64.94	7.08	16.65	55.35	999.00	-3.42	999.00	-1.77	0.00
20 10	5 17	159.00	6.91	42.62	53.41	999.00	149.30	5.72	47.37		143.20	3.74	42.15	56.40	999.00	-3.04	999.00	-0.89	0.00
20 10	5 18	206.10	14.12	7.18	56.34	999.00	203.40	13.56	7.82	56.89	211.50	8.52	15.47	59.39	999.00	-2.77	999.00	-1.05	0.00
20 10	5 19	193.70	13.82	4.74	56.37		191.90	12.71	5.53		197.60	5.89	14.86	58.30	999.00	-1.31	999.00	-0.26	0.00
20 10	5 20	180.80	15.51	2.17	55.00	999.00		13.12	2.72		188.90	4.69	12.77	54.67	999.00	1.03	999.00	0.71	0.00
20 10		174.00	18.32	1.24	53.47	999.00		15.63	1.89		171.50	4.21	14.86	51.63	999.00	2.06	999.00	1.46	0.00
20 10		173.60	21.97	2.28	52.43	999.00		18.27	3.34		171.70	5.16	17.80	50.00	999.00	2.40	999.00	1.22	0.00
20 10		177.70 180.90	19.84	2.89 1.86	50.49 48.79	999.00 999.00		16.10 16.97	3.80 3.00		186.70 189.30	6.04 5.89	16.95 15.57	49.64	999.00 999.00	0.45 0.81	999.00 999.00	0.09 0.35	0.00
20 10 20 10		179.70	19.85 21.75	3.06	48.79		178.40	18.14	3.51		189.30	6.99	15.57	47.96 47.07	999.00	0.56	999.00	0.35	0.00
20 10		184.20	23.20	3.82	47.51		181.70	19.84	5.29		195.10	9.36	15.78	47.33	999.00	0.00	999.00	-0.35	0.00
		187.80	23.20	3.98	47.51		185.20	19.48	4.80		193.10	8.55	15.13	47.33	999.00	0.00	999.00	-0.33	0.00
		196.30	20.54	2.80		999.00		17.53		48.03			13.60		999.00		999.00	-0.04	0.00
		196.70	21.35	2.57		999.00		18.42	3.48		197.00		14.77		999.00		999.00	-0.17	0.00
		198.60	20.25	3.88		999.00		16.94	4.27		195.60		14.63		999.00		999.00	-0.05	0.00
		201.60	21.76	4.28		999.00		18.09	5.26		201.90		15.88		999.00		999.00	-0.41	0.00
		198.00	22.68	3.13		999.00		19.73	3.86		199.80		14.75		999.00		999.00	-0.35	0.00
		199.20	20.94	5.00		999.00		18.19	5.23		196.00	8.83	13.41		999.00		999.00	-0.73	0.00
		205.00	22.11	5.70		999.00		20.59			208.90	11.95	13.96		999.00		999.00	-1.40	0.00
		207.50	21.11	6.81		999.00		19.80			214.80		14.11		999.00		999.00	-1.43	0.00
20 10	6 12	210.80	21.01	6.22	56.44	999.00	206.90	19.82	7.64	56.93	217.20	12.31	15.48	58.80	999.00	-3.13	999.00	-1.88	0.00

00 10 6 10 010 50	01 50		F.C. 4.4	00000	011 50	00 56		F.C. 0.0	015 00	10 55	16.05	F0 00	00000	0 40	00000	0 04	0 00
20 10 6 13 213.50	21.53	7.11		999.00		20.56	7.90		217.90	12.75	16.25		999.00		999.00	-2.04	0.00
20 10 6 14 203.40	23.59	6.20	62.71	999.00		22.27	7.25		207.10	13.30	17.37	65.98	999.00	-3.26	999.00	-1.92	0.00
20 10 6 15 198.70	28.16	4.64	65.20	999.00		26.98	5.59		205.10	15.37	15.47	68.20	999.00	-2.78	999.00	-1.50	0.00
20 10 6 16 204.90	25.46	5.94	65.20	999.00	201.90	23.91	6.64		213.30	13.29	16.17	68.20	999.00	-2.12	999.00	-1.20	0.00
20 10 6 17 226.70	24.14	5.26	70.30	999.00	225.40	23.36	5.96		233.70	15.25	11.32	72.07	999.00	-1.77	999.00	-0.77	0.00
20 10 6 18 231.00	19.18	5.98	71.03	999.00	230.40	18.22	6.62		242.00	10.42	10.44	72.00	999.00	-0.18	999.00	0.22	0.00
20 10 6 19 245.30	16.99	3.72		999.00	246.70	14.83	4.77		252.70	6.93	9.30	70.47	999.00	0.14	999.00	0.63	0.00
20 10 6 20 239.80	13.49	2.13	69.40	999.00	234.60	11.17	2.34		215.60	3.60	11.93	67.68	999.00	2.88	999.00	2.36	0.00
20 10 6 21 220.20	15.38	3.44	68.28	999.00		13.55	4.25		209.20	3.99	9.03	64.86	999.00	4.16	999.00	3.14	0.00
20 10 6 22 207.80	19.04	1.95	64.97	999.00		15.06	2.64		200.80	3.99	13.59	61.81	999.00		999.00	2.13	0.00
20 10 6 23 205.90	20.65	1.77	63.41	999.00		16.61	2.49		204.50	4.61	14.16	59.60	999.00	3.17	999.00	1.88	0.00
20 10 6 24 202.50	21.53	2.81	61.52	999.00		17.90	3.51		199.60	6.07	13.51	59.23	999.00	1.76	999.00	1.04	0.00
20 10 7 1 208.60	24.95	2.82	60.27	999.00		21.06	3.47		210.70	9.09	14.66	58.56	999.00	1.52	999.00	0.78	0.00
20 10 7 2 215.40	25.15	2.65	59.71	999.00	209.50	21.23	4.26	59.21	213.30	8.47	13.55	58.52	999.00	1.18	999.00	0.64	0.00
20 10 7 3 217.10	24.14	3.93	60.14	999.00	214.00	20.97	4.86	59.86	219.90	10.47	11.80	59.11	999.00	0.63	999.00	0.29	0.00
20 10 7 4 215.80	26.53	4.04	60.54	999.00	212.60	23.59	5.42	60.77	221.40	13.21	11.94	60.83	999.00	-0.37	999.00	-0.19	0.00
20 10 7 5 217.60	26.85	4.44	59.85	999.00	214.20	23.73	5.36		221.50	13.20	11.95	60.07	999.00	-0.19	999.00	-0.06	0.00
20 10 7 6 216.40	27.16	3.86	59.52	999.00	211.00	24.40	4.77	59.64	218.10	12.34	12.13	59.58	999.00	-0.01	999.00	0.05	0.00
20 10 7 7 225.70	26.15	4.59	59.40	999.00		24.08	5.56		227.80	14.18	9.83	59.53	999.00	-0.19	999.00	-0.20	0.00
20 10 7 8 232.60	27.26	4.39	59.40	999.00	230.30	24.64	4.55	59.63	238.10	14.59	9.44	59.82	999.00	-0.54	999.00	-0.29	0.00
20 10 7 9 237.40	25.04	4.83	59.14	999.00	235.00	22.97	5.70	59.47	242.90	15.00	9.90	59.90	999.00	-0.88	999.00	-0.64	0.00
20 10 7 10 237.50	22.61	4.64	59.53	999.00	235.00	21.13	5.16		241.30	14.15	9.06	60.65	999.00		999.00	-0.76	0.00
20 10 7 11 243.90	22.81	5.41	61.60	999.00		21.68	6.57		244.80	15.00	11.47	63.89	999.00	-2.35	999.00	-1.52	0.00
20 10 7 12 253.70	19.09	8.85	65.42	999.00	251.70	18.16	8.78		257.30	12.73	12.82	68.32	999.00	-3.07	999.00	-1.96	0.00
20 10 7 13 282.10	21.88	9.43	68.19	999.00	281.00	21.44	9.69		287.90	15.24	14.72	71.10	999.00	-2.97	999.00	-2.36	0.00
20 10 7 14 300.30	26.16	6.10	68.94	999.00		24.25	6.84		309.60	16.36	10.94	71.95	999.00	-2.77		-2.29	0.00
20 10 7 15 286.30	23.19	9.75	69.48	999.00	285.80	22.62	10.32		294.90	16.24	16.01	72.18	999.00	-2.64	999.00	-2.21	0.00
20 10 7 16 289.30	27.25	9.02	70.95	999.00	286.50	26.29	9.12		296.00	17.69	14.24	73.65	999.00	-2.54		-1.83	0.00
20 10 7 17 295.30	24.10	6.01	70.95		293.50	22.37	6.68		305.20	14.02	12.66	73.65	999.00		999.00	-1.87	0.00
20 10 7 18 295.20	24.76	4.54	69.82		293.90	22.50	5.17		306.80	13.24	11.95	71.85	999.00	-1.63	999.00	-0.95	0.00
20 10 7 19 291.90	24.17	4.69		999.00	288.70	21.22	5.77		298.80	10.25	12.68	68.02	999.00	0.22	999.00	0.28	0.00
20 10 7 20 292.40	25.29	5.05		999.00	288.60	22.55	5.75		290.30	11.73	10.45	68.02	999.00	0.32	999.00	0.57	0.00
20 10 7 21 294.90	23.52	4.26	63.68	999.00	290.30	21.01	4.99		289.80	10.29	9.65	63.21	999.00	0.65	999.00	0.84	0.00
20 10 7 22 298.90	21.59	4.31	61.82	999.00	293.60	18.64	5.11		293.80	8.72	11.15	60.77		0.76	999.00	0.76	0.00
20 10 7 23 311.60	19.12	5.09	60.22	999.00	306.50	16.83	5.76		305.30	8.25	12.12	59.63	999.00	0.35	999.00	0.44	0.00
20 10 7 24 328.00	17.03	4.65	58.84	999.00	323.10	15.86	5.69		322.30	8.60	11.58	58.80	999.00	-0.05	999.00	0.08	0.00
20 10 8 1 336.30	17.22	3.42	58.02	999.00	332.70	16.23	5.53		337.60	9.26	8.04	58.23	999.00	-0.31	999.00	-0.20	0.00
20 10 8 2 352.10	12.33	5.43	57.16	999.00	349.10	11.98	5.18		352.20	6.88	8.34	57.49	999.00	-0.40	999.00	-0.36	0.00
20 10 8 3 14.32	7.34	7.87	56.52	999.00	7.54	6.06	10.42		243.30	2.84	29.96	55.70	999.00	2.09	999.00	2.26	0.00
20 10 8 4 17.55	2.92	23.46	55.91	999.00	354.80	2.96	16.55		209.10	3.33	16.42	51.32	999.00	5.62	999.00	5.61	0.00
20 10 8 5 276.60	6.18	3.80	55.05	999.00	270.20	10.22	1.86		248.80	2.04	15.29	48.73	999.00	6.66	999.00	5.30	0.00
20 10 8 6 289.80	6.94	1.14	53.79	999.00	287.40	8.87	1.47		233.70	2.84	6.70	47.80	999.00	6.18	999.00	5.40	0.00
20 10 8 7 295.50	4.89	1.84		999.00		6.38	1.84		229.60	2.59	4.48		999.00		999.00	6.59	0.00
20 10 8 8 289.90	6.23	2.64		999.00		6.74		54.00			6.11				999.00	7.40	0.00
20 10 8 9 301.50	5.36	3.51		999.00		6.56	2.42		224.10	2.89	7.80		999.00		999.00	6.10	0.00
20 10 8 10 259.90	4.40	8.64		999.00		3.70	13.17		221.10	3.91	15.25		999.00		999.00	2.05	0.00
20 10 8 11 220.90	6.69	6.16		999.00		6.04	8.58		236.50	5.26	12.46		999.00		999.00	-1.29	0.00
20 10 8 12 230.20	8.82	9.46		999.00		8.32	9.82		232.00	6.58	15.76		999.00		999.00	-1.78	0.00
20 10 8 13 249.40		15.54		999.00		10.95	16.56		251.10	8.68	23.17		999.00		999.00	-2.26	0.00
20 10 8 14 237.70		12.44		999.00		10.01	15.08		244.70	8.18	22.73		999.00		999.00	-2.24	0.00
20 10 8 15 262.90		20.77		999.00		9.19	21.88		260.00	7.20	29.43		999.00		999.00	-2.05	0.00
20 10 8 16 250.40	12.26	13.73	63.36	999.00	∠49.00	12.25	11.85	65.90	253.00	9.45	14.87	68.62	999.00	-2.89	999.00	-2.09	0.00

20 10 8 17 252.80	12.29 12	2.63 66.33	999.00 250.40	11.77	12.35	66 90	254.50	8.57	16.86	60 30	999.00	-3 22	999.00	-1.50	0.00
20 10 8 17 232.80		1.57 66.32	999.00 304.80	6.36	11.51		323.90	4.58	17.59	69.46	999.00	-2.77	999.00	-1.35	0.00
20 10 8 19 271.00		4.61 66.46	999.00 272.10	7.69	7.82		283.60	3.17	11.05	67.79	999.00	0.05	999.00	0.34	0.00
20 10 8 20 263.40		2.43 66.46	999.00 258.70	10.71	3.19		220.40	3.19	9.68	64.50	999.00		999.00	2.14	0.00
20 10 8 21 279.00		2.49 66.42	999.00 273.60	11.88	2.12		236.60	3.86	5.18	62.34	999.00	4.45	999.00	4.29	0.00
20 10 8 22 307.20		3.19 66.42	999.00 295.30	14.43	3.66		243.80	1.63	23.45	62.34	999.00	7.02	999.00	5.98	0.00
20 10 8 23 320.10		2.72 62.83	999.00 315.10	14.51	3.61		299.90	4.76	8.99	59.16	999.00	2.64	999.00	2.64	0.00
20 10 8 24 325.10		2.43 60.80	999.00 319.20	12.19	2.75		309.90	4.53	8.67	58.89	999.00	1.49	999.00	1.60	0.00
20 10 9 1 321.80		2.17 60.80	999.00 315.60	10.30	2.75		285.40	4.19	9.16	58.89	999.00	1.71	999.00	2.18	0.00
20 10 9 2 323.00		1.69 58.75	999.00 318.40	9.05	2.24		167.30	2.01	44.79	53.91	999.00		999.00	4.09	0.00
20 10 9 3 330.50		3.70 57.75	999.00 324.50	6.65	4.31		221.40	3.10	24.51	53.25	999.00	5.91	999.00	6.44	0.00
20 10 9 4 340.10	4.82	2.68 57.06	999.00 327.80	4.54	4.03	57.18	203.70	2.81	8.21	49.30	999.00	7.98	999.00	7.13	0.00
20 10 9 5 12.28	2.84	9.38 56.16	999.00 350.50	2.15	7.37	56.03	197.60	2.85	8.17	48.14	999.00	999.00	999.00	7.10	0.00
20 10 9 6 130.50	3.05	6.05 55.36	999.00 142.50	2.36	12.34	55.34	187.80	2.46	7.66	47.24	999.00	999.00	999.00	7.84	0.00
20 10 9 7 158.50	7.03	0.75 999.00	999.00 167.10	6.09	1.06	999.00	191.30	3.22	8.25	46.83	999.00	999.00	999.00	7.66	0.00
20 10 9 8 175.10	9.95	2.12 999.00	999.00 188.10	9.42	1.03	999.00	214.70	3.12	11.33	46.77	999.00	999.00	999.00	7.97	0.00
20 10 9 9 165.70	11.93	1.83 57.09	999.00 160.20	10.39	2.24	56.01	158.60	1.88	24.98	48.50	999.00	7.25	999.00	7.44	0.00
20 10 9 10 172.70	13.42	3.76 55.93	999.00 160.90	10.29	5.11	54.49	161.40	4.95	17.39	53.38	999.00	-0.60	999.00	-0.17	0.00
20 10 9 11 183.30	9.35	8.34 56.34	999.00 176.40	8.86	9.05		186.00	5.82	18.93	59.23	999.00	-3.44	999.00	-0.29	0.00
20 10 9 12 197.10	13.12	7.16 61.82	999.00 194.00	12.50	9.12	62.25	205.90	7.73	19.39	65.12	999.00	-3.31	999.00	-1.34	0.00
20 10 9 13 196.10		8.61 67.16	999.00 193.90	12.99	8.87		203.00	8.90	18.49	70.54	999.00	-3.31	999.00	-1.36	0.00
20 10 9 14 196.60		8.41 67.16	999.00 195.70	14.51	9.01		205.00	9.27	17.68	70.54	999.00	-3.44		-1.48	0.00
20 10 9 15 194.40		4.91 73.52	999.00 192.30	19.18	5.97		199.50	10.68	17.72	76.88	999.00	-3.20	999.00	-1.36	0.00
20 10 9 16 191.90		9.20 75.50	999.00 189.30	17.53	9.53		202.00	10.24	18.93	78.50	999.00	-2.76	999.00	-1.33	0.00
20 10 9 17 185.40		5.62 75.50	999.00 182.40	22.75	5.96		194.50	13.24	16.07	78.50	999.00	-2.36	999.00	-0.64	0.00
20 10 9 18 187.30		5.92 77.10	999.00 185.00	18.19	6.71		195.80	10.02	14.63	78.75	999.00	-1.08	999.00	-0.27	0.00
20 10 9 19 178.80		3.34 77.03	999.00 174.30	14.62	4.24		179.70	5.15	15.80	77.00	999.00	0.85	999.00	0.98	0.00
20 10 9 20 177.50 20 10 9 21 183.30		3.66 75.41 4.23 72.11	999.00 173.50	19.79	4.41 5.21		185.10 191.50	7.91 9.68	14.66 15.48	74.22 71.72	999.00	0.81	999.00	0.52	0.00
20 10 9 21 163.30		4.40 70.38	999.00 180.50 999.00 187.90	20.78 22.04	4.75		191.30	10.22	15.40	70.49	999.00	0.21 -0.20	999.00 999.00	0.09 -0.14	0.00
20 10 9 22 190.20		3.86 68.52	999.00 188.50	24.14	4.73		190.40	11.30	15.13	68.67	999.00	-0.20	999.00	-0.14	0.00
20 10 9 23 192.10		4.53 67.13	999.00 194.40	24.14	5.83		204.10	10.58	16.67	67.23	999.00	0.12	999.00	-0.10	0.00
20 10 10 1 209.30		3.98 66.99	999.00 206.10	22.86	5.30		215.70	10.85	13.47	66.66	999.00	0.31	999.00	0.17	0.00
20 10 10 2 211.30		3.12 66.07	999.00 206.10	20.16	3.94		213.80	8.55	14.73	65.27	999.00	1.28	999.00	0.66	0.00
20 10 10 3 214.80		2.33 66.00	999.00 205.50	20.30	2.87		204.60	7.73	13.27	64.22	999.00	2.36	999.00	1.46	0.00
20 10 10 4 211.20		3.92 65.48	999.00 205.50	21.11	4.80		211.20	8.56	15.19	63.84	999.00	1.16	999.00	0.62	0.00
20 10 10 5 216.40		3.56 65.85	999.00 212.60	22.18	4.42		216.80	11.47	13.07	65.20	999.00	0.12	999.00	0.08	0.00
20 10 10 6 217.40		4.23 65.92	999.00 212.70	22.66	5.31		219.00	11.57	12.26	66.00	999.00	-0.08	999.00	-0.07	0.00
20 10 10 7 208.90	24.41	5.07 65.21	999.00 205.00	21.75	5.64	65.42	212.00	10.87	15.05	65.52	999.00	-0.44	999.00	-0.18	0.00
20 10 10 8 214.90	25.83	5.39 64.20	999.00 210.40	23.13	6.40	64.41	217.70	11.92	12.66	64.48	999.00	-0.25	999.00	-0.21	0.00
20 10 10 9 216.80	25.91	5.60 64.26	999.00 212.50	23.31	6.50	64.52	219.20	12.42	11.62	64.79	999.00	-0.71	999.00	-0.41	0.00
20 10 10 10 215.50	26.32	5.39 65.44	999.00 212.10	24.95	5.91	65.84	217.80	15.22	12.80	67.14	999.00	-2.07	999.00	-1.13	0.00
20 10 10 11 219.60			999.00 216.60	26.54	5.88		227.40	18.76	10.31		999.00		999.00	-1.45	0.00
20 10 10 12 223.10	27.02	5.63 68.81	999.00 220.30	26.36	6.27	69.30	228.60	17.68	11.50	71.50	999.00	-2.74	999.00	-1.67	0.00
20 10 10 13 221.80	25.98	4.72 70.07	999.00 219.20	24.93	5.88	70.56	229.10	16.54	11.71	72.98	999.00	-3.07	999.00	-1.90	0.00
20 10 10 14 221.00			999.00 218.80	23.51	7.91		230.00	16.07	12.90		999.00		999.00	-2.10	0.00
20 10 10 15 227.60			999.00 226.00	23.82	4.78		235.80	17.47	9.71		999.00		999.00	-1.50	0.00
20 10 10 16 216.70			999.00 213.80	22.58	7.60		223.70	14.75	12.08		999.00		999.00	-1.47	0.00
20 10 10 17 224.00			999.00 222.10	20.59	4.40		228.50	13.36	10.08		999.00		999.00	-0.76	0.00
20 10 10 18 236.30			999.00 235.80	16.38	5.18		244.20	9.92	10.21		999.00		999.00	-0.58	0.00
20 10 10 19 257.10			999.00 256.20		4.94		261.50	7.06	9.11		999.00		999.00	-0.44	0.00
20 10 10 20 273.50	10.08	3.04 71.96	999.00 272.40	8.93	2.24	12.24	267.50	3.99	9.53	/2.10	999.00	0.45	999.00	0.44	0.00

00 10 10 01 004 00	0 55	11 50 60	000 00		6 00	10 00		010 00	1	F 0 00	60 00	000 00	0 40	00000	0.46	0 00
20 10 10 21 334.20	8.57 9.			332.20	6.89	12.07		313.90	1.66	53.22		999.00		999.00	0.46	0.00
20 10 10 22 43.21	21.43 5.		999.00	40.54	17.67	6.60	67.09	45.10	15.59	11.21	67.05	999.00	-2.18	999.00	-1.14	0.00
20 10 10 23 56.43	18.05 6.		999.00	53.62	17.36	7.82	59.13	63.29	12.65	12.02	60.32	999.00	-1.54	999.00	-1.02	0.00
20 10 10 24 60.75	21.09 2.		999.00	57.43	20.63	3.84	58.85	67.57	12.13	11.55	59.83	999.00	-1.44	999.00	-1.01	0.00
20 10 11 1 44.73	18.27 5.	56 58.37	999.00	42.13	15.96	6.35	58.85	49.55	12.13	11.65	59.93	999.00	-1.65	999.00	-1.14	0.00
20 10 11 2 55.82	17.47 5.	75 57.40	999.00	51.79	16.58	7.08	57.89	58.99	12.04	10.85	59.01	999.00	-1.54	999.00	-1.09	0.00
20 10 11 3 49.10	17.22 6.	12 57.02	999.00	46.35	16.56	6.29	57.51	56.09	12.96	11.19	58.63	999.00	-1.62	999.00	-1.13	0.00
20 10 11 4 54.38	18.37 4.	78 56.62	999.00	50.96	18.08	5.52	57.09	59.20	12.17	10.59	58.06	999.00	-1.30	999.00	-0.96	0.00
20 10 11 5 62.69	19.61 3.	29 57.06	999.00	59.53	18.25	4.90	57.51	68.66	12.10	10.42	58.50	999.00	-1.45	999.00	-1.03	0.00
20 10 11 6 69.95	19.97 4.	20 57.74	999.00	66.71	19.20	5.18	58.19	71.50	12.13	11.57	59.15	999.00	-1.37	999.00	-0.97	0.00
20 10 11 7 68.52	18.62 4.		999.00	65.63	18.24	5.33	58.74	71.70	11.32	12.19	59.72	999.00	-1.42	999.00	-0.99	0.00
20 10 11 8 65.56	19.78 3.		999.00	62.85	19.39	4.31	58.96	68.53	12.71	10.03	59.92	999.00	-1.46	999.00	-0.99	0.00
20 10 11 9 62.19	22.09 3.		999.00	59.38	20.55	4.81	58.81	69.22	12.62	12.09	59.85	999.00	-1.59	999.00	-1.09	0.00
20 10 11 10 64.45	21.24 4.		999.00	62.13	20.17	5.95	58.86	70.20	13.86	10.84	60.13	999.00	-1.87	999.00	-1.27	0.00
20 10 11 10 04.43	20.26 5.		999.00	60.41	19.57	7.05	58.96	70.50	12.39	12.25	60.64	999.00	-2.48	999.00	-1.58	0.00
						8.07	58.85		13.31	12.23	61.31					0.00
			999.00	72.20	21.57			77.80				999.00	-2.87	999.00	-2.12	
20 10 11 13 74.30	22.15 4.		999.00	70.70	21.72	5.61	58.76	77.90	13.26	13.55	61.44	999.00	-3.42	999.00	-2.26	0.00
20 10 11 14 62.23	21.44 4.		999.00	58.26	20.31	6.48	59.26	66.09	14.10	13.44	61.95	999.00	-3.20	999.00	-2.10	0.00
20 10 11 15 60.61	23.52 3.		999.00	56.83	22.59	5.86	59.28	66.97	15.29	12.83	62.10	999.00	-3.22	999.00	-1.89	0.00
20 10 11 16 72.20	24.40 3.		999.00	70.40	24.28	4.77	59.18	79.20	14.08	14.65	61.68	999.00	-3.35	999.00	-2.31	0.00
20 10 11 17 65.41	26.04 3.		999.00	62.64	25.31	4.75	58.13	71.00	16.17	11.62	60.26	999.00	-2.08	999.00	-1.43	0.00
20 10 11 18 64.71	25.18 3.	24 57.39	999.00	61.56	24.39	5.21	57.90	69.84	15.36	10.61	59.31	999.00	-1.84	999.00	-1.25	0.00
20 10 11 19 63.22	21.47 4.	24 57.61	999.00	60.05	20.22	5.51	58.09	68.72	13.94	11.13	59.27	999.00	-1.62	999.00	-1.13	0.00
20 10 11 20 67.28	21.34 4.	93 58.08	999.00	64.52	20.45	6.21	58.56	67.65	14.22	10.36	59.64	999.00	-1.54	999.00	-1.07	0.00
20 10 11 21 68.92	23.93 3.	73 58.50	999.00	66.20	22.72	4.88	58.98	71.90	13.73	11.88	60.00	999.00	-1.46	999.00	-1.01	0.00
20 10 11 22 71.30	22.41 4.	01 58.50	999.00	68.53	21.25	5.13	58.98	72.40	12.28	12.42	60.00	999.00	-1.42	999.00	-0.94	0.00
20 10 11 23 79.70	25.40 4.	23 58.75	999.00	76.70	23.76	5.28	59.23	84.20	12.40	14.41	60.19	999.00	-1.45	999.00	-1.00	0.00
20 10 11 24 78.40	23.77 4.	37 58.97	999.00	76.20	22.59	5.14	59.45	83.80	12.74	13.31	60.43	999.00	-1.49	999.00	-1.01	0.00
20 10 12 1 76.00	20.09 4.	14 58.83	999.00	72.70	19.48	4.99	59.30	79.90	9.81	14.36	60.33	999.00	-1.48	999.00	-1.01	0.00
20 10 12 2 78.20	20.50 4.	12 58.96	999.00	75.10	19.40	4.82	59.43	83.80	9.86	13.29	60.30	999.00	-1.21	999.00	-0.77	0.00
20 10 12 3 71.60	19.23 3.			67.56	17.76	4.52	59.60	71.20	10.18	10.69	60.21	999.00	-1.03	999.00	-0.69	0.00
20 10 12 4 82.50	14.99 3.			78.70	13.19	5.02	59.90	87.20	5.76	16.15	60.39	999.00	-0.89	999.00	-0.53	0.00
20 10 12 5 90.20	17.37 1		999.00	86.30	15.17	2.78	60.01	94.30	5.76	12.84	60.20	999.00	-0.30	999.00	-0.20	0.00
20 10 12 6 103.30	14.43 2.			96.60	13.25	4.53		106.10	5.35	14.99	60.64	999.00	-1.01	999.00	-0.74	0.00
20 10 12 7 105.80	14.64 2.			97.50	13.23	3.43		102.80	5.56	13.68	60.76	999.00	-0.58	999.00	-0.51	0.00
20 10 12 7 103.00	14.66 2.			105.40	13.23	4.31		111.60	5.76	15.12	60.86	999.00	-1.11	999.00	-0.80	0.00
20 10 12 0 110.30	13.67 4.			109.40	11.89	5.34		116.40	6.06	14.92	61.25	999.00	-1.87	999.00	-1.03	0.00
20 10 12 9 113.00				105.40		6.12		110.40		12.81	62.32	999.00	-2.15	999.00		0.00
	11.40 5.				10.48				5.95						-1.39	
20 10 12 11 135.80	9.34 9.		999.00 1		8.97	11.66		122.30	5.46	19.24	64.31	999.00	-3.63	999.00	-1.46	0.00
20 10 12 12 149.10		40 65.90	999.00 1		12.81	6.59		144.40	7.37	21.06	69.26	999.00	-3.49	999.00	-1.41	0.00
20 10 12 13 163.00	13.77 9.		999.00 1		13.49	9.48		173.50	7.40	25.01	72.65	999.00	-3.51	999.00	-1.19	0.00
20 10 12 14 163.70	17.05 7.		999.00 1		16.66	7.50		174.40	7.86	22.33	72.77	999.00	-1.94	999.00	-0.97	0.00
20 10 12 15 167.40		62 999.00			15.85		999.00		7.28	20.22		999.00		999.00	-0.86	0.00
20 10 12 16 165.10	20.39 4.		999.00 1		19.76	5.00	71.25			20.78		999.00	-1.83	999.00	-1.01	0.00
20 10 12 17 163.70	20.05 5.	85 72.10	999.00 1	161.50	19.46	7.09	72.58	174.80	8.66	20.89	74.10	999.00	-1.53	999.00	-0.76	0.00
20 10 12 18 186.60	22.38 5.	68 72.90	999.00 1	184.30	20.75	6.23	73.35	197.40	10.88	16.65	74.18	999.00	-1.22	999.00	-0.76	0.00
20 10 12 19 199.00	20.08 5.	96 72.37	999.00 1	195.90	18.27	7.73		205.70	9.35	14.82	73.47	999.00	-1.05	999.00	-0.68	0.00
20 10 12 20 176.90	20.14 6.	51 71.14	999.00 1	174.60	18.52	6.88	71.51	187.70	8.36	18.92	71.95	999.00	-0.37	999.00	-0.29	0.00
20 10 12 21 172.90	20.19 5.	09 70.39	999.00 1	169.50	18.11	5.78	70.71	179.90	7.97	18.75	71.07	999.00	-0.81	999.00	-0.58	0.00
20 10 12 22 282.60	28.30 5.		999.00 2		27.03	5.74	65.74	282.80	17.99	9.61	66.06	999.00	-0.54	999.00	-0.84	0.15
20 10 12 23 272.70			999.00 2		19.82	9.40		276.00	12.12	12.68		999.00		999.00	-3.56	0.09
20 10 12 24 275.40			999.00 2		21.95	7.16		274.60		11.55		999.00		999.00	-1.28	0.01
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20 10 12 1 200 1	0 04 70	7 75	E2 02	000 00	276 60	22 00	0 25	E2 0E	279.90	1 = 10	10 10	E4 20	999.00	1 20	000 00	0 00	0 00
20 10 13 1 280.1		7.75	52.92			23.09	8.35		310.60	15.10	12.10				999.00	-0.98	0.00
20 10 13 2 307.4 20 10 13 3 310.7		6.86	53.35	999.00	304.20	28.98	7.80			18.12	11.70	53.39	999.00	0.42	999.00	-0.66	0.00
		5.76	52.36	999.00	307.30	25.25	6.70		311.10	16.23	10.75	53.15	999.00	-0.90	999.00	-1.63	0.00
20 10 13 4 308.1		5.30	51.73	999.00	306.40	18.35	5.80		310.20	11.74	11.52	52.62	999.00	-0.92	999.00	-1.43	0.00
20 10 13 5 283.2		6.68	50.61	999.00	271.80	10.78	5.60		248.90	5.69	6.24	50.20	999.00	1.00	999.00	0.10	0.00
20 10 13 6 250.5		5.78	49.46	999.00	232.90	8.99	3.95		214.60	4.67	10.97	48.00	999.00	2.26	999.00	0.98	0.00
20 10 13 7 246.5		4.70	48.67	999.00	227.70	10.61	2.26		212.50	4.57	11.44	46.31	999.00	2.85	999.00	1.41	0.00
20 10 13 8 248.5		5.32	47.38	999.00	231.50	11.27	4.78		210.90	5.63	11.86	45.44	999.00	1.73	999.00	0.42	0.00
20 10 13 9 255.8		6.30	47.31	999.00	232.30	9.56	5.70		218.10	5.59	10.95	45.58	999.00	0.12	999.00	-0.69	0.00
20 10 13 10 238.7		7.31	46.36	999.00	226.90	8.10	7.33		223.60	6.37	10.17	48.22	999.00	-2.58	999.00	-1.50	0.00
20 10 13 11 254.1		11.56	50.20	999.00	244.30	7.52	11.30		233.00	6.51	15.65	53.10	999.00	-3.17	999.00	-1.69	0.00
20 10 13 12 242.1		22.51	54.91	999.00	237.40	7.05	21.32		236.70	5.65	24.08	58.46	999.00	-3.88	999.00	-1.74	0.00
20 10 13 13 208.6		10.45	58.15	999.00	206.20	7.76	11.44		219.30	6.39	20.80	61.99	999.00	-3.90	999.00	-1.65	0.00
20 10 13 14 215.5		12.28	60.95	999.00	216.20	10.41	14.71	61.45	230.60	8.72	21.17	64.69	999.00	-3.49	999.00	-1.78	0.00
20 10 13 15 217.7		7.17	62.00	999.00	215.30	14.96	7.68	62.54		10.32	15.37	65.77	999.00	-3.76	999.00	-2.14	0.00
20 10 13 16 219.6		10.55	62.88	999.00	217.50	15.13	10.49		222.60	9.91	17.19	66.28	999.00	-3.32	999.00	-2.21	0.00
20 10 13 17 226.3		10.32	63.80	999.00	225.40	15.89	10.46	64.32	234.40	11.15	15.17	67.04	999.00	-2.97	999.00	-1.40	0.00
20 10 13 18 212.6		4.03	64.29	999.00	210.60	16.94	5.32		218.70	9.98	12.86	66.67	999.00	-2.01	999.00	-0.77	0.00
20 10 13 19 212.8		2.93	64.10	999.00	210.50	15.98	4.15		215.10	7.17	13.44	65.06	999.00	-0.09	999.00	0.38	0.00
20 10 13 20 202.8		2.61	63.27	999.00	196.80	16.24	3.42		193.80	5.70	12.37	61.48	999.00	2.47	999.00	1.95	0.00
20 10 13 21 206.9		5.27	62.15	999.00	203.10	18.96	7.30		214.20	7.30	15.22	59.46	999.00	2.36	999.00	1.33	0.00
20 10 13 22 214.2		1.63	60.41	999.00	208.10	16.75	2.51		206.70	5.58	12.74	58.24	999.00	2.75	999.00	1.65	0.00
20 10 13 23 205.0		2.03	59.45	999.00	198.10	19.02	2.82		201.20	5.46	12.83	56.25	999.00	2.93	999.00	1.78	0.00
20 10 13 24 205.8		2.83	57.75	999.00	199.50	19.06	4.15		206.40	6.41	14.16	55.25	999.00	2.30	999.00	1.08	0.00
20 10 14 1 230.1		3.49	56.68	999.00	227.30	15.63	4.40		230.70	7.12	9.50	54.73	999.00	2.15	999.00	1.28	0.00
20 10 14 2 246.9		2.96	55.51	999.00	242.30	18.36	4.04		247.10	9.95	9.46	54.50	999.00	0.57	999.00	0.32	0.00
20 10 14 3 273.9		3.26	55.00	999.00	262.90	17.77	3.53		262.60	7.18	9.24	52.83	999.00	3.28	999.00	1.84	0.00
20 10 14 4 312.7		1.11	55.77	999.00	304.80	16.32	1.72		282.40	5.42	5.53	50.56	999.00	7.21	999.00	6.70	0.00
20 10 14 5 302.6		1.67	56.12	999.00	291.60	14.37	1.19		264.00	3.63	8.40	49.94	999.00	6.03	999.00	4.93	0.00
20 10 14 6 284.3		1.88	54.98	999.00	262.70	9.56	4.72		187.20	2.74	19.73	49.01	999.00	4.95	999.00	3.27	0.00
20 10 14 7 296.0		3.25	53.51	999.00	273.30	9.92	5.56		165.20	1.97	26.40	47.76	999.00	5.77	999.00	3.85	0.00
20 10 14 8 297.2		3.70	53.41	999.00	277.90	9.38	3.24		187.70	2.66	15.30	45.84	999.00	7.99	999.00	6.95	0.00
20 10 14 9 296.7		2.57	53.40	999.00	277.70	8.16	1.54		235.00	3.54	6.22	46.54	999.00	5.85	999.00	5.16	0.00
20 10 14 10 280.9		4.97	53.31	999.00	272.90	6.03	5.40		232.40	3.95	14.66	49.28	999.00	2.92	999.00	2.86	0.00
20 10 14 11 208.3		2.53	53.45	999.00	220.60	6.28	4.70		209.40	4.00	14.78	51.23	999.00	1.36	999.00	0.92	0.00
20 10 14 12 182.9		6.92	53.83	999.00	182.20	6.95	6.64		197.10	4.49	19.75	54.67	999.00	-2.02	999.00	-0.82	0.00
20 10 14 13 166.0		8.24	54.33	999.00	163.80	6.97	9.26		180.40	4.55	22.03	56.45	999.00	-2.15	999.00	-1.08	0.00
20 10 14 14 172.7		6.46	55.48	999.00		10.49	6.24		179.90	5.79	19.18	57.69	999.00	-2.09	999.00	-0.96	0.00
20 10 14 15 184.1		13.21	56.49	999.00	184.80	9.69	13.90		205.50	5.43	19.05	57.95	999.00	-1.35	999.00	-0.81	0.00
20 10 14 16 150.6		8.62	58.42	999.00		14.04	8.36		149.20	7.55	18.18	60.57	999.00	-2.69	999.00	-1.48	0.00
20 10 14 17 154.4		6.49	61.34		152.60	17.93	6.20		155.10	7.72	19.99	63.48	999.00	-2.04	999.00	-0.95	0.00
20 10 14 18 154.5		4.22	62.75		150.60	17.20	5.29		156.00	6.49	19.02	63.85	999.00	-0.52	999.00	-0.17	0.00
20 10 14 19 150.9		4.18	63.60	999.00		20.44	4.97		152.50	7.66	17.31		999.00	0.01	999.00	0.13	0.00
20 10 14 20 156.5		4.76		999.00		24.73	5.86		160.10				999.00			-0.19	0.00
20 10 14 21 166.8		4.15		999.00		25.31	4.82		175.80		19.17		999.00		999.00	0.06	0.00
20 10 14 22 176.6		5.15		999.00		29.05	5.97		186.50	15.04	16.24		999.00		999.00	-0.25	0.00
20 10 14 23 182.5		5.70		999.00		26.95	6.06		192.50		15.18		999.00		999.00	-0.19	0.00
20 10 14 24 186.8		6.14		999.00		31.89	6.48		196.10		15.68		999.00		999.00	-0.40	0.00
20 10 15 1 191.3		4.94		999.00		27.94	5.22		199.70		15.65		999.00		999.00	-0.28	0.00
20 10 15 2 194.1		4.04		999.00		26.36	4.78		198.60	11.90	15.69		999.00		999.00	0.04	0.00
20 10 15 3 201.6		5.10		999.00		22.87	5.33		204.00		15.23		999.00		999.00	0.62	0.00
20 10 15 4 216.3	0 29.39	6.47	66.04	999.00	212.60	26.35	7.82	66.09	221.40	15.05	13.66	65.51	999.00	0.16	999.00	0.01	0.00

20 10 15 5 220.00	24.42	4.35		999.00		22.35	5.85		225.60	14.55	10.39		999.00		999.00	-0.34	0.00
20 10 15 6 223.40	25.11	4.34	64.33		221.70	22.75	5.03		229.50	12.60	9.47	63.64	999.00	2.22	999.00	1.74	0.03
20 10 15 7 225.00	24.22	3.41	62.32	999.00	223.00	21.07	4.31	62.13	230.90	10.44	9.70	57.06	999.00	4.15	999.00	3.74	0.00
20 10 15 8 228.50	24.46	3.50	61.38	999.00	226.00	21.55	3.99	61.32	231.30	11.79	9.07	59.30	999.00	1.38	999.00	1.44	0.00
20 10 15 9 258.50	26.23	6.39	60.54	999.00	255.80	23.89	7.66	60.80	261.30	14.83	11.46	60.13	999.00	-0.28	999.00	0.48	0.00
20 10 15 10 236.50	26.29	4.90	55.47	999.00	234.90	24.32	6.03	55.85	245.10	15.60	9.43	55.39	999.00	1.29	999.00	0.43	0.04
20 10 15 11 213.30	26.67	4.79	50.31		210.20	24.28	5.72	50.97	215.90	13.11	14.77	50.45	999.00	-0.91	999.00	-0.15	0.03
20 10 15 12 208.30	27.84	5.55	48.57	999.00	204.80	25.17	6.11	49.86	213.50	14.06	13.70	49.78	999.00	-1.14	999.00	0.82	0.04
20 10 15 13 205.90	26.17	5.01	48.87	999.00	203.20	23.48	6.37		213.40	12.74	14.20	49.94	999.00	-0.89	999.00	0.70	0.02
20 10 15 14 210.20	25.58	5.08	48.66		207.00	23.49	6.07		215.90	13.74	13.20	49.82	999.00	-1.00	999.00	-0.22	0.00
20 10 15 15 233.60	19.30	6.44	48.56	999.00	232.70	18.20	7.74		239.30	12.14	12.11	49.95	999.00	-1.55	999.00	-1.60	0.02
20 10 15 16 225.40	19.47	4.42	48.56			17.69	4.69		227.80	11.91	10.05	49.95	999.00	-1.78	999.00	-2.17	0.00
20 10 15 10 225.40	17.45	4.44	48.56	999.00		15.45	5.11		221.00	7.95	13.20	50.35	999.00	-1.50	999.00	-1.81	0.00
20 10 15 17 210.00	18.68	4.07	49.08		214.90	16.75	5.63		220.40	9.09	12.19	50.38	999.00	-1.24	999.00	-1.63	0.00
20 10 15 19 229.70	15.47	4.25	49.08		228.00	14.17	5.34		234.10	8.67	9.76	50.38	999.00	-1.13	999.00	-1.34	0.00
20 10 15 20 233.30	12.27	3.77	48.26		230.50	11.57	4.69		236.50	8.03	10.67	48.94	999.00	-0.50	999.00	-1.30	0.00
20 10 15 21 234.20	14.30	3.60		999.00	230.60	12.42	4.33		229.10	7.60	9.39	48.48	999.00	-0.83	999.00	-1.05	0.00
20 10 15 22 245.30	15.16	3.58	47.37		241.00	12.30	4.89		248.80	6.93	9.23	48.09	999.00	-0.29	999.00	-0.69	0.00
20 10 15 23 239.60	13.69	5.76	47.56		228.60	11.30	5.30		216.80	4.94	10.74	47.10	999.00	1.30	999.00	-0.01	0.00
20 10 15 24 239.40	15.97	2.27	46.55	999.00	229.60	13.17	3.47		221.20	5.20	10.16	45.25	999.00	1.54	999.00	0.29	0.00
20 10 16 1 263.90	18.91	4.72	45.78	999.00	256.60	15.74	6.11		251.90	7.55	9.60	44.28	999.00	1.09	999.00	0.39	0.00
20 10 16 2 298.70	16.01	8.29	45.32	999.00	290.40	14.86	8.27		273.50	7.56	9.28	43.92	999.00	1.80	999.00	1.46	0.00
20 10 16 3 314.60	16.31	7.08	45.96		312.30	15.61	7.42		315.60	9.77	10.00	45.31	999.00	-0.51	999.00	-0.37	0.00
20 10 16 4 315.80	16.52	3.86	45.96	999.00	312.70	16.07	5.26	46.18	317.30	9.47	11.78	45.31	999.00	-0.79	999.00	-0.40	0.00
20 10 16 5 321.20	10.85	7.52	44.70	999.00	316.30	9.70	8.83	45.07	291.70	4.40	19.89	44.63	999.00	0.48	999.00	0.85	0.00
20 10 16 6 303.50	6.72	9.87	44.02	999.00	291.60	6.56	9.54	44.17	236.20	5.46	4.40	41.90	999.00	2.76	999.00	2.59	0.00
20 10 16 7 263.70	9.74	3.02	43.05	999.00	250.90	9.15	4.34	42.07	187.30	3.00	20.31	39.36	999.00	3.61	999.00	2.42	0.00
20 10 16 8 244.50	8.58	1.98	42.80	999.00	242.70	9.66	1.74	42.53	222.00	4.75	10.28	38.48	999.00	4.14	999.00	3.89	0.00
20 10 16 9 222.30	9.71	2.03	42.59	999.00	225.30	10.06	2.91	42.45	224.10	5.64	8.98	39.04	999.00	2.71	999.00	2.88	0.00
20 10 16 10 192.10	11.13	4.48	42.76	999.00	190.30	8.86	7.53	42.33	207.70	4.12	17.65	42.50	999.00	-1.53	999.00	-0.40	0.00
20 10 16 11 204.10	11.86	5.88	43.77	999.00	201.20	11.68	6.16		209.70	7.66	16.18	47.26	999.00	-3.85	999.00	-1.73	0.00
20 10 16 12 218.90	12.56	9.11	45.71		219.10	12.25	9.94		230.20	10.00	13.00	49.46	999.00	-3.84	999.00	-1.87	0.00
20 10 16 13 236.20	16.71	10.06	47.23		235.50	15.99	11.61		243.10	11.61	17.32	50.86	999.00	-3.48	999.00	-2.10	0.00
20 10 16 14 229.00	15.99	8.98	48.47		227.60	15.30	10.01		235.60	11.49	14.07	51.96	999.00	-3.32	999.00	-2.06	0.00
20 10 16 15 241.50	14.07	11.77	49.74		242.30	13.74	14.08		247.00	10.96	18.66	53.21	999.00	-3.60	999.00	-2.32	0.00
20 10 16 16 226.40	16.21	5.99	50.51		225.10	15.75	6.90		232.20	11.62	11.71		999.00		999.00	-2.14	0.00
20 10 16 17 234.00	13.65	6.92	51.22		231.90	13.11	7.47		234.80	9.37	11.17	54.48	999.00	-3.17	999.00	-1.42	0.00
20 10 16 17 234.00	15.68	7.71	51.77		225.40	15.55	7.91		233.70	11.24	14.12	54.33	999.00	-2.30	999.00	-1.03	0.00
20 10 16 19 215.60	14.49	3.54	51.56	999.00		13.21	4.21		211.60	5.61	12.02	52.72	999.00	-0.13	999.00	0.41	0.00
20 10 16 19 213.00			51.02				1.82		200.40		11.20						0.00
	14.98	1.49		999.00		12.88				4.11		49.48	999.00	1.76	999.00	1.57	
20 10 16 21 205.10	16.44	2.68	50.67	999.00		15.12	3.36		173.80	4.01	11.48	47.29	999.00	4.06	999.00	3.29	0.00
20 10 16 22 201.60	20.08	1.90	50.25	999.00		17.46	1.74		184.00	5.14	8.90	45.67	999.00	4.77	999.00	3.23	0.00
20 10 16 23 193.30	22.37	1.67		999.00		18.17	1.85		181.90	4.32	13.14		999.00		999.00	2.47	0.00
20 10 16 24 192.60	22.79	1.55		999.00		18.17	1.89		190.20				999.00	4.08		1.99	0.00
20 10 17 1 198.90	24.05	4.45		999.00		19.31	5.61		196.50	6.83	15.59		999.00		999.00	1.98	0.00
20 10 17 2 205.70	17.54	2.37		999.00		14.94	2.82		205.40	5.60	12.94		999.00		999.00	0.88	0.00
20 10 17 3 202.60	21.70	2.10		999.00		17.97	2.29		194.80	6.14	14.78		999.00		999.00	1.42	0.00
20 10 17 4 211.20	23.12	2.14		999.00		18.80	2.99		210.10	6.04	14.09		999.00		999.00	1.35	0.00
20 10 17 5 218.80	19.66	2.00		999.00		15.13	3.53		210.20	4.77	13.65		999.00		999.00	1.17	0.00
20 10 17 6 217.50	20.34	1.96		999.00		16.83	3.11		208.20	6.22	11.01		999.00		999.00	1.43	0.00
20 10 17 7 222.30	21.12	2.17		999.00		17.76	3.57	39.93	219.20	6.76	12.65		999.00	1.60	999.00	0.65	0.00
20 10 17 8 229.70	17.85	2.71	40.08	999.00	226.40	14.14	4.06	39.49	228.70	7.64	8.30	38.86	999.00	0.82	999.00	0.12	0.00

20 10 17 9	224 00	16.44	3.33	39.49	999.00	230.30	13.47	4.65	20 24	224.70	7.47	9.47	20 25	999.00	0 40	999.00	-0.27	0.00
20 10 17 3		11.63	6.79	39.49	999.00	230.30	10.99	6.40		237.90	8.78	11.11	41.44		-2.63	999.00	-1.45	0.00
20 10 17 10		8.07	7.36	41.40	999.00	224.60	7.88	9.17		231.70	6.67	14.00	44.81	999.00	-3.98	999.00	-1.43	0.00
20 10 17 12		7.77	11.53	44.59	999.00	235.70	7.67	12.25		238.90	6.58	19.76	48.51		-3.95	999.00	-1.68	0.00
20 10 17 13		9.86	10.73	47.54	999.00	228.90	9.69	10.17		235.80	7.99	14.75	51.39	999.00	-3.74	999.00	-2.06	0.00
20 10 17 14		8.95	14.10	49.90	999.00	221.10	8.72	17.28		228.80	7.21	22.18	53.85	999.00	-3.97	999.00	-1.80	0.00
20 10 17 15		12.23	10.89	52.30	999.00	196.80	11.78	12.07		210.10	8.75	17.94	56.23	999.00	-3.98	999.00	-1.82	0.00
20 10 17 16		14.09	9.56	54.29	999.00	183.20	13.44	10.38		192.20	8.22	19.55	57.88	999.00		999.00	-1.45	0.00
20 10 17 17		12.57	7.78	55.60	999.00	167.70	12.17	7.62		179.10	6.73	19.46	57.89	999.00	-1.77	999.00	-0.92	0.00
20 10 17 18		14.70	4.51	56.40		163.00	13.53	5.23		174.40	5.40	20.51	57.75	999.00	-1.10	999.00	-0.57	0.00
20 10 17 19		18.42	3.08	56.33	999.00	150.90	16.02	4.51		153.80	6.08	18.16	56.65	999.00	-0.04	999.00	-0.02	0.00
20 10 17 20		24.91	4.64	55.89	999.00	154.20	22.29	5.74		164.80	9.33	18.47	56.17	999.00	-0.54	999.00	-0.38	0.00
20 10 17 21		21.83	4.33	55.50	999.00		19.94	5.04		172.20	8.15	20.50	56.13	999.00	-0.65	999.00	-0.46	0.00
20 10 17 22		22.23	5.12	54.98	999.00	159.00	20.32	5.28		161.50	8.24	17.99	55.44	999.00	-0.17	999.00	-0.37	0.00
20 10 17 23		23.42	3.82	54.13	999.00		20.30	5.33		158.50	7.87	19.43	54.30	999.00	-0.13	999.00	-0.22	0.00
20 10 17 24		18.39	3.99	53.99	999.00	165.40	16.30	4.57		175.40	5.73	19.28	54.25	999.00	-0.27	999.00	-0.25	0.00
20 10 18 1		23.18	4.85	53.83	999.00	167.00	21.22	5.24		176.30	8.79	18.20	53.98	999.00	-0.39	999.00	-0.41	0.00
20 10 18 2		21.71	4.64	999.00	999.00		19.85	5.75		188.60	10.13	16.01	54.81	999.00	-0.81	999.00	-0.62	0.00
20 10 18 3		19.16	4.84	53.80	999.00		17.49	5.52		193.40	8.39	15.51	54.57	999.00	-0.75	999.00	-0.55	0.00
20 10 18 4		19.92	4.43	53.30	999.00		17.59	5.35		184.60	8.58	13.76	53.99	999.00	-0.65	999.00	-0.44	0.00
20 10 18 5		20.23	4.07	52.86	999.00		18.24	5.15		183.40	8.18	16.63	53.51	999.00	-0.61	999.00	-0.51	0.00
20 10 18 6		19.74	4.24	52.57	999.00		18.01	5.29		184.90	8.65	15.96	53.29	999.00	-0.69	999.00	-0.52	0.00
20 10 18 7		19.37	5.51	52.57	999.00		17.03	6.14		182.80	8.56	17.12	53.29	999.00	-0.70	999.00	-0.56	0.00
20 10 18 8		20.28	4.97	52.01	999.00		18.15	5.77		185.70	8.66	16.33	52.71	999.00	-0.74	999.00	-0.53	0.00
20 10 18 9		17.81	4.16	51.59	999.00		16.54	5.15		187.80	7.60	15.73	52.42	999.00	-0.83	999.00	-0.59	0.00
20 10 18 10		17.30	4.47	51.33	999.00		15.71	5.55		184.10	7.38	16.57	52.32	999.00	-1.10	999.00	-0.74	0.00
20 10 18 11		17.00	5.21	51.00	999.00		15.20	5.78		180.40	6.31	16.34	52.00	999.00	-1.04	999.00	-0.72	0.00
20 10 18 12		18.55	5.73	51.38	999.00		17.53	6.77		192.10	8.76	17.42	52.61	999.00	-1.33	999.00	-0.88	0.00
20 10 18 13		26.57	5.86	51.58	999.00		25.33	6.35		194.70	14.16	15.90	53.31	999.00	-2.12	999.00	-1.24	0.00
20 10 18 14		21.77	5.58	50.33	999.00		20.66	6.68		200.30	10.55	17.09	52.23	999.00	-1.94	999.00	-1.25	0.00
20 10 18 15		21.09	5.56	50.41	999.00		19.90	5.91		192.20	11.93	15.58	52.46	999.00	-2.09	999.00	-1.25	0.00
20 10 18 16		22.27	6.77	52.50	999.00		21.10	8.40		200.60	12.15	17.40	55.13	999.00	-2.60	999.00	-1.52	0.00
20 10 18 17		21.47	8.45	54.14	999.00		20.57	8.74		198.90	11.55	17.77	56.74	999.00	-2.83	999.00	-1.24	0.00
20 10 18 18		22.22	5.08	54.73	999.00	186.80	20.56	5.84		198.40	11.07	14.92	56.47	999.00	-1.49	999.00	-0.96	0.00
20 10 18 19		18.36	5.03	54.01	999.00	178.50	16.66	5.58		189.90	8.31	16.28	55.34	999.00	-1.17		-0.84	0.00
20 10 18 20		15.07	4.36	53.18	999.00	178.50	13.67	4.50		189.60	6.57	16.05	54.24	999.00	-0.99	999.00	-0.71	0.00
20 10 18 21		17.87	4.40	51.04	999.00	320.10	17.37	5.07		328.30	12.08	10.67	52.52	999.00	-1.67	999.00	-1.12	0.00
20 10 18 22		14.44	4.27	48.11	999.00	303.10	13.43	5.59		307.20	8.06	11.99	49.62	999.00	-1.44	999.00	-0.43	0.00
20 10 18 23	40.42 286.10	1.96	82.10	47.39	999.00	14.91	1.99	89.50		157.70	2.36	26.40	48.59	999.00 999.00	-1.27	999.00	-0.24	0.00
20 10 18 24		9.55	4.24	47.26	999.00	279.30	9.02	4.25		272.50	4.99	8.81 14.36	48.42		-1.29	999.00	-0.16	0.00
20 10 19 1		14.50	8.65	46.84	999.00	318.50	13.99	9.56		320.50	9.33		48.10	999.00	-1.49	999.00	-0.44	0.00
20 10 19 2		11.96	3.63	45.73	999.00	338.10	12.01	3.76		344.80	8.15	9.69	47.44		-1.73	999.00	-0.89	0.00
20 10 19 3		7.81	5.28		999.00		7.35	6.58		331.60	4.31	10.42		999.00	-1.92	999.00	-0.63	0.03
20 10 19 4			6.98		999.00		12.86	7.10		346.40		8.97			-2.12		-1.29	0.00
20 10 19 5		12.55	4.38		999.00		12.28	4.58		345.10		10.55		999.00		999.00	-1.26 -1.15	0.00
20 10 19 6		11.25	11.28		999.00		10.95	11.13		354.10	8.38	15.40		999.00		999.00	-1.15	0.04
20 10 19 7		12.01	6.43		999.00	38.67	10.24	7.52	45.82	50.31		13.11		999.00		999.00	-1.88	0.10
20 10 19 8	18.11	14.74	5.42		999.00	15.39	13.29	6.06	45.34	22.40		10.98		999.00 999.00		999.00	-1.66 -1.53	0.04
20 10 19 9	32.23	12.06	6.70		999.00	31.13	9.64	8.46	45.10	37.18	9.47	10.00				999.00	-1.53	0.07
20 10 19 10	31.79	9.86	8.94		999.00	28.79	8.33	10.59	45.41	30.96		10.83		999.00		999.00	-0.52 -0.14	0.04
20 10 19 11	23.92	11.78	4.41		999.00	21.72	10.18	6.16	45.79	30.47		11.31		999.00		999.00	-0.14	0.03
20 10 19 12	27.91	1∠.10	6.47	44.94	999.00	24.87	10.46	1.63	46.11	31.12	0.00	11.29	40.40	999.00	-1.4/	999.00	-0.29	0.02

20 10 19 13	27.96	9.58	7.70		999.00	26.27	7.93	9.22	46.03	29.31	6.76	13.19		999.00		999.00	-0.54	0.02
20 10 19 14	33.09	10.08	8.03	44.97	999.00	33.17	8.55	9.60	46.13	45.05	7.85	15.17	46.71	999.00	-1.50	999.00	-0.58	0.00
20 10 19 15	18.87	14.58	7.31	45.43	999.00	17.11	12.80	7.73	46.83	24.40	10.01	11.51	46.69	999.00		999.00	0.14	0.00
20 10 19 16	24.75	14.32	4.54	45.73	999.00	22.55	12.37	6.13	46.84	33.65	10.81	11.42	47.00	999.00		999.00	-0.16	0.00
20 10 19 17	37.27	11.46	5.75	46.51	999.00	36.15	9.62	7.32	47.42	46.67	8.83	11.62	47.99	999.00	-1.60	999.00	-0.57	0.00
20 10 19 18	36.00	11.44	6.26	46.42	999.00	33.48	9.44	8.07	47.11	41.86	8.49	11.40	47.90	999.00	-1.47		-0.79	0.00
20 10 19 19	26.64	12.14	4.69	46.42	999.00	22.00	10.51	6.29	47.11	29.93	8.49	9.45	47.90	999.00	-1.25	999.00	-0.79	0.00
20 10 19 20	348.60	19.36	2.96	47.14	999.00	346.20	19.26	3.51	47.79	351.40	14.06	6.94	48.50	999.00	-1.39	999.00	-0.71	0.02
20 10 19 21	343.70	23.22	4.15	45.52	999.00	341.50	23.21	4.97	46.16	348.00	17.16	8.67	46.73	999.00	-1.22		-0.57	0.00
20 10 19 22	6.57	18.33	11.45	44.36	999.00	4.49	16.88	11.01	44.78	11.03	13.96	12.04	45.64	999.00	-1.25	999.00	-0.86	0.00
20 10 19 23	18.45	20.92	5.91	43.82	999.00	15.87	17.92	7.63	44.18	24.90	14.43	9.97	45.08	999.00	-1.27	999.00	-0.90	0.00
20 10 19 24	18.73	20.47	5.08	43.87	999.00	15.53	18.09	6.81	44.28	24.51	14.06	11.32	45.20	999.00	-1.35	999.00	-0.92	0.20
20 10 20 1	21.84	21.09	2.69	43.70	999.00	18.81	18.06	4.93	44.12	30.51	14.41	9.56	44.92	999.00	-1.20	999.00	-0.80	0.13
20 10 20 2	22.66	18.22	4.13	43.52	999.00	19.89	15.54	7.25	43.93	31.82	12.37	11.01	44.72	999.00	-1.22	999.00	-0.79	0.01
20 10 20 3	35.69	13.10	6.86	43.67	999.00	34.52	10.73	8.06	44.06	43.29	9.62	10.59	44.78	999.00	-1.11	999.00	-0.72	0.01
20 10 20 4	35.11	9.53	9.36	44.55	999.00	32.43	8.27	10.31	45.28	40.60	7.47	13.56	45.62	999.00	-1.01		-0.34	0.00
20 10 20 5	39.21	10.03	8.64	45.06	999.00	38.41	8.36	8.67	45.99	51.35	7.42	12.82	46.03	999.00	-0.94		-0.04	0.00
20 10 20 6	22.58	15.50	5.53	45.23	999.00	19.85	13.39	8.00	46.18	28.41	10.67	12.00	46.32	999.00		999.00	-0.14	0.00
20 10 20 7	21.49	17.47	5.64	45.11	999.00	18.62	15.20	7.65	46.09	27.10	12.43	11.21	46.47	999.00		999.00	-0.38	0.00
20 10 20 8	17.75	17.37	6.67	45.11	999.00	16.01	15.91	6.00	46.09	27.68	12.66	11.00	46.47	999.00	-1.51		-0.38	0.00
20 10 20 9	22.40	16.76	4.38	45.23	999.00	18.93	14.78	6.14	45.72	27.26	12.56	9.74	46.67	999.00	-1.31	999.00	-0.95	0.00
20 10 20 10	29.08	15.45	5.64	45.71	999.00	25.46	12.98	7.06	46.06	33.38	11.80	9.51	47.10	999.00	-1.43	999.00	-1.04	0.00
20 10 20 11	49.98	14.67	8.29	45.71 46.83	999.00	46.77	14.47	7.92	46.06	58.74 48.14	11.32 11.25	13.78 11.56	47.10 48.23	999.00 999.00		999.00 999.00	-1.04	0.00
20 10 20 12 20 10 20 13	43.07	13.42	8.50			41.44	11.60 12.33	8.37	47.02						-1.87	999.00	-1.21	
20 10 20 13	35.38 47.20	15.35 14.02	6.49	47.35 47.94	999.00	33.03 44.98	12.33	8.18 9.06	47.87 48.69	41.81 54.14	11.18 11.32	10.83 14.83	49.81 51.06	999.00 999.00	-2.62 -3.27	999.00	-1.94 -2.37	0.00
20 10 20 14			9.10	48.34	999.00		12.99			65.19	10.87		50.65	999.00	-2.07	999.00		0.00
20 10 20 13	50.97 59.72	13.74 17.24	6.59 4.75	48.87	999.00	48.17 57.12	16.19	6.81 7.12	48.91 49.39	64.98	10.07	11.52 11.66	50.90	999.00		999.00	-1.75 -1.63	0.00
20 10 20 10	65.77	19.70	4.73	49.57	999.00	64.29	19.25	5.61	50.05	71.10	13.10	10.97	51.47	999.00		999.00	-1.03	0.00
20 10 20 17	66.46	18.49	5.09	50.26	999.00	64.21	17.70	6.15	50.72	71.10	10.77	11.46	51.47	999.00		999.00	-1.47	0.00
20 10 20 10	74.40	19.24	4.17	50.62	999.00	71.70	18.76	4.68	51.07	78.10	10.77	13.60	52.01	999.00	-1.32	999.00	-0.90	0.00
20 10 20 19	80.30	20.78	4.98	50.80	999.00	78.30	19.96	5.38	51.27	88.80	10.03	14.23	52.15	999.00	-1.40	999.00	-0.93	0.00
20 10 20 20 20 20 20 10 20 21	113.40	17.80	6.95	50.80	999.00	110.70	16.45	9.07	51.27	119.60	8.09	17.53	52.15	999.00		999.00	-1.07	0.00
20 10 20 21		16.19	3.72	50.42	999.00	113.80	14.57	4.67		125.00	8.20	14.20	51.88	999.00	-1.62	999.00	-1.10	0.00
20 10 20 22		16.96	3.84	50.42	999.00	114.90	15.22	4.88		124.60	8.05	12.57	51.43	999.00	-1.37	999.00	-0.96	0.07
20 10 20 23		11.68	7.32	50.03		124.50	10.52	9.81		141.60	5.25	15.98	51.43	999.00		999.00	-0.79	0.07
20 10 20 21 20 21		6.25	18.85	49.78		101.80	5.13	19.58	50.12	61.78	3.06	22.00	50.53	999.00	-0.79	999.00	-0.72	0.13
20 10 21 2		15.92	2.06	51.63		157.40	12.53	2.29		131.40	4.18	13.67	50.98	999.00	2.04	999.00	-0.70	0.30
20 10 21 3		25.61	3.50	55.25		168.10	21.31	4.19		166.30	6.72	21.03	52.84	999.00	2.04		-2.35	0.29
20 10 21 4		29.16	3.95	58.63		176.60	26.11	4.67	58.86	186.30	11.99	15.97	58.66	999.00	-0.41	999.00	-2.90	0.17
20 10 21 5		26.62	5.20	59.69	999.00	190.10	23.91	5.81	60.34	201.10	12.03	15.87	60.32	999.00	-0.89	999.00	-2.92	0.00
20 10 21 6		27.49	4.54	59.42	999.00	184.10	25.15	5.53	60.54	192.80	12.80	14.27	60.42	999.00	-1.03	999.00	-3.81	0.14
20 10 21 7		26.88	5.08	59.55		194.00	23.64	5.96	60.43		10.83	15.69	60.30	999.00		999.00	-3.63	0.00
20 10 21 8		18.28	6.27		999.00		15.85	7.42		221.60	7.41	14.18		999.00		999.00	-3.60	0.02
20 10 21 9		20.30	5.91		999.00		17.98	6.76		243.40	10.47	10.24		999.00		999.00	-4.00	0.00
20 10 21 10		20.45	6.78		999.00		18.22	7.12		256.40	11.55	10.92		999.00	999.00		-4.00	0.00
20 10 21 11		22.50	6.61	999.00		270.00	21.09	6.83		264.70	14.31	11.40	58.82	999.00		999.00	-3.87	0.00
20 10 21 12		20.44	7.40	999.00	999.00	264.10	19.66	8.24	54.68	258.00	14.44	12.07		999.00		999.00	-3.63	0.00
20 10 21 13		18.08	6.66		999.00	261.70	17.44	7.76		256.20	12.06	11.68		999.00		999.00	-3.18	0.00
20 10 21 14		16.57	5.66		999.00		15.51	7.08		258.90	11.77	12.35	58.21			999.00	-3.28	0.00
20 10 21 15		11.17	7.84		999.00		10.83	8.68		239.40	8.51	12.48		999.00		999.00	-3.18	0.00
20 10 21 16		9.20	10.17		999.00		8.91	11.11		244.80	7.31	14.54		999.00		999.00	-2.90	0.00
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20 10 21 17		4.45	17.97		999.00		5.30	15.98		335.00	6.33	9.84		999.00		999.00	-0.84	0.00
20 10 21 18		3.76	6.13	55.52	999.00	318.50	4.95	4.07	56.07	325.00	4.37	6.23	57.47	999.00	-1.91	999.00	-1.39	0.00
20 10 21 19	251.20	3.80	6.65	55.64	999.00	287.50	2.82	11.18	55.76	318.00	1.95	11.54	56.43	999.00	0.23	999.00	0.14	0.00
20 10 21 20	283.10	3.42	8.99	56.25	999.00	308.40	3.10	8.72	56.07	27.78	0.50	75.00	55.08	999.00	1.73	999.00	1.72	0.00
20 10 21 21	330.50	1.83	10.78	55.52	999.00	341.90	2.58	4.65	55.79	36.51	0.02	7.97	54.25	999.00	1.56	999.00	1.91	0.00
20 10 21 22	10.48	3.92	16.99	55.65	999.00	11.64	3.97	16.97	56.12	96.40	2.21	22.78	53.92	999.00	1.54	999.00	1.96	0.00
20 10 21 23	69.22	6.82	8.71	55.59	999.00	76.10	6.99	9.55	55.68	130.60	3.42	39.42	53.55	999.00	1.63	999.00	1.74	0.00
20 10 21 24	17.22	6.52	12.56	54.80	999.00	14.68	5.07	11.63	55.18	12.19	3.76	20.11	54.90	999.00	-1.27	999.00	-0.86	0.00
20 10 22 1	72.20	8.70	16.68	54.19	999.00	70.80	7.65	19.66	54.57	114.70	4.35	39.66	55.44	999.00	-1.13	999.00	-0.85	0.14
20 10 22 2	95.00	11.44	4.14	51.48	999.00	91.90	10.52	4.88	50.64	95.90	4.95	15.65	52.53	999.00	-0.33	999.00	-1.01	0.20
20 10 22 3		12.52	4.19	51.38	999.00	100.40	11.50	4.92		102.00	5.67	15.74	51.67	999.00	-0.65	999.00	-0.91	0.04
20 10 22 4	71.50	12.78	6.54	50.73	999.00	65.10	11.96	7.19	50.45	67.18	6.78	16.46	51.57	999.00	-0.72	999.00	-1.07	0.03
20 10 22 4	49.03	15.55	12.43	50.73	999.00	43.63	14.27	11.64	50.43	44.97	10.97	17.98	51.29	999.00	-1.30	999.00	-1.45	0.03
20 10 22 6	86.10	15.78	3.98	50.47	999.00	78.80	14.72	5.32	50.38	75.40	7.54	13.97	51.76	999.00	-1.33	999.00	-1.23	0.02
20 10 22 7	55.96	16.19	5.58	51.28	999.00	47.41	15.00	5.95	51.54	45.30	9.66	11.05	52.77	999.00	-1.52	999.00	-1.22	0.00
20 10 22 8	66.61	17.94	3.38	50.75	999.00	59.22	17.15	4.99	50.79	61.67	10.44	11.20	52.00	999.00	-1.26	999.00	-1.25	0.00
20 10 22 9	90.40	19.31	2.56	51.23	999.00	83.70	18.63	3.16	51.36	84.40	8.96	14.47	52.58	999.00		999.00	-1.21	0.00
20 10 22 10	86.70	14.83	3.52	51.94	999.00	80.30	14.10	5.30	52.31	76.20	8.44	11.76	53.58	999.00	-1.82	999.00	-1.34	0.00
20 10 22 11	77.80	15.88	2.73	52.48	999.00	69.46	14.84	4.39	53.04	67.76	9.11	12.47	54.56	999.00	-2.43	999.00	-1.76	0.00
20 10 22 12	100.10	14.26	4.58	53.36	999.00	92.40	12.51	6.69	54.07	91.30	6.82	14.49	55.99	999.00	-2.73	999.00	-2.00	0.00
20 10 22 13	115.00	14.50	4.40	54.69	999.00	103.20	13.65	5.88	55.61	102.10	7.88	13.53	57.09	999.00	-2.09	999.00	-1.19	0.00
20 10 22 14	124.60	6.69	8.36	57.05	999.00	111.70	6.70	9.36	58.35	94.30	5.13	21.81	58.96	999.00	-1.40	999.00	0.14	0.00
20 10 22 15	115.20	7.58	10.87	58.62	999.00	97.90	6.98	13.12	60.84	79.00	5.81	17.31	60.27	999.00	-1.84	999.00	-0.03	0.00
20 10 22 16	117.60	6.16	5.86	61.48	999.00	95.90	6.69	3.63	61.30	70.60	6.52	10.48	60.64	999.00	3.29	999.00	1.27	0.00
20 10 22 17	90.60	7.14	6.21	63.81	999.00	71.80	8.67	3.69	61.24	75.90	5.80	13.49	60.31	999.00	3.67	999.00	0.78	0.00
20 10 22 18	101.30	9.71	5.32	62.73	999.00	83.20	12.91	4.67	60.21	78.20	6.79	12.42	59.57	999.00	4.71	999.00	2.11	0.00
20 10 22 19		12.20	2.40	65.58	999.00	107.50	13.60	1.31	62.29	100.00	6.16	11.10	58.96	999.00	7.97	999.00	4.01	0.00
20 10 22 20		16.32	2.07	66.39	999.00	130.40	13.79	3.42		111.10	3.99	14.37	58.50	999.00	999.00	999.00	5.58	0.00
20 10 22 21		20.03	1.27	999.00	999.00	172.80	17.30	1.25		142.80	3.26	7.85	59.62	999.00	999.00	999.00	7.97	0.00
20 10 22 22		25.60	1.66	999.00	999.00		21.94	1.70		155.80	4.05	13.78	62.15	999.00	999.00	999.00	7.63	0.00
20 10 22 23		26.09	2.00	71.15	999.00		19.83	2.91		166.90	5.18	14.65	64.74			999.00	3.21	0.00
20 10 22 24		25.45	2.74	69.47	999.00	177.60	20.46	3.28		173.30	6.27	14.54	65.56	999.00	2.97	999.00	2.13	0.00
20 10 22 24		23.43	2.96	68.46	999.00		18.90	3.02		179.10	6.81	13.85	66.54	999.00	1.74	999.00	1.36	0.00
20 10 23 1		22.17	2.98	67.63	999.00	186.90	18.45	3.60		184.30	6.72	13.48	65.96		1.47	999.00	1.25	0.00
20 10 23 2		22.17	3.17	67.14	999.00	186.40	18.25	4.04		182.30		12.55	65.84			999.00	1.12	0.00
											6.61				1.35			
20 10 23 4		22.13	2.64	66.57	999.00		17.97	3.52		183.90	6.48	13.79	65.30		1.33	999.00	0.94	0.00
20 10 23 5		22.53	2.85	66.57	999.00	189.90	17.66	3.50		185.90	6.78	12.60	65.30	999.00	1.67	999.00	1.13	0.00
20 10 23 6		22.59	2.84	65.75		187.10	18.34	4.30		181.90	7.36	12.74	64.40	999.00	1.41	999.00	0.99	0.00
20 10 23 7		23.30	3.14	65.40	999.00	185.10	19.65	4.10		183.40	7.62	13.34	64.24	999.00	0.93	999.00	0.71	0.00
20 10 23 8		25.48	3.84	65.34	999.00	188.80	21.48	4.97		186.00	9.24	15.03	64.72	999.00	0.47	999.00	0.37	0.00
20 10 23 9		24.76	4.17	65.94	999.00	191.50	20.82	5.35		189.10	9.19	15.04	65.74	999.00	-0.12	999.00	0.01	0.00
20 10 23 10		22.28	5.30	67.26	999.00	194.60	20.41	5.79	67.71	190.90	9.86	15.45	68.14	999.00	-1.35	999.00	-0.71	0.00
20 10 23 11		21.57	5.72	69.04	999.00		19.91	6.61		197.50	11.42	14.77		999.00		999.00	-1.39	0.00
20 10 23 12	208.50	23.02	5.80	71.15	999.00	203.40	21.41	6.94	71.90	200.10	12.22	15.45	73.38	999.00	-2.37	999.00	-1.71	0.00
20 10 23 13	203.30	26.67	4.90	73.63	999.00	198.40	25.32	5.42	74.27	195.30	14.15	14.92	75.93	999.00		999.00	-1.71	0.00
20 10 23 14	217.40	26.66	7.76	74.70	999.00	213.80	24.89	8.26	75.30	212.10	16.11	13.46	76.75	999.00	-2.36	999.00	-1.76	0.00
20 10 23 15		28.73	5.84	74.77	999.00	200.30	25.89	6.41		198.00	11.49	14.93		999.00		999.00	0.33	0.00
20 10 23 16		24.10	6.00		999.00		21.59	7.16		201.80	11.94	15.51		999.00		999.00	-1.21	0.00
20 10 23 17		24.57	5.11		999.00		22.07	5.85		191.20	11.31	14.58		999.00		999.00	-0.61	0.00
20 10 23 18		28.18	17.69	69.83	999.00		26.50	19.53		228.50	16.44	22.63		999.00		999.00	-0.90	0.00
20 10 23 19		19.19	4.43		999.00		17.05	5.44		215.80	9.08	11.55		999.00		999.00	-0.46	0.00
20 10 23 10		18.12	4.50		999.00		15.77	4.81		230.60	8.77	9.39		999.00		999.00	0.09	0.00
20 10 23 20	270.00	10.14	7.JU	02.30	222.00	201.20	10.11	4.01	00.02	200.00	0.//	2.33	00.02	222.00	0.04	222.00	0.00	0.00

00 10 00 01	005 60	04.50	F 67	60.00	000 00	070 00	00 00	F F 2	62.00	071 50	15 05	0 11	60.00	000 00	1 46	000 00	0 64	0 00
20 10 23 21		24.50	5.67	62.98	999.00		22.89	5.53		271.50	15.95	9.11		999.00		999.00	-0.64	0.00
20 10 23 22 20 10 23 23		25.51	4.41	54.84	999.00	296.40	24.05	5.13	55.17	293.30	14.81	12.99	55.39	999.00	-0.59	999.00	-0.45	0.00
		24.36	5.79	52.33	999.00	302.80	23.92	6.69		301.30	15.97	11.03	53.93			999.00	-1.20	0.01
20 10 23 24 20 10 24 1		24.69 24.10	4.49 5.73	49.28 47.75	999.00 999.00	298.40 306.70	23.66 24.21	5.91 6.56	49.30	292.60 304.10	14.50 16.11	12.22 10.81	50.62 49.33	999.00 999.00	-1.02 -1.73	999.00 999.00	-0.92	0.00
20 10 24 1		24.10	6.20	47.73	999.00	304.30	24.21		46.98	299.20	14.05	12.03	49.33	999.00	-1.73 -1.76	999.00	-1.17 -1.18	0.00
20 10 24 2		22.13	6.12	45.17	999.00	314.10	21.34	6.42 6.74		311.10	13.77	10.25	46.78	999.00	-1.54	999.00	-0.99	0.00
20 10 24 3		22.23	6.67	43.17	999.00	314.10	21.11	7.38	44.41	310.20	13.77	12.37	45.48	999.00	-1.65	999.00	-1.10	0.00
20 10 24 4		19.00	7.33	42.95	999.00	322.60	18.34	8.20	43.48	314.70	12.05	12.74	44.51	999.00		999.00	-1.15	0.00
20 10 24 6		20.07	8.46	41.99	999.00	337.00	19.59	9.09		332.90	14.00	12.29	43.74	999.00	-1.83	999.00	-1.27	0.00
20 10 24 0		18.37	6.81	41.99	999.00	332.30	18.00	7.84	42.55	329.40	12.95	11.17	43.74	999.00	-1.92	999.00	-1.35	0.00
20 10 24 7	342.00	16.71	6.95	39.81	999.00	337.10	16.09	8.12	40.36	334.60	12.49	10.52	41.67	999.00	-1.92	999.00	-1.36	0.00
20 10 21 0	22.70	11.68	11.26	39.94	999.00	20.65	9.61	10.27	40.47	19.85	9.54	13.15	41.88	999.00	-1.94	999.00	-1.40	0.00
20 10 21 9	16.28	11.13	14.44	39.82	999.00	13.98	9.70	14.24	40.40	15.45	9.90	17.72	41.79	999.00	-1.96	999.00	-1.37	0.00
20 10 24 11	23.05	8.54	16.68	39.71	999.00	18.89	8.23	18.39	40.31	23.00	7.77	22.33	41.66	999.00	-1.86	999.00	-1.26	0.00
20 10 24 12	20.84	8.90	15.68	40.26	999.00	17.78	7.81	14.91	40.88	15.33	8.03	15.80	42.17	999.00	-1.85	999.00	-1.21	0.00
20 10 24 13	14.99	8.48	16.79	40.57	999.00	11.58	7.61	16.32	41.23	15.39	7.64	16.91	42.45	999.00	-1.88	999.00	-1.18	0.00
20 10 24 14	14.87	8.58	16.46	40.85	999.00	9.34	8.13	16.46	41.55	8.62	8.35	19.05	42.79	999.00	-1.82	999.00	-1.07	0.00
20 10 24 15	15.37	5.43	18.27	41.34	999.00	14.05	4.72	16.82	42.04	19.21	5.25	26.76	43.09	999.00	-1.61	999.00	-0.80	0.00
20 10 24 16	18.67	6.52	17.64	41.64	999.00	14.37	5.89	16.87	42.35	8.27	5.27	19.83	43.47	999.00	-1.67	999.00	-1.03	0.00
20 10 24 17	45.24	6.34	18.36	41.64	999.00	42.18	5.82	15.98	42.35	44.13	5.39	18.88	43.47	999.00	-1.75	999.00	-1.13	0.00
20 10 24 18	44.75	8.28	13.23	42.30	999.00	40.96	7.91	10.81	42.89	55.31	6.32	21.68	44.03	999.00	-1.66	999.00	-1.08	0.00
20 10 24 19	44.19	7.25	13.51	42.64	999.00	37.97	6.78	11.54	43.27	30.45	5.83	16.84	44.31	999.00	-1.64	999.00	-1.12	0.00
20 10 24 20	59.01	7.42	9.29	42.93	999.00	51.02	7.04	8.70	43.39	57.22	4.53	10.12	44.31	999.00	-1.45	999.00	-0.97	0.00
20 10 24 21	76.00	8.63	10.00	43.85	999.00	69.73	8.43	10.35	44.34	82.50	4.93	19.56	45.16	999.00	-1.25	999.00	-0.77	0.00
20 10 24 22	67.84	9.96	13.03	44.50	999.00	60.22	9.35	12.69	44.99	61.29	5.52	14.16	45.79	999.00	-1.25	999.00	-0.77	0.00
20 10 24 23	306.60	2.66	80.40	44.64	999.00	273.90	3.15	64.61	45.08	258.30	2.99	27.76	45.42	999.00	0.19	999.00	0.52	0.00
20 10 24 24	41.40	10.75	9.87	44.38	999.00	35.85	9.81	9.68	44.65	33.24	8.11	13.48	43.37	999.00	-1.56	999.00	-1.03	0.00
20 10 25 1	49.47	12.11	10.56	44.57	999.00	42.14	11.33	9.68	45.13	40.15	8.83	14.15	46.22	999.00	-1.62	999.00	-1.08	0.00
20 10 25 2	59.14	18.00	5.42	44.12	999.00	51.69	17.49	5.73	44.65	53.91	11.77	11.37	45.58	999.00	-1.33	999.00	-0.83	0.00
20 10 25 3	69.43	16.15	5.80	43.73	999.00	62.63	15.32	6.41	44.21	64.21	10.14	11.39	45.05	999.00	-1.27	999.00	-0.80	0.00
20 10 25 4	63.02	16.89	5.09	43.73	999.00	56.80	16.20	5.63	44.21	58.35	10.45	10.94	45.05	999.00	-1.28	999.00	-0.79	0.00
20 10 25 5	46.59	17.18	9.12	44.00	999.00	39.71	15.87	9.89	44.53	40.56	11.33	13.12	45.51	999.00	-1.66	999.00	-1.09	0.00
20 10 25 6	45.38	16.36	8.00	44.06	999.00	38.83	15.19	8.28	44.62	37.01	12.03	12.72	45.78	999.00	-1.67	999.00	-1.14	0.00
20 10 25 7	31.06	17.77	6.09	44.24	999.00	27.07	15.33	7.25	44.80	26.64	15.60	10.63	46.04	999.00	-1.81		-1.25	0.00
20 10 25 8	37.47	16.52	7.89	44.23	999.00	33.42	15.28	8.26	44.78	31.91	12.79	11.28	46.01	999.00		999.00	-1.21	0.00
20 10 25 9	39.76	15.34	9.37	44.20	999.00	33.98	14.24	8.54	44.78	29.89	13.14	10.64	45.99	999.00	-1.79	999.00	-1.22	0.00
20 10 25 10	53.37	21.32	6.79	44.56	999.00	47.10	19.90	7.29	45.13	46.43	13.26	12.15	46.29	999.00	-1.75	999.00	-1.14	0.00
20 10 25 11 20 10 25 12	57.86 112.20	15.55	20.01	44.94	999.00	49.51 105.30	14.40	18.81 5.90	45.47	45.08 109.30	11.62	18.24	46.66	999.00 999.00	-1.52 -1.57	999.00 999.00	-1.11	0.00
20 10 25 12	98.50	15.77 19.11	5.51 4.80	46.36 46.16	999.00	92.00	15.10 17.82	5.94	46.90 46.71	96.30	8.24 8.41	14.79 16.41	47.86 47.76	999.00	-1.67	999.00	-1.03 -1.12	0.00
20 10 25 13	88.80	18.33	5.74	46.46	999.00	82.70	17.49	7.06	47.07	83.30	9.80	16.79	48.45	999.00	-2.32	999.00	-1.12	0.00
20 10 25 14	83.50	19.04	4.20		999.00	76.60	18.60	5.00	47.07	77.80	11.22	14.25		999.00		999.00	-1.52	0.00
20 10 25 15		20.63			999.00	69.22	19.30		47.27	68.44				999.00	-2.13		-1.32 -1.42	0.00
20 10 25 10	73.70	24.13	3.30		999.00	67.12	23.35	3.79	47.62	67.35	14.91	11.39		999.00		999.00	-1.30	0.00
20 10 25 17	79.00	23.62	5.56		999.00	71.30	22.62	6.53	48.48	69.61	13.04	13.46		999.00		999.00	-1.04	0.00
20 10 25 10	75.00	23.96	4.06		999.00	68.52	22.98	4.95	48.81	67.01	13.38	12.54		999.00		999.00	-0.95	0.00
20 10 25 10	72.50	22.22	3.46		999.00	65.12	21.59	4.41	49.19	64.51	13.86	11.01		999.00		999.00	-0.96	0.00
20 10 25 21	76.60	23.30	4.35	48.84	999.00	69.86	22.73	4.48	49.36	68.43	13.49	12.08		999.00		999.00	-0.91	0.00
20 10 25 22	92.30	17.72	4.31		999.00	85.90	16.65	5.29	49.64	87.10	8.32	14.47		999.00		999.00	-0.76	0.00
20 10 25 23		13.68	6.96		999.00	91.80	12.94	7.26	49.83	92.90	6.52	15.93		999.00		999.00	-0.66	0.00
20 10 25 24		7.03	5.70		999.00		6.65	5.89		187.30	3.55	14.52		999.00		999.00	-0.64	0.00

00 10 06 1 007 70	0 00	20 76	40.05	000 00	0.47.00	0.66	40 75	40 70	000 00	0.75	10 70	40 20	000 00	1 0 4	000 00	0 57	0 00
20 10 26 1 227.70	2.83	38.76		999.00		2.66	40.75		289.30	2.75	12.72		999.00		999.00	-0.57	0.00
20 10 26 2 34.14	11.05	9.61	47.67	999.00	29.08	10.62	8.41	48.19	23.19	10.23	10.31	49.00	999.00	-1.63	999.00	-1.10	0.00
20 10 26 3 45.36	10.06	9.89	46.71		40.06	9.62	9.61	47.25	39.17	6.67	14.99	48.33	999.00	-1.60		-1.07	0.00
20 10 26 4 46.94 20 10 26 5 17.18	11.55 6.77	6.43 8.21	46.17 46.17	999.00 999.00	41.04 11.69	10.78 5.80	7.03 9.19	46.70 46.70	38.70 4.93	8.02	11.38 13.72	47.76	999.00 999.00	-1.59 -1.29	999.00 999.00	-1.09	0.00
20 10 26 5 17.18 20 10 26 6 345.00	5.34	32.70	45.35	999.00	333.60	5.00	29.68	45.70		5.07 3.71	41.79	47.76 46.31	999.00	-0.75	999.00	-0.93 -0.68	0.00
20 10 26 7 358.60	13.51	8.34	44.41	999.00	352.60	13.45	7.33	44.53		10.02	11.49	45.51	999.00	-1.05	999.00	-1.11	0.00
20 10 26 7 338.60	8.09	11.35	44.25	999.00	11.23	7.15	12.42	44.16	4.92	6.38	15.62	45.13	999.00	-0.94	999.00	-0.94	0.01
20 10 26 9 6.16	6.53	18.04	44.46	999.00	5.02	6.26	18.68	44.49	12.51	5.31	20.82	45.32	999.00	-0.83	999.00	-0.87	0.00
20 10 26 10 346.10	8.95	4.51	44.81	999.00	343.30	8.79	4.90		342.60	6.77	8.75	45.94	999.00	-1.40	999.00	-0.97	0.00
20 10 26 11 332.60	11.51	6.72	45.16	999.00	326.60	11.04	7.35		321.80	7.58	11.23	46.73	999.00	-1.62	999.00	-1.06	0.00
20 10 26 12 339.10	17.44	3.70	43.50		334.30	17.11	5.24		331.10	12.01	9.13	45.29	999.00	-1.70	999.00	-1.65	0.00
20 10 26 13 335.40	14.18	5.23	43.39	999.00	329.20	14.22	5.77		322.60	10.23	12.44	44.68	999.00	-1.26	999.00	-1.49	0.00
20 10 26 14 342.10	11.98	6.84	43.67	999.00	337.50	11.36	8.15		339.00	8.94	9.94	45.06	999.00	-1.52	999.00	-2.00	0.00
20 10 26 15 326.00	11.17	6.74	44.24	999.00	322.00	10.97	7.10		315.50	7.94	12.24	45.86	999.00	-1.65	999.00	-2.32	0.00
20 10 26 16 336.80	9.23	8.59	45.23	999.00	329.80	9.37	9.78		323.40	6.70	17.47	47.07	999.00		999.00	-2.23	0.00
20 10 26 17 322.30	9.56	6.80	45.48		315.30	9.08	7.65		305.10	6.11	10.36	47.30	999.00	-1.77	999.00	-1.67	0.00
20 10 26 18 329.20	13.17	8.05	45.72		322.80	12.37	8.48		311.80	8.91	12.10	47.35	999.00	-1.59	999.00	-2.09	0.00
20 10 26 19 324.30	13.59	3.50	45.01		319.10	12.79	4.59		306.30	6.70	10.47	46.35	999.00	-0.94		-1.39	0.04
20 10 26 20 333.10	9.91	4.41	45.09	999.00	327.40	9.68	4.40		319.00	5.42	10.82	45.96	999.00	-1.01	999.00	-0.59	0.00
20 10 26 21 336.90	12.26	4.98	45.09	999.00	332.20	11.97	6.14		327.70	7.79	10.76	45.96	999.00	-1.34	999.00	-0.82	0.00
20 10 26 22 330.50	11.28	5.73	45.37	999.00		10.70	5.63		313.40	6.41	9.59	46.54	999.00		999.00	-0.67	0.00
20 10 26 23 335.00	12.29	5.67	44.63	999.00	330.70	12.48	6.15	45.16	324.00	8.20	10.33	46.09	999.00	-1.49	999.00	-0.97	0.00
20 10 26 24 326.60	11.69	4.36	43.68	999.00	322.30	11.54	6.34	44.21	312.90	7.78	9.67	45.16	999.00	-1.50	999.00	-0.96	0.00
20 10 27 1 325.10	12.24	5.29	43.03	999.00	320.30	12.01	5.95	43.56	313.70	7.88	11.82	44.52	999.00	-1.50	999.00	-0.96	0.00
20 10 27 2 334.20	13.46	3.86	42.80	999.00	329.00	13.16	5.18	43.33	322.50	8.97	10.16	44.29	999.00	-1.50	999.00	-0.96	0.00
20 10 27 3 342.90	13.17	5.37	42.48	999.00	339.10	12.87	6.33	43.02	338.40	9.05	11.47	44.17	999.00	-1.73	999.00	-1.19	0.00
20 10 27 4 341.90	12.05	4.58	42.27	999.00	337.10	11.95	5.47	42.81	335.30	8.51	9.37	43.99	999.00	-1.72	999.00	-1.19	0.00
20 10 27 5 344.10	9.89	8.15	41.98	999.00	338.90	9.57	9.22	42.51	334.00	6.98	13.22	43.66	999.00	-1.68	999.00	-1.16	0.00
20 10 27 6 352.80	7.47	11.97	41.87	999.00	346.70	7.29	10.21	42.40	339.90	5.97	14.27	43.59	999.00	-1.75	999.00	-1.22	0.00
20 10 27 7 327.40	3.62	8.04	41.87	999.00	318.60	3.62	7.74	42.40	257.60	2.01	21.21	43.59	999.00	-1.27	999.00	-0.78	0.00
20 10 27 8 263.30	3.41	12.15	42.21	999.00	249.00	3.96	8.67	42.69	226.40	3.74	7.85	43.27	999.00	-1.05	999.00	-0.60	0.00
20 10 27 9 279.00	5.99	4.35	41.59	999.00		7.21	4.15		263.50	4.03	12.22	42.65	999.00	-0.79	999.00	-0.71	0.00
20 10 27 10 269.20	4.92	2.58	41.59	999.00	261.10	5.42	3.59		247.10	3.97	10.81	42.65	999.00	-0.93	999.00	-0.78	0.00
20 10 27 11 296.40	4.96	12.16	41.41		286.70	4.78	12.74		282.70	3.77	17.68	42.84	999.00	-1.76	999.00	-1.30	0.00
20 10 27 12 249.50	3.38	11.19	41.61	999.00	250.30	3.48	14.87		259.70	3.10	18.89	43.44	999.00	-1.92	999.00	-1.31	0.00
20 10 27 13 269.00	4.39	17.50	41.85	999.00	268.90	4.33	13.61		262.50	3.61	20.87	43.83	999.00	-1.99	999.00	-1.36	0.00
20 10 27 14 292.90	6.35	10.15	41.90	999.00	287.20	6.15	10.72		283.20	4.77	15.77	43.87		-2.02	999.00	-1.43	0.00
20 10 27 15 311.60	8.37	4.76	41.45	999.00	305.30	8.51	6.40		291.90	6.43	13.60	43.41	999.00	-2.10	999.00	-1.54	0.00
20 10 27 16 325.70	8.15	5.05	39.74		319.80	7.62	6.22		313.80	5.50	13.92	41.64	999.00	-1.88	999.00	-1.50	0.00
20 10 27 17 322.70 20 10 27 18 233.40	6.78 1.90	6.56 35.82	39.37 39.22	999.00 999.00	315.60 246.80	5.99 0.90	7.30 38.21		301.50 130.30	4.08 0.96	15.71 80.30	41.11	999.00	-1.70 -1.42	999.00	-1.58	0.07
20 10 27 10 233.40	1.81	29.65		999.00		0.73	40.14		207.30	1.39	30.35		999.00 999.00		999.00 999.00	-1.14 -1.05	0.03
20 10 27 19 127.50	3.25			999.00			12.15			2.42	23.85		999.00	-1.24 -1.28		-1.03 -1.03	0.00
20 10 27 20 173.00	1.78	9.98		999.00		2.40	6.67		271.20	3.02	9.46		999.00		999.00	-0.98	0.00
20 10 27 21 208.70	5.43	10.90		999.00		5.81	6.80		210.30	4.34	12.76		999.00		999.00	-0.94	0.01
20 10 27 22 210.20	9.87	2.02		999.00		8.03	4.37		186.90	4.76	12.70		999.00		999.00	-1.14	0.03
20 10 27 23 190.00	7.56	7.30		999.00		6.43	7.59		212.30	4.13	10.74		999.00		999.00	-1.04	0.01
20 10 27 24 217.00	6.04	5.14		999.00		5.10	5.81		248.90	3.62	12.20		999.00		999.00	-0.93	0.00
20 10 28 2 243.50	7.65	6.99		999.00		6.99	7.36		245.00	3.99	11.11		999.00		999.00	-0.85	0.00
20 10 28 3 245.10	9.29	7.97		999.00		7.37	7.90		232.30	4.48	11.54		999.00		999.00	-0.98	0.00
20 10 28 4 255.10	10.86	4.30		999.00		9.86	5.43		245.50	5.89	11.18		999.00		999.00	-0.96	0.00

20 10 28 5	236 20	10.47	6.93	40.37	999.00	229.00	9.39	8.07	10 69	221.40	5.89	14.18	11 60	999.00	_1 /2	999.00	-1.05	0.00
	262.20	10.47	5.47	40.57	999.00	257.70	9.62	6.69		254.90	5.61	9.50	42.03	999.00	-1.42	999.00	-1.00	0.00
20 10 28 7		10.01	6.79	40.86	999.00	251.50	9.81	8.15		240.20	5.83	13.06	42.03	999.00	-1.23	999.00	-0.89	0.00
20 10 28 8		10.07	4.40	41.04	999.00	257.40	8.77	5.68		246.80	5.34	10.41	42.24	999.00	-1.15	999.00	-0.81	0.00
20 10 28 9		9.74	8.70	41.11	999.00	246.20	8.61	8.21		241.70	5.36	11.54	42.24	999.00	-1.40	999.00	-0.92	0.00
20 10 28 10		11.64	7.42	41.51	999.00	230.80	10.92	7.42		223.20	7.66	11.35	43.15	999.00	-1.84	999.00	-1.68	0.00
20 10 28 11		14.21	8.00	42.30	999.00	249.00	13.54	8.10		242.70	9.04	13.52	44.19	999.00	-1.77	999.00	-1.82	0.00
20 10 28 11		18.60	6.08	43.54	999.00	226.60	17.96	6.92	44.20	223.00	13.50	11.68	45.44	999.00	-2.38	999.00	-1.24	0.00
20 10 28 13		16.00	9.26	44.75	999.00	227.70	15.71	10.37	46.10	221.80	11.37	13.27	47.54	999.00	-2.83	999.00	-1.37	0.00
20 10 28 14		16.22	8.18	46.03	999.00	227.70	15.71	8.44	46.23		11.97	12.63	48.93	999.00	-2.97	999.00	-2.34	0.00
20 10 28 14		18.52	4.37	47.74	999.00	220.50	17.78	5.33		218.80	12.42	12.03	50.64	999.00	-2.74	999.00	-2.23	0.00
20 10 28 15		17.21	5.74	48.95	999.00	216.60	16.54	5.25		215.10	11.45	11.91	51.23	999.00	-2.74	999.00	-1.67	0.00
20 10 28 17		17.21	4.73	48.62	999.00	221.10	16.67	4.91	49.20	214.90	11.16	10.84	50.53	999.00	-1.73	999.00	-1.18	0.00
20 10 28 17		15.07	5.16	48.19	999.00	219.10	13.84	6.01	49.20	214.90	9.22	9.92	49.79	999.00	-1.41	999.00	-0.88	0.00
20 10 28 19		13.16	3.48	47.60	999.00	225.50	11.78	4.31		213.30	5.87	9.19	48.67	999.00	-0.82	999.00	-0.43	0.00
20 10 28 19		12.88	2.20	47.00	999.00	215.70	11.76	2.08		211.50	4.20	10.37	47.56	999.00	-0.32	999.00	-0.43	0.00
20 10 28 20		12.00	2.20	46.85	999.00	227.80	10.27	3.79		223.00	4.20	14.70	46.89	999.00	0.05	999.00	0.10	0.00
20 10 28 21		12.47	2.45	46.56	999.00	228.50	10.27	2.87		202.40	3.13	10.81	46.38	999.00	0.50	999.00	0.10	0.00
20 10 28 22		11.31	3.45	46.83	999.00	237.30	9.56	4.91		191.20	3.03	8.54	45.98	999.00	1.11	999.00	0.92	0.00
20 10 28 23		9.88	5.17	46.80	999.00	241.70	8.07	6.11		210.90	2.98	17.17	45.79	999.00	1.17	999.00	1.05	0.00
20 10 28 24		8.10	9.20	46.39	999.00	235.30	7.21	9.23		178.10	1.54	44.11	45.79	999.00	1.39	999.00	1.56	0.00
20 10 29 1		6.34	3.85	46.16	999.00	256.00	5.31	5.13		159.50	0.80	30.47	45.15	999.00	0.97	999.00	1.13	0.00
20 10 29 2		5.12	3.06	46.25	999.00	263.40	4.50	6.20		114.60	1.00	21.49	45.13	999.00	1.35	999.00	1.13	0.00
20 10 29 3		1.92	22.01	46.23	999.00	199.90	3.45	15.32		166.90	3.15	14.32	45.38	999.00	0.53	999.00	0.52	0.00
20 10 29 4		3.01	28.63	45.52	999.00	269.10	3.43	22.10	45.70	280.90	1.94	35.07	45.28	999.00	0.33	999.00	0.32	0.00
20 10 29 6	14.12	4.10	15.99	45.33	999.00	356.00	3.81	11.57		279.70	2.36	39.80	45.71	999.00	-0.54	999.00	-0.19	0.00
20 10 29 7	55.94	3.88	15.41	45.82	999.00	46.04	1.93	29.33	46.10	178.30	2.20	12.69	46.15	999.00	0.41	999.00	0.67	0.04
20 10 29 7	44.70	8.12	9.01	46.39	999.00	37.59	7.68	9.31	46.63	36.47	4.61	27.20	46.13	999.00	-0.96	999.00	-0.51	0.04
20 10 29 9	41.40	8.81	8.34	46.17	999.00	36.55	8.28	9.26	46.70	43.92	6.53	12.05	47.32	999.00	-0.56	999.00	-0.03	0.05
20 10 29 10	35.89	10.67	7.51	45.48	999.00	30.87	9.45	7.85	46.02	27.95	8.89	8.96	44.10	999.00	1.55	999.00	2.08	0.09
20 10 29 10	31.70	14.35	5.40	45.11	999.00	26.32	12.52	6.45	45.05	24.69	12.80	8.81	44.70	999.00	0.35	999.00	0.16	0.03
20 10 29 11	40.53	15.77	4.68	45.15	999.00	35.52	15.00	6.07	45.41	36.82	11.05	10.89	44.51	999.00	0.54	999.00	1.08	0.00
20 10 29 12	30.98	14.01	6.15	46.02	999.00	26.31	11.76	6.51	46.59	25.34	11.01	9.80	47.08	999.00	-1.67	999.00	-1.11	0.00
20 10 29 14	20.90	15.79	6.61	45.76	999.00	17.56	12.58	7.15	46.32	17.05	12.72	10.04	46.98	999.00	-0.65	999.00	-0.09	0.00
20 10 29 15	19.80	18.74	6.19	46.17	999.00	16.98	14.95	7.13	46.78	12.96	13.23	11.09	47.72	999.00	-1.78	999.00	-1.14	0.00
20 10 29 16	14.99	16.09	9.08	47.18	999.00	10.51	13.56	9.88	47.78	5.26	13.24	9.80	49.01	999.00	-1.87	999.00	-1.29	0.00
20 10 29 17	15.48	16.53	8.54	48.50	999.00	9.95	14.12	10.44	49.04	6.82	13.14	10.39	50.26	999.00	-1.72	999.00	-1.19	0.00
20 10 29 18	0.78	22.98	5.45	48.49	999.00	355.40	21.05	6.25	49.04	353.40	17.33	9.02	50.25	999.00	-1.79	999.00	-1.24	0.00
20 10 29 19	356.30	26.17	3.12	47.30	999.00	351.60	24.43	4.50	47.86	347.70	18.64	7.50	49.10	999.00	-1.80	999.00	-1.23	0.00
20 10 29 20	3.09	24.31	7.09	46.66	999.00	359.30	22.16	7.96	47.22	359.70	19.04	9.87	48.47	999.00	-1.80	999.00	-1.25	0.00
20 10 29 21	6.46	27.48	8.30	46.50	999.00	2.94	24.48	9.26	47.06	1.08	21.99	9.23	48.25	999.00	-1.76	999.00	-1.20	0.00
20 10 29 22	12.73	27.57	8.73	46.50	999.00	7.43	24.07	8.76	47.06	5.32	23.34	10.03	48.25	999.00	-1.73	999.00	-1.22	0.00
20 10 29 23	16.91	27.39	7.26		999.00	12.39	22.39	8.10	44.99	8.56	20.17	10.15	46.24		-1.83	999.00	-1.26	0.00
20 10 29 24		26.02	8.60		999.00	5.09	23.55	9.14	44.06	4.30	21.45	9.67			-1.77		-1.23	0.00
20 10 30 1		26.60	6.02		999.00		24.31	6.80		351.30	19.57			999.00		999.00	-1.29	0.00
20 10 30 1		25.50	6.25		999.00		24.58	7.06		341.60	17.43	8.73		999.00		999.00	-1.23	0.00
20 10 30 2		23.32	4.38		999.00		22.19	5.62		333.50	16.03	8.39		999.00		999.00	-1.18	0.00
20 10 30 3		23.13	5.81		999.00		22.21	6.93		334.80	15.58	9.37		999.00		999.00	-1.22	0.00
20 10 30 5		23.27	3.79		999.00		22.83	4.32		337.00	15.79	8.51		999.00		999.00	-1.21	0.00
20 10 30 6		18.96	4.61		999.00		18.70	5.46		337.80	14.07	9.68		999.00		999.00	-1.23	0.00
20 10 30 7		18.57	4.91		999.00		17.82	5.39		334.90	13.09	9.54		999.00		999.00	-1.22	0.00
20 10 30 7			5.46			334.10		6.05		329.60		11.66		999.00		999.00	-1.17	0.00
	010.20	, ,	J • 10	JJ•±1	222.00	001.10	-0.10	J. 00	00.00	222.00			10.00	222.00	- • / -	222.00		J. J.

00 10 00 0 00 50	16.00	- 45	00 05	000 00	200 50	16.04	6 0 0	00.61	010 10	10.60	11 00	40 55	000 00	1 50	000 00		0 00
20 10 30 9 327.50	16.90	5.47	39.05		322.70	16.24	6.27		319.10	10.62	11.92		999.00		999.00	-1.16	0.00
20 10 30 10 321.90	15.82	8.10	38.63	999.00		15.19	8.15		313.30	10.37	11.44	40.46	999.00	-1.92		-1.34	0.00
20 10 30 11 325.30	15.46	5.28	38.23	999.00	320.00	15.07	5.87		315.70	10.75	11.59	40.33	999.00	-2.20		-1.56	0.00
20 10 30 12 317.60	16.78	6.06	38.09	999.00	311.50	16.28	6.97		305.30	12.67	10.87	40.40	999.00	-2.39		-1.72	0.00
20 10 30 13 318.20	16.50	7.82	37.93		312.50	16.45	8.57	38.60	306.90	11.90	13.98	40.45	999.00	-2.48	999.00	-1.84	0.00
20 10 30 14 316.30	16.53	6.91	38.35	999.00	311.90	16.22	7.61	39.08	310.90	12.51	12.11	40.95	999.00	-2.75	999.00	-1.95	0.00
20 10 30 15 314.10	15.99	7.24	38.44	999.00	310.20	15.72	6.41		309.40	11.12	11.87	41.06	999.00	-2.41		-1.77	0.00
20 10 30 16 310.60	16.30	8.54	38.55	999.00	304.90	16.02	9.70		299.50	11.31	14.61	40.90	999.00	-2.20	999.00	-1.57	0.00
20 10 30 17 309.80	13.54	7.80	38.38	999.00	304.20	13.41	8.92		302.50	9.09	14.53	40.55	999.00	-2.21	999.00	-1.58	0.00
20 10 30 18 313.30	9.71	13.15	38.53	999.00	309.20	9.42	13.49	39.10	306.50	6.63	13.06	40.42	999.00	-1.69	999.00	-1.16	0.00
20 10 30 19 307.80	15.47	6.02	38.80	999.00	301.70	14.97	6.66	39.32	296.40	8.51	13.33	40.24	999.00	-1.32	999.00	-0.80	0.00
20 10 30 20 340.40	7.86	12.70	38.61	999.00	335.80	7.72	13.17	39.13	327.40	5.27	15.19	40.00	999.00	-1.52	999.00	-0.99	0.00
20 10 30 21 311.40	10.90	6.26	38.29	999.00	305.60	10.33	7.34	38.76	293.40	5.64	14.61	39.41	999.00	-0.85	999.00	-0.39	0.00
20 10 30 22 326.70	11.97	8.99	38.15	999.00	322.30	11.38	11.10	38.66	320.50	7.21	15.65	39.48	999.00	-1.40	999.00	-0.89	0.00
20 10 30 23 344.10	12.00	10.46	37.82	999.00	342.00	12.23	13.26	38.32	338.20	9.56	14.21	39.12	999.00	-1.49	999.00	-0.99	0.00
20 10 30 24 332.40	7.25	5.25	37.62	999.00	327.60	7.30	5.41	38.12	318.30	5.38	10.59	38.97	999.00	-1.27	999.00	-0.78	0.00
20 10 31 1 356.00	5.59	8.33	37.44	999.00	351.40	5.84	7.48	37.95	345.60	5.11	10.16	38.85	999.00	-1.48	999.00	-0.98	0.00
20 10 31 2 16.23	3.54	14.19	37.60	999.00	6.83	3.22	14.76	38.10	12.17	2.16	44.67	39.27	999.00	-1.55	999.00	-1.06	0.00
20 10 31 3 6.44	2.25	22.52	37.41	999.00	357.90	1.93	19.15	37.82	280.00	1.60	18.42	38.38	999.00	-0.37	999.00	0.04	0.00
20 10 31 4 315.70	2.30	9.83	37.20	999.00	305.50	2.20	12.43	37.55	226.60	3.64	6.52	36.61	999.00	1.58	999.00	1.88	0.00
20 10 31 5 256.30	2.92	2.34	37.31	999.00	248.40	3.64	4.13	37.50	226.10	3.99	6.56	35.14	999.00	2.35	999.00	2.40	0.00
20 10 31 6 186.00	4.36	9.07	37.01	999.00	197.00	4.02	13.52	37.08	187.00	2.71	11.29	32.30	999.00	4.64	999.00	4.73	0.00
20 10 31 7 174.30	6.73	6.18	36.95	999.00	179.80	5.70	3.22		193.90	2.08	8.88	32.77	999.00	3.89	999.00	3.72	0.00
20 10 31 8 156.40	8.40	1.48	37.29		151.30	7.93	1.62		164.40	2.02	4.89	33.64	999.00	3.41	999.00	3.51	0.00
20 10 31 9 169.80	11.48	1.16	37.29	999.00		10.41	0.62		162.00	2.71	8.52	33.64	999.00	3.09	999.00	3.14	0.00
20 10 31 10 162.60	12.98	4.36	36.81	999.00		10.42	6.82		154.00	5.15	16.79	36.26	999.00	-1.53	999.00	-0.68	0.00
20 10 31 11 162.20	13.30	5.40	37.69	999.00		12.91	6.11		155.10	7.67	14.84	40.08	999.00	-2.48	999.00	-1.31	0.00
20 10 31 12 171.20	14.91	8.49	39.68	999.00		14.35	10.11		168.00	8.55	17.91	42.43	999.00	-2.86	999.00	-1.59	0.00
20 10 31 13 167.50	14.76	7.73	41.54	999.00		14.13	10.24		162.20	8.75	20.61	44.35	999.00	-2.82	999.00	-1.63	0.00
20 10 31 14 183.40	13.62	11.99	43.45	999.00		13.27	12.01		176.70	8.07	22.51	46.28	999.00	-2.90	999.00	-1.78	0.00
20 10 31 15 184.60	16.02	9.76	45.33	999.00		15.20	9.22		181.80	9.75	15.04	48.22	999.00	-2.77		-1.89	0.00
20 10 31 16 187.30	15.33	11.21	46.91	999.00		14.78	11.95		181.00	8.06	19.66	49.48	999.00	-2.42	999.00	-1.67	0.00
20 10 31 17 174.90	15.69	6.75	48.08	999.00		14.83	7.33		169.90	8.68	16.49	50.31	999.00	-2.12	999.00	-1.19	0.00
20 10 31 18 173.50	15.74	5.33	48.68	999.00		14.03	7.14		172.50	7.17	17.03	50.41	999.00	-1.46	999.00	-0.78	0.00
20 10 31 19 168.30	18.02	3.32	48.25	999.00		15.93	4.10		157.40	6.20	13.81	48.71	999.00	0.10		0.29	0.00
20 10 31 20 166.60	19.69	3.66	47.45	999.00		16.68	4.60		159.30	6.31	13.41	47.42	999.00		999.00	0.18	0.00
20 10 31 20 100.00	18.98	2.86	46.59	999.00		15.40	3.95		166.60	5.01	14.20	46.26	999.00	0.63	999.00	0.45	0.00
20 10 31 21 177.40	20.02	3.36	45.84	999.00		16.33	4.38		168.40	5.10	14.42	45.03	999.00	0.64	999.00	0.45	0.00
20 10 31 22 173.30	24.01	3.84	45.49	999.00		20.12	4.35		179.30	9.13	12.76	45.06	999.00	0.23	999.00	0.14	0.00
20 10 31 23 104.30	24.01	4.32	45.93	999.00		20.12	4.82		188.20	9.82	13.15	45.94	999.00	-0.23	999.00	-0.15	0.00
20 10 31 24 191.00	26.66	3.85	46.98	999.00		23.25	4.83		192.70	10.39	13.13	47.44	999.00	-0.42	999.00	-0.26	0.00
20 11 1 1 190.00	27.41	4.72	47.33	999.00		24.43	5.12		189.60	11.62	14.46	47.87	999.00	-0.57		-0.36	0.00
20 11 1 2 194.30	30.81	5.06	47.33			27.07	6.23		190.40	13.31	13.96		999.00		999.00	-0.38	0.00
20 11 1 3 197.10								47.76					999.00				
		3.62		999.00		27.34									999.00	-0.25	0.00
20 11 1 5 209.30	25.63	3.98		999.00		22.27	4.43		197.90	11.14	12.45		999.00		999.00	-0.30	0.00
20 11 1 6 235.10	28.37	5.03		999.00		26.90	5.34		226.10	17.79	9.51		999.00		999.00	-0.35	0.00
20 11 1 7 230.40	26.99	4.99		999.00		24.62	5.54		219.50	16.76	9.25		999.00		999.00	-0.41	0.03
20 11 1 8 235.40	25.06	4.54		999.00		23.09	5.04		224.10	15.38	8.86		999.00		999.00	0.04	0.00
20 11 1 9 283.80	20.24	5.89		999.00		18.13	6.04		269.20	10.76	9.50		999.00		999.00	-0.46	0.00
20 11 1 10 265.40	23.25	6.34		999.00		21.89	6.58		252.30	13.84	11.55		999.00		999.00	-1.17	0.00
20 11 1 11 269.50	31.67	8.61		999.00		29.54	9.53		257.80	20.15	12.00		999.00		999.00	-1.57	0.00
20 11 1 12 280.70	32.46	4.76	40.10	999.00	2/4.40	31.34	5.22	40.70	268.10	22.14	9.97	41.97	999.00	-1.88	999.00	-1.30	0.00

20 11 1 12 202 60	20 02 11 05	20 72 000 00 076	0 20 00 1	11 00	40 22 267 50	01 70	10 [1	41 50 000 00	1 00 000 00	1 1 5	0 00
20 11 1 13 282.60	32.93 11.05				40.33 267.50	21.78	13.51	41.58 999.00	-1.82 999.00	-1.15	0.00
20 11 1 14 279.70	34.12 6.56				36.34 267.40	23.48	12.86	37.67 999.00	-2.12 999.00	-1.50	0.00
20 11 1 15 299.20	36.38 6.20				35.73 287.00	22.24	13.18	37.29 999.00	-2.06 999.00	-1.42	0.00
20 11 1 16 278.90	30.55 6.02				35.67 266.30	20.95	10.86	37.23 999.00	-2.17 999.00	-1.56	0.00
20 11 1 17 274.70	28.01 5.42				35.47 262.20	17.68	10.02	36.79 999.00	-1.55 999.00	-1.00	0.00
20 11 1 18 281.30	29.82 5.07				34.67 269.40	18.95	10.29	35.46 999.00	-1.13 999.00	-0.65	0.00
20 11 1 19 277.50	29.18 5.13				34.10 264.50	19.53	9.12	34.85 999.00	-1.17 999.00	-0.69	0.00
20 11 1 20 277.90	26.14 4.76				33.44 262.90	16.02	9.34	34.00 999.00	-0.96 999.00	-0.55	0.00
20 11 1 21 286.20	25.64 7.22				32.86 268.80	15.26	9.75	33.38 999.00	-0.66 999.00	-0.38	0.00
20 11 1 22 297.10	33.10 6.90				33.97 281.70	21.42	10.56	34.53 999.00	-1.08 999.00	-0.60	0.00
20 11 1 23 301.10	32.92 5.77				34.29 286.80	19.96	11.18	34.95 999.00	-1.23 999.00	-0.72	0.00
20 11 1 24 297.60	27.26 7.63				34.14 283.50	17.22	11.95	34.95 999.00	-1.44 999.00	-0.88	0.00
20 11 2 1 314.50	29.22 8.24				33.97 302.40	18.41	12.15	34.92 999.00	-1.52 999.00	-0.96	0.00
20 11 2 2 320.20	35.58 6.22	33.05 999.00 314.	33.70	7.31	33.61 310.10	22.43	10.99	34.55 999.00	-1.45 999.00	-0.90	0.00
20 11 2 3 316.60	32.69 7.11	32.80 999.00 310.	31.58	8.12	33.36 307.40	21.13	12.69	34.25 999.00	-1.44 999.00	-0.89	0.00
20 11 2 4 315.30	27.82 6.08	32.54 999.00 309.	27.07	6.67	33.07 306.30	18.01	11.00	33.91 999.00	-1.37 999.00	-0.83	0.00
20 11 2 5 288.60	17.40 6.54	31.91 999.00 277.	15.75	6.45	32.37 257.40	9.09	10.43	32.96 999.00	-0.49 999.00	-0.20	0.00
20 11 2 6 285.20	20.37 1.75	30.39 999.00 273.	18.09	2.73	30.30 252.00	8.94	8.79	29.99 999.00	0.66 999.00	0.47	0.00
20 11 2 7 284.30	20.28 3.77	30.15 999.00 272.	18.80	4.32	30.05 251.60	9.28	9.34	29.35 999.00	0.77 999.00	0.76	0.00
20 11 2 8 264.50	18.31 4.20	29.47 999.00 248.	15.22	5.46 2	29.03 233.20	9.20	8.73	28.84 999.00	0.25 999.00	-0.37	0.00
20 11 2 9 253.60	16.62 4.96	28.87 999.00 246.	14.69	5.55 2	29.07 238.70	9.08	10.03	30.12 999.00	-1.65 999.00	-1.29	0.00
20 11 2 10 253.80	14.51 7.88	30.62 999.00 246.	14.08	7.82	31.31 239.10	11.44	11.72	32.91 999.00	-2.44 999.00	-1.71	0.00
20 11 2 11 258.20	20.07 7.72	33.30 999.00 253.	18.71	9.06	34.05 249.10	14.00	13.97	36.19 999.00	-2.86 999.00	-2.18	0.00
20 11 2 12 247.60	19.01 7.99	35.75 999.00 242.	0 18.03	8.59	36.44 233.10	13.87	11.55	38.60 999.00	-2.75 999.00	-2.09	0.00
20 11 2 13 246.80	24.53 6.07	38.19 999.00 241.	23.93	6.72	38.83 237.10	17.16	11.78	41.04 999.00	-2.70 999.00	-2.13	0.00
20 11 2 14 243.30	24.56 6.52	40.70 999.00 237.	00 23.47	7.23	41.27 233.00	17.93	11.06	43.63 999.00	-2.81 999.00	-2.22	0.00
20 11 2 15 232.30	27.32 4.81	41.92 999.00 226.	26.09	5.93	42.51 223.60	19.55	9.16	44.19 999.00	-2.57 999.00	-2.00	0.00
20 11 2 16 244.10	29.93 4.52	42.81 999.00 238.	0 28.40	4.97	43.39 235.50	19.49	9.91	44.90 999.00	-1.83 999.00	-1.25	0.00
20 11 2 17 235.70	28.30 4.02	43.55 999.00 230.	0 26.95	4.84	44.08 226.20	19.24	8.57	44.96 999.00	-1.26 999.00	-0.74	0.00
20 11 2 18 232.50	30.59 4.18	43.30 999.00 227.	28.42	4.86	43.78 223.80	18.87	8.69	44.40 999.00	-1.04 999.00	-0.57	0.00
20 11 2 19 234.30	30.72 4.86	42.83 999.00 229.	28.37	5.45	43.29 224.50	19.36	8.62	43.86 999.00	-0.96 999.00	-0.52	0.00
20 11 2 20 239.20	31.66 4.74	42.79 999.00 233.	29.66	5.34	43.23 227.20	20.25	8.94	43.69 999.00	-0.93 999.00	-0.47	0.00
20 11 2 21 241.40	28.91 4.59	41.87 999.00 235.	.0 26.73	5.01	42.30 229.90	17.25	8.99	42.77 999.00	-0.81 999.00	-0.39	0.00
20 11 2 22 245.60	31.54 4.94	41.41 999.00 240.	29.20	5.35	41.85 233.50	18.61	9.27	42.42 999.00	-1.07 999.00	-0.60	0.00
20 11 2 23 242.40	27.92 4.54	40.66 999.00 236.	25.83	4.75	41.08 230.10	16.15	8.72	41.55 999.00	-0.70 999.00	-0.30	0.00
20 11 2 24 246.40	27.03 4.95	39.75 999.00 240.	24.11	5.47	40.15 234.10	15.47	8.87	40.64 999.00	-0.97 999.00	-0.57	0.00
20 11 3 1 245.10	23.79 4.73	38.81 999.00 238.	.0 21.47	4.80	39.22 231.00	13.94	8.68	39.74 999.00	-0.79 999.00	-0.41	0.00
20 11 3 2 241.60	22.26 3.85	38.13 999.00 234.	19.66	4.14	38.40 222.50	11.57	8.25	38.58 999.00	-0.23 999.00	-0.02	0.00
20 11 3 3 236.40	24.49 2.87	37.55 999.00 228.	21.69	3.10	37.63 219.50	12.54	8.53	37.51 999.00	0.14 999.00	0.17	0.00
20 11 3 4 240.90	26.55 2.46	37.53 999.00 233.	30 23.17	3.46	37.59 226.80	13.77	8.12	37.60 999.00	0.00 999.00	-0.01	0.00
20 11 3 5 242.10	22.82 3.46	37.24 999.00 236.	.0 20.07	3.79	37.30 229.20	11.51	8.97	37.42 999.00	-0.30 999.00	-0.16	0.00
20 11 3 6 240.30	21.73 2.76	36.70 999.00 231.	18.84	3.58	36.76 216.80	11.18	7.79	36.73 999.00	0.23 999.00	0.19	0.00
20 11 3 7 235.80	20.43 2.95				36.45 218.00	9.72	9.13	36.44 999.00	-0.16 999.00	-0.05	0.00
20 11 3 8 228.60	17.64 3.59	36.48 999.00 217.	14.66	4.74	36.53 195.90	6.62	11.84	36.39 999.00	0.22 999.00	0.25	0.00
20 11 3 9 229.70	14.47 4.97	36.92 999.00 222.	12.85	5.11 3	37.12 216.90	9.47	8.55	37.96 999.00	-1.83 999.00	-1.33	0.00
20 11 3 10 232.80	14.26 4.14	39.86 999.00 227.	13.85	5.01	40.51 225.40	10.61	9.47	42.14 999.00	-2.55 999.00	-1.89	0.00
20 11 3 11 233.10	12.12 4.99	42.91 999.00 227.	11.88	5.81 4	43.57 224.40	8.70	10.80	45.48 999.00	-2.47 999.00	-1.86	0.00
20 11 3 12 209.00	10.57 7.95	46.63 999.00 204.	9.86	9.75	47.44 206.30	7.42	16.19	49.50 999.00	-2.96 999.00	-2.06	0.00
20 11 3 13 224.00	13.07 8.97				51.04 217.40	9.50	13.94	53.24 999.00	-2.89 999.00	-2.27	0.00
20 11 3 14 228.40	14.83 7.28				53.76 224.10	11.44	9.41	55.94 999.00	-2.57 999.00	-2.14	0.00
20 11 3 15 229.60	17.65 5.71				56.56 222.80	12.43	10.77	58.25 999.00	-2.12 999.00	-1.58	0.00
20 11 3 16 229.70	19.26 5.05	57.73 999.00 224.	0 18.44	5.99 5	58.33 222.00	12.41	9.48	59.28 999.00	-1.09 999.00	-0.49	0.00

00 11 0 15 010 00	10 10 10	1 50 00	000 00 014 00	16.00	4 0 0	F0 00	010 00	0 10	0 00	F 0 0 1	00000	0 51	00000	0 00	0 00
20 11 3 17 219.90	18.12 4.83		999.00 214.80	16.32	4.97		212.20	9.13	9.38		999.00		999.00	-0.09	0.00
20 11 3 18 217.80	19.70 1.99		999.00 208.20	17.16	2.08		194.20	5.77	11.17	59.81	999.00	2.48	999.00	2.43	0.00
20 11 3 19 214.30	23.47 1.93		999.00 203.30	19.21	2.28		188.70	6.24	10.66	56.13	999.00		999.00	3.12	0.00
20 11 3 20 213.90	25.76 2.84		999.00 204.50	19.99	2.53		198.40	6.66	10.55	54.46	999.00		999.00	3.21	0.00
20 11 3 21 210.00	24.18 2.55	5 59.09	999.00 200.70	19.28	3.30	57.79	190.80	5.71	10.69	54.46	999.00	3.12	999.00	2.44	0.00
20 11 3 22 210.90	23.60 2.75	5 54.55	999.00 201.60	19.16	3.22	53.94	193.00	6.52	12.18	51.93	999.00	2.38	999.00	1.83	0.00
20 11 3 23 214.60	25.32 2.09	9 53.48	999.00 205.10	20.46	2.26	52.65	196.10	7.39	11.29	50.67	999.00	3.06	999.00	2.27	0.00
20 11 3 24 207.40	24.62 2.25	5 52.76	999.00 198.30	20.74	2.31	52.15	186.60	7.86	11.20	49.88	999.00	2.63	999.00	2.15	0.00
20 11 4 1 211.50	22.81 2.29	9 51.49	999.00 204.00	18.24	2.82	50.95	198.60	6.76	11.60	49.38	999.00	2.03	999.00	1.54	0.00
20 11 4 2 215.10	23.92 2.09	9 51.06	999.00 203.70	19.65	2.06	50.30	189.90	6.79	11.30	48.02	999.00	3.60	999.00	2.79	0.00
20 11 4 3 202.70	22.44 1.95		999.00 192.10	17.84	2.97		181.90	5.70	11.46	46.76	999.00	2.66	999.00	1.70	0.00
20 11 4 4 201.50	24.84 2.33		999.00 192.50	19.99	3.52		188.10	6.73	12.49	46.76	999.00	2.13	999.00	1.26	0.00
20 11 4 5 204.40	25.74 1.58		999.00 194.60	21.04	2.87		191.30	7.79	12.81	46.56	999.00	2.35	999.00	1.26	0.00
20 11 4 6 201.80	999.00 2.3		999.00 192.90	20.15	3.94		188.60	7.72	12.44	46.56	999.00	1.42	999.00	0.75	0.00
20 11 4 7 197.30	24.80 2.83		999.00 190.30	20.21	3.52		191.20	8.42	13.86	46.37	999.00	0.90	999.00	0.38	0.00
20 11 4 7 197.30			999.00 190.50		3.32		193.00		13.19	46.37	999.00		999.00		0.00
	27.14 2.48			23.38				10.45				0.11		0.04	
20 11 4 9 206.80	22.34 5.10		999.00 200.90	18.73	5.84		204.00	11.23	11.78	48.87	999.00	-1.33	999.00	-0.95	0.00
20 11 4 10 208.90	20.03 6.23		999.00 202.40	18.60	6.74		204.60	12.21	13.02	53.06	999.00	-2.20	999.00	-1.60	0.00
20 11 4 11 207.00	19.81 5.89		999.00 200.80	18.74	6.39		200.40	12.13	13.11	57.62	999.00	-2.45	999.00	-1.79	0.00
20 11 4 12 206.50	21.45 5.89		999.00 202.40	19.93	6.07		201.20	12.62	14.27	62.51	999.00	-2.44	999.00	-1.80	0.00
20 11 4 13 203.30	21.09 6.96		999.00 198.40	20.24	7.74		200.10	12.69	13.24	66.15	999.00		999.00	-1.76	0.00
20 11 4 14 200.90	21.86 7.46		999.00 195.60	20.83	8.17		195.60	12.69	13.88	69.18	999.00	-2.23	999.00	-1.69	0.00
20 11 4 15 210.10	25.52 5.63		999.00 205.50	23.86	6.36		206.50	14.68	11.94	71.50	999.00	-1.91	999.00	-1.35	0.00
20 11 4 16 200.70	25.48 5.04		999.00 195.60	23.68	5.50		193.70	12.31	14.05	71.82	999.00	-1.38	999.00	-0.76	0.00
20 11 4 17 203.40	22.46 4.26	6 69.52	999.00 198.10	20.26	5.05	70.04	197.10	10.10	12.76	70.50	999.00	-0.63	999.00	-0.18	0.00
20 11 4 18 198.50	23.64 3.2	7 67.76	999.00 191.80	20.24	3.85	67.98	187.80	7.74	13.48	67.38	999.00	0.99	999.00	0.98	0.00
20 11 4 19 194.10	23.62 3.00	0 65.37	999.00 186.90	19.76	3.91	65.22	182.20	7.73	11.72	63.95	999.00	1.68	999.00	1.41	0.00
20 11 4 20 195.70	26.68 2.84	4 62.94	999.00 189.30	21.91	3.70	62.62	187.60	8.17	13.25	61.48	999.00	1.44	999.00	1.00	0.00
20 11 4 21 196.60	26.01 3.80	0 61.21	999.00 191.70	22.05	4.33	60.93	193.10	8.48	14.11	60.13	999.00	0.88	999.00	0.72	0.00
20 11 4 22 195.80	27.41 3.20	0 60.34	999.00 190.60	23.65	4.08	60.30	189.30	10.30	13.35	59.80	999.00	0.46	999.00	0.44	0.00
20 11 4 23 200.20	27.15 3.36		999.00 193.90	23.53	3.70		191.90	10.02	12.48	58.40	999.00	0.71	999.00	0.58	0.00
20 11 4 24 203.40	24.97 4.05		999.00 197.10	21.80	4.01		195.10	9.09	12.29	57.38	999.00	0.65	999.00	0.67	0.00
20 11 5 1 205.40	22.97 3.2		999.00 198.60	19.18	3.88		196.20	7.54	12.63	56.26	999.00	0.81	999.00	0.68	0.00
20 11 5 2 204.30	24.60 2.69		999.00 196.60	20.54	2.93		186.70	7.77	12.21	54.80	999.00	1.75	999.00	1.35	0.00
20 11 5 3 204.70	25.13 2.38		999.00 195.90	21.36	2.96		190.50	7.91	13.88	54.08	999.00	1.68	999.00	1.00	0.00
20 11 5 4 207.90	25.65 2.86		999.00 199.60	21.05	3.03		190.00	7.94	13.41	53.01	999.00	2.23	999.00	1.60	0.00
20 11 5 4 207.30	26.56 2.83		999.00 200.20	21.59	3.18		189.10	8.34	12.48	52.64	999.00	2.76	999.00	1.81	0.00
20 11 5 6 211.60			999.00 202.50	21.39	4.02		195.70	8.19	12.40	52.69		2.70	999.00		0.00
											999.00			1.56	
20 11 5 7 214.30	23.14 2.75		999.00 205.00	18.61	2.98		191.80	6.70	11.68	53.67	999.00	2.09	999.00	1.49	0.00
20 11 5 8 221.20	22.57 3.0		999.00 208.20	18.58	3.18		188.20	6.74	11.77	53.67	999.00	2.93	999.00	2.02	0.00
20 11 5 9 220.70	18.95 3.72		999.00 205.30	15.31	4.36		187.20	6.73	12.10	53.99	999.00	1.41	999.00	0.56	0.00
20 11 5 10 219.60	17.24 7.63		999.00 210.30	14.91	7.89		201.70	9.49	12.73	57.38	999.00	-1.67	999.00	-1.37	0.00
20 11 5 11 226.00	21.74 4.96		999.00 221.80	20.53	5.72		219.20	14.54	9.41		999.00		999.00	-0.91	0.00
20 11 5 12 223.30			999.00 217.90	22.00		999.00			9.26				999.00	-0.84	0.00
20 11 5 13 218.50	20.27 6.00		999.00 213.50	18.67	6.33		212.80	11.97	10.53		999.00		999.00	-0.98	0.00
20 11 5 14 212.00	19.20 6.00		999.00 206.90	17.95	5.83		205.10	10.99	13.31		999.00		999.00	-1.09	0.00
20 11 5 15 209.40	21.90 3.50	0 62.32	999.00 204.30	20.54	4.16		203.10	12.20	11.73	64.18	999.00	-1.97	999.00	-1.44	0.00
20 11 5 16 215.50	19.09 5.20	6 63.34	999.00 209.20	17.24	6.15	63.87	209.30	10.10	12.33	64.76	999.00	-1.15	999.00	-0.67	0.00
20 11 5 17 228.30	17.46 4.28	8 63.51	999.00 222.80	15.36	4.77	63.85	215.70	8.01	8.93	63.51	999.00	0.16	999.00	0.49	0.00
20 11 5 18 215.30	18.95 2.65	5 63.45	999.00 207.50	15.58	2.98	63.57	195.40	5.61	10.57	62.40	999.00	1.75	999.00	1.67	0.00
20 11 5 19 209.10	20.16 3.09		999.00 199.20	16.75	3.07		180.50	5.83	8.99	60.63	999.00		999.00	2.63	0.00
20 11 5 20 207.80	22.92 3.49		999.00 202.20	19.65	3.55		199.10	8.65	12.20	59.96	999.00	0.71	999.00	0.78	0.00

00 11 5 01 000 60	00 40 0 45	F0 0F 0		00 10	0 50	60.06	00000	0 50	11 50	F0 00	000 00	0 50	000 00	0 64	0 00
20 11 5 21 208.60	23.49 3.47		999.00 202.80	20.18	3.78		200.00	9.50	11.78		999.00		999.00	0.64	0.00
20 11 5 22 214.60	23.01 2.76		999.00 207.30	19.03	3.55		202.80	8.13	12.20	57.65	999.00	0.85	999.00	0.73	0.00
20 11 5 23 212.70	21.60 2.68		999.00 205.00	18.00	2.79		197.50	6.79	12.17	55.94	999.00	1.33	999.00	1.20	0.00
20 11 5 24 214.70	22.07 1.78		999.00 204.20	17.84	2.44		194.10	6.04	11.87	53.86	999.00	2.38	999.00	1.74	0.00
20 11 6 1 214.30	21.98 2.05		999.00 204.60	17.47	2.57		196.00	5.19	13.04	52.64	999.00	2.31	999.00	1.66	0.00
20 11 6 2 220.30	21.92 1.74	54.61	999.00 210.60	18.04	2.10	53.95	202.30	6.37	9.90	51.94	999.00	3.04	999.00	2.36	0.00
20 11 6 3 222.10	21.66 1.45	54.77	999.00 210.30	17.72	1.99	54.11	193.50	5.17	10.79	51.44	999.00	3.72	999.00	2.96	0.00
20 11 6 4 220.30	21.85 1.64	54.22	999.00 205.20	17.51	2.18	52.93	188.40	5.56	10.42	50.27	999.00	4.20	999.00	2.61	0.00
20 11 6 5 220.90	23.05 2.38	53.22	999.00 207.10	18.42	3.03	51.56	199.10	5.42	10.93	49.05	999.00	4.20	999.00	2.56	0.00
20 11 6 6 224.70	23.15 1.62	52.97	999.00 211.60	19.32	1.97	51.72	196.90	6.48	10.66	48.94	999.00	4.31	999.00	3.07	0.00
20 11 6 7 226.50	23.18 1.55	52.66	999.00 212.60	18.66	1.88	51.27	197.70	6.70	10.83	48.46	999.00	4.49	999.00	2.94	0.00
20 11 6 8 229.20	21.83 2.45		999.00 218.40	17.94	2.73		199.10	6.80	9.32	48.15	999.00	3.56	999.00	2.73	0.00
20 11 6 9 229.80	18.31 3.60		999.00 219.90	15.29	4.86		210.60	7.89	9.83	50.78	999.00	-0.35	999.00	-0.41	0.00
20 11 6 10 228.00	16.06 4.85		999.00 222.50	15.29	4.97		219.50	11.57	8.41	55.45	999.00	-1.88	999.00	-1.28	0.00
20 11 6 11 218.10	13.90 5.96		999.00 213.70	13.41	7.06		211.60	9.84	12.43	59.65	999.00	-2.67	999.00	-2.00	0.00
20 11 6 12 220.20	14.69 6.86		999.00 215.00	14.17	7.18		215.40	10.06	11.27	62.84	999.00	-2.52	999.00	-1.89	0.00
20 11 6 12 220.20				14.17	8.43		215.40			65.91					0.00
	14.97 7.32							10.75	13.67		999.00	-2.61	999.00	-2.03	
20 11 6 14 228.00	18.96 5.34		999.00 222.80	18.28	5.62		221.10	12.43	9.84	68.05	999.00	-2.02	999.00	-1.56	0.00
20 11 6 15 225.00	19.49 5.05		999.00 220.80	18.75	5.26		217.60	13.15	10.83	68.86	999.00	-1.71	999.00	-1.12	0.00
20 11 6 16 215.70	18.61 5.10		999.00 210.70	16.84	6.27		210.50	10.76	11.32	69.12	999.00	-1.49	999.00	-0.86	0.00
20 11 6 17 221.70	18.34 3.67		999.00 216.30	16.61	4.39		211.90	8.85	9.88	68.52	999.00	-0.32	999.00	0.13	0.00
20 11 6 18 218.10	17.51 1.98		999.00 211.40	14.85	2.23		202.30	5.17	10.33	66.00	999.00	1.78	999.00	1.88	0.00
20 11 6 19 216.90	18.20 1.16		999.00 207.40	14.49	1.69		181.50	3.80	6.54	63.40	999.00	3.50	999.00	3.04	0.00
20 11 6 20 207.60	19.36 2.05		999.00 195.50	15.68	1.83		173.20	4.53	6.99	61.47	999.00	5.03	999.00	4.01	0.00
20 11 6 21 210.50	22.10 3.06	66.14	999.00 197.60	17.82	3.46	65.16	180.40	6.07	6.91	61.47	999.00	5.71	999.00	4.22	0.00
20 11 6 22 212.00	24.87 2.23	62.88	999.00 201.40	19.25	2.76	61.37	189.80	5.70	10.22	58.00	999.00	4.75	999.00	3.19	0.00
20 11 6 23 214.20	23.60 1.48	61.47	999.00 204.20	17.81	2.10	60.06	189.80	4.57	10.26	57.10	999.00	4.41	999.00	3.06	0.00
20 11 6 24 216.50	22.22 1.41	60.50	999.00 204.70	16.60	1.87	59.03	188.90	3.84	9.42	55.63	999.00	5.09	999.00	3.47	0.00
20 11 7 1 219.40	22.57 0.92	59.61	999.00 206.70	17.36	1.53	57.73	194.00	3.87	9.92	54.01	999.00	5.88	999.00	3.85	0.00
20 11 7 2 220.00	22.38 1.74	59.12	999.00 207.00	16.96	2.30	56.91	191.70	4.14	9.37	53.09	999.00	5.90	999.00	3.75	0.00
20 11 7 3 221.00	21.93 1.92	58.05	999.00 206.80	15.98	2.09	55.73	192.30	3.78	8.83	52.12	999.00	6.17	999.00	3.57	0.00
20 11 7 4 218.80	21.94 2.03		999.00 203.30	16.50	2.36		189.50	4.02	11.40	50.92	999.00	6.12	999.00	3.49	0.00
20 11 7 5 224.10	23.03 1.52		999.00 206.60	17.50	2.01		191.90	5.48	8.58	50.22	999.00	7.33	999.00	3.89	0.00
20 11 7 6 229.30	23.30 1.04		999.00 213.60	17.88	1.61		196.20	6.20	8.68	49.21	999.00	7.14	999.00	4.18	0.00
20 11 7 7 225.80	21.54 1.81		999.00 208.50	17.43	2.42		184.90	5.99	8.70	48.58	999.00	7.25	999.00	4.63	0.00
20 11 7 8 226.50	20.04 1.75		999.00 207.30	16.63	2.65		178.30	5.67	6.72	48.00	999.00		999.00	4.77	0.00
20 11 7 9 218.70	19.17 3.73		999.00 203.00	13.83	5.12		192.60	5.46	11.17	49.51	999.00	2.86	999.00	0.41	0.00
20 11 7 9 210.70	14.30 4.56		999.00 201.60	13.01	5.14		201.80	8.14	11.27	54.42	999.00	-1.60	999.00	-1.31	0.00
20 11 7 10 212.10			999.00 201.00	11.33			201.80	8.55	12.85	59.65		-2.54	999.00	-1.78	0.00
					7.70						999.00				
20 11 7 12 223.00	13.54 5.41		999.00 217.60	13.23	5.80		214.50	9.34	10.94	59.65	999.00	-2.65	999.00	-1.95	0.00
20 11 7 13 223.80	13.46 8.87		999.00 218.90	12.77	9.22		216.80	9.33	13.64	67.01	999.00	-2.72	999.00	-2.12	0.00
20 11 7 14 223.20	15.73 7.71		999.00 218.80	14.89	8.11	66.85	219.40	10.90	11.26	68.88	999.00	-2.48	999.00	-2.03	0.00
20 11 7 15 223.90	14.45 6.18		999.00 219.30	13.96	5.88		217.00	10.01	10.72		999.00		999.00	-1.38	0.00
	12.85 7.75			11.92	8.88	69.01					999.00	-1.44		-0.74	0.00
20 11 7 17 204.40	11.90 3.06		999.00 198.90	10.79	3.87		197.30	4.03	10.67		999.00		999.00	0.16	0.00
20 11 7 18 198.70	15.84 1.26		999.00 192.10	13.43	1.33		180.00	3.68	7.16		999.00		999.00	2.70	0.00
20 11 7 19 204.10	15.28 0.93	67.95	999.00 196.90	12.88	0.83		173.80	2.81	6.93		999.00	4.63	999.00	4.24	0.00
20 11 7 20 190.80	14.48 1.38	66.68	999.00 182.10	14.37	1.11	66.13	160.80	2.36	7.76	61.92	999.00	5.11	999.00	4.82	0.00
20 11 7 21 190.80	15.94 1.71	66.86	999.00 182.50	14.43	1.62	66.32	150.30	3.27	6.19	60.33	999.00	7.15	999.00	6.30	0.00
20 11 7 22 194.20	21.55 0.68	66.73	999.00 185.90	17.84	0.97	65.72	162.70	4.03	7.19	59.26	999.00	7.09	999.00	5.86	0.00
20 11 7 23 192.70	20.45 0.76	65.68	999.00 183.30	15.90	1.01		172.40	3.63	6.25	58.68	999.00	6.21	999.00	4.41	0.00
20 11 7 24 203.20	21.89 0.63		999.00 191.80	16.02	1.17		181.00	4.23	6.97		999.00	7.84	999.00	4.68	0.00

00 11 0 1 005 10	01 70 1	05 64 07	000 00 104 00	17 07	0 00	61 10	171 70	4 1 5	6 40	F	000 00	000 00	000 00	E 01	0 00
20 11 8 1 205.10			999.00 194.80	17.27	0.88		171.70	4.15	6.40			999.00		5.81	0.00
20 11 8 2 206.30		.69 61.71	999.00 192.50	15.58	0.98		171.30	3.15	6.10	54.03	999.00	7.86	999.00	4.82	0.00
20 11 8 3 213.50		.13 61.35	999.00 199.30	17.16	1.44		166.40	3.98	6.76	53.22	999.00	999.00	999.00	7.68	0.00
20 11 8 4 213.90 20 11 8 5 220.00		.68 999.00 .49 999.00	999.00 195.50 999.00 198.80	17.17 16.63	1.69 1.99		180.70 179.80	4.08	6.85 5.81	52.70 51.85	999.00 999.00	999.00 999.00	999.00 999.00	6.34 7.97	0.00
								4.87							
20 11 8 6 223.80 20 11 8 7 236.90		.11 999.00	999.00 207.60 999.00 212.10	14.46	4.57	999.00	180.90	5.46	5.54	51.51	999.00	999.00	999.00	7.97	0.00
20 11 8 7 236.90 20 11 8 8 223.40		.81 999.00 .47 999.00	999.00 212.10	11.91 12.95	6.38 1.97		146.10	2.51 3.37	7.67 5.43	51.30 50.68	999.00	999.00 999.00	999.00 999.00	7.97 7.87	0.00
20 11 8 9 214.20		.47 999.00 .60 61.45	999.00 193.00	14.69	2.45		176.10	4.74	8.76	52.44	999.00	7.90	999.00	5.06	0.00
20 11 8 9 214.20			999.00 192.10		4.34		166.50	3.86	14.09	57.28	999.00	3.80	999.00		0.00
20 11 8 10 209.60		.59 63.14 .37 62.19	999.00 184.00	6.98 4.85	9.04		168.10	3.47	25.04	62.81	999.00	-2.30	999.00	0.88 0.14	0.00
20 11 8 12 159.90		.82 65.30	999.00 146.10	3.28	22.67		133.40	2.32	45.09	67.76	999.00	-2.24	999.00	-0.26	0.00
20 11 8 13 131.70		.73 67.86	999.00 119.30	5.25	12.76	69.08	67.60	5.78	5.31	69.08	999.00	-0.35	999.00	0.20	0.00
20 11 8 14 105.80		.52 68.66	999.00 89.20	7.62	2.45	68.86	73.90	6.16	9.78	68.11	999.00	2.17	999.00	2.34	0.00
20 11 8 15 113.50		.25 69.32	999.00 96.40	10.42	3.74	69.40	74.00	7.11	9.44	65.64	999.00	4.82	999.00	4.03	0.00
20 11 8 16 105.20		.82 68.90	999.00 92.40	12.26	3.97	67.85	72.10	5.93	10.86	64.76	999.00	4.98	999.00	3.57	0.00
20 11 8 17 112.00		.68 69.45	999.00 101.60	12.82	1.41	69.24	88.70	4.61	11.53	62.00	999.00	6.73	999.00	6.82	0.00
20 11 8 18 114.80		.59 68.25	999.00 103.50	15.68	1.17		100.00	5.54	9.18	61.57	999.00	6.78	999.00	5.16	0.00
20 11 8 19 131.70		.56 67.79	999.00 112.10	19.81	2.11	65.96	96.30	4.54	7.72	59.61	999.00	999.00	999.00	7.60	0.00
20 11 8 20 142.10		.07 999.00	999.00 133.30	17.10	2.33		104.40	6.02	6.12	58.46	999.00	999.00	999.00	7.97	0.00
20 11 8 21 149.30		.06 999.00	999.00 140.90	21.22	0.38	999.00		4.38	3.71	58.05	999.00	999.00	999.00	7.97	0.00
20 11 8 22 152.10		.28 999.00	999.00 145.10	19.95	1.91		136.70	4.77	7.19	60.23	999.00	999.00	999.00	5.48	0.00
20 11 8 23 159.40		.55 70.38	999.00 154.20	19.13	1.40		147.50	4.15	11.07	62.48	999.00	7.93	999.00	5.06	0.00
20 11 8 24 164.60		.06 69.55	999.00 157.60	18.43	1.47		149.60	3.47	10.88	61.64	999.00	7.97	999.00	5.15	0.00
20 11 9 1 169.30		.51 69.08	999.00 167.30	18.30	1.43		162.50	3.88	6.70	61.07	999.00	999.00	999.00	6.09	0.00
20 11 9 2 179.20		.27 999.00	999.00 171.40	18.90	0.68		159.50	3.51	8.41	60.39	999.00	999.00	999.00	6.36	0.00
20 11 9 3 176.40		.07 68.29	999.00 167.80	18.07	0.79		154.80	3.50	8.01	60.44	999.00	7.87	999.00	5.39	0.00
20 11 9 4 179.50		.12 67.73	999.00 164.60	17.65	0.30		152.40	4.28	6.44	59.66	999.00	999.00	999.00	6.37	0.00
20 11 9 5 175.40	18.57 0	.67 66.27	999.00 163.00	15.62	1.39	65.34	149.10	3.10	7.48	58.60	999.00	7.93	999.00	6.10	0.00
20 11 9 6 177.70	19.26 0	.87 65.86	999.00 167.50	17.87	1.54	63.98	154.00	3.69	6.20	57.95	999.00	7.97	999.00	6.61	0.00
20 11 9 7 185.60	22.19 0	.56 63.91	999.00 175.70	17.39	0.89	62.33	162.80	3.96	5.83	56.60	999.00	6.76	999.00	5.31	0.00
20 11 9 8 190.40	23.13 1	.29 63.00	999.00 178.80	18.82	1.16	61.30	168.70	4.06	6.68	55.92	999.00	6.73	999.00	5.56	0.00
20 11 9 9 186.40	20.84 2	.55 60.56	999.00 178.20	16.30	4.00	60.09	178.10	7.08	9.26	57.48	999.00	0.69	999.00	0.71	0.00
20 11 9 10 191.10	14.49 5	.66 59.95	999.00 185.50	12.73	5.65	60.77	186.00	7.62	13.04	60.89	999.00	-1.60	999.00	-0.40	0.00
20 11 9 11 197.90	11.66 6	.43 63.91	999.00 193.80	11.28	5.83	65.11	193.10	7.87	13.90	66.05	999.00	-2.28	999.00	-1.02	0.00
20 11 9 12 202.10	10.45 7	.87 67.63	999.00 197.70	9.58	9.26	68.63	199.00	6.76	15.71	70.22	999.00	-2.88	999.00	-1.88	0.00
20 11 9 13 193.30	10.75 9	.52 70.86	999.00 188.30	10.21	8.98		185.60	6.53	15.19	73.40	999.00	-2.40	999.00	-1.22	0.00
20 11 9 14 198.40	10.88 11	.08 73.03	999.00 194.10	10.08	11.46		197.40	7.31	16.25	75.60	999.00	-2.57	999.00	-1.75	0.00
20 11 9 15 191.10		.04 999.00	999.00 187.30	10.36	9.22	999.00		6.78	15.87	76.57		-2.17	999.00	-1.21	0.00
20 11 9 16 185.60		.23 74.90	999.00 182.50	13.93	6.00		180.20	8.31	14.22	76.70	999.00	-1.51	999.00	-0.53	0.00
20 11 9 17 174.30		.23 74.80	999.00 168.60	11.17	3.81		158.00	4.47	12.67	75.58	999.00	-0.08	999.00	0.56	0.00
20 11 9 18 172.00		.55 73.87	999.00 165.60	15.89	2.15		157.00	4.51	11.14	72.57	999.00	1.95	999.00	1.86	0.00
20 11 9 19 169.10			999.00 162.40	16.39	2.60		151.90	5.15	9.60		999.00		999.00	2.31	0.00
20 11 9 20 180.20			999.00 175.30	16.29	2.68		163.00	4.79	9.30		999.00	3.10		2.41	0.00
20 11 9 21 174.30			999.00 167.70	16.13	2.96		153.90	4.46	10.14		999.00		999.00	2.53	0.00
20 11 9 22 180.30			999.00 175.00	17.92	2.67		173.40	4.55	11.27		999.00		999.00	2.71	0.00
20 11 9 23 177.20			999.00 167.90	17.61	2.21		157.50	4.49	10.78		999.00		999.00	2.87	0.00
20 11 9 24 181.30			999.00 174.50	19.49	3.56		170.40	6.54	12.03		999.00		999.00	1.64	0.00
20 11 10 1 185.30			999.00 178.70	18.42	2.33		176.50	6.50	9.25		999.00		999.00	1.54	0.00
20 11 10 2 187.00			999.00 181.50 999.00 180.80	16.67	2.67		178.50	6.12	8.75		999.00		999.00 999.00	1.48	0.00
20 11 10 3 187.30				15.59	2.56		179.50 179.00	5.53	9.58		999.00			1.16	0.00
20 11 10 4 190.50	20.02 4	.41 63.97	999.00 185.40	16.05	4.30	03.//	1/9.00	7.21	9.81	0∠.8/	999.00	0.61	999.00	0.49	0.00

20 11 10 5 189.	.40 22.66	3.96	63.85	999.00	184 30	19.08	4.72	63 88	182.70	9.34	12.69	63 78	999.00	-0 07	999.00	-0.02	0.00
20 11 10 5 103.		3.39	63.43	999.00		16.70	3.93		185.40	6.84	11.69	63.47	999.00	0.17	999.00	0.15	0.00
20 11 10 0 193.		3.01	62.13	999.00		17.82	4.05		181.30	7.91	10.82	61.57	999.00	0.67	999.00	0.45	0.00
20 11 10 7 192.		2.91	61.79	999.00	183.10	19.81	3.52		180.20	8.39	11.92	60.88	999.00	0.91	999.00	0.80	0.00
20 11 10 9 189.		4.97	61.96	999.00		17.02	5.81		182.10	9.87	12.04	62.72	999.00	-1.28	999.00	-0.41	0.00
20 11 10 9 109.		5.06	64.39	999.00	187.20	20.95	5.15		185.40	12.17	13.34	66.04	999.00	-1.77	999.00	-0.75	0.00
20 11 10 10 192.		5.63	67.80	999.00	203.00	21.60	6.83		200.20	13.40	13.97	69.90	999.00	-2.23	999.00	-1.59	0.00
20 11 10 11 207.		6.76	71.00	999.00	197.30	22.68	8.11		195.80	14.29	14.03	73.32	999.00	-2.28	999.00	-1.53	0.00
20 11 10 12 202.		5.60	71.68	999.00	190.50	24.64	5.31		187.80	14.96	14.65	74.05	999.00	-2.27	999.00	-1.50	0.00
20 11 10 13 1993.		7.50	73.08	999.00	196.30	23.53	8.31		193.70	14.36	14.25	75.13	999.00	-1.93	999.00	-1.35	0.00
20 11 10 11 200.		7.16	74.71	999.00	191.20	25.32	8.09		188.70	15.03	14.94	76.77	999.00	-1.85	999.00	-1.20	0.00
20 11 10 16 194.		4.20	75.03	999.00	190.00	24.53	4.41		189.70	13.80	13.35	76.63	999.00	-1.48	999.00	-0.75	0.00
20 11 10 17 178.		4.68	74.94		174.70	17.29	5.71		172.10	9.07	11.60	75.88	999.00	-0.59	999.00	-0.06	0.00
20 11 10 18 167.		2.77	73.73	999.00	162.30	17.14	3.14		158.90	6.83	11.99	73.47	999.00	0.82	999.00	0.95	0.00
20 11 10 19 172.		2.68	72.21	999.00		18.48	3.11		159.80	7.06	12.90	71.18	999.00	1.31	999.00	1.27	0.00
20 11 10 20 171.		2.94	71.48	999.00	165.20	17.81	3.51		159.40	6.66	12.02	70.08	999.00	1.35	999.00	1.14	0.00
20 11 10 21 172.		2.88	70.69	999.00	166.20	18.90	3.62		161.00	7.43	11.66	69.94	999.00	0.42	999.00	-0.01	0.00
20 11 10 22 196.		2.68	66.08	999.00		16.21	3.91		200.30	6.66	11.29	65.98	999.00	0.70	999.00	0.05	0.00
20 11 10 23 183.		3.91	63.90	999.00		20.44	4.58		174.80	8.60	11.44	62.01	999.00	1.97	999.00	-0.07	0.02
20 11 10 24 185.		4.01	64.97	999.00		26.39	4.24		179.60	12.78	11.32	63.05	999.00	1.75	999.00	1.02	0.00
20 11 11 1 194.		5.02	64.94	999.00	190.40	29.23	5.77	64.50	189.40	15.39	13.62	63.96	999.00	0.32	999.00	0.03	0.00
20 11 11 2 195.		6.35	65.04	999.00	190.50	22.67	6.22		189.50	11.86	14.20	65.35	999.00	-0.51	999.00	-0.56	0.00
20 11 11 3 253.		4.60	62.35	999.00	248.00	21.35	5.75	62.14	240.50	13.31	9.53	62.40	999.00	0.83	999.00	0.67	0.01
20 11 11 4 241.		4.49	58.35	999.00	234.70	17.91	4.45		223.90	11.84	7.60	57.92	999.00	-0.04	999.00	0.14	0.01
20 11 11 5 242.		4.62	57.44	999.00	236.40	19.14	4.31		230.20	12.30	8.84	57.47	999.00	-1.09	999.00	-0.66	0.02
20 11 11 6 240.	.10 16.56	6.82	55.90	999.00	234.20	14.65	7.04	56.34	225.60	9.68	11.69	57.23	999.00	-1.29	999.00	-0.87	0.00
20 11 11 7 237.		4.55	54.82	999.00	231.80	15.51	4.96	55.29	223.40	10.44	8.69	56.28	999.00	-1.56	999.00	-1.08	0.00
20 11 11 8 253.	.20 17.27	5.69	53.47	999.00	247.50	15.54	6.19	54.00	245.90	10.07	10.84	55.07	999.00	-1.50	999.00	-0.95	0.00
20 11 11 9 265.	.80 17.45	6.07	51.01	999.00	259.20	16.21	6.67	51.57	251.10	10.73	10.78	52.69	999.00	-1.74	999.00	-1.15	0.00
20 11 11 10 271.	.30 16.48	6.09	48.69	999.00	265.60	16.05	6.32	49.36	258.90	12.55	11.85	50.90	999.00	-2.36	999.00	-1.70	0.00
20 11 11 11 278.	.50 12.87	8.95	48.01	999.00	274.10	12.72	9.29	48.75	270.70	10.42	12.12	50.84	999.00	-3.09	999.00	-2.30	0.00
20 11 11 12 276.	.00 13.37	8.66	48.65	999.00	272.90	12.86	9.75	49.46	269.50	10.83	16.36	51.68	999.00	-3.15	999.00	-2.35	0.00
20 11 11 13 268.	.30 15.21	7.84	48.78	999.00	264.00	14.87	8.24	49.49	256.40	11.28	14.18	51.86	999.00	-3.29	999.00	-2.56	0.00
20 11 11 14 265.	.00 12.17	10.55	48.61	999.00	258.50	11.71	10.25	49.22	254.20	9.71	14.56	51.55	999.00	-2.74	999.00	-2.14	0.00
20 11 11 15 278.	.40 12.81	11.01	48.75	999.00	271.50	12.23	11.32	49.41		9.58	14.16	51.66	999.00	-2.79	999.00	-2.16	0.00
20 11 11 16 290.	.10 16.78	6.74	48.20	999.00	284.70	15.93	6.70	48.94	279.00	12.02	11.97	51.02	999.00	-2.68	999.00	-1.89	0.00
20 11 11 17 287.		4.92	46.56	999.00	281.70	14.37	5.37		274.00	10.46	9.67	48.74	999.00	-1.84	999.00	-1.21	0.00
20 11 11 18 288.		3.18	44.32	999.00	281.10	13.39	3.93		264.30	6.96	8.86	45.17	999.00	-0.22	999.00	0.24	0.00
20 11 11 19 291.		3.29	42.41	999.00	283.40	15.14	4.16		271.40	9.26	7.99	42.98	999.00	-0.71	999.00	-0.29	0.00
20 11 11 20 291.		2.63	40.93	999.00	281.30	13.24	2.95	41.25	267.60	6.47	7.93	40.85	999.00	0.37	999.00	0.64	0.00
20 11 11 21 296.		5.16	40.11	999.00	284.70	11.48	5.25	40.38	260.70	5.92	8.95	39.62	999.00	0.35	999.00	0.73	0.00
20 11 11 22 289.		3.28	39.44	999.00	277.30	12.49	3.92	39.75	260.00	6.16	8.79	38.98	999.00	0.30	999.00	0.50	0.00
20 11 11 23 309.		8.12	39.03	999.00		10.11	7.95	39.29		6.41	8.06		999.00		999.00	0.88	0.00
20 11 11 24 322.		6.34		999.00		13.45	7.47		308.50	8.21	11.05		999.00			-0.48	0.00
20 11 12 1 328.				999.00		14.37	6.08		315.30	9.34	9.81		999.00		999.00	-0.55	0.00
20 11 12 2 339.		6.60		999.00		12.39	6.88		328.20		11.91		999.00		999.00	-0.75	0.00
20 11 12 3 343.		8.38		999.00		12.57		38.76			11.05		999.00		999.00	-0.93	0.00
20 11 12 4 346.		6.88		999.00		13.70	7.33		338.20		10.25		999.00		999.00	-1.10	0.00
20 11 12 5 7.		14.29		999.00	3.34	9.26	13.69	38.79	0.27		13.62		999.00		999.00	-1.38	0.00
20 11 12 6 27.		6.76		999.00	22.90	8.72	8.11	39.05			11.95		999.00		999.00	-1.28	0.00
20 11 12 7 30.		8.30		999.00	26.42	7.82	9.03		19.43		14.15		999.00		999.00	-1.27	0.00
20 11 12 8 49.	.26 10.34	8.06	38.91	999.00	42.84	9.75	9.16	39.42	47.90	7.30	12.07	40.42	999.00	-1.33	999.00	-0.75	0.00

00 11 10 0	60.46	10 01	0 05	20 00	000 00	E 4 11	10 60	0 00	40 77	F1 76	0 27	1 - 00	41 25	000 00	1 55	000 00	0 60	0 00
20 11 12 9 20 11 12 10	60.46	10.91	9.05 8.54	39.98		54.11 62.91	10.69 9.74	9.22	40.77 41.24	51.76 58.68	8.37 8.57	15.20 15.29	41.35	999.00	-2.13	999.00 999.00	-0.68	0.00
20 11 12 10	71.00 59.17	10.04 10.26	7.42	40.27 40.84	999.00	53.12	9.74	10.47 7.80	41.24	54.50	8.24	13.89	42.23	999.00 999.00		999.00	-0.94 -0.84	0.00
20 11 12 11	64.92	10.25	9.46	41.53	999.00	58.56	9.83	11.23	42.42	59.64	7.86	19.84	43.44	999.00	-2.18	999.00	-1.20	0.00
20 11 12 12	65.22	9.79	11.90	41.53	999.00	59.13	9.63	11.23	42.42	61.89	7.81	16.06	43.44	999.00	-2.16 -1.96	999.00	-1.20	0.00
20 11 12 13	75.20	10.77	7.92	42.00	999.00	70.10	10.62	8.69	42.33	75.00	8.10	17.21	44.61	999.00	-2.49	999.00	-1.73	0.00
20 11 12 14	64.64	8.64	13.22	42.56	999.00	56.85	8.46	13.25	43.33	55.25	7.05	20.73	44.74	999.00	-2.02	999.00	-1.16	0.00
20 11 12 15	52.41	7.71	12.15	42.65	999.00	46.50	7.66	11.82	43.44	43.54	6.46	17.73	44.78	999.00	-1.75	999.00	-0.95	0.00
20 11 12 10	58.35	7.63	5.91	43.07	999.00	51.29	7.36	7.32	43.79	53.86	5.72	11.59	44.70	999.00	-1.53	999.00	-0.88	0.00
20 11 12 17	39.29	5.57	12.89	42.74	999.00	36.47	5.66	11.86	43.25	33.68	4.34	16.66	44.29	999.00	-1.57	999.00	-1.09	0.00
20 11 12 10	66.00	10.66	5.74	42.62	999.00	59.89	10.61	5.26	43.07	60.14	6.61	11.66	43.91	999.00	-1.10	999.00	-0.65	0.00
20 11 12 19	88.40	11.66	2.85	43.17	999.00	81.80	11.40	3.32	43.62	88.30	5.56	10.66	44.05	999.00	-0.75	999.00	-0.29	0.00
20 11 12 21		10.60	5.81	43.52	999.00	92.50	10.21	6.18	43.95	93.00	4.78	13.07	44.37	999.00	-0.86	999.00	-0.43	0.00
20 11 12 22		11.60	4.92	44.05	999.00	99.30	11.12	5.77		103.70	5.63	11.90	44.92	999.00	-0.83	999.00	-0.38	0.00
20 11 12 23		14.19	4.59	44.52	999.00	109.90	13.43	5.23		111.20	7.07	14.22	45.38	999.00	-0.90	999.00	-0.43	0.00
20 11 12 24		13.09	3.28	44.52	999.00	137.60	11.33	4.64		171.00	3.15	30.50	45.38	999.00	1.86	999.00	1.68	0.00
20 11 13 1		7.29	2.83	41.79	999.00	211.00	7.37	5.16		234.80	3.70	6.41	40.67	999.00	0.97	999.00	0.18	0.00
20 11 13 2		9.34	2.33	41.81	999.00	197.20	7.57	2.79		215.00	4.09	10.80	39.70	999.00	1.96	999.00	1.41	0.00
20 11 13 3		9.98	6.65	41.81	999.00	217.60	8.52	7.31		230.10	3.42	13.34	39.70	999.00	3.07	999.00	2.62	0.00
20 11 13 4		13.34	6.32	41.47	999.00	224.90	11.73	4.73		211.50	4.16	8.19	37.85	999.00	4.24	999.00	3.06	0.00
20 11 13 5	227.10	15.28	2.22	41.89	999.00	234.40	13.40	3.89	40.10	228.80	5.23	7.32	38.07	999.00	4.30	999.00	1.99	0.00
20 11 13 6		17.65	2.11	41.29	999.00	254.60	13.98	4.91	39.32	253.50	5.73	10.95	38.24	999.00	3.56	999.00	0.93	0.00
20 11 13 7	244.70	14.81	6.03	40.03	999.00	233.00	11.74	7.44	38.67	210.70	7.18	14.08	38.30	999.00	0.32	999.00	-0.05	0.00
20 11 13 8	250.80	17.43	4.43	38.55	999.00	238.80	12.82	6.16	37.55	221.50	6.33	8.87	37.21	999.00	1.17	999.00	0.20	0.00
20 11 13 9	247.70	12.07	5.97	38.06	999.00	233.90	10.19	7.25	37.97	211.50	6.37	10.76	38.56	999.00	-0.88	999.00	-0.73	0.00
20 11 13 10	244.60	11.94	6.92	39.30	999.00	237.50	11.17	7.12	39.65	229.30	9.02	10.23	40.83	999.00	-2.14	999.00	-1.50	0.00
20 11 13 11	262.60	12.50	11.67	42.75	999.00	255.10	11.91	12.50	43.43	244.20	9.57	17.40	45.17	999.00	-2.56	999.00	-1.89	0.00
20 11 13 12	262.90	18.99	5.61	45.77	999.00	256.70	18.15	5.88	46.41	250.80	12.86	11.37	48.40	999.00	-2.40	999.00	-1.80	0.00
20 11 13 13	274.90	18.18	8.02	46.25	999.00	268.20	17.47	8.10	46.86	264.10	13.30	11.16	48.47	999.00	-2.04	999.00	-1.48	0.00
20 11 13 14	267.60	20.22	6.79	46.19	999.00	263.00	19.16	8.25	46.79	255.20	14.09	11.89	48.58	999.00	-2.67	999.00	-2.13	0.00
20 11 13 15	287.90	17.98	7.79	45.67	999.00	281.70	17.43	7.78	46.33	274.10	14.06	10.87	48.32	999.00	-2.61	999.00	-1.95	0.00
20 11 13 16		18.80	7.09	45.67	999.00	266.10	17.81	7.67		257.60	13.25	12.31	48.32	999.00	-2.44	999.00	-1.63	0.00
20 11 13 17		20.96	4.65	42.59	999.00	282.10	19.27	5.66		275.30	13.77	8.52	44.64	999.00	-1.69	999.00	-1.10	0.00
20 11 13 18		16.23	3.95	40.39	999.00	273.80	15.05	4.07		257.90	7.54	8.34	40.97	999.00	0.01	999.00	0.40	0.00
20 11 13 19		17.77	3.67	38.41	999.00	280.20	15.69	4.34		265.70	7.84	9.47	38.27	999.00	0.32	999.00	0.60	0.00
20 11 13 20		19.56	2.08	36.69	999.00	276.00	17.38	2.43		259.70	8.37	8.73	36.65	999.00	0.38	999.00	0.53	0.00
20 11 13 21		16.48	2.83	35.20	999.00	277.80	15.09	2.88		255.30	7.39	8.36	34.90	999.00	0.27	999.00	0.57	0.00
20 11 13 22		17.29	2.42	34.16	999.00	269.70	15.69	2.99		249.70	7.88	8.38	33.66	999.00	0.62	999.00	0.48	0.00
20 11 13 23		15.28	2.09	33.31	999.00	256.10	13.83	3.88		238.10	7.33	8.20	32.97	999.00	0.24	999.00	-0.02	0.00
20 11 13 24		13.12	2.11	33.32	999.00	283.10	13.16	2.39		254.00	6.86	6.69	31.57	999.00	2.37	999.00	2.39	0.00
20 11 14 1 20 11 14 2		13.06 12.83	7.72 2.64	33.51 33.51	999.00	278.90 263.40	13.12 12.06	6.51 7.52		244.80 232.60	7.24 7.51	7.87 8.44	30.75 30.75	999.00 999.00	2.28 1.63	999.00 999.00	2.51 1.40	0.00
20 11 14 2		12.55	1.37		999.00		12.10	1.42		252.00	6.44	6.57		999.00		999.00	2.81	0.00
20 11 14 3		8.75	13.01		999.00		4.51		31.59		2.46	42.01				999.00	0.35	0.00
20 11 14 4 20 11 14 5		7.41	2.38		999.00		7.65	23.97		172.40	3.13	14.71		999.00		999.00	4.88	0.00
20 11 14 5		4.59	2.48		999.00		5.42	2.63		223.60	4.22	5.63		999.00		999.00	3.39	0.00
20 11 14 7		4.26	4.53		999.00		5.30	3.83		219.40	3.92	6.01		999.00		999.00	3.41	0.00
20 11 14 7		6.76	2.13		999.00		6.45	1.98		185.50	3.73	11.77		999.00		999.00	6.00	0.00
20 11 14 0		8.35	1.37		999.00		7.22	3.45		190.00	3.53	15.70		999.00		999.00	3.36	0.00
20 11 14 10		8.22	5.19		999.00		6.55	8.00		179.00	5.09	12.74		999.00		999.00	0.29	0.00
20 11 14 11		9.60	8.75		999.00		9.17	8.77		174.50	7.66	13.85		999.00		999.00	-1.21	0.00
20 11 14 12		9.88	10.27		999.00		9.85	11.05		159.40	7.02	24.04		999.00		999.00	-1.45	0.00
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20 11 14 12 176 00	10 50	0 20	27 00	000 00	172 10	10 16	0 24	20 01	170 40	C 00	10 42	20 50	000 00	0 40	000 00	1 42	0 00
20 11 14 13 176.00	10.52	8.38		999.00		10.16	9.34		179.40	6.80	18.43		999.00		999.00	-1.43	0.00
20 11 14 14 155.10	7.25	9.26	38.58	999.00		7.33	9.93		144.90	5.57	16.64	40.84	999.00	-2.16	999.00	-1.38	0.00
20 11 14 15 141.70	7.05	9.03	39.61	999.00		7.01	10.42		134.90	5.02	16.77	41.56	999.00	-1.88	999.00	-1.27	0.00
20 11 14 16 133.40	10.34	4.79	999.00	999.00		9.46	6.19	999.00		5.36	12.07	42.05	999.00	-1.66		-1.14	0.00
20 11 14 17 137.50	11.22	4.81	41.23	999.00		10.16	6.41		131.50	5.78	15.27	42.76	999.00	-1.54		-1.06	0.00
20 11 14 18 124.90	16.77	2.52	42.37	999.00		15.43	3.38		116.40	7.79	13.52	43.65	999.00	-1.16	999.00	-0.77	0.00
20 11 14 19 133.30	18.49	5.03	43.28	999.00		17.19	5.70		125.40	9.48	13.38	44.55	999.00	-1.29	999.00	-0.85	0.00
20 11 14 20 137.50	19.98	5.24	43.66	999.00		18.18	7.22		129.40	9.88	14.87	45.03	999.00	-1.33	999.00	-0.90	0.00
20 11 14 21 145.30	19.91	5.48	44.00	999.00		17.78	6.03		139.80	10.41	12.63	45.33	999.00		999.00	-0.95	0.00
20 11 14 22 147.70	21.88	6.32	44.67	999.00		19.29	7.47		143.70	10.89	16.07	45.94	999.00	-1.25	999.00	-0.88	0.00
20 11 14 23 155.90	17.92	3.41	44.46	999.00		15.41	4.98	44.08	146.80	6.32	14.07	44.93	999.00	1.05	999.00	-0.78	0.02
20 11 14 24 148.90	22.75	4.30	42.94	999.00	140.40	18.88	5.57		138.20	9.00	13.44	41.23	999.00	1.21	999.00	-0.43	0.04
20 11 15 1 146.10	24.07	4.61	42.35	999.00		20.81	6.05	41.58	138.00	10.03	14.22	42.05	999.00	0.08	999.00	-0.53	0.03
20 11 15 2 145.60	19.70	4.99	41.50	999.00	138.00	16.44	6.63	41.09	137.20	8.30	14.54	42.06	999.00	-0.83	999.00	-1.17	0.07
20 11 15 3 146.00	23.95	4.75	42.63	999.00	137.10	20.09	6.23	41.83	133.80	9.67	12.63	42.72	999.00	0.57	999.00	-0.64	0.00
20 11 15 4 151.80	25.59	4.33	46.09	999.00	143.00	21.64	5.10	45.25	138.00	10.14	12.50	45.11	999.00	1.10	999.00	0.46	0.01
20 11 15 5 167.30	30.10	3.94	50.75	999.00	161.10	26.49	5.15	49.94	161.90	13.20	12.46	49.33	999.00	1.14	999.00	1.03	0.00
20 11 15 6 220.10	25.50	10.24	54.66	999.00	217.50	23.08	12.18	54.73	221.60	13.10	17.25	53.56	999.00	1.28	999.00	1.44	0.00
20 11 15 7 190.00	33.07	4.40	48.85	999.00	184.20	29.87	5.27	48.87	183.50	17.42	11.46	49.34	999.00	-0.59	999.00	-0.29	0.11
20 11 15 8 186.40	33.75	4.66	48.18	999.00	181.30	30.70	5.40	47.99	180.50	17.58	10.24	48.85	999.00	-0.78	999.00	-0.78	0.04
20 11 15 9 191.00	30.92	4.34	48.60	999.00	184.90	27.82	5.12	48.56	183.10	15.71	11.99	49.33	999.00	-0.68	999.00	-0.74	0.00
20 11 15 10 165.10	29.92	5.06	50.13	999.00	158.00	27.51	5.64	50.13	158.60	14.11	13.23	50.93	999.00	-0.91	999.00	-0.88	0.03
20 11 15 11 186.80	30.93	5.78	51.89	999.00	181.50	28.42	6.51	51.81	181.60	16.82	11.97	52.92	999.00	-1.11	999.00	-1.08	0.00
20 11 15 12 223.20	42.26	5.29	51.97	999.00	217.20	38.19	6.01	51.89	310.50	26.65	90.60	53.12	999.00	-1.60	999.00	-1.22	0.10
20 11 15 13 234.10	52.80	4.77	47.27	999.00		50.83	5.78		226.30	39.21	8.54	48.04	999.00	-1.04	999.00	-1.14	0.02
20 11 15 14 240.70	44.92	6.14	43.88	999.00	235.60	43.05	5.58	44.46	231.80	31.14	9.29	45.74	999.00	-1.82	999.00	-1.27	0.00
20 11 15 15 245.40	43.72	6.01	43.17	999.00	240.20	40.68	6.83		236.10	27.98	11.33	44.98	999.00	-1.82	999.00	-1.24	0.00
20 11 15 16 241.30	42.52	5.56	42.68	999.00	236.20	40.64	5.58		233.40	28.76	10.10	44.50	999.00	-1.80	999.00	-1.23	0.00
20 11 15 17 241.70	44.81	5.24	42.80	999.00	237.10	42.71	5.24		233.90	29.84	9.75	44.42	999.00		999.00	-1.00	0.00
20 11 15 18 255.20	43.36	5.66	40.96	999.00	249.60	40.23	6.29		246.30	27.45	10.67	42.45	999.00	-1.42	999.00	-0.88	0.00
20 11 15 19 244.60	40.85	5.78	40.46	999.00	239.70	38.97	6.36		235.40	27.06	10.93	41.90	999.00	-1.48	999.00	-0.92	0.00
20 11 15 20 239.90	38.46	4.95		999.00	234.90	36.41	5.26		232.10	26.27	8.60	41.31	999.00	-1.50	999.00	-0.94	0.00
20 11 15 21 239.80	36.30	5.76	39.41		234.40	34.32	5.70		231.20	23.44	8.69	40.92	999.00	-1.48	999.00	-0.94	0.00
20 11 15 22 246.00	31.80	5.45	39.84	999.00	240.60	29.57	6.20		236.50	19.89	10.11	41.29	999.00	-1.45	999.00	-0.90	0.00
20 11 15 23 240.10	32.25	5.82	39.42	999.00	234.60	30.44	6.22		231.50	21.36	9.50	40.88	999.00	-1.47	999.00	-0.93	0.00
20 11 15 24 242.90	33.07	5.39	39.36	999.00	237.80	30.76	5.98		232.50	22.00	9.28	40.80	999.00	-1.43	999.00	-0.91	0.00
20 11 16 1 247.50	27.11	5.47	39.17	999.00	242.20	24.45	6.07		237.40	16.15	10.82	40.58	999.00	-1.32	999.00	-0.80	0.00
20 11 16 2 246.70	27.22	5.24	39.17	999.00	240.80	25.11	5.79		236.50	16.93	9.57	40.58	999.00	-1.19	999.00	-0.68	0.00
20 11 16 3 250.70	25.38	5.57	36.61	999.00		22.52	6.08		241.40	14.81	9.53	37.81	999.00	-1.29	999.00	-0.84	0.00
20 11 16 4 248.70	24.14	4.83	36.45	999.00	242.60	22.80	5.67		239.70	15.36	9.18	37.93	999.00	-1.52	999.00	-0.98	0.00
20 11 16 5 247.80	24.29	5.19	36.22	999.00	242.60	22.55	6.01	36.76	238.30	15.08	10.61	37.77		-1.60	999.00	-1.04	0.00
20 11 16 6 243.70	21.55	4.99	35.74	999.00	238.50	20.22	5.14	36.30	233.90	14.71	8.55	37.77	999.00	-1.66	999.00	-1.09	0.00
20 11 16 7 239.50	23.29	4.89		999.00		21.97	5.63		229.30	16.10	9.22		999.00		999.00	-1.09	0.00
20 11 16 7 239.30	24.52			999.00		22.91	5.37			16.17			999.00		999.00	-1.15	0.00
20 11 16 8 237.90																	
20 11 16 9 241.20 20 11 16 10 253.40	22.47	5.56		999.00		21.35	6.19		231.40	16.14	9.65		999.00		999.00	-1.36 -1.31	0.00
20 11 16 10 253.40 20 11 16 11 256.10	24.15	7.72		999.00		22.13	7.96		245.20	15.77	11.86		999.00		999.00	-1.31	
	23.78	6.41		999.00		22.22	6.71		244.50	15.34	10.57		999.00		999.00	-1.53	0.00
20 11 16 12 237.20	22.02	6.09		999.00		21.02	6.55		229.20	15.55	11.33		999.00		999.00	-2.20	0.00
20 11 16 13 241.40	22.17	5.97		999.00		21.15	6.42		232.30	15.82	9.96		999.00		999.00	-2.23	0.00
20 11 16 14 240.40	24.39	4.64		999.00		23.69	4.74		231.80	17.42	9.80		999.00		999.00	-2.23	0.00
20 11 16 15 242.00	26.17	4.59		999.00		25.36	5.18		231.90	18.65	9.92		999.00		999.00	-1.60	0.00
20 11 16 16 240.60	29.10	4.34	42.05	999.00	∠35.90	27.97	4.85	42.63	231.10	20.68	8.76	44.03	999.00	-1.75	999.00	-1.14	0.00

20 11 16 17 241.90	23.67	4.45	42.41	999.00	236.70	22.04	4.41	42.98	234.60	14.26	9.78	43.85	999.00	-1.21	999.00	-0.67	0.00
20 11 16 18 240.20	19.85	3.20	41.51	999.00	234.10	17.52	3.60	41.87	224.60	10.14	7.79	42.10	999.00	-0.08	999.00	0.15	0.00
20 11 16 19 245.50	17.61	4.22	40.82	999.00	239.00	15.06	4.61	41.00	229.60	8.28	8.89	41.33	999.00	-0.37	999.00	-0.29	0.00
20 11 16 20 244.60	15.77	2.55	41.02	999.00	236.70	12.78	3.79	41.03	222.50	6.74	7.17	41.19	999.00	0.02	999.00	-0.04	0.00
20 11 16 21 247.40	5.97	7.19	41.13	999.00	231.30	4.61	7.61	41.05	265.90	1.31	60.33	40.91	999.00	0.17	999.00	0.20	0.00
20 11 16 22 154.50	2.88	12.67	40.73	999.00	134.50	3.86	8.80	40.92	140.70	3.77	7.46	40.83	999.00	-0.55	999.00	-0.26	0.00
20 11 16 23 33.96	8.05	9.65	40.44	999.00	26.56	6.82	8.04	40.77	21.08	6.30	9.96	40.79	999.00	-1.57		-1.09	0.00
20 11 16 24 17.80	3.87	17.27	40.22	999.00	7.21	2.86	19.75	40.62	310.80	2.28	22.43	41.36	999.00		999.00	-0.51	0.00
20 11 17 1 8.34	12.86	10.75	39.87	999.00	3.77	11.66	10.53	40.35	356.90	11.00	9.84	41.36	999.00		999.00	-1.15	0.00
20 11 17 2 4.30	14.70	9.49	39.07	999.00	358.50	13.41	9.22	39.60	356.20	11.48	10.11	40.76	999.00		999.00	-1.21	0.00
20 11 17 3 337.00	20.26	4.76	38.18	999.00	333.10	19.85	5.27	38.75	334.00	14.64	8.70	39.90	999.00		999.00	-1.17	0.00
20 11 17 4 327.80	21.14	5.43	36.36	999.00	323.10	20.56	6.37	36.90	320.70	13.33	11.43	37.98	999.00	-1.54		-1.04	0.00
20 11 17 5 296.60	16.78	7.78	35.35	999.00	287.60	15.42	7.89	35.74	273.20	10.39	9.15	36.06	999.00	-0.47	999.00	-0.07	0.00
20 11 17 6 305.50	25.36	5.89	35.41	999.00	299.60	24.51	5.99	35.89	296.50	16.20	12.16	35.79	999.00		999.00	0.17	0.00
20 11 17 7 310.30	25.44	5.59	35.76	999.00	304.50	25.09	6.39	36.32	302.30	17.09	11.27	36.51	999.00		999.00	-0.34	0.00
20 11 17 8 312.50 20 11 17 9 308.40	25.91 30.82	4.81 6.12	35.63 35.23	999.00	306.50 302.00	25.51	5.68 6.32	36.17 35.81	303.90 299.00	17.42 19.38	9.41 11.59	36.59 35.94	999.00 999.00		999.00 999.00	-0.43 0.42	0.00
20 11 17 9 306.40	25.64	6.67	33.86	999.00		29.95 24.89	7.41		311.40	18.12	11.59	35.57	999.00		999.00	-1.68	0.00
20 11 17 10 317.30	27.23	6.70	33.24	999.00	310.00	27.15	7.58	33.88	306.40	18.86	12.36	35.40	999.00	-2.26	999.00	-1.60	0.00
20 11 17 11 313.30	27.23	5.45	33.03	999.00	299.40	27.13	5.85	33.70	295.40	18.15	12.97	35.45	999.00		999.00	-1.64	0.00
20 11 17 12 300.60	22.83	6.59	33.09	999.00	293.40	22.03	6.72	33.73	285.50	16.58	12.04	35.96	999.00		999.00	-2.67	0.00
20 11 17 14 309.70	22.00	5.97	34.12	999.00	303.80	22.05	6.84	34.75	303.50	15.87	10.88	37.30	999.00		999.00	-2.40	0.00
20 11 17 15 302.00	23.03	9.74	34.92	999.00	295.40	22.24	10.07	35.58	292.20	16.12	15.55	37.73	999.00		999.00	-1.80	0.00
20 11 17 16 314.50	21.01	7.29	34.92	999.00	309.50	20.76	7.80	35.58	307.10	14.77	10.67	37.73	999.00		999.00	-1.35	0.00
20 11 17 17 308.60	18.43	5.70	35.81	999.00	302.80	17.73	6.45	36.36	300.70	11.23	10.94	37.37	999.00	-1.34	999.00	-0.83	0.00
20 11 17 18 316.20	17.69	5.37	36.13	999.00	310.10	17.46	5.88	36.64	308.60	11.56	9.64	37.38	999.00	-1.38	999.00	-0.85	0.00
20 11 17 19 318.20	20.44	6.24	35.92	999.00	313.20	20.03	6.53	36.45	311.90	13.78	10.55	37.34	999.00	-1.48	999.00	-0.92	0.00
20 11 17 20 312.20	23.40	6.93	35.37	999.00	305.80	22.80	7.71	35.89	302.40	15.36	11.23	36.69	999.00	-1.40	999.00	-0.87	0.00
20 11 17 21 314.10	21.06	7.59	34.62	999.00	308.50	20.78	7.28	35.17	305.50	14.22	11.56	36.07	999.00	-1.52	999.00	-0.96	0.00
20 11 17 22 321.00	23.34	5.97	33.85	999.00	315.80	22.84	6.55	34.40	314.40	14.98	11.00	35.40	999.00	-1.60	999.00	-1.04	0.00
20 11 17 23 319.70	17.41	8.55	33.08	999.00	310.70	17.16	8.05	33.63	303.70	12.32	11.13	34.63	999.00	-1.52	999.00	-0.99	0.00
20 11 17 24 325.80	17.01	6.05	32.23	999.00	321.10	16.65	6.60	32.77	318.20	11.81	12.62	33.74	999.00	-1.51	999.00	-0.99	0.00
20 11 18 1 330.20	17.62	6.04	31.86	999.00	324.70	16.51	7.19		322.50	11.53	12.14	33.50	999.00	-1.62	999.00	-1.08	0.00
20 11 18 2 337.30	16.76	5.69	31.31	999.00	332.70	16.13	6.44	31.84	331.90	11.43	9.07	32.93	999.00		999.00	-0.95	0.00
20 11 18 3 343.10	12.50	6.82	31.13	999.00	338.40	11.93	7.56	31.60	332.20	7.41	9.21	32.23	999.00		999.00	-0.65	0.00
20 11 18 4 335.70	10.19	9.72	31.73	999.00	331.60	10.22	9.47		319.30	6.52	14.37	32.88	999.00	-0.75	999.00	-0.31	0.00
20 11 18 5 272.30	11.98	2.80	31.06	999.00	258.50	12.40	3.62	30.92	236.60	6.33	7.60	29.30	999.00	2.32	999.00	1.30	0.00
20 11 18 6 266.00	14.62	2.66	29.54	999.00	253.40	11.95	2.84	28.28	233.40	6.34	8.21	27.19	999.00	1.85	999.00	0.31	0.00
20 11 18 7 257.80 20 11 18 8 240.50	11.72	2.21	28.83	999.00	248.90	8.64	4.56		169.50	3.19	18.06	26.55	999.00	3.34	999.00	1.68	0.00
20 11 18 8 240.50 20 11 18 9 228.10	11.18 13.44	1.30 1.73	29.80 29.80	999.00	243.90 228.50	12.31	1.74 2.67	29.23	209.30 210.70	4.81 5.70	8.70 10.01	25.72 25.72	999.00 999.00	3.66	999.00	3.15 0.48	0.00
20 11 18 9 220.10	10.10	7.55	29.60	999.00	207.50	11.61 9.37	7.33	29.23 29.77		7.48	13.27	30.82	999.00	-2.12	999.00 999.00	-1.44	0.00
20 11 18 10 211.40	11.18	6.05	32.10		190.70	11.06	6.39		192.40	7.40	14.75	34.75	999.00		999.00	-1.44	0.00
	12.64	8.17		999.00		12.21		35.54			18.15				999.00	-1.69	0.00
20 11 18 12 199.70		11.91		999.00		11.75	14.25		209.60		18.41		999.00		999.00	-2.29	0.00
20 11 18 14 201.00	11.23	11.46		999.00		10.31	13.23		204.50	8.02	14.67		999.00		999.00	-2.06	0.00
20 11 18 15 194.70	15.27	6.26		999.00		14.86	6.52		185.50	10.07	13.17		999.00		999.00	-1.58	0.00
20 11 18 16 195.50	16.25	8.23		999.00		15.17	9.45		191.80	9.44	14.63		999.00		999.00	-1.31	0.00
20 11 18 17 179.50	15.64	3.59		999.00		14.39	4.33		172.20	7.91	13.35		999.00		999.00	-0.63	0.00
20 11 18 18 175.50	17.72	1.62		999.00		15.32	2.22		161.60	5.89	9.07		999.00		999.00	0.86	0.00
20 11 18 19 174.70	21.74	2.76		999.00		18.64	3.27		159.70		11.88		999.00		999.00	0.52	0.00
20 11 18 20 178.90	22.26	3.31			172.10	19.18	4.13	38.80	169.70		12.72		999.00	0.06	999.00	0.04	0.00

20 11 18 21 181.2	0 23.24	3.41	38.38	999.00	175 10	20.41	4.00	38 43	174.90	10.00	10.28	38 56	999.00	-0 33	999.00	-0.24	0.00
20 11 18 22 178.5		4.03	38.28	999.00		20.89	5.09		171.10	9.66	13.24	38.77		-0.50	999.00	-0.37	0.00
20 11 18 23 182.9		4.38	38.99	999.00		24.73	5.16		178.50	13.83	11.71	39.62	999.00	-0.63	999.00	-0.42	0.00
20 11 18 24 182.7		4.31	39.30	999.00		25.23	4.97		177.40	13.54	12.46	40.07	999.00	-0.81	999.00	-0.56	0.00
20 11 19 1 184.6		5.07	39.68	999.00		23.36	5.93		177.20	13.05	10.76	40.38	999.00	-0.59	999.00	-0.39	0.00
20 11 19 2 185.5		4.87	40.36			22.52	5.33		178.20	12.75	11.90	41.02	999.00	-0.72	999.00	-0.47	0.00
20 11 19 3 190.3		4.91	41.87	999.00		25.05	5.57	42.07	186.30	13.51	12.99	42.42	999.00	-0.65	999.00	-0.42	0.00
20 11 19 4 199.1	0 30.35	4.79	42.53	999.00	195.20	26.85	5.67	42.81	195.00	14.31	13.16	43.18	999.00	-0.81	999.00	-0.45	0.00
20 11 19 5 200.2	0 27.16	4.30	41.49	999.00	196.50	24.08	5.28	41.81	194.90	11.88	13.60	42.18	999.00	-0.64	999.00	-0.34	0.00
20 11 19 6 200.7	0 26.14	4.04	40.84	999.00	196.00	23.00	4.64	41.15	197.30	10.68	14.14	41.49	999.00	-0.54	999.00	-0.25	0.00
20 11 19 7 200.5	0 26.64	4.03	40.84	999.00	194.90	22.95	4.07	41.15	190.80	10.14	13.97	41.49	999.00	-0.01	999.00	0.05	0.00
20 11 19 8 203.4	0 28.94	4.55	42.29	999.00	197.50	25.07	5.37	42.44	194.00	12.89	14.82	42.42	999.00	-0.31	999.00	-0.14	0.00
20 11 19 9 205.9	0 25.48	4.32	43.76	999.00	199.20	21.72	5.03	43.94	197.90	11.70	12.40	44.36	999.00	-0.82	999.00	-0.67	0.00
20 11 19 10 207.6	0 26.29	4.39	43.76	999.00	201.00	23.13	4.42	43.94	199.00	11.87	12.00	44.36	999.00	-0.46	999.00	-0.31	0.00
20 11 19 11 218.9		5.59	53.74	999.00	214.00	29.00	6.58		213.60	19.07	9.59	54.71	999.00	-1.16	999.00	-0.76	0.00
20 11 19 12 224.5		5.39	58.76	999.00	219.70	34.80	6.08		218.50	24.51	8.90	59.89	999.00	-1.43	999.00	-0.94	0.00
20 11 19 13 222.1		5.26	59.26	999.00	217.60	31.13	5.84		217.50	23.73	9.92	60.98	999.00	-1.73	999.00	-1.29	0.00
20 11 19 14 210.9		5.68	61.01	999.00	204.70	27.26	6.52		204.70	16.69	12.93	62.79	999.00	-1.94	999.00	-1.50	0.00
20 11 19 15 224.5		7.16	62.92	999.00	219.10	38.45	8.05		216.00	26.09	11.19	64.51	999.00	-1.18	999.00	-0.71	0.00
20 11 19 16 212.2		6.13	64.32	999.00	206.10	27.05	6.82	64.77	204.80	15.99	12.29	65.28	999.00	-1.00	999.00	-0.52	0.00
20 11 19 17 207.8		4.95	63.51	999.00	202.60	25.50	5.47	63.95	201.80	14.78	11.62	64.25	999.00	-0.58	999.00	-0.17	0.00
20 11 19 18 207.8		5.05	61.17	999.00	202.50	24.99	5.19		202.40	13.96	12.08	61.55	999.00	-0.28	999.00	0.07	0.00
20 11 19 19 206.4		4.86		999.00	201.40	25.22	5.33		199.80	13.09	12.64	59.84	999.00	-0.37	999.00	-0.05	0.00
20 11 19 20 211.4		4.59	59.21	999.00	206.50	28.01	5.11		206.40	15.92	10.26	59.43	999.00	-0.24	999.00	0.08	0.00
20 11 19 21 212.1		4.21	59.39	999.00	207.00	26.04	5.24	59.70	205.40 206.30	14.07	11.84	59.63	999.00	-0.22	999.00	0.09	0.00
20 11 19 22 213.8		4.27	59.12	999.00	208.60	23.51	4.82			12.55	11.21	59.33	999.00	-0.02	999.00	0.26	0.00
20 11 19 23 213.4 20 11 19 24 215.6		4.33 4.16	58.64 58.46	999.00	207.00 210.10	24.38 27.85	4.16 4.65	58.91	203.30 208.60	12.83 15.89	11.17 10.25	58.63 58.72	999.00 999.00	0.10 -0.39	999.00	0.35	0.00
20 11 19 24 213.0		4.10	58.24	999.00	212.90	25.37	5.54		211.30	14.98	10.23	58.49	999.00	-0.05	999.00	-0.08 0.17	0.00
20 11 20 1 210.9		4.53	58.24	999.00	216.00	26.85	5.12		213.30	16.36	9.93	58.49	999.00	-0.14	999.00	0.18	0.00
20 11 20 2 221.0		4.42	56.84	999.00	214.40	26.71	4.87		213.20	15.50	10.23	56.99	999.00	-0.27	999.00	0.01	0.00
20 11 20 3 213.6		4.76	56.07	999.00	212.30	23.02	4.59		207.90	13.08	10.04	56.27	999.00	-0.09	999.00	0.17	0.00
20 11 20 5 220.4		4.47	55.39	999.00	214.50	24.77	4.89		209.90	14.95	10.39	55.58	999.00	-0.08	999.00	0.17	0.00
20 11 20 6 221.1		5.06	55.08	999.00	214.90	27.01	5.81		212.90	16.44	10.55	55.51	999.00	-0.73	999.00	-0.35	0.00
20 11 20 7 221.7		5.10	55.15	999.00	216.10	28.79	5.11	55.53		17.78	10.02	55.83	999.00	-0.65	999.00	-0.27	0.00
20 11 20 8 221.4		4.82	54.78	999.00	216.10	27.72	5.75		212.20	17.95	11.03	55.33	999.00	-0.55	999.00	-0.19	0.00
20 11 20 9 218.2	0 27.08	5.26	53.77	999.00	211.80	23.79	5.64	54.17	208.00	14.73	11.50	54.62	999.00	-1.02	999.00	-0.62	0.00
20 11 20 10 222.6	0 29.77	5.41	54.37	999.00	217.00	27.36	5.93	54.85	215.50	18.97	10.05	55.76	999.00	-1.61	999.00	-1.09	0.00
20 11 20 11 230.0	0 30.43	5.47	56.28	999.00	225.30	29.01	6.03	56.81	221.70	20.80	8.46	57.99	999.00	-1.74	999.00	-1.19	0.00
20 11 20 12 235.3	0 30.65	5.35	57.70	999.00	231.10	29.55	5.79	58.22	229.00	21.38	10.07	59.36	999.00	-1.67	999.00	-1.15	0.00
20 11 20 13 235.3	0 29.11	6.09	59.13	999.00	231.00	27.80	6.39	59.62	227.30	19.71	9.88	60.86	999.00	-1.70	999.00	-1.25	0.00
20 11 20 14 236.9	0 25.65	6.49	60.61	999.00	231.90	24.84	5.86	61.01	227.20	17.22	8.97	62.19	999.00	-1.43	999.00	-1.04	0.00
20 11 20 15 235.8	0 26.46	4.59	61.61	999.00	232.00	25.52	4.49	62.13	228.10	17.85	9.41	62.92	999.00	-1.14	999.00	-0.60	0.00
20 11 20 16 235.8	0 24.81	3.91	61.88	999.00	230.90	23.46	4.08	62.39	227.10	15.34	8.41	62.68	999.00	-0.17	999.00	0.34	0.00
20 11 20 17 239.2	0 20.98	3.97	61.44	999.00	234.20	19.39	3.66		227.50	11.75	7.49	61.07	999.00	0.70	999.00	1.13	0.00
20 11 20 18 242.5		3.05		999.00		17.95	3.10		227.30	9.17	5.14		999.00		999.00	2.35	0.00
20 11 20 19 249.9		3.17		999.00		15.93	3.07		225.20	8.40	4.00		999.00		999.00	2.55	0.00
20 11 20 20 278.5		3.02		999.00		13.64	3.99		241.40	5.85	7.34		999.00		999.00	1.86	0.00
20 11 20 21 304.7		1.05		999.00		17.98	1.82		300.10	7.49	9.89		999.00		999.00	0.99	0.00
20 11 20 22 309.1		1.47		999.00		19.07	1.68		296.90	7.65	11.37		999.00		999.00	2.53	0.00
20 11 20 23 317.2		2.79		999.00		19.46	4.57		304.10	11.08	8.87		999.00		999.00	0.17	0.00
20 11 20 24 308.1	0 22.67	1.91	50.25	999.00	301.10	20.76	3.58	50.16	296.80	10.32	11.76	49.96	999.00	0.08	999.00	-0.01	0.00

20 11 21 1	210 70	22.22	2 57	17 12	999.00	311.10	20.57	4.93	17 71	305.80	12.22	9.14	10 25	999.00	-0.86	000 00	-0.51	0.00
20 11 21 1		18.83	3.57 4.08	47.42	999.00	314.60	16.64	5.09	47.74	303.80	9.61	10.05	46.43	999.00		999.00	-0.51	0.00
20 11 21 2	27.43	8.13	16.37	44.31		21.30	7.74	16.48	44.72	16.20	8.08	16.74	45.51		-1.59		-1.04	0.00
20 11 21 3	34.12	8.64	9.59	44.31	999.00	29.22	7.86	8.91	44.72	21.63	8.47	10.74	45.51			999.00	-1.09	0.00
20 11 21 4	44.44	9.08	6.71	42.71	999.00	39.98	8.46	7.26	43.24	35.90	5.66	15.04	44.28	999.00		999.00	-1.08	0.00
20 11 21 6	56.17	10.50	4.93	42.71	999.00	49.09	9.92	5.11	42.88	50.76	6.07	11.41	43.94	999.00	-1.62	999.00	-1.06	0.00
20 11 21 7	57.55	9.00	5.70	42.35	999.00	50.80	8.65	5.96	42.88	49.71	5.55	12.88	43.94	999.00		999.00	-1.03	0.00
20 11 21 7	46.46	13.21	5.10	41.80	999.00	40.55	12.79	6.10	42.33	38.29	9.46	8.89	43.42	999.00		999.00	-1.14	0.00
20 11 21 9	45.16	11.55	5.99	41.66	999.00	40.26	11.56	5.93	42.21	38.66	8.64	11.21	43.39	999.00		999.00	-1.22	0.00
20 11 21 10	40.65	9.55	9.77	41.21	999.00	36.06	9.14	9.04	41.79	34.17	7.44	11.41	42.98	999.00		999.00	-1.19	0.00
20 11 21 10	39.02	8.96	12.27	40.85	999.00	31.30	7.79	10.02	41.46	27.85	8.54	11.22	42.70	999.00		999.00	-1.19	0.00
20 11 21 12	44.28	9.00	11.00	40.47	999.00	38.56	8.40	10.02	41.11	31.02	7.53	14.33	42.32	999.00		999.00	-1.13	0.00
20 11 21 13	41.91	9.01	11.51	40.49	999.00	36.44	8.14	10.21	41.12	24.72	8.10	12.43	42.38	999.00		999.00	-1.20	0.00
20 11 21 14	44.00	9.60	9.86	40.63	999.00	38.35	9.01	8.78	41.26	33.88	7.32	11.98	42.55	999.00		999.00	-1.33	0.00
20 11 21 15	41.99	8.99	10.48	40.57	999.00	38.79	9.43	9.31	41.18	39.32	7.68	14.03	42.47	999.00		999.00	-1.27	0.00
20 11 21 16	43.58	9.96	9.13	40.38	999.00	37.71	9.26	7.96	40.99	36.61	7.49	12.27	42.22	999.00		999.00	-1.18	0.00
20 11 21 17	51.64	10.64	3.78	40.35	999.00	45.66	10.44	3.88	40.90	40.55	6.61	11.09	42.04	999.00		999.00	-1.03	0.00
20 11 21 18	44.77	5.85	5.35	40.64	999.00	42.05	6.47	4.49	41.11	46.27	3.99	7.63	41.94	999.00		999.00	-0.72	0.00
20 11 21 19	53.04	9.53	4.88		999.00	47.49	9.44	4.69	41.20	49.21	6.07	10.45	41.99	999.00		999.00	-0.83	0.00
20 11 21 20	66.78	10.95	2.77	40.71	999.00	59.76	10.76	2.93	41.20	58.93	7.05	8.77	41.99	999.00		999.00	-0.69	0.00
20 11 21 21	70.10	12.11	3.62	40.38	999.00	63.55	11.91	3.94	40.85	62.85	7.81	8.35	41.43	999.00		999.00	-0.60	0.00
20 11 21 22	68.55	13.24	3.15	40.41	999.00	61.35	12.89	3.94	40.89	59.07	7.68	9.26	41.54			999.00	-0.63	0.00
20 11 21 23	60.88	14.48	3.14	40.55	999.00	53.45	14.00	3.77	41.03	53.06	8.94	10.97	41.85	999.00		999.00	-0.92	0.00
20 11 21 24	79.50	14.67	3.68	41.09	999.00	71.30	13.93	4.41	41.55	67.57	7.87	12.15	42.38	999.00	-1.28	999.00	-0.81	0.00
20 11 22 1	99.80	14.94	11.67	41.93	999.00	92.30	14.08	11.84	42.43	88.60	7.37	17.71	43.26	999.00	-1.37	999.00	-0.83	0.00
20 11 22 2	113.80	13.23	4.38	41.06	999.00	108.00	12.60	5.12	41.59	109.20	6.54	15.25	42.53	999.00	-1.48	999.00	-0.95	0.00
20 11 22 3	109.50	14.21	3.96	40.79	999.00	102.70	13.71	4.19	41.30	104.70	7.09	14.87	42.27	999.00	-1.48	999.00	-0.96	0.00
20 11 22 4	100.70	15.89	6.74	40.25	999.00	93.80	15.15	7.79	40.11	96.20	7.15	12.88	40.84	999.00	0.62	999.00	-0.09	0.12
20 11 22 5	67.33	18.39	2.85	38.52	999.00	61.42	17.41	3.85	38.27	60.87	11.50	9.68	39.20	999.00	-0.93	999.00	-1.11	0.01
20 11 22 6	65.69	17.42	4.17	38.37	999.00	58.91	16.45	5.40	38.09	59.91	10.34	10.56	39.32	999.00	-0.77	999.00	-1.16	0.00
20 11 22 7	64.92	21.37	3.58	37.24	999.00	57.46	20.49	4.39	37.21	56.37	12.70	11.08	38.50	999.00	-1.36	999.00	-1.33	0.08
20 11 22 8	69.41	23.48	4.13	35.98	999.00	61.89	23.01	4.62	36.20	60.95	15.12	9.95	37.47	999.00	-1.52	999.00	-1.29	0.08
20 11 22 9	67.72	26.26	3.96	35.67	999.00	60.19	25.26	5.01	35.94	59.19	16.44	10.62	37.22	999.00		999.00	-1.27	0.05
20 11 22 10	66.95	20.65	4.36	36.44	999.00	58.96	19.60	5.07	36.73	58.46	12.47	9.73	37.99	999.00		999.00	-1.23	0.08
20 11 22 11	62.80	24.27	3.72	37.05	999.00	55.92	23.06	4.16	37.36	56.76	14.61	10.40	38.68	999.00		999.00	-1.34	0.12
20 11 22 12	59.02	25.45	4.11	37.05	999.00	51.97	23.70	5.10	37.41	49.94	16.17	10.13	38.74	999.00		999.00	-1.36	0.06
20 11 22 13	54.42	25.62	5.12	37.57	999.00	48.39	23.98	4.79	37.91	45.33	15.01	10.80	39.29	999.00		999.00	-1.40	0.06
20 11 22 14	27.35	21.70	4.75	37.32	999.00	22.91	16.50	6.45	37.55	20.87	16.85	8.78	38.88	999.00		999.00	-1.40	0.01
20 11 22 15	19.39	25.41	3.53	35.85	999.00	15.48	21.37	5.06	36.18	15.10	18.78	9.25	37.62	999.00		999.00	-1.41	0.01
20 11 22 16	9.14	22.08	7.57	35.05	999.00	3.76	20.03	7.71	35.39	5.32	18.24	8.87	36.78	999.00		999.00	-1.37	0.00
20 11 22 17	360.00	23.54	5.94	34.48	999.00	355.20	21.98	6.00	34.85	353.30	17.98	7.79	36.38	999.00		999.00	-1.58	0.00
20 11 22 18	352.20	23.62	4.36	34.49	999.00	348.00	22.86	5.10	34.91	343.10	18.79	7.15	36.41	999.00		999.00	-1.45	0.00
20 11 22 19		23.24	3.83		999.00		23.06	4.67		331.10	15.89	7.57		999.00	-1.95		-1.50	0.00
20 11 22 20		21.78			999.00		21.11		34.87			7.52			-2.00 -2.10		-1.56	0.00
20 11 22 21		17.98	5.13		999.00		17.47	5.39		316.90	12.18			999.00	-2.10 -2.25		-1.79 -1.92	0.00
20 11 22 22 20 11 22 23		21.56 18.22	4.07		999.00		20.82 16.93	4.97		296.00	12.96 10.28	12.45 11.37		999.00 999.00	-2.25 -2.01		-1.92 -1.44	0.00
20 11 22 23 20 11 22 24		18.22	4.98					5.97		288.20					-2.01 -2.09		-1.44 -1.56	0.00
20 11 22 24 20 11 23 1		14.88	6.40 7.50		999.00 999.00		14.50 13.82	6.29 7.63		269.50 257.00	10.63 8.79	10.50 11.32		999.00 999.00	-2.09 -2.05		-1.56 -1.39	0.00
20 11 23 1		17.53	5.05		999.00		16.28	6.18		251.80	10.79	10.37		999.00	-2.03		-1.39	0.00
20 11 23 2		13.34	6.66		999.00		12.18	6.87		224.00	8.42	11.98		999.00	-2.13		-1.43	0.00
20 11 23 4		13.14	5.94		999.00		12.10		33.57			11.72		999.00	-2.13		-1.49	0.00
20 11 20 4	220.20	10.14	J. J4	J L . J U	222.00	210.00	12.00	, • + 7	JJ.J1	212.UU	1.05	11.12	55.05	222.00	2 · 1 J	222.00	1.72	0.00

20 11 23 5 207.90	15.07	8.33		999.00 20		13.50	8.94		200.60	8.13	14.00		999.00		999.00	-1.42	0.00
20 11 23 6 226.00	16.04	4.14	33.78		9.30	14.35	4.76		212.20	9.58	9.91	35.83	999.00	-2.03	999.00	-1.38	0.00
20 11 23 7 246.20	16.58	5.99	34.97	999.00 23	39.90	15.51	6.53	35.65	236.40	10.55	9.87	37.02	999.00	-2.11	999.00	-1.40	0.00
20 11 23 8 259.20	18.26	4.28	35.29	999.00 25	2.30	16.33	5.15	35.88	245.90	9.95	9.75	37.02	999.00	-1.36	999.00	-0.86	0.00
20 11 23 9 255.00	16.85	4.83	35.67	999.00 24	16.00	13.75	5.93	35.97	240.10	8.95	9.13	37.01	999.00	-1.69	999.00	-1.38	0.00
20 11 23 10 270.90	15.69	5.12	36.43	999.00 26	2.60	13.74	6.17	36.99	256.80	8.95	11.53	38.58	999.00	-2.09	999.00	-1.51	0.00
20 11 23 11 281.00	16.31	7.77	37.83		4.50	16.00	8.95	38.58	265.60	12.42	13.54	40.39	999.00	-2.86	999.00	-2.00	0.00
20 11 23 12 287.40	14.95		39.58		30.60	14.47	7.64	40.29	273.80	12.00	10.40	42.68	999.00	-3.26	999.00	-2.64	0.00
20 11 23 13 291.60		11.47	40.46		86.10	14.32	11.62		282.70	11.08	16.30	43.81	999.00	-3.35	999.00	-2.83	0.00
20 11 23 14 298.30	13.82	7.39	40.98		94.30	13.38	7.70		294.50	9.59	14.89	44.45	999.00	-3.48	999.00	-2.99	0.00
20 11 23 14 298.30		6.25	40.30		95.00		7.70		289.20	8.73	13.21	43.95	999.00	-2.06	999.00		0.00
	13.09					12.47										-1.53	
20 11 23 16 303.10	10.69	7.31	41.39	999.00 29		10.13	7.09		296.60	6.38	12.72	43.95	999.00	-1.73	999.00	-1.23	0.00
20 11 23 17 310.50	9.17	5.75	41.83		14.90	8.16	6.12		291.10	3.66	10.11	43.97	999.00	-0.96	999.00	-0.54	0.00
20 11 23 18 284.00	8.64	5.41	41.78		5.00	8.49	4.35		256.30	4.95	6.20	42.24	999.00	-0.60	999.00	-0.13	0.00
20 11 23 19 303.60	11.21	1.78	41.81		94.00	10.48	2.74		269.00	4.10	6.09	41.73	999.00	0.41	999.00	0.78	0.00
20 11 23 20 309.70	10.15	3.37	41.60	999.00 29	7.30	9.82	2.79		256.60	3.76	4.79	41.12	999.00	0.28	999.00	0.67	0.00
20 11 23 21 319.70	12.12	3.16	40.92	999.00 31	1.80	11.21	4.00	41.32	263.60	4.92	11.39	40.42	999.00	1.05	999.00	1.40	0.00
20 11 23 22 334.70	11.04	4.62	40.43	999.00 32	29.30	10.74	4.71	40.90	322.30	5.78	6.13	40.28	999.00	-0.21	999.00	0.28	0.00
20 11 23 23 26.89	9.70	6.20	39.76	999.00 2	21.51	8.05	7.13	40.29	14.09	6.99	12.49	40.50	999.00	-1.39	999.00	-0.88	0.00
20 11 23 24 39.49	8.90	9.52	38.86	999.00 3	35.15	8.73	8.70	39.39	32.28	6.44	12.63	40.32	999.00	-1.40	999.00	-0.86	0.00
20 11 24 1 53.54	11.01	5.27	38.22	999.00 4	7.61	10.85	4.67	38.75	50.80	6.06	10.32	39.48	999.00	-1.18	999.00	-0.65	0.00
20 11 24 2 65.28	11.31	3.69	37.11	999.00 5	8.10	10.95	4.33	37.62	58.30	6.64	11.31	38.28	999.00	-1.17	999.00	-0.64	0.00
20 11 24 3 68.54	11.04	3.34	36.62		1.59	10.80	3.22	37.12	63.72	6.70	8.81	37.66	999.00	-1.11	999.00	-0.60	0.00
20 11 24 4 69.38	11.29	3.16	36.07		51.71	11.09	3.25	36.56	61.43	6.79	8.45	37.10	999.00	-1.09	999.00	-0.59	0.00
20 11 24 5 78.90	10.95	4.30	36.09		1.90	10.54	4.57	36.56	75.90	5.16	11.12	36.95	999.00	-0.77	999.00	-0.29	0.00
20 11 24 6 81.70	10.17	4.76	36.19		2.40	9.87	4.17	36.68	66.22	4.75	9.07	36.91	999.00	-0.67	999.00	-0.20	0.00
20 11 24 7 100.40	9.14	6.43	36.83		94.30	8.69	7.43	37.29	89.60	3.81	13.20	37.47	999.00	-0.68	999.00	-0.20	0.00
20 11 24 8 122.70	9.72	1.64	36.93		21.20	9.32	2.07		124.60	3.16	11.08	37.26	999.00	-0.30	999.00	-0.04	0.00
20 11 24 9 130.10	15.75	2.59	36.47	999.00 12		11.83	3.88		142.30	4.22	15.07	36.31	999.00	0.85	999.00	-0.06	0.00
20 11 24 10 132.90	12.90	4.97	36.17	999.00 12		11.40	5.39		126.30	6.70	11.78	37.00	999.00	-1.37	999.00	-0.98	0.00
20 11 24 10 132.90	9.89	8.62	36.17		25.20		9.09		131.10	5.94	14.30	37.00	999.00	-1.95	999.00	-1.38	0.00
						9.04											
20 11 24 12 142.70	10.52	7.85	36.85	999.00 13		10.17	8.15		137.40	7.00	16.44	38.90	999.00	-2.13	999.00	-1.51	0.00
20 11 24 13 156.50	10.44	5.26	37.61	999.00 14		10.47	5.92		146.70	6.82	14.31	39.67	999.00	-1.96	999.00	-1.36	0.00
20 11 24 14 153.00	9.81		39.02	999.00 14		9.34	8.11		148.10	6.00	15.14	40.97	999.00	-1.89	999.00	-1.28	0.00
20 11 24 15 158.10	15.26	6.43	39.82	999.00 15		14.59	7.49		154.60	8.04	15.63	41.57	999.00	-1.70	999.00	-1.17	0.00
20 11 24 16 139.70	10.97	6.73	37.99	999.00 13		9.66	8.30		130.60	4.44	17.66	39.42	999.00		999.00	-0.57	0.00
20 11 24 17 132.40	17.86	4.15	37.33	999.00 12		15.45	5.86		130.50	7.50	14.83	37.63	999.00	0.06	999.00	0.40	0.01
20 11 24 18 129.10	17.15	3.80	37.54	999.00 12		15.53	4.78		122.90	8.06	12.59	37.70	999.00	-0.21	999.00	0.23	0.00
20 11 24 19 129.10	17.51	3.63	37.99	999.00 12	21.20	15.27	4.86	38.45	121.00	7.65	13.44	38.58	999.00	-0.75	999.00	-0.33	0.00
20 11 24 20 132.50	17.82	4.27	38.39	999.00 12	24.70	16.05	5.14	38.82	125.20	8.59	13.21	39.29	999.00	-0.96	999.00	-0.52	0.00
20 11 24 21 141.10	16.54	5.51	38.39	999.00 13	32.90	14.52	6.39	38.82	133.70	8.09	14.78	39.29	999.00	-0.95	999.00	-0.53	0.00
20 11 24 22 150.10	17.36	4.64	39.06	999.00 14	12.80	15.20	6.13	39.47	142.00	8.19	13.61	40.03	999.00	-0.91	999.00	-0.52	0.00
20 11 24 23 159.20	20.58	3.00	39.35	999.00 15	2.00	17.52	4.40	39.65	152.10	8.29	13.88	40.01	999.00	-0.45	999.00	-0.26	0.00
20 11 24 24 165.60	20.06			999.00 15		16.93	4.22	39.90	159.80		13.30	39.70	999.00		999.00	0.40	0.00
20 11 25 1 181.50	20.36			999.00 17		17.27	4.97		175.90		11.58		999.00		999.00	-0.13	0.00
20 11 25 2 190.60	15.92			999.00 18		12.93	3.43		179.60	5.01	10.15		999.00		999.00	0.29	0.00
20 11 25 3 180.70	17.49			999.00 17		13.92	4.14		158.60	3.82	12.56		999.00		999.00	1.06	0.00
20 11 25 4 188.50	19.48			999.00 18		16.80	4.32		184.20	8.36	12.09		999.00		999.00	-0.26	0.00
20 11 25 4 100.50	19.06			999.00 18		16.20	4.84		185.60	8.37	12.46		999.00		999.00	-0.28	0.00
20 11 25 6 189.50	20.45			999.00 18		17.27	5.44		181.20	8.58	11.56		999.00		999.00	-0.08	0.00
20 11 25 7 196.00	19.86			999.00 19		17.44	5.45		192.80	8.48	13.66		999.00		999.00	-0.47	0.00
20 11 25 7 196.00	20.85			999.00 18		18.92			183.10		12.82				999.00		0.00
20 11 23 0 189.00	20.03	J.3U	43.30	999.UU 18	5.50	10.92	5.60	43.72	103.10	10.04	12.02	40.22	999.00	-1.2/	222.00	-0.71	0.00

20 11 25 9 182.10	14.07	4.49		999.00 177.0		5.10		175.00	6.61	9.96		999.00		999.00	-0.76	0.00
20 11 25 10 174.60	17.54	3.27	42.18	999.00 167.4	0 15.40	3.63		165.00	7.17	12.42	43.22	999.00	-1.03	999.00	-0.73	0.01
20 11 25 11 169.50	15.35	4.25	43.20	999.00 161.8	0 13.13	5.18	43.66	156.40	6.02	15.18	44.26	999.00	-1.25	999.00	-0.72	0.04
20 11 25 12 180.20	16.14	5.19	44.28	999.00 173.9	0 13.99	5.94	44.82	173.30	7.59	12.65	45.54	999.00	-1.29	999.00	-0.72	0.04
20 11 25 13 175.70	14.83	5.75	45.70	999.00 168.5	0 12.91	5.91	46.09	165.20	5.74	15.90	46.92	999.00	-1.17	999.00	-0.89	0.02
20 11 25 14 166.00	14.86	4.92	46.83	999.00 159.0	0 12.71	5.25	47.08	151.40	5.80	14.59	47.93	999.00	-1.01	999.00	-0.76	0.08
20 11 25 15 167.70	17.16	4.66	47.75	999.00 160.9		5.07	47.96	153.70	6.73	13.97	48.70	999.00	-0.79	999.00	-0.64	0.03
20 11 25 16 180.20	18.86	4.84	48.40	999.00 174.3		5.77		172.80	8.28	11.93	49.31	999.00	-1.01	999.00	-0.86	0.02
20 11 25 17 183.00	20.43	5.29	48.97	999.00 178.3		5.55		176.80	9.96	12.45	49.84	999.00	-0.70		-0.84	0.00
20 11 25 18 183.10	20.64	4.84	49.53	999.00 178.0		5.44		179.10	9.09	13.02	50.10	999.00	-0.42		-0.59	0.00
20 11 25 10 103.10	21.45	4.28	50.54	999.00 168.3		4.80		164.30	8.59	13.02	50.87	999.00	-0.07	999.00		0.00
															-0.23	
20 11 25 20 167.10	21.49	2.64		999.00 159.9		3.28		152.80	8.31	12.34	51.59	999.00	0.00	999.00	0.22	0.00
20 11 25 21 149.30	15.30	3.28	51.17			4.89		132.50	5.96	13.86	51.17	999.00	-0.37		-0.23	0.00
20 11 25 22 154.30	14.29	3.52		999.00 145.		5.55		140.40	4.40	13.30	50.76	999.00	0.18	999.00	0.33	0.00
20 11 25 23 190.70	12.65	4.64	50.18	999.00 185.5		5.08		177.70	3.88	10.38	50.23	999.00	-0.10	999.00	-0.42	0.19
20 11 25 24 192.70	18.58	3.76	50.98	999.00 187.6	0 15.69	4.72		186.80	7.15	12.37	51.00	999.00	0.10	999.00	-0.56	0.00
20 11 26 1 201.10	14.79	3.88	50.97	999.00 193.0	0 12.38	3.92	50.43	186.90	4.34	11.92	50.99	999.00	-0.08	999.00	-0.50	0.00
20 11 26 2 246.50	19.78	4.23	50.60	999.00 240.6	0 17.65	4.43	50.40	232.80	10.29	9.36	50.99	999.00	-0.44	999.00	-0.56	0.00
20 11 26 3 230.90	21.66	3.97	50.38	999.00 224.6	0 19.62	4.68	50.24	218.20	12.18	8.63	50.95	999.00	-0.72	999.00	-0.83	0.02
20 11 26 4 247.10	22.93	4.81	50.50	999.00 242.0	0 20.87	4.76	50.50	236.90	12.72	9.43	51.32	999.00	-0.97	999.00	-0.90	0.00
20 11 26 5 243.40	19.85	4.25	50.29	999.00 237.8	0 18.39	3.98	50.45	232.70	11.35	8.86	51.22	999.00	-0.94	999.00	-0.75	0.00
20 11 26 6 236.90	21.20	4.15	49.82	999.00 231.8	0 19.57	4.59	49.98	226.60	13.30	7.46	50.69	999.00	-0.94	999.00	-0.80	0.00
20 11 26 7 244.30	22.36	4.70	48.50	999.00 239.3		4.70	48.60	235.70	13.10	9.36	49.76	999.00	-1.32		-1.27	0.00
20 11 26 8 247.10	22.81	5.47	47.37	999.00 242.1		6.08		238.00	14.01	9.53	48.71	999.00	-1.34	999.00	-1.39	0.00
20 11 26 9 249.80	22.13	5.19	46.36	999.00 244.2		6.45		240.80	13.41	10.00	47.83	999.00	-1.55	999.00	-1.41	0.00
20 11 26 10 243.10	17.95	4.83	45.91	999.00 239.8		5.58		235.80	11.02	10.22	47.23	999.00	-1.22	999.00	-1.06	0.00
20 11 26 11 245.30	17.98	5.63	45.62	999.00 240.8		6.26	45.78	236.10	12.33	10.22	47.13	999.00	-1.90	999.00	-1.67	0.00
20 11 26 12 248.00	19.96	4.53	45.31	999.00 243.4		4.41		238.10	13.51	9.37	47.32	999.00	-1.97		-1.59	0.00
20 11 26 13 256.80	15.44	6.74	44.84	999.00 252.5		7.98		246.10	10.20	11.17	47.17			999.00	-1.57	0.00
20 11 26 14 256.70	16.68	5.82	45.07	999.00 252.3		6.56		249.00	10.60	11.06	47.24	999.00	-2.22		-1.64	0.00
20 11 26 15 256.10	13.05	7.83	45.98	999.00 250.		8.79		244.80	8.49	10.95	48.10	999.00	-2.01	999.00	-1.46	0.00
20 11 26 16 244.20	16.03	4.98	46.13	999.00 239.5		4.55		235.30	10.43	9.58	47.99	999.00	-1.78	999.00	-1.27	0.00
20 11 26 17 240.40	11.46	3.93	45.91	999.00 235.2		3.88		230.10	6.85	7.00	47.50	999.00	-1.44	999.00	-0.94	0.00
20 11 26 18 235.90	12.77	3.26	46.03	999.00 229.		4.05		220.60	6.27	7.85	47.29	999.00	-1.29	999.00	-0.86	0.00
20 11 26 19 219.50	13.38	2.89	45.85	999.00 212.		3.21		206.60	5.69	9.81	47.11	999.00	-1.31		-0.90	0.00
20 11 26 20 223.20	13.29	2.61	45.62	999.00 215.8		3.28		207.40	6.06	10.14	46.97		-1.33	999.00	-0.94	0.00
20 11 26 21 228.00	13.80	2.30	45.38	999.00 219.9		3.15		213.00	5.88	9.83	46.60	999.00	-1.08	999.00	-0.76	0.00
20 11 26 22 233.70	13.65	3.24	45.18	999.00 226.2		4.01		217.80	6.19	7.96	46.23	999.00	-0.95	999.00	-0.60	0.00
20 11 26 23 241.10	12.10	3.88	45.18	999.00 234.5	0 9.91	3.49		214.50	3.60	7.98	45.26	999.00	0.15	999.00	0.29	0.00
20 11 26 24 235.80	12.36	5.92	44.98	999.00 227.3	0 10.91	7.23	45.17	211.70	4.49	13.86	45.18	999.00	-0.33	999.00	-0.10	0.00
20 11 27 1 243.10	10.25	5.02	44.99	999.00 232.3	0 8.77	5.87	45.20	220.90	3.89	5.44	45.35	999.00	-0.38	999.00	-0.12	0.00
20 11 27 2 238.30	11.98	2.63	44.99	999.00 233.3	0 10.11	3.33	45.20	222.10	4.88	5.90	45.35	999.00	-0.89	999.00	-0.49	0.00
20 11 27 3 248.70	12.76	5.59	43.71	999.00 242.4	0 11.47	5.56	44.10	236.70	6.79	8.97	44.84	999.00	-1.30	999.00	-0.86	0.00
20 11 27 4 244.90	10.03	7.39	43.13	999.00 236.6	0 9.46	6.79	43.60	226.00	5.93	8.94	44.59	999.00	-1.45	999.00	-0.98	0.00
20 11 27 5 245.00	10.80	6.02		999.00 238.9		7.55		230.10	5.89	10.52		999.00		999.00	-0.84	0.00
20 11 27 6 264.00	12.48	6.20		999.00 259.0		7.18		254.10	6.76	10.48		999.00		999.00	-0.95	0.00
20 11 27 7 268.90	11.78	5.21		999.00 262.9		6.51		262.70	6.80	10.97		999.00		999.00	-0.81	0.00
20 11 27 8 252.40	10.00	8.15		999.00 247.2		8.65		242.30	5.38	9.89		999.00		999.00	-0.92	0.00
20 11 27 8 232.40	9.05	7.50		999.00 224.9		7.68		212.10	5.14	11.50		999.00		999.00	-1.00	0.00
20 11 27 9 232.10	9.38	6.96		999.00 264.8		6.74		260.20	6.21	11.05		999.00		999.00	-1.30	0.00
20 11 27 10 268.70	12.80	6.01		999.00 251.6		6.70		250.60	8.15	11.35		999.00		999.00	-1.30	0.00
20 11 27 11 236.00	11.93	9.17		999.00 266.2		8.89			8.51	12.79				999.00		
20 11 27 12 270.00	11.93	J•⊥/	41.30	222.UU 200.	0 11.19	0.09	41.90	263.80	0.31	12.19	43.19	999.00	-1.98	JJJ.00	-1.43	0.00

20 11 27 13 243.40	11.82	6.32	42.06	999.00	238 30	11.29	6.34	42 61	234.30	8.86	10.09	44 04	999.00	-1 94	999.00	-1.39	0.00
20 11 27 14 252.40	14.84	11.10	42.68	999.00	248.30	14.00	12.45		241.80	9.55	14.24	44.49	999.00	-1.88	999.00	-1.34	0.00
20 11 27 15 252.00	11.86	7.74	42.24	999.00	247.50	11.07	7.95		243.40	7.85	12.50	44.09	999.00		999.00	-1.20	0.00
20 11 27 16 217.30	13.64	4.38	42.31	999.00	211.40	12.68	5.10		207.80	7.92	10.97	44.04		-1.70	999.00	-1.17	0.00
20 11 27 17 225.70	13.29	3.71	42.74	999.00	220.20	11.84	4.97		219.30	7.36	8.33	44.22	999.00	-1.38	999.00	-0.90	0.00
20 11 27 18 218.80	13.61	4.13	42.68	999.00	211.70	11.87	4.78		204.20	6.03	12.21	43.91	999.00	-1.14	999.00	-0.69	0.00
20 11 27 19 240.70	13.82	3.02	42.34	999.00	235.80	12.01	3.59	42.78	232.60	7.18	8.02	43.35	999.00	-0.99	999.00	-0.55	0.00
20 11 27 20 245.80	13.54	4.61	42.28	999.00	240.10	11.64	4.80	42.70	234.10	7.14	8.44	43.43	999.00	-1.20	999.00	-0.75	0.00
20 11 27 21 235.30	16.38	4.22	42.62	999.00	227.10	13.82	5.23	43.00	218.10	7.91	9.75	43.63	999.00	-0.79	999.00	-0.51	0.00
20 11 27 22 244.60	16.46	3.61	42.99	999.00	239.80	14.21	4.02	43.31	233.70	8.19	8.49	43.81	999.00	-0.87	999.00	-0.53	0.00
20 11 27 23 261.30	19.16	4.06	42.91	999.00	255.60	16.58	5.12	43.27	249.90	9.22	9.64	43.66	999.00	-0.50	999.00	-0.20	0.00
20 11 27 24 299.40	23.20	4.29	41.63	999.00	293.50	21.74	5.46	42.00	289.80	13.39	11.70	42.44	999.00	-1.32	999.00	-0.81	0.00
20 11 28 1 309.20	21.32	4.24	39.81	999.00	303.20	20.47	4.92	40.27	300.30	12.34	10.81	40.66	999.00	-1.07	999.00	-0.58	0.00
20 11 28 2 312.00	18.29	3.70	38.35	999.00	306.00	18.08	4.69	38.83	302.30	11.32	9.81	39.28	999.00	-0.86	999.00	-0.39	0.00
20 11 28 3 312.60	15.89	4.12	37.18	999.00	307.20	15.59	4.84	37.64		9.22	9.24	37.77	999.00	-0.67	999.00	-0.19	0.00
20 11 28 4 296.10	11.87	7.77	36.85	999.00	287.20	10.91	8.67		260.90	5.34	9.81	37.39	999.00	0.07	999.00	0.47	0.00
20 11 28 5 281.00	12.94	2.02	36.00	999.00	265.20	11.62	4.18	36.11		6.38	4.79	35.38	999.00	0.92	999.00	0.81	0.00
20 11 28 6 281.30	14.74	2.49	34.98	999.00	263.40	12.87	2.83		248.00	5.65	7.38	34.07	999.00	0.95	999.00	0.54	0.00
20 11 28 7 301.00	14.88	1.75	34.98	999.00	284.60	13.47	2.50		249.10	6.58	7.41	34.07	999.00	2.32	999.00	2.04	0.00
20 11 28 8 298.30	14.32	1.98	34.77	999.00	282.50	13.34	1.54		248.40	5.54	6.99	32.35	999.00	2.54	999.00	2.23	0.00
20 11 28 9 279.70	12.01	3.77	34.26	999.00	261.50	10.88	5.75		240.10	6.89	7.98	32.93	999.00	0.83	999.00	-0.24	0.00
20 11 28 10 266.60	8.51	8.36	33.77	999.00	253.60	7.90	8.86		235.50	7.03	9.70	34.84	999.00	-1.77	999.00	-1.45	0.00
20 11 28 11 264.00	9.85	9.14	35.04	999.00	257.50	9.52	9.51		248.10	7.66	16.27	37.39	999.00	-2.65	999.00	-2.17	0.00
20 11 28 12 238.80 20 11 28 13 235.70	11.11 12.82	8.89	36.73 38.19	999.00	234.20 231.30	10.70 12.23	9.92 8.79	37.25 38.64	230.30 225.80	8.48 10.95	15.37 8.77	39.56	999.00 999.00	-3.04	999.00 999.00	-2.54 -2.19	0.00
20 11 28 14 232.40		8.06	39.92	999.00	228.00		7.52		223.00		11.85	41.01 42.55	999.00	-2.61	999.00	-2.19 -2.12	0.00
20 11 28 15 228.60	14.50 15.54	6.67 5.45	41.31	999.00	224.20	14.01 15.08	6.55		223.10	10.69 11.87	9.86	42.33	999.00	-2.47 -2.35	999.00	-2.12	0.00
20 11 28 15 228.00	18.89	5.21	42.09	999.00	222.50	17.96	5.63		218.60	13.31	9.51	44.13	999.00	-1.83	999.00	-1.31	0.00
20 11 28 17 226.00	17.41	3.70	42.22	999.00	219.60	15.72	4.67		213.00	9.88	8.69	43.59	999.00	-0.99	999.00	-0.58	0.00
20 11 28 18 217.20	19.74	1.91	41.67	999.00	208.80	17.27	2.27		201.10	7.20	10.92	41.42	999.00	0.79	999.00	0.87	0.00
20 11 28 19 221.10	22.61	1.59	41.38	999.00	212.80	19.03	2.08		206.90	7.83	10.08	40.26	999.00	1.19	999.00	0.92	0.00
20 11 28 20 220.80	20.46	1.38	41.38	999.00	213.40	17.11	1.90		210.60	7.95	8.28	40.26	999.00	1.39	999.00	1.07	0.00
20 11 28 21 222.40	22.92	1.75	40.19	999.00	213.60	18.66	1.64		201.60	6.66	10.58	38.25	999.00	2.49	999.00	1.91	0.00
20 11 28 22 224.80	25.09	1.66	39.79	999.00	215.40	20.42	2.38		201.50	7.22	10.50	37.54		2.53	999.00	1.94	0.00
20 11 28 23 228.50	24.45	1.77	39.50	999.00	218.70	20.58	2.44		211.90	9.55	8.78	37.68	999.00	1.69	999.00	1.27	0.00
20 11 28 24 229.00	24.41	2.01	38.99	999.00	219.90	20.67	2.40		211.20	9.10	9.28	37.31		1.75	999.00	1.39	0.00
20 11 29 1 233.80	23.67	2.83	39.17	999.00	223.60	20.26	3.24	38.72	210.60	9.28	10.51	37.67	999.00	1.54	999.00	1.16	0.00
20 11 29 2 224.20	21.63	3.29	38.66	999.00	213.00	18.48	3.94	38.41	204.10	7.71	10.50	37.28	999.00	1.01	999.00	0.84	0.00
20 11 29 3 221.80	21.90	2.61	38.25	999.00	211.20	18.08	3.23	37.99	198.60	7.52	10.45	36.93	999.00	1.53	999.00	1.23	0.00
20 11 29 4 219.70	22.73	2.68	37.96	999.00	207.20	18.61	3.39	37.39	193.70	7.64	11.27	36.03	999.00	1.93	999.00	1.19	0.00
20 11 29 5 217.70	23.34	2.41	37.36	999.00	206.50	18.94	2.42	36.35	194.80	7.23	10.90	35.02	999.00	2.33	999.00	1.44	0.00
20 11 29 6 211.20	22.37	2.52	36.38	999.00	201.20	17.77	3.34	35.68	194.30	7.27	11.01	34.65	999.00	1.44	999.00	0.76	0.00
20 11 29 7 207.50	21.30	2.70	35.63	999.00	198.90	16.69	3.48	35.06	192.00	6.09	13.64	34.51	999.00	0.79	999.00	0.34	0.00
20 11 29 8 210.00	24.80	2.60	35.62	999.00	200.90	19.50	3.70	34.97		7.59	12.19	34.40	999.00	1.23	999.00	0.55	0.00
20 11 29 9 210.90	23.67	3.33	36.28	999.00	203.00	19.50	4.36	35.89	198.10	9.84	12.02		999.00	-0.43	999.00	-0.60	0.00
20 11 29 10 213.30	20.01	3.90		999.00		17.61	4.44		203.00	10.24	11.17		999.00		999.00	-1.15	0.00
20 11 29 11 218.10	16.11	5.78		999.00		14.64	6.62	37.87		9.92	12.34		999.00		999.00	-1.78	0.00
20 11 29 12 221.60	15.07	6.59		999.00		14.27	7.18		216.40	10.91	11.05		999.00		999.00	-2.02	0.00
20 11 29 13 220.50	14.52	5.55		999.00		13.95	5.20		215.10	10.45	11.19		999.00		999.00	-1.53	0.00
20 11 29 14 198.10	13.98	4.31		999.00		13.87	4.61		187.30	8.88	13.27		999.00		999.00	-1.25	0.00
20 11 29 15 211.10	12.36	6.67		999.00		11.55			204.30		12.06		999.00		999.00	-1.38	0.00
20 11 29 16 220.20	14.22	3.78	49.14	999.00	214.80	12.89	5.09	49.62	212.00	7.45	10.59	50.52	999.00	-1.30	999.00	-0.83	0.00

00 11 00 17 000 60	10 00 0	0.4 40 15	000 00 010 00	0 64	2 05	10 61	000 00	4 0 5	0 00	40 74	000 00	0.45	000 00	0.06	0 00
20 11 29 17 223.60			999.00 219.30	9.64	3.05		209.30	4.25	9.82		999.00		999.00	-0.06	0.00
20 11 29 18 219.30		.84 48.56	999.00 211.20	10.09	2.63		182.60	3.31	6.50	48.32	999.00	0.58	999.00	0.85	0.00
20 11 29 19 218.90		.10 48.37		9.11	3.55		155.50	3.64	9.39	46.87		2.04		1.79	0.00
20 11 29 20 179.60 20 11 29 21 193.70			999.00 173.10 999.00 188.60	8.55 12.38	1.59 1.72		156.40 180.40	3.20 3.69	6.99 6.84	46.37 44.93	999.00 999.00	1.71 3.58	999.00 999.00	1.72	0.00
20 11 29 21 193.70		.04 47.98 .31 47.98	999.00 185.30	13.89	1.55		172.80	3.97	8.52	44.93	999.00	3.45	999.00	3.64 2.88	0.00
20 11 29 22 193.00		.21 47.12		15.56	3.83		193.40	4.03	9.80	43.34	999.00	4.05	999.00	3.05	0.00
20 11 29 23 200.10		.91 47.12	999.00 227.70	12.41	11.07		231.30	3.92	28.02	43.34	999.00	5.02	999.00	4.67	0.00
20 11 29 24 229.00		.86 44.78	999.00 277.70	14.30	1.28		258.20	4.92	16.21	41.89	999.00	2.84	999.00	3.19	0.00
20 11 30 1 207.40		.89 43.02	999.00 317.00	16.99	5.01		310.60	10.11	9.34	42.63	999.00	-0.95	999.00	-0.51	0.00
20 11 30 2 323.10		.41 41.66	999.00 357.30	13.72	9.05		352.00	11.65	10.12	42.92	999.00	-1.23	999.00	-0.87	0.00
20 11 30 4 6.37		.20 41.11		12.72	9.50		354.30	11.08	8.92	42.41	999.00	-1.05	999.00	-0.81	0.00
20 11 30 5 1.51		.63 40.68	999.00 356.70	16.43	6.66		356.10	12.83	8.69	41.78	999.00	-1.47		-1.04	0.00
20 11 30 6 10.45		.92 39.78	999.00 6.00	16.04	9.00	40.24	7.96	14.86	8.63	40.63	999.00	-0.47	999.00	0.00	0.02
20 11 30 7 1.22		.00 38.42	999.00 356.90	20.42	7.80		355.60	18.08	7.23	39.20	999.00	-1.02	999.00	-0.55	0.04
20 11 30 8 0.19		.69 36.04	999.00 355.60	25.10	5.33		355.70	20.50	7.23	37.20	999.00		999.00	-0.73	0.03
20 11 30 9 353.50		.77 35.16	999.00 349.00	30.32	4.50		346.20	23.42	8.10	36.45	999.00	-1.40	999.00	-0.82	0.01
20 11 30 10 350.30		.67 33.30	999.00 345.60	30.38	4.56		343.00	22.66	7.28	35.06	999.00	-1.97	999.00	-1.26	0.03
20 11 30 11 348.60		.83 32.93	999.00 343.80	29.65	4.60		341.10	22.42	7.15	34.97	999.00	-2.19	999.00	-1.47	0.03
20 11 30 12 342.00	29.34 4.	.21 32.40	999.00 337.40	28.28	5.41	33.26	335.50	20.26	8.08	34.70	999.00	-2.44	999.00	-1.53	0.03
20 11 30 13 338.60	30.86 4.	.78 32.57	999.00 333.60	29.19	5.96	33.33	333.30	20.15	8.48	34.88	999.00	-2.16	999.00	-1.59	0.02
20 11 30 14 338.10	33.40 3.	.69 33.00	999.00 333.50	32.09	4.76	33.60	332.30	22.59	7.79	35.19	999.00	-2.22	999.00	-1.58	0.02
20 11 30 15 334.40	28.52 4.	.40 32.35	999.00 329.20	27.55	4.95	32.97	327.10	19.22	8.28	34.50	999.00	-2.04	999.00	-1.52	0.03
20 11 30 16 332.70	30.67 4.	.14 31.76	999.00 327.70	29.46	4.95	32.14	325.80	20.63	8.59	33.56	999.00	-1.72	999.00	-1.39	0.03
20 11 30 17 333.10	32.66 4.	.69 31.44	999.00 327.50	30.85	5.53	31.66	326.20	20.54	8.47	32.74	999.00	-1.16	999.00	-0.90	0.01
20 11 30 18 330.70	30.72 4.	.19 31.23	999.00 325.70	29.56	5.01	31.60	324.70	19.42	8.57	32.40	999.00	-1.22	999.00	-0.77	0.00
20 11 30 19 326.90	29.96 4.	.56 31.23	999.00 321.80	28.47	4.90	31.60	318.30	18.27	10.15	32.40	999.00	-1.54	999.00	-0.90	0.00
20 11 30 20 325.50	31.64 4.	.04 30.14		30.15	4.91	30.87	317.40	20.07	9.89	31.90	999.00	-1.81	999.00	-1.08	0.00
20 11 30 21 322.80	31.99 4.		999.00 317.20	30.89	5.30		313.90	19.74	9.91	31.42	999.00		999.00	-0.97	0.00
20 11 30 22 318.30			999.00 312.50	27.73	5.49		308.60	19.89	9.22	31.06	999.00	-1.51		-0.77	0.00
20 11 30 23 318.80		.56 29.01	999.00 313.30	28.59	5.64		308.40	19.02	9.78	30.50	999.00	-1.52	999.00	-0.77	0.00
20 11 30 24 318.20		.79 28.68	999.00 311.90	28.59	5.68		307.80	19.78	9.38	30.20	999.00	-1.53	999.00	-0.74	0.00
20 12 1 1 311.50		.54 28.42	999.00 305.50	26.23	5.99		303.30	18.43	9.70	29.80	999.00	-1.35	999.00	-0.57	0.01
20 12 1 2 314.00		.19 28.06	999.00 308.30	28.41	5.78		305.30	19.09	9.40	29.40	999.00	-1.36	999.00	-0.64	0.00
20 12 1 3 309.70			999.00 303.50	27.41	5.52		302.10	18.23	9.68	29.13	999.00	-1.36	999.00	-0.65	0.00
20 12 1 4 312.20			999.00 306.30	24.19	6.62		301.90	17.89	8.50	28.86	999.00	-1.28	999.00	-0.60	0.00
20 12 1 5 301.70		.98 27.24	999.00 293.70	20.19	6.38		286.30	13.44	10.38	28.59	999.00	-1.35	999.00	-0.83	0.00
20 12 1 6 306.40 20 12 1 7 311.20		.42 26.83 .26 26.55	999.00 300.70 999.00 305.70	24.59 23.60	5.36		298.10 302.00	15.37 16.81	10.90	28.10 27.85	999.00 999.00	-1.27	999.00 999.00	-0.63	0.00
20 12 1 7 311.20		.26 26.55 .18 26.41		23.41	6.06 4.68		294.80	15.11	9.68 11.15	27.65	999.00	-1.31	999.00	-0.65 -0.62	0.00
20 12 1 8 303.70		.50 26.25	999.00 287.20	17.92	6.65		278.40	12.20	8.40	27.68	999.00	-1.48	999.00	-1.01	0.00
20 12 1 10 285.90		.74 26.36	999.00 276.80	17.96	6.09	26.85	269.30	12.56	10.02	28.04	999.00	-1.88	999.00	-1.39	0.00
20 12 1 10 203.30			999.00 270.80	15.16	5.99		263.30	10.79	8.10		999.00		999.00	-1.71	0.01
				13.77	6.15		261.60	9.94			999.00		999.00	-2.07	0.01
20 12 1 13 279.90			999.00 270.90	14.80	6.45		261.00	10.11	10.48		999.00		999.00	-1.55	0.00
20 12 1 14 280.90			999.00 273.80	17.01	5.54		267.50	11.51	8.36		999.00		999.00	-1.44	0.00
20 12 1 15 289.00			999.00 282.40	20.38	4.80		275.10	14.93	8.01		999.00		999.00	-0.60	0.00
20 12 1 16 287.00			999.00 279.00	19.28	4.65		272.30	13.18	7.72		999.00		999.00	-0.44	0.00
20 12 1 17 285.30			999.00 276.80	17.54	4.68		268.50	11.06	8.34		999.00		999.00	-0.19	0.00
20 12 1 18 277.80			999.00 269.30	13.60	3.66		257.90	6.55	9.78		999.00		999.00	0.00	0.00
20 12 1 19 263.90			999.00 255.40	15.29	4.46		241.70	8.47	8.53		999.00		999.00	0.25	0.00
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20 12 3 4 237.40	20 12 3 3 235.20	23.87 3.77	31.83 9	999.00 227.30	20.00	4.81	31.96	216.40	11.11	8.60	31.98	999.00	0.12	999.00	0.14	0.00
20 12 3 6 218.20 25.51 3.06 30.22 999.00 209.00 21.45 4.22 30.22 202.80 10.89 10.54 30.23 999.00 -0.09 999.00 -0.12 0.00 20 12 3 7 214.80 27.38 2.94 30.48 999.00 206.70 24.05 3.29 30.38 201.30 11.61 11.75 30.26 999.00 0.30 999.00 0.36 0.00 20 12 3 8 223.60 22.81 2.99 30.28 999.00 217.60 19.27 3.83 30.17 211.60 9.58 9.39 29.66 999.00 0.34 999.00 0.36 0.00 20 12 3 10 226.30 20.11 4.44 30.02 999.00 219.30 19.03 3.83 30.17 211.60 21.20 21	20 12 3 4 237.40	24.41 3.23	31.47 9	999.00 231.10		3.78	31.68	223.80	14.07	7.47	31.88	999.00	-0.54	999.00	-0.28	0.00
20 12 3 7 214.80 27.38 2.94 30.48 999.00 206.70 24.05 3.29 30.38 201.30 11.61 11.75 30.26 999.00 0.30 999.00 0.25 0.00 20 12 3 8 223.60 22.81 2.99 30.22 999.00 217.60 19.27 3.83 30.17 211.60 9.58 9.99 29.86 999.00 0.34 999.00 0.36 0.00 20 12 3 10 226.30 20.11 4.44 30.02 999.00 218.40 17.19 5.42 30.19 211.10 10.45 9.95 31.08 999.00 -0.26 999.00 -1.14 0.00 20 12 3 11 212.60 23.87 3.80 31.54 999.00 205.40 21.40 4.23 31.71 200.40 12.54 11.79 33.07 999.00 -1.59 999.00 -1.58 0.00 20 12 3 12 221.20 23.33 4.33 32.27 999.00 213.70 20.69 4.60 32.45 2091.0 12.57 11.33 33.89 999.00 -1.67 999.00 -1.58 0.00 20 12 3 13 218.30 23.44 5.02 34.32 999.00 212.70 21.36 5.30 34.52 210.50 14.47 11.31 36.16 999.00 -1.84 999.00 -1.59 0.00 20 12 3 15 224.10 23.70 4.21 34.97 999.00 212.60 22.20 4.79 34.70 21.20 14.36 9.79 36.03 999.00 -1.71 999.00 -1.66 0.00 20 12 3 16 217.80 23.84 4.61 35.85 999.00 212.00 20.64 5.05 36.14 209.50 12.48 10.66 36.76 999.00 -0.66 999.00 -0.68 0.00 20 12 3 18 218.60 23.84 4.61 35.85 999.00 212.20 2.97 4.43 36.32 210.50 12.48 10.66 36.76 999.00 -0.66 999.00 -0.68 0.00 20 12 3 18 218.60 26.32 3.68 36.10 999.00 212.20 2.97 4.43 36.33 207.00 11.99 10.89 36.46 999.00 -0.55 999.00 -0.65 0.00 20 12 3 19 20.50 27.92 4.57 36.78 999.00 212.20 2.97 4.43 36.33 207.00 11.99 10.89 36.46 999.00 -0.55 999.00 -0.25 0.00 20 12 3 21 215.40 25.40 3.81 35.44 999.00 212.20 2.97 4.43 36.33 207.00 11.99 10.89 36.46 999.00 -0.55 999.00 -0.25 0.00 20 12 3 21 215.40 25.40 3.81 35.44 999.00 20.94 21.69 5.33 37.04 210.80 15.04 9.99 37.22 999.00 -0.55 999.00 -0.25 0.00 20 12 3 22 211.50 25.40 3.81 35.44 999.00 212.20 22.97 5.61 36.97 207.40 12.86 11.91 37.35 999.00 -0.57 999.00 -0.25 0.00 20 12 3 22 211.50 25.40 3.81 35.44 999.00 214.30 24.56 5.33 37.04 210.80 15.04 9.99 37.22 999.00 -0.55 999.00 -0.25 0.00 20 12 3 22 211.50 26.77 4.22 35.40 999.00 214.30 24.56 5.33 37.04 210.80 15.04 9.99 37.22 999.00 -0.57 999.00 -0.25 0.00 20 12 3 22 211.50 26.77 4.22 35.40 999.00 214.30 22.92 5.06 35.52 210.30 12.38 10.13 35.50 999.00 -0.08 999.00 0.0	20 12 3 5 228.80	22.87 3.46	30.90 9	999.00 220.20	19.96	4.10	30.99	209.00	10.58	10.23	31.06	999.00	0.06	999.00	0.09	0.00
20 12 3 8 223.60 22.81 2.99 30.22 999.00 217.60 19.27 3.83 30.17 211.60 9.58 9.39 29.86 999.00 0.34 999.00 0.36 0.00 20 12 3 10 226.30 20.11 4.44 30.02 999.00 219.30 19.03 3.83 30.01 208.00 10.12 9.50 30.10 999.00 -0.26 999.00 -0.19 0.00 20 12 3 10 226.30 20.11 4.44 30.02 999.00 218.40 17.19 5.42 30.19 211.10 10.45 9.95 31.08 999.00 -1.33 999.00 -1.14 0.00 20 12 3 12 221.20 23.87 3.80 31.54 999.00 213.70 20.69 4.60 32.45 209.10 12.54 11.79 33.89 999.00 -1.67 999.00 -1.59 999.00 -1.59 999.00 -1.59 999.00 -1.59 999.00 -1.59 999.00 -1.59 999.00 212 3 12 221.20 23.33 4.33 32.27 999.00 212.70 21.36 5.30 34.52 209.10 12.57 11.33 33.89 999.00 -1.84 999.00 -1.59 0.00 20 12 3 14 218.10 24.93 4.26 34.41 999.00 212.70 21.36 5.30 34.52 210.50 14.47 11.31 36.16 999.00 -1.84 999.00 -1.59 0.00 20 12 3 15 224.10 23.70 4.21 34.97 999.00 212.00 20.64 5.05 36.14 209.50 12.48 10.66 36.76 999.00 -1.01 999.00 -0.65 0.00 20 12 3 16 217.80 23.84 4.61 35.85 999.00 212.00 20.64 5.05 36.14 209.50 12.48 10.66 36.76 999.00 -0.65 999.00 -0.65 0.00 20 12 3 18 218.60 26.32 3.68 36.10 999.00 212.00 20.64 5.05 36.14 209.50 12.48 10.66 36.76 999.00 -0.65 999.00 -0.65 0.00 20 12 3 18 218.60 26.32 3.68 36.10 999.00 212.00 20.64 5.05 36.14 209.50 12.48 10.66 36.76 999.00 -0.66 999.00 -0.65 0.00 20 12 3 18 218.60 26.32 3.68 36.10 999.00 212.00 20.64 5.05 36.14 209.50 12.48 10.66 36.76 999.00 -0.65 999.00 -0.65 0.00 20 12 3 18 218.60 26.32 3.68 36.10 999.00 212.00 20.64 5.05 36.14 209.50 12.48 10.66 36.76 999.00 -0.65 999.00 -0.65 0.00 20 12 3 19 220.50 27.92 4.57 36.78 999.00 214.30 24.56 5.33 37.04 210.80 15.04 9.99 37.22 999.00 -0.55 999.00 -0.25 0.00 20 12 3 20 214.80 25.95 4.49 36.67 999.00 214.30 22.92 5.06 35.52 210.30 12.38 10.13 35.50 999.00 -0.75 999.00 -0.25 0.00 20 12 3 21 215.40 25.40 3.81 35.44 999.00 20.40 21.69 4.98 35.63 207.60 11.52 11.52 35.77 999.00 -0.27 999.00 -0.27 999.00 -0.20 0.00 20 12 3 22 22.120 26.77 4.22 35.40 999.00 217.30 25.20 3.82 36.71 214.20 14.46 8.97 36.58 999.00 -0.08 999.00 0.00 0.00 0.00 20 12 3 23 22.20 26.77	20 12 3 6 218.20	25.51 3.06	30.22 9	999.00 209.00	21.45	4.22	30.22	202.80	10.89	10.54	30.23	999.00	-0.09	999.00	-0.12	0.00
20 12 3 9 227.00 21.98 3.23 29.94 999.00 219.30 19.03 3.83 30.01 208.00 10.12 9.50 30.10 999.00 -0.26 999.00 -0.19 0.00 20 12 3 10 226.30 20.11 4.44 30.02 999.00 218.40 17.19 5.42 30.19 211.10 10.45 9.95 31.08 999.00 -1.33 999.00 -1.14 0.00 20 12 3 12 221.20 23.33 4.33 32.27 999.00 205.40 21.40 4.23 31.71 200.40 12.54 11.79 33.07 999.00 -1.59 999.00 -1.57 0.00 20 12 3 12 221.20 23.33 4.33 32.27 999.00 213.70 20.69 4.60 32.45 209.10 12.57 11.33 33.89 999.00 -1.67 999.00 -1.58 0.00 20 12 3 13 218.30 23.44 5.02 34.32 999.00 212.70 21.36 5.30 34.52 210.50 14.47 11.31 36.16 999.00 -1.84 999.00 -1.59 0.00 20 12 3 14 218.10 24.93 4.26 34.41 999.00 212.70 21.36 5.30 34.52 210.50 14.47 11.31 36.16 999.00 -1.84 999.00 -1.59 0.00 20 12 3 15 224.10 23.70 4.21 34.97 999.00 218.20 21.09 4.77 35.21 213.70 13.13 8.73 36.51 999.00 -1.01 999.00 -0.65 0.00 20 12 3 16 217.80 23.84 4.61 35.85 999.00 212.00 20.64 5.05 36.14 209.50 12.48 10.66 36.76 999.00 -1.01 999.00 -0.65 0.00 20 12 3 18 218.60 26.32 3.68 36.10 999.00 212.30 22.97 4.43 36.33 207.00 11.99 10.89 36.46 999.00 -0.23 999.00 -0.66 999.00 -0.04 0.00 20 12 3 19 220.50 27.92 4.57 36.78 999.00 214.30 24.56 5.33 37.04 210.80 15.04 9.99 37.22 999.00 -0.55 999.00 -0.25 999.00 -0.25 0.00 20 12 3 20 214.80 25.95 4.49 36.67 999.00 214.30 24.56 5.33 37.04 210.80 15.04 9.99 37.22 999.00 -0.55 999.00 -0.25 0.00 20 12 3 22 221.20 26.77 4.22 35.40 999.00 214.30 24.56 5.33 37.04 210.80 15.04 9.99 37.22 999.00 -0.55 999.00 -0.25 0.00 20 12 3 21 215.40 25.40 3.81 35.44 999.00 20.44 30.25 25.0 3.82 36.71 214.20 14.66 8.97 36.58 999.00 0.13 999.00 0.00 0.00 20 12 3 22 221.20 26.77 4.22 35.40 999.00 217.30 25.20 3.82 36.71 214.20 14.46 8.97 36.58 999.00 0.10 999.00 0.08 0.00 20 12 3 23 22.20 28.77 3.40 36.59 999.00 217.30 25.20 3.82 36.71 214.20 14.46 8.97 36.58 999.00 0.10 999.00 0.08 0.00 20 12 3 23 22.20 28.77 3.40 36.59 999.00 217.30 25.20 3.82 36.71 214.20 14.46 8.97 36.58 999.00 0.10 399.00 0.00 0.00 20 12 3 23 22.20 28.77 3.40 36.59 999.00 217.30 25.20 3.82 36.71 214.20 14.46 8.97 36	20 12 3 7 214.80	27.38 2.94	30.48 9	999.00 206.70	24.05	3.29	30.38	201.30	11.61	11.75	30.26	999.00	0.30	999.00	0.25	0.00
20 12 3 10 226.30 20.11 4.44 30.02 999.00 218.40 17.19 5.42 30.19 211.10 10.45 9.95 31.08 999.00 -1.33 999.00 -1.14 0.00 20 12 3 11 212.60 23.87 3.80 31.54 999.00 205.40 21.40 4.23 31.71 200.40 12.54 11.79 33.07 999.00 -1.59 999.00 -1.37 0.00 20 12 3 12 221.20 23.33 4.33 32.27 999.00 213.70 20.69 4.60 32.45 209.10 12.57 11.33 33.89 999.00 -1.67 999.00 -1.58 0.00 20 12 3 13 218.30 23.44 5.02 34.32 999.00 212.70 21.36 5.30 34.52 210.50 14.47 11.31 36.16 999.00 -1.84 999.00 -1.59 0.00 20 12 3 14 218.10 24.93 4.26 34.41 999.00 212.60 22.20 4.79 34.70 211.20 14.36 9.79 36.03 999.00 -1.71 999.00 -1.46 0.00 20 12 3 15 224.10 23.70 4.21 34.97 999.00 212.60 22.20 4.79 34.70 211.20 14.36 9.79 36.03 999.00 -0.95 999.00 -0.65 0.00 20 12 3 16 217.80 23.84 4.61 35.85 999.00 212.00 20.64 5.05 36.14 209.50 12.48 10.66 36.76 999.00 -1.01 999.00 -0.68 0.00 20 12 3 17 219.50 26.14 3.42 36.18 999.00 212.20 22.97 4.43 36.33 207.00 11.99 10.89 36.46 999.00 -0.23 999.00 -0.39 0.00 20 12 3 18 218.60 26.32 3.68 36.10 999.00 212.20 22.97 4.43 36.33 207.00 11.99 10.89 36.46 999.00 -0.23 999.00 -0.25 0.00 20 12 3 19 220.50 27.92 4.57 36.78 999.00 212.20 22.97 4.43 36.39 207.00 11.99 10.89 36.46 999.00 -0.23 999.00 -0.25 0.00 20 12 3 20 214.80 25.95 4.49 36.67 999.00 214.30 24.56 5.33 37.04 210.80 15.04 9.99 37.22 999.00 -0.55 999.00 -0.25 0.00 20 12 3 22 215.40 25.40 38.81 35.44 999.00 208.90 22.70 5.61 36.97 207.40 12.86 11.91 37.35 999.00 -0.75 999.00 -0.43 0.00 20 12 3 22 215.40 25.40 38.81 35.44 999.00 214.30 22.92 5.06 35.52 210.30 12.88 11.52 35.77 999.00 -0.75 999.00 -0.00 0.00 20 12 3 23 22 212.20 26.77 4.22 35.40 999.00 214.30 22.92 5.06 35.52 210.30 12.38 10.13 35.50 999.00 -0.08 999.00 0.00 0.00 20 12 3 23 23.20 28.77 3.40 36.59 999.00 217.30 25.20 3.82 36.71 214.20 14.46 8.97 36.58 999.00 -0.08 999.00 0.00 0.00 20 12 3 23 23.20 28.77 3.40 36.59 999.00 217.30 25.20 3.82 36.71 214.20 14.46 8.97 36.58 999.00 -0.08 999.00 0.00 0.00 0.00 0.00 0.00 0.0	20 12 3 8 223.60	22.81 2.99	30.22 9	999.00 217.60	19.27	3.83	30.17	211.60	9.58	9.39	29.86	999.00	0.34	999.00	0.36	0.00
20 12 3 11 212.60 23.87 3.80 31.54 999.00 205.40 21.40 4.23 31.71 200.40 12.54 11.79 33.07 999.00 -1.59 999.00 -1.37 0.00 20 12 3 12 221.20 23.33 4.33 32.27 999.00 213.70 20.69 4.60 32.45 209.10 12.57 11.33 33.89 999.00 -1.67 999.00 -1.58 0.00 20 12 3 13 218.30 23.44 5.02 34.32 999.00 212.70 21.36 5.30 34.52 210.50 14.47 11.31 36.16 999.00 -1.84 999.00 -1.59 0.00 20 12 3 15 224.10 23.70 4.21 34.97 999.00 212.60 22.20 4.79 34.70 211.20 14.36 9.79 36.03 999.00 -1.71 999.00 -1.46 0.00 20 12 3 16 217.80 23.84 4.61 35.85 999.00 212.00 20.64 5.05 36.14 209.50 12.48 10.66 36.76 999.00 -1.01 999.00 -0.65 0.00 20 12 3 18 218.60 26.32 3.68 36.10 999.00 213.90 23.16 4.24 36.52 210.80 13.83 9.21 37.02 999.00 -0.66 999.00 -0.39 0.00 20 12 3 19 220.50 27.92 4.57 36.78 999.00 214.30 24.56 5.33 37.04 210.80 15.04 9.99 37.22 999.00 -0.55 999.00 -0.25 0.00 20 12 3 22 214.80 25.95 4.49 36.67 999.00 224.30 22.70 5.61 36.97 207.40 12.86 11.99 37.35 999.00 -0.75 999.00 -0.43 0.00 20 12 3 22 221.20 26.77 4.22 35.40 999.00 214.30 22.92 5.06 35.52 210.30 12.38 10.13 35.50 999.00 -0.08 999.00 0.00 0.00 20 12 3 23 22 221.20 26.77 4.22 35.40 999.00 214.30 22.92 5.06 35.52 210.30 12.38 10.13 35.50 999.00 -0.08 999.00 0.00 0.00 20 12 3 23 22 221.20 26.77 4.22 35.40 999.00 214.30 22.92 5.06 35.52 210.30 12.38 10.13 35.50 999.00 -0.08 999.00 0.00 0.00 20 12 3 23 22 221.20 26.77 4.22 35.40 999.00 214.30 22.92 5.06 35.52 210.30 12.38 10.13 35.50 999.00 -0.08 999.00 0.00 0.00 20 12 3 23 223.20 28.77 3.40 36.59 999.00 214.30 22.92 5.06 35.52 210.30 12.38 10.13 35.50 999.00 -0.08 999.00 0.08 0.00	20 12 3 9 227.00	21.98 3.23	29.94 9	999.00 219.30	19.03	3.83	30.01	208.00	10.12	9.50	30.10	999.00	-0.26	999.00	-0.19	0.00
20 12 3 12 221.20 23.33 4.33 32.27 999.00 213.70 20.69 4.60 32.45 209.10 12.57 11.33 33.89 999.00 -1.67 999.00 -1.58 0.00 20 12 3 13 218.30 23.44 5.02 34.32 999.00 212.70 21.36 5.30 34.52 210.50 14.47 11.31 36.16 999.00 -1.84 999.00 -1.59 0.00 20 12 3 14 218.10 24.93 4.26 34.41 999.00 212.60 22.20 4.79 34.70 211.20 14.36 9.79 36.03 999.00 -1.71 999.00 -1.46 0.00 20 12 3 15 224.10 23.70 4.21 34.97 999.00 218.20 21.09 4.77 35.21 213.70 13.13 8.73 36.51 999.00 -0.95 999.00 -0.65 0.00 20 12 3 16 217.80 23.84 4.61 35.85 999.00 212.00 20.64 5.05 36.14 209.50 12.48 10.66 36.76 999.00 -1.01 999.00 -0.68 0.00 20 12 3 17 219.50 26.14 3.42 36.18 999.00 213.90 23.16 4.24 36.52 210.80 13.83 9.21 37.02 999.00 -0.66 999.00 -0.39 0.00 20 12 3 18 218.60 26.32 3.68 36.10 999.00 212.20 22.97 4.43 36.33 207.00 11.99 10.89 36.46 999.00 -0.23 999.00 -0.04 0.00 20 12 3 19 220.50 27.92 4.57 36.78 999.00 214.30 24.56 5.33 37.04 210.80 15.04 9.99 37.22 999.00 -0.55 999.00 -0.25 0.00 20 12 3 20 214.80 25.95 4.49 36.67 999.00 208.90 22.70 5.61 36.97 207.40 12.86 11.91 37.35 999.00 -0.77 999.00 -0.43 0.00 20 12 3 22 221.20 26.77 4.22 35.40 999.00 214.30 22.92 5.06 35.52 210.80 13.85 35.50 999.00 -0.27 999.00 -0.27 999.00 0.00 20 12 3 22 221.20 26.77 4.22 35.40 999.00 214.30 22.92 5.06 35.52 210.80 13.55 0.999.00 -0.08 999.00 0.00 0.00 20 12 3 23 223.20 28.77 3.40 36.59 999.00 214.30 22.92 5.06 35.52 210.80 13.55 0.999.00 -0.08 999.00 0.00 0.00 20 12 3 23 223.20 28.77 3.40 36.59 999.00 214.30 22.92 5.06 35.52 210.80 13.55 0.999.00 -0.08 999.00 0.00 0.00 0.00 0.00 0.00 0.0	20 12 3 10 226.30	20.11 4.44	30.02 9	999.00 218.40	17.19	5.42	30.19	211.10	10.45	9.95	31.08	999.00	-1.33	999.00	-1.14	0.00
20 12 3 13 218.30 23.44 5.02 34.32 999.00 212.70 21.36 5.30 34.52 210.50 14.47 11.31 36.16 999.00 -1.84 999.00 -1.59 0.00 20 12 3 14 218.10 24.93 4.26 34.41 999.00 212.60 22.20 4.79 34.70 211.20 14.36 9.79 36.03 999.00 -1.71 999.00 -1.46 0.00 20 12 3 15 224.10 23.70 4.21 34.97 999.00 218.20 21.09 4.77 35.21 213.70 13.13 8.73 36.51 999.00 -0.95 999.00 -0.65 0.00 20 12 3 16 217.80 23.84 4.61 35.85 999.00 212.00 20.64 5.05 36.14 209.50 12.48 10.66 36.76 999.00 -1.01 999.00 -0.68 0.00 20 12 3 17 219.50 26.14 3.42 36.18 999.00 213.90 23.16 4.24 36.52 210.80 13.83 9.21 37.02 999.00 -0.66 999.00 -0.39 0.00 20 12 3 18 218.60 26.32 3.68 36.10 999.00 212.20 22.97 4.43 36.33 207.00 11.99 10.89 36.46 999.00 -0.23 999.00 -0.24 0.00 20 12 3 19 220.50 27.92 4.57 36.78 999.00 214.30 24.56 5.33 37.04 210.80 15.04 9.99 37.22 999.00 -0.55 999.00 -0.25 0.00 20 12 3 20 214.80 25.95 4.49 36.67 999.00 209.40 21.69 4.98 35.63 207.60 11.52 35.77 999.00 -0.75 999.00 -0.43 0.00 20 12 3 22 221.20 26.77 4.22 35.40 999.00 214.30 22.92 5.06 35.52 210.30 12.38 10.13 35.50 999.00 -0.08 999.00 0.00 0.00 0.00 0.00 0.00 0.0	20 12 3 11 212.60	23.87 3.80	31.54 9	999.00 205.40	21.40	4.23	31.71	200.40	12.54	11.79	33.07	999.00	-1.59	999.00	-1.37	0.00
20 12 3 14 218.10 24.93 4.26 34.41 999.00 212.60 22.20 4.79 34.70 211.20 14.36 9.79 36.03 999.00 -1.71 999.00 -1.46 0.00 20 12 3 15 224.10 23.70 4.21 34.97 999.00 218.20 21.09 4.77 35.21 213.70 13.13 8.73 36.51 999.00 -0.95 999.00 -0.65 0.00 20 12 3 16 217.80 23.84 4.61 35.85 999.00 212.00 20.64 5.05 36.14 209.50 12.48 10.66 36.76 999.00 -1.01 999.00 -0.68 0.00 20 12 3 17 219.50 26.14 3.42 36.18 999.00 213.90 23.16 4.24 36.52 210.80 13.83 9.21 37.02 999.00 -0.66 999.00 -0.39 0.00 20 12 3 18 218.60 26.32 3.68 36.10 999.00 212.20 22.97 4.43 36.33 207.00 11.99 10.89 36.46 999.00 -0.23 999.00 -0.04 0.00 20 12 3 19 220.50 27.92 4.57 36.78 999.00 214.30 24.56 5.33 37.04 210.80 15.04 9.99 37.22 999.00 -0.55 999.00 -0.25 0.00 20 12 3 20 214.80 25.95 4.49 36.67 999.00 20.890 22.70 5.61 36.97 207.40 12.86 11.91 37.35 999.00 -0.75 999.00 -0.43 0.00 20 12 3 22 221.20 26.77 4.22 35.40 999.00 214.30 22.92 5.06 35.52 210.30 12.38 10.13 35.50 999.00 -0.08 999.00 0.00 0.00 20 12 3 23 22 221.20 26.77 4.22 35.40 999.00 217.30 25.20 3.82 36.71 214.20 14.46 8.97 36.58 999.00 -0.08 999.00 0.08 0.00	20 12 3 12 221.20	23.33 4.33	32.27 9	999.00 213.70	20.69	4.60	32.45	209.10	12.57	11.33	33.89	999.00	-1.67		-1.58	0.00
20 12 3 15 224.10 23.70 4.21 34.97 999.00 218.20 21.09 4.77 35.21 213.70 13.13 8.73 36.51 999.00 -0.95 999.00 -0.65 0.00 20 12 3 16 217.80 23.84 4.61 35.85 999.00 212.00 20.64 5.05 36.14 209.50 12.48 10.66 36.76 999.00 -1.01 999.00 -0.68 0.00 20 12 3 17 219.50 26.14 3.42 36.18 999.00 213.90 23.16 4.24 36.52 210.80 13.83 9.21 37.02 999.00 -0.66 999.00 -0.39 0.00 20 12 3 18 218.60 26.32 3.68 36.10 999.00 212.20 22.97 4.43 36.33 207.00 11.99 10.89 36.46 999.00 -0.23 999.00 -0.04 0.00 20 12 3 19 220.50 27.92 4.57 36.78 999.00 214.30 24.56 5.33 37.04 210.80 15.04 9.99 37.22 999.00 -0.55 999.00 -0.25 0.00 20 12 3 20 214.80 25.95 4.49 36.67 999.00 208.90 22.70 5.61 36.97 207.40 12.86 11.91 37.35 999.00 -0.75 999.00 -0.43 0.00 20 12 3 21 215.40 25.40 3.81 35.44 999.00 209.40 21.69 4.98 35.63 207.60 11.52 11.52 35.77 999.00 -0.27 999.00 -0.09 0.00 20 12 3 22 221.20 26.77 4.22 35.40 999.00 214.30 22.92 5.06 35.52 210.30 12.38 10.13 35.50 999.00 -0.08 999.00 0.20 0.00 20 12 3 23 223.20 28.77 3.40 36.59 999.00 217.30 25.20 3.82 36.71 214.20 14.46 8.97 36.58 999.00 -0.08 999.00 0.08 0.00	20 12 3 13 218.30	23.44 5.02	34.32 9	999.00 212.70	21.36	5.30	34.52	210.50	14.47	11.31	36.16	999.00	-1.84	999.00	-1.59	0.00
20 12 3 16 217.80 23.84 4.61 35.85 999.00 212.00 20.64 5.05 36.14 209.50 12.48 10.66 36.76 999.00 -1.01 999.00 -0.68 0.00 20 12 3 17 219.50 26.14 3.42 36.18 999.00 213.90 23.16 4.24 36.52 210.80 13.83 9.21 37.02 999.00 -0.66 999.00 -0.39 0.00 20 12 3 18 218.60 26.32 3.68 36.10 999.00 212.20 22.97 4.43 36.33 207.00 11.99 10.89 36.46 999.00 -0.23 999.00 -0.04 0.00 20 12 3 19 220.50 27.92 4.57 36.78 999.00 214.30 24.56 5.33 37.04 210.80 15.04 9.99 37.22 999.00 -0.55 999.00 -0.25 0.00 20 12 3 20 214.80 25.95 4.49 36.67 999.00 208.90 22.70 5.61 36.97 207.40 12.86 11.91 37.35 999.00 -0.75 999.00 -0.43 0.00 20 12 3 21 215.40 25.40 3.81 35.44 999.00 209.40 21.69 4.98 35.63 207.60 11.52 11.52 35.77 999.00 -0.27 999.00 -0.09 0.00 20 12 3 22 221.20 26.77 4.22 35.40 999.00 214.30 22.92 5.06 35.52 210.30 12.38 10.13 35.50 999.00 -0.08 999.00 0.00 0.00 20 12 3 23 223.20 28.77 3.40 36.59 999.00 217.30 25.20 3.82 36.71 214.20 14.46 8.97 36.58 999.00 -0.08 999.00 0.08 0.00	20 12 3 14 218.10	24.93 4.26	34.41 9	999.00 212.60	22.20		34.70	211.20	14.36	9.79	36.03	999.00	-1.71	999.00	-1.46	0.00
20 12 3 17 219.50 26.14 3.42 36.18 999.00 213.90 23.16 4.24 36.52 210.80 13.83 9.21 37.02 999.00 -0.66 999.00 -0.39 0.00 20 12 3 18 218.60 26.32 3.68 36.10 999.00 212.20 22.97 4.43 36.33 207.00 11.99 10.89 36.46 999.00 -0.23 999.00 -0.04 0.00 20 12 3 19 220.50 27.92 4.57 36.78 999.00 214.30 24.56 5.33 37.04 210.80 15.04 9.99 37.22 999.00 -0.55 999.00 -0.25 0.00 20 12 3 20 214.80 25.95 4.49 36.67 999.00 208.90 22.70 5.61 36.97 207.40 12.86 11.91 37.35 999.00 -0.75 999.00 -0.43 0.00 20 12 3 21 215.40 25.40 3.81 35.44 999.00 209.40 21.69 4.98 35.63 207.60 11.52 11.52 35.77 999.00 -0.27 999.00 -0.09 0.00 20 12 3 22 221.20 26.77 4.22 35.40 999.00 214.30 22.92 5.06 35.52 210.30 12.38 10.13 35.50 999.00 -0.08 999.00 0.20 0.00 20 12 3 23 223.20 28.77 3.40 36.59 999.00 217.30 25.20 3.82 36.71 214.20 14.46 8.97 36.58 999.00 -0.08 999.00 0.08 0.00																
20 12 3 18 218.60 26.32 3.68 36.10 999.00 212.20 22.97 4.43 36.33 207.00 11.99 10.89 36.46 999.00 -0.23 999.00 -0.04 0.00 20 12 3 19 220.50 27.92 4.57 36.78 999.00 214.30 24.56 5.33 37.04 210.80 15.04 9.99 37.22 999.00 -0.55 999.00 -0.25 0.00 20 12 3 20 214.80 25.95 4.49 36.67 999.00 208.90 22.70 5.61 36.97 207.40 12.86 11.91 37.35 999.00 -0.75 999.00 -0.43 0.00 20 12 3 21 215.40 25.40 3.81 35.44 999.00 209.40 21.69 4.98 35.63 207.60 11.52 11.52 35.77 999.00 -0.27 999.00 -0.09 0.00 20 12 3 22 221.20 26.77 4.22 35.40 999.00 214.30 22.92 5.06 35.52 210.30 12.38 10.13 35.50 999.00 0.13 999.00 0.20 0.00 20 12 3 23 223.20 28.77 3.40 36.59 999.00 217.30 25.20 3.82 36.71 214.20 14.46 8.97 36.58 999.00 -0.08 999.00 0.08 0.00																
20 12 3 19 220.50 27.92 4.57 36.78 999.00 214.30 24.56 5.33 37.04 210.80 15.04 9.99 37.22 999.00 -0.55 999.00 -0.25 0.00 20 12 3 20 214.80 25.95 4.49 36.67 999.00 208.90 22.70 5.61 36.97 207.40 12.86 11.91 37.35 999.00 -0.75 999.00 -0.43 0.00 20 12 3 21 215.40 25.40 3.81 35.44 999.00 209.40 21.69 4.98 35.63 207.60 11.52 11.52 35.77 999.00 -0.27 999.00 -0.09 0.00 20 12 3 22 221.20 26.77 4.22 35.40 999.00 214.30 22.92 5.06 35.52 210.30 12.38 10.13 35.50 999.00 0.13 999.00 0.20 0.00 20 12 3 23 223.20 28.77 3.40 36.59 999.00 217.30 25.20 3.82 36.71 214.20 14.46 8.97 36.58 999.00 -0.08 999.00 0.08 0.00	20 12 3 17 219.50														-0.39	
20 12 3 20 214.80 25.95 4.49 36.67 999.00 208.90 22.70 5.61 36.97 207.40 12.86 11.91 37.35 999.00 -0.75 999.00 -0.43 0.00 20 12 3 21 215.40 25.40 3.81 35.44 999.00 209.40 21.69 4.98 35.63 207.60 11.52 11.52 35.77 999.00 -0.27 999.00 -0.09 0.00 20 12 3 22 221.20 26.77 4.22 35.40 999.00 214.30 22.92 5.06 35.52 210.30 12.38 10.13 35.50 999.00 0.13 999.00 0.20 0.00 20 12 3 23 223.20 28.77 3.40 36.59 999.00 217.30 25.20 3.82 36.71 214.20 14.46 8.97 36.58 999.00 -0.08 999.00 0.08 0.00																
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20 12 3 22 221.20 26.77 4.22 35.40 999.00 214.30 22.92 5.06 35.52 210.30 12.38 10.13 35.50 999.00 0.13 999.00 0.20 0.00 20 12 3 23 223.20 28.77 3.40 36.59 999.00 217.30 25.20 3.82 36.71 214.20 14.46 8.97 36.58 999.00 -0.08 999.00 0.08 0.00																
20 12 3 23 223.20 28.77 3.40 36.59 999.00 217.30 25.20 3.82 36.71 214.20 14.46 8.97 36.58 999.00 -0.08 999.00 0.08 0.00																
20 12 3 24 227.60 26.23 3.97 37.15 999.00 221.80 22.77 4.38 37.33 217.90 13.85 8.11 37.27 999.00 -0.20 999.00 0.00 0.00																
	20 12 3 24 227.60	26.23 3.97	37.15 9	999.00 221.80	22.77	4.38	37.33	217.90	13.85	8.11	37.27	999.00	-0.20	999.00	0.00	0.00

20 12 4 1 227.20		3.53 37.48	999.00 221.40	21.78	4.05	37.78 214.90	13.75	8.23		999.00	-0.64 999.00	-0.30	0.00
20 12 4 2 230.10	25.33 3	37.67	999.00 224.00	22.47	4.29	37.99 220.30	13.79	8.30	38.26	999.00	-0.69 999.00	-0.38	0.00
20 12 4 3 234.60	24.88 4	1.54 37.87	999.00 228.90	22.56	4.92	38.20 221.60	14.28	7.52	38.43	999.00	-0.37 999.00	-0.03	0.00
20 12 4 4 233.60	24.88 4	1.28 37.69	999.00 228.50	22.44	4.98	38.07 223.80	15.04	8.14	38.22	999.00	-0.55 999.00	-0.18	0.00
20 12 4 5 236.30	24.35 3	3.88 37.29	999.00 230.40	21.94	4.36	37.65 224.90	13.90	7.85	37.91	999.00	-0.52 999.00	-0.17	0.00
20 12 4 6 228.90	23.11 3	36.55	999.00 221.90	20.68	4.13	36.86 215.10	12.14	8.99	37.04	999.00	-0.36 999.00	-0.09	0.00
20 12 4 7 223.60	25.08 3	3.45 36.10	999.00 217.10	22.06	3.91	36.38 213.70	12.94	8.80	36.50	999.00	-0.37 999.00	-0.10	0.00
20 12 4 8 224.80		3.92 36.31	999.00 218.90	20.74	4.69	36.57 216.20	12.15	9.36	36.72	999.00	-0.37 999.00	-0.11	0.00
20 12 4 9 219.70		36.88	999.00 213.00	23.97	4.56	37.16 208.60	13.63	10.58	37.52	999.00	-0.87 999.00	-0.61	0.00
20 12 4 10 227.00		1.27 37.22	999.00 220.60	21.85	4.70	37.52 216.70	14.28	9.18	38.38	999.00	-1.29 999.00	-0.98	0.00
20 12 4 11 221.80		1.11 37.79	999.00 215.10	21.06	4.99	38.06 211.20	12.66	10.51	39.41	999.00	-1.56 999.00	-1.26	0.00
20 12 4 12 225.00		1.76 38.60	999.00 218.80	23.08	5.18	38.93 213.90	15.41	9.78	39.99	999.00	-1.48 999.00	-1.17	0.00
20 12 4 12 223.00		1.71 40.74	999.00 211.30	21.12	5.02	41.01 207.20	13.19	11.02	42.61	999.00	-2.00 999.00	-1.74	0.00
20 12 4 13 217.80		1.83 42.37	999.00 229.10	21.12	5.11	42.71 225.50	15.65	8.54	44.05	999.00	-1.35 999.00	-1.01	0.00
20 12 4 15 243.30		43.86	999.00 238.90	20.35	4.38	44.27 233.70	14.37	9.78	45.28	999.00	-1.50 999.00	-1.06	0.00
20 12 4 16 253.60		1.58 44.62	999.00 248.30	14.55	5.55	45.06 239.60	8.37	10.32	45.85	999.00	-0.97 999.00	-0.52	0.00
20 12 4 17 263.90		1.38 44.67	999.00 258.00	10.61	4.68	45.07 252.90	5.38	10.10	45.35	999.00	-0.76 999.00	-0.38	0.00
20 12 4 18 284.50		1.30 44.46	999.00 279.30	8.81	4.09	44.72 261.30	3.87	6.66	44.43	999.00	0.27 999.00	0.52	0.00
20 12 4 19 282.00		2.47 44.17	999.00 275.60	8.61	2.04	44.36 263.60	3.63	5.19	43.72	999.00	0.39 999.00	0.62	0.00
20 12 4 20 346.20		3.42 43.18	999.00 339.70	13.55	6.65	43.51 325.70	7.48	9.00	43.16	999.00	-0.70 999.00	-0.27	0.00
20 12 4 21 348.20		39 40.86	999.00 342.20	15.77	1.48	41.22 331.20	8.13	7.28	41.21	999.00	-0.26 999.00	0.06	0.00
20 12 4 22 347.70	15.53 1	62 40.86	999.00 338.20	14.07	2.02	41.22 326.70	7.17	6.92	41.21	999.00	-0.19 999.00	-0.10	0.00
20 12 4 23 354.10		2.96 39.78	999.00 346.50	11.04	4.51	39.87 334.30	5.33	10.20	40.07	999.00	-0.45 999.00	-0.32	0.00
20 12 4 24 319.00	8.87 4	1.29 39.32	999.00 303.50	7.60	8.48	39.50 297.00	2.17	31.00	39.69	999.00	-0.66 999.00	-0.48	0.00
20 12 5 1 335.10	13.50 3	38.99	999.00 327.40	12.90	3.59	39.31 310.10	7.40	7.96	39.15	999.00	-0.61 999.00	-0.17	0.00
20 12 5 2 352.10	16.11 3	38.53	999.00 346.90	15.53	3.17	38.99 340.10	9.59	8.04	39.53	999.00	-1.25 999.00	-0.75	0.00
20 12 5 3 5.64	14.98 11	29 37.91	999.00 0.69	13.38	10.78	38.40 1.99	10.59	11.01	39.30	999.00	-1.48 999.00	-0.97	0.00
20 12 5 4 354.70	17.72 5	5.11 37.91	999.00 350.30	16.48	6.15	38.40 348.50	11.77	9.05	39.30	999.00	-1.35 999.00	-0.82	0.00
20 12 5 5 342.20	19.67 2	2.82 36.38	999.00 336.60	18.67	4.28	36.86 332.90	12.00	7.58	37.54	999.00	-1.28 999.00	-0.79	0.00
20 12 5 6 341.90	17.87 2	2.65 35.43	999.00 336.80	17.35	3.93	35.96 330.80	10.87	8.03	36.76	999.00	-1.16 999.00	-0.65	0.00
20 12 5 7 352.50		1.25 34.69	999.00 347.90	13.32	3.78	35.26 341.90	9.65	7.64	35.98	999.00	-1.28 999.00	-0.70	0.00
20 12 5 8 331.70		3.13 34.30	999.00 327.10	14.88	3.56	34.85 323.10	9.85	7.24	35.59	999.00	-1.30 999.00	-0.78	0.00
20 12 5 9 347.40		5.62 33.39	999.00 342.90	14.58	6.24	33.93 337.90	10.27	10.08	35.00	999.00	-1.68 999.00	-1.13	0.00
20 12 5 10 342.60		1.61 33.39	999.00 337.10	16.73	5.63	33.93 334.30	12.83	8.46	35.00	999.00	-1.91 999.00	-1.36	0.00
20 12 5 11 347.60		3.90 32.18	999.00 343.30	16.81	4.26	32.74 340.80	13.49	7.57	34.05	999.00	-1.80 999.00	-1.25	0.00
20 12 5 12 343.30		1.59 32.25	999.00 338.40	15.31	5.34	32.80 338.10	12.17	8.12	34.06	999.00	-1.84 999.00	-1.29	0.00
20 12 5 13 333.00		5.16 32.36	999.00 328.20	11.92	5.76	32.93 328.80	9.74	8.52	34.35	999.00	-2.08 999.00	-1.50	0.00
20 12 5 14 321.80		5.65 32.58	999.00 316.00	10.72	6.67	33.16 307.30	8.57	9.38	34.69	999.00	-2.21 999.00	-1.65	0.00
20 12 5 15 333.00		7.31 33.08	999.00 329.10	10.72	8.36	33.65 328.70	8.23	12.23	35.14	999.00	-2.04 999.00	-1.48	0.00
20 12 5 16 313.00		7.04 33.45	999.00 306.40	9.47	7.79	34.02 300.30	7.09	15.04	35.53	999.00	-2.01 999.00	-1.47	0.00
20 12 5 17 313.10		52 33.83	999.00 307.10	8.15	10.85	34.39 302.00	5.40	11.33	35.58	999.00	-1.65 999.00	-1.47	0.00
20 12 5 17 313.10													
		5.99 33.98	999.00 332.40	8.61	6.78	34.52 321.80	5.68	10.26	35.51	999.00	-1.46 999.00	-0.95	0.00
20 12 5 19 354.10		33.77		14.57	4.66	34.32 347.10	11.04	7.33		999.00	-1.71 999.00	-1.15	0.00
20 12 5 20 351.80			999.00 348.10		4.47	33.49 345.40	11.32		34.64		-1.72 999.00	-1.16	0.00
20 12 5 21 351.30			999.00 347.00	13.75	5.22	32.89 344.20	10.82	9.29		999.00	-1.71 999.00	-1.15	0.00
20 12 5 22 1.56			999.00 356.30	11.33	9.96	32.27 349.50	9.76	9.95		999.00	-1.72 999.00	-1.17	0.00
20 12 5 23 10.58			999.00 8.25	5.88	13.57	32.27 2.57	6.03	16.51		999.00	-1.75 999.00	-1.21	0.00
20 12 5 24 350.60			999.00 345.10	8.96	9.85	31.45 345.60	7.41	11.50		999.00	-1.75 999.00	-1.20	0.00
20 12 6 1 333.60			999.00 328.10	6.03	15.26	31.05 323.70	4.76	18.87		999.00	-1.62 999.00	-1.10	0.00
20 12 6 2 308.20			999.00 301.60	5.24	14.82	30.83 290.40	4.20	25.07		999.00	-1.44 999.00	-0.93	0.00
20 12 6 3 2.07	6.97 14		999.00 358.70	6.50	15.69	30.70 356.20	5.30	14.19	31.64	999.00	-1.67 999.00	-1.14	0.00
20 12 6 4 333.60	6.96 20	30.08	999.00 328.50	6.88	23.48	30.61 322.60	4.93	25.40	31.68	999.00	-1.60 999.00	-1.05	0.00

20 12 6 5 344.6	0 7.81	10.15	30.13	999.00	338.20	7.41	11.78	30 65	326.00	5.57	17.71	31.67	999.00	-1 61	999.00	-1.08	0.00
20 12 6 6 0.7		11.28	29.84	999.00	354.90	9.96	11.34		346.40	9.74	9.71	31.58	999.00	-1.78	999.00	-1.24	0.00
20 12 6 7 355.6		11.83	29.37	999.00	350.30	8.27	11.37		347.40	6.50	13.72	31.15	999.00	-1.80	999.00	-1.25	0.00
20 12 6 8 322.7		8.62	28.87	999.00	314.80	6.76	10.00		305.50	4.07	17.49	30.57	999.00	-1.63	999.00	-1.11	0.00
20 12 6 9 295.10		21.08	28.84	999.00	282.00	4.04	19.41		244.20	2.73	17.76	30.37	999.00	-1.53	999.00	-1.03	0.00
20 12 6 10 347.8		18.33	28.84	999.00	342.40	5.01	18.68		343.40	4.39	26.73	30.37	999.00	-1.74	999.00	-1.20	0.00
20 12 6 11 357.4		14.40	29.89	999.00	349.90	5.59	14.29		343.00	5.72	16.40	31.76	999.00	-1.80	999.00	-1.26	0.00
20 12 6 12 338.4		10.57	30.11	999.00	332.40	6.07	12.86		327.10	5.13	15.96	31.97	999.00	-1.88	999.00	-1.35	0.00
20 12 6 13 315.4		15.14	30.28	999.00	306.10	4.23	17.84		309.60	3.42	28.17	32.31	999.00	-2.13	999.00	-1.56	0.00
20 12 6 14 333.3		16.15	30.61	999.00	322.90	5.15	13.47		316.70	4.35	14.86	32.47	999.00	-2.00	999.00	-1.49	0.00
20 12 6 15 313.7		8.03	30.26	999.00	310.00	6.60	10.43		311.90	5.38	13.66	32.24	999.00	-2.00	999.00	-1.44	0.00
20 12 6 16 320.8		9.53	30.20	999.00	317.50	6.53	9.24		315.50	4.88	13.78	32.06	999.00	-1.82	999.00	-1.27	0.00
20 12 6 17 324.9		4.91	30.21	999.00	319.70	9.72	5.86		317.70	6.95	10.97	31.96	999.00	-1.70	999.00	-1.17	0.00
20 12 6 18 313.8		10.38	30.25	999.00	306.70	5.02	11.78	30.78	307.50	3.65	10.51	31.86	999.00	-1.59	999.00	-1.08	0.00
20 12 6 19 259.20		8.47	30.03	999.00	253.80	6.43	7.30	30.52	239.30	4.24	9.24	31.51	999.00	-1.41	999.00	-0.93	0.00
20 12 6 20 254.8		7.37	29.84	999.00	251.90	4.47	7.09		254.60	3.13	11.00	31.28	999.00	-1.40	999.00	-0.89	0.00
20 12 6 21 299.1		5.23	29.87	999.00	291.10	8.12	5.28		284.90	5.68	10.01	31.08	999.00	-1.09	999.00	-0.63	0.00
20 12 6 22 313.2		10.82	29.94	999.00	302.70	3.55	15.58		215.40	1.33	53.11	31.11		-1.12	999.00	-0.75	0.00
20 12 6 23 335.6		16.35	29.94	999.00	330.10	7.44	15.56		329.50	5.08	18.17	31.11	999.00	-1.60	999.00	-1.07	0.00
20 12 6 24 328.4		20.74	30.41	999.00	324.20	4.61	22.75		339.00	2.30	28.18	31.97	999.00	-1.53	999.00	-1.05	0.00
20 12 7 1 264.6	0 6.01	15.89	30.14	999.00	250.50	5.72	15.73		229.90	4.34	14.45	31.67	999.00	-1.57	999.00	-1.05	0.00
20 12 7 2 286.1		5.63	29.48	999.00	276.60	9.76	6.63		256.70	5.58	13.07	31.01	999.00	-1.48	999.00	-0.95	0.00
20 12 7 3 311.1	0 9.80	7.19	29.73	999.00	303.80	8.98	10.68	30.21	285.60	4.59	27.61	31.11	999.00	-1.40	999.00	-0.90	0.00
20 12 7 4 326.1	0 14.31	4.10	29.80	999.00	320.60	13.75	4.30	30.33	313.60	9.86	8.61	31.38	999.00	-1.58	999.00	-1.04	0.00
20 12 7 5 331.3	0 11.79	5.08	29.95	999.00	325.40	11.33	5.55	30.47	321.10	7.28	10.48	31.50	999.00	-1.53	999.00	-1.01	0.00
20 12 7 6 342.0	0 14.27	11.25	30.30	999.00	337.40	13.71	11.95	30.83	332.10	10.12	12.98	31.89	999.00	-1.63	999.00	-1.10	0.00
20 12 7 7 351.2	0 15.11	5.66	30.72	999.00	346.40	14.66	6.67	31.26	341.30	11.57	8.48	32.39	999.00	-1.69	999.00	-1.15	0.00
20 12 7 8 8.7	5 12.53	12.93	31.06	999.00	2.63	11.70	12.61	31.60	0.82	10.85	11.82	32.81	999.00	-1.75	999.00	-1.23	0.00
20 12 7 9 2.03	3 14.91	9.62	31.05	999.00	357.10	13.98	8.60	31.60	355.60	12.27	8.32	32.82	999.00	-1.79	999.00	-1.23	0.00
20 12 7 10 5.9	6 14.67	11.40	30.82	999.00	2.56	13.37	11.39	31.37	3.05	11.73	11.56	32.63	999.00	-1.83	999.00	-1.27	0.00
20 12 7 11 355.5	0 16.26	7.13	30.85	999.00	350.60	15.92	5.87	31.39	348.20	13.21	7.73	32.67	999.00	-1.82	999.00	-1.28	0.00
20 12 7 12 343.6	0 13.73	7.52	30.66	999.00	339.00	13.46	7.94	31.21	336.60	11.38	9.40	32.54	999.00	-1.88	999.00	-1.33	0.00
20 12 7 13 335.0		5.54	30.57	999.00	330.10	14.17	6.82	31.15	328.00	10.88	9.22	32.58	999.00	-2.05	999.00	-1.49	0.00
20 12 7 14 327.1		5.58	31.01	999.00	322.40	13.82	5.71	31.60	320.10	10.44	10.46	33.08	999.00	-2.00	999.00	-1.42	0.00
20 12 7 15 323.0		3.81	31.01	999.00	317.80	12.82	4.48	31.60	313.70	9.58	9.73	33.08	999.00	-1.91	999.00	-1.35	0.00
20 12 7 16 319.6		6.11	32.38	999.00	314.10	13.67	6.64		310.60	10.10	10.50	34.19	999.00	-1.74	999.00	-1.19	0.00
20 12 7 17 317.4		6.15	33.07	999.00	310.70	14.70	6.30	33.61	302.90	10.35	9.74	34.65	999.00	-1.47	999.00	-0.94	0.00
20 12 7 18 318.3		3.54	33.32	999.00	312.90	18.12	4.60	33.83	306.90	11.83	10.08	34.72	999.00	-1.40	999.00	-0.88	0.00
20 12 7 19 315.9		5.04	32.90	999.00	309.70	18.51	5.11	33.42	305.40	12.13	9.21	34.28	999.00	-1.34	999.00	-0.81	0.00
20 12 7 20 321.0		3.44	32.53	999.00	314.90	19.88	4.58	33.07	309.20	12.79	9.71	33.93	999.00	-1.37	999.00	-0.83	0.00
20 12 7 21 320.6		4.98	32.25	999.00	315.70	16.37	6.05	32.78	309.70	11.02	10.64	33.66	999.00	-1.40	999.00	-0.88	0.00
20 12 7 22 328.7		8.61	31.81	999.00	323.10	16.08	9.66	32.33	318.60	11.42	14.42	33.18	999.00	-1.43	999.00	-0.90	0.00
20 12 7 23 329.50		5.12	31.38	999.00		12.54	5.15	31.90	316.70	7.87	8.35		999.00	-0.88	999.00	-0.38	0.00
20 12 7 24 326.70		5.84		999.00		11.91	6.84		311.70		11.76		999.00		999.00	-0.49	0.00
20 12 8 1 316.6		3.65		999.00		14.00	4.52		302.50	8.59	8.42		999.00		999.00	-0.33	0.00
20 12 8 2 302.3		2.37		999.00		13.18	2.69		263.70	6.75	6.08		999.00		999.00	1.71	0.00
20 12 8 3 303.0		1.63		999.00		12.39	1.61		258.80	5.45	6.59		999.00		999.00	2.21	0.00
20 12 8 4 287.10		1.23		999.00		14.23	1.12		245.60	6.38	7.06		999.00		999.00	1.15	0.00
20 12 8 5 300.9		1.49		999.00		12.30	3.13		258.10	5.35	9.51		999.00		999.00	0.39	0.00
20 12 8 6 307.3		3.39		999.00		11.24	3.85		251.90	5.64	8.94		999.00		999.00	0.69	0.00
20 12 8 7 311.3		5.53		999.00		11.61	6.11		250.30	4.78	7.94		999.00		999.00	1.88	0.00
20 12 8 8 293.4	0 10.51	11.32	30.IU	999.00	272.90	10.26	10.99	∠9./4	242.50	5.93	8.04	28.12	999.00	0.56	999.00	0.09	0.00

20 12 8 9 286.00	14.65	4.33	29.29	999.00	267.80	12.35	4.09	28.94	253.60	6.40	9.77	29.08	999.00	0.08	999.00	-0.42	0.00
20 12 8 10 282.30	9.98	8.94	30.17	999.00	265.80	8.45	8.63	29.96	240.60	5.37	11.09	30.71	999.00	-0.73	999.00	-0.84	0.00
20 12 8 11 259.60	8.99	8.87	31.09	999.00	246.50	8.69	8.45	31.43	229.70	7.19	13.32	33.18	999.00	-2.06	999.00	-1.66	0.00
20 12 8 12 273.10	8.23	8.55	31.65	999.00	264.10	8.11	9.58	32.19	261.40	6.58	13.27	33.99	999.00	-2.34	999.00	-1.76	0.00
20 12 8 13 223.90	10.15	5.66	32.46	999.00	218.00	9.96	7.00	33.00	216.90	8.53	9.61	34.67	999.00		999.00	-1.65	0.00
20 12 8 14 231.70	12.61	4.28	32.49	999.00	227.10	12.49	4.26	33.02		9.98	9.36	34.63	999.00	-2.06	999.00	-1.54	0.00
20 12 8 15 229.50	15.52	4.92	32.49	999.00	223.60	15.20	5.57	33.02	218.40	11.01	9.15	34.63	999.00	-1.84		-1.29	0.00
20 12 8 16 234.80	16.96	5.42	33.36	999.00	229.20	16.14	5.86	33.89	224.20	11.59	9.72	35.06	999.00		999.00	-1.11	0.00
20 12 8 17 233.90	19.15	4.61	33.46	999.00	228.80	17.73	4.94	33.96	223.70	11.82	9.48	34.99	999.00		999.00	-0.98	0.00
20 12 8 18 227.00	21.76	5.01	33.28	999.00	221.00	19.96	5.33	33.79	216.50	13.85	10.21	34.73	999.00		999.00	-0.94	0.00
20 12 8 19 210.90	22.02	4.75	32.82	999.00	205.70	19.81	5.39	33.30	204.40	11.92	10.99	34.16	999.00	-1.34		-0.87	0.00
20 12 8 20 220.70	20.26	5.08	32.90	999.00	215.60	17.97	5.20	33.37	212.50	11.69	11.10	34.25	999.00	-1.37	999.00	-0.89	0.00
20 12 8 21 218.70	23.77	4.88	33.22	999.00	213.70	21.18	5.73	33.69	210.40	12.87	10.98	34.54	999.00	-1.28	999.00	-0.82	0.00
20 12 8 22 223.40	25.09	5.16	33.45	999.00	217.50	22.98	5.21	33.93	214.00	15.18	9.70	34.80	999.00	-1.37	999.00	-0.88	0.00
20 12 8 23 216.10 20 12 8 24 214.10	23.35 24.49	4.61 5.11	33.25 33.09	999.00 999.00	210.00 208.40	21.09 21.95	5.09 5.26	33.74 33.55	207.60 206.00	12.54 12.94	12.03 11.18	34.61 34.37	999.00 999.00	-1.31	999.00 999.00	-0.82 -0.80	0.00
20 12 8 24 214.10	26.86	6.06	33.09	999.00	213.30	24.20	6.44	33.55	200.00	15.57	11.10	34.37	999.00	-1.24	999.00	-0.88	0.00
20 12 9 1 219.00	29.23	4.54	33.19	999.00	231.50	27.48	4.81	33.72	209.70	19.61	8.43	34.68	999.00		999.00	-0.96	0.00
20 12 9 3 235.20	29.53	4.87	32.96	999.00	230.20	27.40	5.54	33.50	226.00	19.92	8.72	34.48	999.00	-1.53	999.00	-1.00	0.00
20 12 9 4 242.50	22.17	7.35	32.95	999.00	236.30	20.99	6.69	33.48	232.60	14.85	10.85	34.48	999.00	-1.54		-1.01	0.00
20 12 9 5 239.00	22.36	4.92	32.95	999.00	233.90	20.99	5.34	33.48	228.60	14.34	9.46	34.48	999.00		999.00	-0.92	0.00
20 12 9 6 228.20	22.24	4.86	33.44	999.00	222.00	20.60	5.47	33.94	218.50	14.42	9.38	34.92	999.00		999.00	-0.95	0.00
20 12 9 7 236.10	22.30	4.55	33.44	999.00	231.00	20.92	5.23	33.94	228.00	14.52	8.36	34.92	999.00		999.00	-0.95	0.00
20 12 9 8 235.20	23.54	4.31	33.76	999.00	230.30	22.00	4.93	34.27	225.10	15.49	7.85	35.24	999.00	-1.50	999.00	-0.98	0.00
20 12 9 9 237.90	23.09	4.32	33.53	999.00	232.80	21.64	4.86	34.06	226.60	16.12	8.08	35.08	999.00		999.00	-1.03	0.00
20 12 9 10 244.40	19.69	6.25	33.60	999.00	239.50	18.48	6.20	34.13	234.90	12.37	10.08	35.28	999.00	-1.75	999.00	-1.21	0.00
20 12 9 11 254.20	15.95	7.15	34.06	999.00	248.30	15.41	7.13	34.61	240.80	10.84	10.49	35.97	999.00	-1.99	999.00	-1.43	0.00
20 12 9 12 266.00	13.60	6.72	34.98	999.00	261.70	12.94	6.40	35.53	255.70	9.97	11.44	37.03	999.00	-2.01	999.00	-1.47	0.00
20 12 9 13 256.00	12.80	9.22	36.00	999.00	250.20	12.34	9.21	36.55	238.20	9.40	12.66	38.34	999.00	-2.35	999.00	-1.83	0.00
20 12 9 14 252.30	12.54	7.95	37.53	999.00	247.60	11.90	8.50	37.99	241.80	9.36	13.87	40.18	999.00	-2.58	999.00	-2.15	0.00
20 12 9 15 266.60	10.46	12.72	39.13	999.00	259.70	9.90	11.84	39.55	249.70	7.57	15.51	41.61	999.00	-2.52	999.00	-2.07	0.00
20 12 9 16 312.70	6.49	7.22	39.13	999.00	319.70	6.66	6.12	39.55	331.50	5.27	6.95	41.61	999.00	-1.37	999.00	-0.97	0.00
20 12 9 17 305.80	6.58	4.93	40.90	999.00	306.70	6.22	7.23		320.10	3.49	9.35	41.65	999.00	-0.36	999.00	0.05	0.00
20 12 9 18 311.50	5.93	1.34	41.61	999.00	311.80	5.20	3.14		103.50	1.81	54.43	41.49	999.00	1.34	999.00	1.55	0.00
20 12 9 19 80.40	1.96	6.50	40.87	999.00	67.41	2.64	6.42		124.40	3.01	8.86	38.71	999.00	2.49	999.00	2.74	0.00
20 12 9 20 139.90	3.39	3.60	41.03		123.70	4.93	1.97		141.30	2.76	6.17	38.54	999.00	2.74	999.00	2.49	0.00
20 12 9 21 137.30	2.92	9.09	41.10		144.30	6.33	9.00		159.90	2.78	8.74	36.21	999.00	5.47	999.00	4.28	0.00
20 12 9 22 169.50	4.76	1.80	40.04		168.80	7.02	1.68		269.20	1.36	35.95	34.91	999.00	5.56	999.00	5.13	0.00
20 12 9 23 185.40	2.09	6.53	40.22		174.90	4.76	1.74		189.90	2.16	5.41	34.70	999.00	5.66	999.00	5.07	0.00
20 12 9 24 248.90	2.45	38.17	40.88	999.00	213.20	3.47	13.76	40.55	206.60	3.36	31.78	34.86	999.00	5.89	999.00	5.70	0.00
20 12 10 1 203.60 20 12 10 2 247.10	3.36	7.70	40.74		186.20	5.51	2.43		188.10	4.32	9.87	35.42	999.00	4.80	999.00	4.44	0.00
20 12 10 2 247.10 20 12 10 3 325.90	5.89 7.85	13.73 2.61	40.20 38.81	999.00 999.00	221.60	6.69 7.71	11.61 3.48	40.08	207.10 205.20	2.93 3.07	12.14 22.53	34.63 34.08	999.00 999.00	5.48 3.43	999.00 999.00	5.47 3.60	0.00
20 12 10 3 323.90		47.08		999.00		2.30			188.60	3.38	7.03		999.00		999.00	6.02	0.00
20 12 10 4 36.09	3.88	4.31		999.00		2.82	9.31		204.20	1.65	21.07		999.00		999.00	6.32	0.00
20 12 10 5 166.20	2.22	28.28		999.00		1.32	16.19		173.80	1.12	8.75		999.00		999.00	6.33	0.00
20 12 10 0 147.70	5.79	5.77		999.00		3.99	9.01		175.60	4.24	6.36		999.00		999.00	6.51	0.00
20 12 10 7 104.30	10.69	2.13		999.00		8.37	2.53		170.30	3.62	4.07		999.00			7.92	0.00
20 12 10 9 167.90	12.50	2.30		999.00		9.01	3.96		225.70	2.12	19.55		999.00	999.00		7.84	0.00
20 12 10 10 185.80	13.59	1.46		999.00		11.50	2.36		173.50	2.10	16.21		999.00		999.00	6.81	0.00
20 12 10 11 191.60	7.81	4.74		999.00			13.42		205.90	3.00	23.44		999.00		999.00	0.14	0.00
20 12 10 12 158.20	5.44	7.57		999.00					153.60				999.00		999.00	-0.97	0.00

20 12 10 13		6.33	5.28		999.00		5.50	11.83	38.25	93.90	5.28	22.77		999.00		999.00	-0.96	0.00
20 12 10 14	166.30	8.07	6.65	38.58	999.00	151.40	6.54	9.17	38.25	108.10	4.39	15.00	38.83	999.00	-0.47	999.00	-0.25	0.00
20 12 10 15	174.10	8.01	9.34	45.00	999.00	165.70	7.14	11.12	45.62	86.80	3.47	21.89	45.18	999.00	1.28	999.00	1.80	0.00
20 12 10 16	151.90	7.67	5.70	46.83	999.00	141.30	7.14	6.46	47.45	75.80	4.59	11.00	45.40	999.00	2.26	999.00	2.88	0.00
20 12 10 17	155.10	9.28	2.13	47.72	999.00	139.20	8.61	2.76	47.93	81.90	5.26	5.84	42.77	999.00	6.85	999.00	6.89	0.00
20 12 10 18	163.50	14.84	2.31	48.35	999.00	154.60	13.30	2.99	48.25	103.30	3.81	7.85	40.35	999.00	999.00	999.00	7.97	0.00
20 12 10 19		16.37	2.09	48.27	999.00		13.62	3.30		127.20	3.88	14.52	41.36	999.00	5.99	999.00	5.96	0.00
20 12 10 20		15.02	1.91	47.92	999.00		13.33	1.65		152.40	2.90	6.20	43.61	999.00	3.65	999.00	3.29	0.00
20 12 10 21		21.66	1.20	47.52	999.00		17.52	1.78		158.20	4.84	10.89	43.10		4.46	999.00	3.02	0.00
20 12 10 21		22.44	1.07	46.39	999.00		17.57	1.37		160.90	4.96	8.85	42.27			999.00	2.83	0.00
20 12 10 22		22.10	1.90	44.98		177.40	16.83	3.05		171.20	4.73	9.08	41.42	999.00	2.96	999.00	1.99	0.00
20 12 10 23		21.35		44.50	999.00	188.70		2.76		190.30	4.26	11.05	41.26	999.00	2.97	999.00	2.32	0.00
			1.92				16.67			188.50								
20 12 11 1		23.77	1.66	44.17	999.00		18.84	2.41			6.26	11.31	41.15	999.00	2.90	999.00	2.07	0.00
20 12 11 2		21.50	1.76	44.22	999.00	192.60	17.22	2.23		193.40	4.80	11.33	41.69	999.00	2.30	999.00	1.82	0.00
20 12 11 3		22.74	1.94	44.20	999.00		18.16	2.33		188.20	5.96	12.57	41.80	999.00	2.37	999.00	1.49	0.00
20 12 11 4		22.61	1.36	44.31	999.00		17.99	1.57		194.30	6.57	12.03	41.52	999.00	3.22	999.00	1.85	0.00
20 12 11 5		22.67	1.72	44.44	999.00	199.50	16.79	2.66		193.50	4.95	8.31	40.96			999.00	2.43	0.00
20 12 11 6		22.60	1.90	44.87	999.00	197.10	18.26	1.47		188.80	6.39	9.92	40.75	999.00	4.27	999.00	2.08	0.00
20 12 11 7		22.19	2.35	45.40	999.00	195.90	18.48	1.80		188.90	6.72	10.04	40.34	999.00	4.83	999.00	2.48	0.00
20 12 11 8	199.90	22.50	1.56	43.93	999.00	192.20	17.46	2.33	42.30	188.80	6.41	10.89	40.57	999.00	2.58	999.00	1.53	0.00
20 12 11 9	203.10	20.82	1.79	43.24	999.00	196.20	16.17	2.38	42.36	192.90	5.31	10.81	40.86	999.00	2.27	999.00	1.54	0.00
20 12 11 10	211.20	17.73	2.60	43.25	999.00	204.50	14.77	3.23	42.65	204.60	8.50	9.61	42.66	999.00	-0.53	999.00	-0.73	0.00
20 12 11 11	223.20	13.95	4.85	44.88	999.00	216.60	12.56	5.07	45.08	212.50	8.36	11.26	46.43	999.00	-1.77	999.00	-1.47	0.00
20 12 11 12	230.40	12.42	4.56	47.75	999.00	224.80	12.23	4.56	48.12	224.60	8.59	10.66	49.88	999.00	-2.17	999.00	-1.77	0.00
20 12 11 13	244.60	9.04	5.52	50.01	999.00	240.00	9.13	5.14	50.42	233.10	7.44	11.92	52.46	999.00	-2.38	999.00	-1.98	0.00
20 12 11 14	248.50	2.62	16.84	50.85	999.00	346.00	3.35	9.51	50.87	353.40	6.38	6.75	50.62	999.00	3.30	999.00	2.57	0.00
20 12 11 15	21.46	8.21	4.67	49.53	999.00	19.15	7.36	6.06	47.87	39.87	4.63	13.45	45.74		2.80	999.00	2.10	0.00
20 12 11 16	33.78	7.18	2.78	47.32	999.00	31.35	8.43	5.11	46.20	33.74	6.04	12.47	44.43	999.00	3.04	999.00	1.39	0.00
20 12 11 17	41.91	13.25	6.85	47.38	999.00	38.71	15.70	5.19	46.41	34.66	8.68	11.14	43.75	999.00	4.27	999.00	2.57	0.00
20 12 11 17	47.87	22.65	1.80	45.94	999.00	39.87	24.52	3.17	44.92	36.37	12.28	9.38	43.09	999.00	2.85	999.00	2.19	0.00
20 12 11 19	54.92	26.41	1.99	46.12	999.00	51.40	20.84	1.94	44.62	57.71	8.22	10.72	42.21	999.00	3.34	999.00	1.19	0.00
20 12 11 19	61.42	23.90	2.52	41.55	999.00	55.88	21.05	3.07	41.47	58.09	10.56	10.72	41.53	999.00	-0.65	999.00	-0.47	0.00
20 12 11 20	64.05	19.95	0.98	40.60	999.00	56.58	17.37	1.63	40.63	52.61	8.39	10.24	40.88	999.00	-0.28	999.00	-0.15	0.00
20 12 11 21							16.78					10.22	40.54	999.00	-0.23	999.00		0.00
	62.53	19.59	2.00	40.37	999.00	52.71		2.81	40.35	46.81	7.62						-0.17	
20 12 11 23	67.76	21.38	2.60	40.34	999.00	56.16	17.99	4.19	40.17	52.47	8.56	11.34	40.17	999.00	0.28	999.00	-0.09	0.00
20 12 11 24	76.30	20.02	0.88	41.30	999.00	65.57	17.79	1.81	40.94	58.33	7.63	9.49	40.47	999.00	0.98	999.00	0.70	0.00
20 12 12 1	85.90	15.32	3.69	41.60	999.00	78.50	11.88	4.67	41.12	83.00	3.39	18.47	40.69	999.00	0.86	999.00	0.75	0.00
20 12 12 2		13.83	4.55	42.83	999.00	92.50	13.69	2.37	41.65	81.20	6.19	12.31	40.91	999.00	2.81	999.00	1.06	0.00
20 12 12 3		11.26	3.18	45.32	999.00	138.70	7.86	3.72	43.11	36.14	2.08	12.57	40.61	999.00	5.47	999.00	3.47	0.00
20 12 12 4		19.33	2.26	48.20	999.00	157.30	14.26	1.58		122.30	2.49	31.46	40.60	999.00		999.00	7.40	0.00
20 12 12 5		16.00	2.55	50.68	999.00	167.30	13.76	2.65	50.47	121.30	1.81	14.09	42.60	999.00	7.89	999.00	7.75	0.00
20 12 12 6	173.50	17.84	2.96	51.49	999.00	161.20	14.87	3.08	51.26	118.10	4.72	8.23	45.76	999.00	4.03	999.00	3.82	0.00
20 12 12 7	161.60	21.22	3.36	49.23	999.00	151.90	18.23	4.18	49.43	140.00	7.72	12.30	46.39	999.00	1.87	999.00	2.18	0.01
20 12 12 8	154.40	23.82	3.80	48.34	999.00	145.80	20.32	5.10	48.69	141.50	8.91	12.98	47.23	999.00	0.43	999.00	1.03	0.01
20 12 12 9		26.37	4.28		999.00		23.37	5.52		151.70	10.39	14.48		999.00		999.00	-0.17	0.04
20 12 12 10		28.53	4.33		999.00		25.38	5.50		168.20	11.89	13.53	49.13	999.00		999.00	0.02	0.00
20 12 12 11		32.28	5.12	49.21	999.00		29.09	5.97		176.60	16.50	12.73		999.00		999.00	-0.64	0.02
20 12 12 12		33.48	4.58		999.00		30.11	5.51		191.60	16.03	13.00		999.00		999.00	-1.33	0.01
20 12 12 13		28.15	5.04		999.00		25.06	5.89		188.40	14.33	12.32		999.00		999.00	-1.82	0.01
20 12 12 13		28.99	5.57	52.99	999.00		26.79	5.77		200.90	16.57	13.76		999.00		999.00	-0.20	0.00
20 12 12 14		27.54	5.89		999.00		25.28	6.43		202.00	15.11	12.28		999.00		999.00	-1.90	0.00
20 12 12 15		32.30	6.91		999.00		30.41	7.49		230.00	20.91	10.19		999.00		999.00	-1.05	0.00
20 12 12 10	250.00	JZ.JU	∪. ೨⊥	24.43	222.00	200.00	20.41	1.43	J4. J1	230.00	∠∪. ⊅⊥	TO.T2	50.20	222.00	1.43	222.00	1.00	0.00

20 12 12 17 248.10	34.31	5.29	49.20		243.60	31.33	6.07		239.80	21.29	10.40		999.00		999.00	-1.17	0.00
20 12 12 18 241.60	28.99	4.43	45.70	999.00		27.02	4.44		232.20	19.09	8.11	46.95	999.00	-1.07		-0.61	0.00
20 12 12 19 228.80	32.95	4.21	45.45	999.00	223.50	30.75	5.17	45.92	220.30	22.47	7.89	46.74	999.00	-1.42	999.00	-0.93	0.00
20 12 12 20 237.50	28.99	5.82	44.24	999.00	233.20	27.01	6.04	44.75	230.60	18.82	9.50	45.59	999.00	-1.35	999.00	-0.83	0.00
20 12 12 21 235.60	24.98	4.29	44.24	999.00	230.80	23.42	4.64	44.75	226.50	16.91	7.30	45.59	999.00	-1.28	999.00	-0.76	0.00
20 12 12 22 233.50	26.35	4.30	42.01	999.00	228.00	24.79	5.18	42.58	222.40	17.51	8.81	43.35	999.00	-1.54	999.00	-0.96	0.00
20 12 12 23 237.60	23.30	4.51	41.78	999.00	232.30	21.89	4.72	42.38	227.20	16.00	7.90	43.28	999.00	-1.47	999.00	-0.88	0.00
20 12 12 24 265.50	22.14	6.13	41.40	999.00	259.80	20.33	7.18	41.93	254.70	13.25	10.73	42.88	999.00	-1.51	999.00	-1.00	0.00
20 12 13 1 294.40	17.41	10.42	39.49	999.00	290.90	16.78	10.04	39.97		10.74	14.42	41.03	999.00	-1.54	999.00	-1.13	0.00
20 12 13 2 301.10	16.80	4.47	36.33	999.00	295.80	15.95	4.91		292.90	10.13	12.20	38.03	999.00	-1.69		-1.18	0.00
20 12 13 2 301.10	13.45	6.74	35.54	999.00	293.00	12.80	6.62	36.06	289.40	8.46	13.69	37.22	999.00	-1.67			0.00
																-1.14	
20 12 13 4 309.30	15.96	4.78	35.14	999.00	303.70	15.40	5.80	35.68	300.90	10.41	10.78	36.84	999.00	-1.81		-1.26	0.00
20 12 13 5 298.30	15.78	5.49	33.70	999.00	294.00	14.83	6.03	34.24		9.82	12.91	35.46	999.00	-1.73	999.00	-1.19	0.00
20 12 13 6 289.70	11.66	5.24	999.00	999.00	283.30	11.07	6.07	999.00	275.40	7.94	8.64	34.99	999.00	-1.57	999.00	-1.03	0.00
20 12 13 7 284.40	13.37	3.97	33.19	999.00	277.50	13.16	4.28	33.72	268.30	8.62	8.33	34.72	999.00	-1.35	999.00	-0.84	0.00
20 12 13 8 290.20	16.33	4.91	32.49	999.00	283.30	15.04	5.69	32.93		10.65	9.08	33.74	999.00	-1.42	999.00	-0.92	0.00
20 12 13 9 307.20	16.47	4.87	32.22	999.00	301.10	16.28	5.69	32.76	298.50	11.14	11.39	33.88	999.00	-1.79	999.00	-1.24	0.00
20 12 13 10 296.80	13.33	8.40	31.71	999.00	289.90	13.16	9.07	32.25	284.60	9.65	13.71	33.57	999.00	-1.97	999.00	-1.43	0.00
20 12 13 11 303.40	10.62	6.99	31.42	999.00	297.70	10.37	6.99	31.98	297.70	7.77	13.48	33.42	999.00	-2.04	999.00	-1.49	0.00
20 12 13 12 304.10	9.60	7.26	31.29	999.00	300.30	9.43	8.42	31.86	297.80	6.90	15.28	33.46	999.00	-2.30	999.00	-1.72	0.00
20 12 13 13 317.50	7.08	11.62	31.42	999.00	314.10	7.11	12.10	31.97	317.10	5.74	19.82	33.53	999.00	-2.05	999.00	-1.48	0.00
20 12 13 14 285.90	4.69	13.84	31.79	999.00	286.10	4.59	14.41	32.35	300.40	3.71	16.40	33.99	999.00	-2.23	999.00	-1.67	0.00
20 12 13 15 260.00	1.66	73.80	32.80	999.00	289.50	1.58	61.65	33.44	317.00	1.83	59.97	34.97	999.00	-2.10	999.00	-1.40	0.00
20 12 13 16 127.60	2.40	35.03	33.26	999.00	85.90	2.04	51.25	33.82	59.06	2.41	36.51	34.88	999.00	-1.73	999.00	-1.13	0.00
20 12 13 17 111.20	3.14	25.20	33.26	999.00	89.60	3.58	13.83	33.82	94.50	2.63	16.32	34.88	999.00	-1.53	999.00	-1.04	0.00
20 12 13 18 254.70	5.66	11.12	34.21	999.00	252.30	3.94	13.05	34.57		0.92	31.25	35.39	999.00	-1.02	999.00	-0.73	0.00
20 12 13 19 203.60	6.44	2.13	34.89	999.00	189.50	5.47	2.67		150.80	2.19	10.11	35.83	999.00	-0.59	999.00	-0.47	0.00
20 12 13 19 203.00	6.12	4.05	35.20	999.00	179.40	6.01	4.17		158.10	1.74	16.67	35.53	999.00	-0.31	999.00	-0.06	0.00
20 12 13 20 134.00	9.99	4.02	35.16	999.00		9.81	3.47		168.30	3.54	13.48	35.63	999.00	-0.42	999.00	-0.17	0.00
20 12 13 21 103.40	12.56	2.34	35.26	999.00		10.87	2.92		168.70	4.79	12.04	35.69	999.00	-0.69	999.00	-0.68	0.00
20 12 13 22 107.70		2.43	34.96	999.00	189.60		3.18		186.90	4.56	12.79	35.72	999.00	-0.89	999.00	-0.66	0.00
	12.65					10.68											
20 12 13 24 209.10	12.38	1.76	35.09	999.00	200.40	10.23	2.84		194.10	4.39	12.83	35.96	999.00	-0.79	999.00	-0.64	0.00
20 12 14 1 228.30	9.61	4.83	35.36	999.00	213.80	7.94	5.26		200.20	3.43	14.80	36.09	999.00	-0.69	999.00	-0.57	0.00
20 12 14 2 260.70	11.64	4.31	35.13	999.00	252.10	9.82	5.23		242.70	5.13	9.89	36.10	999.00	-1.17	999.00	-0.78	0.00
20 12 14 3 238.00	7.88	5.56	34.63	999.00	226.20	7.26	6.31		208.00	4.90	9.21	36.06	999.00	-1.41		-0.94	0.00
20 12 14 4 247.40	10.36	8.84	34.50	999.00	236.90	8.62	8.61		220.60	5.45	10.87	35.80	999.00	-1.20	999.00	-0.88	0.00
20 12 14 5 257.20	11.20	4.68	34.54	999.00		10.19	5.25		249.20	6.45	10.30	35.92	999.00	-1.36	999.00	-0.89	0.00
20 12 14 6 268.70	12.97	5.69	34.51	999.00	262.40	11.26	6.83		254.50	7.09	9.52	35.90	999.00	-1.34	999.00	-0.87	0.00
20 12 14 7 279.70	20.20	4.78	34.46	999.00		19.49	5.12		267.70	12.58	9.54	35.88	999.00	-1.46	999.00	-0.95	0.00
20 12 14 8 265.50	18.78	4.95	33.30	999.00	259.70	16.83	4.96	33.79	252.40	10.40	10.74	34.65	999.00	-1.38	999.00	-0.89	0.00
20 12 14 9 295.00	24.52	5.49	32.75	999.00	289.00	22.86	6.01	33.24	285.90	15.42	10.75	34.17	999.00	-1.55	999.00	-1.01	0.00
20 12 14 10 299.60	27.15	6.32	31.23	999.00	293.60	25.84	6.99	31.77	289.70	17.62	11.42	32.92	999.00	-1.78	999.00	-1.22	0.00
20 12 14 11 288.70	24.33	4.95	29.72	999.00	282.00	23.12	5.29	30.27	274.20	16.77	9.50	31.49	999.00	-1.76	999.00	-1.22	0.00
20 12 14 12 289.80	20.24	6.59	29.72	999.00	284.40	19.41	6.49	30.27	279.50	14.57	10.28	31.49	999.00	-1.79	999.00	-1.24	0.00
20 12 14 13 290.10	22.41	5.66		999.00		21.16	6.05		276.50	16.10	9.93		999.00		999.00	-1.31	0.00
20 12 14 14 318.70	23.79	5.17		999.00		23.32	6.10		310.90	17.08	9.68		999.00		999.00	-1.42	0.00
20 12 14 15 311.50	22.52	5.16		999.00		22.15	5.53		304.40	15.15	9.92		999.00		999.00	-1.32	0.00
20 12 14 16 308.50	19.48	7.29		999.00		18.85	8.11		301.10	12.42	12.46		999.00		999.00	-1.23	0.00
20 12 14 17 315.90	18.29	5.70		999.00		18.02	6.28		305.20	12.84	9.41		999.00		999.00	-1.12	0.00
20 12 14 18 305.30	16.15	7.04		999.00		14.93	7.51		292.80	9.04	12.22		999.00		999.00	-0.57	0.00
20 12 14 10 303.30	15.36	7.04		999.00		14.74	9.47		267.60	8.47	16.61		999.00		999.00	-0.26	0.00
20 12 14 19 284.90	15.67	4.05		999.00		13.37	3.88		269.00	6.26	7.99		999.00		999.00	1.04	0.00
20 12 14 20 297.30	10.07	4.05	29.03	222.UU	201.40	13.37	٥٠٠٥	29.00	209.00	0.20	1.33	23.00	222.00	0.03	222.UU	1.04	0.00

00 10 14 01	006 00	16 17	2 04	00 04	000 00	006.00	1416	2 10	00 40	067.60	7 16	6 00	00 40	000 00	0 00	000 00	1 10	0 00
20 12 14 21		16.17	3.04		999.00	286.80	14.16	3.10	29.43		7.16	6.23		999.00		999.00	1.13	0.00
20 12 14 22		16.12	5.85	29.04	999.00	301.00	15.64	6.01	29.39	294.70	9.08	12.02	29.02	999.00	-0.88	999.00	-0.40	0.00
20 12 14 23	310.10	15.42	5.36	28.75	999.00	304.40	15.44	6.54	29.24	299.60	9.67	11.55	29.74	999.00	-1.00	999.00	-0.50	0.00
20 12 14 24 20 12 15 1		14.20 12.72	6.39 5.06	28.17 27.26	999.00 999.00	291.70 307.50	13.42 12.41	6.62 5.39	28.66 27.64	278.90 295.00	7.89 6.34	12.04 13.08	28.99 27.41	999.00 999.00	-0.80 -0.21	999.00 999.00	-0.32 0.19	0.00
20 12 15 1		12.72	4.14	27.26	999.00	310.30	12.41	4.77	27.59	303.30	8.06	8.77	28.05	999.00	-0.21	999.00	-0.42	0.00
20 12 15 2		11.84	5.71	26.82	999.00	313.00	11.66	5.57	27.39	303.30	7.10	9.73	27.74	999.00	-0.91	999.00	-0.42	0.00
20 12 15 3	330.90	9.13	7.13	26.51	999.00	324.30	8.93	7.04	27.32	303.10	5.14	13.96	27.74	999.00	-0.85	999.00	-0.34	0.00
20 12 15 4		8.48	4.07	26.17	999.00	311.10	8.47	4.29	26.67	261.80	4.95	5.66	25.64	999.00	0.03	999.00	1.42	0.00
20 12 15 6	337.00	9.83	5.77	25.76	999.00	332.20	9.44	6.76	26.25	311.40	5.00	18.41	24.70	999.00	0.07	999.00	0.59	0.00
20 12 15 7	349.90	12.61	8.22	25.70	999.00	345.30	12.43	8.48	26.23	337.80	9.10	10.41	27.01	999.00	-1.70	999.00	-1.13	0.00
20 12 15 7	21.80	11.96	8.59	25.50	999.00	18.00	10.12	8.51	26.06	17.37	9.80	10.03	27.31	999.00	-1.86	999.00	-1.31	0.00
20 12 15 9	36.81	11.24	10.71	25.13	999.00	31.26	10.18	9.22	25.68	32.07	9.49	15.34	26.92	999.00	-1.76	999.00	-1.21	0.00
20 12 15 10	48.73	9.41	9.70	25.44	999.00	45.71	9.37	9.39	25.97	49.28	7.52	13.38	27.16	999.00	-1.68	999.00	-1.17	0.00
20 12 15 11	53.81	10.23	8.42	26.19	999.00	48.86	9.97	7.52	26.73	49.29	7.93	13.27	27.92	999.00	-1.79	999.00	-1.25	0.00
20 12 15 12	59.45	9.92	14.10	26.31	999.00	52.84	9.44	13.99	26.87	45.02	7.88	20.43	28.24	999.00	-1.88	999.00	-1.32	0.00
20 12 15 13	78.30	11.58	8.80	26.09	999.00	70.60	11.50	8.51	26.69	68.65	8.68	13.40	28.27	999.00	-2.49	999.00	-1.84	0.00
20 12 15 14	71.80	12.09	9.66	25.98	999.00	64.78	11.60	10.08	26.59	66.44	8.93	17.74	28.38	999.00		999.00	-1.84	0.00
20 12 15 15	68.05	11.88	8.22	25.94	999.00	61.85	11.75	7.36	26.56	63.46	8.49	14.19	28.24	999.00		999.00	-1.50	0.00
20 12 15 16	62.38	13.89	5.55	26.07	999.00	56.11	13.47	5.27	26.66	56.41	9.65	10.96	28.05	999.00	-1.90	999.00	-1.32	0.00
20 12 15 17	61.91	14.11	5.84	26.40	999.00	55.26	13.58	6.79	26.95	52.86	9.80	10.69	28.14	999.00	-1.68	999.00	-1.14	0.00
20 12 15 18	60.44	14.97	6.67	26.73	999.00	54.33	14.56	5.99	27.26	55.01	9.44	12.95	28.31	999.00		999.00	-1.04	0.00
20 12 15 19	60.57	16.33	6.93	27.15	999.00	53.96	15.40	6.81	27.69	52.69	10.17	11.16	28.73	999.00	-1.57	999.00	-1.04	0.00
20 12 15 20	64.31	21.49	3.99	27.92	999.00	56.79	20.23	5.02	28.45	53.41	13.41	10.05	29.47	999.00	-1.52	999.00	-0.99	0.00
20 12 15 21	80.50	21.22	4.79	29.83	999.00	73.30	20.60	5.16	30.35	72.30	12.37	13.23	31.33	999.00	-1.49	999.00	-0.96	0.00
20 12 15 22	84.00	24.89	5.20	31.03	999.00	76.80	23.72	5.87	31.55	76.50	13.48	12.41	32.46	999.00	-1.45	999.00	-0.93	0.00
20 12 15 23	93.30	22.97	4.09	31.19	999.00	85.90	21.83	5.07	31.72	89.30	11.06	13.79	32.67	999.00	-1.49	999.00	-0.97	0.00
20 12 15 24	93.80	25.02	4.44	30.98	999.00	87.00	24.08	5.23	31.51	86.60	12.64	13.64	32.44	999.00	-1.41	999.00	-0.89	0.00
20 12 16 1	93.90	22.95	4.58	31.05	999.00	87.10	21.61	5.56	31.57	85.40	11.27	14.74	32.45	999.00	-1.43	999.00	-0.89	0.00
20 12 16 2	88.70	24.59	3.74	30.75	999.00	81.80	24.16	4.02	31.27	83.50	12.38	13.21	32.18	999.00	-1.41	999.00	-0.90	0.00
20 12 16 3	84.00	26.85	4.22	30.50	999.00	77.30	26.12	4.97	31.04	77.70	14.63	12.30	32.00	999.00	-1.53	999.00	-0.99	0.00
20 12 16 4	82.50	28.91	3.56	30.68	999.00	76.10	28.26	4.24	31.21	77.50	16.46	11.14	32.19	999.00	-1.51		-0.97	0.00
20 12 16 5	84.50	25.59	4.68	31.18	999.00	76.70	24.62	4.90	31.71	75.00	14.52	12.23	32.67	999.00	-1.52	999.00	-0.97	0.00
20 12 16 6	92.00	28.24	4.89	31.08	999.00	84.70	26.94	5.62	31.63	83.30	14.40	13.89	32.63	999.00	-1.53	999.00	-1.00	0.00
20 12 16 7	94.10	26.09	3.83	30.31	999.00	87.30	25.10	4.88	30.85	86.90	12.63	15.08	31.91	999.00		999.00	-1.06	0.00
20 12 16 8	100.50	23.75	4.91	30.38	999.00	93.50	22.41	6.14	30.91	92.10	11.19	15.86	31.95	999.00		999.00	-1.04	0.00
20 12 16 9	100.40	20.92	3.87	29.91	999.00	93.80	20.23	4.47	30.45	97.50	10.49	15.15	31.54	999.00	-1.62	999.00	-1.09	0.00
20 12 16 10	97.90	16.98	4.80	29.09	999.00	90.90	16.20	5.94	29.61	91.90	8.29	14.34	30.65	999.00	-1.53	999.00	-1.02	0.00
20 12 16 11 20 12 16 12	101.60	17.25	4.50	28.04	999.00 999.00	94.80	16.23 16.00	5.63	28.54 28.44	97.40	8.54	15.03 14.30	29.72 29.71	999.00 999.00		999.00 999.00	-1.27	0.00
20 12 16 12	94.80 96.30	16.63 17.33	3.77 4.35	27.94 28.36	999.00	88.40 89.30	16.53	4.83 5.14	28.88	88.50 91.60	8.70 8.99	15.21	30.22	999.00	-1.79 -1.88	999.00	-1.30 -1.35	0.00
20 12 16 13	98.80	16.17	4.33	28.98	999.00	91.80	15.28	5.20	29.49	93.10	8.07	14.58	30.74	999.00	-1.71	999.00	-1.23	0.00
20 12 16 14	89.20	14.65	4.47		999.00	82.60	14.40	4.73	29.49	82.70	8.37	14.20		999.00		999.00	-1.23	0.00
20 12 16 16		13.04	5.10		999.00	82.40	12.73	5.61	30.66	83.80			31.78			999.00	-1.05	0.00
20 12 16 17	83.50	13.04	4.47		999.00	76.30	13.51	5.02	31.25	74.30			32.26			999.00	-0.99	0.00
20 12 16 17	93.10	13.52	3.76		999.00	86.30	12.87	4.52	31.40	89.30	5.78	15.26		999.00		999.00	-0.83	0.00
20 12 16 19	93.60	11.83	2.98		999.00	88.20	11.42	3.63	31.41	91.10	5.21	14.12		999.00		999.00	-0.82	0.00
20 12 16 19	84.20	8.51	3.67		999.00	80.80	7.89	3.13	31.41	88.00	3.49	11.54		999.00		999.00	-0.76	0.01
20 12 16 21	74.40	7.56	3.95		999.00	67.53	7.37	3.95	31.50	64.82	2.77	19.11		999.00		999.00	-0.71	0.00
20 12 16 21	33.57	16.09	5.91		999.00	28.17	14.64	6.82	30.85	26.27	13.72	8.75		999.00		999.00	-1.19	0.00
20 12 16 23	34.09	15.72	6.27		999.00	28.71	13.86	6.84	28.84	26.57	14.17	8.38		999.00		999.00	-1.22	0.00
20 12 16 24	25.88	19.06	3.97		999.00	22.21	13.69	5.19	28.41	21.01	14.80	8.92		999.00		999.00	-1.25	0.00
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20 12 17 1 26.12	18.31	4.23		999.00	22.67	12.88	5.42	27.81	21.66	14.08	9.54		999.00		999.00	-1.26	0.00
20 12 17 2 24.87	17.16	3.55	27.54	999.00	21.47	12.40	4.77	28.06	20.71	12.72	9.72	29.29	999.00	-1.76	999.00	-1.24	0.00
20 12 17 3 31.47	12.53	6.95	27.89	999.00	26.71	10.55	7.55	28.42	23.42	10.24	9.94	29.66	999.00	-1.76	999.00	-1.23	0.00
20 12 17 4 27.54	12.52	4.78	27.89	999.00	24.33	9.54	5.28	28.42	21.49	10.25	9.00	29.66	999.00	-1.73	999.00	-1.20	0.00
20 12 17 5 359.00	9.71	13.77	28.68	999.00	355.20	8.52	13.89	29.21	348.00	7.66	14.72	30.42	999.00	-1.78	999.00	-1.24	0.00
20 12 17 6 350.30	14.87	4.14	28.26	999.00	345.30	14.53	4.36	28.76	343.20	10.48	8.24	29.92	999.00	-1.64	999.00	-1.15	0.00
20 12 17 7 344.40	13.48	5.21	28.14	999.00	338.60	12.70	5.94	28.65	332.00	9.09	10.19	29.81	999.00	-1.64	999.00	-1.14	0.00
20 12 17 8 355.90	13.02	7.27	27.98	999.00	349.60	12.69	7.13	28.50	345.80	9.80	9.14	29.65	999.00	-1.71	999.00	-1.18	0.00
20 12 17 9 3.98	11.08	14.62	28.27	999.00	359.10	9.83	13.66	28.80	2.13	8.38	13.64	30.01	999.00	-1.75	999.00	-1.21	0.00
20 12 17 10 0.87	8.71	15.95	28.84	999.00	358.60	7.85	14.64	29.35	3.34	6.85	20.13	30.53	999.00	-1.71	999.00	-1.17	0.00
20 12 17 11 14.13	8.67	14.00	29.35	999.00	7.96	8.14	13.27	29.88	7.32	7.14	13.03	31.05	999.00	-1.68	999.00	-1.16	0.00
20 12 17 12 12.58	6.11	16.18	29.40	999.00	7.03	5.65	17.15	29.93	6.99	4.95	21.21	31.05	999.00	-1.66	999.00	-1.12	0.00
20 12 17 13 22.04	7.44	9.29	29.40	999.00	18.90	6.02	10.00	29.93	11.89	4.81	16.55	31.05	999.00	-1.63	999.00	-1.13	0.00
20 12 17 14 354.00	8.43	14.36	29.77	999.00	346.50	8.29	12.06	30.27	343.00	6.50	10.21	31.39	999.00	-1.65	999.00	-1.17	0.00
20 12 17 15 344.00	9.26	4.39	29.59	999.00	339.50	8.86	5.16	30.10	335.30	6.59	10.11	31.29	999.00	-1.75	999.00	-1.22	0.00
20 12 17 16 337.00	11.37	3.62	29.59	999.00	331.50	10.80	4.72	30.10	324.80	7.31	9.64	31.29	999.00	-1.58	999.00	-1.09	0.00
20 12 17 17 338.50	11.36	3.30	29.77	999.00	333.00	10.87	5.01	30.23	329.30	7.16	8.27	31.33	999.00	-1.53	999.00	-1.06	0.00
20 12 17 18 351.90	9.65	5.26	29.86	999.00	346.80	9.34	6.62	30.34	338.90	5.89	11.26	31.39	999.00	-1.55	999.00	-1.06	0.00
20 12 17 19 347.50	9.50	3.22	29.87	999.00	342.30	9.27	4.05	30.36	335.20	5.66	9.47	31.36	999.00	-1.46	999.00	-0.98	0.01
20 12 17 20 338.40	10.49	4.61	29.91	999.00	332.20	9.96	5.93	30.35	324.90	5.84	9.42	31.31	999.00	-1.43	999.00	-0.98	0.01
20 12 17 21 335.40	11.60	3.56	29.82	999.00	329.20	10.89	5.27	30.28	318.50	7.01	10.78	31.28	999.00	-1.42	999.00	-0.98	0.01
20 12 17 22 346.20	9.82	5.60	29.77	999.00	341.60	9.06	6.51	30.19	332.70	5.36	9.21	31.10	999.00	-1.37	999.00	-0.95	0.01
20 12 17 23 348.20	9.85	3.96	29.84	999.00	343.10	9.08	5.83	30.29	330.60	5.34	9.05	31.31	999.00	-1.43	999.00	-0.96	0.01
20 12 17 24 335.20	10.79	4.88	29.71	999.00	329.50	9.87	5.27	30.16	322.20	5.77	8.83	31.12	999.00	-1.33	999.00	-0.90	0.00
20 12 18 1 315.60	13.86	3.70	29.49	999.00	308.60	13.71	5.01	29.98	300.70	8.47	9.88	30.97	999.00	-1.49	999.00	-0.98	0.01
20 12 18 2 313.70	11.11	3.74	29.41	999.00	304.90	10.90	4.67	29.92	293.90	6.38	10.63	30.89	999.00	-1.48	999.00	-0.95	0.00
20 12 18 3 307.80	11.88	3.07	29.26	999.00	300.20	11.74	3.29	29.76	287.60	6.55	9.94	30.69	999.00	-1.37	999.00	-0.86	0.00
20 12 18 4 316.30	9.33	2.64	29.20	999.00	308.50	9.36	3.65	29.70	295.00	5.34	9.97	30.56	999.00	-1.34	999.00	-0.84	0.00
20 12 18 5 303.00	9.90	3.02	29.10	999.00	284.30	8.79	3.91	29.43	256.30	5.47	8.25	30.05	999.00	-0.48	999.00	-0.44	0.00
20 12 18 6 293.10	12.34	2.39	28.02	999.00	279.40	11.62	2.15	28.21	258.00	6.80	7.78	28.79	999.00	-0.83	999.00	-0.59	0.00
20 12 18 7 287.60	11.98	3.71	27.52	999.00	274.50	11.28	3.30	27.75	254.40	6.60	8.14	28.27	999.00	-0.85	999.00	-0.64	0.00
20 12 18 8 287.20	11.85	2.89	27.30	999.00	273.70	10.64	3.18	27.55	247.70	5.28	8.29	27.98	999.00	-0.40	999.00	-0.25	0.00
20 12 18 9 263.70	10.25	4.28	27.53	999.00	248.40	9.25	4.33	27.61	240.00	5.54	9.25	28.17	999.00	-1.08	999.00	-0.89	0.00
20 12 18 10 256.20	7.92	7.14	27.36	999.00	246.20	6.95	7.11	27.39	237.70	4.96	9.38	28.37	999.00	-1.39	999.00	-1.16	0.00
20 12 18 11 244.60	8.63	4.48	27.37	999.00	236.30	7.77	6.21	27.68	224.10	5.96	8.93	28.95	999.00	-1.55	999.00	-1.22	0.00
20 12 18 12 230.70	6.92	2.06	27.99	999.00	220.40	7.17	3.18	28.28	220.20	6.24	8.04	29.49	999.00	-1.50	999.00	-1.21	0.00
20 12 18 13 206.20	7.38	4.19	28.65	999.00	202.10	7.04	4.54	29.11	202.00	5.64	10.80	30.60	999.00	-2.00	999.00	-1.50	0.00
20 12 18 14 206.90	8.37	4.52	29.51	999.00	201.40	7.64	5.70	30.34	201.70	5.09	13.61	31.65	999.00	-2.04	999.00	-1.49	0.00
20 12 18 15 203.00	7.61	4.61	30.05	999.00	195.10	7.54	4.37	30.68	192.00	4.58	14.30	32.00	999.00	-1.78	999.00	-1.17	0.00
20 12 18 16 170.30	8.23	3.56	30.45	999.00	161.80	7.98	3.66	31.11	158.60	4.86	12.86	32.19	999.00	-1.74	999.00	-1.08	0.00
20 12 18 17 170.70	11.32	2.70	30.65	999.00	164.50	10.63	1.83	31.07	161.10	3.89	10.25	31.22	999.00	0.35	999.00	0.63	0.00
20 12 18 18 176.70	14.90	1.84	30.74	999.00	169.70	12.97	2.58	30.73	160.90	4.28	10.13	29.87	999.00	1.09	999.00	0.98	0.00
20 12 18 19 173.80	16.43	2.33	30.10	999.00	163.10	13.24	1.95	29.81	152.50	4.20	11.52	28.86	999.00	1.30	999.00	0.88	0.00
20 12 18 20 171.30	18.07	3.12	30.11	999.00	161.10	14.75	3.96	29.52	149.40	5.08	15.31	28.73	999.00	0.53	999.00	0.22	0.00
20 12 18 21 171.90	18.08	2.33	29.39	999.00	163.30	14.95	2.99	29.25	161.00	5.99	12.00		999.00	-0.01	999.00	-0.13	0.00
20 12 18 22 170.30	16.83	2.28		999.00		13.81	2.61		155.80	4.85	11.60		999.00	0.48	999.00	0.23	0.00
20 12 18 23 168.30	18.78	2.35	29.07	999.00	158.80	15.70	2.86	28.94	155.30	6.41	12.66	29.00	999.00	-0.03	999.00	-0.19	0.00
20 12 18 24 173.80	21.20	2.28	28.15	999.00	166.80	17.42	2.88		161.10	6.47	10.47	27.73	999.00		999.00	0.83	0.00
20 12 19 1 173.20	22.75	3.13		999.00		18.68	3.96		159.30	7.47	12.04	27.28	999.00	0.62	999.00	0.28	0.00
20 12 19 2 182.60	21.81	2.58		999.00		17.91	3.00	27.47	172.10	7.72	10.89	27.16	999.00	0.40	999.00	0.10	0.00
20 12 19 3 183.70	22.52	2.92		999.00		19.34	3.20		175.50	8.57	10.44		999.00	0.24	999.00	0.26	0.00
20 12 19 4 178.70	20.87	5.10		999.00		18.23	6.03		168.80	8.81	14.13	29.79	999.00	-0.91	999.00	-0.62	0.00

00 10 10 5 104 50	00.00	4 60 00	75 000 00 150 1	0 15 00	- 06	22.00	155 60	0 50	44 54	20.60	00000	0 00	000 00	0 60	0 00
20 12 19 5 184.70			75 999.00 179.		5.06		177.60	9.72	11.71		999.00		999.00	-0.62	0.00
20 12 19 6 182.40		3.76 30.			4.10		178.20	9.27	11.71	31.27	999.00	-0.97	999.00	-0.63	0.00
20 12 19 7 173.50		4.48 30.			4.92		163.80	9.56	11.72	31.74	999.00		999.00	-0.62	0.00
20 12 19 8 177.60		3.44 30.			4.03		166.70	8.82	13.20	31.66	999.00		999.00	-0.35	0.00
20 12 19 9 179.80	22.64	4.66 31.	47 999.00 174.3	0 20.02	5.63	31.76	174.50	10.91	12.31	32.38	999.00	-1.12	999.00	-0.75	0.00
20 12 19 10 185.30	20.50	4.48 32.	37 999.00 181.2	0 17.95	5.32	32.76	181.40	10.18	11.71	33.49	999.00	-1.16	999.00	-0.75	0.00
20 12 19 11 185.40	18.41	4.80 33.	17 999.00 180. [~]	0 16.47	4.92	33.66	177.70	9.60	10.63	34.44	999.00	-1.28	999.00	-0.75	0.00
20 12 19 12 188.00	18.68	5.19 34.	53 999.00 182.4	0 16.44	5.89	35.09	180.40	9.33	12.00	35.86	999.00	-1.32	999.00	-0.78	0.00
20 12 19 13 188.80	19.06	4.85 35.	43 999.00 183.9	0 16.94	5.42	35.94	182.70	9.53	12.26	36.60	999.00	-1.12	999.00	-0.62	0.00
20 12 19 14 192.30	15.19	5.08 35.	10 999.00 187.4	0 13.15	5.64	35.56	185.30	6.90	12.10	36.08	999.00	-1.03	999.00	-0.57	0.00
20 12 19 15 183.70		2.52 35.			3.44		167.00	4.34	9.80	36.08	999.00	-0.67	999.00	-0.22	0.00
20 12 19 16 177.70		3.27 33.			3.48		160.60	4.37	13.10	34.30	999.00	-0.25	999.00	0.05	0.00
20 12 19 17 178.40		2.75 34.			3.27		157.60	5.22	12.34	34.57	999.00	0.14	999.00	0.45	0.00
20 12 19 18 176.60		3.28 34.			3.64		164.40	5.75	12.61	35.08	999.00	-0.28	999.00	0.07	0.00
20 12 19 19 194.90		4.07 35.			4.41		183.40	6.45	11.28	35.50	999.00	-0.20	999.00	0.19	0.00
20 12 19 19 194.90		3.82 35.			4.41		178.70		11.16	35.61			999.00		0.00
								6.53			999.00	-0.09		0.18	
20 12 19 21 194.20		4.00 35.			4.50		187.30	8.27	12.01	36.06	999.00	-0.58	999.00	-0.20	0.00
20 12 19 22 196.40		3.21 35.			4.09		187.40	8.16	12.70	36.28	999.00	-0.76	999.00	-0.40	0.00
20 12 19 23 192.90		3.78 35.			4.21		184.20	8.42	12.06	35.75	999.00	-0.73	999.00	-0.44	0.00
20 12 19 24 195.60		3.44 34.			3.90		183.40	7.48	11.70	35.63	999.00	-0.68	999.00	-0.37	0.00
20 12 20 1 198.20		2.87 34.			3.72		188.10	7.27	11.94	35.81	999.00	-0.93	999.00	-0.54	0.00
20 12 20 2 198.20	17.26	3.32 34.			3.72		184.00	7.98	11.61	35.61	999.00	-0.93	999.00	-0.52	0.00
20 12 20 3 209.80		2.86 999.			3.24		201.10	6.31	10.86	35.52	999.00	-0.68	999.00	-0.33	0.00
20 12 20 4 204.90	15.15	2.01 35.	09 999.00 195.8	0 13.37	2.12	35.35	188.20	6.02	11.32	35.63	999.00	-0.49	999.00	-0.28	0.00
20 12 20 5 209.20	16.07	2.80 35.	23 999.00 201.3	0 13.43	3.08	35.41	194.30	5.50	12.76	35.83	999.00	-0.47	999.00	-0.26	0.00
20 12 20 6 204.70	15.79	2.92 35.	72 999.00 195.	0 14.14	2.83	35.98	188.90	6.22	12.52	36.33	999.00	-0.71	999.00	-0.42	0.00
20 12 20 7 211.00	15.42	3.28 35.	92 999.00 203.8	0 13.21	4.35	36.22	198.90	6.00	13.33	36.80	999.00	-0.89	999.00	-0.62	0.00
20 12 20 8 219.20	15.58	3.99 36.	41 999.00 212.3	0 13.63	4.63		205.40	6.67	12.34	37.35	999.00	-0.98	999.00	-0.73	0.00
20 12 20 9 218.10	15.43	4.08 36.	86 999.00 210.5	0 13.13	4.02	37.14	201.60	6.75	13.31	37.96	999.00	-1.20	999.00	-0.90	0.00
20 12 20 10 231.50	15.34	6.12 37.	42 999.00 225.9	0 14.03	6.13	37.82	220.10	9.40	8.97	38.92	999.00	-1.59	999.00	-1.11	0.00
20 12 20 11 230.10		4.98 37.			5.86		217.60	9.15	9.93	39.52	999.00	-1.74	999.00	-1.16	0.00
20 12 20 12 239.60		4.39 38.			4.50		230.10	15.58	9.33	40.01	999.00	-1.93	999.00	-1.28	0.00
20 12 20 13 241.30		4.92 36.			5.31		229.30	13.82	8.29	38.38	999.00	-2.10	999.00	-1.63	0.00
20 12 20 14 239.40		6.00 36.			6.40		232.40	12.36	9.78	37.99	999.00	-1.81	999.00	-1.26	0.00
20 12 20 15 258.90		6.74 35.			6.75		248.10	10.68	11.38	36.93	999.00	-1.50	999.00	-1.06	0.00
20 12 20 16 235.80		4.93 34.			5.57		229.00	11.94	9.36	36.17			999.00	-1.35	0.00
20 12 20 10 233.00					5.20		216.10		9.71	36.07		-1.53	999.00		0.00
								9.03			999.00			-0.99	
20 12 20 18 230.80		3.22 33.			3.99		213.30	7.09	8.58	34.45	999.00	-0.26	999.00	0.00	0.00
20 12 20 19 231.30		2.08 33.			2.72		211.60	6.63	8.36	33.45	999.00		999.00	0.33	0.00
20 12 20 20 222.40		2.09 33.			2.87		205.40	4.99	12.59	32.65	999.00	1.01	999.00	0.79	0.00
20 12 20 21 207.50		2.95 33.			3.78		193.90	7.13	12.42	32.97		0.21	999.00	-0.05	0.00
20 12 20 22 213.90		3.19 33.			3.19		201.60	7.55	12.35	34.15	999.00	-0.63	999.00	-0.48	0.00
20 12 20 23 223.50			06 999.00 216.0		4.39		210.60	8.35	9.97		999.00		999.00	-0.39	0.00
20 12 20 24 218.60	16.45	2.35 34.	35 999.00 210.3	0 13.84	2.58	34.52			11.96			0.14	999.00	0.24	0.00
20 12 21 1 203.90	17.34	2.73 33.	90 999.00 193.3	0 14.53	3.44	33.90	177.70	6.01	10.51	33.52	999.00	0.42	999.00	0.32	0.00
20 12 21 2 204.00	21.16	1.87 33.	39 999.00 195.4	0 18.05	2.66		190.40	7.58	11.30	32.99	999.00	0.37	999.00	0.16	0.00
20 12 21 3 206.90	19.30	2.57 33.	66 999.00 197. ⁻	0 16.47	2.26	33.45	188.90	6.48	13.30	33.30	999.00	0.55	999.00	0.33	0.00
20 12 21 4 208.50	18.83	2.85 33.	38 999.00 199. ⁻	0 15.24	2.96		189.50	5.74	11.77	33.25	999.00	0.57	999.00	0.41	0.00
20 12 21 5 214.10			01 999.00 205.2		3.08		197.80	6.42	11.27		999.00		999.00	0.09	0.00
20 12 21 6 207.60			83 999.00 197.0		3.47		187.80	6.51	13.04		999.00		999.00	-0.43	0.00
20 12 21 7 201.90			88 999.00 192.2		3.17		184.90	6.56	11.56		999.00		999.00	-0.46	0.00
20 12 21 8 213.60			11 999.00 206.4		3.48		201.50		12.09		999.00		999.00	-0.26	0.00
	_0.00		333.00 200.		0.10	01.01		0.0 /	00	01.00		0.10		0.20	

20 12 21 10 221.00 16.88 2.55 24.12 299.00 212.00 14.23 2.96 84.22 202.90 6.71 20.04 24.75 99.00 -0.64 999.00 -0.42 0.00 0.00 0.00 12.71 0.22 10.22 21.02 220.06 8.97 1.97 1.97 1.97 1.97 1.97 1.97 1.97 1	00 10 01 0 001 00	16.60	0 55 04 14		1 4 00	0.06	04 00 000 00	6 81	1001	04 55 000	0 01 0		0 40	0 00
20 12 21 23 23 24 24 25 25 25 25 25 25														
20 12 11 2 20 40 18 72 5 46 25 72 29 90 0 215 90 0 70 90 90 0 1.5 90 0 0 0 0 0 0 0 0														
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$														
$ \begin{array}{c} 201\ 22\ 114\ 204,10\ 12.79\ 4.89\ 36.86\ 999,00\ 199,06\ 11.54\ 6.09\ 37.39\ 200.00\ 7.14\ 12.05\ 38.62\ 999,00\ -1.71\ 999,00\ -1.71\ 909,00\ -1.71\ 999,00\ -0.70\ 0.00\ 12.12\ 119\ 106.90\ 14.90\ 13.43\ 5.28\ 36.55\ 999,00\ 191,40\ 13.43\ 5.48\ 37.37\ 185.41\ 14.13\ 38.84\ 399,00\ -0.95\ 999,00$														
$ \begin{array}{c} 20 \ 12 \ 21 \ 15 \ 211.90 & 16.52 \ 2.07 \ 37.00 \ 999.00 \ 2099.00 \ 191.40 \ 13.43 \ 5.68 \ 37.00 \ 180.00 \ 6.81 \ 12.41 \ 38.51 \ 999.00 \ -0.75 \ 999.00 \ -0.70 \ 0.00 \ 201.22 \ 12.17 \ 195.30 \ 15.74 \ 5.28 \ 36.75 \ 999.00 \ 189.50 \ 14.18 \ 5.06 \ 37.21 \ 186.20 \ 8.06 \ 11.96 \ 37.80 \ 999.00 \ -0.10 \ 999.00 \ -0.59 \ 999.00$														
20 12 11 15 196.00 14.90 13.80 36.55 999.00 191.40 13.43 5.68 37.04 193.80 6.51 12.41 37.51 999.00 -1.09 999.00 -0.09 00.00 10.0														
20 12 21 19 195, 30 15,74 5,28 36,76 999,00 199,90 19														
20 12 18 197,50 17,35 3,34 37,28 999,00 200,06 14,09 6,08 37,53 187,30 8,00 12,75 8,08 999,00 -0,70 999,00 -0,23 0,00 20 12 12 12 24 20,00 21,52 6,05 37,13 199,00 255,70 20,45 6,25 37,70 23,40 11,47 9,60 38,51 999,00 -0,76 899,00 -0,76 899,00 -0,70 20,00 20 12 12 22 280,50 17,42 4,52 38,18 899,00 255,70 20,45 6,25 39,27 275,70 23,40 11,47 9,60 38,51 999,00 -0,76 899,00 -0,74 0,00 20 12 12 28,60 17,42 4,52 38,18 899,00 294,70 15,97 4,43 38,70 266,40 8,78 9,43 38,81 999,00 -0,58 999,00 -0,18 999,0														
20 12 12 19 207.80 15.96 5.91 37.08 999.00 206.00 249		15.74			14.18			8.06					-0.59	
20 12 21 20 248,00 21,52 6,05 37,31 999,00 20,45 6,05 37,07 20,45 6,05 37,07 20,45 6,05 37,07 20,45 6,05 37,07 37,00 20,45 6,05 37,07 37,00 20,45 6,05 37,07 37,00 20,45 6,05 37,07 37,00 20,45 6,05 37,0					15.42	4.03		8.00					-0.23	
20 12 12 272,30 23,37 4,80 38,81 999,00 265,70 15,57 4,00 15,97 4,40 31,00 266,40 8,78 991,40 39,22 999,00 -0,07 999,00 -0,23 0,00		15.96	5.91 37.08		14.09			6.79		38.04 999.0	0 -1.99 9	99.00	-1.56	
20 12 12 12 22 28 20 30 17, 42 31, 38 999,00 274, 70 19, 59 4, 43 38, 70 266, 40 8.79 9, 43 38, 81 399,00 -0.94 999		21.52			19.43					38.51 999.0	0 -0.76 9	99.00	-0.32	0.01
$ \begin{array}{c} 2012223 & 267.20 & 19.90 & 8.51 & 37.76 & 999.00 & 259.70 & 17.56 & 8.21 & 38.06 & 259.50 & 10.90 & 12.29 & 38.39 & 999.00 & -0.94 & 9$						6.32								
20 12 21 24 266.90 21.22 6.07 36.08 999.00 261.00 18.49 7.18 36.57 255.20 11.86 9.71 37.41 999.00 -1.93 999.00 -1.43 0.00 20 12 22 2 2 2 2 2 2 2	20 12 21 22 280.50	17.42	4.52 38.38	999.00 274.70	15.97	4.43	38.70 266.40	8.78	9.43	38.81 999.0	0 -0.58 9	99.00	-0.23	0.00
$\begin{array}{c} 2012222 & 1 & 267,00 \\ 201222 & 280,00 & 20.56 \\ 5.03 & 34,66 & 999,00 \\ 20122 & 280,00 & 19.80 \\ 5.07 & 35.73 & 999,00 \\ 201223 & 282,00 \\ 201223 & $	20 12 21 23 267.20	19.90	8.51 37.76		17.56	8.21	38.06 250.50	10.90	12.29	38.33 999.0	0 -0.94 9	99.00	-0.51	0.00
$ \begin{array}{c} 201\ 22\ 2\ 2\ 800,00\ 21,16\ 4,16\ 35,30\ 999,00\ 273,60\ 20.02\ 4.08\ 35.82\ 2665,00\ 11.70\ 992,00\ 37.26\ 999,00\ -1.73\ 999,00\ -1.74\ 999,00\ $	20 12 21 24 266.90	21.22	6.07 36.08	999.00 261.00	18.49	7.18	36.57 255.20	11.86	9.71	37.41 999.0	0 -1.93 9	99.00	-1.43	0.00
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		20.56	5.03 34.66	999.00 260.80	18.17	6.51	35.13 251.60	11.37	10.03	36.60 999.0	0 -1.90 9	99.00	-1.42	0.01
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		21.16	4.16 35.30	999.00 273.60	20.02	4.08	35.82 266.20	12.97	9.25	37.05 999.0	0 -1.73 9	99.00	-1.19	0.00
20 12 22 5 288 80 20.74 4 57 35.72 999.00 281 30 18.50 4.88 36.19 272.90 11.70 8.04 37.54 999.00 -1.78 999.00 -1.73 70.00 20 12 27 27 255.40 18.32 4.55 35.45 999.00 288.40 16.38 5.34 35.82 284.50 10.19 10.12 37.17 999.00 -1.85 999.00 -1.36 0.00 20 12 27 27 28 293.80 18.90 4.25 35.25 999.00 288.60 16.34 4.87 35.73 278.40 10.54 8.78 37.16 999.00 -1.85 999.00 -1.41 0.00 20 12 22 9 289.50 16.97 4.14 35.42 999.00 281.00 15.29 5.01 35.67 272.10 10.18 8.59 37.29 999.00 -2.60 999.00 -1.49 999.00 -1.40 0.00 20 12 21 22 23 23 25 23 23 23 23	20 12 22 3 282.00	19.80	5.27 35.73	999.00 274.40	18.76	5.46	36.25 265.80	11.70	9.92		0 -1.47 9	99.00	-0.97	0.00
20 12 22 6 300.70 19.10 4.47 35.39 99.00 298.40 16.38 5.34 35.82 284.50 10.19 10.12 37.17 999.00 -1.79 999.00 -1.36 0.00	20 12 22 4 293.80	21.99	6.07 35.72	999.00 286.40	19.26	5.65	36.19 276.90	13.75	8.77	37.54 999.0		99.00	-1.52	0.00
20 12 22 7 295.40 18.32 4.55 35.45 399.00 288.40 16.38 5.34 35.88 278.00 10.52 9.24 37.21 999.00 -1.80 999.00 -1.36 0.00	20 12 22 5 288.80	20.74	4.57 35.72	999.00 281.30	18.50	4.88		11.70	8.04	37.54 999.0	0 -1.78 9	99.00	-1.40	0.00
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		19.10	4.47 35.39	999.00 293.30	17.08	5.64	35.82 284.50	10.19	10.12	37.17 999.0	0 -1.79 9	99.00	-1.37	0.00
20 12 22 10 292.20 14.82 6.84 435.11 999.00 285.40 13.29 7.77 36.19 279.00 9.06 11.04 37.92 999.00 -2.60 999.00 -2.05 90.00 20 12 22 11 296.30 17.82 5.81 36.13 999.00 290.20 16.89 6.70 36.69 284.80 12.68 12.40 38.76 999.00 -2.61 999.00 -2.05 90.00 20 12 22 13 282.50 11.60 6.70 36.58 999.00 278.10 11.27 6.91 37.14 269.90 8.93 11.56 39.36 999.00 -2.18 999.00 -2.18 999.00 -2.10 90.00 20 12 22 14 296.40 16.16 6.57 37.50 999.00 278.10 11.27 6.91 37.14 269.90 8.93 11.56 39.36 999.00 -2.28 999.00 -2.07 0.00 20 12 22 15 268.50 16.31 6.50 37.91 999.00 263.80 15.68 6.06 38.44 287.30 10.59 10.58 40.31 999.00 -2.28 999.00 -2.07 0.00 20 12 22 16 268.50 16.31 5.62 40.15 999.00 265.50 14.39 6.51 38.87 261.40 10.10 11.01 40.49 999.00 -2.18 999.00 -1.60 0.00 20 12 22 18 273.60 11.00 1.51 37.07 999.00 267.60 10.57 1.76 37.50 250.90 4.62 8.29 38.46 999.00 -2.18 999.00 -1.60 0.00 20 12 22 19 228.90 6.01 6.92 37.22 999.00 215.60 15.56 1.56 25.56 12.39 6.50 13.88 7 261.40 10.10 11.01 40.49 999.00 -2.18 999.00 -1.60 0.00 20 12 22 19 228.90 6.01 6.92 37.22 999.00 215.60 15.56 1.76 37.50 250.90 4.62 8.29 38.46 999.00 -1.80 999.00 -1.60 0.00 20 12 22 19 228.90 6.01 6.92 37.22 999.00 17.70 4.25 37.50 250.90 4.62 8.29 38.46 999.00 -1.00 999.00 -0.61 0.00 20 12 22 18 273.60 11.70 1.51 37.07 999.00 169.20 12.70 37.57 162.00 3.08 8.62 36.12 999.00 1.03 999.00 1.03 0.00 20 12 22 18 183.30 14.20 2.55 37.00 999.00 168.30 12.25 37.00 169.20 12.70 4.22 37.09 147.30 4.25 16.12 35.40 999.00 1.09 999.00 1.03 0.00 20 12 22 12 181.80 15.59 1.78 36.07 999.00 168.80 16.20 5.56 17.10 5.53 99.00 1.03 999.00	20 12 22 7 295.40	18.32	4.55 35.45	999.00 288.40	16.38	5.34	35.88 278.00	10.52	9.24	37.21 999.0	0 -1.80 9	99.00	-1.36	0.00
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	20 12 22 8 293.80	18.90	4.25 35.29	999.00 286.60	16.43	4.87	35.73 278.40	10.54	8.78	37.16 999.0	0 -1.85 9	99.00	-1.41	0.00
20 12 22 11 296,30 17,82 5.81 36,13 999,00 229,20 16,89 6.70 36,69 284,80 12,68 12,40 38,76 999,00 -2,61 999,00 -2,12 0.00	20 12 22 9 289.50	16.97	4.14 35.42	999.00 281.00	15.29	5.01	35.87 272.10	10.18	8.59	37.29 999.0	0 -1.94 9	99.00	-1.49	0.00
20 12 22 12 301.30 15.18 4.72 36.20 999.00 294.40 14.07 5.79 36.74 288.80 8.97 12.54 38.82 999.00 -2.63 999.00 -2.12 0.00 20 12 22 13 282.50 11.60 6.70 36.58 999.00 278.10 11.27 6.91 37.14 269.90 8.93 11.56 39.36 999.00 -2.61 999.00 -2.07 0.00 20 12 22 14 296.40 16.16 6.57 37.50 999.00 278.10 11.27 6.91 37.14 269.90 8.93 11.56 99.00 -2.61 999.00 -2.07 0.00 20 12 22 15 268.50 16.31 6.50 37.91 999.00 263.80 15.35 7.42 38.06 288.30 10.66 13.64 40.15 999.00 -2.28 999.00 -2.07 0.00 20 12 22 16 271.10 15.61 5.62 38.35 999.00 267.90 17.70 4.05 37.88 259.60 11.36 99.14 30.99 99.00 -1.80 999.00 -1.33 0.00 20 12 22 18 273.60 11.70 1.51 37.07 999.00 267.90 17.70 4.05 37.88 259.60 11.36 99.14 39.29 999.00 -1.80 999.00 -0.61 0.00 20 12 22 18 273.60 11.70 1.51 37.07 999.00 215.60 5.56 12.70 37.57 162.00 3.72 96.3 37.72 999.00 0.44 999.00 0.47 0.00 20 12 22 11 181.30 14.20 2.55 37.00 999.00 177.30 996.70 264.23 17.00 17.70 4.05 37.57 162.00 3.72 999.00 0.00 0.47 999.00 0.47 0.00 20 12 22 11 181.30 14.20 2.55 37.00 999.00 167.70 16.02 2.20 37.50 163.60 4.15 9.32 35.50 999.00 1.11 999.00 0.065 0.00 20 12 22 21 191.80 15.59 1.78 36.07 999.00 167.70 16.02 2.20 35.26 160.20 5.30 99.17 34.20 999.00 1.11 999.00 1.05 0.00 20 12 22 21 191.80 15.59 1.78 36.07 999.00 167.70 16.02 2.20 35.26 160.20 5.30 9.17 34.20 999.00 1.11 999.00 1.05 0.00 20 12 22 3 12.40 20.11 2.30 36.25 999.00 167.70 16.02 2.20 35.26 160.20 5.30 9.17 34.20 999.00 1.11 999.00 1.05 0.00 20 12 23 3 1.166.60 2.59 3.55 34.59 999.00 159.80 18.85 4.05 34.34 155.00 8.80 13.17 34.69 999.00 -0.57 999.00 -0.66 0.00 20 12 23 3 1.166.60 2.22 3.15 999.00 171.10 2.05 34.34 155.00 8.81 13.37 34.69 999.00 -0.57 999.00 -0.66 0.00 20 12 23 3 1.166.60 2.22 3.15 999.00 171.10 2.05 34.34 155.00 8.81 13.37 34.69 999.00 -0.57 999.00 -0.66 0.00 20 12 23 3 1.166.60 2.22 3.15 999.00 171.10 2.05 34.34 155.00 8.81 13.37 34.69 999.00 -0.57 999.00 -0.67 999.00 1.05 0.00 20 12 23 3 1.166.60 2.22 3 3.15 999.00 171.10 2.05 34.34 155.00 8.13 13.71 34.69 999.00 -0.57 999.00 -0.57 999.00 1.05 999.00 1	20 12 22 10 292.20	14.82	6.84 35.73	999.00 285.40	13.29	7.77	36.19 279.00	9.06	11.40	37.92 999.0	0 -2.60 9	99.00	-2.07	0.00
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20 12 23 11 169.00 27.61 4.93 40.80 999.00 163.70 25.37 5.56 41.24 162.90 13.37 12.51 42.13 999.00 -1.59 999.00 -1.00 0.00														
20 12 23 12 173.70 26.06 5.44 44.61 999.00 168.50 24.02 6.61 45.23 170.10 13.01 13.92 46.29 999.00 -1.61 999.00 -1.00 0.00														
	20 12 23 12 173.70	26.06	5.44 44.61	999.00 168.50	24.02	6.61	45.23 170.10	13.01	13.92	46.29 999.0	0 -1.61 9	99.00	-1.00	0.00

20 12 22 12 170 60	20 15	1 (1	16 27	000 00	174 50	27 20	E CO	16 01	172 70	15 05	10 15	47 00	000 00	1 50	000 00	0 04	0 00
20 12 23 13 179.60 20 12 23 14 186.30	29.15 26.02	4.64		999.00		27.39	5.60		173.70 180.20	15.95	12.15 12.94		999.00 999.00		999.00 999.00	-0.94	0.00
		5.94	48.81	999.00		23.94	6.22			14.07		50.26		-1.30		-0.79	
20 12 23 15 184.10	25.98	5.16				23.46	5.91		178.60	13.66	11.96	49.64	999.00		999.00	-0.63	0.00
20 12 23 16 183.00	31.95	5.32		999.00		28.86	5.90		177.90	16.62	10.65	48.74		-1.03	999.00	-0.26	0.00
20 12 23 17 174.10	31.17	4.80	47.46	999.00		28.11	5.32		164.80	13.62	13.21	47.86	999.00	-0.18	999.00	0.38	0.00
20 12 23 18 172.40	34.36	4.24	48.88	999.00		31.22	4.97		167.00	15.40	13.25	48.56		-0.26	999.00	-0.05	0.00
20 12 23 19 177.50	34.98	4.71		999.00		31.23	5.75		174.10	16.86	11.98	50.14	999.00	-0.60	999.00	-0.33	0.00
20 12 23 20 177.90	34.65	4.89	49.64	999.00		31.06	5.67		173.00	16.66	13.60	50.15	999.00		999.00	-0.08	0.00
20 12 23 21 175.20	38.31	5.87	49.16	999.00		34.20	6.56		171.70	18.52	12.88	49.85	999.00	-0.62	999.00	-0.35	0.01
20 12 23 22 173.00	38.26	5.08		999.00		34.04	6.26		169.50	18.41	13.43	50.37	999.00	-0.42	999.00	-0.23	0.00
20 12 23 23 177.00	36.03	5.23	50.84	999.00		32.49	6.49		175.20	18.07	12.73	51.15	999.00	-0.42	999.00	-0.16	0.00
20 12 23 24 177.50	36.71	4.95	50.43	999.00		33.02	5.95		172.40	18.23	12.27	51.04	999.00	-0.67	999.00	-0.25	0.00
20 12 24 1 176.50	38.23	5.25		999.00		34.52	5.82		173.20	19.63	12.09	49.55	999.00	-0.99	999.00	-0.17	0.01
20 12 24 2 178.20	39.01	5.18	48.45	999.00	173.40	35.72	5.94		175.00	20.08	12.38	49.42	999.00	-0.74	999.00	-0.37	0.01
20 12 24 3 183.60	40.81	5.48	47.86	999.00		37.94	5.63		178.70	22.34	11.69	48.80	999.00	-1.20	999.00	-0.63	0.00
20 12 24 4 182.90	36.21	5.00	47.10		179.10	33.54	5.91		178.70	19.83	11.44	48.11	999.00	-0.98	999.00	-0.61	0.00
20 12 24 5 188.80	36.05	5.54	47.79	999.00	184.50	33.00	5.90		184.00	19.34	12.86	48.82	999.00	-1.11	999.00	-0.69	0.00
20 12 24 6 245.40	32.42	7.06	41.76	999.00		30.92	7.17		237.70	21.38	11.10	43.12	999.00	-1.59	999.00	-1.01	0.00
20 12 24 7 249.40	30.21	5.71	34.26	999.00	245.50	28.97	6.25	34.71	241.00	19.75	10.52	35.91	999.00	-1.75	999.00	-1.49	0.00
20 12 24 8 246.50	26.20	6.51	30.39	999.00	241.00	24.23	8.11		237.60	17.32	9.85	31.97		-1.58	999.00	-1.21	0.00
20 12 24 9 234.00	31.28	4.15	27.76	999.00	228.40	30.27	4.61	28.29	225.60	22.23	8.83	29.69	999.00	-2.07	999.00	-1.43	0.00
20 12 24 10 242.30	25.44	6.95	25.28	999.00	237.10	24.35	7.32		232.30	18.05	10.43	27.31		-2.03	999.00	-1.40	0.00
20 12 24 11 250.40	23.55	7.13	24.02	999.00	245.40	21.90	7.62		241.90	16.18	11.83		999.00	-1.98	999.00	-1.36	0.00
20 12 24 12 254.00	23.84	5.48		999.00	248.90	22.67	6.22		245.80	16.42	10.44	25.54		-2.02	999.00	-1.37	0.00
20 12 24 13 263.50	19.83	6.12	23.10	999.00	258.00	19.06	6.84		251.90	13.92	12.35	25.14	999.00	-2.03	999.00	-1.34	0.00
20 12 24 14 265.50	17.74	9.38	21.72	999.00	260.90	16.66	8.81		254.00	11.93	11.98	23.80	999.00	-2.13	999.00	-1.46	0.00
20 12 24 15 269.00	15.70	8.56	21.41	999.00	262.90	15.05	9.42	22.12	253.30	11.19	12.14	23.55	999.00	-2.10	999.00	-1.43	0.00
20 12 24 16 297.10	15.32	4.45	21.60	999.00		15.07	5.02		290.10	10.74	11.09	23.64	999.00	-2.18	999.00	-1.53	0.00
20 12 24 17 283.40	13.49	3.73	21.14	999.00	276.70	13.33	4.48		271.70	10.62	9.39	23.18	999.00		999.00	-1.42	0.00
20 12 24 18 272.60	11.65	5.86		999.00	266.10	10.97	6.58		257.30	8.19	10.35	22.79	999.00	-1.75	999.00	-1.30	0.00
20 12 24 19 279.60	13.20	5.76	21.02	999.00	272.50	12.99	5.62	21.47		9.47	8.89	22.79	999.00	-1.77	999.00	-1.33	0.00
20 12 24 20 295.00	16.95	6.22	21.09	999.00	288.60	15.87	6.94	21.53	282.80	11.18	12.09	22.84	999.00	-1.83	999.00	-1.35	0.00
20 12 24 21 288.30	15.65	5.23		999.00	280.30	15.11	4.80		269.80	11.91	8.39	22.47		-1.70	999.00	-1.27	0.00
20 12 24 22 275.50	15.40	7.00		999.00	268.50	14.72	7.09		259.60	10.87	8.99	21.97	999.00	-1.73	999.00	-1.25	0.01
20 12 24 23 272.90	14.35	5.64	20.22	999.00	265.90	13.58	6.21		259.10	9.99	10.45	21.97			999.00	-1.20	0.01
20 12 24 24 263.70	16.58	4.39	17.53	999.00	257.90	15.65	4.76		253.60	11.09	9.51	19.21	999.00	-1.67	999.00	-1.20	0.00
20 12 25 1 260.00	17.54	5.76	17.12	999.00	253.50	16.43	6.09		248.50	11.10	10.47	18.82	999.00	-1.73	999.00	-1.24	0.00
20 12 25 2 262.30	16.49	6.72	16.91	999.00	256.80	15.17	7.12		251.90	10.31	10.44	18.57	999.00	-1.63	999.00	-1.16	0.00
20 12 25 3 262.70	16.51	4.93	16.46	999.00	255.60	15.34	5.17		250.70	10.73	10.05	18.11	999.00	-1.64	999.00	-1.18	0.00
20 12 25 4 262.90	17.18	4.16	16.22	999.00	256.10	15.65	5.60	16.66		10.61	10.57	17.84	999.00	-1.63	999.00	-1.20	0.00
20 12 25 5 264.50	17.73	3.85	16.25	999.00	256.40	16.40	4.89		248.90	10.68	9.85	17.77	999.00	-1.56	999.00	-1.15	0.00
20 12 25 6 260.00	16.33	4.79	16.42	999.00	253.00	15.40	5.13		246.40	10.68	8.77	18.01	999.00	-1.59	999.00	-1.15	0.00
20 12 25 7 262.60	16.53	4.01		999.00		15.21	5.20		250.40	10.74	9.63		999.00		999.00	-1.19	0.00
20 12 25 8 268.00				999.00		16.92							999.00			-1.13	0.00
20 12 25 9 263.10				999.00		17.93			251.10				999.00		999.00	-1.15	0.00
20 12 25 10 251.70				999.00		16.01			247.60	12.59	9.80		999.00		999.00	-0.94	0.00
20 12 25 11 266.50				999.00		18.76			255.80				999.00		999.00	-0.93	0.00
20 12 25 12 263.90				999.00		16.94			250.70	12.56	10.31		999.00		999.00	-1.11	0.00
20 12 25 13 257.70		4.65		999.00		17.74			248.80	13.34	11.01		999.00		999.00	-1.47	0.00
20 12 25 14 249.40				999.00		17.11			245.50	13.55	10.78		999.00		999.00	-1.39	0.00
20 12 25 15 238.40				999.00		17.58			226.90	14.11	8.05		999.00		999.00	-1.36	0.00
20 12 25 16 244.20	25.41	5.23	18.61	999.00	239.00	24.15	5.84	19.12	236.90	17.81	10.25	20.38	999.00	-1.81	999.00	-1.29	0.00

20 12 25 17 240 24	26.56	4 20	1.6 0.0	000 00	224 60	05 44	4 00	17 [1	0.21 0.0	10 00	0 00	10 00	000 00	1 0 4	000 00	1 44	0 00
20 12 25 17 240.30		4.38	16.98	999.00		25.44	4.23		231.00	18.99	8.09		999.00		999.00	-1.44	0.00
20 12 25 18 242.90		4.85	17.19	999.00	236.30	22.47	4.45		231.60	16.54	8.87	19.03	999.00		999.00	-1.33	0.00
20 12 25 19 247.00		5.15	19.10	999.00	241.40	26.94	6.17		237.10	19.14	9.14	20.75	999.00	-1.63	999.00	-1.21	0.00
20 12 25 20 253.00		4.87	19.46	999.00	246.70	32.00	5.49		245.50	22.62	9.84	21.04	999.00	-1.55	999.00	-1.09	0.00
20 12 25 21 242.40	28.90	6.01	18.23	999.00	236.80	27.13	5.99	18.75	235.50	21.01	9.36	19.92	999.00	-1.77	999.00	-1.22	0.00
20 12 25 22 234.90	28.66	4.52	16.79	999.00	230.10	26.90	4.46	17.37	225.80	20.63	8.53	18.66	999.00	-1.90	999.00	-1.30	0.00
20 12 25 23 240.50	32.58	4.85	17.28	999.00	234.90	31.00	4.99	17.86	232.90	23.88	8.93	19.13	999.00	-1.80	999.00	-1.22	0.00
20 12 25 24 232.90	26.47	5.17	17.28	999.00	227.70	25.14	5.49	17.86	224.30	19.67	9.43	19.13	999.00	-1.86	999.00	-1.29	0.00
20 12 26 1 232.30	29.35	4.59	17.03	999.00	227.10	28.06	4.80	17.61	225.00	21.43	8.46	18.88	999.00	-1.84	999.00	-1.25	0.00
20 12 26 2 232.10	27.53	4.89	16.70	999.00	226.70	25.92	5.29	17.26	221.50	19.58	9.28	18.47	999.00	-1.78	999.00	-1.21	0.00
20 12 26 3 234.90		4.63	16.49	999.00	229.80	26.10	5.03	17.08	225.00	20.59	8.48	18.34	999.00	-1.86	999.00	-1.28	0.00
20 12 26 4 229.10		4.85	16.58	999.00	223.90	24.01	4.84		219.90	18.45	8.66	18.39	999.00		999.00	-1.21	0.00
20 12 26 5 230.20		4.25	17.05	999.00	224.80	21.37	4.72		219.80	17.35	7.72	18.83	999.00	-1.77	999.00	-1.22	0.00
20 12 26 6 234.60		4.84	17.63	999.00	229.40	20.37	4.79	18.19		15.92	8.50	19.38	999.00	-1.78	999.00	-1.22	0.00
20 12 26 7 219.30		4.66	18.38	999.00	213.00	18.96	5.64	18.90	209.60	12.77	10.06	19.99	999.00	-1.55	999.00	-1.05	0.00
20 12 26 8 221.60		4.18	19.03	999.00	215.90	22.73	5.48		212.60	15.81	8.96	20.63	999.00	-1.61	999.00	-1.08	0.00
20 12 26 9 224.30		4.61	19.52	999.00	218.80	22.73	4.96		215.40	16.56	9.27	21.16	999.00	-1.66	999.00	-1.12	0.00
20 12 26 10 227.60		4.98	19.86	999.00	221.40	21.22	5.45		216.00	15.72	9.56	21.61		-1.78	999.00	-1.24	0.00
20 12 26 10 227.00		4.29	19.86	999.00	224.80	26.15	4.72		219.60	18.67	8.52	21.61	999.00	-1.91	999.00	-1.37	0.00
20 12 26 12 236.80			20.31		231.60		4.72		228.00			22.18	999.00		999.00	-1.37	0.00
		4.81		999.00		19.53				15.32	9.08			-1.89			
20 12 26 13 236.80		4.38	21.06	999.00	231.10	18.03	4.81		226.10	14.01	8.42	22.99	999.00		999.00	-1.41	0.00
20 12 26 14 233.10		4.05	22.17	999.00	228.30	17.84	4.55		225.10	13.94	8.86	24.11	999.00		999.00	-1.38	0.00
20 12 26 15 231.10		3.87	23.17	999.00	225.60	17.19	4.44		220.60	13.19	8.49	25.03	999.00	-1.84	999.00	-1.28	0.00
20 12 26 16 234.10		4.84	24.50	999.00	228.40	13.83	5.18		224.20	9.83	8.49	26.24	999.00	-1.70	999.00	-1.16	0.00
20 12 26 17 232.60		4.34	25.72	999.00	226.40	12.34	5.35		220.40	8.81	7.80	27.31	999.00	-1.51	999.00	-1.02	0.00
20 12 26 18 252.00		5.61	26.70	999.00	245.30	11.33	6.47		241.00	7.25	10.17	28.07	999.00	-1.36	999.00	-0.91	0.00
20 12 26 19 256.50		5.46	27.25	999.00	250.40	13.95	5.93		245.00	9.23	10.36	28.63	999.00	-1.41	999.00	-0.92	0.00
20 12 26 20 263.00		2.39	27.14	999.00		10.61	2.64		241.60	5.81	6.97	28.25	999.00	-0.73	999.00	-0.32	0.00
20 12 26 21 261.10		1.63	27.14	999.00	247.50	10.12	1.84		218.30	4.90	6.80	28.25	999.00	0.49	999.00	0.70	0.00
20 12 26 22 215.20		4.34	26.05	999.00	199.50	8.41	3.89	26.10	175.00	4.19	9.88	25.38	999.00	0.55	999.00	0.79	0.00
20 12 26 23 199.30	10.47	2.07	25.49	999.00	185.20	11.22	4.36	25.28	173.30	3.97	9.47	24.71	999.00	1.11	999.00	0.58	0.00
20 12 26 24 198.60	10.91	1.36	25.58	999.00	186.10	12.89	1.87	24.39	175.80	5.23	7.15	23.24	999.00	2.87	999.00	1.13	0.00
20 12 27 1 200.20	9.05	1.05	25.27	999.00	195.00	12.10	1.32	23.82	184.70	4.80	8.77	22.15	999.00	3.73	999.00	2.76	0.00
20 12 27 2 201.90	8.16	0.97	25.41	999.00	201.90	11.06	1.83	24.60	189.80	4.67	8.32	20.90	999.00	4.74	999.00	3.70	0.00
20 12 27 3 193.70	7.14	4.21	25.41	999.00	198.30	9.00	3.41	24.60	172.80	4.59	6.82	20.90	999.00	5.91	999.00	4.94	0.00
20 12 27 4 167.70	7.29	2.04	25.54	999.00	175.30	7.61	5.77	24.83	171.80	4.04	7.74	19.20	999.00	6.62	999.00	5.74	0.00
20 12 27 5 134.70	6.74	9.42	26.09	999.00	153.50	8.63	8.73	24.24	156.70	4.41	10.06	19.70	999.00	5.98	999.00	4.06	0.00
20 12 27 6 166.40	11.85	2.62	24.22	999.00	173.50	12.70	2.06	22.87	165.80	4.69	10.95	20.04	999.00	4.12	999.00	3.67	0.00
20 12 27 7 180.20	15.77	2.19	25.21	999.00	164.70	11.35	3.03	22.71	158.10	4.30	14.49	21.28	999.00	2.30	999.00	-0.07	0.00
20 12 27 8 163.30	17.11	2.49	24.56	999.00	148.50	13.35	3.09	22.54	137.90	5.23	11.47	21.88	999.00	1.32	999.00	0.25	0.00
20 12 27 9 164.10	16.06	2.11	24.40	999.00		11.71	3.80		140.20	4.74	14.09	23.19	999.00	1.08	999.00	-0.26	0.00
20 12 27 10 143.00	15.35	5.07	25.61	999.00	129.50	12.44	6.13	24.79	122.20	6.30	12.19	25.35	999.00	-0.50	999.00	-0.79	0.00
20 12 27 11 147.40		6.40		999.00		12.10	7.54		132.00	6.63	14.65		999.00		999.00	-1.22	0.00
20 12 27 12 156.90		6.02		999.00		13.50	6.41		148.30		16.22		999.00		999.00	-1.39	0.00
20 12 27 13 154.20		5.49		999.00		13.61	7.04		149.90		15.62		999.00		999.00	-1.38	0.00
20 12 27 14 169.90		3.77		999.00		17.81	4.45		166.00	9.89	13.80		999.00		999.00	-1.10	0.00
20 12 27 14 103.30		4.85		999.00		16.08			176.90		12.62		999.00		999.00	-1.02	0.00
20 12 27 13 177.10		3.55		999.00		15.41	3.74		164.80		13.43		999.00		999.00	-0.38	0.00
20 12 27 16 173.00		3.82		999.00		18.41	4.93		158.30	8.90	12.25		999.00		999.00	-0.36	0.00
															999.00		
20 12 27 18 168.10		5.11		999.00		16.28	5.53		159.80	7.78	12.04		999.00			-0.12	0.00
20 12 27 19 171.90		4.70		999.00		19.16	5.50		161.80		12.63		999.00		999.00	0.29	0.00
20 12 27 20 177.30	J 24.24	3.98	41.32	999.00	171.20	21.37	5.05	41.48	171.00	9.38	13.23	41.41	999.00	-0.09	999.00	0.06	0.00

00 10 00 01 100 50	01 01	4 50	40.00	000 00 150	00 05	1.0	F 00	40.00	100 00	10.00	10.64	40.05	000 00	0 01	00000	0 00	0 00
20 12 27 21 178.50	31.21	4.79		999.00 173		.10	5.82		173.30	13.99	13.64		999.00		999.00	0.08	0.00
20 12 27 22 183.80	31.32	4.48	44.73	999.00 179		.16	5.09		179.20	15.38	11.99	44.86	999.00	-0.03	999.00	0.16	0.00
20 12 27 23 194.30	32.44	5.16	44.36	999.00 189		.90	5.73		191.30	15.27	13.56	44.68	999.00		999.00	0.11	0.00
20 12 27 24 198.80	28.74	4.29	42.47	999.00 193		.33	5.04		191.10	12.07	13.69	43.19	999.00	-0.46	999.00	0.33	0.00
20 12 28 1 203.30	31.43	4.31	41.42	999.00 197		.26	5.17		196.90	13.85	12.86	41.52	999.00	0.76	999.00	1.72	0.00
20 12 28 2 212.30	31.70	4.59	42.74	999.00 206		.83	5.18		205.90	15.96	11.53	42.71	999.00	-0.13	999.00	0.65	0.00
20 12 28 3 222.80	37.14	5.67	44.32	999.00 217		.93	5.73		213.90	21.93	10.10	44.47	999.00	-0.49	999.00	0.12	0.00
20 12 28 4 241.10	38.80	5.21	42.64	999.00 236		.77	5.12		234.20	25.06	9.50	42.99	999.00	-0.51	999.00	-0.03	0.00
20 12 28 5 247.00	28.16	4.64	37.03	999.00 241		.83	4.64		234.70	16.71	9.39	38.51	999.00	-1.36	999.00	-0.91	0.00
20 12 28 6 251.30	27.52	5.04	35.49	999.00 246		.24	5.82		239.80	16.40	9.87	36.95	999.00	-1.43	999.00	-0.97	0.00
20 12 28 7 261.80	20.54	5.23	35.25	999.00 256		.67	5.92		252.90	12.91	10.36	36.65	999.00	-1.54	999.00	-1.06	0.00
20 12 28 8 251.30	20.14	4.18	34.35	999.00 246		.97	5.32		241.20	11.16	9.94	35.85	999.00	-1.48	999.00	-1.02	0.00
20 12 28 9 279.20	14.97	11.54	34.10	999.00 270		.43	11.17		258.50	8.55	12.17	35.47	999.00	-1.29	999.00	-0.87	0.00
20 12 28 10 249.10	15.74	4.38	34.05	999.00 243	70 13	.53	6.20	34.50	239.40	7.96	11.10	35.39	999.00	-1.52	999.00	-1.05	0.00
20 12 28 11 259.30	16.11	7.59	33.40	999.00 252	50 14	.87	7.25	33.88	243.10	9.63	11.54	34.82	999.00	-1.40	999.00	-0.87	0.00
20 12 28 12 265.80	15.69	6.49	33.77	999.00 261	30 14	.27	6.48	34.33	254.30	9.35	11.03	35.39	999.00	-1.73	999.00	-1.18	0.00
20 12 28 13 262.20	15.52	7.66	33.76	999.00 257	60 14	.18	7.82	34.28	252.50	10.07	10.60	35.40	999.00	-1.66	999.00	-1.14	0.00
20 12 28 14 269.50	18.78	6.39	33.11	999.00 264	90 17	.25	7.02	33.65	261.30	12.13	10.93	34.78	999.00	-1.74	999.00	-1.19	0.00
20 12 28 15 283.20	18.02	6.80	32.52	999.00 277		.80	7.44	33.05	271.70	12.06	11.57	34.10	999.00	-1.56	999.00	-1.04	0.00
20 12 28 16 291.70	19.08	4.69	31.36	999.00 286	00 17	.80	5.10	31.88	283.10	12.63	10.09	32.92	999.00	-1.51	999.00	-0.99	0.00
20 12 28 17 287.20	14.91	5.27	31.39	999.00 280	50 13	.64	6.01	31.90	272.50	9.03	10.22	32.85	999.00	-1.40	999.00	-0.92	0.00
20 12 28 18 284.20	17.48	5.64	31.40	999.00 278	50 16	.58	5.96	31.90	274.00	11.77	10.23	32.80	999.00	-1.41	999.00	-0.91	0.00
20 12 28 19 285.40	14.65	5.04	31.06	999.00 279	10 13	.88	5.30	31.57	271.90	9.10	9.16	32.44	999.00	-1.36	999.00	-0.86	0.00
20 12 28 20 282.10	17.19	3.18	30.68	999.00 274		.12	3.61		266.00	9.31	9.45	31.66	999.00	-0.81	999.00	-0.40	0.00
20 12 28 21 275.70	18.41	3.15	29.71	999.00 268	30 15	.81	4.44	30.01	259.30	8.27	9.17	30.13	999.00	-0.51	999.00	-0.23	0.00
20 12 28 22 282.90	17.70	3.01	28.85	999.00 275	30 16	.04	3.15	29.11	262.30	7.48	8.54	29.01	999.00	0.10	999.00	0.36	0.00
20 12 28 23 271.60	16.85	1.56	28.30	999.00 262		.76	2.77		248.00	6.67	8.09	28.17	999.00	0.40	999.00	0.48	0.00
20 12 28 30 264.20	19.78	1.74	27.62	999.00 254	10 16	.66	2.98	27.62	240.90	8.40	7.85	27.21	999.00	0.49	999.00	0.38	0.00
20 12 29 1 257.80	19.33	2.45	26.86	999.00 248	10 15	.94	3.39		238.20	7.93	7.76	26.39	999.00	0.22	999.00	0.06	0.00
20 12 29 2 264.40	15.36	7.41	25.69	999.00 258		.98	8.09		255.80	7.23	12.48	26.26	999.00	-0.88	999.00	-0.61	0.00
20 12 29 3 261.00	14.06	4.05	25.17	999.00 255		.98	4.55	25.47	249.90	6.42	10.76	26.01	999.00	-0.94	999.00	-0.61	0.00
20 12 29 4 257.30	19.40	3.65	24.80	999.00 248	90 16	.22	3.99		240.80	8.11	8.61	25.59	999.00	-0.45	999.00	-0.30	0.00
20 12 29 5 262.80	21.29	2.46	24.98	999.00 250		.09	3.69		239.90	10.09	8.24	24.68	999.00	0.40	999.00	-0.02	0.00
20 12 29 6 276.40	18.30	2.28	24.43	999.00 262	30 15	.07	3.31		251.90	6.66	9.17	23.89	999.00	0.86	999.00	0.30	0.00
20 12 29 7 280.60	15.91	0.87	24.83	999.00 264		.80	2.16		243.00	6.66	5.28	23.27	999.00	1.78	999.00	1.04	0.00
20 12 29 8 283.20	14.12	1.32	24.66	999.00 266		.18	1.86		237.10	5.79	5.47		999.00	1.92	999.00	1.21	0.00
20 12 29 9 279.90	14.07	3.56	24.00	999.00 259		.95	4.29		241.40	6.20	8.94	22.54	999.00	1.14	999.00	0.03	0.00
20 12 29 10 284.70	10.09	5.56	24.04	999.00 266		.13	7.17		254.00	5.99	10.63	24.25	999.00	-1.31	999.00	-1.53	0.00
20 12 29 11 280.50	4.08	17.92	25.12	999.00 265		.05	20.54		252.90	3.87	30.80	27.41	999.00	-2.74	999.00	-2.22	0.00
20 12 29 12 201.10	3.36	26.61	27.33	999.00 190		.62	32.23	28.00		3.03	33.66	29.57	999.00	-2.28	999.00	-1.37	0.00
20 12 29 13 115.20	3.41	31.57	27.78	999.00 99		.27	36.06	28.85	56.33	3.63	31.18	29.92	999.00	-1.99	999.00	-1.16	0.00
20 12 29 14 79.50	5.83	12.10	27.53	999.00 69		.05	10.72	28.19	72.30	5.47	15.13	29.76	999.00	-2.16	999.00	-1.61	0.00
20 12 29 15 84.40	6.33	7.57		999.00 74		.36	7.98	27.95	64.90	5.36	11.13		999.00		999.00	-1.51	0.00
20 12 29 16 106.60				999.00 96			5.63		93.80		15.19				999.00	-1.45	0.00
20 12 29 17 103.60	11.19	4.01		999.00 95		.38	4.31		97.70		13.41		999.00		999.00	-1.00	0.00
20 12 29 18 116.80	12.30	2.77		999.00 109		.92	3.40		110.20	6.76	12.92		999.00		999.00	-1.00	0.00
20 12 29 19 119.00	12.57	2.49		999.00 111		.27	3.05		113.40	6.46	13.06		999.00		999.00	-0.99	0.00
20 12 29 20 113.60	14.92	2.87		999.00 106		.31	3.61		107.50	7.54	13.71		999.00		999.00	-0.97	0.00
20 12 29 21 128.90	13.21	3.33		999.00 122		.00	4.31		125.00	6.19	14.92		999.00		999.00	-0.96	0.00
20 12 29 22 134.90	14.06	5.72		999.00 128		.56	7.26		130.10	7.55	12.83		999.00		999.00	-1.06	0.00
20 12 29 23 147.60	16.53	5.40		999.00 141		.58	7.05		140.20	7.78	15.20		999.00		999.00	-0.99	0.01
20 12 29 24 131.20	14.49	7.52	26.33	999.00 122	40 13	.20	8.08	26.79	122.30	7.62	15.26	27.84	999.00	-1.55	999.00	-1.07	0.00

20 12 30 1	130 80	17.13	5.46	26.97	999.00	123.00	15.25	5.99	27 11	121.70	8.46	13.92	28.48	999.00	_1 /5	999.00	-1.00	0.00
	135.80	16.56	4.87	28.13	999.00	126.50	14.31	5.26		124.00	7.36	14.08	29.24	999.00	-0.93	999.00	-0.66	0.00
20 12 30 2												12.05		999.00		999.00		0.00
		19.65	2.80	29.68	999.00	139.50	16.81	3.58		132.50	6.42		29.80				0.43	
20 12 30 4		20.39	3.89	31.03	999.00	150.40	17.94	5.09		150.70	8.64	12.79	31.14	999.00	-0.61		-0.36	0.00
20 12 30 5		19.29	5.21	31.57	999.00		16.21	6.41		172.90	7.82	14.05	32.29	999.00		999.00	-0.39	0.00
20 12 30 6		22.92	5.06	33.63	999.00		19.92	6.45		172.10	9.50	14.01	34.09	999.00	-0.49	999.00	-0.26	0.00
20 12 30 7		25.31	4.41	35.01	999.00		22.74	4.72		177.10	11.63	11.13	35.72	999.00	-0.80	999.00	-0.46	0.00
20 12 30 8		31.61	5.36	36.82	999.00	176.80	28.44	6.12		176.60	15.10	12.81	37.36	999.00	-0.46	999.00	-0.25	0.00
20 12 30 9	192.80	32.84	5.09	38.68	999.00	188.30	29.55	5.58	39.11	190.10	16.04	12.17	39.35	999.00	-0.84	999.00	-0.25	0.00
20 12 30 10	193.30	36.02	4.48	38.16	999.00	187.90	32.50	4.94	38.74	187.00	18.13	12.12	39.12	999.00	-1.10	999.00	-0.52	0.00
20 12 30 11	194.80	33.10	4.28	37.82	999.00	189.40	29.94	4.96	38.01	189.30	15.94	12.74	38.94	999.00	-1.09	999.00	-1.37	0.00
20 12 30 12	198.40	31.31	4.47	37.55	999.00	193.70	27.97	4.89	37.40	192.70	14.64	12.73	38.75	999.00	-1.27	999.00	-1.39	0.00
20 12 30 13	200.90	29.90	4.60	38.45	999.00	195.80	26.56	5.33	38.37	195.20	13.12	12.85	39.60	999.00	-0.83	999.00	-0.89	0.01
20 12 30 14	203.00	28.25	3.81	40.12	999.00	196.70	24.46	4.53	40.13	191.70	12.16	11.98	40.83	999.00	-0.53	999.00	-0.55	0.03
20 12 30 15	209.20	29.38	4.38	42.38	999.00	203.80	26.41	4.68	42.35	200.90	14.18	11.70	43.57	999.00	-3.27	999.00	-3.23	0.02
20 12 30 16	221.60	27.57	5.41	43.36	999.00	216.20	24.88	5.75	43.33	212.40	15.15	10.17	45.74	999.00	-1.45	999.00	-1.41	0.00
20 12 30 17	253.50	28.86	5.98	43.18	999.00	249.00	26.01	6.78	43.40	243.70	16.82	10.30	45.49	999.00	-2.41	999.00	-2.15	0.01
20 12 30 17	266.20	27.04	6.05	40.88	999.00	260.50	24.68	6.80	41.15	254.40	15.47	10.67	42.30	999.00	-1.22	999.00	-0.94	0.05
20 12 30 19	252.10	26.25	5.67	36.14	999.00	247.30	24.00	6.38		241.80	15.87	11.18	37.45	999.00	-1.26	999.00	-0.92	0.00
20 12 30 19	246.00	23.77	4.16	32.64	999.00	241.40	21.16	4.89	32.98	236.40	13.59	9.09	33.96	999.00	-1.00	999.00	-0.78	0.04
20 12 30 21	255.00	23.97	4.86	31.56	999.00	250.00	21.76	5.19	31.76	245.30	14.68	8.99	32.57	999.00	-1.27	999.00	-1.06	0.01
20 12 30 22	261.60	19.07	7.04	31.57	999.00	255.60	17.42	7.59	31.83	250.60	11.61	11.24	32.86	999.00	-1.29	999.00	-1.01	0.00
20 12 30 23	275.70	18.06	5.35	31.02	999.00	269.80	16.39	5.77	31.52	263.60	9.36	10.24	32.13	999.00	-1.08	999.00	-0.27	0.00
20 12 30 24		20.09	5.31	30.35	999.00	268.20	18.16	6.72	30.66	261.60	11.55	10.48	31.55	999.00	-1.25	999.00	-1.11	0.00
20 12 31 1		18.78	5.63	30.15	999.00	264.50	17.01	6.82	30.42	257.50	11.34	11.25	31.39	999.00	-1.35	999.00	-0.79	0.00
20 12 31 2	254.10	14.16	5.17	30.15	999.00	247.50	12.64	6.05		241.90	7.50	11.02	31.25	999.00		999.00	-0.66	0.00
20 12 31 3	256.40	12.18	3.87	29.77	999.00	249.90	11.06	4.65	30.24	245.20	7.10	9.87	31.46	999.00	-1.80	999.00	-1.32	0.00
20 12 31 4	247.70	10.78	3.49	29.49	999.00	240.00	10.07	3.81	29.96	231.20	6.85	7.29	31.27	999.00	-1.76	999.00	-1.29	0.00
20 12 31 5	277.80	9.81	5.55	29.65	999.00	265.40	9.21	5.40	30.02	251.80	5.19	9.28	31.19	999.00	-1.47	999.00	-1.11	0.00
20 12 31 6	315.20	13.25	5.87	29.73	999.00	308.60	13.19	6.67	30.20	303.80	8.51	11.48	31.45	999.00	-1.79	999.00	-1.32	0.00
20 12 31 7	321.70	15.51	7.94	29.54	999.00	314.90	14.64	8.34	30.03	308.20	9.23	12.22	31.31	999.00	-1.76	999.00	-1.28	0.00
20 12 31 8	325.70	14.05	3.69	29.34	999.00	321.10	13.39	4.39	29.84	317.30	8.86	9.31	31.06	999.00	-1.76	999.00	-1.24	0.00
20 12 31 9	327.00	12.09	5.49	28.89	999.00	321.50	11.37	6.45	29.40	314.10	7.65	11.15	30.62	999.00	-1.73	999.00	-1.20	0.00
20 12 31 10	325.20	11.05	6.80	28.78	999.00	321.30	10.96	7.59	29.30	318.90	8.04	11.83	30.46	999.00	-1.66	999.00	-1.14	0.00
20 12 31 11	288.80	8.96	4.76	28.75	999.00	283.10	8.53	4.38	29.28	276.50	7.09	7.92	30.58	999.00	-1.97	999.00	-1.43	0.00
20 12 31 12	266.20	6.89	9.04	28.54	999.00	258.20	7.00	9.68	29.10	248.20	6.10	15.10	30.58	999.00	-2.06	999.00	-1.51	0.00
20 12 31 13	288.70	6.59	12.63	28.56	999.00	284.70	6.55	13.40	29.11		4.85	12.45	30.79	999.00	-2.35	999.00	-1.78	0.00
20 12 31 14	304.20	4.87	19.32	28.58	999.00	303.30	4.70	17.17	29.12	298.10	3.56	27.74	30.80	999.00	-2.21	999.00	-1.66	0.00
20 12 31 15	258.20	5.30	26.49	28.72	999.00	250.80	5.17	27.75	29.27	242.00	4.03	22.56	30.83	999.00	-2.02	999.00	-1.48	0.00
20 12 31 16	320.20	2.80	23.12	28.72	999.00	321.80	2.85	24.53	29.27	333.10	2.61	26.24	30.83	999.00	-1.89	999.00	-1.32	0.00
20 12 31 10	72.80	3.03	9.17	28.90	999.00	67.22	3.25	8.56	29.45	69.32	2.74	14.80	30.71	999.00	-1.72	999.00	-1.21	0.00
20 12 31 17	111.70		22.09	28.82	999.00	105.60	2.79	22.58		117.60	1.84	20.66		999.00	-1.72	999.00		0.00
		2.78							29.33				30.45				-1.09	
20 12 31 19		4.95	10.80	28.81	999.00	150.00	5.11	9.92	29.30	151.30	3.12	15.47	30.44	999.00	-1.59	999.00	-1.12	0.00
20 12 31 20		3.84	12.10	28.60	999.00	132.90	3.75	13.04	29.09	137.70	2.32	23.24	30.17	999.00	-1.52	999.00	-1.02	0.00
20 12 31 21		3.16	14.22	28.45	999.00	97.10	2.92	15.30	28.94	100.40	1.86	18.15	30.00	999.00	-1.56	999.00	-1.04	0.00
	111.60	7.36	12.74	28.35	999.00	106.30	7.37	13.20	28.87	109.20	3.55	24.87	29.65	999.00	-1.10	999.00	-0.57	0.00
20 12 31 23		8.25	12.81	28.34	999.00	105.20	7.85	13.15	28.86	119.10	4.45	17.58	29.81	999.00	-1.41	999.00	-0.93	0.00
20 12 31 24	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	999.00	0.00

L-21-107 Enclosure C

Environmental, Inc. Midwest Laboratory, Monthly Progress Report for January through December 2020 which contains the 2020 Radiological Environmental Monitoring Program Sample Analysis Results

(1 Report follows)



MONTHLY PROGRESS REPORT

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

DAVIS-BESSE NUCLEAR POWER STATION OAK HARBOR, OHIO

Reporting Period: January-December, 2020

Prepared and Submitted by ENVIRONMENTAL, INC., MIDWEST LABORATORY

Project Number: 8003

Reviewed and Approved

A. Banavali, PhD.

Laboratory Manager

Date 2/6/

Distribution: S. Marker, Davis-Besse (2 copies and Original Raw Data)

P. Hintz, Ohio Department of Health

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1.0 INTRODUCTION

The following constitutes the current 2020 Monthly Progress Report for the Radiological Environmental Monitoring Program conducted at the Davis-Besse Nuclear Power Station in Oak Harbor, Ohio. Results of completed analyses are presented in the attached tables.

All activities, except gross alpha and gross beta, are decay corrected to the time of collection.

All samples were collected within the scheduled period unless noted otherwise in the Listing of Missed Samples.

2.0 <u>LISTING OF MISSED SAMPLES</u>

Sample Type	Location	Expected Collection Date	Reason
AP/AI	T-2	02-04-20	Very small sample collected due to the pump failure. Samples discarded per station request.
AP/AI	T-27	03-24-20	Unable to reach the sampler due to the park closure.
TLD	T-55	1st. Qtr	TLD lost in field.
AP/AI	T-9	06-16-20	Power outage caused by severe storms in the area. Sample too small to test; discarded per station request.
AP/AI	T-11	06-16-20	Power outage caused by severe storms in the area. Sample too small to test; discarded per station request.
AP/AI	T-12	08-04-20	No power at the sattion due to an excavation project. Samples not collected
AP/AI	T-12	08-11-20	No power at the sattion due to an excavation project. Samples not collected
AP/AI	T-12	08-18-20	No power at the sattion due to an excavation project. Samples not collected
AP/AI	T-12	08-25-20	No power at the sattion due to an excavation project. Samples not collected
AP/AI	T-9	10-06-20	Pump stopped working after 16 hours.

3.0 DATA TABULATIONS

Table 1. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-1 Units: pCi/m³

Collection: Continuous, weekly exchange.

Date	Volume	Cross But	Date	Volume	0
Collected	(m³)	Gross Beta	Collected	(m³)	Gross Beta
Required LLD		0.010	Required LLD		0.010
01-07-20	278	0.020 ± 0.004	07-07-20	306	0.028 ± 0.00
01-14-20	282	0.012 ± 0.003	07-14-20	296	0.026 ± 0.00
01-21-20	285	0.025 ± 0.004	07-21-20	302	0.027 ± 0.00
01-28-20	281	0.015 ± 0.004	07-28-20	303	0.024 ± 0.00
02-04-20	276	0.012 ± 0.003	08-04-20	295	0.022 ± 0.00
02-11-20	274	0.013 ± 0.004	08-11-20	301	0.027 ± 0.00
02-18-20	277	0.016 ± 0.004	08-18-20	297	0.025 ± 0.00
02-25-20	277	0.024 ± 0.004	08-25-20	559	0.041 ± 0.00
03-03-20	271	0.013 ± 0.004	09-01-20	521	0.031 ± 0.00
03-10-20	240	0.013 ± 0.004	09-08-20	501	0.041 ± 0.00
03-17-20	300	0.023 ± 0.004	09-15-20	537	0.028 ± 0.00
03-24-20	307	0.022 ± 0.004	09-22-20	536	0.036 ± 0.00
03-31-20	304	0.018 ± 0.003	09-29-20	546	0.076 ± 0.00
1st Quarter Me	an ± s.d.	0.017 ± 0.005	3rd Quarter Mea	an ± s.d.	0.033 ± 0.01
04-07-20	307	0.012 ± 0.003	10-06-20	518	0.025 ± 0.00
04-14-20	309	0.024 ± 0.004	10-13-20	505	0.050 ± 0.00
04-21-20	308	0.022 ± 0.004	10-20-20	495	0.041 ± 0.00
04-28-20	304	0.025 ± 0.004	10-27-20	558	0.020 ± 0.00
			11-03-20	575	0.032 ± 0.00
05-05-20	302	0.016 ± 0.003			
05-12-20	290	0.016 ± 0.003	11-10-20	572	0.055 ± 0.00
05-19-20	302	0.023 ± 0.004	11-17-20	570	0.037 ± 0.003
05-26-20	297	0.022 ± 0.004	11-24-20	573	0.029 ± 0.003
06-02-20	306	0.018 ± 0.004	12-01-20	570	0.031 ± 0.003
06-09-20	296	0.024 ± 0.004	12-08-20	573	0.026 ± 0.00
06-16-20	302	0.018 ± 0.003	12-15-20	570	0.058 ± 0.00
06-23-20	309	0.026 ± 0.004	12-22-20	571	0.035 ± 0.00
06-30-20	300	0.021 ± 0.004	12-29-20	571	0.021 ± 0.00
2nd Quarter Me	ean ± s.d.	0.021 ± 0.004	4th Quarter Mea	an ± s.d.	0.035 ± 0.01
			Cumulative Average		0.027

^a lodine-131 concentrations are < 0.07 pCi/m³ unless noted otherwise.

Table 2. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-2 Units: pCi/m³

Date Collected	Volume (m³)	Gross Beta	Date Collected	Volume (m³)	Gross Beta
Collected	(111)	Oloss Dela	Collected	(111)	Gloss Dela
Required LLD		0.010			0.010
01-07-20	298	0.019 ± 0.004	07-07-20	554	0.026 ± 0.003
01-14-20	303	0.013 ± 0.003	07-14-20	547	0.022 ± 0.002
01-21-20	306	0.024 ± 0.004	07-21-20	545	0.025 ± 0.002
01-28-20	301	0.015 ± 0.003	07-28-20	545	0.020 ± 0.00
02-04-20		NS ^b	08-04-20	542	0.020 ± 0.00
02-11-20	326	0.012 ± 0.003	08-11-20	539	0.023 ± 0.003
02-18-20	284	0.017 ± 0.004	08-18-20	535	0.027 ± 0.003
02-25-20	297	0.023 ± 0.004	08-25-20	525	0.033 ± 0.003
03-03-20	286	0.013 ± 0.004	09-01-20	519	0.028 ± 0.003
03-10-20	259	0.010 ± 0.004	09-08-20	619	0.027 ± 0.002
03-17-20	295	0.017 ± 0.003	09-15-20	615	0.016 ± 0.00
03-24-20	289	0.021 ± 0.004	09-22-20	571	0.020 ± 0.00
03-31-20	282	0.012 ± 0.003	09-29-20	569	0.045 ± 0.00
1st Quarter Me	ean ± s.d.	0.016 ± 0.005	3rd Quarter M	3rd Quarter Mean ± s.d. 0.026	
04-07-20	293	0.010 ± 0.003	10-06-20	568	0.014 ± 0.00
04-14-20	291	0.018 ± 0.004	10-13-20	568	0.027 ± 0.00
04-21-20	292	0.018 ± 0.004	10-20-20	563	0.022 ± 0.00
04-28-20	291	0.015 ± 0.004	10-27-20	553	0.017 ± 0.002
			11-03-20	561	0.028 ± 0.00
05-05-20	293	0.013 ± 0.003			
05-12-20	290	0.013 ± 0.003	11-10-20	571	0.047 ± 0.00
05-19-20	292	0.016 ± 0.003	11-17-20	571	0.031 ± 0.003
05-26-20	296	0.013 ± 0.003	11-24-20	572	0.026 ± 0.003
06-02-20	299	0.012 ± 0.003	12-01-20	542	0.032 ± 0.003
06-09-20	293	0.017 ± 0.004	12-08-20	541	0.023 ± 0.00
06-16-20	293	0.011 ± 0.003	12-15-20	570	0.053 ± 0.003
06-23-20	568	0.030 ± 0.003	12-22-20	571	0.035 ± 0.003
06-30-20	553	0.018 ± 0.002	12-29-20	571	0.023 ± 0.002
0.101		0.016 ± 0.005	Ath Overtor M.	22n + 6 d	0.029 ± 0.01
2nd Quarter Mean ± s.d. 0.016		0.016 ± 0.005		4th Quarter Mean ± s.d.	
			Cumulative Average	е	0.022

^a lodine-131 concentrations are < 0.07 pCi/m³ unless noted otherwise.

^b "NS" = No sample; see Table 2.0, Listing of Missed Samples.

Table 3. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-3 Units: pCi/m³

Date Collected	Volume (m³)	Gross Beta	Date Collected	Volume (m³)	Gross Beta
Required LLD		0.010			0.010
required EEB		0.010			0.010
01-07-20	299	0.024 ± 0.004	07-07-20	317	0.035 ± 0.00
01-14-20	265	0.020 ± 0.004	07-14-20	307	0.032 ± 0.00
01-21-20	224	0.054 ± 0.006	07-21-20	308	0.037 ± 0.00
01-28-20	307	0.029 ± 0.004	07-28-20	311	0.028 ± 0.00
02-04-20	286	0.028 ± 0.004	08-04-20	311	0.025 ± 0.00
02-11-20	223	0.023 ± 0.005	08-11-20	315	0.035 ± 0.00
02-18-20	293	0.036 ± 0.004	08-18-20	521	0.030 ± 0.00
02-25-20	295	0.052 ± 0.005	08-25-20	551	0.033 ± 0.00
03-03-20	330	0.029 ± 0.004	09-01-20	542	0.027 ± 0.00
03-10-20	226	0.019 ± 0.004	09-08-20	539	0.030 ± 0.00
03-17-20	272	0.029 ± 0.004	09-15-20	542	0.022 ± 0.00
03-24-20	274	0.029 ± 0.004	09-22-20	540	0.022 ± 0.00
03-31-20	268	0.021 ± 0.004	09-29-20	530	0.050 ± 0.00
1st Quarter Me	an ± s.d.	0.030 ± 0.011	3rd Quarter M	ean ± s.d.	0.031 ± 0.00
04-07-20	278	0.019 ± 0.004	10-06-20	540	0.015 ± 0.00
04-14-20	270	0.027 ± 0.004	10-13-20	527	0.035 ± 0.00
04-21-20	274	0.027 ± 0.004	10-20-20	531	0.026 ± 0.00
04-28-20	273	0.031 ± 0.005	10-27-20	515	0.021 ± 0.00
			11-03-20	525	0.029 ± 0.00
05-05-20	268	0.027 ± 0.004			
05-12-20	273	0.020 ± 0.004	11-10-20	522	0.054 ± 0.00
05-19-20	271	0.027 ± 0.004	11-17-20	509	0.036 ± 0.00
05-26-20	264	0.029 ± 0.004	11-24-20	572	0.026 ± 0.00
06-02-20	277	0.024 ± 0.004	12-01-20	571	0.030 ± 0.00
06-09-20	269	0.029 ± 0.004	12-08-20	570	0.024 ± 0.00
06-16-20	269	0.023 ± 0.004	12-15-20	570	0.061 ± 0.00
06-23-20	266	0.057 ± 0.005	12-22-20	571	0.033 ± 0.00
06-30-20	305	0.024 ± 0.004	12-29-20	571	0.020 ± 0.00
2nd Quarter Me	22n + 6 d	0.028 ± 0.009	4th Quarter M	ean + s d	0.032 ± 0.01
Zilu Quarter Me	an ± 3.U.	0.020 1 0.000			
			Cumulative Averag	e	0.03

^a lodine-131 concentrations are < 0.07 pCi/m³ unless noted otherwise.

Table 4. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-4 Units: pCi/m³

Date	Volume		Date	Volume	
Collected	(m³)	Gross Beta	Collected	(m³)	Gross Beta
Required LLD		0.010			<u>0.010</u>
01-07-20	281	0.026 ± 0.004	07-07-20	520	0.032 ± 0.003
01-14-20	293	0.016 ± 0.003	07-14-20	506	0.026 ± 0.003
01-21-20	286	0.029 ± 0.004	07-21-20	387	0.038 ± 0.004
01-28-20	286	0.018 ± 0.004	07-28-20	444	0.026 ± 0.003
02-04-20	284	0.014 ± 0.003	08-04-20	520	0.022 ± 0.002
02-11-20	281	0.013 ± 0.004	08-11-20	522	0.028 ± 0.003
02-18-20	282	0.018 ± 0.004	08-18-20	518	0.030 ± 0.003
02-25-20	285	0.029 ± 0.004	08-25-20	516	0.034 ± 0.003
03-03-20	272	0.018 ± 0.004	09-01-20	533	0.029 ± 0.003
03-10-20	279	0.015 ± 0.004	09-08-20	532	0.030 ± 0.003
03-17-20	282	0.024 ± 0.004	09-15-20	574	0.020 ± 0.002
03-24-20	282	0.021 ± 0.004	09-22-20	569	0.022 ± 0.002
03-31-20	547	0.016 ± 0.002	09-29-20	564	0.048 ± 0.003
1st Quarter Me	an ± s.d.	0.020 ± 0.006	3rd Quarter M	ean ± s.d.	0.030 ± 0.007
04-07-20	537	0.015 ± 0.002	10-06-20	562	0.018 ± 0.002
04-14-20	551	0.022 ± 0.003	10-13-20	554	0.033 ± 0.003
04-21-20	551	0.026 ± 0.003	10-20-20	548	0.026 ± 0.003
04-28-20	552	0.022 ± 0.003	10-27-20	547	0.019 ± 0.002
			11-03-20	575	0.027 ± 0.002
05-05-20	342	0.015 ± 0.003 b			
05-12-20	542	0.014 ± 0.002	11-10-20	571	0.045 ± 0.003
05-19-20	544	0.023 ± 0.002	11-17-20	572	0.034 ± 0.003
05-26-20	548	0.023 ± 0.002	11-24-20	572	0.024 ± 0.002
06-02-20	530	0.021 ± 0.003	12-01-20	571	0.026 ± 0.003
06-09-20	520	0.028 ± 0.003	12-08-20	570	0.022 ± 0.002
06-16-20	506	0.016 ± 0.002	12-15-20	569	0.059 ± 0.003
06-23-20	517	0.018 ± 0.002	12-22-20	571	0.034 ± 0.003
06-30-20	522	0.023 ± 0.003	12-29-20	571	0.023 ± 0.002
2nd Quarter Me	ean ± s.d.	0.020 ± 0.004	4th Quarter Me	ean ± s.d.	0.030 ± 0.011
			Cumulative Average	е	0.025

^a lodine-131 concentrations are < 0.07 pCi/m³ unless noted otherwise.

^b pump found not running ^c Power outage

Table 5. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-7 Units: pCi/m³

Date	Volume		Date	Volume	
Collected	(m ³)	Gross Beta	Collected	(m ³)	Gross Beta
Required LLD		0.010			0.010
01-07-20	275	0.028 ± 0.004	07-07-20	540	0.028 ± 0.00
01-14-20	284	0.014 ± 0.003	07-14-20	212	0.042 ± 0.00
01-21-20	289	0.037 ± 0.004	07-21-20	535	0.028 ± 0.00
01-28-20	282	0.023 ± 0.004	07-28-20	532	0.024 ± 0.00
02-04-20	278	0.014 ± 0.004	08-04-20	531	0.021 ± 0.00
02-11-20	274	0.018 ± 0.004	08-11-20	529	0.026 ± 0.00
02-18-20	276	0.020 ± 0.004	08-18-20	526	0.028 ± 0.00
02-25-20	274	0.036 ± 0.005	08-25-20	524	0.034 ± 0.00
03-03-20	262	0.019 ± 0.004	09-01-20	522	0.029 ± 0.00
03-10-20	265	0.020 ± 0.004	09-08-20	522	0.030 ± 0.00
03-17-20	268	0.023 ± 0.004	09-15-20	528	0.020 ± 0.00
03-24-20	267	0.023 ± 0.004	09-22-20	540	0.022 ± 0.00
03-31-20	196	0.024 ± 0.005 b	09-29-20	531	0.049 ± 0.00
1st Quarter Me	an ± s.d.	0.023 ± 0.007	3rd Quarter M	ean ± s.d.	0.029 ± 0.00
04-07-20	273	0.015 ± 0.004	10-06-20	525	0.014 ± 0.00
04-14-20	280	0.021 ± 0.004	10-13-20	521	0.029 ± 0.00
04-21-20	259	0.029 ± 0.005	10-20-20	520	0.022 ± 0.00
04-28-20	536	0.023 ± 0.003	10-27-20	519	0.019 ± 0.00
			11-03-20	510	0.031 ± 0.00
05-05-20	537	0.017 ± 0.002			
05-12-20	535	0.014 ± 0.002	11-10-20	499	0.051 ± 0.00
05-19-20	544	0.020 ± 0.002	11-17-20	498	0.034 ± 0.00
05-26-20	551	0.019 ± 0.002	11-24-20	516	0.031 ± 0.00
06-02-20	551	0.020 ± 0.002	12-01-20	568	0.027 ± 0.00
06-09-20	544	0.026 ± 0.003	12-08-20	569	0.021 ± 0.00
06-16-20	545	0.014 ± 0.002	12-15-20	571	0.057 ± 0.00
06-23-20	544	0.025 ± 0.002	12-22-20	572	0.035 ± 0.00
06-30-20	539	0.022 ± 0.002	12-29-20	571	0.024 ± 0.00
2nd Quarter Ma	22n + s d	0.020 ± 0.005	4th Quarter M	aan + e d	0.030 ± 0.01
2nd Quarter Mean ± s.d.		0.020 ± 0.003	4til Qualter Mi	call I 5.U.	0.030 ± 0.01
			Cumulative Average	е	0.026

 $^{^{\}rm a}$ lodine-131 concentrations are < 0.07 pCi/m $^{\rm 3}$ unless noted otherwise.

^b pump failure.

^c Pump found off.

Table 6. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131a.

Location: T-9 (C) Units: pCi/m³

Date Collected	Volume (m³)	Gross Beta	Date Collected	Volume (m³)	Gross Beta
	()		Concolod	(111)	
Required LLD		0.010			<u>0.010</u>
01-07-20	272	0.026 ± 0.004	07-07-20	281	0.032 ± 0.00
01-14-20	291	0.018 ± 0.004	07-14-20	278	0.025 ± 0.00
01-21-20	284	0.037 ± 0.004	07-21-20	352	0.023 ± 0.00
01-28-20	276	0.020 ± 0.004	07-28-20	336	0.018 ± 0.00
02-04-20	267	0.014 ± 0.004	08-04-20	334	0.018 ± 0.00
02-11-20	278	0.015 ± 0.004	08-11-20	580	0.029 ± 0.00
02-18-20	277	0.022 ± 0.004	08-18-20	581	0.030 ± 0.00
02-25-20	286	0.034 ± 0.004	08-25-20	581	0.040 ± 0.00
03-03-20	280	0.021 ± 0.004	09-01-20	573	0.028 ± 0.00
03-10-20	286	0.020 ± 0.004	09-08-20	576	0.032 ± 0.00
03-17-20	286	0.021 ± 0.004	09-15-20	580	0.022 ± 0.00
03-24-20	292	0.022 ± 0.004	09-22-20	579	0.024 ± 0.00
03-31-20	277	0.017 ± 0.004	09-29-20	576	0.050 ± 0.00
1st Quarter Me	an ± s.d.	0.022 ± 0.007	3rd Quarter M	ean ± s.d.	0.029 ± 0.00
04-07-20	286	0.013 ± 0.003	10-06-20		NS ^b
04-14-20	276	0.021 ± 0.004	10-13-20	570	0.033 ± 0.00
04-21-20	276	0.024 ± 0.004	10-20-20	570	0.026 ± 0.00
04-28-20	279	0.028 ± 0.004	10-27-20	571	0.020 ± 0.00
			11-03-20	576	0.033 ± 0.00
05-05-20	276	0.017 ± 0.004			
05-12-20	276	0.017 ± 0.004	11-10-20	552	0.049 ± 0.00
05-19-20	278	0.020 ± 0.004	11-17-20	589	0.036 ± 0.00
05-26-20	285	0.025 ± 0.004	11-24-20	572	0.026 ± 0.00
06-02-20	280	0.023 ± 0.004	12-01-20	572	0.030 ± 0.00
06-09-20	276	0.027 ± 0.004	12-08-20	566	0.024 ± 0.00
06-16-20		NS ^b	12-15-20	574	0.062 ± 0.00
06-23-20	276	0.030 ± 0.004	12-22-20	571	0.039 ± 0.00
06-30-20	276	0.019 ± 0.004	12-29-20	573	0.022 ± 0.00
2nd Quarter Me	ean ± s d	0.022 ± 0.005	4th Quarter Me	ean ± s.d	0.033 ± 0.01
		2.3 0.000			
			Cumulative Average	Э	0.026

^a lodine-131 concentrations are < 0.07 pCi/m³ unless noted otherwise.

^b"NS" = No sample; see Table 2.0, Listing of Missed Samples.

Table 7. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-11 (C) Units: pCi/m³

Date	Volume		Date	Volume	
Collected	(m³)	Gross Beta	Collected	(m³)	Gross Beta
Required LLD		0.010			0.010
01-07-20	257	0.026 ± 0.004	07-07-20	216	0.025 ± 0.005
01-14-20	264	0.018 ± 0.004	07-14-20	259	0.027 ± 0.004
01-21-20	260	0.032 ± 0.005	07-21-20	279	0.029 ± 0.004
01-28-20	254	0.020 ± 0.004	07-28-20	251	0.023 ± 0.004
02-04-20	249	0.013 ± 0.004	08-04-20	281	0.023 ± 0.004
02-11-20	280	0.014 ± 0.004	08-11-20	281	0.020 ± 0.004
02-18-20	285	0.019 ± 0.004	08-18 - 20	277	0.031 ± 0.004
02-25-20	283	0.031 ± 0.004	08-25-20	507	0.044 ± 0.003
03-03-20	269	0.017 ± 0.004	09-01-20	467	0.039 ± 0.003
03-10-20	274	0.017 ± 0.004	09-08-20	436	0.039 ± 0.003
03-17-20	272	0.023 ± 0.004	09-15-20	570	0.025 ± 0.003
03-24-20	243	0.026 ± 0.004	09-22-20	557	0.028 ± 0.003
03-31-20	238	0.017 ± 0.004	09-29-20	567	0.066 ± 0.004
1st Quarter Me	an ± s.d.	0.021 ± 0.006	3rd Quarter Mo	ean ± s.d.	0.032 ± 0.012
04-07-20	263	0.013 ± 0.004	10-06-20	572	0.019 ± 0.002
04-14-20	272	0.024 ± 0.004	10-13-20	536	0.043 ± 0.003
04-21-20	261	0.023 ± 0.004	10-20-20	533	0.034 ± 0.003
04-28-20	260	0.025 ± 0.005	10-27-20	537	0.025 ± 0.003
			11-03-20	575	0.031 ± 0.003
05-05-20	258	0.018 ± 0.004			
05-12-20	150	0.017 ± 0.006 b	11-10-20	571	0.046 ± 0.003
05-19-20	279	0.024 ± 0.004	11-17-20	571	0.040 ± 0.003
05-26-20	265	0.025 ± 0.004	11-24-20	571	0.022 ± 0.002
06-02-20	259	0.018 ± 0.004	12-01-20	543	0.035 ± 0.003
06-09-20	250	0.028 ± 0.005	12-08-20	542	0.022 ± 0.002
06-16-20		NS°	12-15-20	570	0.054 ± 0.003
06-23-20	256	0.031 ± 0.004	12-22-20	571	0.033 ± 0.003
06-30-20	253	0.027 ± 0.004	12-29-20	571	0.021 ± 0.002
2nd Quarter Mean ± s.d.		0.023 ± 0.005	4th Quarter Me	ean + s d	0.033 ± 0.011
and gaaner we	I 0.0.	3.320 2 3.000			
			Cumulative Average	=	0.027

^a lodine-131 concentrations are < 0.07 pCi/m³ unless noted otherwise.

b pump found not running
c "NS" = No sample; see Table 2.0, Listing of Missed Samples.

^a Power outage

Table 8. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131.

Location: T-12 (C) Units: pCi/m3

Date Collected	Volume (m³)	Gross Beta	Date Collected	Volume (m³)	Gross Beta
Collected	(111)	G1088 Dela	Collected	(111)	Gloss Deta
Required LLD		0.010			0.010
01-07-20	283	0.031 ± 0.004	07-07-20	249	0.038 ± 0.005
01-14-20	296	0.017 ± 0.003	07-14-20	316	0.026 ± 0.004
01-21-20	294	0.026 ± 0.004	07-21-20	340	0.029 ± 0.004
01-28-20	291	0.017 ± 0.004	07-28-20	275	0.020 ± 0.003
02-04-20	293	0.014 ± 0.003	08-04-20		NS°
02-11-20	287	0.017 ± 0.004	08-11-20		NS°
02-18-20	281	0.019 ± 0.004	08-18-20		NS ^c
02-25-20	336	0.032 ± 0.004	08-25-20		NS°
03-03-20	311	0.021 ± 0.004	09-01-20	213	0.021 ± 0.004
03-10-20	281	0.018 ± 0.004	09-08-20	321	0.028 ± 0.004
03-17-20	305	0.030 ± 0.004	09-15-20	330	0.016 ± 0.003
03-24-20	313	0.028 ± 0.004	09-22-20	318	0.021 ± 0.004
03-31-20	297	0.016 ± 0.003	09-29-20	310	0.043 ± 0.004
1st Quarter Me	ean ± s.d.	0.022 ± 0.006	3rd Quarter M	ean ± s.d.	0.027 ± 0.009
04-07-20	299	0.002 ± 0.003	10-06-20	311	0.011 ± 0.003
04-14-20	287	0.028 ± 0.004	10-13-20	569	0.028 ± 0.003
04-21-20	289	0.022 ± 0.004	10-20-20	571	0.021 ± 0.002
04-28-20	285	0.024 ± 0.004	10-27-20	570	0.014 ± 0.002
			11-03-20	575	0.031 ± 0.003
05-05-20	275	0.020 ± 0.004			
05-12-20	277	0.018 ± 0.004	11-10-20	572	0.043 ± 0.003
05-19-20	274	0.025 ± 0.004	11-17-20	573	0.028 ± 0.003
05-26-20	272	0.026 ± 0.004	11-24-20	572	0.024 ± 0.002
06-02-20	268	0.026 ± 0.004	12-01-20	543	0.029 ± 0.003
06-09-20	253	0.029 ± 0.005	12-08-20	539	0.021 ± 0.002
06-16-20	264	0.019 ± 0.004	12-15-20	570	0.055 ± 0.003
06-23-20	253	0.035 ± 0.005	12-22-20	571	0.035 ± 0.003
06-30-20	251	0.026 ± 0.004	12-29-20	573	0.023 ± 0.002
2nd Quarter Mean ± s.d.		0.023 ± 0.008	4th Quarter M	ean ± s.d.	0.028 ± 0.012
			Cumulative Averag	e	0.025

 $^{^{\}rm a}$ lodine-131 concentrations are < 0.07 pCi/m³ unless noted otherwise. $^{\rm o}$ Power failure caused by flooding.

c"NS" = No sample; see Table 2.0, Listing of Missed Samples.

Table 9. Airborne particulates and charcoal canisters, analyses for gross beta and iodine-131^a.

Location: T-27 (C) Units: pCi/m³

Date	Volume	Cross Bata	Date	Volume	0 5
Collected	(m³)	Gross Beta	Collected	(m³)	Gross Beta
Required LLD		0.010			0.010
01-07-20	247	0.021 ± 0.004	07-07-20	318	0.020 ± 0.00
01-14-20	283	0.015 ± 0.003	07-14-20	278	0.018 ± 0.00
01-21-20	275	0.031 ± 0.004	07-21-20	309	0.021 ± 0.00
01-28-20	277	0.015 ± 0.004	07-28-20	285	0.016 ± 0.00
02-04-20	271	0.012 ± 0.004	08-04-20	234	0.021 ± 0.00
02-11-20	269	0.013 ± 0.004	08-11-20	286	0.022 ± 0.00
02-18-20	283	0.015 ± 0.004	08-18-20	504	0.031 ± 0.00
02-25-20	229	0.022 ± 0.005	08-25-20	513	0.044 ± 0.00
03-03-20	298	0.018 ± 0.004	09-01-20	500	0.038 ± 0.00
03-10-20	254	0.023 ± 0.004	09-08-20	562	0.042 ± 0.00
03-17-20	323	0.022 ± 0.003	09-15-20	563	0.031 ± 0.00
03-24-20		NS ^b	09-22-20	561	0.032 ± 0.00
03-31-20	238	0.018 ± 0.004	09-29-20	556	0.071 ± 0.00
1st Quarter Me	an ± s.d.	0.019 ± 0.005	3rd Quarter M	3rd Quarter Mean ± s.d.	
04-07-20	291	0.013 ± 0.003	10-06-20	568	0.019 ± 0.00
04-14-20	292	0.026 ± 0.004	10-13-20	560	0.039 ± 0.00
04-21-20	277	0.020 ± 0.004	10-20-20	568	0.032 ± 0.00
04-28-20	223	0.027 ± 0.005	10-27-20	570	0.020 ± 0.00
			11-03-20	575	0.031 ± 0.00
05-05-20	226	0.022 ± 0.004			
05-12-20	288	0.018 ± 0.003	11-10-20	561	0.046 ± 0.00
05-19-20	157	0.035 ± 0.006	11-17-20	583	0.032 ± 0.00
05-26-20	293	0.026 ± 0.004	11-24-20	572	0.026 ± 0.00
06-02-20	371	0.015 ± 0.003	12-01-20	511	0.030 ± 0.00
06-09-20	301	0.017 ± 0.003	12-08-20	558	0.023 ± 0.00
06-16-20	319	0.010 ± 0.003	12-15-20	579	0.056 ± 0.00
06-23-20	315	0.018 ± 0.003	12-22-20	572	0.037 ± 0.00
06-30-20	307	0.013 ± 0.003	12-29-20	571	0.026 ± 0.00
2nd Quarter Mean ± s.d.		0.020 ± 0.007	4th Quarter M	ean ± s.d.	0.032 ± 0.01
			Cumulative Average	е	0.02

^a lodine-131 concentrations are < 0.07 pCi/m³ unless noted otherwise.

^b No sample; see table 2.0, Listing of Missed Samples.

Table 10-1. Airborne particulate data, gross beta analyses, monthly averages, minima and maxima.

	Januar	у			April		
Location	Average	Minima	Maxima	Location	Average	Minima	Maxima
T-9	0.025	0.018	0.037	T-9	0.022	0.013	0.028
T-11	0.024	0.018	0.032	T-11	0.021	0.013	0.025
T-12	0.023	0.017	0.031	T-12	0.019	0.002	0.028
T-27	0.021	0.015	0.031	T-27	0.022	0.013	0.027
Controls	0.023	0.015	0.037	Controls	0.021	0.002	0.028
T-1	0.018	0.012	0.025	T-1	0.021	0.012	0.025
T-2	0.018	0.013	0.024	T-2	0.015	0.010	0.018
T-3	0.032	0.020	0.054	T-3	0.026	0.019	0.031
T-4	0.022	0.016	0.029	T-4	0.021	0.015	0.026
T-7	0.026	0.014	0.037	T-7	0.022	0.015	0.029
Indicators	0.023	0.012	0.054	Indicators	0.021	0.010	0.031

February					
Location	Average	Minima	Maxima		
T-9	0.021	0.014	0.034		
T-11	0.019	0.013	0.031		
T-12	0.021	0.014	0.032		
T-27	0.016	0.012	0.022		
Controls	0.019	0.012	0.034		
T-1	0.016	0.012	0.024		
T-2	0.016	0.012	0.023		
T-3	0.034	0.023	0.052		
T-4	0.018	0.013	0.029		
T-7	0.021	0.014	0.036		
Indicators	0.021	0.012	0.052		

	May		
Location	Average	Minima	Maxima
T-9	0.020	0.017	0.025
T-11	0.020	0.017	0.025
T-12	0.023	0.018	0.026
T-27	0.023	0.015	0.035
Controls	0.022	0.015	0.035
T-1	0.019	0.016	0.023
T-2	0.013	0.012	0.016
T-3	0.025	0.020	0.029
T-4	0.019	0.014	0.023
T-7	0.018	0.014	0.020
Indicators	0.019	0.012	0.029

	March						
Location	Average	Minima	Maxima				
T-9	0.020	0.017	0.022				
T-11	0.021	0.017	0.026				
T-12	0.023	0.016	0.030				
T-27	0.021	0.018	0.023				
Controls	0.021	0.016	0.030				
T-1	0.019	0.013	0.023				
T-2	0.015	0.010	0.021				
T-3	0.025	0.019	0.029				
T-4	0.019	0.015	0.024				
T-7	0.023	0.020	0.024				
Indicators	0.020	0.010	0.029				

	June		
Location	Average	Minima	Maxima
T-9	0.025	0.019	0.030
T-11	0.029	0.027	0.031
T-12	0.027	0.019	0.035
T-27	0.015	0.010	0.018
Controls	0.024	0.010	0.035
T-1	0.022	0.018	0.026
T-2	0.019	0.011	0.030
T-3	0.033	0.023	0.057
T-4	0.021	0.016	0.028
T-7	0.022	0.014	0.026
Indicators	0.023	0.011	0.057

Note: Unless otherwise specified, samples collected on the first, second or third day of the month are grouped with data from the previous month.

Table 10-1. Airborne particulate data, gross beta analyses, monthly averages, minima and maxima.

	July			·	Octobe	r	
Location	Average	Minima	Maxima	Location	Average	Minima	Maxima
T-9	0.025	0.018	0.032	T-9	0.028	0.020	0.033
T-11	0.026	0.023	0.029	T-11	0.030	0.019	0.043
T-12	0.028	0.020	0.038	T-12	0.021	0.011	0.031
T-27	0.019	0.016	0.021	T-27	0.028	0.019	0.039
Controls	0.025	0.016	0.038	Controls	0.027	0.011	0.043
T-1	0.026	0.024	0.028	T-1	0.034	0.020	0.050
T-2	0.023	0.020	0.026	T-2	0.022	0.014	0.028
T-3	0.033	0.028	0.037	T-3	0.025	0.015	0.035
T-4	0.031	0.026	0.038	T-4	0.025	0.018	0.033
T-7	0.031	0.024	0.042	T-7	0.023	0.014	0.031
Indicators	0.029	0.020	0.042	Indicators	0.026	0.014	0.050

	August					
Location	Average	Minima	Maxima			
T-9	0.029	0.018	0.040			
T-11	0.031	0.020	0.044			
T-12	0.021	0.021	0.021			
T-27	0.031	0.021	0.044			
Controls	0.028	0.018	0.044			
T-1	0.029	0.022	0.041			
T-2	0.026	0.020	0.033			
T-3	0.030	0.025	0.035			
T-4	0.029	0.022	0.034			
T-7	0.028	0.021	0.034			
Indicators	0.028	0.020	0.041			

November					
Location	Average	Minima	Maxima		
T-9	0.035	0.026	0.049		
T-11	0.036	0.022	0.046		
T-12	0.031	0.024	0.043		
T-27	0.034	0.026	0.046		
Controls	0.034	0.022	0.049		
T-1	0.038	0.029	0.055		
T-2	0.034	0.026	0.047		
T-3	0.037	0.026	0.054		
T-4	0.032	0.024	0.045		
T-7	0.036	0.027	0.051		
Indicators	0.035	0.024	0.055		

September					
Location	Average	Minima	Maxima		
T-9	0.032	0.022	0.050		
T-11	0.040	0.025	0.066		
T-12	0.027	0.016	0.043		
T-27	0.044	0.031	0.071		
Controls	0.036	0.016	0.071		
T-1	0.045	0.028	0.076		
T-2	0.027	0.016	0.045		
T-3	0.031	0.022	0.050		
T-4	0.030	0.020	0.048		
T-7	0.030	0.020	0.049		
Indicators	0.033	0.016	0.076		

December					
Location	Average	Minima	Maxima		
T-9	0.037	0.022	0.062		
T-11	0.033	0.021	0.054		
T-12	0.034	0.021	0.055		
T-27	0.036	0.023	0.056		
Controls	0.035	0.021	0.062		
T-1	0.035	0.021	0.058		
T-2	0.034	0.023	0.053		
T-3	0.035	0.020	0.061		
T-4	0.035	0.022	0.059		
T-7	0.034	0.021	0.057		
Indicators	0.035	0.020	0.061		

Note: Unless otherwise specified, samples collected on the first, second or third day of the month are grouped with data from the previous month.

Table 11. Airborne particulates, analyses for strontium-89, strontium-90 and gamma-emitting isotopes.

Units: pCi/m³

Location			T-1	ř
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Lab Code Volume (m³)	TAP- 1078 3652	TAP- 2366 3932	TAP- 3911 5300	TAP- 4795 7221
Sr-89 Sr-90	< 0.0005 < 0.0004	< 0.0008 < 0.0007	< 0.0003 < 0.0002	< 0.0002 < 0.0002
Be-7 K-40 Nb-95 Zr-95 Ru-103 Ru-106 Cs-134 Cs-137 Ce-141	0.068 ± 0.012 < 0.017 < 0.0013 < 0.0022 < 0.0006 < 0.0050 < 0.0009 < 0.0005 < 0.0016 < 0.0032	0.108 ± 0.016 < 0.015 < 0.0007 < 0.0010 < 0.0008 < 0.0071 < 0.0009 < 0.0007 < 0.0010 < 0.0050	0.143 ± 0.017 < 0.018 < 0.0018 < 0.0019 < 0.0010 < 0.0035 < 0.0010 < 0.0005 < 0.0009 < 0.0033	0.093 ± 0.013 < 0.011 < 0.0012 < 0.0005 < 0.0039 < 0.0008 < 0.0004 < 0.0010 < 0.0029
Location		Т	-2	
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Lab Code Volume (m³)	TAP- 1079 3526	TAP- 2368 4344	TAP- 3912 7225	TAP- 4796 7322
Sr-89 Sr-90	< 0.0005 < 0.0004	< 0.0004 < 0.0003	< 0.0002 < 0.0001	< 0.0002 < 0.0002
Be-7 K-40 Nb-95 Zr-95 Ru-103 Ru-106 Cs-134 Cs-137 Ce-141	0.068 ± 0.016 < 0.027 < 0.0009 < 0.0015 < 0.0008 < 0.0061 < 0.0010 < 0.0008 < 0.0018 < 0.0045	0.092 ± 0.014 < 0.027 < 0.0007 < 0.0017 < 0.0009 < 0.0060 < 0.0008 < 0.0007 < 0.0012 < 0.0036	0.092 ± 0.011 < 0.011 < 0.0005 < 0.0004 < 0.0007 < 0.0051 < 0.0005 < 0.0005 < 0.0008 < 0.0028	0.069 ± 0.010 < 0.014 < 0.0005 < 0.0009 < 0.0007 < 0.0042 < 0.0005 < 0.0005 < 0.0005 < 0.0009

Table 11. Airborne particulates, analyses for strontium-89, strontium-90 and gamma-emitting isotopes.

Units: pCi/m³

Location		Т	-3	
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Lab Code Volume (m³)	TAP- 1080 3562	TAP- 2369 3557	TAP- 3913 5634	TAP- 4797 7094
Sr-89 Sr-90	< 0.0004 < 0.0004	< 0.0004 < 0.0003	< 0.0002 < 0.0002	< 0.0002 < 0.0002
Be-7 K-40 Nb-95 Zr-95 Ru-103 Ru-106 Cs-134 Cs-137 Ce-141	0.110 ± 0.016 0.022 ± 0.012 < 0.0012 < 0.0009 < 0.0083 < 0.0012 < 0.0009 < 0.0009 < 0.0019 < 0.0061	0.177 ± 0.019 < 0.024 < 0.0010 < 0.0015 < 0.0012 < 0.0100 < 0.0010 < 0.0011 < 0.0020 < 0.0042	0.126 ± 0.014 < 0.013 < 0.0006 < 0.0007 < 0.0009 < 0.0055 < 0.0006 < 0.0007 < 0.0012 < 0.0031	0.068 ± 0.010 < 0.012 < 0.0005 < 0.0012 < 0.0004 < 0.0023 < 0.0005 < 0.0005 < 0.0007
Location		Т	-4	
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Lab Code Volume (m³)	TAP- 1081 3940	TAP- 2370 6762	TAP- 3914 6705	TAP- 4798 7353
Sr-89 Sr-90	< 0.0004 < 0.0003	< 0.0002 < 0.0002	< 0.0002 < 0.0001	< 0.0002 < 0.0002
Be-7 K-40 Nb-95 Zr-95 Ru-103 Ru-106 Cs-134 Cs-137 Ce-141	0.076 ± 0.013 0.038 ± 0.010 < 0.0007 < 0.0014 < 0.0009 < 0.0045 < 0.0008 < 0.0007 < 0.0011 < 0.0036	0.114 ± 0.013 < 0.011 < 0.0010 < 0.0007 < 0.0007 < 0.0044 < 0.0006 < 0.0003 < 0.0010 < 0.0029	0.111 ± 0.012 < 0.012 < 0.0006 < 0.0004 < 0.0006 < 0.0029 < 0.0005 < 0.0005 < 0.0008 < 0.0023	0.067 ± 0.009 < 0.010 < 0.0005 < 0.0006 < 0.0005 < 0.0040 < 0.0005 < 0.0003 < 0.0007 < 0.0023

Table 11. Airborne particulates, analyses for strontium-89, strontium-90 and gamma-emitting isotopes.

Location			-7	
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarte
Lab Code Volume (m³)	TAP- 1082 3490	TAP- 2371 6238	TAP- 3915 6572	TAP- 4799 6959
Sr-89 Sr-90	< 0.0005 < 0.0004	< 0.0003 < 0.0003	< 0.0002 < 0.0001	< 0.0002 < 0.0002
Be-7 K-40 Nb-95 Zr-95 Ru-103 Ru-106 Cs-134 Cs-137 Ce-141	0.098 ± 0.016 0.037 ± 0.011 < 0.0007 < 0.0015 < 0.0009 < 0.0056 < 0.0011 < 0.0008 < 0.0014 < 0.0041	0.121 ± 0.013 < 0.015 < 0.0007 < 0.0012 < 0.0005 < 0.0059 < 0.0007 < 0.0006 < 0.0010 < 0.0038	0.100 ± 0.016 < 0.015 < 0.0012 < 0.0009 < 0.0008 < 0.0045 < 0.0009 < 0.0006 < 0.0014 < 0.0023	0.073 ± 0.009 < 0.008 < 0.0005 < 0.0007 < 0.0030 < 0.0005 < 0.0002 < 0.0007 < 0.0015
Location		T-9	(C)	
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Lab Code Volume (m³)	TAP- 1083 3652	TAP- 2372 3340	TAP- 3916 6207	TAP- 4800 6856
Sr-89 Sr-90	< 0.0005 < 0.0004	< 0.0005 < 0.0004	< 0.0002 < 0.0002	< 0.0002 < 0.0002
Be-7 K-40 Nb-95 Zr-95 Ru-103 Ru-106 Cs-134 Cs-137 Ce-141	0.075 ± 0.017 < 0.016 < 0.0012 < 0.0009 < 0.0010 < 0.0071 < 0.0009 < 0.0008 < 0.0007	0.105 ± 0.015 < 0.016 < 0.0009 < 0.0012 < 0.0009 < 0.0053 < 0.0009 < 0.0007 < 0.0017	0.116 ± 0.015 < 0.013 < 0.0008 < 0.0007 < 0.0009 < 0.0037 < 0.0007 < 0.0004 < 0.0012	0.087 ± 0.011 < 0.010 < 0.0003 < 0.0012 < 0.0006 < 0.0032 < 0.0006 < 0.0005 < 0.0009

Table 11. Airborne particulates, analyses for strontium-89, strontium-90 and gamma-emitting isotopes.

Units: pCi/m³

Location		T-1	1 (C)	
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Lab Code Volume (m³)	TAP- 1084 3428	TAP- 2373 3026	TAP- 3917 4948	TAP- 4801 7263
Sr-89 Sr-90	< 0.0005 < 0.0004	< 0.0005 < 0.0005	< 0.0003 < 0.0002	< 0.0002 < 0.0002
Be-7 K-40 Nb-95 Zr-95 Ru-103 Ru-106 Cs-134 Cs-137 Ce-141	0.090 ± 0.017 0.042 ± 0.014 < 0.0007 < 0.0011 < 0.0009 < 0.0078 < 0.0008 < 0.0008 < 0.0015 < 0.0045	0.117 ± 0.018 < 0.026 < 0.0011 < 0.0021 < 0.0013 < 0.0103 < 0.0012 < 0.0008 < 0.0021 < 0.0047	0.158 ± 0.017 < 0.015 < 0.0011 < 0.0009 < 0.0034 < 0.0008 < 0.0003 < 0.0014 < 0.0043	0.078 ± 0.012 < 0.014 < 0.0004 < 0.0007 < 0.0007 < 0.0048 < 0.0006 < 0.0005 < 0.0011 < 0.0032
Location		T-1:	2 (C)	
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Lab Code Volume (m³)	TAP- 1085 3868	TAP- 2374 3547	TAP- 3918 2672	TAP- 4802 7109
Sr-89 Sr-90	< 0.0004 < 0.0003	< 0.0004 < 0.0004	< 0.0005 < 0.0003	< 0.0002 < 0.0002
Be-7 K-40 Nb-95 Zr-95 Ru-103 Ru-106 Cs-134 Cs-137 Ce-141	0.073 ± 0.013 < 0.019 < 0.0006 < 0.0007 < 0.0062 < 0.0007 < 0.0006 < 0.0014 < 0.0043	0.133 ± 0.017 < 0.027 < 0.0007 < 0.0018 < 0.0012 < 0.0085 < 0.0010 < 0.0009 < 0.0015 < 0.0054	0.109 ± 0.021 < 0.031 < 0.0016 < 0.0022 < 0.0010 < 0.0100 < 0.0012 < 0.0010 < 0.0025 < 0.0070	0.069 ± 0.008 < 0.008 < 0.0003 < 0.0005 < 0.0006 < 0.0030 < 0.0005 < 0.0005 < 0.0005 < 0.0003

Table 11. Airborne particulates, analyses for strontium-89, strontium-90 and gamma-emitting isotopes.

Units: pCi/m³

Location	T-27 (C)			
Quarter	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
Lab Code	TAP- 1086	TAP- 2375	TAP- 3919	TAP- 4803
Volume (m³)	3247	3660	5469	7348
Sr-89	< 0.0005	< 0.0004	< 0.0002	< 0.0004
Sr-90	< 0.0004	< 0.0004	< 0.0002	< 0.0003
Be-7	0.063 ± 0.021 < 0.029	0.097 ± 0.015	0.144 ± 0.016	0.080 ± 0.009
K-40		< 0.015	< 0.014	< 0.011
Nb-95	< 0.0030	< 0.0007	< 0.0007	< 0.0006
Zr-95	< 0.0026	< 0.0009	< 0.0009	< 0.0004
Ru-103	< 0.0016	< 0.0006	< 0.0008	< 0.0005
Ru-106	< 0.0135	< 0.0047	< 0.0062	< 0.0029
Cs-134	< 0.0018	< 0.0007	< 0.0007	< 0.0005
Cs-137	< 0.0009	< 0.0007	< 0.0005	< 0.0005
Ce-141	< 0.0022	< 0.0012	< 0.0011	< 0.0005
Ce-144	< 0.0064	< 0.0025	< 0.0029	< 0.0018

Table 12. Area monitors (TLD), Quarterly. Units: mR/91 days

	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Indicator				
T-1	10.9 ± 0.9	11.3 ± 1.4	11.2 ± 0.9	12.6 ± 1.4
T-2	10.9 ± 0.7	11.6 ± 1.0	11.1 ± 0.8	12.5 ± 0.8
T-3	10.9 ± 1.1	10.5 ± 1.6	10.9 ± 1.0	12.1 ± 1.3
T-4	11.6 ± 0.8	12.6 ± 1.0	11.9 ± 0.9	14.2 ± 0.8
T-5	13.2 ± 0.7	13.6 ± 1.1	13.5 ± 0.6	14.2 ± 1.1
T-6	11.2 ± 1.1	10.4 ± 1.0	11.5 ± 1.1	11.5 ± 0.8
T-10	15.7 ± 1.0	14.0 ± 1.0	15.8 ± 1.1	16.9 ± 0.9
T-38	10.8 ± 0.7	10.8 ± 1.0	11.2 ± 0.7	12.6 ± 1.5
T-40	10.0 ± 0.8	11.0 ± 1.3	10.0 ± 0.7	12.3 ± 1.2
T-41	10.4 ± 0.9	9.8 ± 0.9	10.3 ± 0.8	10.4 ± 0.8
T-42	10.8 ± 0.9	10.2 ± 0.9	11.3 ± 0.8	10.9 ± 0.9
T-43	13.8 ± 1.2	13.6 ± 0.9	14.7 ± 0.9	15.6 ± 0.9
T-44	19.8 ± 1.3	19.3 ± 1.5	20.8 ± 1.3	21.3 ± 1.5
T-45	17.7 ± 0.7	17.2 ± 1.3	18.8 ± 0.6	17.3 ± 1.2
T-46	12.0 ± 1.0	12.1 ± 1.0	12.3 ± 0.6	13.1 ± 0.9
T-47	9.7 ± 1.1	9.7 ± 1.2	10.0 ± 1.2	10.8 ± 1.0
T-48	11.2 ± 1.1	11.0 ± 1.0	12.9 ± 0.7	10.7 ± 0.8
T-49	9.3 ± 0.8	9.3 ± 1.6	9.5 ± 0.7	10.3 ± 1.5
T-51	18.1 ± 1.4	19.3 ± 1.5	19.7 ± 1.3	21.3 ± 1.5
T-52	18.2 ± 1.9	17.8 ± 1.0	19.8 ± 1.9	19.5 ± 1.0
T-54	18.9 ± 1.3	19.6 ± 1.3	20.4 ± 1.2	21.5 ± 1.4
T-55	ND ^a	10.2 ± 1.3	10.6 ± 0.9	12.0 ± 1.4
T-60	14.0 ± 1.3	14.7 ± 1.5	14.8 ± 1.5	15.2 ± 1.6
T-62	10.2 ± 0.5	10.1 ± 0.9	10.9 ± 0.5	10.4 ± 1.1
T-67	17.0 ± 0.8	18.0 ± 1.2	17.8 ± 1.2	18.2 ± 1.1
T-68	16.4 ± 1.6	15.5 ± 0.8	17.2 ± 1.5	15.8 ± 0.9
T-69	17.9 ± 0.8	17.8 ± 1.0	17.8 ± 0.9	18.6 ± 1.0
T-71	11.2 ± 0.5	11.8 ± 1.2	11.5 ± 0.3	11.7 ± 0.9
T-73	16.9 ± 1.0	17.3 ± 1.2	17.8 ± 1.1	16.9 ± 1.5
T-74	16.7 ± 0.5	15.5 ± 1.3	16.1 ± 0.6	16.5 ± 1.6

^a ND = No Data, TLD lost in the field.

Table 12. Area monitors (TLD), Quarterly. Units: mR/91 days

	1et Otr	2nd Otr	3rd Otr	4th Otr
Indicator	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
<u>Indicator</u>				
T-125	15.8 ± 0.9	17.6 ± 0.8	17.6 ± 1.1	17.9 ± 0.9
T-126	17.3 ± 0.7	19.0 ± 1.0	19.6 ± 0.6	19.9 ± 1.5
T-127	20.8 ± 0.9	19.9 ± 1.4	22.4 ± 0.9	21.6 ± 1.6
T-128	17.9 ± 1.2	19.1 ± 1.0	18.8 ± 1.1	21.4 ± 1.2
T-142	11.6 ± 1.0	10.5 ± 1.2	12.3 ± 0.8	11.2 ± 1.4
T-154	19.3 ± 0.6	21.9 ± 1.6	21.7 ± 0.4	24.6 ± 1.8
T-203	15.4 ± 0.8	13.4 ± 1.6	16.3 ± 0.7	15.2 ± 1.5
T-206	10.1 ± 0.7	10.5 ± 0.6	10.5 ± 0.6	11.5 ± 0.4
T-208	9.4 ± 0.8	10.3 ± 0.7	11.5 ± 0.7	11.5 ± 0.9
T-211	8.2 ± 0.9	7.7 ± 1.2	9.0 ± 0.7	8.5 ± 1.3
T-212	9.1 ± 0.8	10.4 ± 1.4	9.8 ± 0.6	10.1 ± 1.1
T-217	17.2 ± 1.5	16.1 ± 1.9	20.0 ± 1.5	18.0 ± 2.2
T-218	19.5 ± 1.2	18.5 ± 1.6	21.7 ± 1.1	20.4 ± 1.2
T-219	13.4 ± 1.2	14.3 ± 1.5	15.2 ± 1.0	15.7 ± 1.7
T-220	14.9 ± 1.0	14.7 ± 1.1	16.5 ± 1.1	16.4 ± 1.5
T-221	14.7 ± 1.1	18.8 ± 1.7	17.1 ± 1.0	20.0 ± 1.9
T-222	11.6 ± 1.0	12.4 ± 1.9	12.9 ± 0.9	14.6 ± 2.0
T-224	10.9 ± 1.0	10.1 ± 1.2	12.5 ± 0.8	11.4 ± 1.2
Mean ± s.d.	13.9 ± 3.6	14.0 ± 3.7	14.7 ± 4.0	15.1 ± 4.0

Table 12. Area monitors (TLD), Quarterly.
Units: mR/91 days

	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Control				
T-7	16.7 ± 0.8	15.8 ± 1.3	17.2 ± 0.9	18.1 ± 1.5
T-9	12.2 ± 0.9	12.7 ± 0.9	12.8 ± 1.0	15.1 ± 0.9
T-11	12.7 ± 0.7	12.7 ± 0.3	12.5 ± 0.6	14.8 ± 0.9
T-12	15.7 ± 0.7 15.7 ± 0.9	16.5 ± 1.6	15.8 ± 0.9	18.9 ± 1.3
T-12	18.2 ± 1.5	18.8 ± 1.0	19.1 ± 1.4	20.8 ± 1.1
T-100	15.8 ± 0.9	17.3 ± 1.3	16.5 ± 0.9	17.7 ± 1.5
T-124	20.1 ± 1.1	22.2 ± 1.0	20.8 ± 1.1	23.2 ± 1.2
T-124	13.3 ± 0.7	13.9 ± 1.1	14.0 ± 0.9	25.2 ± 1.2 15.7 ± 1.3
T-150	16.2 ± 0.8	15.5 ± 1.4	16.8 ± 0.7	15.7 ± 1.3
T-100	13.4 ± 0.6	13.7 ± 0.6	14.5 ± 0.7	17.7 ± 1.7 13.2 ± 0.4
1-201	13.4 ± 0.0	13.7 ± 0.0	14.5 ± 0.5	13.2 ± 0.4
Mean ± s.d.	14.8 ± 2.0	14.6 ± 1.3	15.7 ± 1.6	15.5 ± 3.2
QC				
T-80	10.6 ± 1.0	11.5 ± 1.3	10.7 ± 0.9	11.9 ± 0.9
T-83	10.6 ± 0.5	10.2 ± 1.4	10.2 ± 0.3	10.6 ± 1.3
T-84	12.4 ± 0.8	12.5 ± 0.8	12.5 ± 0.8	11.1 ± 0.9
T-113	19.8 ± 0.6	20.5 ± 1.1	21.7 ± 0.7	21.0 ± 1.2
T-200	10.4 ± 0.6	11.8 ± 0.6	12.5 ± 0.5	11.8 ± 0.7
. 200	10.1 2 0.0	2 0.0		
Mean ± s.d.	12.8 ± 4.0	13.3 ± 4.1	13.5 ± 4.7	13.3 ± 4.3
Shield				
T-87	6.5 ± 0.7	7.5 ± 1.2	6.3 ± 0.4	7.6 ± 1.2

Table 13. Milk, analyses for strontium-89, strontium-90, iodine-131, gamma emitting isotopes, calcium and stable potassium.

Monthly collections, location T-24

Units: pCi/L

Date Collected	05-06-20	09-02-20	
Lab Code	TMI- 1422	TMI- 3124	
I-131	< 0.4	< 0.4	
Sr-89	< 0.8	< 0.6	
Sr-90	< 0.5	< 0.5	
K-40	1309 ± 110	1449 ± 118	
Cs-134	< 3.9	< 4.6	
Cs-137	< 2.6	< 3.4	
Ba-La-140	< 3.6	< 7.9	
Ca (g/L)	0.96	1.18	
Sr-90/g Ca	< 0.52	< 0.42	
K (g/L)	1.60 ± 0.13	1.77 ± 0.14	
Cs-137/g K	< 1.63	< 1.92	

Table 14. Ground water samples, analyses for gross beta, tritium, strontium-89, strontium-90 and gamma-emitting isotopes.

Collection: Quarterly

Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	
Location			T-27A (C)		
Lab Code	TWW- 258				Req. LLI
Date Collected	01-09-20				
Gross beta	< 3.6				4.0
H-3	< 330				330
Sr-89	< 0.6				
Sr-90	< 0.4				
Mn-54	< 2.6				15
Fe-59	< 4.2				30
Co-58	< 3.8				15
Co-60	< 2.3				15
Zn-65	< 7.6				30
Zr-Nb-95	< 5.3				15
Cs-134 Cs-137	< 3.0 < 2.1				15 18
Ba-La-140	< 12.6				15
Location			T-029		
Lab Code		TWW- 1418	TWW- 3135	TWW- 4441	Req. LL
Date Collected		04-09-20	08-12-20	11-04-20	
Gross beta		< 0.9	1.2 ± 0.6	1.5 ± 0.6	4.0
H-3		< 330	< 330	< 330	330
Sr-89		< 0.7	< 0.6	< 0.8	
Sr-90		< 0.6	< 0.5	< 0.5	
Mn-54		< 2.7	< 2.7	< 4.2	15
Fe-59		< 5.5	< 4.8	< 8.4	30
Co-58		< 2.7	< 1.6	< 3.2	15
Co-60		< 2.6	< 1.4	< 3.7	15
Zn-65		< 5.8	< 3.5	< 5.4	30
Zr-Nb-95		< 4.3	< 3.8	< 4.9	15
Cs-134		< 3.3	< 2.4	< 3.7	15
Cs-137		< 4.5	< 1.9	< 2.9	18 15
Ba-La-140		< 12.4	< 8.6	< 12.0	15

Table 17. Green leafy vegetables, analyses for strontium-89, strontium-90, iodine-131 and other gamma-emitting isotopes.

Collection: Monthly, in season Units: pCi/g wet

Location			T-17 (I)		
Lab Code	TVE- 2174	TVE- 2175	TVE- 2675	TVE- 2676	TVE- 3045
Date Collected	06-30-20	06-30-20	07-29-20	07-29-20	08-26-20
Sample Type	Cabbage	Kale	Cabbage	Kale	Cabbage
Sr-89	< 0.004	< 0.010	< 0.003	< 0.018	< 0.007
Sr-90	< 0.004	< 0.009	< 0.003	< 0.010	< 0.007
		< 0.010	< 0.024	< 0.029	< 0.019
I-131 K-40	< 0.010 2.14 ± 0.25	3.32 ± 0.35	1.60 ± 0.19	2.59 ± 0.23	3.27 ± 0.23
Nb-95	< 0.010	< 0.012	< 0.006	< 0.005	< 0.008
Zr-95	< 0.011	< 0.019	< 0.016	< 0.014	< 0.009
Cs-134	< 0.009	< 0.012	< 0.008	< 0.007	< 0.006
Cs-137	< 0.008	< 0.007	< 0.005	< 0.007	< 0.006
Ce-141	< 0.011	< 0.016	< 0.013	< 0.016	< 0.014
Ce-144	< 0.064	< 0.119	< 0.056	< 0.050	< 0.053
Location			T-17 (I)		
Lab Code	TVE- 3046	TVE- 3452	TVE- 3453	TVE- 4122	TVE- 4123
Date Collected	08-26-20	09-30-20	09-30-20	10-28-20	10-28-20
Sample Type	Kale	Cabbage	Kale	Cabbage	Kale
Sr-89	< 0.011	< 0.005	< 0.010	< 0.009	< 0.013
Sr-90	< 0.009	< 0.005	< 0.010	< 0.007	< 0.009
-131	< 0.025	< 0.023	< 0.015 2.74 ± 0.31	< 0.033 1.81 ± 0.24	< 0.037 2.81 ± 0.21
K-40 Nb-95	2.85 ± 0.23 < 0.009	1.73 ± 0.22 < 0.010	< 0.010	< 0.015	< 0.01
Zr-95	< 0.009	< 0.010	< 0.010	< 0.013	< 0.01
Cs-134	< 0.007	< 0.008	< 0.012	< 0.011	< 0.00
Cs-137	< 0.007	< 0.005	< 0.010	< 0.013	< 0.007
Ce-141	< 0.019	< 0.021	< 0.016	< 0.024	< 0.022
Ce-144	< 0.062	< 0.070	< 0.091	< 0.063	< 0.079
Location			T-19 (I)		
			19C		
Lab Code	TVE- 2677	TVE- 3047	TVE- 3454	TVE- 4124	TVE- 4418
Date Collected	07-28-20	08-26-20	09-30-20	10-28-20	11-24-20
Sample Type	Cabbage	Cabbage	Cabbage	Cabbage	Cabbage
Sr-89	< 0.007	< 0.005	< 0.003	< 0.009	< 0.004
Sr-90	< 0.005	< 0.003	< 0.003	< 0.007	< 0.003
-131	< 0.030	< 0.041	< 0.024	< 0.038	< 0.026
<-40	2.85 ± 0.28	3.59 ± 0.32	3.05 ± 0.29	2.21 ± 0.26	2.20 ± 0.27
Nb-95	< 0.007	< 0.018	< 0.013	< 0.012	< 0.00
Zr-95	< 0.018	< 0.017	< 0.021	< 0.018	< 0.01
Cs-134	< 0.010	< 0.013	< 0.011	< 0.010	< 0.01
Cs-137	< 0.008	< 0.013	< 0.012	< 0.008	< 0.01
Ce-141	< 0.024	< 0.030	< 0.022	< 0.020	< 0.02
Ce-144	< 0.055	< 0.080	< 0.083	< 0.087	< 0.120

Table 17. Green leafy vegetables, analyses for strontium-89, strontium-90, iodine-131 and other gamma-emitting isotopes.

Collection: Monthly, in season

Units: pCi/g wet

Location			T-19 (I)		
			19K		
Lab Code	TVE- 2678	TVE- 3048	TVE- 3455	TVE- 4125	TVE- 4419
Date Collected	07-28-20	08-26-20	09-30-20	10-28-20	11-24-20
Sample Type	Kale	Kale	Kale	Kale	Kale
Sr-89	< 0.015	< 0.015	< 0.014	< 0.017	< 0.013
Sr-90	< 0.010	< 0.012	< 0.013	< 0.011	< 0.011
I-131	< 0.034	< 0.050	< 0.027	< 0.040	< 0.038
K-40	4.75 ± 0.35	4.87 ± 0.39	4.53 ± 0.39	2.78 ± 0.33	3.40 ± 0.43
Nb-95	< 0.007	< 0.016	< 0.014	< 0.013	< 0.029
Zr-95	< 0.018	< 0.018	< 0.030	< 0.025	< 0.03
Cs-134	< 0.010	< 0.013	< 0.015	< 0.014	< 0.023
Cs-137	< 0.010	< 0.015	< 0.011	< 0.013	< 0.02
Ce-141	< 0.021	< 0.029	< 0.022	< 0.040	< 0.045
Ce-144	< 0.044	< 0.088	< 0.110	< 0.125	< 0.165
Location		T-K	30		
Lab Code	TVE- 2679	TVE- 3049	TVE- 3456	TVE- 4126	
Date Collected	07-28-20	08-26-20	09-30-20	10-28-20	
Sample Type	Kale	Kale	Kale	Kale	
Sr-89	< 0.030	< 0.022	< 0.013	< 0.017	
Sr-90	< 0.021	< 0.018	< 0.015	< 0.013	
I-131	< 0.036	< 0.021	< 0.014	< 0.058	
K-40	4.52 ± 0.35	5.07 ± 0.30	3.80 ± 0.32	4.01 ± 0.42	
Nb-95	< 0.007	< 0.010	< 0.011	< 0.009	
Zr-95	< 0.025	< 0.012	< 0.020	< 0.035	
Cs-134	< 0.011	< 0.008	< 0.011	< 0.016	
Cs-137	< 0.007	< 0.007	< 0.009	< 0.009	
Ce-141	< 0.023	< 0.017	< 0.017	< 0.038	
Ce-144	< 0.068	< 0.046	< 0.078	< 0.141	
Location		T-37	(C)		
Lab Code	TVE- 2680	TVE- 3050	TVE- 3457	TVE- 4127	
Date Collected	07-29-20	08-25-20	09-30-20	10-27-20	
Sample Type	Cabbage	Cabbage	Cabbage	Cabbage	
Sr-89	< 0.004	< 0.004	< 0.003	< 0.006	
Sr-90	< 0.003	< 0.003	< 0.003	< 0.004	
-131	< 0.034	< 0.028	< 0.020	< 0.050	
<-40	2.25 ± 0.23	1.60 ± 0.21	1.45 ± 0.22	1.79 ± 0.22	
Nb-95	< 0.008	< 0.011	< 0.009	< 0.008	
Zr-95	< 0.011	< 0.013	< 0.018	< 0.017	
Cs-134	< 0.010	< 0.009	< 0.011	< 0.010	
Cs-137	< 0.009	< 0.007	< 0.010	< 0.006	
Ce-141	< 0.017	< 0.022	< 0.017	< 0.021	
Ce-144	< 0.083	< 0.060	< 0.064	< 0.075	

Table 17. Green leafy vegetables, analyses for strontium-89, strontium-90, iodine-131 and other gamma-emitting isotopes.

Collection: Monthly, in season Units: pCi/g wet

Location		T-017 (I)	
Lab Code	TVE- 4415	TVE- 4417	
Date Collected	11-24-20	11-24-20	
Sample Type Sr-89 Sr-90	Cabbage < 0.007 < 0.005	Kale < 0.011 < 0.009	
I-131 K-40 Nb-95 Zr-95 Cs-134 Cs-137 Ce-141	< 0.014 2.20 ± 0.19 < 0.005 < 0.012 < 0.007 < 0.006 < 0.016 < 0.038	< 0.021 3.20 ± 0.30 < 0.016 < 0.016 < 0.014 < 0.011 < 0.029 < 0.079	

Table 18. Fruit, analyses for strontium-89, strontium-90, iodine-131 and other gamma-emitting isotopes.

Collection: Monthly, in season
Units: pCi/g wet

Location	T-8 (I)	T-25 (I)	
Lab Code Date Collected			
Sample Type		NSª	
Sr-89 Sr-90 I-131			
K-40 Nb-95 Zr-95 Cs-134 Cs-137 Ce-141			
Location		T-209 (C)	
Lab Code Date Collected			
Sample Type		NSa	
Sr-89 Sr-90			
I-131			
K-40 Nb-95 Zr-95			
Cs-134 Cs-137			
Ce-141 Ce-144			

^a No sample available

Table 21. Treated surface water samples, analyses for gross beta.

Collection: Monthly composites of weekly grab samples
Units: pCi/L

		<u> </u>			
	T-11 (C)		8	T-22	
Lab Code	Date Collected	Gross Beta	Lab Code	Date Collected	Gross Beta
TSWT- 250	01-28-20	0.9 ± 0.5	TSWT- 251	01-28-20	2.1 ± 0.6
TSWT- 627	03-03-20	1.9 ± 0.6	TSWT- 628	03-03-20	1.2 ± 0.6
TSWT- 910	03-31-20	1.4 ± 0.6	TSWT- 911	03-31-20	1.4 ± 0.6
TSWT- 1411	05-05-20	0.9 ± 0.5	TSWT- 1412	05-05-20	< 0.9
TSWT- 1904	06-02-20	1.0 ± 0.5	TSWT- 1905	06-02-20	1.4 ± 0.6
TSWT- 2177	06-30-20	< 0.9	TSWT- 2178	06-30-20	1.7 ± 0.6
TSWT- 2663	07-28-20	< 0.9	TSWT- 2664	07-28-20	1.1 ± 0.5
TSWT- 3125	09-01-20	1.0 ± 0.5	TSWT- 3126	09-01-20	< 0.8
TSWT- 3458	09-29-20	1.6 ± 0.6	TSWT- 3459	09-29-20	1.2 ± 0.5
TSWT- 4115	10-27-20	< 0.9	TSWT- 4116	10-27-20	< 0.9
TSWT- 4431	11-24-20	1.4 ± 0.6	TSWT- 4432	11-24-20	< 0.8
TSWT- 4712	12-29-20	1.1 ± 0.6	TSWT- 4713	12-29-20	1.4 ± 0.6
	T-143 (QC)				
Lab Code	Date Collected	Gross Beta			
TSWT- 252	01-28-20	1.2 ± 0.6			
TSWT- 629	03-03-20	2.0 ± 0.6			
TSWT- 912	03-31-20	< 0.9			
TSWT- 1413	05-05-20	1.0 ± 0.5			
TSWT- 1906	06-02-20	1.0 ± 0.5			
TSWT- 2179	06-30-20	1.5 ± 0.6			
TSWT- 2665	07-28-20	1.2 ± 0.6			
TSWT- 3127	09-01-20	< 0.9			
TSWT- 3460	09-29-20	1.6 ± 0.6			
TSWT- 4117	10-27-20	< 0.9			
TSWT- 4433	11-24-20	0.9 ± 0.5			
TSWT- 4714	12-29-20	< 0.9			

Treated surface water samples, analyses for tritium, strontium-89, strontium-90 and gamma-emitting isotopes.

Collection: Quarterly composites of weekly grab samples

Units: pCi/L Table 22.

Location		T-1			
Period Lab Code	1st Qtr. TSWT- 951	2nd Qtr. TSWT- 2199	3rd Qtr. TSWT- 3483	4th Qtr. TSWT- 4735	Reg. LLD
H-3	< 330	< 330	< 330	< 330	330
Sr-89 Sr-90	< 0.6 < 0.5	< 0.6 < 0.5	< 0.6 < 0.5	< 0.5 < 0.5	
Mn-54	< 2.8	< 3.2	< 3.7	< 2.3	15
Fe-59	< 5.6	< 4.5	< 4.9	< 5.1	30
Co-58	< 2.2	< 3.5	< 3.1	< 3.7	15
Co-60	< 0.9	< 2.8	< 1.9	< 2.4	15
Zn-65	< 5.0	< 8.9	< 5.4	< 4.7	30
Zr-Nb-95	< 3.6	< 6.6	< 2.4	< 3.5	15
Cs-134	< 3.1	< 4.5	< 3.8	< 3.6	10
Cs-137	< 3.7	< 3.4	< 2.8	< 3.0	18
Ba-La-140	< 3.8	< 6.0	< 2.8	< 2.6	15

Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	
Lab Code	TSWT- 952	TSWT- 2200	TSWT- 3484	TSWT- 4736	Reg. LLD
H-3	< 330	< 330	< 330	< 330	330
Sr-89	< 0.6	< 0.6	< 0.6	< 0.6	
Sr-90	< 0.5	< 0.5	< 0.5	< 0.6	
Mn-54	< 1.7	< 3.1	< 2.7	< 2.4	15
Fe-59	< 5.1	< 7.9	< 2.3	< 2.4	30
Co-58	< 2.5	< 2.8	< 2.8	< 1.6	15
Co-60	< 1.5	< 2.2	< 2.3	< 2.5	15
Zn-65	< 5.2	< 3.6	< 2.5	< 3.1	30
Zr-N b-95	< 3.6	< 3.0	< 3.0	< 2.2	15
Cs-134	< 2.8	< 4.2	< 2.9	< 3.6	10
Cs-137	< 2.8	< 3.2	< 2.9	< 2.3	18
Ba-La-140	< 1.5	< 4.7	< 1.8	< 4.0	15

Table 23. Untreated surface water, analyses for gross beta, tritium and gamma emitting isotopes. Location: T-3

Lab Code Date Collected	TSWU- 253 01-28-20	TSWU- 621 03-03-20	TSWU- 914 03-31-20	TSWU- 1414 05-05-20	Req. LLD
Gross beta	2.1 ± 0.6	2.1 ± 0.6	< 0.9	1.3 ± 0.6	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 2.7	< 2.1	< 3.2	< 2.8	15
Fe-59	< 2.9	< 4.9	< 6.7	< 5.0	30
Co-58	< 2.6	< 2.7	< 1.8	< 1.9	15
Co-60	< 1.5	< 3.1	< 3.0	< 2.0	15
Zn-65	< 3.1	< 4.9	< 7.5	< 2.7	30
Zr-Nb-95	< 3.8	< 3.6	< 5.8	< 2.3	15
Cs-134	< 3.1	< 3.3	< 4.4	< 2.9	10
Cs-137	< 3.0	< 3.8	< 2.9	< 2.0	18
Ba-La-140	< 5.6	< 3.2	< 2.7	< 2.3	15
Lab Code	TSWU- 1907	TSWU- 2180	TSWU- 2666	TSWU- 3128	
Date Collected	06-02-20	06-30-20	07-28-20	09-01-20	Req. LLD
Gross beta	1.3 ± 0.6	3.9 ± 0.7	1.2 ± 0.5	1.6 ± 0.6	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 3.9	< 2.9	< 2.7	< 4.1	15
Fe-59	< 10.5	< 5.2	< 5.4	< 5.4	30
Co-58	< 3.0	< 2.8	< 2.4	< 3.5	15
Co-60	< 3.0	< 3.5	< 2.2	< 4.0	15
Zn-65	< 6.7	< 8.6	< 1.9	< 6.3	30
Zr-Nb-95	< 3.7	< 3.3	< 4.9	< 4.3	15
Cs-134	< 4.6	< 4.3	< 3.2	< 4.4	10
Cs-137	< 4.2	< 5.4	< 2.6	< 3.1	18
Ba-La-140	< 5.1	< 1.5	< 8.1	< 3.3	15
Lab Code	TSWU- 3461	TSWU- 4118	TSWU- 4434	TSWU- 4715	
Date Collected	09-29-20	10-27-20	11-24-20	12-29-20	Req. LLD
Gross beta	1.6 ± 0.6	1.6 ± 0.6	1.2 ± 0.6	1.8 ± 0.6	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 3.2	< 3.2	< 3.4	< 3.2	15
Fe-59	< 1.9	< 5.5	< 7.3	< 3.7	30
Co-58	< 2.6	< 3.3	< 2.7	< 3.5	15
Co-60	< 3.2	< 2.4	< 2.7	< 2.5	15
Zn-65	< 4.5	< 7.0	< 4.2	< 4.8	30
Zr-Nb-95	< 2.0	< 5.0	< 4.9	< 4.4	15
Cs-134	< 3.8	< 3.3	< 4.7	< 3.9	10
Cs-137	< 2.4	< 2.2	< 2.9	< 2.9	18
Ba-La-140	< 3.4	< 6.6	< 7.9	< 7.6	15

Table 23. Untreated surface water, analyses for gross beta, tritium and gamma emitting isotopes. Location: T-11 (C)

Lab Code	TSWU- 255	TSWU- 623	TSWU- 915	TSWU- 1415	
Date Collected	01-28-20	03-03-20	03-31-20	05-05-20	Req. LLD
Gross beta	1.0 ± 0.5	< 1.8	0.9 ± 0.5	1.3 ± 0.6	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 2.6	< 2.5	< 3.1	< 1.9	15
Fe-59	< 6.4	< 3.6	< 3.9	< 1.7	30
Co-58	< 3.4	< 2.1	< 2.9	< 1.4	15
Co-60	< 1.9	< 2.5	< 2.3	< 1.4	15
Zn-65	< 6.5	< 4.1	< 2.1	< 2.5	30
Zr-Nb-95	< 2.6	< 2.5	< 2.5	< 1.5	15
Cs-134	< 3.3	< 3.4	< 2.5	< 2.4	10
Cs-137	< 3.3	< 2.6	< 3.3	< 1.7	18
Ba-La-140	< 4.5	< 1.7	< 2.3	< 1.0	15
Lab Code	TSWU- 1909	TSWU- 2182	TSWU- 2667	TSWU- 3130	
Date Collected	06-02-20	06-30-20	07-28-20	09-01-20	Req. LLD
Gross beta	1.6 ± 0.6	1.8 ± 0.6	1.3 ± 0.5	< 1.7	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 2.6	< 3.3	< 2.9	< 2.2	15
Fe-59	< 5.6	< 5.0	< 8.7	< 8.9	30
Co-58	< 2.6	< 3.7	< 3.0	< 3.3	15
Co-60	< 3.9	< 2.7	< 2.4	< 2.8	15
Zn-65	< 12.2	< 9.4	< 5.7	< 7.2	30
Zr-Nb-95	< 7.6	< 2.5	< 3.3	< 6.1	15
Cs-134	< 5.0	< 4.1	< 3.3	< 4.8	10
Cs-137	< 3.6	< 3.4	< 2.7	< 4.2	18
Ba-La-140	< 8.3	< 3.7	< 4.9	< 4.3	15
Lab Code	TSWU- 3462	TSWU- 4119	TSWU- 4435	TSWU- 4717	
Date Collected	09-29-20	10-27-20	11-24-20	12-29-20	Req. LLD
Gross beta	1.5 ± 0.6	< 0.9	< 0.8	1.4 ± 0.6	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 2.9	< 3.1	< 4.9	< 1.8	15
Fe-59	< 4.5	< 6.6	< 4.1	< 6.4	30
Co-58	< 2.9	< 3.0	< 3.6	< 2.3	15
Co-60	< 2.9	< 1.8	< 1.8	< 2.1	15
Zn-65	< 3.0	< 6.8	< 5.0	< 2.5	30
Zr-Nb-95	< 4.0	< 4.0	< 4.3	< 3.6	15
Cs-134	< 4.2	< 4.2	< 4.1	< 3.7	10
Cs-137	< 4.9	< 3.7	< 3.0	< 3.8	18
Ba-La-140	< 2.2	< 7.5	< 11.4	< 6.3	15

Table 23. Untreated surface water, analyses for gross beta, tritium and gamma emitting isotopes. Location: T-22

Lab Code Date Collected	TSWU- 256 01-28-20	TSWU- 625 03-03-20	TSWU- 916 03-31-20	TSWU- 1416 05-05-20	Reg. LLD
Gross beta	1.6 ± 0.6	1.3 ± 0.6	< 0.9	1.1 ± 0.6	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 1.6	< 3.9	< 3.2	< 3.2	15
Fe-59	< 4.0	< 5.2	< 5.8	< 5.3	30
Co-58	< 3.7	< 2.3	< 4.4	< 2.8	15
Co-60	< 2.2	< 4.5	< 3.4	< 1.8	15
Zn-65	< 3.8	< 8.0	< 6.6	< 6.0	30
Zr-Nb-95	< 3.6	< 4.2	< 6.0	< 3.5	15
Cs-134	< 3.1	< 4.9	< 4.5	< 3.2	10
Cs-137	< 2.7	< 4.1	< 3.8	< 3.8	18
Ba-La-140	< 4.5	< 5.0	< 1.8	< 2.6	15
Lab Code	TSWU- 1911	TSWU- 2183	TSWU- 2668	TSWU- 3132	
Date Collected	06-02-20	06-30-20	07-28-20	09-01-20	Req. LLD
Gross beta	< 0.9	2.1 ± 0.6	1.5 ± 0.6	0.9 ± 0.5	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 5.4	< 2.5	< 4.3	< 2.7	15
Fe-59	< 10.7	< 4.4	< 7.6	< 5.8	30
Co-58	< 3.8	< 3.3	< 3.1	< 2.9	15
Co-60	< 4.0	< 1.9	< 2.0	< 1.3	15
Zn-65	< 14.3	< 4.7	< 6.6	< 2.3	30
Zr-Nb-95	< 8.8	< 2.0	< 4.6	< 5.8	15
Cs-134	< 5.1	< 3.3	< 3.8	< 3.4	10
Cs-137	< 5.9	< 2.3	< 3.8	< 2.6	18
Ba-La-140	< 11.3	< 1.2	< 8.0	< 11.2	15
Lab Code	TSWU- 3463	TSWU- 4120	TSWU- 4436	TSWU- 4720	
Date Collected	09-29-20	10-27-20	11-24-20	12-29-20	Req. LLD
Gross beta	1.8 ± 0.6	1.0 ± 0.5	1.6 ± 0.6	1.5 ± 0.6	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 2.7	< 1.9	< 2.4	< 2.4	15
Fe-59	< 5.5	< 4.5	< 4.1	< 2.9	30
Co-58	< 2.9	< 4.5	< 4.1	< 1.9	15
Co-60	< 3.0	< 3.2	< 2.9	< 1.9	15
Zn-65	< 6.3	< 4.3	< 7.8	< 5.3	30
Zr-Nb-95	< 3.8	< 4.0	< 7.1	< 3.7	15 10
Cs-134	< 3.8 < 2.1	< 4.4 < 2.9	< 3.6 < 3.1	< 2.7 < 1.8	10 18
Cs-137					10

Table 23. Untreated surface water, analyses for gross beta, tritium and gamma emitting isotopes. Location: T-145 (QC)

Lab Code Date Collected	TSWU- 257 01-28-20	TSWU- 626 03-03-20	TSWU- 917 03-31-20	TSWU- 1417 05-05-20	Req. LLD
Gross beta	1.1 ± 0.6	< 1.8	1.9 ± 0.6	1.1 ± 0.5	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 3.2	< 2.2	< 3.2	< 3.0	15
Fe-59	< 4.2	< 5.4	< 4.9	< 6.2	30
Co-58	< 1.7	< 2.0	< 2.9	< 1.6	15
Co-60	< 2.3	< 1.4	< 2.9	< 2.2	15
Zn-65	< 4.2	< 5.2	< 3.7	< 2.9	30
Zr-Nb-95	< 3.1	< 3.9	< 2.2	< 2.6	15
Cs-134	< 3.3	< 3.5	< 3.3	< 3.3	10
Cs-137	< 4.1	< 3.5	< 2.2	< 2.7	18
Ba-La-140	< 8.9	< 3.0	< 2.9	< 2.9	15
Lab Code	TSWU- 1912	TSWU- 2184	TSWU- 2669	TSWU- 3133	
Date Collected	06-02-20	06-30-20	07-28-20	09-01-20	Req. LLD
Gross beta	1.5 ± 0.6	2.2 ± 0.6	1.0 ± 0.5	< 1.8	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 4.1	< 1.4	< 2.2	< 2.9	15
Fe-59	< 7.0	< 2.8	< 5.7	< 8.0	30
Co-58	< 3.9	< 1.4	< 1.7	< 3.8	15
Co-60	< 2.4	< 1.5	< 2.0	< 1.2	15
Zn-65	< 9.6	< 1.2	< 7.6	< 7.1	30
Zr-Nb-95	< 2.9	< 1.4	< 4.5	< 6.9	15
Cs-134	< 4.4	< 2.5	< 3.9	< 4.2	10
Cs-137	< 4.0	< 2.1	< 3.0	< 2.7	18
Ba-La-140	< 5.9	< 1.4	< 12.9	< 7.3	15
Lab Code	TSWU- 3464	TSWU- 4121	TSWU- 4437	TSWU- 4721	
Date Collected	09-29-20	10-27-20	11-24-20	12-29-20	Req. LLD
Gross beta	1.3 ± 0.5	< 0.8	1.0 ± 0.6	1.5 ± 0.6	4.0
H-3	< 330	< 330	< 330	< 330	330
Mn-54	< 4.3	< 2.7	< 2.8	< 4.0	15
Fe-59	< 3.5	< 4.6	< 7.5	< 4.3	30
Co-58	< 2.6	< 3.3	< 2.9	< 2.6	15
Co-60	< 3.1	< 2.0	< 1.5	< 3.0	15
Zn-65	< 7.4	< 4.3	< 5.6	< 5.2	30
Zr-Nb-95	< 2.9	< 5.7	< 7.0	< 3.9	15
Cs-134	< 4.3	< 3.5	< 3.5	< 4.1	10
Cs-137	< 2.9	< 3.0	< 3.0	< 2.5	18
Ba-La-140	< 4.6	< 6.1	< 13.8	< 3.8	15

Table 24. Untreated surface water samples, analyses for strontium-89 and strontium-90. Collection: Quarterly composites of weekly grab samples Units: pCi/L

Location			-3	
Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	TSWU- 982	TSWU- 2204	TSWU- 3526	TSWU- 4767
Sr-89	< 0.5	< 0.5	< 0.4	< 0.5
Sr-90	< 0.4	< 0.5	< 0.4	< 0.5
Location		T-1	1 (C)	
Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	TSWU- 983	TSWU- 2205	TSWU- 3527	TSWU- 4768
Sr-89	< 0.5	< 0.5	< 0.5	< 0.6
Sr-90	< 0.4	< 0.4	< 0.5	< 0.6
Location		T-	.22	
Period	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Lab Code	TSWU- 984	TSWU- 2206	TSWU- 3528	TSWU- 4769
Sr-89	< 0.5	< 0.5	< 0.5	< 0.5
Sr-90	< 0.4	< 0.5	< 0.4	< 0.5

Table 25. Fish samples, analyses for gross beta and gamma-emitting isotopes. Collection: Annually Units: pCi/g wet

Location T-33 (Lake Erie, 1.5 mi. NE of Station)			of Station)	
Lab Code Date Collected	TF- 3040 08-07-20	TF- 3042 08-07-20		
Sample Type	Walleye	Whitefish		
Gross Beta	4.63 ± 0.12	3.43 ± 0.10		
K-40	3.32 ± 0.41	2.13 ± 0.33		
Mn-54	< 0.011	< 0.015		
Fe-59	< 0.075	< 0.068		
Co-58	< 0.025	< 0.020		
Co-60	< 0.013	< 0.010		
Zn-65	< 0.036	< 0.027		
Cs-134	< 0.018	< 0.015		
Cs-137	< 0.014	< 0.016		
Location		T-35		
Lab Code	TF- 3043	TF- 3044		
Lab Code Date Collected	TF- 3043 08-07-20	TF- 3044 08-07-20		
Date Collected	08-07-20	08-07-20		
Date Collected Sample Type Gross Beta	08-07-20 Walleye 4.48 ± 0.12	08-07-20 Whitefish 3.71 ± 0.11		
Date Collected Sample Type Gross Beta K-40	08-07-20 Walleye 4.48 ± 0.12 3.38 ± 0.44	$08-07-20$ Whitefish 3.71 ± 0.11 3.02 ± 0.43		
Date Collected Sample Type Gross Beta	08-07-20 Walleye 4.48 ± 0.12	08-07-20 Whitefish 3.71 ± 0.11		
Date Collected Sample Type Gross Beta K-40 Mn-54	08-07-20 Walleye 4.48 ± 0.12 3.38 ± 0.44 < 0.022	08-07-20 Whitefish 3.71 ± 0.11 3.02 ± 0.43 < 0.023		
Date Collected Sample Type Gross Beta K-40 Mn-54 Fe-59	08-07-20 Walleye 4.48 ± 0.12 3.38 ± 0.44 < 0.022 < 0.094	08-07-20 Whitefish 3.71 ± 0.11 3.02 ± 0.43 < 0.023 < 0.055		
Date Collected Sample Type Gross Beta K-40 Mn-54 Fe-59 Co-58	08-07-20 Walleye 4.48 ± 0.12 3.38 ± 0.44 < 0.022 < 0.094 < 0.030	08-07-20 Whitefish 3.71 ± 0.11 3.02 ± 0.43 < 0.023 < 0.055 < 0.027		
Date Collected Sample Type Gross Beta K-40 Mn-54 Fe-59 Co-58 Co-60	08-07-20 Walleye 4.48 ± 0.12 3.38 ± 0.44 < 0.022 < 0.094 < 0.030 < 0.017	08-07-20 Whitefish 3.71 ± 0.11 3.02 ± 0.43 < 0.023 < 0.055 < 0.027 < 0.015		

Table 26. Shoreline sediment samples, analyses for gamma-emitting isotopes. Collection: Semiannually Units: pCi/g dry

Location	T-	3	T-11
Lab Code	TSS- 1419	TSS- 3632	TSS- 1421 TSS- 3633
Date Collected	04-14-20	10-06-20	04-14-20 10-06-20
K-40	9.44 ± 0.41	9.16 ± 0.45	12.52 ± 0.56
Mn-54	< 0.010	< 0.016	< 0.014 < 0.023
Co-58	< 0.015	< 0.025	< 0.023 < 0.029
Co-60	< 0.010	< 0.015	< 0.012 < 0.011
Cs-134	< 0.008	< 0.015	< 0.010 < 0.019
Cs-137	< 0.011	< 0.016	< 0.011 < 0.017



APPENDIX A

INTERLABORATORY AND INTRALABORATORY COMPARISON PROGRAM RESULTS

NOTE: Appendix A is updated four times a year. The complete appendix is included in March, June, September and December monthly progress reports only.

January, 2020 through December, 2020

Appendix A

Interlaboratory/ Intralaboratory Comparison Program Results

Environmental, Inc., Midwest Laboratory has participated in interlaboratory comparison (crosscheck) programs since the formulation of it's quality control program in December 1971. These programs are operated by agencies which supply environmental type samples containing concentrations of radionuclides known to the issuing agency but not to participant laboratories. The purpose of such a program is to provide an independent check on a laboratory's analytical procedures and to alert it of any possible problems.

Participant laboratories measure the concentration of specified radionuclides and report them to the issuing agency. Several months later, the agency reports the known values to the participant laboratories and specifies control limits. Results consistently higher or lower than the known values or outside the control limits indicate a need to check the instruments or procedures used.

Results in Table A-1 were obtained through participation in the RAD PT Study Proficiency Testing Program administered by Environmental Resource Associates, serving as a replacement for studies conducted previously by the U.S. EPA Environmental Monitoring Systems Laboratory, Las Vegas, Nevada.

Results in Table A-2 were obtained through participation in the New York Department of Health Environmental Laboratory Approval Program (ELAP) PT.

Table A-3 lists results for thermoluminescent dosimeters (TLDs), via irradiation and evaluation by the University of Wisconsin-Madison Radiation Calibration Laboratory at the University of Wisconsin Medical Radiation Research Center.

Table A-4 lists results of the analyses on intralaboratory "spiked" samples for the past twelve months. All samples are prepared using NIST traceable sources. Data for previous years available upon request.

Table A-5 lists results of the analyses on intralaboratory "blank" samples for the past twelve months. Data for previous years available upon request.

Table A-6 lists analytical results from the intralaboratory "duplicate" program for the past twelve months. Acceptance is based on each result being within 25% of the mean of the two results or the two sigma uncertainties of each result overlap.

The results in Table A-7 were obtained through participation in the Mixed Analyte Performance Evaluation Program.

Results in Table A-8 were obtained through participation in the MRAD PT Study Proficiency Testing Program administered by Environmental Resource Associates, serving as a replacement for studies conducted previously by the Environmental Measurement Laboratory Quality Assessment Program (EML).

Attachment A lists the laboratory acceptance criteria for various analyses.

Out-of-limit results are explained directly below the result.

Attachment A

ACCEPTANCE CRITERIA FOR INTRALABORATORY "SPIKED" SAMPLES

Analysis	Ratio of lab result to known value.
Gamma Emitters	0.8 to 1.2
Strontium-89, Strontium-90	0.8 to 1.2
Potassium-40	0.8 to 1.2
Gross alpha	0.5 to 1.5
Gross beta	0.8 to 1.2
Tritium	0.8 to 1.2
Radium-226, Radium-228	0.7 to 1.3
Plutonium	0.8 to 1.2
Iodine-129, Iodine-131	0.8 to 1.2
Nickel-63, Technetium-99, Uranium-238	0.7 to 1.3
Iron-55	0.8 to 1.2
Other Analyses	0.8 to 1.2

TABLE A-1. Interlaboratory Comparison Crosscheck program, Environmental Resource Associates (ERA)^a. RAD study

			Concen	tration (pCi/L)		
Lab Code	Date	Analysis	Laboratory	ERA	Control	
			Result	Result	Limits	Acceptance
RAD-120 Stud	ly					
ERW-49	1/6/2020	Ba-133	60.8 ± 4.4	64.5	53.7 - 71.0	Pass
ERW-49	1/6/2020	Cs-134	22.7 ± 2.8	22.9	17.5 - 25.6	Pass
ERW-49	1/6/2020	Cs-137	225 ± 8	220	198 - 244	Pass
ERW-49	1/6/2020	Co-60	94.6 ± 4.6	91.2	82.1 - 103	Pass
ERW-49	1/6/2020	Zn-65	331 ± 13	298	268 - 348	Pass
ERDW-51	1/6/2020	Gr. Alpha	52.3 ± 2.4	58.9	30.8 - 73.3	Pass
ERDW-51	1/6/2020	Gr. Beta	19.9 ± 1.0	21.0	12.6 - 29.1	Pass
ERDW-53	1/6/2020	Ra-226	12.8 ± 0.5	17.4	12.9 - 19.9	Fail ^b
ERDW-53	1/6/2020	Ra-228	7.13 ± 0.9	7.95	5.06 - 10.1	Pass
ERDW-53	1/6/2020	Uranium	63.8 ± 1.0	68.2	55.7 - 75.0	Pass
ERW-55	1/6/2020	H-3	18,200 ± 408	17,800	15,600 - 19,600	Pass
RAD-121 Stud	ly					
ERDW-1034	4/6/2020	Ra-226	17.8 ± 0.5	18.4	13.7 - 21.0	Pass
ERDW-1034	4/6/2020	Ra-228	6.30 ± 0.86	5.81	3.56 - 7.64	Pass
ERDW-1034	4/6/2020	Uranium	18.7 ± 1.3	18.6	14.9 - 20.9	Pass
RAD-122 Stud	ly					
ERW-2297	7/6/2020	Ba-133	43.8 ± 3.4	58.6	48.6 - 64.6	Fail ^c
ERW-2297	7/6/2020	Cs-134	19.8 ± 2.4	22.3	17.0 - 25.0	Pass
ERW-2297	7/6/2020	Cs-137	73.2 ± 5.4	73.0	65.7 - 83.0	Pass
ERW-2297	7/6/2020	Co-60	90.0 ± 4.0	86.1	77.5 - 97.0	Pass
ERW-2297	7/6/2020	Zn-65	84.9 ± 7.5	82.9	74.6 - 99.6	Pass
ERDW-2299	7/6/2020	Gr. Alpha	40.3 ± 2.2	52.40	27.30 - 65.6	Pass
ERDW-2299	7/6/2020	Gr. Beta	19.9 ± 1.0	24.3	15.0 - 32.3	Pass
ERDW-2303	7/6/2020	Ra-226	8.91 ± 0.43	10.8	8.08 - 12.5	Pass
ERDW-2303	7/6/2020	Ra-228	4.79 ± 0.80	5.42	3.28 - 7.19	Pass
ERDW-2303	7/6/2020	Uranium	27.7 ± 0.9	29.3	23.7 - 32.5	Pass
ERW-2305	7/6/2020	H-3	$21,100 \pm 400$	20,300	17,800 - 22,300	Pass
ERW-2301	7/6/2020	I-131	27.8 ± 1.2	26.1	21.7 - 30.8	Pass

^a Results obtained by Environmental, Inc., Midwest Laboratory as a participant in the crosscheck program for proficiency testing in drinking water conducted by Environmental Resource Associates (ERA).

^b Ra-226 was slightly below the lower limit of the study. The reported value was the mean of two results (12.5 & 13.0). The sample was re-run in duplicate and both results, 15.6 and 13.8 pCi/L, were within the acceptance band.

^c Ba-133 was below the lower acceptable limit of the study. No cause for the failure could be identified. Going forward gamma results will be monitored to see if any trend develops.

TABLE A-2. Interlaboratory Comparison Crosscheck program, New York Department of Health (ELAP)^a.

			Conce	ntration (pCi/L)		
Lab Code	Date	Analysis	Laboratory	Assigned	Acceptance	
			Result	Value	Limits	Acceptance
			Shipme	nt 437R		
NYW-3307	9/15/2020	H - 3	11,500 ± 465	11,208	9760 - 12,300	Pass
NYW-3331	9/15/2020	Gross Alpha	43.7 ± 2.5	64.9	34.0 - 80.4	Pass
NYW-3331	9/15/2020	Gross Beta	11.1 ± 1.1	8.85	3.62 - 17.4	Pass
NYW-3335	9/15/2020	I-131	14.1 ± 1.4	12.6	10.3 - 16.0	Pass
NYW-3333	9/15/2020	Ra-226	2.24 ± 0.27	2.63	2.06 - 3.44	Pass
NYW-3333	9/15/2020	Ra-228	4.91 ± 1.12	5.41	3.27 - 7.18	Pass
NYW-3333	9/15/2020	Uranium	42.8 ± 1.94	37.1	30.1 - 41.0	Fail ^b
NYW-3337	9/15/2020	Co-60	46.4 ± 3.8	42.3	38.1 - 49.2	Pass
NYW-3337	9/15/2020	Zn-65	133 ± 9	116	104 - 138	Pass
NYW-3337	9/15/2020	Ba-133	49.5 ± 4.1	46.4	38.0 - 51.6	Pass
NYW-3337	9/15/2020	Cs-134	32.5 ± 3.1	33.0	26.0 - 36.3	Pass
NYW-3337	9/15/2020	Cs-137	147 ± 7	134	121 - 150	Pass

^a Results obtained by Environmental, Inc., Midwest Laboratory as a participant in the crosscheck program for proficiency testing in drinking water conducted by the New York Department of Health Laboratory Approval Program(NY ELAP).

^b Lab passed all ERA and MAPEP studies for uranium in 2020.(See tables A-1, A-7 and A-8) Uncertainty overlaped upper acceptance limit. Lab will continue to monitor results going forward for trends.

TABLE A-3. Thermoluminescent Dosimetry, (TLD, CaSO₄: Dy Cards).^a

				mrem		
Lab Code	Irradiation		Delivered	Reported ^b	Performance ^c	
	Date	Description	Dose	Dose	Quotient (P)	
Environmenta	al, Inc.	Group 1				
2020-1	10/28/2020	Spike 1	172.0	180.0	0.05	
2020-1	10/28/2020	Spike 2	172.0	174.5	0.01	
2020-1	10/28/2020	Spike 3	172.0	174.3	0.01	
2020-1	10/28/2020	Spike 4	172.0	174.0	0.01	
2020-1	10/28/2020	Spike 5	172.0	167.1	- 0.03	
2020-1	10/28/2020	Spike 6	172.0	161.9	-0.06	
2020-1	10/28/2020	Spike 7	172.0	167.9	-0.02	
2020-1	10/28/2020	Spike 8	172.0	171.0	-0.01	
2020-1	10/28/2020	Spike 9	172.0	170.7	-0.01	
2020-1	10/28/2020	Spike 10	172.0	170.1	-0.01	
2020-1	10/28/2020	Spike 11	172.0	173.8	0.01	
2020-1	10/28/2020	Spike 12	172.0	178.3	0.04	
2020-1	10/28/2020	Spike 13	172.0	178.2	0.04	
2020-1	10/28/2020	Spike 14	172.0	171.9	0.00	
2020-1	10/28/2020	Spike 15	172.0	190.4	0.11	
2020-1	10/28/2020	Spike 16	172.0	170.9	-0.01	
2020-1	10/28/2020	Spike 17	172.0	183.3	0.07	
2020-1	10/28/2020	Spike 18	172.0	170.6	-0.01	
2020-1	10/28/2020	Spike 19	172.0	164.9	-0.04	
2020-1	10/28/2020	Spike 20	172.0	175.7	0.02	
Mean (Spike	1-20)			173.5	0.01	
Standard Deviation (Spike 1-20)				6.5	0.04	

a TLD's were irradiated by the University of Wisconsin-Madison Radiation Calibration Laboratory following ANSI N13.37 protocol from a known air kerma rate. TLD's were read and the results were submitted by Environmental Inc. to the University of Wisconsin-Madison Radiation Calibration Laboratory for comparison to the delivered dose.

b Reported dose was converted from exposure (R) to Air Kerma (cGy) using a conversion of 0.876. Conversion from air kerma to ambient dose equivalent for Cs-137 at the reference dose point H*(10)K_a = 1.20 . mrem/cGy = 1000.

c Performance Quotient (P) is calculated as ((reported dose - conventially true value) ÷ conventially true value) where the conventially true value is the delivered dose.

d Acceptance is achieved when neither the absolute value of the mean of the P values, nor the standard deviation of the P values exceed 0.15.

TABLE A-3. Thermoluminescent Dosimetry, (TLD, CaSO₄: Dy Cards).^a

				mrem		
Lab Code	Irradiation		Delivered	Reported ^b	Performance ^c	
	Date	Description	Dose	Dose	Quotient (P)	
Environment	al, Inc.	Group 2				
2020-2	10/28/2020	Spike 21	114.0	117.3	0.03	
2020-2	10/28/2020	Spike 22	114.0	103.3	- 0.09	
2020-2	10/28/2020	Spike 23	114.0	106.2	- 0.07	
2020-2	10/28/2020	Spike 24	114.0	110.1	-0.03	
2020-2	10/28/2020	Spike 25	114.0	114.9	0.01	
2020-2	10/28/2020	Spike 26	114.0	115.5	0.01	
2020-2	10/28/2020	Spike 27	114.0	110.4	-0.03	
2020-2	10/28/2020	Spike 28	114.0	111.7	-0.02	
2020-2	10/28/2020	Spike 29	114.0	111.3	-0.02	
2020-2	10/28/2020	Spike 30	114.0	113.1	-0.01	
2020-2	10/28/2020	Spike 31	114.0	116.4	0.02	
2020-2	10/28/2020	Spike 32	114.0	111.8	- 0.02	
2020-2	10/28/2020	Spike 33	114.0	112.6	-0.01	
2020-2	10/28/2020	Spike 34	114.0	105.7	-0.07	
2020-2	10/28/2020	Spike 35	114.0	104.5	-0.08	
2020-2	10/28/2020	Spike 36	114.0	103.6	-0.09	
2020-2	10/28/2020	Spike 37	114.0	104.4	-0.08	
2020-2	10/28/2020	Spike 38	114.0	104.5	-0.08	
2020-2	10/28/2020	Spike 39	114.0	106.4	-0.07	
2020-2	10/28/2020	Spike 40	114.0	107.7	-0.06	
Mean (Spike	21-40)			109.6	-0.04	Pa
Standard Deviation (Spike 21-40)				4.6	0.04	Pa

a TLD's were irradiated by the University of Wisconsin-Madison Radiation Calibration Laboratory following ANSI N13.37 protocol from a known air kerma rate. TLD's were read and the results were submitted by Environmental Inc. to the University of Wisconsin-Madison Radiation Calibration Laboratory for comparison to the delivered dose.

b Reported dose was converted from exposure (R) to Air Kerma (cGy) using a conversion of 0.876. Conversion from air kerma to ambient dose equivalent for Cs-137 at the reference dose point $H^*(10)K_a = 1.20$. mrem/cGy = 1000.

c Performance Quotient (P) is calculated as ((reported dose - conventially true value) ÷ conventially true value) where the conventially true value is the delivered dose.

d Acceptance is achieved when neither the absolute value of the mean of the P values, nor the standard deviation of the P values exceed 0.15.

TABLE A-4. Intralaboratory "Spiked" Samples

b				Concentration ^a			
Lab Code ^b	Date	Analysis	Laboratory results	Known	Control		Ratio
			2s, n=1°	Activity	Limits ^d	Acceptance	Lab/Knowr
SPW-481	1/1/2020	Ra-226	10.4 ± 0.3	12.3	8.6 - 16.0	Pass	0.85
SPW-110	1/16/2020	H-3	2,101 ± 154	2,110	1,688 - 2,532	Pass	1.00
W-041620	4/29/2016	Cs-134	35.7 ± 8.8	36.2	29.0 - 43.4	Pass	0.99
W-041620	4/29/2016	Cs-137	75.0 ± 6.6	71.9	57.5 - 86.3	Pass	1.04
W-042020	4/29/2016	Cs-134	40.6 ± 10.2	36.2	29.0 - 43.4	Pass	1.12
W-042020	4/29/2016	Cs-137	71.2 ± 7.0	71.9	57.5 - 86.3	Pass	0.99
SPW-190	1/23/2020	H-3	2,058 ± 153	2,110	1,688 - 2,532	Pass	0.98
SPW-205	1/28/2020	Sr-90	17.6 ± 1.2	17 . 9	14.3 - 21.5	Pass	0.99
SPW-217	1/31/2020	H-3	2,005 ± 152	2,110	1,688 - 2,532	Pass	0.95
SPW-270	2/7/2020	H-3	2,153 ± 157	2,110	1,688 - 2,532	Pass	1.02
SPW-288	2/11/2020	Ra-228	13.1 ± 1.7	14.9	10.4 - 19.3	Pass	0.88
W-021220	4/29/2016	Cs-134	39.3 ± 18.9	36.2	29.0 - 43.4	Pass	1.09
W-021220	4/29/2016	Cs-137	73.9 ± 15.8	71.9	57.5 - 86.3	Pass	1.03
SPW-396	2/14/2020	H-3	2,298 ± 160	2,110	1,688 - 2,532	Pass	1.09
W-022420	4/29/2016	Cs-134	33.4 ± 10.5	36.2	29.0 - 43.4	Pass	0.92
W-022420	4/29/2016	Cs-137	75.6 ± 7.8	71.9	57.5 - 86.3	Pass	1.05
SPW-716	2/26/2020	Ra-226	11.3 ± 0.4	12.3	8.6 - 16.0	Pass	0.92
W-022820	4/29/2016	Cs-134	34.9 ± 11.6	36.2	29.0 - 43.4	Pass	0.96
W-022820	4/29/2016	Cs-137	82.9 ± 8.5	71.9	57.5 - 86.3	Pass	1.15
SPW-532	2/28/2020	H-3	2,054 ± 153	2,110	1,688 - 2,532	Pass	0.97
W-030420	4/29/2016	Cs-134	29.7 ± 9.6	36.2	29.0 - 43.4	Pass	0.82
W-030420	4/29/2016	Cs-137	74.2 ± 7.3	71.9	57.5 - 86.3	Pass	1.03
W-031020	4/29/2016	Cs-134	41.6 ± 17.8	36.2	29.0 - 43.4	Pass	1.15
W-031020	4/29/2016	Cs-137	78.6 ± 14.3	71.9	57.5 - 86.3	Pass	1.09
SPW-711	3/12/2020	H-3	$2,083 \pm 154$	2,110	1,688 - 2,532	Pass	0.99
SPW-825	3/12/2020	Ra-226	12.4 ± 0.4	12.3	8.6 - 16.0	Pass	1.01
SPW-774	3/18/2020	H-3	2,021 ± 151	2,110	1,688 - 2,532	Pass	0.96
W-031820	4/29/2016	Cs-134	29.7 ± 10.6	36.2	29.0 - 43.4	Pass	0.82
W-031820	4/29/2016	Cs-137	75.5 ± 9.2	71.9	57.5 - 86.3	Pass	1.05
W-032520	4/29/2016	Cs-134	36.4 ± 9.2	36.2	29.0 - 43.4	Pass	1.01
W-032520	4/29/2016	Cs-137	74.9 ± 7.0	71.9	57.5 - 86.3	Pass	1.04
SPW-877	3/31/2020	Ra-228	13.0 ± 2.0	14.9	10.4 - 19.3	Pass	0.88
SPW-925	3/23/2020	Ra-226	10.7 ± 0.4	12.3	8.6 - 16.0	Pass	0.87
SPW-859	3/27/2020	H-3	2,065 ± 153	2,110	1,688 - 2,532	Pass	0.98
W-040320	4/29/2016	Cs-134	38.1 ± 10.3	36.2	29.0 - 43.4	Pass	1.05
W-040320	4/29/2016	Cs-137	78.6 ± 7.5	71.9	57.5 - 86.3	Pass	1.09
SPDW-1009	4/8/2020	Gr. Alpha	11.5 ± 0.9	18.7	9.4 - 28.1	Pass	0.61
SPDW-1009	4/8/2020	Gr. Beta	22.0 ± 1.0	26.1	20.9 - 31.3	Pass	0.84
SPW-1033	4/9/2020	H-3	2,041 ± 153	2,110	1,688 - 2,532	Pass	0.97
W-040920	4/29/2016	Cs-134	34.3 ± 9.4	36.2	29.0 - 43.4	Pass	0.95
W-040920	4/29/2016	Cs-137	77.9 ± 8.0	71.9	57.5 - 86.3	Pass	1.08
SPW-1145	4/15/2020	Ra-228	14.3 ± 2.0	14.9	10.4 - 19.3	Pass	0.96
SPW-1186	4/17/2020	H-3	1,972 ± 151	2,110	1,688 - 2,532	Pass	0.93

^a Liquid sample results are reported in pCi/Liter, air filters (pCi/m3), charcoal (pCi/charcoal canister), and solid samples (pCi/kg).

b Laboratory codes: W & SPW (Water), MI (milk), AP (air filter), SO (soil), VE (vegetation), CH (charcoal canister), F (fish), U (urine). CResults are based on single determinations.

d Acceptance criteria are listed in Attachment A of this report.

TABLE A-4. Intralaboratory "Spiked" Samples

			Concentration)°			
Lab Code ^b	Date	Analysis	Laboratory results 2s, n=1°	Known Activity	Control Limits ^d	Acceptance	Ratio Lab/Knowr
SPW-1284	4/24/2020	H-3	2,015 ± 153	2,110	1,688 - 2,532	Pass	0.95
SPW-1745	4/24/2020	Ra-226	11.9 ± 0.3	12.3	8.6 - 16.0	Pass	0.97
W-042220	4/29/2016	Cs-134	33.7 ± 9.2	36.2	29.0 - 43.4	Pass	0.93
W-042220	4/29/2016	Cs-137	74.9 ± 6.6	71.9	57.5 - 86.3	Pass	1.04
W-042420	4/29/2016	Cs-134	33.3 ± 10.8	36.2	29.0 - 43.4	Pass	0.92
W-042420	4/29/2016	Cs-137	73.7 ± 8.5	71.9	57.5 - 86.3	Pass	1.03
W-043020	4/29/2016	Cs-134	33.7 ± 15.7	36.2	29.0 - 43.4	Pass	0.93
W-043020	4/29/2016	Cs-137	72.5 ± 7.1	71.9	57.5 - 86.3	Pass	1.01
SPW-1327	5/1/2020	H-3	2,071 ± 153	2,110	1,688 - 2,532	Pass	0.98
W-050520	4/29/2016	Cs-134	31.1 ± 11.9	36.2	29.0 - 43.4	Pass	0.86
W-050520	4/29/2016	Cs-137	73.2 ± 8.3	71.9	57.5 - 86.3	Pass	1.02
SPW-1394	5/5/2020	Sr-90	18.1 ± 1.1	17.9	14.3 - 21.5	Pass	1.01
W-050720	4/29/2016	Cs-134	39.9 ± 2.0	36.2	29.0 - 43.4	Pass	1.10
W-050720	4/29/2016	Cs-137	75.2 ± 14.3	71.9	57.5 - 86.3	Pass	1.05
SPW-1500	5/18/2020	Ra-228	13.8 ± 1.9	14.9	10.4 - 19.3	Pass	0.93
W-052020	4/29/2016	Cs-134	33.1 ± 1.2	36.2	29.0 - 43.4	Pass	0.91
W-052020	4/29/2016	Cs-137	80.8 ± 8.3	71.9	57.5 - 86.3	Pass	1.12
SPW-1613	5/22/2020	H-3	1,953 ± 149	2,110	1,688 - 2,532	Pass	0.93
W-052620	4/29/2016	Cs-134	31.0 ± 9.2	36.2	29.0 - 43.4	Pass	0.86
W-052620	4/29/2016	Cs-137	74.6 ± 7.5	71.9	57.5 - 86.3	Pass	1.04
SPW-2061	5/21/2020	Ra-226	10.4 ± 0.3	12.3	8.6 - 16.0	Pass	0.85
W-052620	4/29/2016	Cs-134	33.6 ± 12.8	36.2	29.0 - 43.4	Pass	0.93
W-052620	4/29/2016	Cs-137	69.2 ± 7.7	71.9	57.5 - 86.3	Pass	0.96
SPW-1741	5/27/2020	H-3	1,925 ± 150	2,110	1,688 - 2,532	Pass	0.91
SPW-1824	6/3/2020	H-3	1,971 ± 151	2,110	1,688 - 2,532	Pass	0.93
SPW-1853	6/4/2020	H-3	2,027 ± 153	2,110	1,688 - 2,532	Pass	0.96
W-061120	4/29/2016	Cs-134	39.8 ± 21.0	36.2	29.0 - 43.4	Pass	1.10
W-061120	4/29/2016	Cs-137	79.3 ± 13.5	71.9	57.5 - 86.3	Pass	1.10
SPW-1982	6/12/2020	H-3	$2,065 \pm 154$	2,110	1,688 - 2,532	Pass	0.98
SPW-2038	6/18/2020	H-3	2,012 ± 154	2,110	1,688 - 2,532	Pass	0.95
SPW-2116	6/25/2020	H-3	2,051 ± 159	2,110	1,688 - 2,532	Pass	0.97
SPW-2173	7/1/2020	H-3	2,010 ± 154	2,110	1,688 - 2,532	Pass	0.95
SPW-2328	7/10/2020	H-3	1,924 ± 151	2,110	1,688 - 2,532	Pass	0.91
SPW-2458	7/16/2020	H-3	1,932 ± 151	2,110	1,688 - 2,532	Pass	0.92
SPW-2556	7/27/2020	Sr-90	16.8 ± 1.1	17.9	14.3 - 21.5	Pass	0.94
SPW-2558	7/6/2020	Gr. Alpha	29.9 ± 2.1	58.9	29.5 - 88.4	Pass	0.51
SPW-2558	7/6/2020	Gr. Beta	20.0 ± 1.0	21.0	16.8 - 25.2	Pass	0.95
SPW-2640	7/31/2020	H-3	1,984 ± 154	2,110	1,688 - 2,532	Pass	0.94
SPW-2778	8/7/2020	H-3	1,936 ± 151	2,110	1,688 - 2,532	Pass	0.92
SPW-2797	6/22/2020	Ra-226	10.4 ± 0.3	12.3	8.6 - 16.0	Pass	0.85
SPW-2852	8/11/2020	Ra-228	10.2 ± 1.6	12.5	8.7 - 16.2	Pass	0.82

 ^a Liquid sample results are reported in pCi/Liter, air filters (pCi/m3), charcoal (pCi/charcoal canister), and solid samples (pCi/kg).
 ^b Laboratory codes: W & SPW (Water), MI (milk), AP (air filter), SO (soil), VE (vegetation), CH (charcoal canister), F (fish), U (urine).
 ^c Results are based on single determinations.
 ^d Acceptance criteria are listed in Attachment A of this report.

TABLE A-4. Intralaboratory "Spiked" Samples

			Concentration	ı ^a			
Lab Code ^b	Date	Analysis	Laboratory results	Known	Control		Ratio
			2s, n=1 ^c	Activity	Limits ^d	Acceptance	Lab/Known
SPW-2854	8/14/2020	H-3	1,927 ± 153	2,110	1,688 - 2,532	Pass	0.91
SPW-2890	8/4/2020	Ra-226	11.6 ± 0.4	12.3	8.6 - 16.0	Pass	0.95
SPW-3013	8/24/2020	H-3	$2,005 \pm 153$	2,110	1,688 - 2,532	Pass	0.95
SPW-3053	8/28/2020	H-3	1,904 ± 149	2,110	1,688 - 2,532	Pass	0.90
SPW-3123	8/19/2020	Ra-226	10.4 ± 0.3	12.3	8.6 - 16.0	Pass	0.85
SPW-3447	9/3/2020	Ra-226	9.8 ± 0.3	12.3	8.6 - 16.0	Pass	0.80
SPW-3241	9/11/2020	H-3	1,952 ± 154	2,110	1,688 - 2,532	Pass	0.93
SPW-3425	9/23/2020	Ra-228	10.7 ± 1.6	12.3	8.6 - 16.0	Pass	0.87
SPW-3412	9/25/2020	H-3	2,099 ± 155	2,110	1,688 - 2,532	Pass	0.99
SPW-4131	9/30/2020	Ra-226	13.2 ± 0.4	12.3	8.6 - 16.0	Pass	1.07
SPW-3482	10/2/2020	H-3	1,984 ± 154	2,110	1,688 - 2,532	Pass	0.94
SPW-3624	10/9/2020	H-3	1,924 ± 152	2,110	1,688 - 2,532	Pass	0.91
SPW-3794	10/16/2020	H-3	2,109 ± 156	2,110	1,688 - 2,532	Pass	1.00
SPW-3836	10/20/2020	Sr-90	16.8 ± 1.1	17.9	14.3 - 21.5	Pass	0.94
SPW-4043	10/23/2020	H-3	1893.4 ± 148.8	2,110	1,688 - 2,532	Pass	0.90
SPW-4179	10/28/2020	Ra-228	15.4 ± 2.4	12.1	8.5 - 15.7	Pass	1.27
SPW-4422	10/30/2020	Ra-226	12.3 ± 0.3	12.3	8.6 - 16.0	Pass	1.00
SPW-4234	11/11/2020	H-3	2,008 ± 154	2,110	1,688 - 2,532	Pass	0.95
SPW-4634	11/23/2020	Ra-226	11.4 ± 0.3	12.3	8.6 - 16.0	Pass	0.93
SPW-4509	12/4/2020	H-3	1,873 ± 149	2,110	1,688 - 2,532	Pass	0.89
SPW-4625	12/18/2020	H-3	1,940 ± 152	2,110	1,688 - 2,532	Pass	0.92
SPW-4741	12/18/2020	Ra-226	12.5 ± 0.4	12.3	8.6 - 16.0	Pass	1.02

 ^a Liquid sample results are reported in pCi/Liter, air filters (pCi/m3), charcoal (pCi/charcoal canister), and solid samples (pCi/kg).
 ^b Laboratory codes: W & SPW (Water), MI (milk), AP (air filter), SO (soil), VE (vegetation), CH (charcoal canister), F (fish), U (urine).
 ^c Results are based on single determinations.

^d Acceptance criteria are listed in Attachment A of this report.

TABLE A-5. Intralaboratory "Blank" Samples

L.			<u> </u>		Concentration ^a	
Lab Code ^b	Sample	Date	Analysis ^c	Laborator	y results (4.66ஏ)	Acceptance
	Туре			LLD	Activity ^d	Criteria (4.66 σ)
ODW 400	10/-4	4/4/0000	D- 000	0.00	0.40 + 0.00	2
SPW-480	Water	1/1/2020	Ra-226	0.03	0.12 ± 0.02	2
SPW-93	Water	1/7/2020	Gr. Alpha	0.35	0.47 ± 0.29	2
SPW-93	Water	1/7/2020	Gr. Beta	0.74	0.18 ± 0.53	4
SPW-109	Water	1/16/2020	H-3	157	-6 ± 73	200
SPW-154	Water	1/16/2020	I-131	0.47	-0.22 ± 0.21	1
SPW-189	Water	1/23/2020	H-3	158	0 ± 73	200
SPW-204	Water	1/28/2020	Sr-89	0.64	-0.16 ± 0.50	5
SPW-204	Water	1/28/2020	Sr-90	0.54	0.11 ± 0.27	1
SPW-216	Water	1/31/2020	H-3	156	86 ± 78	200
SPW-269	Water	2/7/2020	H - 3	153	79 ± 80	200
SPW-287	Water	2/11/2020	Ra-228	0.81	1.49 ± 0.53	2
SPW-395	Water	2/14/2020	H - 3	154	46 ± 75	200
SPW-463	Water	2/25/2020	I-131	0.16	0.02 ± 0.09	1
SPW-715	Water	2/26/2020	Ra-226	0.01	0.17 ± 0.01	2
SPW-531	Water	2/28/2020	H-3	156	44 ± 75	200
SPW-710	Water	3/12/2020	H-3	157	-16 ± 72	200
SPW-824	Water	3/12/2020	Ra - 226	0.03	0.15 ± 0.03	2
SPW-773	Water	3/18/2020	H-3	151	76 ± 76	200
SPW-876	Water	3/31/2020	Ra-228	0.88	0.57 ± 0.47	2
SPW-924	Water	3/23/2020	Ra-226	0.04	0.18 ± 0.03	2
SPW-1032	Water	4/9/2020	H - 3	157	68 ± 77	200
SPW-1144	Water	4/15/2020	Ra-228	0.89	0.03 ± 0.42	2
SPW-1185	Water	4/17/2020	H-3	158	8 ± 74	200
SPW-1103	Water	4/24/2020	H - 3	156	10 ± 75	200
SPW-1744	Water	4/24/2020	Ra - 226	0.03	-0.01 ± 0.03	2
SPW-1326	Water	5/1/2020	H-3	153	67 ± 75	200
SPW-1393	Water	5/5/2020	Sr-89	0.66	0.11 ± 0.44	5
SPW-1393	Water	5/5/2020	Sr-90	0.63	-0.27 ± 0.26	1
SPW-1499	Water	5/18/2020	Ra-228	0.88	0.03 ± 0.41	2
SPW - 1541	Water	5/19/2020	I-131	0.20	0.00 ± 0.11	1
SPW - 2060	Water	5/21/2020	Ra-226	0.03	-0.01 ± 0.02	2
SPW - 1612	Water	5/22/2020	H - 3	153	91 ± 76	200
SPW-1740	Water	5/27/2020	H-3	158	-26 ± 71	200
SPW-1823	Water	6/3/2020	H-3	157	18 ± 74	200
SPW-1852	Water	6/4/2020	H - 3	159	33 ± 76	200
SPW-1981	Water	6/12/2020	H - 3	149	52 ± 77	200
SPW-2037	Water	6/18/2020	H - 3	156	101 ± 81	200
SPW-2115	Water	6/25/2020	H - 3	158	56 ± 86	200

^a Liquid sample results are reported in pCi/Liter, air filters (pCi/m³), charcoal (pCi/charcoal canister), and solid samples (pCi/g).

b Laboratory codes: W & SPW (Water), MI (milk), AP (air filter), SO (soil), VE (vegetation), CH (charcoal canister), F (fish), U (urine).

^c I-131(G); iodine-131 as analyzed by gamma spectroscopy.

^d Activity reported is a net activity result.

TABLE A-5. Intralaboratory "Blank" Samples

					Concentration ^a	
Lab Code ^b	Sample	Date	Analysis ^c	Laborator	y results (4.66ஏ)	Acceptance
	Type			LLD	Activity ^d	Criteria (4.66 σ
SPW-2172	Water	7/1/2020	H-3	159	-15 ± 75	200
SPW-2327	Water	7/10/2020	H-3	158	50 ± 77	200
SPW-2457	Water	7/16/2020	H - 3	159	- 46 ± 71	200
SPW-2555	Water	7/27/2020	Sr - 89	0.48	0.18 ± 0.40	5
SPW-2555	Water	7/27/2020	Sr - 90	0.54	0.03 ± 0.25	1
SPW-2557	Water	7/6/2020	Gr. Alpha	0.37	0.25 ± 0.28	2
SPW-2557	Water	7/6/2020	Gr. Beta	0.75	-0.23 ± 0.52	4
SPW-2639	Water	7/31/2020	H - 3	158	80 ± 81	200
SPW-2777	Water	8/7/2020	H - 3	157	0 ± 74	200
SPW-2796	Water	6/22/2020	Ra-226	0.03	-0.02 ± 0.03	2
SPW-2851	Water	8/11/2020	Ra-228	0.85	0.44 ± 0.45	2
SPW-2853	Water	8/14/2020	H-3	158	18 ± 77	200
SPW-2880	Water	8/18/2020	I-131	0.42	-0.04 ± 0.22	1
SPW-2889	Water	8/4/2020	Ra-228	0.05	0.13 ± 0.11	2
SPW-3012	Water	8/24/2020	H-3	159	59 ± 77	200
SPW-3052	Water	8/28/2020	H - 3	155	46 ± 75	200
SPW-3122	Water	9/3/2020	Ra - 226	0.03	0.20 ± 0.03	2
SPW-3240	Water	9/11/2020	H-3	161	3 ± 78	200
SPW-3446	Water	9/3/2020	Ra-226	0.01	0.12 ± 0.02	2
SPW-3424	Water	9/23/2020	Ra-228	0.85	0.81 ± 0.48	2
SPW-3411	Water	9/25/2020	H - 3	158	82 ± 78	200
SPW-4130	Water	9/30/2020	Ra-226	0.04	0.01 ± 0.04	2
SPW-3481	Water	10/2/2020	H-3	154	63 ± 80	200
SPW-3623	Water	10/9/2020	H - 3	156	57 ± 81	200
SPW-3793	Water	10/16/2020	H - 3	157	3 ± 73	200
SPW-3835	Water	10/20/2020	Sr - 89	0.55	-0.10 ± 0.43	5
SPW-3835	Water	10/20/2020	Sr - 90	0.59	0.09 ± 0.28	1
SPW-4042	Water	10/23/2020	H - 3	155	-6 ± 72	200
SPW-4178	Water	10/28/2020	Ra-228	1.04	0.33 ± 0.52	2
SPW-4421	Water	10/30/2020	Ra - 226	0.03	0.07 ± 0.03	2
SPW-4233	Water	11/11/2020	H-3	155	78 ± 79	200
SPW-4356	Water	11/20/2020	H - 3	157	52 ± 76	200
SPW-4633	Water	11/23/2020	Ra-226	0.05	0.04 ± 0.11	2
SPW-4508	Water	12/4/2020	H-3	159	-68 ± 69	200
SPW-4624	Water	12/18/2020	H - 3	160	8 ± 77	200
SPW-4740	Water	12/18/2020	Ra-226	0.04	0.02 ± 0.03	2

^a Liquid sample results are reported in pCi/Liter, air filters (pCi/m³), charcoal (pCi/charcoal canister), and solid samples (pCi/g).

b Laboratory codes: W & SPW (Water), MI (milk), AP (air filter), SO (soil), VE (vegetation), CH (charcoal canister), F (fish), U (urine).
c I-131(G); iodine-131 as analyzed by gamma spectroscopy.

^d Activity reported is a net activity result.

TABLE A-6. Intralaboratory "Duplicate" Samples

				Concentration ^a		
b					Averaged	
Lab Code ^b	Date	Analysis	First Result	Second Result	Result	Acceptance
SG-20,21	1/2/2020	Pb-214	2.23 ± 0.12	1.61 ± 0.09	1.92 ± 0.08	Pass
SG-20,21	1/2/2020	Ac-228	1.49 ± 0.20	1.42 ± 0.18	1.46 ± 0.13	Pass
AP-5060,5061	1/3/2020	Be-7	0.052 ± 0.014	0.063 ± 0.012	0.057 ± 0.009	Pass
AP-010720A,B	1/7/2020	Gr. Beta	0.023 ± 0.004	0.022 ± 0.004	0.022 ± 0.003	Pass
WW-72,73	1/7/2020	H - 3	547 ± 101	478 ± 98	513 ± 70	Pass
WW-184,185	1/21/2020	H - 3	265 ± 88	311 ± 90	288 ± 63	Pass
SWU-253,254	1/28/2020	Gr. Beta	1.73 ± 0.58	2.10 ± 0.62	1.92 ± 0.42	Pass
DW-20014,20015	1/29/2020	Ra-228	3.34 ± 0.74	2.25 ± 0.70	2.80 ± 0.51	Pass
DW-20014,20015	1/29/2020	Ra-226	1.05 ± 0.15	0.64 ± 0.24	0.85 ± 0.14	Pass
S-209,210	1/31/2020	K-40	8.28 ± 0.20	7.95 ± 0.42	8.12 ± 0.23	Pass
LW-383,384	1/31/2020	Gr. Beta	1.67 ± 0.58	0.77 ± 0.52	1.22 ± 0.39	Pass
AP-020320A,B	2/3/2020	Gr. Beta	0.021 ± 0.004	0.024 ± 0.004	0.023 ± 0.003	Pass
S-362,363	2/7/2020	Pb - 214	2.39 ± 0.11	2.25 ± 0.10	2.32 ± 0.07	Pass
S-362,363	2/7/2020	Ac-228	1.84 ± 0.18	1.95 ± 0.17	1.90 ± 0.12	Pass
DW-20018,20019	2/7/2020	Gr. Alpha	0.23 ± 0.86	0.37 ± 0.88	0.30 ± 0.62	Pass
DW-20018,20019	2/7/2020	Gr. Beta	0.50 ± 0.56	1.19 ± 0.63	0.85 ± 0.42	Pass
DW-20026,20027	2/7/2020	Ra-226	2.40 ± 0.21	2.11 ± 0.15	2.26 ± 0.13	Pass
DW-20026,20027	2/7/2020	Ra-228	2.60 ± 0.68	1.81 ± 0.57	2.21 ± 0.44	Pass
WW-452,453	2/17/2020	H - 3	583 ± 102	678 ± 106	630 ± 74	Pass
DW-20031,20032	2/25/2020	Gr. Alpha	1.02 ± 0.77	0.80 ± 0.81	0.91 ± 0.56	Pass
DW-20031,20032	2/25/2020	Gr. Beta	1.11 ± 0.59	1.19 ± 0.58	1.15 ± 0.41	Pass
DW-20038,20039	3/3/2020	Ra-226	8.39 ± 0.43	8.78 ± 0.49	8.59 ± 0.33	Pass
DW-20038,20039	3/3/2020	Ra-228	2.81 ± 1.00	2.31 ± 0.86	2.56 ± 0.66	Pass
WW-752,753	3/13/2020	H - 3	435 ± 94	393 ± 92	414 ± 66	Pass
S-868,869	3/13/2020	Pb-214	0.97 ± 0.10	0.99 ± 0.09	0.98 ± 0.07	Pass
S-868,869	3/13/2020	Ac-228	0.93 ± 0.18	1.01 ± 0.23	0.97 ± 0.15	Pass
LW-977,978	3/25/2020	Gr. Beta	0.98 ± 0.53	0.92 ± 0.51	0.95 ± 0.37	Pass
AP-1220,1221	3/31/2020	Be - 7	0.063 ± 0.011	0.062 ± 0.013	0.063 ± 0.009	Pass
SWT-912,913	3/31/2020	Gr. Beta	0.79 ± 0.53	0.49 ± 0.50	0.64 ± 0.37	Pass
AP-956,957	4/2/2020	Be-7	0.189 ± 0.097	0.256 ± 0.130	0.222 ± 0.081	Pass
AP-1110,1111	4/3/2020	Be - 7	0.069 ± 0.012	0.072 ± 0.013	0.071 ± 0.009	Pass
WW-1047,1048	4/7/2020	H - 3	438 ± 96	478 ± 98	458 ± 69	Pass
VE-1022,1023	4/8/2020	Be-7	9.28 ± 0.57	8.00 ± 0.62	8.64 ± 0.42	Pass
VE-1022,1023	4/8/2020	K-40	3.89 ± 0.67	3.94 ± 0.73	3.92 ± 0.49	Pass
S-1199,1200	4/12/2020	Pb-214	0.77 ± 0.07	0.98 ± 0.08	0.88 ± 0.05	Pass
S-1199,1200	4/12/2020	Ac-228	1.09 ± 0.15	1.18 ± 0.17	1.14 ± 0.11	Pass
SS-1419,1420	4/14/2020	K - 40	10.8 ± 0.6	9.4 ± 0.4	10.1 ± 0.4	Pass
AP-1241,1242	4/16/2020	Be-7	0.203 ± 0.113	0.245 ± 0.145	0.224 ± 0.092	Pass
DW-20051,20052	4/23/2020	Ra-228	3.50 ± 0.85	4.60 ± 0.89	4.05 ± 0.62	Pass
DW-20051,20052	4/23/2020	Ra-226	0.80 ± 0.10	0.60 ± 0.10	0.70 ± 0.07	Pass
SS-1310,1311	4/23/2020	K - 40	7,827 ± 492	8,157 ± 505	7,992 ± 352	Pass
LW-1375,1376	4/29/2020	Gr. Beta	1.62 ± 0.59	1.61 ± 0.58	1.62 ± 0.41	Pass

TABLE A-6. Intralaboratory "Duplicate" Samples

				Concentration ^a		
,					Averaged	
Lab Code ^b	Date	Analysis	First Result	Second Result	Result	Acceptance
F-1828,1829	4/29/2020	K - 40	1.35 ± 0.41	0.98 ± 0.33	1.16 ± 0.27	Pass
SG-1398,1399	5/5/2020	Pb - 214	7.51 ± 0.19	8.62 ± 0.17	8.07 ± 0.13	Pass
SG-1398,1399	5/5/2020	Ac-228	6.80 ± 0.31	6.77 ± 0.27	6.79 ± 0.21	Pass
SW-1461,1462	5/7/2020	H - 3	315 ± 88	320 ± 89	317 ± 63	Pass
AP-1610,1611	5/14/2020	Be - 7	0.179 ± 0.101	0.172 ± 0.086	0.176 ± 0.066	Pass
DW-20062,20063	5/19/2020	Gr. Alpha	6.20 ± 1.30	5.00 ± 1.30	5.60 ± 0.92	Pass
DW-20062,20063	5/19/2020	Gr. Beta	6.09 ± 0.77	5.51 ± 0.72	5.80 ± 0.53	Pass
W-1805,1806	5/25/2020	Ra-226	0.42 ± 0.16	0.24 ± 0.17	0.33 ± 0.12	Pass
F-1763,1764	5/26/2020	K-40	2.82 ± 0.47	3.01 ± 0.45	2.92 ± 0.33	Pass
AP-052620A,B	5/26/2020	Gr. Beta	0.014 ± 0.003	0.016 ± 0.003	0.015 ± 0.002	Pass
DW-20066,20067	6/1/2020	Ra-226	0.21 ± 0.09	0.33 ± 0.12	0.27 ± 0.08	Pass
DW-20066,20067	6/1/2020	Ra-228	0.05 ± 0.43	0.03 ± 0.39	0.04 ± 0.29	Pass
P-1849,1850	6/1/2020	H-3	547 ± 102	700 ± 108	624 ± 74	Pass
AP-1893,1894	6/4/2020	Be-7	0.164 ± 0.080	0.251 ± 0.140	0.208 ± 0.081	Pass
SW-1872,1873	6/4/2020	H-3	385 ± 94	400 ± 95	393 ± 67	Pass
AP-052620A,B	6/8/2020	Gr. Beta	0.024 ± 0.004	0.025 ± 0.005	0.024 ± 0.003	Pass
WW-2025,2026	6/16/2020	H-3	318 ± 92	320 ± 92	319 ± 65	Pass
AP-061620A,B	6/16/2020	Gr. Beta	0.017 ± 0.003	0.019 ± 0.003	0.018 ± 0.002	Pass
DW-20078,20079	6/17/2020	Ra-226	0.53 ± 0.11	0.50 ± 0.10	0.52 ± 0.07	Pass
DW-20078,20079	6/17/2020	Ra-228	1.10 ± 0.50	1.11 ± 0.50	1.11 ± 0.35	Pass
AP-2048,2049	6/18/2020	Be - 7	0.222 ± 0.087	0.221 ± 0.092	0.221 ± 0.063	Pass
SW-2157,2158	6/23/2020	H - 3	175 ± 86	235 ± 89	205 ± 62	Pass
AP-062320A,B	6/23/2020	Gr. Beta	0.021 ± 0.003	0.023 ± 0.004	0.022 ± 0.003	Pass
AP-2136,2137	6/25/2020	Be - 7	0.242 ± 0.099	0.343 ± 0.115	0.292 ± 0.076	Pass
AP-2366,2367	6/30/2020	Be - 7	0.144 ± 0.018	0.177 ± 0.019	0.161 ± 0.013	Pass
SWU-2180,2181	6/30/2020	H-3	105 ± 82	199 ± 87	152 ± 60	Pass
AP-2473,2474	7/1/2020	Be - 7	0.079 ± 0.011	0.089 ± 0.012	0.084 ± 0.008	Pass
AP-2473,2474	7/1/2020	K-40	0.010 ± 0.006	0.015 ± 0.009	0.013 ± 0.005	Pass
AP-2408,2409	7/2/2020	Be-7	0.084 ± 0.016	0.085 ± 0.014	0.085 ± 0.011	Pass
P-2264,2265	7/6/2020	H-3	149 ± 83	144 ± 83	147 ± 59	Pass
DW-20091,20092	7/10/2020	Ra-226	0.77 ± 0.17	0.69 ± 0.24	0.73 ± 0.15	Pass
DW-20091,20092	7/10/2020	Ra-228	0.61 ± 0.56	0.59 ± 0.55	0.60 ± 0.39	Pass
SW-2450,2451	7/14/2020	H - 3	410 ± 96	487 ± 99	448 ± 69	Pass
VE-2494,2495	7/16/2020	K-40	1.68 ± 0.25	2.08 ± 0.26	1.88 ± 0.18	Pass
DW-20102,20103	7/17/2020	Gr. Alpha	1.98 ± 0.82	2.65 ± 0.82	2.32 ± 0.58	Pass
DW-20102,20103	7/17/2020	Ra - 226	0.84 ± 0.20	0.89 ± 0.20	0.87 ± 0.14	Pass
DW-20102,20103	7/17/2020	Ra-228	1.24 ± 0.67	1.57 ± 0.70	1.41 ± 0.48	Pass
WW-2604,2605	7/20/2020	H - 3	35,989 ± 576	36,039 ± 577	36,014 ± 408	Pass
SWU-2669,2670	7/28/2020	H - 3	103 ± 80	101 ± 80	102 ± 57	Pass
SWU-2669,2670	7/28/2020	Gr. Beta	1.49 ± 0.56	1.05 ± 0.51	1.27 ± 0.38	Pass
S-2711,2712	7/29/2020	K-40	17.4 ± 0.9	19.6 ± 1.0	18.5 ± 0.7	Pass

TABLE A-6. Intralaboratory "Duplicate" Samples

				Concentration ^a		
					Averaged	
Lab Code ^b	Date	Ana l ysis	First Result	Second Result	Result	Acceptance
WW-2799,2800	8/4/2020	H-3	471 ± 100	437 ± 99	454 ± 70	Pass
WW-2933,2934	8/4/2020	H - 3	316 ± 91	300 ± 90	308 ± 64	Pass
S-2774,2775	8/4/2020	K - 40	5.9 ± 0.9	6.1 ± 0.8	6.0 ± 0.6	Pass
WW-2912,2913	8/5/2020	H - 3	176 ± 84	226 ± 87	201 ± 60	Pass
F-3040,3041	8/7/2020	Gr. Beta	4.55 ± 0.12	4.63 ± 0.12	4.59 ± 0.09	Pass
F-3040,3041	8/7/2020	K - 40	3.58 ± 0.42	3.32 ± 0.41	3.45 ± 0.29	Pass
WW-2867,2868	8/12/2020	H - 3	169 ± 85	219 ± 86	194 ± 61	Pass
VE-2842,2843	8/12/2020	K - 40	3.18 ± 0.30	3.14 ± 0.37	3.16 ± 0.24	Pass
F-2891,2892	8/14/2020	K - 40	2.98 ± 0.39	2.82 ± 0.35	2.90 ± 0.26	Pass
VE-2954,2955	8/20/2020	Be-7	0.222 ± 0.106	0.283 ± 0.166	0.252 ± 0.099	Pass
VE-2954,2955	8/20/2020	K - 40	4.09 ± 0.37	3.75 ± 0.38	3.92 ± 0.27	Pass
DW-20126,20127	8/25/2020	Ra-226	0.90 ± 0.14	0.73 ± 0.12	0.82 ± 0.09	Pass
DW-20126,20127	8/25/2020	Ra-228	1.55 ± 0.52	2.30 ± 0.58	1.93 ± 0.39	Pass
LW-3154,3155	8/26/2020	Gr. Beta	1.43 ± 0.60	1.33 ± 0.55	1.38 ± 0.41	Pass
VE-3084,3085	8/28/2020	Be-7	0.52 ± 0.12	0.48 ± 0.07	0.50 ± 0.07	Pass
VE-3084,3085	8/28/2020	K - 40	3.87 ± 0.16	3.36 ± 0.31	3.62 ± 0.17	Pass
SWU-3133,3134	9/1/2020	H - 3	107 ± 84	116 ± 84	111 ± 59	Pass
VE-3208,3209	9/8/2020	K - 40	5.99 ± 0.43	5.85 ± 0.35	5.92 ± 0.28	Pass
VE-3187,3188	9/8/2020	Be-7	0.50 ± 0.17	0.61 ± 0.23	0.55 ± 0.14	Pass
VE-3187,3188	9/8/2020	K - 40	4.64 ± 0.54	4.97 ± 0.45	4.81 ± 0.35	Pass
WW-3427,3428	9/10/2020	H - 3	2,321 ± 163	2,323 ± 164	2,322 ± 116	Pass
DW-21033,21034	9/14/2020	Gr. Alpha	1.27 ± 0.79	0.94 ± 0.75	1.11 ± 0.54	Pass
DW-21033,21034	9/14/2020	Gr. Beta	1.02 ± 0.60	1.01 ± 0.59	1.02 ± 0.42	Pass
SG-3265,3266	9/14/2020	Pb-214	11.8 ± 0.49	10.4 ± 0.57	11.1 ± 0.38	Pass
SG-3265,3266	9/14/2020	Ac-228	18.8 ± 1.27	17.3 ± 1.36	18.0 ± 0.93	Pass
SG-3265,3266	9/14/2020	Gr. Alpha	28.0 ± 4.6	33.5 ± 4.9	30.8 ± 3.4	Pass
SG-3265,3266	9/14/2020	Gr. Beta	42.1 ± 2.8	44.5 ± 3.0	43.3 ± 2.1	Pass
VE-3315,3316	9/15/2020	Be-7	0.25 ± 0.10	0.28 ± 0.16	0.27 ± 0.09	Pass
VE-3315,3316	9/15/2020	K - 40	5.48 ± 0.34	5.16 ± 0.36	5.32 ± 0.25	Pass
WW-3339,3340	9/16/2020	H - 3	196 ± 85	199 ± 85	198 ± 60	Pass
CF-3381,3382	9/21/2020	Be - 7	0.20 ± 0.10	0.19 ± 0.11	0.20 ± 0.07	Pass
CF-3381,3382	9/21/2020	K - 40	5.94 ± 0.30	5.72 ± 0.29	5.83 ± 0.21	Pass
AP-092120A,B	9/21/2020	Gr. Beta	0.043 ± 0.005	0.041 ± 0.005	0.042 ± 0.004	Pass
F-3706,3707	9/26/2020	K - 40	1.86 ± 0.35	1.83 ± 0.39	1.84 ± 0.26	Pass
AP-092820A,B	9/28/2020	Gr. Beta	0.021 ± 0.004	0.023 ± 0.004	0.022 ± 0.003	Pass
XW-3620,3621	9/30/2020	Sr - 89	11,760 ± 140	12,487 ± 133	12,124 ± 97	Pass
XW - 3620,3621	9/30/2020	Sr - 90	2,287 ± 45	2,831 ± 50	$2,559 \pm 34$	Pass
XW-3620,3621	9/30/2020	Fe - 55	1,623 ± 462	1,833 ± 474	1,728 ± 331	Pass

TABLE A-6. Intralaboratory "Duplicate" Samples

				Concentration ^a		
					Averaged	
Lab Code ^b	Date	Analysis	First Resu l t	Second Result	Result	Acceptance
SW-3515,3516	10/1/2020	H - 3	154 ± 86	111 ± 84	133 ± 60	Pass
DW-20141,20142	10/1/2020	Ra-226	1.34 ± 0.16	1.39 ± 0.16	1.37 ± 0.11	Pass
DW-20141,20142	10/1/2020	Ra-228	1.74 ± 0.62	2.09 ± 0.64	1.92 ± 0.45	Pass
SW-3536,3537	10/5/2020	H - 3	376 ± 97	378 ± 97	377 ± 68	Pass
WW-3727,3728	10/8/2020	H - 3	152 ± 82	190 ± 84	171 ± 59	Pass
VE-3748,3749	10/12/2020	K - 40	3.07 ± 0.25	2.88 ± 0.26	2.98 ± 0.18	Pass
VE-3769,3770	10/12/2020	Be - 7	0.80 ± 0.31	0.51 ± 0.15	0.66 ± 0.17	Pass
VE-3769,3770	10/12/2020	K-40	5.69 ± 0.61	5.79 ± 0.39	5.74 ± 0.36	Pass
WW-4092,4093	10/13/2020	H - 3	6,484 ± 252	6,275 ± 248	6,380 ± 177	Pass
WW-3838,3839	10/14/2020	H-3	313 ± 90	263 ± 88	288 ± 63	Pass
WW-4394,4395	11/3/2020	H - 3	161 ± 83	199 ± 85	180 ± 60	Pass
WW-4587,4588	11/4/2020	H - 3	6,468 ± 252	6,638 ± 255	6,553 ± 179	Pass
WW-4524,4525	11/5/2020	H - 3	160 ± 86	131 ± 84	145 ± 60	Pass
VE-4415,4416	11/24/2020	Be - 7	0.28 ± 0.08	0.22 ± 0.07	0.25 ± 0.05	Pass
VE-4415,4416	11/24/2020	K-40	2.25 ± 0.21	2.20 ± 0.19	2.23 ± 0.14	Pass
AP-4845,4846	12/31/2020	Be - 7	0.07 ± 0.01	0.06 ± 0.02	0.06 ± 0.01	Pass

Note: Duplicate analyses are performed on every twentieth sample received. Results are not listed for those analyses with activities that measure below the LLD.

^a Results are reported in units of pCi/L, except for air filters (pCi/Filter or pCi/m3), food products, vegetation, soil and sediment (pCi/g).

AP (Air Particulate), AV (Aquatic Vegetation), BS (Bottom Sediment), CF (Cattle Feed), CH (Charcoal Canister), DW (Drinking Water), E (Egg), F (Fish), G (Grass), LW (Lake Water), MI (Milk), P (Precipitation), PM (Powdered Milk), S (Solid), SG (Sludge), SO (Soil), SS (Shoreline Sediment), SW (Surface Water), SWT (Surface Water Treated), SWU (Surface Water Untreated), VE (Vegetation), W (Water), WW (Well Water).

TABLE A-7. Department of Energy's Mixed Analyte Performance Evaluation Program (MAPEP).

				Concentration ^a		
	Reference			Known	Control	
Lab Code ^b	Date	Analysis	Laboratory result	Activity	Limits ^c	Acceptance
MAAP-664	2/1/2020	Gross Alpha	2.26 ± 0.14	1.24	0.37 - 2.11	Fail ^d
MAAP-664	2/1/2020	Gross Beta	2.40 ± 0.07	2.00	1.00 - 3.00	Pass
MAW-536	2/1/2020	Gross Alpha	0.86 ± 0.06	1.03	0.31 - 1.75	Pass
MAW-536	2/1/2020	Gross Beta	3.79 ± 0.07	4.24	2.12 - 6.36	Pass
MASO-662	2/1/2020	Cs-134	955 ± 9	1114	780 - 1448	Pass
MASO-662	2/1/2020	Cs-137	1089 ± 12	1020	714 - 1326	Pass
MASO-662	2/1/2020	Co-57	1106 ± 8	1071	750 - 1392	Pass
MASO-662	2/1/2020	Co-60	0.33 ± 1.26	0	NA ^c	Pass
MASO-662	2/1/2020	Mn-54	1022 ± 27	945	662 - 1229	Pass
MASO-662	2/1/2020	Zn-65	842 ± 17	751	526 - 976	Pass
MASO-662	2/1/2020	K - 40	710 ± 42	625	438 - 813	Pass
MAW-534	2/1/2020	I-129	0.81 ± 0.09	1.001	0.701 - 1.301	Pass
MAW-599	2/1/2020	H-3	202 ± 9	196	137 - 255	Pass
MAW-599	2/1/2020	Am-241	0.41 ± 0.09	0.547	0.383 - 0.711	Pass
MAW-599	2/1/2020	Cs-134	16.1 ± 0.3	18.5	13.0 - 24.1	Pass
MAW-599	2/1/2020	Cs-137	11.5 ± 0.4	11.3	7.9 - 14.7	Pass
MAW-599	2/1/2020	Co-57	20.0 ± 0.30	19.7	13.8 - 25.6	Pass
MAW-599	2/1/2020	Co-60	10.6 ± 0.2	10.6	7.4 - 13.8	Pass
MAW-599	2/1/2020	Mn-54	20.5 ± 0.4	19.6	13.7 - 25.5	Pass
MAW-599	2/1/2020	Zn-65	24.1 ± 0.70	22.2	15.5 - 28.9	Pass
MAW-599	2/1/2020	K - 40	0.57 ± 1.54	0	NA ^c	Pass
MAW-599	2/1/2020	Fe-55	13.3 ± 12.2	17.8	12.5 - 23.1	Pass
MAW-599	2/1/2020	Ni-63	9.72 ± 0.43	11.1	7.8 - 14.4	Pass
MAW-599	2/1/2020	Sr-90	0.07 ± 0.18	0	NA ^c	Pass
MAW-599	2/1/2020	Tc-99	3.41 ± 0.31	3.63	2.54 - 4.72	Pass
MAW-599	2/1/2020	Ra-226	0.56 ± 0.06	0.365	0.256 - 0.475	Fail ^e
MAW-599	2/1/2020	Pu-238	0.69 ± 0.08	0.94	0.66 - 1.22	Pass
MAW-599	2/1/2020	Pu-239/240	0.48 ± 0.07	0.737	0.516 - 0.958	Fail ^f
MAW-599	2/1/2020	U-234	1.04 ± 0.08	0.97	0.68 - 1.26	Pass
MAW-599	2/1/2020	U-238	1.02 ± 0.08	0.95	0.67 - 1.24	Pass

TABLE A-7. Department of Energy's Mixed Analyte Performance Evaluation Program (MAPEP).

				Concentration ^a		
	Reference			Known	Control	
Lab Code ^b	Date	Analysis	Laboratory result	Activity	Limits ^c	Acceptance
MAVE-668	2/1/2020	Cs-134	3.51 ± 0.22	3.82	2.67 - 4.97	Pass
MAVE-668	2/1/2020	Cs-137	3.04 ± 0.18	2.77	1.94 - 3.60	Pass
MAVE-668	2/1/2020	Co - 57	0.02 ± 0.03	0	NA ^c	Pass
MAVE-668	2/1/2020	Co-60	2.92 ± 0.08	2.79	1.95 - 3.63	Pass
MAVE-668	2/1/2020	Mn-54	5.16 ± 0.14	4.58	3.21 - 5.95	Pass
MAVE-668	2/1/2020	Zn-65	4.36 ± 0.16	3.79	2.65 - 4.93	Pass
MAW-689	2/1/2020	Ra-226	172 ± 1	189	132 - 246	Pass
MAW-689	2/1/2020	Ra-228	65 ± 1	75	53 - 98	Pass
MAAP-3181	8/1/2020	Gross Alpha	0.45 ± 0.06	0.528	0.158 - 0.898	Pass
MAAP-3181	8/1/2020	Gross Beta	0.97 ± 0.04	0.915	0.458 - 1.373	Pass
MADW-3101	8/1/2020	Gross Alpha	0.57 ± 0.04	0.62	0.19 - 1.05	Pass
MADW-3101	8/1/2020	Gross Beta	0.75 ± 0.04	0.83	0.42 - 1.25	Pass
MASO-3179	8/1/2020	Cs-134	599 ± 7	710	497 - 923	Pass
MASO-3179	8/1/2020	Cs-137	3.33 ± 4.81	0	NA ^c	Pass
MASO-3179	8/1/2020	Co-57	1145 ± 8	1100	770 - 1430	Pass
MASO-3179	8/1/2020	Co-60	965 ± 9	1000	700 - 1300	Pass
MASO-3179	8/1/2020	Mn-54	651 ± 11	610	427 - 793	Pass
MASO-3179	8/1/2020	Zn-65	524 ± 14	470	329 - 611	Pass
MASO-3179	8/1/2020	K - 40	684 ± 58	622	435 - 809	Pass
MAW - 3175	8/1/2020	Cs-134	13.9 ± 0.3	15.2	10.6 - 19.8	Pass
MAW - 3175	8/1/2020	Cs-137	15.4 ± 0.4	14.3	10.0 - 18.6	Pass
MAW-3175	8/1/2020	Co-57	0.10 ± 0.16	0	NA ^c	Pass
MAW - 3175	8/1/2020	Co-60	12.5 ± 0.3	12.2	8.5 - 15.9	Pass
MAW - 3175	8/1/2020	Mn-54	0.07 ± 0.17	0	NA ^c	Pass
MAW - 3175	8/1/2020	Zn-65	18.3 ± 0.6	16.9	11.8 - 22.0	Pass
MAW-3175	8/1/2020	K-40	1.06 ± 1.65	0	NA ^c	Pass

TABLE A-7. Department of Energy's Mixed Analyte Performance Evaluation Program (MAPEP).

			I	Concentration ⁶	ì	
	Reference			Known	Control	
Lab Code ^b	Date	Analysis	Laboratory result	Activity	Limits ^c	Acceptance
MAAP-3177	8/1/2020	Cs-134	1.28 ± 0.05	1.83	1.28 - 2.38	Fail ^g
MAAP-3177	8/1/2020	Cs-137	0.981 ± 0.068	0.996	0.697 - 1.295	Pass
MAAP-3177	8/1/2020	Co-57	0.020 ± 0.027	0	NA ^c	Pass
MAAP-3177	8/1/2020	Co-60	1.57 ± 0.06	1.73	1.21 - 2.25	Pass
MAAP-3177	8/1/2020	Mn-54	0.751 ± 0.077	1.400	0.98 - 1.82	Fai l ^h
MAAP-3177	8/1/2020	Zn-65	2.07 ± 0.15	2.00	1.40 - 2.60	Pass
MAVE-3185	8/1/2020	Cs-134	4.73 ± 0.10	4.94	3.46 - 6.42	Pass
MAVE-3185	8/1/2020	Cs-137	0.03 ± 0.06	0	NA ^c	Pass
MAVE-3185	8/1/2020	Co-57	7.83 ± 0.12	6.67	4.67 - 8.67	Pass
MAVE-3185	8/1/2020	Co-60	4.41 ± 0.10	4.13	2.89 - 5.37	Pass
MAVE-3185	8/1/2020	Mn-54	6.52 ± 0.18	5.84	4.09 - 7.59	Pass
MAVE-3185	8/1/2020	Zn-65	7.26 ± 0.19	6.38	4.47 - 8.29	Pass

^a Results are reported in units of Bq/kg (soil), Bq/L (water) or Bq/total sample (filters, vegetation).

The subsequent MAPEP study result was acceptable. See Lab code MAAP-3101 (reference date 8/1/2020).

b Laboratory codes as follows: MAW (water), MADW (water), MAAP (air filter), MASO (soil) and MAVE (vegetation).

^c MAPEP results are presented as the known values and expected laboratory precision (1 sigma, 1 determination) and control limits as defined by the MAPEP. A known value of "zero" indicates an analysis was included in the testing series as a "false positive". MAPEP does not provide control limits.

^d The lab utilized a MAPEP specific gross alpha/beta filter calibration as discussed in the MAPEP test instructions for MAAP-664. Using the MAPEP specific calibration for MAAP-664 caused the bias to shift from low to high.

^e An investigation of the Radium-226 failure was inconclusive. Subsequent Ra-226 PT analyses were satisifactory. See ERA RAD-121 and RAD-122 studies Table A-1 and NY ELAP shipment 437R Table A-2.

^f Analysis was repeated in duplicate with acceptable results: Pu-238 (0.97 & 1.10 Bq/Kg); Pu-239 (0.83 & 0.83 Bq/Kg). The cause of the failure could not be determined.

^g Lab result barely missed lower contol limit.

 $^{^{\}rm h}$ A data transcription error resulted in an erroneous reported value. The actual result (1.36 \pm 0.08 Bq/L) passes.

TABLE A-8. Interlaboratory Comparison Crosscheck Program, Environmental Resource Associates (ERA)^a.

MRAD-30 Study

			IVIII (ID I	o Olday		
			Concentratio	n ^a		
Lab Code ^b	Date	Analysis	Laboratory Result	ERA Value ^c	Contro l Limits ^d	Acceptance
ERAP-769	3/16/2020	Am-241	71.0	74.7	53.3 - 99.6	Pass
ERAP-769	3/16/2020	Cs-134	1210	1390	902 - 1700	Pass
ERAP-769	3/16/2020	Cs-137	393	351	288 - 460	Pass
ERAP-769	3/16/2020	Co-60	450.0	422.0	359.0 - 536	Pass
ERAP-769	3/16/2020	Fe-55	1200	1260	460 - 2010	Pass
ERAP-769	3/16/2020	Mn-54	< 2.4	< 50.0	0.00 - 50.0	Pass
ERAP-769	3/16/2020	Zn-65	856	694	569 - 1060	Pass
ERAP-769	3/16/2020	Pu-238	31.4	28.0	21.1 - 34.4	Pass
ERAP-769	3/16/2020	Pu-239	43.9	40.1	30.0 - 48.4	Pass
ERAP-769	3/16/2020	Sr - 90	190	175	111 - 238	Pass
ERAP-769	3/16/2020	U - 234	56.7	56.2	41.7 - 65.9	Pass
ERAP-769	3/16/2020	U - 238	57.0	55.7	42.1 - 66.5	Pass
ERAP-771	3/16/2020	Gross Alpha	33.4	29.3	15.3 - 48.3	Pass
ERAP-771	3/16/2020	Gross Beta	68.3	66.4	40.3 - 100	Pass

^a Results obtained by Environmental, Inc., Midwest Laboratory (EIML) as a participant in the crosscheck program for proficiency testing administered by Environmental Resource Associates, serving as a replacement for studies conducted previously by the Environmental Measurements Laboratory Quality Assessment Program (EML).

^b Laboratory code ERAP (air filter). Results are reported in units of (pCi/Filter).

^c The ERA Assigned values for the air filter standards are equal to 100% of the parameter present in the standard as determined by the gravimetric and/or volumetric measurements made during standard preparation as applicable.

The acceptance limits are established per the guidelines contained in the Department of Energy (DOE) report EML-564, Analysis of Environmental Measurements Laboratory (EML) Quality Assessment Program (QAP) Data Determination of Operational Criteria and Control Limits for Performance Evaluation Purposes or ERA's SOP for the generation of Performance Acceptance Limits.

APPENDIX B

DATA REPORTING CONVENTIONS

Data Reporting Conventions

1.0. All activities, except gross alpha and gross beta, are decay corrected to collection time or the end of the collection period.

2.0. Single Measurements

Each single measurement is reported as follows:

X±S

where:

x = value of the measurement:

 $s = 2\sigma$ counting uncertainty (corresponding to the 95% confidence level).

In cases where the activity is less than the lower limit of detection L, it is reported as: < L, where L = the lower limit of detection based on 4.66 σ uncertainty for a background sample.

3.0. Duplicate analyses

If duplicate analyses are reported, the convention is as follows.

3.1 Individual results: For two analysis results; $x_1 \pm s_1$ and $x_2 \pm s_2$

Reported result: $x \pm s$; where $x = (1/2)(x_1 + x_2)$ and $s = (1/2)\sqrt{s_1^2 + s_2^2}$

3.2. Individual results: $< L_1 < L_2$ Reported result: < L, where L = lower of L_1 and L_2

3.3. <u>Individual results:</u> x ± s, < L <u>Reported result:</u> x ± s if x ≥ L; < L otherwise.

4.0. Computation of Averages and Standard Deviations

4.1 Averages and standard deviations listed in the tables are computed from all of the individual measurements over the period averaged; for example, an annual standard deviation would not be the average of quarterly standard deviations. The average x_1, x_2, \dots, x_n are defined as follows:

$$\bar{x} = \frac{1}{n} \sum x$$
 $s = \sqrt{\frac{\sum (\bar{x} - \bar{x})^2}{n-1}}$

- 4.2 Values below the highest lower limit of detection are not included in the average.
- 4.3 If all values in the averaging group are less than the highest LLD, the highest LLD is reported.
- 4.4 If all but one of the values are less than the highest LLD, the single value x and associated two sigma error is reported.
- 4.5 In rounding off, the following rules are followed:
 - 4.5.1. If the number following those to be retained is less than 5, the number is dropped, and the retained numbers are kept unchanged. As an example, 11.443 is rounded off to 11.44.
 - 4.5.2. If the number following those to be retained is equal to or greater than 5, the number is dropped and the last retained number is raised by 1. As an example, 11,445 is rounded off to 11,45.



 Mr. Ken Filar
 LABORATORY REPORT NO.:
 8003-100-657

 FirstEnergy Corporation
 DATE:
 02-05-21

 Mail Stop 1041
 SAMPLES RECEIVED:
 12-31-20

 5501 North State Route 2
 PURCHASE ORDER NO.:
 55103447

 Oak Harbor, Ohio 43449
 Oak Harbor, Ohio 43449
 55103447

Below are results of the analyses for gross beta, tritium and gamma emitting isotopes on two untreated water samples.

Location	T-4P	T-14
Lab Code	TSWU- 4716	TSWU- 4719
Date Collected	12-29-20	12-29-20
	Concentra	ation (pCi/L)
Gross beta	5.0 ± 0.9	1.8 ± 0.7
H-3	< 330	< 330
Mn-54	< 2.4	< 3.1
Fe-59	< 3.6	< 3.6
Co-58	< 4.0	< 1.4
Co-60	< 2.7	< 1.8
Zn-65	< 3.3	< 2.7
Zr-Nb-95	< 2.9	< 4.2
Cs-134	< 3.8	< 3.2
Cs-137	< 3.2	< 3.3
Ba-La-140	< 4.4	< 4.0

The error given is the probable counting error at the 95% confidence level.

A. Szal Program Coordinator

Anna dul 2-5-2011

APPROVED BY

A. Banavali, PhD.
Laboratory Manager



Mr. Ken Filar FirstEnergy Corporation Mail Stop 1041 5501 North State Route 2 Oak Harbor, Ohio 43449 LABORATORY REPORT NO.: 8003-100-658

DATE: 2/5/2021 SAMPLES RECEIVED: 1/22/2021 PURCHASE ORDER NO.: 55117515

Enclosed are the exposure results from thermoluminescent dosimeters (TLDs) posted inside the protected area of the Davis-Besse Nuclear Power Station for the fourth quarter, 2020.

Anno dul 2-5-2021

A. Szal

Program Coordinator

APPROVED BY

A. Banavali, PhD.

Laboratory Manager

Report No. 8003-100-658 Page 1

Table 1. Area monitors (TLDs), Davis-Besse Nuclear Power Station. Quarterly.

Location		mR/	91 days	
	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.
Dry Fuel Storage Are	ea			
T-101	203.1 ± 12.3	222.9 ± 8.2	183.4 ± 10.8	190.4 ± 7.6
T-102	347.1 ± 12.9	393.9 ± 30.9	342.0 ± 8.0	369.0 ± 15.3
T-103	46.7 ± 2.9	45.9 ± 3.7	43.8 ± 3.2	47.9 ± 4.0
T-104	92.3 ± 7.0	87.1 ± 5.4	85.6 ± 4.0	89.6 ± 6.2
T-105	88.3 ± 3.2	87.1 ± 5.2	79.5 ± 1.9	89.9 ± 5.0
T-109	58.1 ± 2.6	54.0 ± 3.0	51.7 ± 3.1	44.0 ± 3.9
T-110	69.9 ± 5.3	72.0 ± 6.4	60.4 ± 2.3	71.0 ± 4.9
Protected Area Fenc	ee			
T-174	34.7 ± 1.5	36.1 ± 3.3	37.3 ± 2.2	36.7 ± 2.5
T-175	134.8 ± 5.5	134.9 ± 10.5	145.6 ± 10.1	140.1 ± 8.6
T-176	30.7 ± 1.7	25.9 ± 2.1	28.8 ± 2.0	25.4 ± 2.0
T-178	19.0 ± 0.5	16.3 ± 1.2	18.2 ± 0.4	16.9 ± 0.8
T-180	12.0 ± 0.7	10.0 ± 0.7	11.4 ± 0.8	12.0 ± 0.5
T-181	10.9 ± 0.5	9.8 ± 0.5	10.4 ± 0.6	11.7 ± 0.5
T-184	15.2 ± 0.5	13.6 ± 0.8	15.6 ± 0.2	15.9 ± 1.1
T-186	16.2 ± 0.9	17.5 ± 0.9	18.4 ± 1.0	18.6 ± 0.9
T-187	23.5 ± 1.0	24.1 ± 2.2	26.8 ± 1.2	27.9 ± 2.2
T-189	38.5 ± 1.2	38.8 ± 2.2	36.6 ± 1.4	43.2 ± 1.8

L-21-107 Enclosure D

Davis-Besse Offsite Dose Calculation Manual, Revision 38

(1 Report follows)

DAVIS-BESSE

OFFSITE DOSE CALCULATION MANUAL

Revision 38

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General Plant Manager, Nuclear

11/12/20 Date

ODCM REVISION 38 - LIST OF CHANGES

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1.0 INTRODUCTION

The Davis-Besse Offsite Dose Calculation Manual (ODCM) describes the methodology and parameters used in:

- 1) determining the radioactive material release rates and cumulative releases;
- 2) calculating the radioactive liquid and gaseous effluent monitoring instrumentation alarm/trip setpoints; and
- 3) calculating the corresponding dose rates and cumulative quarterly and yearly doses.

The ODCM also describes and provides requirements for the Radiological Environmental Monitoring Program. Sampling locations, media and collection frequencies, and analytical requirements are specified. The methodology provided in this manual is acceptable for use in demonstrating compliance with concentration limits of 10 CFR 20.1302; the cumulative dose criteria of 10 CFR 50, Appendix I; 40 CFR 190; and the Davis-Besse Technical Specifications (TS) 5.5.3.

The exposure pathway and dose modeling presented provides estimates (e.g., calculational results) that are conservative (i.e., higher than actual exposures in the environment). This conservatism does not invalidate the modeling since the main purpose of these calculations is for demonstrating "As Low As is Reasonably Achievable" (ALARA) for radioactive effluents. In using these models for evaluation and controlling actual effluents, further simplification and conservatism may be applied. For purposes of demonstrating compliance with the EPA environmental dose standard for the Uranium Fuel Cycle (40 CFR 190), more realistic dose assessment modeling may be used. Other approved methodologies (LADTAP, GASPAR, XOQDOQ) also may be used to assess dose from radioactive effluents.

The ODCM will be maintained for use as a reference guide and training document of accepted methodologies and calculations. Changes to the ODCM calculational methodologies and parameters will be made as necessary to ensure reasonable conservatism in keeping with the principles of 10 CFR 50, Appendix I, Section III and IV. Questions about the ODCM should be directed to the Manager, Site Chemistry.

Changes to the ODCM shall be in accordance with TS 5.5.1.

NOTE: Throughout this document, words appearing all capitalized denote definitions specified in Section 7.5 of this manual, or common acronyms.

Section 2.0 describes equipment for monitoring and controlling liquid effluents, sampling requirements, and dose evaluation methods. Section 3.0 provides similar information on gaseous effluent controls, sampling, and dose evaluation. Section 4.0 describes special dose analyses required for Regulatory Guide 1.21, Annual Effluent Reporting and EPA Environmental Dose Standard of 40 CFR 190. Section 5.0 describes the role of the annual land use census in identifying the controlling pathways and locations of exposure for assessing the potential offsite doses. Section 6.0 describes the Radiological Environmental Monitoring Program. Section 7.0 describes the environmental, effluent and reporting requirements, procedural requirements for major changes to liquid and gaseous radwaste systems, and definitions.

2.0 LIQUID EFFLUENTS

2.1 RADIATION MONITORING INSTRUMENTATION AND CONTROLS

This section summarizes information on the liquid effluent radiation monitoring instrumentation and controls. More detailed information is provided in the Davis-Besse USAR, Section 11.2, Liquid Waste Systems, and associated design drawings from which this summary was derived. Location and control function of the monitors are displayed in Figure 2-1.

The radioactive liquid effluent instrumentation is provided to monitor and control, as applicable, releases of radioactivity in liquid effluents during actual or potential releases. The radioactive liquid effluent monitoring instrumentation channels listed in Table 2-1 shall be FUNCTIONAL with their alarm/trip setpoints set to ensure the limits specified in Section 2.3.1 are not exceeded.

Each radioactive liquid effluent monitoring instrumentation channel shall be demonstrated FUNCTIONAL by the performance of the CHANNEL CHECK, SOURCE CHECK, CHANNEL CALIBRATION, and CHANNEL FUNCTIONAL TEST operations at the frequencies shown in Table 2-2. Each of these operations shall be performed within the specified time interval with a maximum allowable extension not to exceed 25 percent of the specified interval.

NOTE: The monitors indicated in 2.1.1 a), b), and c) are nonfunctional if verifications are not performed or setpoints are less conservative than required.

With a radioactive liquid effluent monitoring instrumentation channel alarm/trip setpoint less conservative than required, without delay suspend the release of radioactive liquid effluents monitored by the affected channel, or declare the channel nonfunctional, or change the setpoint so it is acceptably conservative.

With less than the required number of radioactive liquid effluent monitoring instrumentation channels FUNCTIONAL, take the actions described in Table 2-1. Exert best efforts to return the instruments to FUNCTIONAL status within 30 days and, if unsuccessful, explain in the next Radioactive Effluent Release Report, (Section 7.2), why the nonfunctionality was not corrected in a timely manner.

2.1.1 Required Monitors

This section describes the monitoring required during liquid releases and the backup sampling required when monitors are nonfunctional.

a) Alarm and Automatic Release Termination

i. <u>Clean Radwaste Effluent Monitors (RE-1770 A & B)</u>

Discharges from the Clean Radwaste Monitor Tanks (2) are monitored by redundant radiation monitoring systems (RE-1770 A & B). These monitors detect gross gamma activity in the effluent prior to mixing in the Collection Box. Measurements from each detector read out on the Victoreen panel in the Control Room. Each monitoring system is capable of initiating an alarm and an automatic termination of the release by closing Clean Liquid Radwaste Discharge Flow Control valve (WC-1771). The method for determining setpoints for the alarms is discussed in Section 2.3.

ii. Miscellaneous Radwaste Effluent Monitors (RE-1878 A & B) Discharges from the Miscellaneous Liquid Waste Monitor Tank and the Detergent Waste Drain Tank are monitored by redundant radiation monitoring systems (RE-1878 A & B). These monitors detect gross gamma activity in the effluent line prior to mixing in the Collection Box. Measurements from each detector read out on the Victoreen panel in the Control Room. Each monitor is separately capable of initiating an alarm and automatic termination of the release by closing Miscellaneous Waste Discharge Isolation valve (WM-1876). Setpoint determination for the alarms is discussed in Section 2.3.

b) Alarm (only)

i. Storm Sewer Drain Line (RE-4686)

The monitor on the Storm Sewer Drain effluent line detects abnormal radionuclide concentrations in the storm sewer effluent. This monitor is located near the end of the storm sewer drain pipe, upstream of the final discharge point into the Training Center Pond. The most probable source of any non-naturally occurring radioactive material in the storm sewer would be from the secondary system.

To eliminate this potential source of radioactivity, the Turbine Building Sump effluent is normally directed to the onsite Settling Basins. In this configuration, the source of radioactivity in the Storm Sewer Drain line is from Turbine Building drains that are not routed to the Turbine Building Sump, or from Storm Sewer drains. Evaluation of the alarm setpoint for RE-4686 is discussed in Section 2.3.4.

c) Flow Rate Measuring Devices

i. Clean Radwaste Effluent Line

Flow Indicator (FI) 1700 A & B Flow Totalizer (FQI) 1700 A & B

ii. <u>Miscellaneous Radwaste Effluent Line</u>

Flow Indicator (FI) 1887 A & B Flow Totalizer (FQI) 1887 A & B

iii. Dilution Flow to the Collection Box

Computer Point F201 consists of four points:

- F147 Cooling Tower Blowdown
- F890 Service Water Outflow
- F200 Collection Box Dilution Flow
- F886 Unit Dilution Pump Flow

2.1.2 Non-Required Monitors

Additional monitors, although not required by the ODCM, have been installed to monitor radioactive material in liquid. The monitors are:

- Component Cooling Water System (CCWS) (RE-1412 & 1413)-monitors the CCWS return lines. High alarm redirects the vent path to the Miscellaneous Waste Drain Tank,
- Service Water System (SWS) (RE-8432) offline detector monitors the SWS outlet prior to discharge to the Collection Box, and
- Intake Forebay (RE-8434) monitors the station intake water from intake forebay.

2.2 SAMPLING AND ANALYSIS OF LIQUID EFFLUENTS

As a minimum, radioactive liquid wastes shall be sampled and analyzed according to the sampling and analysis program of Table 2-3. Table 2-3 identifies three potential sources of liquid radioactive effluents. A fourth potential release point from the Turbine Building Sump is discussed in Section 2.2.2.

The results of the radioactivity analyses shall be used in accordance with the methodology and parameters of this section to ensure that the concentrations at the point of release are maintained within the limits of 10 CFR 20.1302.

2.2.1 Batch Releases

BATCH RELEASE is defined as the discharge of liquid waste of a discrete volume. The releases from the Clean Waste Monitor Tanks 1-1 and 1-2, the Miscellaneous Liquid Waste Monitor Tank, and the Detergent Waste Drain Tank are classified as BATCH RELEASES. The following sampling and analysis requirements shall be met for all releases from these tanks.

- Prior to each release, analysis of a representative grab sample for principal gamma emitters.
- Once per month, as a minimum, analysis of one sample from a BATCH RELEASE for dissolved and entrained gases (see note below).
- Once per month, analysis of a COMPOSITE SAMPLE of all releases that month for tritium and gross alpha activity. Samples contributed to the composite are to be proportional to the quantity of liquid discharged.
- Once per quarter, analysis of a COMPOSITE SAMPLE of all releases that quarter for Strontium (Sr)-89, Sr-90, and Iron (Fe)-55.

NOTE: Identification of noble gases that are principal gamma-emitting radionuclides are included as a part of the gamma spectral analysis performed on all liquid radwaste effluents. Therefore, the Table 2-3 requirement for sampling and analysis of one batch per month for noble gases need not be performed as a separate program.

2.2.2 Continuous Releases

Releases from the Turbine Building Sump (TBS) and Storm Sewer Drains (SSD) are classified as continuous releases.

Because the Turbine Building Sump discharges may contain minute concentrations of radionuclides due to primary-to-secondary system leakage, the Turbine Building Sump discharges are routed to the onsite Settling Basins instead of the SSD line. Screenwash water from the Screenwash Catch Basin is also routed to the North Settling Basin. Overflow from the Settling Basins is pumped to the Collection Box where it is mixed with dilution flow and released to Lake Erie. Releases via this pathway are monitored by weekly analysis for principal gamma-emitting radionuclides and tritium, and by quarterly analysis of composite samples for Fe-55, Sr-89 and Sr-90.

Discharges to the Storm Sewer Drains are from Turbine Building drains that are not routed to the TBS and from storm drains. The Storm Sewer discharges to the Training Center Pond with the overflow discharging to the Toussaint River. For conservatism, it is assumed that radioactive material released to the Training Center Pond is ultimately discharged to Lake Erie (unless actions are taken to prevent this occurrence).

Grab samples are collected weekly from the Settling Basins and analyzed by gamma spectroscopy. If activity is identified, additional controls are enacted to ensure that the release concentrations are maintained below Effluent Concentration Limits and that the cumulative releases are a small fraction of the dose limits of Section 2.4.1. The following actions will be considered for controlling any radioactive material releases via the TBS and SSD:

- Increase the sampling frequency of the TBS and SSD until the source of the contamination is identified.
- Perform gamma spectral analysis on each sample for principal gamma emitters.
- Compare the measured radionuclide concentrations in the sample with Effluent Concentration (EC) equation 2-2 to ensure releases are within the limits.
- Based on the measured concentrations, a re-evaluation of the alarm setpoint for the SSD monitor (RE-4686) may be performed as specified in Section 2.3.4.
- Consider each sample representative of the releases that have occurred since the previous sample. Determine the volume of liquid released from the Turbine Building Sump based on the Turbine Building Sump pump run times and flow rates.
- Determine the total radioactive material released from the sample analysis and the calculated volume released. Determine cumulative doses in accordance with Section 2.4.

2.2.3 Condensate Demineralizer Backwash

Discharges from the Condensate Demineralizer Backwash Receiving Tank (BRT) to the South Settling Basin are sampled in accordance with Table 2-3. Samples are collected prior to each release of the resin/water slurry and separated into the liquid phase (transfer water) and solid phase (resin). These samples are separately analyzed for principal gamma emitters. Energy Harbor Nuclear Corporation has imposed guidelines on concentrations of radionuclides that may be discharged to the onsite settling basin. These guidelines are presented in Table 2-4.

The radioactive material contamination in the condensate demineralizer backwash will be contained on the powdered resin; soluble or suspended radioactive material associated with the water phase is not expected. The resin and the water are analyzed separately thus allowing for a determination of the amounts retained onsite in the Settling Basin (the resin) and the amounts released to Lake Erie as an effluent (the decant).

The BRT receives the spent resin from the Condensate Polishing System. Low-level radioactive material contamination of the spent resin is periodically expected due to minor leaks in the steam generators and the leaching of residual activity in the secondary system.

During primary-to-secondary leakage, activity levels will be elevated and typically above the limits imposed for acceptable discharge to the basin. Under these conditions, the powdered resins are retained within the plant and processed as solid radwaste for offsite transport and disposal at a licensed radioactive waste disposal site. If within the criteria of Table 2-4, the BRT may be discharged to the onsite settling basin with the approval of the Manager – Site Chemistry.

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2.2.4 Borated Water Storage Tank

The Borated Water Storage Tank (BWST) is an unprotected outdoor liquid storage tank and therefore is part the Explosive Gas and Storage Tank Radioactivity Monitoring Program (TS 5.5.11.b as implemented by TRM 8.7.4).

The quantity of radioactive material stored in the BWST shall be limited to ensure that an uncontrolled release of the tank contents would result in concentrations less than the limits of 10 CFR 20, Appendix B, Table 2, Column 2 at the nearest potable water supply and the nearest surface water supply in an unrestricted area.

The concentration of radionuclides in the BWST shall be determined to be within the applicable limits by analyzing a representative sample of the tank contents at least once per 7 days when radioactive materials are being added to the tank.

The method for limiting the BWST radionuclide concentration to meet the criteria above is described below.

- 1) Determine the limiting fraction of each radionuclide present in a liquid sample from the tank. This is the sample concentration in μCi/ml divided by the limiting activity from Table 2-5.
- 2) Sum the limiting fractions of each radionuclide in the sample. This sum should be less than one (1) to meet the limiting criteria for offsite dose rates via the liquid pathway.

If the sum of the limiting fractions of radionuclides in the BWST is equal to or exceeds one (1), then suspend all additions of radioactive material to the tank, reduce tank contents to within the limits, and describe the events leading to this condition in the next Radioactive Effluent Release Report. (TRM 8.7.4 requirements)

The values in Table 2-5 were calculated specifically for the BWST.

2.3 LIQUID EFFLUENT MONITOR SETPOINTS

2.3.1 Concentration Limits

The concentrations of radioactive material released in liquid effluents to UNRESTRICTED AREAS shall be limited to the concentrations specified in 10 CFR Part 20.1302 for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the concentration shall be limited to 2.0E-04 μ Ci/ml. If the concentration of radioactive material released in liquid effluents to UNRESTRICTED AREAS exceeds these limits, then without delay restore the concentrations to within these limits.

This limitation provides additional assurance that the levels of radioactive material in bodies of water outside the site should not result in exposures exceeding the Section II.A design objective of Appendix I, 10 CFR Part 50, to an individual, and the limits of 10 CFR Part 20.1302 to the population.

The concentration limit for noble gases is based upon the assumption that Xe-135 is the controlling radioisotope and its Effluent Concentration in air (submersion) was converted to an equivalent concentration in water using the methods described in International Commission on Radiological Protection (ICRP) Publication 2.

2.3.2 Basic Setpoint Equation

During the release of liquid radioactive effluents, radiation monitor setpoints shall be established to alarm and trip prior to exceeding the limits specified above. To meet this requirement, the alarm/trip setpoint for liquid effluent monitors measuring the radioactivity concentration prior to dilution is derived in Section 2.3.3.

2.3.3 <u>Liquid Radwaste Effluent Line Monitor Setpoint Calculations (RE-1770A & B, RE-1878A & B)</u>

The Liquid Radwaste Effluent Line Monitors provide alarm and automatic termination of releases prior to exceeding the Effluent Concentrations (EC) of 10 CFR 20.1302 at the UNRESTRICTED AREA. As required by Table 2-3 and as discussed in Section 2.2.1, a sample of the liquid radwaste to be discharged is collected and analyzed by gamma spectroscopy to identify principal gamma-emitting radionuclides. A maximum release rate from the tank is determined for the release based on the radionuclide concentrations and the available dilution flow rate.

The maximum release rate is inversely proportional to the ratio of the radionuclide concentrations to their EC values. This ratio of measured concentration to EC values is referred to as the EC fraction (ECF) and is calculated by the equation:

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$$ECF = \sum_{i} \frac{C_{i}}{EC_{i}}$$
 (2-2)

where:

ECF = sum of the fractions of the unrestricted area EC for a mixture of radionuclides.

C_i = concentration of each radionuclide i measured in tank prior to release (μCi/ml), and

 EC_i = unrestricted area EC (μ Ci/ml) for each radionuclide i from 10 CFR Part 20.1302. For dissolved and entrained noble gases an EC value of 2.0E-04 μ Ci/ml shall be used.

Based on the ECF, the minimum dilution factor (MDF) for the conduct of the release is established at 3.33 times larger than actually required. This safety factor (SF) provides conservatism, accounting for variations in monitor response and flow rates and also for the presence of radionuclides that may not be detected by the monitors (i.e., non-gamma emitters). The following equation is used for calculating the required minimum dilution factor:

$$MDF = ECF/SF (2-3)$$

where:

MDF = minimum required dilution factor,

SF = 0.3 administrative safety factor.

The maximum release rate from the tank is then calculated by dividing the available dilution flow rate (ADF) at the Collection Box by the MDF as calculated by equation (2-4).

$$MAX RR = 0.9 (ADF/MDF)$$
 (2-4)

where:

MAX RR = maximum allowable release rate (gal/min),

0.9 = administrative conservatism factor, and

ADF = available dilution flow rate at the Collection Box as measured by Computer Point F201 (gal/min).

NOTE: Equations (2-3) and (2-4) are valid only for ECF >1. For ECF ≤1, the waste tank concentration is below the limits of 10 CFR Part 20.1302 without dilution, and MAX RR may take on any value within discharge pump capacity.

If MAX RR is greater than the maximum discharge pump capacity, then the pump capacity should be used in establishing the actual release rate (RR) for the radwaste discharge. For releases from the Miscellaneous Waste Monitor Tank and Detergent Waste Drain Tank, the discharge pump capacity is 100 gpm; for the Clean Waste Monitor Tank, this value is 140 gpm.

Since the actual release rate from the tank is derived such that 10 CFR 20.1302 limits will not be exceeded given the radionuclide concentration in the tank and the available dilution flow, setpoints must be established to ensure:

- 1) radionuclide concentration released from the tank does not increase above the concentration detected in the sample,
- 2) available dilution flow does not decrease, and
- 3) actual release rate from the tank does not increase above the calculated value.

The setpoints for the predilution radiation monitor (RE-1770 A & B, or RE-1878 A & B) are determined as follows:

Alert Alarm SP =
$$[2 * R * \Sigma (C_i * SEN_i)] + Bkg$$
 (2-5)

High Alarm SP =
$$[3 * R * \Sigma (C_i * SEN_i)] + Bkg$$
 (2-6)

where:

SP = setpoint of the radiation monitor (cpm),

 C_i = concentration of radionuclide i as measured by gamma spectroscopy ($\mu Ci/ml$),

 SEN_i = monitor sensitivity for radionuclide i based on calibration curve (cpm per $\mu Ci/ml$),

Bkg = background reading of the radiation monitor (cpm), and

R = MAX RR / actual release rate

The Cs-137 sensitivity may be used in lieu of the sensitivity values for individual radionuclides. The Cs-137 sensitivity provides a reasonably conservative monitor response correlation for radionuclides of interest in reactor effluents. Coupled with the safety factor SF in equation (2-3), this assumption simplifies the evaluation without invalidating the overall conservatism of the setpoint determination.

The high flow setpoint should be set equal to the MAX RR calculated in equation (2-4) or discharge pump capacity (whichever is smaller). The low flow setpoint for dilution flow rate should be set at 0.9 times the available dilution flow rate.

2.3.4 Storm Sewer Drain Monitor (RE-4686)

The setpoint for the SSD radiation monitor, RE-4686, shall be established to ensure the concentration in the effluent does not exceed the limits of 10 CFR 20.1302. The SSD is not normally radioactively contaminated by other than naturally-occurring radionuclides. Therefore, the setpoint for this monitor has been established at a practical level to provide an early indication of any abnormal conditions without causing spurious alarm due to fluctuations in background.

Since discharge is to the Training Center Pond, exceeding the RE-4686 setpoint does not necessarily mean Section 2.3.1 concentration limits have been exceeded at UNRESTRICTED AREAS. The verification of compliance with the limits on concentration should be based on actual samples of the effluent from the pond to the Toussaint River and Lake Erie. (Refer to Section 2.3.6).

2.3.5 Alarm Setpoints for the Non-Required Radiation Monitors

a) Component Cooling Water System (CCWS) (RE-1412 & 1413)

The monitors RE-1412 and 1413 provide indication of a breach in the CCWS integrity that would allow reactor coolant water to enter and contaminate the system. Therefore, the alarm setpoint is established to prevent incurring a spurious alarm due to background fluctuations. The setpoint is controlled in accordance with the Radiation Monitor Setpoint Manual.

b) Service Water System (SWS) (RE-8432)

No radioactive material is expected to be contained within the SWS during normal operations. Therefore, the high alarm setpoint is established to prevent incurring a spurious alarm due to background fluctuations. The setpoint is controlled in accordance with the Radiation Monitor Setpoint Manual.

c) Intake Forebay Monitor (RE-8434)

The high alarm setpoint is established to prevent incurring a spurious alarm due to background fluctuations. Although highly unlikely, a verified alarm from this system would indicate a possible contamination of the station intake water. The setpoint is controlled in accordance with the Radiation Monitor Setpoint Manual.

2.3.6 Alarm Response - Evaluating Actual Release Conditions

Liquid release rates are controlled and alarm setpoints are established to ensure that releases do not exceed the concentration limits of Section 2.3.1 (i.e., 10 CFR 20 ECs at the discharge to Lake Erie). However, if any of the monitors (RE-1770 A & B, RE-1878 A & B, or RE-4686) alarm during a liquid release, it becomes necessary to re-evaluate the release conditions to determine compliance with the limits. After an alarm, the following actual release conditions should be determined:

- verify radiation monitor alarm setpoint to ensure consistency with the setpoint evaluation for the release;
- re-sample and re-analyze the source of the release
- re-determine the release rate and the dilution water flow.

Based on available data, the following equation may be used for evaluating the actual release conditions:

$$\Sigma \frac{C_i}{EC_i} * \frac{RR}{DF + RR} \le 1$$
 (2-7)

where:

 C_i = measured concentration of radionuclide i in the effluent stream prior to dilution (μ Ci/ml),

 EC_i = the Effluent Concentration for radionuclide i from Appendix B, Table II, Column 2 of 10 CFR 20 or 2.0E-04 μCi/ml for dissolved or entrained noble gases (μCi/ml),

RR = actual release rate of the liquid effluent at the time of the alarm (gal/min), and

DF = actual dilution water flow at the time of the release alarm (gal/min).

If the value calculated by equation 2-7 is less than or equal to 1, then the release did not exceed the limits of 10 CFR 20.1302.

2.4 LIQUID EFFLUENT DOSE CALCULATION - 10 CFR 50

2.4.1 Dose Limits to MEMBERS OF THE PUBLIC

The limits for dose or dose commitment to MEMBERS OF THE PUBLIC from radioactive materials in liquid effluents from Davis-Besse are:

- during any calendar quarter:
 - < 1.5 mrem to total body
 - \leq 5.0 mrem to any organ
- during any calendar year:
 - \leq 3.0 mrem to total body
 - ≤ 10.0 mrem to any organ

With the calculated dose from the release of radioactive materials in liquid effluents exceeding any of the above limits, prepare and submit to the Commission within 60 days, pursuant to Section 7.3, a Licensee Event Report that identifies the cause(s) for exceeding the limit(s) and defines the corrective actions that have been taken to reduce the releases and the proposed corrective actions to be taken to assure that subsequent releases will be in compliance with the above limits.

Cumulative dose contributions from liquid effluents for the current calendar quarter and the current calendar year shall be determined in accordance with the methodology and parameters in the ODCM at least once per 31 days.

This requirement is provided to implement the requirements of Sections II.A, III.A and IV.A of Appendix I, 10 CFR Part 50.

This action provides the required operating flexibility and at the same time implements the guides set forth in Section IV.A of Appendix I, 10 CFR Part 50 to assure that the releases of radioactive material in liquid effluents will be kept "as low as is reasonably achievable."

NOTE: For fresh water sites with drinking water supplies which can be potentially affected by plant operations, there is reasonable assurance that the operation of the facility will not result in radionuclide concentrations in the finished drinking water that are in excess of the requirements of 40 CFR 141. The dose calculations in the ODCM implement the requirements of Section III.A of Appendix I, 10 CFR Part 50. Conformance with the guides of Appendix I is to be shown by calculational procedures based on models and data such that the actual exposure of an individual through appropriate pathways is unlikely to be substantially underestimated. The equations specified in the ODCM for calculating the doses due to the actual release rates of radioactive materials in liquid effluents are consistent with the methodology provided in Regulatory Guide 1.109, "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR Part 50, Appendix I," Revision 1, October 1977.

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2.4.2 MEMBER OF THE PUBLIC DOSE - Liquid Effluents

The calculation of the potential doses to MEMBERS OF THE PUBLIC is a function of the radioactive material releases to the lake, the subsequent transport and dilution in the exposure pathways, and the resultant individual uptake. At Davis-Besse, the combined fish consumption and drinking water pathway has been modeled to provide a conservative dose assessment for exposures to MEMBERS OF THE PUBLIC. For the fish pathway, it has been conservatively assumed that the maximum exposed individual consumes 21 kg per year of fish taken in the immediate vicinity of the Davis-Besse discharge to the lake. For the drinking water pathway, the conservative modeling is based on an individual drinking 730 liters per year of water from the Carroll Township Water Intake located 3.0 miles to the NW of the site discharge.

The equation for assessing the maximum potential dose to MEMBERS OF THE PUBLIC from liquid radwaste releases from Davis-Besse is:

$$D_{o} = \frac{1.67E - 02 * VOL}{DF * Z} * \Sigma (C_{i} * A_{io})$$
 (2-8)

where:

D_o = dose or dose commitment to organ "o" including total body (mrem),

A_{io} = site-specific ingestion dose commitment factor to the total body or any organ "o" for radionuclide "i" given in Table 2-6 (mrem/hr per μCi/ml),

C_i = average concentration of radionuclide i in undiluted liquid effluent representative of the volume VOL (μCi/ml),

VOL = total volume of undiluted liquid effluent released (gal),

DF = average dilution water flow rate during release period (gal/min) (typically 20,000 gpm),

Z = 10 (near field dilution factor)*

1.67E-02 = 1 hr/60 min.

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^{*} Near field dilution factor and dilution to Carroll Township water intake is based on USAR Section 11.2.7.2 and a study performed by Stone & Webster for Toledo Edison entitled "Aquatic Dilution Factors within 50 Miles of the Davis-Besse Unit 1 Nuclear Power Plant", June 1980.

The site-specific ingestion dose/dose commitment factors (A_{io}) represent a composite dose factor for the fish and drinking water pathway. The site-specific dose factor is based on the NRC's generic maximum individual consumption rates. Values of A_{io} are presented in Table 2-6. These values were derived in accordance with the guidance of NUREG-0133 using the following equation:

$$A_{io} = 1.14E + 05 (U_W / D_w + U_F * BF_i) DF_i$$
 (2-9)

where:

 $U_F = 21 \text{ kg/yr adult fish consumption,}$

 $U_W = 730$ liters/yr adult water consumption,

 $D_W = 175$ additional dilution from the near field to the Carroll Township water

intake (net dilution of 1750),

BF_i = bioaccumulation factor for radionuclide "i" in fish from Table 2-7 (pCi/kg

per pCi/1),

DF_i = dose conversion factor for nuclide "i" for adults in organ "o" from Table

E-11 of Regulatory Guide 1.109 and Table 4 of NUREG 0172 (mrem/pCi),

and

 $1.14E+05 = 10^6 (pCi/\mu Ci) * 10^3 (ml/kg) / 8760 (hr/yr).$

The radionuclides included in the periodic dose assessment required by Section 2.4.1 are those identified by gamma spectral analysis of the liquid waste samples collected and analyzed per the requirements of Table 2-3. In keeping with the NUREG-0133 guidance, the adult age group represents the maximum exposed individual age group. Evaluation of doses for other age groups is not required for demonstrating compliance with the dose criteria of Section 2.4.1. The dose analysis for radionuclides requiring radiochemical analysis will be performed after receipt of results of the analysis of the composite samples. In keeping with the required analytical frequencies of Table 2-3, tritium dose analyses will be performed at least monthly; Sr-89, Sr-90 and Fe-55 dose analyses will be performed at least quarterly.

2.4.3 <u>Simplified Liquid Effluent Dose Calculation</u>

In lieu of the individual radionuclide dose assessment presented in Section 2.4.2, the following simplified dose calculation may be used for demonstrating compliance with the dose limits required by Section 2.4.1. Radionuclides included in this dose calculation should be those measured in the grab sample of the release (principal gamma emitters measured by gamma spectroscopy). H-3 should not be included in this analysis. Refer to Appendix A for the derivation of this simplified method.

Total Body

$$D_{tb} = \frac{9.67E + 02*VOL}{DF} *\Sigma C_{i}$$
 (2-10)

$$D_{\text{max}} = \frac{1.18E + 03*VOL}{DF} *\Sigma C_{i}$$
 (2-11)

where:

C_i = average concentration of radionuclide i excluding H-3 in undiluted liquid effluent representative of the release volume (μCi/ml),

VOL = volume of liquid effluent released (gal),

DF = average dilution water flow rate during release period (gal/min),

 D_{tb} = conservatively evaluated total body dose (mrem),

 D_{max} = conservatively evaluated maximum organ dose (mrem),

9.67E+02 = 0.0167 (hr/min) * 5.79E+05 (mrem/hr per μ Ci/ml, Cs-134 total body dose factor from Table 2-6) / 10 (near field dilution), and

1.18E+03 = 0.0167 (hr/min) * 7.09E+05 (mrem/hr per μ Ci/ml, Cs-134 liver dose factor from Table 2-6) / 10 (near field dilution).

2.4.4 <u>Contaminated TBS/SSD System - Dose Calculation</u>

All non-naturally occurring radioactivity released from the SSD must be included in the evaluation of the cumulative dose to a MEMBER OF THE PUBLIC. Although the discharges are via the Training Center Pond to Pool 3, and then to the Toussaint River (instead of directly to Lake Erie), the modeling of equation (2-8) remains reasonably conservative for determining a hypothetical maximum individual dose. The following assumptions should be applied for the dose assessment of any radioactive material releases from the SSD into the Training Center Pond and subsequently to the Toussaint River:

- If no additional controls are taken, then it should be assumed that any radioactive material released to the Training Center Pond will ultimately be discharged to the lake environment;
- If actions are taken to limit any release, then the assessment of dose should be made based on an evaluation of actual releases; and
- The dilution flow should consider additional dilution of the SSD discharge from other sources into the Training Center Pond prior to release to the river.

2.5 LIQUID EFFLUENT DOSE PROJECTIONS

10 CFR 50.36a requires licensees to maintain and operate the radwaste system to ensure releases are maintained ALARA. This Section implements the requirements of 10 CFR Part 50.36a, General Design Criterion 60 of Appendix A to 10 CFR Part 50 and design objective Section II.D of Appendix I to 10 CFR Part 50. Based on a cost analysis of treating liquid radwaste, the specified limits governing the use of appropriate portions of the liquid radwaste treatment system were specified as the dose design objectives as set forth in Section II.A of Appendix I, 10 CFR Part 50, for liquid effluents. This requirement is implemented through this ODCM.

The liquid radioactive waste processing system shall be used to reduce the radioactive material levels in the liquid waste prior to release when the projected doses in any 31-day period would exceed:

- 0.06 mrem to the total body, or
- 0.20 mrem to any organ.

This dose criteria for processing is established at one quarter of the design objective rate (i.e., 1/4 of 3 mrem/yr total body and 10 mrem/yr any organ over a 31-day projection).

With radioactive liquid waste being discharged without treatment and in excess of the above limits, prepare and submit to the Commission within 60 days, pursuant to Section 7.3, a Licensee Event Report that includes the following information:

- explanation of why liquid radwaste was being discharged without treatment, identification of any nonfunctional equipment or subsystems, and the reason for the nonfunctionality;
- action(s) taken to restore the nonfunctional equipment to FUNCTIONAL status; and
- summary description of action(s) taken to prevent a recurrence.

In any month in which radioactive liquid effluent is being discharged without treatment, doses due to liquid releases to UNRESTRICTED AREAS shall be projected at least once per 31 days in accordance with the methodology and parameters in the ODCM.

The following equations may be used for the dose projection calculation:

$$D_{tbp} = D_{tb} (31 / d) (2-12)$$

$$D_{\text{maxp}} = D_{\text{max}} (31 / d)$$
 (2-13)

where:

 D_{tbp} = the 31-day total body dose projection (mrem),

 D_{tb} = the cumulative total body dose for current calendar month including release under consideration as determined by equation (2-8) or (2-10) (mrem),

 D_{maxp} = the 31-day maximum organ dose projection (mrem),

 D_{max} = the maximum organ dose for current calendar month including release under consideration as determined by equation (2-8) or (2-11) (mrem),

d = the number of days into current month, and

31 = the number of days in projection.

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Table 2-1 RADIOACTIVE LIQUID EFFLUENT MONITORING INSTRUMENTATION

INSTE	<u>RUMEN</u>	<u>T</u>	REQUIRED CHANNELS	APPLICABILITY	<u>ACTION</u>
1.		Radioactivity Monitors Providing Alarms and Automatic nation of Release			
	a.	Liquid Radwaste Effluent Line (either Miscellaneous (RE 1878A, B) or Clean (RE 1770A, B), but not both simultaneously)*	1	(1)	A
2.	Flow Rate Measurement Devices				
	a.	Liquid Radwaste Effluent Line	1	(1)	В
	b.	Dilution Flow to Collection Box	1	(1)	В
	c.	FE 4687 Storm Sewer	1	(1)	В
3.		Beta or Gamma Radioactivity Monitors Providing Alarm But roviding Automatic Termination of Release			
	a.	Storm Sewer Drain (RE 4686)	1	(1)	C

^{*} Only one release (either MWMT or CWMT) at a time can be in progress.

TABLE NOTATION

- (1) During radioactive releases via this pathway
- ACTION A With less than the number of required channels FUNCTIONAL, effluent releases may be resumed, provided that prior to initiating a release:
 - 1. At least two independent samples are analyzed in accordance with Table 2-3 for analyses performed with each batch;
 - 2. At least two independent verification of the release rate calculations are performed;
 - 3. At least two independent verifications of the discharge valving are performed;

Otherwise, suspend release of radioactive effluents via this pathway.

- ACTION B With less than the number of required channels FUNCTIONAL, effluent releases via this pathway may continue provided the flow rate is estimated at least once per 4 hours during actual releases. Pump curves may be used to estimate flow.
- ACTION C With less than the number of required channels FUNCTIONAL, or if high alarm is locked in on RE, effluent releases via this pathway may continue provided that during effluent releases, grab samples are collected, at least once per 12 hours, and analyzed, at least once per 12 hours, for gross radioactivity (beta or gamma) at a lower limit of detection no greater than 1.0E-07 µCi/ml or a gamma isotopic analysis meeting the LLD Requirement of Table 2-3.

Table 2-2

RADIOACTIVE LIQUID EFFLUENT MONITORING
INSTRUMENTATION VERIFICATION REQUIREMENTS

<u>INSTRUMENT</u>			CHANNEL CHECK	SOURCE CHECK	CHANNEL CALIBRATION	CHANNEL FUNCTIONAL <u>TEST</u>
1.		Beta or Gamma Radioactivity Monitors ling Alarm and Automatic Isolation, if able.				
	a.	Liquid Radwaste Effluents Lines	$D^{(1)}$	P	$E^{(3)}$	Q ⁽²⁾
	b.	Storm Sewer Discharge Line	$D^{(4)}$	M	$E_{(3)}$	$Q^{(2)}$
2.	Flow 1	Rate Monitors				
	a.	Liquid Radwaste Effluent Lines	D ⁽⁴⁾	N/A	E	Q
	b.	Dilution Flow to Collection Box	D ⁽⁴⁾	N/A	E	Q
	c.	Storm Sewer		N/A		

Table 2-2 (continued)

TABLE NOTATION

- (1) During releases via this pathway.
- (2) If applicable, the CHANNEL FUNCTIONAL TEST shall also demonstrate that automatic isolation of this pathway and control room alarm annunciation occurs if the instrument indicates measured levels above the alarm/trip setpoint.
- (3) The initial CHANNEL CALIBRATION for radioactivity measurement instrumentation shall be performed using one or more of the reference standards certified by the National Institute of Standards and Technology (NIST) or using standards that have been obtained from suppliers that participate in measurement assurance activities with NIST. These standards should permit calibrating the system over its intended range of energy and rate capabilities. For subsequent CHANNEL CALIBRATION, sources that have been related to the initial calibration should be used, at intervals of at least once per eighteen months. For high range monitoring instrumentation, where calibration with a radioactive source is impractical, an electronic calibration may be substituted for the radiation source calibration.
- (4) CHANNEL CHECK shall consist of verifying indication of flow during periods of release. CHANNEL CHECK shall be made at least once daily on any day on which continuous, periodic, or BATCH RELEASES are made.
- (D) At least once per 24 hours.
- (M) At least once per 31 days.
- (P) Prior to each release.
- (E) At least once per 18 month (550 days).
- (Q) At least once per 92 days.
- (R) At least once per 24 months (730 days)

Liqu	id Release Type	Sampling Frequency	Minimum Analysis Frequency	Type of Activity Analysis	Lower Limit of Detection (LLD) (µCi/ml) ^a
A.	Batch Waste Release Tanks ^d	P Each Batch	P Each Batch	Principal Gamma Emitters ^f	5.0E-07 ^b
				I-131 ^f	1.0E-06
		P One Batch/M	M	Dissolved and Entrained Gases	1.0E-05
		P Each Batch	M Composite ^c	H-3	1.0E-05
				Gross Alpha	1.0E-07
		P Each Batch	Q Composite ^c	Sr-89, Sr-90	5.0E-08
				Fe-55	1.0E-06
B.	Storm Sewer Drain	Continuously monitored	Se	Principal Gamma Emitters ^f	5.0E-07 ^b
				I-131 ^f	1.0E-06
C.	Condensate Demineralizer Backwash	P Each Batch when discharged to	P Each Batch when discharged to	Principal Gamma Emitters ^f	5.0E-07 ^b
		the settling basin	the settling basin	I-131 ^f	1.0E-06

TABLE NOTATION

a. The LLD is the smallest concentration of radioactive material in a sample that will be detected with 95% probability with 5% probability of falsely concluding that a blank observation represents a "real" signal.

For a particular measurement system (which may include radiochemical separation):

$$LLD = \frac{4.66 s_b}{E * V * 2.22 * Y * exp(-\lambda \Delta t)}$$

where

LLD is the lower limit of detection as defined above (as pCi per unit mass or volume);

S_b is the standard deviation of the background counting rate or of the counting rate of a blank sample as appropriate (as counts per minute);

E is the counting efficiency (as counts per transformation);

V is the sample size (in units of mass or volume);

2.22 is the number of transformations per minute per picocurie;

Y is the fractional radiochemical yield (when applicable);

 λ is the radioactive decay constant for the particular radionuclide;

 Δt for plant effluents is the elapsed time between the midpoint of sample collection and time of counting.

It should be recognized that the LLD is defined as an <u>a priori</u> (before the fact) limit representing the capability of a measurement system and not as an <u>a posteriori</u> (after the fact) limit for a particular measurement.

b. The principal gamma emitters for which the LLD specification will apply are exclusively the following radionuclides: Mn-54, Fe-59, Co-58, Co-60, Zn-65, Mo-99, Cs-134, Cs-137, and Ce-141. For Ce-144, the LLD is 2.0E-06 μ Ci/ml. Other peaks which are measured and identified shall also be reported.

Nuclides which are below the LLD for the analysis should not be reported as being present at the LLD level. When unusual circumstances result in LLDs higher than required, the reasons shall be documented in the Radioactive Effluent Release Report.

c. A COMPOSITE SAMPLE is one in which the method of sampling employed results is a specimen which is representative of the liquids released.

Table 2-3 (continued)

TABLE NOTATION

- d. A BATCH RELEASE is the discharge of liquid wastes of a discrete volume.
- e. When the monitor is out of service or monitor is locked in high alarm, a grab sample shall be taken and analyzed once every 12 hours if there is flow from the Storm Sewer line.
- f. If an isotopic analysis is unavailable, gross beta or gamma measurement of BATCH RELEASE may be substituted provided the concentration released to the UNRESTRICTED AREA does not exceed 1.0E-07 μ Ci/ml and a COMPOSITE SAMPLE is analyzed for principal gamma emitters when instrumentation is available.
- g. Frequency notation:
 - P Prior to each release.
 - M At least once per 31 days.
 - Q At least once per 92 days.
 - S At least once per 12 hours (when the monitor is nonfunctional or high alarm is locked in).

Table 2-4

<u>LIMITING RADIONUCLIDE CONCENTRATIONS* IN SECONDARY-SIDE</u> CLEAN-UP RESINS FOR ALLOWABLE DISCHARGES TO ONSITE SETTLING BASIN

Radionuclide	Limiting Concentration**
	(μCi/cm ³)
Cr-51	3.3E-02
Mn-54	6.2E-05
Fe-59	5.1E-04
Co-58	3.0E-04
Co-60	5.4E-06
Y-91	2.1E-03
Zr-95	4.1E-04
Nb-95	1.0E-03
Mo-99	7.8E-03***
Ru-103	1.0E-03
Ru-106	1.6E-05
Ag-110m	1.6E-05
Te-125m	5.4E-05
Te-127m	1.5E-05
Te-129m	6.2E-05
Te-131m	3.1E-03***
Te-132	3.5E-03***
I-131	1.1E-04
I-133	3.8E-04
I-135	1.5E-03
Cs-134	1.1E-05
Cs-136	2.3E-03***
Cs-137	1.0E-05
Ba-140	3.1E-03***
La-140	3.5E-03***
Ce-141	5.8E-03
Ce-144	4.1E-05
Pr-143	1.9E-02

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^{*} Concentration limits based on the study, <u>Disposal of Low-Level Radioactively Contaminated Secondary-Side Clean-up Resins in the On-site Settling Basins at the Davis-Besse Nuclear Power Station</u>, J. Stewart Bland, May 1983. The limits represent a hypothetical maximum individual dose of less than 1 mrem per year due to an inadvertent release to the offsite environment. The allowable release limits as presented in Table 2 of the above reference report have been reduced by a factor of 10 for added conservatism - representing a hypothetical dose of less than 0.1 mrem.

^{**} With more than one radionuclide identified in a resin batch, the evaluation for acceptable discharge to the onsite settling basin shall be based on the "sum of the fractions" rule as follows: Determine for each identified radionuclide the ratio between the measured concentration and the limiting concentration; the sum of these ratios for all radionuclides should be less than one (1) for discharge to the basin.

^{***} Limits updated due to changes in 10CFR20, Appendix B, Table 2, Column 2 values.

 $\label{eq:concentration} \textbf{Table 2-5}$ $\label{eq:concentration limits for the bwst}$

	Maximum Permissible
Isotope	Concentration, μCi/ml
H-3	1.35E+00
Cr-51	6.76E-01
Mn-54	4.06E-02
Fe-59	1.35E-02
Co-57	8.12E-02
Co-58	2.70E-02
Co-60	4.06E-03
Zn-65	6.76E-03
Rb-88	5.40E-01
Sr-89	1.08E-02
Sr-90	6.76E-04
Sr-91	2.70E-02
Sr-92	5.40E-02
Y-90	9.46E-03
Y-91	1.08E-02
Y-93	2.70E-02
Zr-95	2.70E-02
Zr-97	1.22E-02
Nb-95	4.06E-02
Nb-97	4.06E-01
Mo-99	2.70E-02
Tc-99m	1.35E+00
Ru-103	4.06E-02
Ru-106	4.06E-03
Ag-110m	8.12E-03
Sn-113	4.06E-02
Te-123m	1.35E-02
Sb-124	9.46E-03
Sb-125	4.06E-02
Te-132	1.22E-02
I-131	1.35E-03
I-132	1.35E-01
I-133	9.46E-03
I-134	5.40E-01
I-135	4.06E-02
Cs-134	1.22E-03
Cs-136	8.12E-03
Cs-137	1.35E-03
Cs-138	5.40E-01
Ba-139	2.70E-01
Ba-140	1.08E-02
La-140	1.22E-02
Ce-141	4.06E-02
Ce-144	4.06E-03

Nuclide	<u>Bone</u>	<u>Liver</u>	<u>T.Body</u>	Thyroid	<u>Kidney</u>	Lung	<u>GI-LLI</u>
H-3	0.00E+01	2.76E-01	2.76E-01	2.76E-01	2.76E-01	2.76E-01	2.76E-01
C-14	3.13E+04	6.26E+03	6.26E+03	6.26E+03	6.26E+03	6.26E+03	6.26E+03
Na-24	4.08E+02	4.08E+02	4.08E+02	4.08E+02	4.08E+02	4.08E+02	4.08E+02
P-32	1.39E+06	8.62E+04	5.36E+04	0.00E+01	0.00E+01	0.00E+01	1.56E+05
Cr-51	0.00E+01	0.00E+01	1.27E+00	7.62E-01	2.81E-01	1.69E+00	3.21E+02
Mn-54	0.00E+01	4.38E+03	8.35E+02	0.00E+01	1.30E+03	0.00E+01	1.34E+04
Mn-56	0.00E+01	1.10E+02	1.95E+01	0.00E+01	1.40E+02	0.00E+01	3.52E+03
Fe-55	6.60E+02	4.56E+02	1.06E+02	0.00E+01	0.00E+01	2.54E+02	2.61E+02
Fe-59	1.04E+03	2.45E+03	9.38E+02	0.00E+01	0.00E+01	6.84E+02	8.16E+03
Co-57	0.00E+01	2.10E+01	3.50E+01	0.00E+01	0.00E+01	0.00E+01	5.34E+02
Co-58	0.00E+01	8.95E+01	2.01E+02	0.00E+01	0.00E+01	0.00E+01	1.81E+03
Co-60	0.00E+01	2.57E+02	5.67E+02	0.00E+01	0.00E+01	0.00E+01	4.83E+03
Ni-63	3.12E+04	2.16E+03	1.05E+03	0.00E+01	0.00E+01	0.00E+01	4.51E+02
Ni-65	1.27E+02	1.65E+01	7.51E+00	0.00E+01	0.00E+01	0.00E+01	4.17E+02
Cu-64	0.00E+01	1.00E+01	4.70E+00	0.00E+01	2.52E+01	0.00E+01	8.53E+02
Zn-65	2.32E+04	7.37E+04	3.33E+04	0.00E+01	4.93E+04	0.00E+01	4.64E+04
Zn-69	4.93E+01	9.43E+01	6.56E+00	0.00E+01	6.13E+01	0.00E+01	1.42E+01
Zn-69m	8.14E+02	1.95E+03	1.79E+02	0.00E+01	1.18E+03	0.00E+01	1.19E+05
Br-82	0.00E+01	0.00E+01	2.27E+03	0.00E+01	0.00E+01	0.00E+01	2.61E+03
Br-83	0.00E+01	0.00E+01	4.04E+01	0.00E+01	0.00E+01	0.00E+01	5.82E+01
Br-84	0.00E+01	0.00E+01	5.24E+01	0.00E+01	0.00E+01	0.00E+01	4.11E-04
Br-85	0.00E+01	0.00E+01	2.15E+00	0.00E+01	0.00E+01	0.00E+01	0.00E+01
Rb-86	0.00E+01	1.01E+05	4.71E+04	0.00E+01	0.00E+01	0.00E+01	1.99E+04
Rb-88	0.00E+01	2.90E+02	1.54E+02	0.00E+01	0.00E+01	0.00E+01	4.00E-09
Rb-89	0.00E+01	1.92E+02	1.35E+02	0.00E+01	0.00E+01	0.00E+01	1.12E-11
Sr-89	2.23E+04	0.00E+01	6.39E+02	0.00E+01	0.00E+01	0.00E+01	3.57E+03
Sr-90	5.48E+05	0.00E+01	1.34E+05	0.00E+01	0.00E+01	0.00E+01	1.58E+04
Sr-91	4.10E+02	0.00E+01	1.66E+01	0.00E+01	0.00E+01	0.00E+01	1.95E+03
Sr-92	1.55E+02	0.00E+01	6.72E+00	0.00E+01	0.00E+01	0.00E+01	3.08E+03
Y-90	5.80E-01	0.00E+01	1.56E-02	0.00E+01	0.00E+01	0.00E+01	6.15E+03
Y-91m	5.48E-03	0.00E+01	2.12E-04	0.00E+01	0.00E+01	0.00E+01	1.61E-02
Y-91	8.51E+00	0.00E+01	2.27E-01	0.00E+01	0.00E+01	0.00E+01	4.68E+03
Y-92	5.10E-02	0.00E+01	1.49E-03	0.00E+01	0.00E+01	0.00E+01	8.93E+02
Y-93	1.62E-01	0.00E+01	4.46E-03	0.00E+01	0.00E+01	0.00E+01	5.13E+03
Zr-95	2.55E-01	8.17E-02	5.53E-02	0.00E+01	1.28E-01	0.00E+01	2.59E+02
Zr-97	1.41E-02	2.84E-03	1.30E-03	0.00E+01	4.29E-03	0.00E+01	8.79E+02
Nb-95	4.47E+02	2.48E+02	1.34E+02	0.00E+01	2.46E+02	0.00E+01	1.51E+06
Nb-97	3.75E+00	9.48E-01	3.46E-01	0.00E+01	1.11E+00	0.00E+01	3.50E+03
Mo-99	0.00E+01	1.05E+02	2.00E+01	0.00E+01	2.38E+02	0.00E+01	2.44E+02
Tc-99m	8.99E-03	2.54E-02	3.23E-01	0.00E+01	3.86E-01	1.24E-02	1.50E+01
Tc-101	9.24E-03	1.33E-02	1.31E-01	0.00E+01	2.40E-01	6.80E-03	4.00E-14
Ru-103	4.52E+00	0.00E+01	1.95E+00	0.00E+01	1.72E+01	0.00E+01	5.27E+02
Ru-105	3.76E-01	0.00E+01	1.48E-01	0.00E+01	4.86E+00	0.00E+01	2.30E+02

Table 2-6 (Continued)

$\frac{LIQUID\ INGESTION\ DOSE\ COMMITMENT\ FACTORS,\ A_{io}}{(mrem/hr\ per\ \mu Ci/ml)}$

Nuclide	Bone	Liver	T.Body	Thyroid	Kidney	Lung	<u>GI-LLI</u>
Ru-106	6.71E+01	0.00E+01	8.50E+00	0.00E+01	1.30E+02	0.00E+01	4.35E+03
Rh-103m	0.00E+01						
Rh-106	0.00E+01						
Ag-110m	9.57E-01	8.85E-01	5.26E-01	0.00E+01	1.74E+00	0.00E+01	3.61E+02
Sb-124	8.03E+00	1.52E-01	3.19E+00	1.95E-02	0.00E+01	6.26E+00	2.28E+02
Sb-125	5.14E+00	5.74E-02	1.22E+00	5.22E-03	0.00E+01	3.96E+00	5.65E+01
Te-125m	2.57E+03	9.30E+02	3.44E+02	7.72E+02	1.04E+04	0.00E+01	1.03E+04
Te-127m	6.49E+03	2.32E+03	7.90E+02	1.66E+03	2.63E+04	0.00E+01	2.17E+04
Te-127	1.05E+02	3.78E+01	2.28E+01	7.81E+01	4.29E+02	0.00E+01	8.32E+03
Te-129m	1.10E+04	4.11E+03	1.74E+03	3.78E+03	4.60E+04	0.00E+01	5.55E+04
Te-129	3.01E+01	1.13E+01	7.33E+00	2.31E+01	1.26E+02	0.00E+01	2.27E+01
Te-131m	1.66E+03	8.11E+02	6.75E+02	1.28E+03	8.21E+03	0.00E+01	8.05E+04
Te-131	1.89E+01	7.88E+00	5.96E+00	1.55E+01	8.27E+01	0.00E+01	2.67E+00
Te-132	2.41E+03	1.56E+03	1.47E+03	1.72E+03	1.50E+04	0.00E+01	7.39E+04
I-130	2.75E+01	8.11E+01	3.20E+01	6.88E+03	1.27E+02	0.00E+01	6.99E+01
I-131	1.51E+02	2.16E+02	1.24E+02	7.10E+04	3.71E+02	0.00E+01	5.71E+01
I-132	7.39E+00	1.98E+01	6.91E+00	6.91E+02	3.15E+01	0.00E+01	3.71E+00
I-133	5.17E+01	8.99E+01	2.74E+01	1.32E+04	1.57E+02	0.00E+01	8.08E+01
I-134	3.86E+00	1.05E+01	3.75E+00	1.82E+02	1.67E+01	0.00E+01	9.13E-03
I-135	1.61E+01	4.22E+01	1.56E+01	2.78E+03	6.77E+01	0.00E+01	4.77E+01
Cs-134	2.98E+05	7.09E+05	5.79E+05	0.00E+01	2.29E+05	7.61E+04	1.24E+04
Cs-136	3.12E+04	1.23E+05	8.86E+04	0.00E+01	6.85E+04	9.39E+03	1.40E+04
Cs-137	3.82E+05	5.22E+05	3.42E+05	0.00E+01	1.77E+05	5.89E+04	1.01E+04
Cs-138	2.64E+02	5.22E+02	2.59E+02	0.00E+01	3.84E+02	3.79E+01	2.23E-03
Ba-139	9.75E-01	6.95E-04	2.85E-02	0.00E+01	6.49E-04	3.94E-04	1.73E+00
Ba-140	2.04E+02	2.56E-01	1.34E+01	0.00E+01	8.71E-02	1.47E-01	4.20E+02
Ba-141	4.73E-01	3.58E-04	1.60E-02	0.00E+01	3.33E-04	2.03E-04	2.23E-10
Ba-142	2.14E-01	2.20E-04	1.35E-02	0.00E+01	1.86E-04	1.25E-04	3.02E-19
La-140	1.51E-01	7.60E-02	2.01E-02	0.00E+01	0.00E+01	0.00E+01	5.58E+03
La-142	7.72E-03	3.51E-03	8.75E-04	0.00E+01	0.00E+01	0.00E+01	2.56E+01
Ce-141	2.69E-02	1.82E-02	2.06E-03	0.00E+01	8.44E-03	0.00E+01	6.94E+01
Ce-143	4.73E-03	3.50E+00	3.87E-04	0.00E+01	1.54E-03	0.00E+01	1.31E+02
Ce-144	1.40E+00	5.85E-01	7.52E-02	0.00E+01	3.47E-01	0.00E+01	4.73E+02
Pr-143	5.55E-01	2.23E-01	2.75E-02	0.00E+01	1.28E-01	0.00E+01	2.43E+03
Pr-144	1.82E-03	7.54E-04	9.23E-05	0.00E+01	4.25E-04	0.00E+01	2.61E-10
Nd-147	3.79E-01	4.39E-01	2.62E-02	0.00E+01	2.56E-01	0.00E+01	2.11E+03
W-187	2.96E+02	2.47E+02	8.65E+01	0.00E+01	0.00E+01	0.00E+01	8.10E+04
Np-239	2.91E-02	2.86E-03	1.57E-03	0.00E+01	8.91E-03	0.00E+01	5.86E+02

Table 2-7

BIOACCUMULATION FACTORS (BFi) (pCi/kg per pCi/liter)*

Element	Freshwater Fish
Н	9.0E-01
C	4.6E+03
Na	1.0E+02
P	3.0E+03
Cr	2.0E+02
Mn	4.0E+02
Fe	1.0E+02
Co	5.0E+01
Ni	1.0E+02
Cu	5.0E+01
Zn	2.0E+03
Br	4.2E+02
Rb	2.0E+03
Sr	3.0E+01
Y	2.5E+01
Zr	3.3E+00
Nb	3.0E+04
Mo	1.0E+01
Tc	1.5E+01
Ru	1.0E+01
Rh	1.0E+01
Ag	2.3E+00
Sb	1.0E+00
Te	4.0E+02
I	1.5E+01
Cs	2.0E+03
Ba	4.0E+00
La	2.5E+01
Ce	1.0E+00
Pr	2.5E+01
Nd	2.5E+01
W	1.2E+03
Np	1.0E+01
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^{*} Values in this Table are taken from Regulatory Guide 1.109 except for phosphorus which is adapted from NUREG/CR-1336 and silver and antimony which are taken from UCRL 50564, Rev. 1, October 1972.

Table 2-8

$\frac{LIQUID\ PATHWAY\ DOSE\ COMMITMENT\ FACTORS,\ A_{shore,I}}{FOR} \underbrace{\frac{RELEASES\ TO\ THE\ TRAINING\ CENTER\ POND}{(mrem/hr\ per\ \mu Ci/ml)}}$

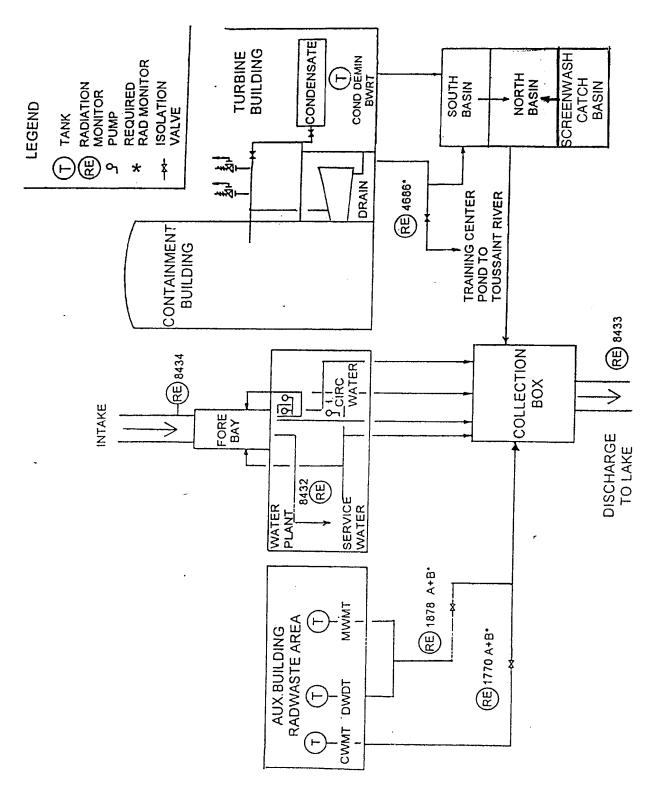
Nuclide	<u>Bone</u>	<u>Liver</u>	<u>T.Body</u>	<u>Thyroid</u>	<u>Kidney</u>	Lung	<u>GI-LLI</u>
H-3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
C-14	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Na-24	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00	2.10E+00
P-32	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cr-51	1.38E+00	1.38E+00	1.38E+00	1.38E+00	1.38E+00	1.38E+00	1.38E+00
Mn-54	4.02E+02	4.02E+02	4.02E+02	4.02E+02	4.02E+02	4.02E+02	4.02E+02
Mn-56	1.08E-02	1.08E-02	1.08E-02	1.08E-02	1.08E-02	1.08E-02	1.08E-02
Fe-55	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	8.18E+01	8.18E+01	8.18E+01	8.18E+01	8.18E+01	8.18E+01	8.18E+01
Co-57	9.49E+01	9.49E+01	9.49E+01	9.49E+01	9.49E+01	9.49E+01	9.49E+01
Co-58	1.14E+02	1.14E+02	1.14E+02	1.14E+02	1.14E+02	1.14E+02	1.14E+02
Co-60	6.43E+03	6.43E+03	6.43E+03	6.43E+03	6.43E+03	6.43E+03	6.43E+03
Ni-63	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ni-65	3.28E-03	3.28E-03	3.28E-03	3.28E-03	3.28E-03	3.28E-03	3.28E-03
Cu-64	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02	9.50E-02
Zn-65	2.23E+02	2.23E+02	2.23E+02	2.23E+02	2.23E+02	2.23E+02	2.23E+02
Zn-69	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Br-82	9.08E+00	9.08E+00	9.08E+00	9.08E+00	9.08E+00	9.08E+00	9.08E+00
Br-83	4.58E-05	4.58E-05	4.58E-05	4.58E-05	4.58E-05	4.58E-05	4.58E-05
Br-84	9.29E-09	9.29E-09	9.29E-09	9.29E-09	9.29E-09	9.29E-09	9.29E-09
Br-85	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rb-86	2.64E+00	2.64E+00	2.64E+00	2.64E+00	2.64E+00	2.64E+00	2.64E+00
Rb-88	5.52E-15	5.52E-15	5.52E-15	5.52E-15	5.52E-15	5.52E-15	5.52E-15
Rb-89	2.00E-16	2.00E-16	2.00E-16	2.00E-16	2.00E-16	2.00E-16	2.00E-16
Sr-89	6.43E-03	6.43E-03	6.43E-03	6.43E-03	6.43E-03	6.43E-03	6.43E-03
Sr-90	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-91	2.77E-01	2.77E-01	2.77E-01	2.77E-01	2.77E-01	2.77E-01	2.77E-01
Sr-92	1.08E-02	1.08E-02	1.08E-02	1.08E-02	1.08E-02	1.08E-02	1.08E-02
Y-90	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03
Y-91m	1.39E-06	1.39E-06	1.39E-06	1.39E-06	1.39E-06	1.39E-06	1.39E-06
Y-91	3.21E-01	3.21E-01	3.21E-01	3.21E-01	3.21E-01	3.21E-01	3.21E-01
Y-92	5.11E-03	5.11E-03	5.11E-03	5.11E-03	5.11E-03	5.11E-03	5.11E-03
Y-93	2.46E-02	2.46E-02	2.46E-02	2.46E-02	2.46E-02	2.46E-02	2.46E-02
Zr-95	7.41E+01	7.41E+01	7.41E+01	7.41E+01	7.41E+01	7.41E+01	7.41E+01
Zr-97	5.38E-01	5.38E-01	5.38E-01	5.38E-01	5.38E-01	5.38E-01	5.38E-01
Nb-95	4.05E+01	4.05E+01	4.05E+01	4.05E+01	4.05E+01	4.05E+01	4.05E+01
Nb-97	1.14E-04	1.14E-04	1.14E-04	1.14E-04	1.14E-04	1.14E-04	1.14E-04
Mo-99	1.07E+00	1.07E+00	1.07E+00	1.07E+00	1.07E+00	1.07E+00	1.07E+00
Tc-99m	1.37E-02	1.37E-02	1.37E-02	1.37E-02	1.37E-02	1.37E-02	1.37E-02
Tc-101	3.33E-18	3.33E-18	3.33E-18	3.33E-18	3.33E-18	3.33E-18	3.33E-18
Ru-103	3.24E+01	3.24E+01	3.24E+01	3.24E+01	3.24E+01	3.24E+01	3.24E+01
Ru-105	2.93E-02	2.93E-02	2.93E-02	2.93E-02	2.93E-02	2.93E-02	2.93E-02
Ru-106	1.26E+02	1.26E+02	1.26E+02	1.26E+02	1.26E+02	1.26E+02	1.26E+02

Table 2-8 (Continued)

LIQUID PATHWAY DOSE COMMITMENT FACTORS, A_{shore,I} FOR RELEASES TO THE TRAINING CENTER POND (mrem/hr per μCi/ml)

Nuclide	Bone	Liver	T.Body	Thyroid	<u>Kidney</u>	Lung	<u>GI-LLI</u>
Rh-103m	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Rh-106	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ag-110m	1.04E+03	1.04E+03	1.04E+03	1.04E+03	1.04E+03	1.04E+03	1.04E+03
Sb-124	3.13E+02	3.13E+02	3.13E+02	3.13E+02	3.13E+02	3.13E+02	3.13E+02
Sb-125	1.26E+03	1.26E+03	1.26E+03	1.26E+03	1.26E+03	1.26E+03	1.26E+03
Te-125m	4.62E-01	4.62E-01	4.62E-01	4.62E-01	4.62E-01	4.62E-01	4.62E-01
Te-127m	2.74E-02	2.74E-02	2.74E-02	2.74E-02	2.74E-02	2.74E-02	2.74E-02
Te-127	3.71E-04	3.71E-04	3.71E-04	3.71E-04	3.71E-04	3.71E-04	3.71E-04
Te-129m	5.94E+00	5.94E+00	5.94E+00	5.94E+00	5.94E+00	5.94E+00	5.94E+00
Te-129	5.62E-06	5.62E-06	5.62E-06	5.62E-06	5.62E-06	5.62E-06	5.62E-06
Te-131m	1.82E+00	1.82E+00	1.82E+00	1.82E+00	1.82E+00	1.82E+00	1.82E+00
Te-131	1.97E-11	1.97E-11	1.97E-11	1.97E-11	1.97E-11	1.97E-11	1.97E-11
Te-132	1.14E+00	1.14E+00	1.14E+00	1.14E+00	1.14E+00	1.14E+00	1.14E+00
I-130	8.48E-01	8.48E-01	8.48E-01	8.48E-01	8.48E-01	8.48E-01	8.48E-01
I-131	4.95E+00	4.95E+00	4.95E+00	4.95E+00	4.95E+00	4.95E+00	4.95E+00
I-132	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02	1.00E-02
I-133	4.99E-01	4.99E-01	4.99E-01	4.99E-01	4.99E-01	4.99E-01	4.99E-01
I-134	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05	1.07E-05
I-135	2.22E-01	2.22E-01	2.22E-01	2.22E-01	2.22E-01	2.22E-01	2.22E-01
Cs-134	2.02E+03	2.02E+03	2.02E+03	2.02E+03	2.02E+03	2.02E+03	2.02E+03
Cs-136	4.35E+01	4.35E+01	4.35E+01	4.35E+01	4.35E+01	4.35E+01	4.35E+01
Cs-137	3.08E+03	3.08E+03	3.08E+03	3.08E+03	3.08E+03	3.08E+03	3.08E+03
Cs-138	2.00E-08	2.00E-08	2.00E-08	2.00E-08	2.00E-08	2.00E-08	2.00E-08
Ba-139	7.96E-05	7.96E-05	7.96E-05	7.96E-05	7.96E-05	7.96E-05	7.96E-05
Ba-140	5.99E+00	5.99E+00	5.99E+00	5.99E+00	5.99E+00	5.99E+00	5.99E+00
Ba-141	1.08E-14	1.08E-14	1.08E-14	1.08E-14	1.08E-14	1.08E-14	1.08E-14
Ba-142	7.48E-23	7.48E-23	7.48E-23	7.48E-23	7.48E-23	7.48E-23	7.48E-23
La-140	4.66E+00	4.66E+00	4.66E+00	4.66E+00	4.66E+00	4.66E+00	4.66E+00
La-142	9.95E-04	9.95E-04	9.95E-04	9.95E-04	9.95E-04	9.95E-04	9.95E-04
Ce-141	4.04E+00	4.04E+00	4.04E+00	4.04E+00	4.04E+00	4.04E+00	4.04E+00
Ce-143	5.41E-01	5.41E-01	5.41E-01	5.41E-01	5.41E-01	5.41E-01	5.41E-01
Ce-144	2.08E+01	2.08E+01	2.08E+01	2.08E+01	2.08E+01	2.08E+01	2.08E+01
Pr-143	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Pr-144	1.58E-16	1.58E-16	1.58E-16	1.58E-16	1.58E-16	1.58E-16	1.58E-16
Nd-147	2.44E+00	2.44E+00	2.44E+00	2.44E+00	2.44E+00	2.44E+00	2.44E+00
W-187	4.99E-01	4.99E-01	4.99E-01	4.99E-01	4.99E-01	4.99E-01	4.99E-01
Np-239	4.41E-01	4.41E-01	4.41E-01	4.41E-01	4.41E-01	4.41E-01	4.41E-01

Figure 2-1
Liquid Radioactive Effluent Monitoring and Processing Diagram



3.0 GASEOUS EFFLUENTS

3.1 RADIATION MONITORING INSTRUMENTATION AND CONTROLS

This Section specifies the gaseous effluent monitoring instrumentation required at Davis-Besse for controlling and monitoring radioactive effluents. Location and control function of these monitors are displayed in Figure 3-1. More information is provided in the Davis-Besse USAR, Section 11.3, Gaseous Waste System.

The radioactive gaseous effluent monitoring instrumentation channels shown in Table 3-1 shall be FUNCTIONAL with their alarm/trip setpoints set to ensure that the limits of Section 3.3 are not exceeded. The alarm/trip setpoints of these channels shall be determined and adjusted in accordance with the methodology and parameters in Section 3.3.

With a radioactive gaseous effluent monitoring instrumentation channel alarm/trip setpoint less conservative than required, without delay suspend the release of radioactive gaseous effluents monitored by the affected channel, or declare the channel nonfunctional, or change the setpoint so it is acceptably conservative.

With less than the required number of radioactive gaseous effluent monitoring instrumentation channels FUNCTIONAL, take the actions shown in Table 3-1. Exert best efforts to return the instruments to FUNCTIONAL status within 30 days and, if unsuccessful, explain in the next Radioactive Effluent Release Report (Section 7.2) why the non-functionality was not corrected in a timely manner.

Each radioactive gaseous effluent monitoring instrumentation channel shall be demonstrated FUNCTIONAL by performance of the CHANNEL CHECK, SOURCE CHECK, CHANNEL CALIBRATION and CHANNEL FUNCTIONAL TEST operations at the frequencies shown in Table 3-2. Each of these operations shall be performed within the specified time interval with a maximum allowable extension not to exceed 25 percent of the specified interval.

NOTE: The monitors specified in Table 3-2 are nonfunctional if verifications are not performed or setpoints are less conservative than required.

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The radioactive gaseous effluent instrumentation is provided to monitor and control, as applicable, the releases of radioactive materials in gaseous effluents during actual or potential releases. The alarm/trip setpoints for these instruments shall be calculated in accordance with methods in Section 3.3 to ensure that the alarm/trip will occur prior to exceeding the limits of 10 CFR Part 20. The FUNCTIONALITY and use of this instrumentation is consistent with the requirements of General Design Criteria 60, 63 and 64 of Appendix A to 10 CFR Part 50.

3.1.1 Alarm and Automatic Release Termination

a) Waste Gas Decay System Monitor (RE-1822 A&B)

The radioactive waste gas discharge line is continuously monitored by two offline detectors, each measuring gross activity. The monitors' control function will terminate the waste discharge prior to exceeding the release rate limits of Section 3.3.2. Table 3-1 requires that the Waste Gas Decay System contain as a minimum the following instrumentation:

- noble gas activity monitor (RE-1822 A or B), and
- effluent system flow rate measuring device (FT-1821 or 1821 A).

If both noble gas monitors are declared nonfunctional, then the contents of the tank may be released provided that prior to the release:

- at least two independent gas samples are collected and analyzed by gamma spectroscopy for principal gamma emitters (noble gases),
- at least two independent verifications of the release rate calculations are performed, and
- at least two independent verifications of the discharge valve line-up are performed.

If the flow rate device is nonfunctional, effluent releases may continue provided that the flow rate is estimated at least once per 12 hours. Flow rates may be estimated based on fan curves or discharge valve header positioning.

b) Containment Purge Exhaust Filter Monitor (RE-5052 A,B&C)

This detector monitors the containment atmosphere for radioactivity during Containment VENT or PURGE. The noble gas activity monitor (Channel C) is required by Table 3-1. It provides an automatic termination of the release prior to exceeding the release rate limits of Section 3.3.2. Although not required in order to comply with Table 3.1, Channels A and B provide indications of increasing levels of particulate and radioiodine releases and terminate the release if their high alarm setpoint is exceeded.

3.1.2 Alarm Only

a) Station Vent Monitor (RE-4598 AA, BA)

The Station Vent is designed as the final release point for all gaseous radioactive effluents. Three separate channels (A, B, and C) are provided for each monitoring system. Channel A is a Silicon alpha beta particle monitor viewing a fixed particulate filter. Channel B is a Sodium Iodide detector viewing a fixed charcoal cartridge sampler. Channel C is a Silicon detector viewing a fixed air volume measuring for noble gases. Only the Channel C radiation detector is required by Table 3.1.

The Channel A and Channel B detectors provide information on potential particulate and radioiodine releases, respectively. However, those monitors experience wide variations in response due, in part, to the much more abundant noble gases in the effluent stream relative to the particulate or radioiodines being sampled. Therefore, while Channels A and B provide useful information for identifying particulate and radioiodine releases, they are not required by Table 3.1 for quantifying the release rate. Refer to Section 3.5.

The following sampling and/or monitoring instrumentation on the Station Vent is required by Table 3-1:

- noble gas activity monitor (Channel C),
- particulate sampler filter,
- iodine sampler cartridge,
- sampler flow rate measuring device, and
- unit vent total Flow Indicating Transmitter (FIT- computer points F883 or F885).

The hydrogen purge line serves as a Containment pressure relief route to the Station Vent. A separate radiation monitor on this line is not required. Any release through the hydrogen purge line will be monitored by the Station Vent monitor, RE-4598.

b) Waste Gas System Oxygen Monitors (AE 5984 and 6570)

The Waste Gas System is provided with two oxygen monitors (with an alarm function) as required by Table 3-1 to alert operators in the unlikely event of oxygen leakage into the waste gas header. The concentration of oxygen is limited to less than or equal to 2% by volume whenever the hydrogen concentration exceeds 4% by volume. An oxygen concentration above the specified limit will actuate a local and control room alarm (TS 5.5.11.a as implemented by TRM 8.7.5).

3.2 SAMPLING AND ANALYSIS OF GASEOUS EFFLUENTS

Radioactive gaseous wastes shall be sampled and analyzed in accordance with Table 3-3. This sampling and analysis ensures that the dose rates and doses from gaseous effluents remain below the release rate limits of Section 3.3.2, and the dose limits of Sections 3.7.1 and 3.8.1.

3.2.1 Batch Releases

Table 3-3 requires that a grab gas sample be collected and analyzed prior to each BATCH RELEASE from the Waste Gas Decay Tanks (WGDT) or a Containment PURGE. The analysis shall include the identification of all principal gamma emitters (noble gas) and tritium. Although not required by Table 3-3, Containment Pressure releases, Integrated Leak Rate Tests of Containment, and other tank venting operations are batch releases and shall be sampled similarly.

The results of the sample analysis are used to establish the acceptable release rate in accordance with Section 3.3.5. This evaluation is necessary to ensure compliance with the limits of Section 3.3.2.

3.2.2 <u>Continuous Release</u>

All releases from the Station Vent are required to be continuously sampled for radioactivity. As specified in Table 3-3, the following minimum samples and analyses are required:

- once per week, analysis of an absorption media (e.g., charcoal cartridge) for I-131,
- once per week, analysis of a filter sample for all principal gamma emitters (particulate radioactive material),
- once per month, analysis of a grab gas sample for all principal gamma emitters (noble gas) and tritium,
- once per month, analysis of a composite of the particulate samples of all releases for that month for gross alpha activity,
- once per quarter, analysis of a composite of the particulate samples for all releases for that quarter for Sr-89 and 90, and
- continuous monitoring for noble gases (gross beta and gamma activity).

3.2.3 Releases Resulting from Primary-to-Secondary System Leakage

Due to secondary coolant system contamination, there are several additional gaseous release points to consider:

- The Atmospheric Vent Valves (AVVs) weepage continuous ground level release
- Main Steam System Relief Valves (MSSVs) batch ground level release
- Auxiliary Feed Pump Turbines (AFPTs) batch ground level release
- Auxiliary Steam System Relief Valves (235#, 15#, 50#, 5# Relief Valves) batch ground level release
- Auxiliary Boiler Relief Valve batch ground level release
- Steam Packing Exhauster (SPE) continuous ground level release

Steam may be released via any of these points due to improper valve seating. Steam may be released via the MSSVs and AVVs if the plant trips, or via the AVVs during a condenser outage. Steam is released through the AFPTs during their operation. Steam may be released due to overpressurization of the Auxiliary Steam System via the relief valves on the various steam headers. Gland Steam from the High and Low Pressure Turbine labyrinth gland seals, and valve stem steam leakage from the Turbine Control Valves and Combined Intermediate Valves are released during normal plant operation from the Steam Packing Exhauster.

For secondary coolant system release pathways, the following minimum samples and analyses are required:

- once per week, analysis of a secondary system off-gas sample for principal gamma emitters (noble gases) and tritium;
- once per week, analysis of condensate sample for principal gamma emitters (iodines and particulates) and tritium;
- once per quarter, analysis of a composite of condensate samples for strontium-89 and strontium-90.

To supplement the above requirements, the moisture separator drain tank liquid may be analyzed for principal gamma emitters (iodines and particulants)

Liquid samples are analyzed from Condensate during normal operations, and from the Auxiliary Boiler during Modes 5 and 6. For Auxiliary Steam System Relief lifts that occur when the Auxiliary Boiler is the source of Auxiliary Steam, liquid samples from the Auxiliary Boiler are analyzed for principal gamma emitters (iodines and particulates) and tritium.

If only one steam generator has a primary-to-secondary leak, then radionuclides other than tritium are released through the valves on the leaking steam generator's main steam line. Demineralizing and gas stripping remove some radionuclides from the condensate prior to its return to the steam generator as feedwater. However, these processes do not remove tritium.

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3.3 GASEOUS EFFLUENT MONITOR SETPOINT DETERMINATION

3.3.1 Total Effective Dose Equivalent Limits

10 CFR 20.1301 limits the total effective dose equivalent, (TEDE), to individual members of the public from all licensed operations to 100 mrem in a year. At Davis-Besse, the total effective dose equivalent due to radioactive materials released in gaseous effluents at the boundary of the unrestricted area shall be limited to 50 mrem in a year.

3.3.2 Release Rate Limits

All releases of gaseous radioactive effluents are designed to occur via the Station Vent. Station Vent alarm setpoints shall be established to ensure the release rate of noble gas, iodine and particulate effluent does not exceed any 10 CFR limit at or beyond the site boundary. For batch and intermittent releases (e.g. containment purges, etc.), compliance may be demonstrated by ensuring that:

Noble gas: A dose rate less than or equal to 500 mrem/year to the total body, and a dose rate less than or equal to 3000 mrem/year to the skin,

And

Iodine 131, Iodine 133, Tritium, and all radionuclides in particulate form with half-lives greater than 8 days: A dose rate less than or equal to 1500 mrem/year to any organ.

Should dose rate(s) exceed the above limits, without delay restore the release rate to within the above limit(s).

These requirements ensure that the total effective dose equivalent at the UNRESTRICTED AREA BOUNDARY from gaseous effluents will be within the annual dose limits of 10 CFR Part 20 for individual members of the public.

For INDIVIDUAL MEMBERS OF THE PUBLIC who may at times be within the UNRESTRICTED AREA BOUNDARY, the occupancy of that MEMBER OF THE PUBLIC will be sufficiently low to compensate for any increase in the atmospheric diffusion factor above that for the UNRESTRICTED AREA BOUNDARY.

3.3.3 Individual Release Radiation Monitor Setpoints

Although generic radiation monitor setpoints are normally used at Davis-Besse (see Section 3.3.4), setpoints may be established from a sample analysis of the applicable source (i.e., Station Vent, Waste Gas Decay Tanks, or Containment atmosphere), and the following equations:

$$SP_{TB} = \frac{\sum C_{i} * 500}{472 * \chi / Q_{NG} * VF * \Sigma (C_{i} * K_{i})}$$
(3-1)

$$SP_{S} = \frac{\sum C_{i} * 3000}{472 * \chi / Q_{NG} * VF * \Sigma (C_{i} * (L_{i} + 1.1 M_{i}))}$$
(3-2)

where:

 SP_{TB} = monitor setpoint corresponding to the release rate limit for the total body dose rate of 500 mrem per year (μ Ci/ml),

 SP_S = monitor setpoint corresponding to the release rate limit for the skin dose rate of 3000 mrem per year (μ Ci/ml),

500 = total body dose rate limit (mrem/yr),

3000 = skin dose rate limit (mrem/yr),

 χ/Q_{NG} = atmospheric χ/Q value for direct exposure to noble gas at the UNRESTRICTED AREA BOUNDARY given in Table 3-6 (sec/m³),

VF = ventilation system flow rate for the applicable release point and monitor (ft³/minute),

C_i = concentration of noble gas radionuclide "i" as determined by gamma spectral analysis of grab sample (μCi/ml),

 K_i = total body dose conversion factor for radionuclide "i" (mrem/yr per $\mu \text{Ci/m}^3$) from Table 3-5,

 L_i = beta skin dose conversion factor for radionuclide "i" (mrem/yr per $\mu \text{Ci/m}^3$) from Table 3-5,

 M_i = gamma air dose conversion factor for radionuclide "i" (mrad/yr per $\mu Ci/m^3$) from Table 3-5,

1.1 = mrem skin dose per mrad gamma air dose (mrem/mrad), and

 $472 = 28,317 \text{ (ml/ft}^3) * 1/60 \text{ (min/sec)}.$

The lesser value of SP_{TB} or SP_S is used to establish the monitor setpoint.

The Station Vent monitor (RE-4598) efficiencies and read outs are in μ Ci/ml; however, the Containment Purge Exhaust Monitor (RE-5052) and the WGDT monitor (RE-1822) efficiencies and readouts are in counts per minute. Therefore, for RE-5052 and RE-1822, the setpoints in μ Ci/ml must be corrected to an equivalent monitor counts per minute. The monitor calibration curves are used for determining specific radionuclide efficiencies (cpm per μ Ci/ml).

Normally, the monitor for Xe-133 efficiency is used in lieu of the efficiency values for the individual radionuclides. Xe-133 is used because it is the predominant inert gas found in station gaseous releases. The use of Xe-133 efficiency provides a conservative value for alarm setpoint determination.

3.3.4 Conservative, Generic Radiation Monitor Setpoints

Normally, generic alarm setpoints are established instead of those determined by individual radionuclide analysis. This approach eliminates the need to adjust the setpoint periodically to reflect minor changes in radionuclide distribution or release flow rate. Therefore, the more restrictive setpoint is based on the total body dose rate limit and may be calculated using equation (3-1). Again, Xe-133 monitor efficiency is used for conservatism. Xe-133 is used because it is the predominant inert gas in station gaseous releases. The alarm setpoints are controlled for RE-4598, RE-5052, and RE-1822 in accordance with the Radiation Monitor Setpoint Manual.

3.3.5 Release Flow Rate Evaluation For Batch Releases

To comply with the release rate limits of Section 3.3.2, each batch release shall be evaluated for maximum release flow rate prior to being released. Based on noble gas concentration, and the radioiodine, particulate, and tritium concentration in the sample as collected in accordance with Table 3-3, the allowable release rate is determined based on equations (3-3), (3-4) and (3-5). The smallest value of RR_{tb}, RR_s or RR_{INH} is used as the maximum allowable release flow rate.

To determine RR_{INH} exactly, a separate RR_{INH} must be calculated for every organ in every age group (28 values of RR_{INH}). The smallest of these 28 is the RR_{INH} which is compared to RR_{tb} and RR_s to determine maximum allowable release rate. A conservative shortcut is to calculate RR_{INH} once by using the largest inhalation dose factor (R_{io} from Table 3-7) for any organ of any age group for each nuclide released. The largest dose factors in the inhalation pathway are usually for the teen lung.

$$RR_{tb} = \frac{500}{472 * \chi / Q_{NG} * \Sigma (K_i * CNG_i)}$$
(3-3)

$$RR_{S} = \frac{3000}{472 * \chi / Q_{NG} * \Sigma((L_{i} + 1.1 M_{i}) * CNG_{i})}$$
(3-4)

$$RR_{INH} = \frac{1500}{472 * \chi / Q_{INH} * \Sigma (R_{io} * CINH_{i}) * DF_{IP}}$$
(3-5)

where:

RR_{tb}	=	allowable release flow rate so as not to exceed a total body dose rate of 500 mrem/yr ($\rm ft^3/minute$),
RR_s	=	allowable release flow rate so as not to exceed a skin dose rate of 3000 mrem/yr (ft³/minute),
RR _{INH}	=	allowable release flow rate so as not to exceed an inhalation dose rate of 1500 mrem/yr (ft³/min),
500	=	total body dose rate limit at the UNRESTRICTED AREA BOUNDARY (mrem/yr),
3000	=	skin dose rate limit at the UNRESTRICTED AREA BOUNDARY (mrem/yr),
1500	=	inhalation dose rate limit at the UNRESTRICTED AREA BOUNDARY (mrem/yr),
472	=	28317 (ml/ft ³) * 1/60 (min/sec),
$\chi/Q_{\rm NG}$	=	atmospheric χ/Q value for direct exposure to noble gas at the UNRESTRICTED AREA BOUNDARY given in Table 3-6 (sec/m³),
$\chi/Q_{\rm INH}$	=	atmospheric χ/Q value for inhalation at the UNRESTRICTED AREA BOUNDARY given in Table 3-6 (sec/m³),
$K_{\rm i}$	=	total body dose conversion factor for radionuclide "i" (mrem/yr per $\mu \text{Ci/m}^3)$ from Table 3-5,
L_{i}	=	beta skin dose conversion factor for radionuclide "i" (mrem/yr per $\mu \text{Ci/m}^3$) from Table 3-5,
$M_{\rm i}$	=	gamma air dose conversion factor for radionuclide "i" (mrad/yr per $\mu \text{Ci/m}^3$) from Table 3-5,
R_{io}	=	dose factor for radionuclide; to organ "o" of age group a given in Table 3-7 (mrem/yr per $\mu \text{Ci/m}^3$),
CNG_{i}	=	concentration of noble gas radionuclide "i" analyzed in grab samples,
$CINH_{i}$	=	concentration of tritium, radioiodine, or particulate radionuclide "i" analyzed in grab samples, and
$\mathrm{DF}_{\mathrm{IP}}$	=	0.01 which is a removal factor of 100 for radioiodines and particulates when the effluent is processed through an absolute filter (do <u>not</u> use for tritium).

The actual release rate may be set lower than the maximum allowable release rate to provide an additional assurance that the release rate limits of Section 3.3.2 are not exceeded.

3.4 UNRESTRICTED AREA BOUNDARY DOSE RATE CALCULATION - NOBLE GAS

If an effluent noble gas monitor exceeds the alarm setpoint, then an evaluation of compliance with the release rate limits of Section 3.3.2 must be performed using actual release conditions. This evaluation requires collecting a sample of the effluent to establish actual radionuclide concentrations and monitor response.

The following equations may be used for evaluating compliance with the release rate limit of Section 3.3.2 for noble gases:

$$D_{tb} = 472 * \chi / Q_{NG} * VF * \Sigma (K_i * C_i)$$
 (3-6)

$$D_{s} = 472 * \chi / Q_{NG} * VF * \Sigma ((L_{i} + 1.1 M_{i}) * C_{i})$$
(3-7)

where:

 D_{tb} = total body dose rate (mrem/yr),

 D_s = skin dose rate (mrem/yr),

 χ/Q_{NG} = atmospheric χ/Q for direct exposure to noble gases at the UNRESTRICTED AREA BOUNDARY given in Table 3-6 (sec/m³),

VF = ventilation system flow rate (ft³/min),

C_i = concentration of radionuclide "i" as measured in sample (μCi/ml),

 K_i = total body dose conversion factor for noble gas radionuclide "i" (mrem/yr per μ Ci/m³) from Table 3-5,

L_i = beta skin dose conversion factor for noble gas radionuclide "i"

(mrem/yr per $\mu \text{Ci/m}^3$) from Table 3-5,

 M_i = gamma air dose conversion factor for noble gas radionuclide "i"

(mrad/yr per μ Ci/m³) from Table 3-5,

1.1 = mrem skin dose per mrad gamma air dose (mrem/mrad), and

 $472 = 28,317 \text{ (ml/ft}^3) * 1/60 \text{ (min/sec)}.$

3.5 UNRESTRICTED AREA BOUNDARY DOSE RATE CALCULATION - RADIOIODINE, TRITIUM, AND PARTICULATES

3.5.1 Dose Rate Calculation

Section 3.3.2 limits the dose rate to \leq 1500 mrem/yr to any organ for gaseous releases of I-131, tritium and all particulates with half-lives greater than 8 days. To demonstrate compliance with this limit, an evaluation is performed in accordance with Table 3-3 (nominally once per 7 days). The following equation may be used for the dose rate evaluation:

$$D_{0} = \chi / Q_{INH} * \Sigma (R_{i0} * Q_{i})$$
 (3-8)

where:

 D_o = dose rate to organ "o" over the sampling time period (mrem/yr)

 χ/Q_{INH} = atmospheric χ/Q value for inhalation at the UNRESTRICTED AREA BOUNDARY given in Table 3-6 (sec/m³),

bootybrikt given in ruble 5 0 (see in),

 R_{io} = dose factor to organ_o from radionuclide "i" for the controlling age group via the inhalation pathway (mrem/yr per μ Ci/m³) from Table 3-7, and

Q_i = average release rate over the appropriate sampling period and analysis frequency for radionuclide "i" (μCi/sec).

3.5.2 <u>Simplified Dose Rate Evaluation for Radioiodine, Tritium and Particulates</u>

It is conservative to evaluate dose rates by applying the I-131 dose factor to the collective releases for all measured radionuclides. By substituting 1500 mrem/yr for the dose rate to organ "o" in Equation (3-8) and solving for Q_i , an allowable release rate can be determined. Based on the annual average meteorological dispersion (see Table 3-6) and the I-131 dose factor for the most limiting potential pathway, age group and organ (inhalation, child, thyroid - $R_{io} = 1.62E + 07$ mrem/yr per $\mu Ci/m^3$), the allowable release rate is 26.5 $\mu Ci/sec$. An added conservatism factor of 0.8 has been included in this calculation to account for any potential dose contribution from other radioactive particulate material.

For a 7-day period, which is the nominal sampling and analysis frequency, the cumulative release would be 16.0 Ci. Therefore, as long as the total radioiodine, tritium, and particulate releases in any 7-day period do not exceed 16.0 Ci, no additional analyses are needed to verify compliance with the Section 3.3.2 limits on allowable release rate.

3.6 QUANTIFYING ACTIVITY RELEASED

NRC Regulatory Guide 1.21 requires reporting the quantities of individual radionuclides released in gaseous effluents. Therefore, these quantities shall be determined.

3.6.1 Quantifying Noble Gas Activity Released Using a Grab Sample or RE-4598

The quantification of continuous noble gas effluents is based on sampling and analysis of the Station Vent effluent. The monitor, RE-4598, provides a measurement of gross radioactive material concentration in the effluent. As required by Table 3-3, a gas sample is collected at least monthly from the Station Vent. And, as discussed in Section 3.2.2, this sample is analyzed by gamma spectroscopy to identify principal gamma emitting radionuclides (noble gases). The results of the analysis are used to determine the quantities of radionuclides released. This simplified approach reasonably quantifies the continuous release provided that no atypical levels have been observed (e.g., alert setpoint being exceeded).

Based on the actual grab sample analysis, the release quantities are determined by using the following equation:

$$Q_i = 28,317 * VF * T * C_i * 1E-06$$
 (3-9)

where:

Q_i = total activity released of radionuclide_i (Ci),

 $28,317 = \text{milliliters per ft}^3,$

VF = ventilation system flow rate (ft³/min),

T = release duration (min),

 $1E-06 = Ci per \mu Ci, and$

 C_i = concentration of radionuclide "i" as measured in the grab sample $(\mu Ci/ml)$.

As an alternative method, the average noble gas reading for the release period can be used to quantity individual noble gas radionuclides released provided a normal isotopic mixture of gases is present by using the following equation:

$$Q_{i} = 28,317 * \frac{A_{i}}{\sum A_{i}} * C * VF * T$$
 (3-10)

where:

 Q_i = total activity released of radionuclide "i" (μ Ci),

 $28,317 = \text{milliliters per ft}^3$,

A_i = activity concentration of radionuclide "i" from the gamma spectral analysis of a grab sample from the release point (μCi/ml),

C = average gross activity concentration over the release period as measured by the noble gas monitor excluding any BATCH RELEASES (μCi/ml),

VF = ventilation system flow rate (ft³/min), and

T = release duration (min).

3.6.2 Quantifying Noble Gas Activity Released While RE-4598AA and BA, Channel C Are Inoperable

With both Station Vent radiation monitors inoperable (i.e., RE-4598 AA and BA, Channel C), the alarm functions are also nonfunctional. The once-per-8 hours grab samples provide for continued quantification of releases in accordance with Table 3-1 requirements. Analysis of grab samples provides the radionuclide concentrations in the effluent. The flow measurement device (or flow rate estimate) and the release duration provide the total volume released. With these, the total amount of radioactive material released can be determined by using equation 3-9.

3.6.3 Quantifying Radioiodine, Tritium, and Particulate Activity Released

For radioiodine and particulates:

$$Q_{i} = \frac{A_{i} * \lambda_{i} * t * v * 1E - 06}{\left(l - e^{-\lambda_{i}t}\right) * s * 0.72}$$
(3-11)

where:

Q_i = total activity released of radionuclide_i (Ci),

 A_i = activity of radionuclide_i measured on filter media (μ Ci),

 λ_i = decay constant of radionuclide; (hr⁻¹),

t = release duration (hr),

v = total vent system flow for sampling period (cc),

 $1E-06 = Ci per \mu Ci,$

s = total flow through sampler (cc), and

0.72 = isokinetic flow correction factor for normal range station vent skid RE 4598 AA or BA filter media.

For Tritium:

$$Q = \frac{C * W * V * 1E - 06}{0.9 * S}$$
 (3-12)

where:

Q = total activity of tritium released (Ci),

C = tritium concentration in gas washing bottle (μ Ci/ml),

W = volume of water added to gas washing bottle (ml),

V = total vent system flow for release period (cc),

 $1E-06 = Ci per \mu Ci$

0.9 = efficiency for collection of tritium, and

S = total sample volume through gas washing bottle (cc).

3.6.4 Quantifying Ground Level Releases Activity

The ground level releases listed in Section 3.2.3 do not exhaust through Station Vent nor are directly sampled for activity. The condensate sample is used to calculate the postulated iodine and particulates activities and a portion of the tritium and noble gas activity. The off-gas sample supplement the tritium and noble gas activities released (due to partitioning factors, over 99.9% of iodines and particulates are in the condensate and moisture separator drain tank liquid). The results of the sampling program are used to indirectly quantify the activity released as follows:

$$Q_{i} = T[(M*7.564)(C_{ic} + 0.065*P*C_{im}) + (F*28317*C_{is}*M/M_{c})]$$

where:

 Q_i = total activity released of radionuclide $_i$ (μ Ci),

T = duration of release (min),

M = mass flow rate of release (lbs/hr),

 M_c = mass flow rate of condensate (lbs/hr),

$$7.564 = \frac{1}{60} \text{ hr/min} * (3785 \text{ cc/}8.34 \text{ lbs}),$$

 C_{ic} = concentration of radionuclide in condensate ($\mu Ci/cc$),

0.065 = mass flow rate ratio of moisture separator drain to condensate, P = fraction of moisture separator drain flow routed to feedwater, C_{im} = concentration of radionuclide in moisture separator drain (μ Ci/cc), F = flowrate of off-gas system (ft³/min), 28317 = cc per ft³

 C_{is} = concentration of radionuclide; in off-gas sample ($\mu Ci/cc$)

3.7.1 UNRESTRICTED AREA Dose - Limits

Cumulative dose contributions for the current calendar quarter and current calendar year for noble gases shall be determined in accordance with the methodology and parameters in this Section or the methodology used in GASPAR II (NUREG/CR-4653) at least once per 31 days. This periodic assessment of releases of noble gases is to evaluate compliance with the quarterly dose limits and calendar year limits.

The air dose due to noble gases released in gaseous effluents to areas at and beyond the UNRESTRICTED AREA BOUNDARY shall be limited to the following:

- during any calendar quarter: less than or equal to 5 mrad for gamma radiation and less than or equal to 10 mrad for beta radiation, and
- during any calendar year: less than or equal to 10 mrad for gamma radiation and less than or equal to 20 mrad for beta radiation.

With the calculated air dose from radioactive noble gases in gaseous effluents exceeding any of the above limits, prepare and submit to the Commission within 60 days, pursuant to Section 7.3, a Licensee Event Report that identifies the cause(s) for exceeding the limit(s) and defines the corrective actions that have been taken to reduce the releases and the proposed corrective actions to be taken to assure that subsequent releases will be in compliance with the above limits.

This specification is provided to implement the requirements of Section II.B, III.A and IV.A of Appendix I, 10 CFR Part 50. The limits specified above provide the required operating flexibility and at the same time implement the guides set forth in Section IV.A of Appendix I to assure that the releases of radioactive material in gaseous effluents will be kept "as low as is reasonably achievable." This Section implements the requirements of Section III.A of Appendix I that conformance with the guides of Appendix I to be shown by calculational procedures based on models and data such that the actual exposure of an individual through the appropriate pathways is unlikely to be substantially underestimated. The dose calculations established for calculating the doses due to the actual release rates of radioactive noble gases in gaseous effluents are consistent with the methodology provided in Regulatory Guide 1.109, "Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR Part 50, Appendix I," Revision 1, October 1977 and Regulatory Guide 1.111, "Methods for Estimating Atmospheric Transport and Dispersion of Gaseous Effluents in Routine Releases from Light-Water-Cooled Reactors," Revision 1, July 1977.

3.7.2 Dose Calculations - Noble Gases

The following equations may be used to calculate the gamma-air and beta-air doses:

$$D\lambda = 3.17E - 08 * \chi / Q_{NG} * \Sigma (M_i * Q_i)$$
 (3-13)

$$D\beta = 3.17E - 08 * \chi / Q_{NG} * \Sigma (N_i * Q_i)$$
(3-14)

where:

 $D\lambda$ = air dose due to gamma emissions for noble gas radionuclides (mrad),

 $D\beta$ = air dose due to beta emissions for noble gas radionuclides (mrad),

 χ/Q_{NG} = atmospheric χ/Q value for direct exposure to noble gas at the UNRESTRICTED AREA BOUNDARY given in Table 3-6 (sec/m³),

 Q_i = cumulative release of noble gas radionuclide "i" over the period of interest (μ Ci),

 M_i = air dose factor due to gamma emissions from noble gas radionuclide "i" (mrad/yr per μ Ci/m³) from Table 3-5,

 N_i = air dose factor due to beta emissions from noble gas radionuclide "i" (mrad/yr per μ Ci/m³) from Table 3-5, and

3.17E-08 = 1/3.15E+07 (yr/sec).

3.7.3 <u>Simplified Dose Calculation for Noble Gases</u>

In lieu of the individual noble gas radionuclide dose assessment presented above, the following simplified equations may be used for verifying compliance with the dose limits of Section 3.7.1. (Refer to Appendix B for the derivation and justification of this simplified method.)

$$D\lambda = 2.0 * 3.17E - 08 * \chi / Q_{NG} * M_{eff} * \Sigma Q_{i}$$
 (3-15)

and

$$D\beta = 2.0 * 3.17E - 08 * \chi / Q_{NG} * N_{eff} * \Sigma Q_{i}$$
 (3-16)

where:

 M_{eff} = 5.7E+02, effective gamma-air dose factor from Appendix B (mrad/yr per μ Ci/m³),

 N_{eff} = 1.1E+03, effective beta-air dose factor from Appendix B (mrad/yr per $\mu Ci/m^3$), and

2.0 = conservatism factor to account for potential variability in the radionuclide distribution.

3.8 RADIOIODINE, TRITIUM AND PARTICULATE DOSE CALCULATIONS - 10 CFR 50

3.8.1 UNRESTRICTED AREA Dose Limits

A periodic assessment is required to evaluate compliance with the quarterly dose limit and the calendar year limit to any organ. Cumulative dose contributions for the current calendar quarter and current calendar year for I-131, tritium, and radionuclides in particulate form with half-lives greater than 8 days shall be determined in accordance with the methodology and parameters in this Section or the methodology used in GASPAR II (NREG/CR-4653) at least once per 31 days.

The dose to a MEMBER OF THE PUBLIC from I-131, tritium and all radionuclides in particulate form with half-lives greater than 8 days in gaseous effluents released to areas at and beyond the UNRESTRICTED AREA BOUNDARY shall be limited to the following:

- During any calendar quarter: less than or equal to 7.5 mrem to any organ, and
- During any calendar year: less than or equal to 15 mrem to any organ.

With the calculated dose from the release of iodine-131, tritium and radionuclides in particulate form with half-lives greater than 8 days in gaseous effluents exceeding any of the above limits, prepare and submit to the Commission within 60 days, pursuant to Section 7.3, a Licensee Event Report that identifies the cause(s) for exceeding the limit and defines the corrective actions that have been taken to reduce the releases and the proposed corrective actions to be taken to assure that subsequent releases will be in compliance with the above limits.

This requirement is provided to implement the requirements of Section II.C, III.A, and IV.A of Appendix I, 10 CFR Part 50. The limits are the guides set forth in Section II.C of Appendix I. The actions specified provide the required operating flexibility and at the same time implement the guides set forth in Section IV.A of Appendix I to assure that the releases of radioactive materials in gaseous effluents will be kept "as low as is reasonably achievable." The ODCM calculational methods specified in this Section implement the requirements in Section III.A of Appendix I that conformance with the guides of Appendix I be shown by calculational procedure based on models and data such that the actual exposure of an individual through appropriate pathways is unlikely to be substantially underestimated. The ODCM methods for calculating the doses due to the actual release rates of the subject materials are consistent with the methodology provided in Regulatory Guide 1.109, "Calculating of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10 CFR 50, Appendix I", Revision 1, October 1977 and Regulatory Guide 1.111, "Methods for Estimating Atmospheric Transport and Dispersion of Gaseous Effluents in Routine Releases from Light-Water-Cooled Reactors," Revision 1, July 1977.

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The release rate specifications for radioiodines and radioactive material in particulate form are dependent on the existing radionuclide pathways to man in the UNRESTRICTED AREA. The pathways which are examined in the development of these calculations are:

- individual inhalation of airborne radionuclides,
- deposition of radionuclides into green leafy vegetation with subsequent consumption by man,
- deposition onto grassy areas where milk animals and meat-producing animals graze with consumption of the milk and meat by man, and
- deposition on the ground with subsequent exposure of man.

3.8.2 Critical Pathway

The critical pathway is that exposure pathway, age group, organ, and receptor location for which the maximum dose is calculated due to a given gaseous release of radionuclides. Determination of the critical pathway is made as part of the Annual Land Use Census. As part of this process, the maximum exposure pathway is determined for each directional sector in the area surrounding Davis-Besse. The maximum exposure pathways for each sector are listed in Table 3-4. The critical pathway is chosen from among the maximum pathways for each sector and is listed in Table 3-6.

Only the dose via the critical pathway identified in Table 3-6 need be evaluated for compliance with the dose limits of Section 3.8.1. Dose shall be calculated to the organ with the highest dose factor for the controlling age group to determine the maximum organ dose. The dose factors for organs of the various age groups are listed by exposure pathway in Tables 3-7 through 3-12. The meteorological dispersion values used (Table 3-6) may be those derived from current Land Use Census or those created by XOQDOQ.

3.8.3 Dose Calculations - Radioiodine, Tritium and Particulates

The following equation may be used to evaluate the maximum organ dose due to releases of iodine-131, tritium and particulates with half-lives greater than 8 days:

$$D_{aop} = 3.17E - 08 * W * ICF * SF * \Sigma (R_{io} * Q_i)$$
 (3-17)

Where:

D_{aop} = dose or dose commitment to organ "o" via controlling pathway "p" and age group "a" as identified in Table 3-6 (mrem),

W = atmospheric dispersion factor to the controlling location as identified in Table 3-6

W = χ/Q , dispersion factor for inhalation pathway and H-3 dose contribution via all pathways (sec/m³)

W = D/Q, deposition factor for vegetation, milk and ground plane exposure pathways (m⁻²),

 R_{io} = dose factor for radionuclide "i" to organ "o" of age group "a" via pathway "p" as identified in Table 3-7, 3-8, 3-9, 3-10, 3-11, or 3-12 depending on the pathway specified (mrem/yr per μ Ci/m³) or (m² - mrem/yr per μ Ci/sec),

Q_i = cumulative release over the period of interest for radionuclide "i" (μCi),

ICF = elemental iodine correction factor which may be used in calculating doses from radioiodines via the vegetation, milk, and ground plane exposure pathways = 0.5,

SF = seasonal correction factor which may be used for milk and vegetation pathways = 0.5, and

3.17E-08 = 1/3.15E+07 (yr/sec).

The dose factors in Tables 3-7 through 3-12 are derived in accordance with NUREG-0133. The elemental iodine correction factor in equation (3-17) is referenced in Regulatory Guide 1.109.

3.8.4 <u>Simplified Dose Calculation for Radioiodine, Tritium and Particulates</u>

In lieu of the individual radionuclide dose assessment presented in equation (3-17) the following simplified dose calculation may be used for verifying compliance with the dose limits of Section 3.8.1:

$$D_{\text{max}} = 3.17E - 08 * W * ICF * SF * R_{I-131} * \Sigma Q_{i}$$
 (3-18)

where:

 D_{max} = maximum organ dose (mrem),

 R_{I-131} = I-131 dose factor for the thyroid for the controlling pathway identified in Table 3-6, and

 ΣQ_i = sum of the activities of all radioiodines, tritium and particulates (μC_i).

The ground plane exposure and inhalation pathways need not be considered when the simplified method is used because of the negligible contribution of these pathways to the total thyroid dose. It is recognized that for some particulate radionuclides (e.g., Co-60 and Cs-137), the ground exposure pathway may represent a higher dose contribution than either the vegetation or milk pathway. However, use of the I-131 thyroid dose factor for all radionuclides will maximize the organ dose calculation, especially considering that no other radionuclide has a higher dose factor for any organ via any pathway than I-131 for the thyroid via the vegetable or milk pathway.

3.9 GASEOUS EFFLUENT DOSE PROJECTION

As with liquid effluents, gaseous effluents require processing if the projected dose exceeds specified limits. This requirement implements the requirements of 10 CFR 50.36a on maintaining and using the appropriate radwaste processing equipment to keep releases ALARA.

The GASEOUS RADWASTE TREATMENT SYSTEM (i.e., Waste Gas Decay Tank) shall be used to reduce noble gas levels prior to discharge when the projected air dose due to gaseous effluent releases to areas at and beyond the UNRESTRICTED AREA BOUNDARY would exceed 0.2 mrad for gamma radiation and 0.4 mrad for beta radiation in a 31 day period (i.e., one quarter of the design objective rate).

The VENTILATION EXHAUST TREATMENT SYSTEM shall be used to reduce radioiodine and particulate effluents, prior to their discharge, when the projected dose due to gaseous effluents releases to areas at or beyond the UNRESTRICTED AREA BOUNDARY would exceed 0.3 mrem to any organ in a 31-day period. Figure 3-1 presents the gaseous effluent release points and the GASEOUS RADWASTE and VENTILATION EXHAUST TREATMENT SYSTEMS applicable for reducing effluents prior to release.

With the gaseous waste being discharged without treatment and in excess of the limits, prepare and submit to the commission within 60 days, pursuant to Section 7.3 a Licensee Event Report that includes the following information:

- Explanation of why gaseous radwaste was being discharged without treatment, identification of any nonfunctional equipment or subsystems, and the reasons for the nonfunctionality,
- Actions taken to restore the nonfunctional equipment to FUNCTIONAL status, and
- Summary description of action(s) taken to prevent a recurrence.

The requirements that the appropriate portions of these systems be used, when specified, provides reasonable assurance that the releases of radioactive materials in gaseous effluents will be kept "as low as is reasonably achievable." This requirement implements the requirements of 10 CFR Part 50.36a, General Design Criterion 60 of Appendix A to 10 CFR Part 50. The specified limits governing the use of appropriate portions of the systems were specified as a suitable fraction of the dose design objectives set forth in Sections II.B and II.C of Appendix I, 10 CFR Part 50, for gaseous effluents.

If the GASEOUS RADWASTE and VENTILATION EXHAUST TREATMENT SYSTEMS are not being used, dose projections shall be performed at least once per 31 days using the following equations:

$$D\lambda_{p} = D\lambda^{*}(31/d) \tag{3-19}$$

$$D\beta_p = D\beta * (31/d)$$
 (3-20)

$$D_{\text{max p}} = D_{\text{max}} * (31/d)$$
 (3-21)

where:

 $D\lambda_p$ = projected 31-day gamma-air dose (mrad),

 $D\lambda$ = gamma-air dose for current calendar quarter (mrad),

 $D\beta_p$ = projected 31-day beta-air dose (mrad),

 $D\beta$ = beta-air dose for current calendar quarter (mrad),

 D_{maxp} = projected 31-day maximum organ dose (mrem),

 D_{max} = maximum organ dose for current calendar quarter as determined by equation

(3-17) or (3-18) (mrem),

d = number of days accounted for by current calendar quarter dose, and

31 = number of days in projection.

Table 3-1

<u>RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION</u>

INS	TRU	MENT_	REQUIRED CHANNELS	APPLICABILITY	<u>PARAMETER</u>	<u>ACTION</u>
1.		ste Gas Decay System (provides automatic ation)				
	a. 1	Noble Gas Activity Monitor (RE 1822A, B)	1	(1)	Radioactivity Measurement	A
	b.	Effluent System Flow Rate Measuring Device	1	(1)	System Flow Rate Measurement	В
2.	Wa	ste Gas System (provides alarm function)				
	a.	Oxygen Monitor (AE5984, AE6570)	1	(2)	% Oxygen	D
3.	Containment Purge Monitoring System (provides automatic isolation)					
	a.	Noble Gas Activity Monitor (RE 5052C)	1	(1)	Radioactivity measurement	C
4.		tion Vent Stack (provides alarm function) (4598AA,BA)				
	a.	Noble Gas Activity Monitor	1	(1)	Radioactivity Measurement	C*
	b.	Iodine Sampler Cartridge	1	(1)	Verify Presence of Cartridge	E*
	c.	Particulate Sampler Filter	1	(1)	Verify Presence of Filter	E*
	d.	Effluent System Flow Rate Measuring Device	1	(1)	System Flow Rate Measurement	B*
	e.	Sampler Flow Rate Measuring Device	1	(1)	Sampler Flow Rate Measurement	B*

^{*}This requirement is not applicable for routine replacement of sampling media or routine test.

TABLE NOTATION

- (1) During radioactive waste gas releases via this pathway.
- (2) During additions to the waste gas surge tank
- ACTION A With less than the number of required channels FUNCTIONAL, the contents of the tank may be released to the environment provided that prior to initiating the release:
 - 1. At least two independent samples are analyzed in accordance with Table 3-3 for analyses performed with each batch;
 - 2. At least two independent verifications of the release rate calculations are performed;
 - 3. At least two independent verifications of the discharge valving are performed.
- ACTION B With less than the number of required channels FUNCTIONAL, effluent releases via this pathway may continue provided the flow rate is estimated at least once per 12 hours.
- ACTION C With less than the number of required channels FUNCTIONAL, effluent releases via this pathway may continue provided grab samples are taken at least once per 8 hours and analyzed in accordance with applicable procedures.
- ACTION D With less than the number of required channels FUNCTIONAL, additions to the waste gas surge tank may continue provided another method for ascertaining oxygen concentrations, such as grab sample analysis, is implemented to provide measurements at least once per four (4) hours during degassing and daily during other operations.
- ACTION E With less than the number of required channels FUNCTIONAL, effluent releases via this pathway may continue provided samples are continuously collected with auxiliary sampling equipment, as required in Table 3-3 (this requirement is not applicable for routine replacement of sampling media or routine testing).

Table 3-2

RADIOACTIVE GASEOUS EFFLUENT MONITORING INSTRUMENTATION

VERIFICATION REQUIREMENTS

<u>IN</u>	STRU	J <u>MENT</u>	CHANNEL CHECK	SOURCE CHECK	CHANNEL CALIBRATION	CHANNEL FUNCTIONAL _ <u>TEST</u>
1.	Was	te Gas Decay System				
	a.	Noble Gas Activity Monitor (RE 1822A,B)	P ⁽¹⁾	P	$E^{(5)}$	Q ⁽³⁾
	b.	Effluent System Flow Rate	$P^{(1)}$	N/A	E	Q
2.	Cont	tainment Purge Vent System				
	a.	Noble Gas Activity Monitor (RE 5052C)	$D^{(1)}$	P ⁽⁷⁾ ;M ⁽⁸⁾	$E^{(5)}$	Q ⁽³⁾
3.	Stati	on Vent Stack				
	a.	Noble Gas Activity Monitor (RE 4598AA,BA)	$D^{(1)}$	M	E ⁽⁵⁾	Q ⁽⁴⁾
	b.	Iodine Sampler	$\mathbf{W}^{(1)}$	N/A	N/A	N/A
	c.	Particulate Sampler	$\mathbf{W}^{(1)}$	N/A	N/A	N/A
	d.	System Effluent Flow Rate Measurement Device	$D^{(1)}$	N/A	R	N/A
	e.	Sampler Flow Rate Measurement Device	$\mathbf{W}^{(1)}$	N/A	E	N/A

TABLE NOTATION

- (1) During radioactive waste gas releases via this pathway.
- (2) During additions to the waste gas surge tank.
- (3) The CHANNEL FUNCTIONAL TEST shall also demonstrate that automatic isolation of this pathway and control room alarm annunciation occurs if the instrument indicates measured levels above the alarm/trip setpoint.
- (4) The CHANNEL FUNCTIONAL TEST shall also demonstrate that control room alarm annunciation occurs if the instrument indicates measured levels above the alarm/trip setpoint.
- (5) The initial CHANNEL CALIBRATION for radioactivity measurement instrumentation shall be performed using one or more reference standards certified by the National Institute of Standards and Technology or using standards that have been obtained from suppliers that participate in measurement assurance activities with NIST. These standards should permit calibrating the system over its intended range of energy and rate capabilities. For subsequent CHANNEL CALIBRATION, sources that have been related to the initial calibration should be used, at intervals of at least once per eighteen months. For high range monitoring instrumentation, where calibration with a radioactive source is impractical, an electronic calibration may be substituted for the radiation source calibration.
- (6) The CHANNEL CALIBRATION shall include the use of standard gas samples containing a nominal:
 - 1. One volume percent oxygen, balance nitrogen; and
 - 2. Four volume percent oxygen, balance nitrogen.
- (7) During containment purges.
- (8) When used in a continuous mode.
- P Prior to each release.
- E At least once per 18 months (550 days).
- Q At least once per 92 days.
- D At least once per 24 hours.
- M At least once per 31 days.
- W At least once per 7 days.
- R At least once per 24 months (730 days)

Table 3-3
RADIOACTIVE GASEOUS WASTE SAMPLING AND ANALYSIS PROGRAM

		Minimum		Lower Limit of
Gaseous Release Type	Sampling	Analysis	Type of	Detection (LLD)
	Frequency	Frequency	Activity Analysis	(µCi/ml) ^a
	P	P		
	Each	Each	Principal Gamma Emitters ^C	1.0E-04
	Release	Release		
Waste Gas Decay	Grab Sample		H-3	1.0E-06
	P	P		
Containment Purge	Each Purge Grab Sample	Each Purge	Principal Gamma Emitters ^C	1.0E-04
	1		H-3	1.0E-06
	M	M		
Station Vent Stack	Grab Sample		Principal Gamma Emitters ^C	1.0E-04
			H-3	1.0E-06
		W		
	Continuous ^b	Charcoal	I-131, I-133	1.0E-12
	-	Sample		
		W	Principal Gamma	
	Continuous ^b	Particulate	Emitters ^C	1.0E-11
		Sample		
		M		
	Continuous ^b	Composite	~	
		Particulate	Gross Alpha	1.0E-11
		Sample		
	C h	Q		
	Continuous ^b	Composite	G., 90, G., 00	1.05.11
		Particulate	Sr-89, Sr-90	1.0E-11
	=	Sample		
	Continuous ^b	Noble Gas	Noble Gases	1.0E-06
		Monitor	Gross Beta or Gamma	

TABLE NOTATION

a. The LLD is the smallest concentration of radioactive material in a sample that will be detected with 95% probability with 5% probability of falsely concluding that a blank observation represents a "real" signal.

For a particular measurement system (which may include radio-chemical separation):

LLD =
$$\frac{4.66 \text{ s}_b}{\text{E * V * 2.22 * Y * exp}(-\lambda \Delta t)}$$

where

LLD is the lower limit of detection as defined above (as pCi per unit mass or volume);

s_b is the standard deviation of the background counting rate or of the counting rate of a blank sample as appropriate (as counts per minute);

E is the counting efficiency (as counts per transformation);

V is the sample size (in units of mass or volume);

2.22 is the number of transformations per minute per picocurie;

Y is the fractional radiochemical yield (when applicable);

 λ is the radioactive decay constant for the particular radionuclide;

 Δt for plant effluents is the elapsed time between the midpoint of sample collection and time of counting.

It should be recognized that the LLD is defined as an <u>a priori</u> (before the fact) limit representing the capability of a measurement system and not as <u>a posteriori</u> (after the fact) limit for a particular measurement.

b. The ratio of the sample flow rate to the sampled stream flow rate shall be known for the time period covered by each dose or dose rate calculation made in accordance with Sections 3.3.1 and 3.8.

Table 3-3 (Continued)

TABLE NOTATION

c. The principal gamma emitters for which the LLD specification will apply are exclusively the following radionuclides: Kr-87, Kr-88, Xe-133, Xe-133m, Xe-135, and Xe-138 for gaseous emissions and Mn-54, Fe-59, Co-58, Co-60, Zn-65, Mo-99, Cs-134, Cs-137, Ce-141 and Ce-144 for particulate emissions. This list does not mean that only these nuclides are to be detected and reported. Other peaks which are measured and identified, together with the above nuclides, shall also be identified and reported. Nuclides which are below the LLD for the analyses should be reported as "less than" the nuclide's LLD and should not be reported as being present at the LLD level for the nuclide. The "less than" values shall not be used in the required dose calculations. When unusual circumstances result in LLDs higher than required, the reasons shall be documented in the Radioactive Effluent Release Report.

Frequency notation:

- P Prior to each release.
- M At least once per 31 days.
- W At least once per 7 days.
- Q At least once per 92 days.

Table 3-4

<u>LAND USE CENSUS SUMMARY</u>

Exposure Pathway Locations and Atmospheric Dispersion Parameters**

Sector	Distance (miles)	Exposure Pathway	Controlling <u>Age Group</u>	χ/Q (sec/m ³)	D/Q (m ⁻²)
N	0.55	inhalation	child	1.56E-06	1.34E-08
NNE	0.55	inhalation	child	2.09E-06	2.34E-08
NE	0.56	inhalation	child	1.43E-06	2.32E-08
ENE*	-	-			-
E*	-	-			
ESE*	-	-			-
SE	4.94	inhalation	child	9.69E-09	1.53E-10
SSE	1.82	vegetation	child	4.58E-08	8.31E-10
S	3.10	vegetation	child	1.76E-08	2.66E-10
SSW	0.70	vegetation	child	2.23E-07	4.33E-09
SW	4.74	vegetation	child	1.49E-08	2.11E-10
WSW	4.00	vegetation	child	2.66E-08	3.68E-10
W	0.97	vegetation	child	3.28E-07	4.56E-09
WNW	0.94	inhalation	child	2.84E-07	2.94E-09
NW	0.93	inhalation	child	2.90E-07	2.55E-09
NNW	0.80	inhalation	child	4.83E-07	3.78E-09

Note: The meteorological dispersion factors are taken from the Chesapeake Nuclear Services report, <u>Davis-Besse Nuclear Power Station Meteorological and Atmospheric Dispersion Report,</u> November 2017.

^{*} Since these sectors are located over marsh areas and Lake Erie with no receptors, no ingestion or inhalation pathways are present.

^{**} There were no new Controlling locations identified during the 2020 Land Use Census.

Table 3-5

<u>DOSE FACTORS FOR NOBLE GASES</u>*

<u>Nuclide</u>	Total Body Gamma Dose Factor K _i (mrem/yr perµCi/m³)	Skin Beta Dose Factor L _i (mrem/yr per µCi/m³)	Gamma Air Dose Factor M _i (mrad/yr per <u>μCi/m³)</u>	Beta Air Dose Factor Ni (mrad/yr perµCi/m³)
Kr-83m	7.56E-02		1.93E+01	2.88E+02
Kr-85m	1.17E+03	1.46E+03	1.23E+03	1.97E+03
Kr-85	1.61E+01	1.34E+03	1.72E+01	1.95E+03
Kr-87	5.92E+03	9.73E+03	6.17E+03	1.03E+04
Kr-88	1.47E+04	2.37E+03	1.52E+04	2.93E+03
Kr-89	1.66E+04	1.01E+04	1.73E+04	1.06E+04
Kr-90	1.56E+04	7.29E+03	1.63E+04	7.83E+03
Xe-131m	9.15E+01	4.76E+02	1.56E+02	1.11E+03
Xe-133m	2.51E+02	9.94E+02	3.27E+02	1.48E+03
Xe-133	2.94E+02	3.06E+02	3.53E+02	1.05E+03
Xe-135m	3.12E+03	7.11E+02	3.36E+03	7.39E+02
Xe-135	1.81E+03	1.86E+03	1.92E+03	2.46E+03
Xe-137	1.42E+03	1.22E+04	1.51E+03	1.27E+04
Xe-138	8.83E+03	4.13E+03	9.21E+03	4.75E+03
Ar-41	8.84E+03	2.69E+03	9.30E+03	3.28E+03

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^{*} Dose factors taken from NRC Regulatory Guide 1.109

Table 3-6

EXPOSURE PATHWAYS, CONTROLLING PARAMETERS, AND ATMOSPHERIC DISPERSION FOR DOSE CALCULATIONS

Exposure Pathway	Receptor Location	A Controlling Age Group	tmospheric Dispe χ/Q (sec/m ³)	rsion D/Q (m ⁻²)	Use
noble gases direct exposure	UNRESTRICTED AREA BOUNDARY NNE		⁽³⁾ 3.10E-06	N/A	(a)
inhalation	UNRESTRICTED AREA BOUNDARY NNE	child	⁽⁴⁾ 2.80E-06	N/A	(a)
(critical pathway) garden	0.97 miles W	child	⁽¹⁾ 3.28E-07	⁽¹⁾ 4.56E-09	(b), (c)
Variable Dispersion Factors			(2)Variable	(2)Variable	(c), (d)

- (a) To calculate allowable release rates (Sections 3.3 through 3.8)
- (b) To reflect results of Land Use Census
- (c) To screen individual releases for dose and/or calculate 31 day dose
- (d) To calculate annual dose and/or calculate 31 day dose

NOTES:

- Meteorological dispersion values have been taken from the Chesapeake Nuclear Services report, <u>Davis-Besse Nuclear Power Station Meteorological and Atmospheric Dispersion</u> <u>Report</u>, November 2017.
- 2. Meterological dispersion values generated using XOQDOQ (NUREG/CR-2919) for input into GASPAR. Meterological data may be historic or real time.
- 3. The noble gas, direct exposure χ/Qs are based on the 2.26 day decayed, undepleted values.

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4. The inhalation pathway χ/Qs are based on the 8 day decayed, depleted values.

 $\frac{\text{R}_{\text{io}}, \text{INHALATION PATHWAY DOSE FACTORS}}{\text{ADULT (mrem/yr per } \mu \text{Ci/m}^3)}$

H-3	Nuclide	<u>Bone</u>	Liver	Thyroid	<u>Kidney</u>	Lung	<u>GI-LLI</u>	T.Body
C-14 1.82E+4 3.41E+3 1.02E+4 3.32E+3 1.00E+2 Mn-54 - 3.96E+4 - 9.84E+3 1.40E+6 7.74E+4 6.30E+3 Mn-56 - 1.24E+0 - 1.30E+0 9.44E+3 2.02E+4 1.83E-1 Fe-55 2.46E+4 1.70E+4 - - 7.21E+4 6.03E+3 3.94E+3 Fe-59 1.18E+4 2.78E+4 - - 1.02E+6 1.88E+5 1.06E+4 Co-58 - 1.58E+3 - - 9.28E+5 1.06E+5 2.07E+3 Ni-63 4.32E+5 3.14E+4 - - 5.60E+3 1.23E+4 9.12E-2 Cu-64 -	H-3	_	1.26E+3	1.26E+3	1.26E+3	1.26E+3	1.26E+3	1.26E+3
Na-24		1.82E+4						
P-32 Cr-51 1.32E+6 - 7.71E+4 - - - - - 8.64E+4 3.32E+3 5.01E+4 1.00E+2 Mn-54 Mn-56 - 3.96E+4 1.70E+4 - 9.84E+3 1.30E+0 1.40E+6 9.44E+3 2.02E+4 7.74E+4 1.83E-1 7.21E+4 6.30E+3 3.94E+3 3.94E+3 6-59 1.30E+0 1.02E+6 1.88E+5 1.06E+4 6.71E+2 3.94E+3 3.94E+3 1.06E+4 6.71E+2 2.0E+4 6.03E+3 3.94E+3 3.94E+3 1.06E+4 6.71E+2 Co-57 Co-57 - 6.92E+2 6.92E+2 - 1.02E+6 3.70E+5 1.37E+4 1.06E+4 6.71E+2 Co-58 Co-60 - 1.58E+3 6.71E+4 - 9.28E+5 9.28E+5 1.46E+4 1.06E+4 6.71E+2 Co-60 Co-60 - 1.15E+4 1.45E+4 - 5.97E+6 2.85E+5 1.48E+4 Ni-65 1.54E+0 2.10E-1 2.10E-1 1.45E+4 Ni-65 1.54E+0 2.10E-1 - 5.97E+6 2.85E+5 1.48E+4 Ni-65 1.34E+4 1.45E+4 Ni-65 1.34E+4 1.45E+4 Ni-65 1.54E+0 2.10E-1 - - 5.97E+6 2.85E+5 1.48E+4 Ni-65 1.34E+4 1.45E+4 Ni-65 1.23E+4 9.12E+2 2.02E+4 1.45E+4 Ni-65 1.23E+4 1.45E+4 Ni-65 1.23E+4 1.45E+4 Ni-65 1.23E+4 1.45E+4 Ni-65 1.23E+4 1.45E+4 Ni-65 1.23E+4 1.45E+4 1.45E+4 Ni-65 1.23E+4 1.45E+4 1.46E+4 1.45E+4 1.45E+4 1.45E+4 1.45E+4 1.45E+4 1.45E+4 1.45E+4 1.45E+4 1.46E+4 1.		-						
Cr-51 - 5.95E+1 2.28E+1 1.44E+4 3.32E+3 1.00E+2 Mn-54 - 3.96E+4 - 9.84E+3 1.40E+6 7.74E+4 6.30E+3 Mn-56 - 1.24E+0 - 1.30E+0 9.44E+3 2.02E+4 1.83E-1 Fe-55 2.46E+4 1.70E+4 - 7.21E+4 6.03E+3 3.94E+3 Fe-59 1.18E+4 2.78E+4 - 1.02E+6 1.88E+5 1.06E+4 Co-57 - 6.92E+2 - 3.70E+5 3.14E+4 6.71E+2 Co-60 - 1.15E+4 - - 5.97E+6 2.85E+5 1.48E+4 Ni-63 4.32E+5 3.14E+4 - - 7.96E+3 4.90E+4 6.15E-1 Zn-66 1.54E+0 2.10E-1 - 5.60E+3 1.23E+4 9.12E-2 Cu-64 - 1.46E+0 - 4.62E+0 6.78E+3 4.90E+4 6.15E-1 Zn-65 3.24E+4 1.03E+5 -								
Mn-54			-					
Mn-56 - 1.24E+0 - 1.30E+0 9.44E+3 2.02E+4 1.83E-1 Fe-55 2.46E+4 1.70E+4 - - 7.21E+4 6.03E+3 3.94E+3 Fe-59 1.18E+4 2.78E+4 - - 1.02E+6 1.88E+5 1.06E+4 Co-57 - 6.92E+2 - - 3.70E+5 3.14E+4 6.71E+2 Co-60 - 1.15E+4 - - 5.97E+6 2.85E+5 1.48E+4 Ni-63 4.32E+5 3.14E+4 - - 1.78E+5 1.34E+4 1.45E+4 Ni-63 1.54E+0 2.10E-1 - - 5.60E+3 1.23E+4 9.12E-2 Zn-65 3.24E+4 1.03E+5 - 6.90E+4 8.64E+5 5.34E+4 4.65E-1 Zn-69 3.38E-2 6.51E-2 - 4.22E-2 9.20E+2 1.63E+1 4.52E-3 Br-82 - - - - 1.04E+4 1.35E+4 Br-83	0101			3.332	2.202 1	11112	3.322.3	1.002 2
Fe-55 2.46E+4 1.70E+4 - 7.21E+4 6.03E+3 3.94E+3 Fe-59 1.18E+4 2.78E+4 - - 1.02E+6 1.88E+5 1.06E+4 Co-57 - 6.92E+2 - - 3.70E+5 3.14E+4 6.71E+2 Co-58 - 1.58E+3 - 9.28E+5 1.06E+5 2.07E+3 Ni-63 4.32E+5 3.14E+4 - - 1.78E+5 1.34E+4 1.45E+4 Ni-65 1.54E+0 2.10E-1 - 5.60E+3 1.23E+4 9.12E-2 Cu-64 - 1.46E+0 - 4.62E+0 6.78E+3 4.90E+4 6.15E-1 Zn-65 3.24E+4 1.03E+5 - 6.90E+4 8.64E+5 5.34E+4 4.66E+4 Zn-69 3.38E-2 6.51E-2 - 4.22E-2 9.20E+2 1.63E+1 4.25E-3 Br-83 - - - - 1.64E-3 3.13E+2 Br-85 - - -	Mn-54	-	3.96E+4	-	9.84E+3	1.40E+6	7.74E+4	6.30E+3
Fe-59	Mn-56	-	1.24E+0	-	1.30E+0	9.44E+3	2.02E+4	1.83E-1
Co-57 - 6.92E+2 - - 3.70E+5 3.14E+4 6.71E+2 Co-58 - 1.58E+3 - - 9.28E+5 1.06E+5 2.07E+3 Co-60 - 1.15E+4 - - 5.97E+6 2.85E+5 1.48E+4 Ni-63 4.32E+5 3.14E+4 - - 1.78E+5 1.34E+4 1.45E+4 Ni-65 1.54E+0 2.10E-1 - - 5.60E+3 1.23E+4 9.12E-2 Cu-64 - 1.46E+0 - 4.62E+0 6.78E+3 4.90E+4 6.15E-1 Zn-65 3.24E+4 1.03E+5 - 6.90E+4 8.64E+5 5.34E+4 4.66E+4 Zn-69 3.38E-2 6.51E-2 - 4.22E-2 9.20E+2 1.63E+1 4.52E-3 Br-82 - - - - - 1.04E+4 1.35E+4 Br-83 - - - - - 1.64E-3 3.13E+2 Br-84	Fe-55	2.46E+4	1.70E+4	-	-	7.21E+4	6.03E+3	3.94E + 3
Co-58 - 1.58E+3 - - 9.28E+5 1.06E+5 2.07E+3 Co-60 - 1.15E+4 - - 5.97E+6 2.85E+5 1.48E+4 Ni-63 4.32E+5 3.14E+4 - - 1.78E+5 1.34E+4 1.45E+4 Ni-65 1.54E+0 2.10E-1 - - 5.60E+3 1.23E+4 9.12E-2 Cu-64 - 1.46E+0 - 4.62E+0 6.78E+3 4.90E+4 6.15E-1 Zn-65 3.24E+4 1.03E+5 - 6.90E+4 8.64E+5 5.34E+4 4.66E+4 Zn-69 3.38E-2 6.51E-2 - 4.22E-2 9.20E+2 1.63E+1 4.52E-3 Br-82 - - - - - 2.32E+2 2.41E+2 Br-83 - - - - - 1.64E+3 3.13E+2 Br-85 - - - - - 1.66E+4 5.90E+4 Rb-88 - <td>Fe-59</td> <td>1.18E+4</td> <td>2.78E+4</td> <td>-</td> <td>-</td> <td>1.02E+6</td> <td>1.88E+5</td> <td>1.06E+4</td>	Fe-59	1.18E+4	2.78E+4	-	-	1.02E+6	1.88E+5	1.06E+4
Co-60 - 1.15E+4 - - 5.97E+6 2.85E+5 1.48E+4 Ni-63 4.32E+5 3.14E+4 - - 1.78E+5 1.34E+4 1.45E+4 Ni-65 1.54E+0 2.10E-1 - - 5.60E+3 1.23E+4 9.12E-2 Cu-64 - 1.46E+0 - 4.62E+0 6.78E+3 4.90E+4 6.15E-1 Zn-65 3.24E+4 1.03E+5 - 6.90E+4 8.64E+5 5.34E+4 4.66E+4 Zn-69 3.38E-2 6.51E-2 - 4.22E-2 9.20E+2 1.63E+1 4.52E-3 Br-83 - - - - - 1.04E+4 1.35E+5 Br-84 - - - - - 1.64E-3 3.13E+2 Br-85 - - - - - 1.28E+1 Rb-88 - 3.87E+2 - - 3.34E-9 1.93E+2 Sr-90 9.92E+7 - -	Co-57	_	6.92E+2	-	-	3.70E+5	3.14E+4	6.71E+2
Co-60 - 1.15E+4 - - 5.97E+6 2.85E+5 1.48E+4 Ni-63 4.32E+5 3.14E+4 - - 1.78E+5 1.34E+4 1.45E+4 Ni-65 1.54E+0 2.10E-1 - - 5.60E+3 1.23E+4 9.12E-2 Cu-64 - 1.46E+0 - 4.62E+0 6.78E+3 4.90E+4 6.15E-1 Zn-65 3.24E+4 1.03E+5 - 6.90E+4 8.64E+5 5.34E+4 4.66E+4 Zn-69 3.38E-2 6.51E-2 - 4.22E-2 9.20E+2 1.63E+1 4.52E-3 Br-83 - - - - - 1.04E+4 1.35E+5 Br-84 - - - - 1.64E-3 3.13E+2 Br-85 - - - - 1.66E+4 5.90E+4 Rb-88 - 3.87E+2 - - 1.40E+6 3.50E+5 8.72E+3 Sr-90 9.92E+7 - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
Ni-63 4.32E+5 3.14E+4 - - 1.78E+5 1.34E+4 1.45E+4 Ni-65 1.54E+0 2.10E-1 - - 5.60E+3 1.23E+4 9.12E-2 Cu-64 - 1.46E+0 - 4.62E+0 6.78E+3 4.90E+4 6.15E-1 Zn-65 3.24E+4 1.03E+5 - 6.90E+4 8.64E+5 5.34E+4 4.66E+4 Zn-69 3.38E-2 6.51E-2 - 4.22E-2 9.20E+2 1.63E+1 4.52E-3 Br-82 - - - - 1.04E+4 1.35E+4 Br-83 - - - - 2.32E+2 2.41E+2 Br-85 - - - - 1.64E-3 3.13E+2 Br-88 - 3.87E+2 - - 1.66E+4 5.90E+4 Rb-88 - 3.87E+2 - - 1.40E+6 3.50E+5 8.72E+3 Sr-90 9.92E+7 - - - 9.60		-		-	-			
Ni-65 Cu-64 1.54E+0 - 2.10E-1 1.46E+0 - - 5.60E+3 6.78E+3 1.23E+4 4.90E+4 9.12E-2 6.15E-1 Zn-65 Zn-65 3.24E+4 3.38E-2 1.03E+5 6.51E-2 - 6.90E+4 4.22E-2 9.20E+2 9.20E+2 1.63E+1 1.63E+1 4.52E-3 4.66E+4 4.52E-3 Br-82 Br-83 Br-84 - - - - 1.04E+4 1.35E+4 Br-84 1.35E+4 1.64E-3 3.13E+2 Br-85 Br-86 - - - - - 1.28E+1 1.66E+4 5.90E+4 5.90E+4 Rb-88 - 1.28E+1 1.66E+4 5.90E+4 Rb-89 - 1.66E+4 2.90E+4 Rb-89 - 1.66E+2 2.56E+2 - - 1.70E+2 3.34E-9 1.93E+2 1.93E+2 Rb-89 - 1.70E+2 3.34E-9 1.93E+2 1.93E+2 Rb-89 - 1.66E+4 3.50E+5 8.72E+3 - - 1.70E+2 3.34E-9 1.93E+2 1.07E+3 4.93E+3 - - 1.70E+2 5.60E+5 8.72E+3 8.72E+3 Sr-90 9.92E+7 9.02E+7 - - - 9.60E+6 7.22E+5 8.72E+3 6.10E+6 5.61E+1 9.91E+1 9.92E+3 1.02E+2 9.12E+1 9.12E+3 6.10E+6 1.02E+3 1.03E+1 9.02E+3 1.03E+1 9.02E+3 1.03E+1 9.02E+3 1.03E+1 9.02E+3 1.03E+1 9.02E+3 1.03E+1 9.02E+3 1.03E+1 9.02E+3 1.03E+1 9.02E+3 1.03E+3 1.03E+3 1.03E+		-		-	-			
Cu-64 - 1.46E+0 - 4.62E+0 6.78E+3 4.90E+4 6.15E-1 Zn-65 3.24E+4 1.03E+5 - 6.90E+4 8.64E+5 5.34E+4 4.66E+4 Zn-69 3.38E-2 6.51E-2 - 4.22E-2 9.20E+2 1.63E+1 4.52E-3 Br-82 - - - - 1.04E+4 1.35E+4 Br-83 - - - - 2.32E+2 2.41E+2 Br-84 - - - - 2.32E+2 2.41E+2 Br-85 - - - - 1.64E-3 3.13E+2 Br-86 - 1.35E+5 - - - 1.66E+4 5.90E+4 Rb-88 - 3.87E+2 - - - 1.70E+2 Sr-89 3.04E+5 - - - 1.70E+2 Sr-89 3.04E+5 - - - 1.70E+6 3.50E+5 8.72E+3 Sr-90 9.92E+7 - <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td></td>				-	-			
Zn-65 3.24E+4 1.03E+5 - 6.90E+4 8.64E+5 5.34E+4 4.66E+2 Zn-69 3.38E-2 6.51E-2 - 4.22E-2 9.20E+2 1.63E+1 4.52E-3 Br-82 - - - - 1.04E+4 1.35E+4 Br-83 - - - - 2.32E+2 2.41E+2 Br-84 - - - - 2.32E+2 2.41E+2 Br-85 - - - - - 1.64E-3 3.13E+2 Br-86 - 1.35E+5 - - - 1.66E+4 5.90E+4 Rb-88 - 3.87E+2 - - - 1.70E+2 Sr-89 3.04E+5 - - - 1.40E+6 3.50E+5 8.72E+3 Sr-90 9.92E+7 - - - 9.60E+6 7.22E+5 6.10E+6 Sr-91 6.19E+1 - - - 9.60E+6 7.22E+5				-	-			
Zn-69 3.38E-2 6.51E-2 - 4.22E-2 9.20E+2 1.63E+1 4.52E-3 Br-82 - - - - 1.04E+4 1.35E+4 Br-83 - - - - 2.32E+2 2.41E+2 Br-84 - - - - - 2.32E+2 2.41E+2 Br-85 - - - - - 1.64E-3 3.13E+2 Br-86 - 1.35E+5 - - - 1.66E+4 5.90E+4 Rb-88 - 3.87E+2 - - - 1.70E+2 Sr-89 3.04E+5 - - - 1.70E+2 Sr-99 3.04E+5 - - - 1.40E+6 3.50E+5 8.72E+3 Sr-90 9.92E+7 - - - 9.60E+6 7.22E+5 6.10E+6 Sr-91 6.19E+1 - - - 1.65E+4 4.30E+4 2.91E-1 Y-90 2.09E+3 - - - 1.70E+5 5.06E+5 5.61E+1	Cu-64	-	1.46E+0	-	4.62E+0	6.78E+3	4.90E+4	6.15E-1
Br-82 - - - - 1.04E+4 1.35E+4 Br-83 - - - - 2.32E+2 2.41E+2 Br-84 - - - - - 2.32E+2 2.41E+2 Br-85 - - - - - 1.64E-3 3.13E+2 Br-86 - 1.35E+5 - - - 1.66E+4 5.90E+4 Rb-88 - 3.87E+2 - - - 3.34E-9 1.93E+2 Rb-89 - 2.56E+2 - - - 1.70E+2 Sr-89 3.04E+5 - - - 1.40E+6 3.50E+5 8.72E+3 Sr-90 9.92E+7 - - - 9.60E+6 7.22E+5 6.10E+6 Sr-91 6.19E+1 - - - 3.65E+4 1.91E+5 2.50E+0 Sr-92 6.74E+0 - - - 1.65E+4 4.30E+4 2.91E-1	Zn-65	3.24E+4	1.03E+5	-	6.90E+4	8.64E+5	5.34E+4	4.66E+4
Br-83 - - - - - 2.32E+2 2.41E+2 Br-84 - - - - - 1.64E-3 3.13E+2 Br-85 - - - - - 1.28E+1 Rb-86 - 1.35E+5 - - - 1.66E+4 5.90E+4 Rb-88 - 3.87E+2 - - - 3.34E-9 1.93E+2 Rb-89 - 2.56E+2 - - - 1.70E+2 Sr-89 3.04E+5 - - - 1.40E+6 3.50E+5 8.72E+3 Sr-90 9.92E+7 - - - 9.60E+6 7.22E+5 6.10E+6 Sr-91 6.19E+1 - - - 3.65E+4 1.91E+5 2.50E+0 Sr-92 6.74E+0 - - - 1.65E+4 4.30E+4 2.91E-1 Y-91 2.61E-1 - - - 1.70E+5 5.06E+5<	Zn-69	3.38E-2	6.51E-2	-	4.22E-2	9.20E+2	1.63E+1	4.52E-3
Br-85 - - - - - 1.64E-3 3.13E+2 Br-85 - - - - 1.28E+1 Rb-86 - 1.35E+5 - - - 1.66E+4 5.90E+4 Rb-88 - 3.87E+2 - - - 3.34E-9 1.93E+2 Rb-89 - 2.56E+2 - - - 1.70E+2 Sr-89 3.04E+5 - - - 1.40E+6 3.50E+5 8.72E+3 Sr-90 9.92E+7 - - - 9.60E+6 7.22E+5 6.10E+6 Sr-91 6.19E+1 - - - 3.65E+4 1.91E+5 2.50E+0 Sr-92 6.74E+0 - - - 1.65E+4 4.30E+4 2.91E-1 Y-90 2.09E+3 - - - 1.70E+5 5.06E+5 5.61E+1 Y-91m 2.61E-1 - - - 1.70E+6 3.85E+5	Br-82	-	-	-	-	-	1.04E+4	1.35E+4
Br-85 - - - - - 1.28E+1 Rb-86 - 1.35E+5 - - 1.66E+4 5.90E+4 Rb-88 - 3.87E+2 - - - 3.34E-9 1.93E+2 Rb-89 - 2.56E+2 - - - 1.70E+2 Sr-89 3.04E+5 - - - 1.40E+6 3.50E+5 8.72E+3 Sr-90 9.92E+7 - - - 9.60E+6 7.22E+5 6.10E+6 Sr-91 6.19E+1 - - - 3.65E+4 1.91E+5 2.50E+0 Sr-92 6.74E+0 - - - 1.65E+4 4.30E+4 2.91E-1 Y-90 2.09E+3 - - 1.70E+5 5.06E+5 5.61E+1 Y-91m 2.61E-1 - - 1.70E+6 3.85E+5 1.24E+4 Y-92 1.03E+1 - - 1.57E+4 7.35E+4 3.02E-1	Br-83	-	-	-	-	-	2.32E+2	2.41E+2
Rb-86 - 1.35E+5 - - 1.66E+4 5.90E+4 Rb-88 - 3.87E+2 - - - 3.34E-9 1.93E+2 Rb-89 - 2.56E+2 - - - - 1.70E+2 Sr-89 3.04E+5 - - - - 1.40E+6 3.50E+5 8.72E+3 Sr-90 9.92E+7 - - - 9.60E+6 7.22E+5 6.10E+6 Sr-91 6.19E+1 - - - 3.65E+4 1.91E+5 2.50E+0 Sr-92 6.74E+0 - - - 1.65E+4 4.30E+4 2.91E-1 Y-90 2.09E+3 - - - 1.70E+5 5.06E+5 5.61E+1 Y-91m 2.61E-1 - - - 1.70E+6 3.85E+5 1.24E+4 Y-92 1.03E+1 - - - 1.57E+4 7.35E+4 3.02E-1 Y-93 9.44E+1 - - - 1.57E+4 7.35E+4 3.02E-1 Y-95 1.07E+5 </td <td>Br-84</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>1.64E-3</td> <td>3.13E+2</td>	Br-84	-	-	-	-	-	1.64E-3	3.13E+2
Rb-88 - 3.87E+2 - - - 3.34E-9 1.93E+2 Rb-89 - 2.56E+2 - - - 1.70E+2 Sr-89 3.04E+5 - - - 1.40E+6 3.50E+5 8.72E+3 Sr-90 9.92E+7 - - - 9.60E+6 7.22E+5 6.10E+6 Sr-91 6.19E+1 - - - 3.65E+4 1.91E+5 2.50E+0 Sr-92 6.74E+0 - - - 1.65E+4 4.30E+4 2.91E-1 Y-90 2.09E+3 - - - 1.70E+5 5.06E+5 5.61E+1 Y-91m 2.61E-1 - - - 1.70E+5 5.06E+5 5.61E+1 Y-92 1.03E+1 - - - 1.57E+4 7.35E+4 3.02E-1 Y-93 9.44E+1 - - - 4.85E+4 4.22E+5 2.61E+0 Zr-95 1.07E+5 3.44E+4 - 5.42E+4 1.77E+6 1.50E+5 2.33E+4 Zr-97 9.68E+1	Br-85	-	-	-	-	-	-	1.28E+1
Rb-89 - 2.56E+2 - - - 1.70E+2 Sr-89 3.04E+5 - - - 1.40E+6 3.50E+5 8.72E+3 Sr-90 9.92E+7 - - - 9.60E+6 7.22E+5 6.10E+6 Sr-91 6.19E+1 - - - 3.65E+4 1.91E+5 2.50E+0 Sr-92 6.74E+0 - - - 1.65E+4 4.30E+4 2.91E-1 Y-90 2.09E+3 - - - 1.70E+5 5.06E+5 5.61E+1 Y-91m 2.61E-1 - - - 1.92E+3 1.33E+0 1.02E-2 Y-91m 4.62E+6 - - - 1.70E+6 3.85E+5 1.24E+4 Y-92 1.03E+1 - - 1.57E+4 7.35E+4 3.02E-1 Y-93 9.44E+1 - - - 4.85E+4 4.22E+5 2.61E+0 Zr-95 1.07E+5 3.44E+4 -	Rb-86	-	1.35E+5	-	-	-	1.66E+4	5.90E+4
Sr-89 3.04E+5 - - - 1.40E+6 3.50E+5 8.72E+3 Sr-90 9.92E+7 - - - 9.60E+6 7.22E+5 6.10E+6 Sr-91 6.19E+1 - - - 3.65E+4 1.91E+5 2.50E+0 Sr-92 6.74E+0 - - - 1.65E+4 4.30E+4 2.91E-1 Y-90 2.09E+3 - - - 1.70E+5 5.06E+5 5.61E+1 Y-91m 2.61E-1 - - - 1.92E+3 1.33E+0 1.02E-2 Y-91 4.62E+6 - - - 1.57E+4 7.35E+4 3.02E-1 Y-92 1.03E+1 - - - 1.57E+4 7.35E+4 3.02E-1 Y-93 9.44E+1 - - - 4.85E+4 4.22E+5 2.61E+0 Zr-95 1.07E+5 3.44E+4 - 5.42E+4 1.77E+6 1.50E+5 2.33E+4 Zr-97 9.68E+1 1.96E+1 - 2.97E+1 7.87E+4 5.23E+5 9.04E+0	Rb-88	-	3.87E + 2	-	-	-	3.34E-9	1.93E+2
Sr-90 9.92E+7 - - 9.60E+6 7.22E+5 6.10E+6 Sr-91 6.19E+1 - - - 3.65E+4 1.91E+5 2.50E+0 Sr-92 6.74E+0 - - - 1.65E+4 4.30E+4 2.91E-1 Y-90 2.09E+3 - - - 1.70E+5 5.06E+5 5.61E+1 Y-91m 2.61E-1 - - - 1.70E+5 5.06E+5 5.61E+1 Y-91m 2.61E-1 - - - 1.70E+6 3.85E+5 1.24E+4 Y-91m 2.61E-1 - - - 1.70E+6 3.85E+5 1.24E+4 Y-91m 2.61E-1 - - - 1.70E+6 3.85E+5 1.24E+4 Y-92m 1.03E+1 - - - 1.57E+4 7.35E+4 3.02E-1 Y-93 9.44E+1 - - - 4.85E+4 4.22E+5 2.61E+0 Zr-95 1.07E+5 3.44E+4 - 5.42E+4 1.77E+6 1.50E+5 2.33E+5 9.04E+0 <	Rb-89	-	2.56E+2	-	-	-	-	1.70E+2
Sr-91 6.19E+1 - - 3.65E+4 1.91E+5 2.50E+0 Sr-92 6.74E+0 - - - 1.65E+4 4.30E+4 2.91E-1 Y-90 2.09E+3 - - - 1.70E+5 5.06E+5 5.61E+1 Y-91m 2.61E-1 - - - 1.92E+3 1.33E+0 1.02E-2 Y-91 4.62E+6 - - - 1.70E+6 3.85E+5 1.24E+4 Y-92 1.03E+1 - - - 1.57E+4 7.35E+4 3.02E-1 Y-93 9.44E+1 - - - 4.85E+4 4.22E+5 2.61E+0 Zr-95 1.07E+5 3.44E+4 - 5.42E+4 1.77E+6 1.50E+5 2.33E+4 Zr-97 9.68E+1 1.96E+1 - 2.97E+1 7.87E+4 5.23E+5 9.04E+0 Nb-95 1.41E+4 7.82E+3 - 7.74E+3 5.05E+5 1.04E+5 4.21E+3 Nb-97 2.22E-1 5.62E-2 - 6.54E-2 2.40E+3 2.42E+2 2.05E-2	Sr-89	3.04E+5	-	-	-	1.40E+6	3.50E+5	8.72E+3
Sr-91 6.19E+1 - - - 3.65E+4 1.91E+5 2.50E+0 Sr-92 6.74E+0 - - - 1.65E+4 4.30E+4 2.91E-1 Y-90 2.09E+3 - - - 1.70E+5 5.06E+5 5.61E+1 Y-91m 2.61E-1 - - - 1.92E+3 1.33E+0 1.02E-2 Y-91 4.62E+6 - - - 1.70E+6 3.85E+5 1.24E+4 Y-92 1.03E+1 - - - 1.57E+4 7.35E+4 3.02E-1 Y-93 9.44E+1 - - - 4.85E+4 4.22E+5 2.61E+0 Zr-95 1.07E+5 3.44E+4 - 5.42E+4 1.77E+6 1.50E+5 2.33E+4 Zr-97 9.68E+1 1.96E+1 - 2.97E+1 7.87E+4 5.23E+5 9.04E+0 Nb-95 1.41E+4 7.82E+3 - 7.74E+3 5.05E+5 1.04E+5 4.21E+3 Nb-97 2.22E-1 5.62E-2 - 6.54E-2 2.40E+3 2.42E+2	Sr-90	9.92E+7	_	_	_	9.60E+6	7.22E+5	6.10E+6
Sr-92 6.74E+0 - - - 1.65E+4 4.30E+4 2.91E-1 Y-90 2.09E+3 - - - 1.70E+5 5.06E+5 5.61E+1 Y-91m 2.61E-1 - - - 1.92E+3 1.33E+0 1.02E-2 Y-91 4.62E+6 - - - 1.70E+6 3.85E+5 1.24E+4 Y-92 1.03E+1 - - - 1.57E+4 7.35E+4 3.02E-1 Y-93 9.44E+1 - - - 4.85E+4 4.22E+5 2.61E+0 Zr-95 1.07E+5 3.44E+4 - 5.42E+4 1.77E+6 1.50E+5 2.33E+4 Zr-97 9.68E+1 1.96E+1 - 2.97E+1 7.87E+4 5.23E+5 9.04E+0 Nb-95 1.41E+4 7.82E+3 - 7.74E+3 5.05E+5 1.04E+5 4.21E+3 Nb-97 2.22E-1 5.62E-2 - 6.54E-2 2.40E+3 2.42E+2 2.05E-2 Mo-99 - 1.21E+2 - 2.91E+2 9.12E+4 2.48E+5			_	_	_		1.91E+5	
Y-90 2.09E+3 - - - 1.70E+5 5.06E+5 5.61E+1 Y-91m 2.61E-1 - - - 1.92E+3 1.33E+0 1.02E-2 Y-91 4.62E+6 - - - 1.70E+6 3.85E+5 1.24E+4 Y-92 1.03E+1 - - - 1.57E+4 7.35E+4 3.02E-1 Y-93 9.44E+1 - - - 4.85E+4 4.22E+5 2.61E+0 Zr-95 1.07E+5 3.44E+4 - 5.42E+4 1.77E+6 1.50E+5 2.33E+4 Zr-97 9.68E+1 1.96E+1 - 2.97E+1 7.87E+4 5.23E+5 9.04E+0 Nb-95 1.41E+4 7.82E+3 - 7.74E+3 5.05E+5 1.04E+5 4.21E+3 Nb-97 2.22E-1 5.62E-2 - 6.54E-2 2.40E+3 2.42E+2 2.05E-2 Mo-99 - 1.21E+2 - 2.91E+2 9.12E+4 2.48E+5 2.30E+1 Tc-99m 1.03E-3 2.91E-3 - 4.42E-2 7.64E+2 4.16			_	_	_			
Y-91m 2.61E-1 - - - 1.92E+3 1.33E+0 1.02E-2 Y-91 4.62E+6 - - - 1.70E+6 3.85E+5 1.24E+4 Y-92 1.03E+1 - - - 1.57E+4 7.35E+4 3.02E-1 Y-93 9.44E+1 - - - 4.85E+4 4.22E+5 2.61E+0 Zr-95 1.07E+5 3.44E+4 - 5.42E+4 1.77E+6 1.50E+5 2.33E+4 Zr-97 9.68E+1 1.96E+1 - 2.97E+1 7.87E+4 5.23E+5 9.04E+0 Nb-95 1.41E+4 7.82E+3 - 7.74E+3 5.05E+5 1.04E+5 4.21E+3 Nb-97 2.22E-1 5.62E-2 - 6.54E-2 2.40E+3 2.42E+2 2.05E-2 Mo-99 - 1.21E+2 - 2.91E+2 9.12E+4 2.48E+5 2.30E+1 Tc-99m 1.03E-3 2.91E-3 - 4.42E-2 7.64E+2 4.16E+3 3.70E-2	Y-90	2.09E+3	_	_	_	1.70E+5	5.06E+5	5.61E+1
Y-92 1.03E+1 - - - 1.57E+4 7.35E+4 3.02E-1 Y-93 9.44E+1 - - - 4.85E+4 4.22E+5 2.61E+0 Zr-95 1.07E+5 3.44E+4 - 5.42E+4 1.77E+6 1.50E+5 2.33E+4 Zr-97 9.68E+1 1.96E+1 - 2.97E+1 7.87E+4 5.23E+5 9.04E+0 Nb-95 1.41E+4 7.82E+3 - 7.74E+3 5.05E+5 1.04E+5 4.21E+3 Nb-97 2.22E-1 5.62E-2 - 6.54E-2 2.40E+3 2.42E+2 2.05E-2 Mo-99 - 1.21E+2 - 2.91E+2 9.12E+4 2.48E+5 2.30E+1 Tc-99m 1.03E-3 2.91E-3 - 4.42E-2 7.64E+2 4.16E+3 3.70E-2	Y-91m	2.61E-1	-	-	-	1.92E+3	1.33E+0	1.02E-2
Y-92 1.03E+1 - - - 1.57E+4 7.35E+4 3.02E-1 Y-93 9.44E+1 - - - 4.85E+4 4.22E+5 2.61E+0 Zr-95 1.07E+5 3.44E+4 - 5.42E+4 1.77E+6 1.50E+5 2.33E+4 Zr-97 9.68E+1 1.96E+1 - 2.97E+1 7.87E+4 5.23E+5 9.04E+0 Nb-95 1.41E+4 7.82E+3 - 7.74E+3 5.05E+5 1.04E+5 4.21E+3 Nb-97 2.22E-1 5.62E-2 - 6.54E-2 2.40E+3 2.42E+2 2.05E-2 Mo-99 - 1.21E+2 - 2.91E+2 9.12E+4 2.48E+5 2.30E+1 Tc-99m 1.03E-3 2.91E-3 - 4.42E-2 7.64E+2 4.16E+3 3.70E-2	Y-91	4.62E+6	_	_	_	1.70E+6	3.85E+5	1.24E+4
Y-93 9.44E+1 - - - 4.85E+4 4.22E+5 2.61E+0 Zr-95 1.07E+5 3.44E+4 - 5.42E+4 1.77E+6 1.50E+5 2.33E+4 Zr-97 9.68E+1 1.96E+1 - 2.97E+1 7.87E+4 5.23E+5 9.04E+0 Nb-95 1.41E+4 7.82E+3 - 7.74E+3 5.05E+5 1.04E+5 4.21E+3 Nb-97 2.22E-1 5.62E-2 - 6.54E-2 2.40E+3 2.42E+2 2.05E-2 Mo-99 - 1.21E+2 - 2.91E+2 9.12E+4 2.48E+5 2.30E+1 Tc-99m 1.03E-3 2.91E-3 - 4.42E-2 7.64E+2 4.16E+3 3.70E-2			_	_	_			
Zr-95 1.07E+5 3.44E+4 - 5.42E+4 1.77E+6 1.50E+5 2.33E+4 Zr-97 9.68E+1 1.96E+1 - 2.97E+1 7.87E+4 5.23E+5 9.04E+0 Nb-95 1.41E+4 7.82E+3 - 7.74E+3 5.05E+5 1.04E+5 4.21E+3 Nb-97 2.22E-1 5.62E-2 - 6.54E-2 2.40E+3 2.42E+2 2.05E-2 Mo-99 - 1.21E+2 - 2.91E+2 9.12E+4 2.48E+5 2.30E+1 Tc-99m 1.03E-3 2.91E-3 - 4.42E-2 7.64E+2 4.16E+3 3.70E-2			_	_	_			
Zr-97 9.68E+1 1.96E+1 - 2.97E+1 7.87E+4 5.23E+5 9.04E+0 Nb-95 1.41E+4 7.82E+3 - 7.74E+3 5.05E+5 1.04E+5 4.21E+3 Nb-97 2.22E-1 5.62E-2 - 6.54E-2 2.40E+3 2.42E+2 2.05E-2 Mo-99 - 1.21E+2 - 2.91E+2 9.12E+4 2.48E+5 2.30E+1 Tc-99m 1.03E-3 2.91E-3 - 4.42E-2 7.64E+2 4.16E+3 3.70E-2			3.44E+4	_	5.42E+4			
Nb-97 2.22E-1 5.62E-2 - 6.54E-2 2.40E+3 2.42E+2 2.05E-2 Mo-99 - 1.21E+2 - 2.91E+2 9.12E+4 2.48E+5 2.30E+1 Tc-99m 1.03E-3 2.91E-3 - 4.42E-2 7.64E+2 4.16E+3 3.70E-2				-				
Nb-97 2.22E-1 5.62E-2 - 6.54E-2 2.40E+3 2.42E+2 2.05E-2 Mo-99 - 1.21E+2 - 2.91E+2 9.12E+4 2.48E+5 2.30E+1 Tc-99m 1.03E-3 2.91E-3 - 4.42E-2 7.64E+2 4.16E+3 3.70E-2	Nb-95	1.41E+4	7.82E+3	_	7.74E+3	5.05E+5	1.04E+5	4.21E+3
Mo-99 - 1.21E+2 - 2.91E+2 9.12E+4 2.48E+5 2.30E+1 Tc-99m 1.03E-3 2.91E-3 - 4.42E-2 7.64E+2 4.16E+3 3.70E-2				_				
Tc-99m 1.03E-3 2.91E-3 - 4.42E-2 7.64E+2 4.16E+3 3.70E-2		-		_				
		1.03E-3		_				
				_			-	

 $\frac{\text{R}_{\text{io}}, \text{INHALATION PATHWAY DOSE FACTORS}}{\text{ADULT (mrem/yr per } \mu \text{Ci/m}^3)}$

Nuclide	Bone	Liver	Thyroid	<u>Kidney</u>	Lung	<u>GI-LLI</u>	T.Body
Ru-103	1.53E+3	_	_	5.83E+3	5.05E+5	1.10E+5	6.58E+2
Ru-105	7.90E-1	_	_	1.02E+0	1.10E+4	4.82E+4	3.11E-1
Ru-106	6.91E+4	_	_	1.34E+5	9.36E+6	9.12E+5	8.72E+3
Rh-103m	-	_	_	_	-	_	-
Rh-106	-	-	-	-	-	-	-
Ag-110m	1.08E+4	1.00E+4	-	1.97E+4	4.63E+6	3.02E+5	5.94E+3
Sb-124	3.12E+4	5.89E+2	7.55E+1	-	2.48E+6	4.06E+5	1.24E+4
Sb-125	5.34E+4	5.95E+2	5.40E+1	-	1.74E+6	1.01E+5	1.26E+4
Te-125m	3.42E+3	1.58E+3	1.05E+3	1.24E+4	3.14E+5	7.06E+4	4.67E+2
Te-127m	1.26E+4	5.77E+3	3.29E+3	4.58E+4	9.60E+5	1.50E+5	1.57E+3
Te-127	1.40E+0	6.42E-1	1.06E+0	5.10E+0	6.51E+3	5.74E+4	3.10E-1
Te-129m	9.76E + 3	4.67E + 3	3.44E+3	3.66E+4	1.16E+6	3.83E + 5	1.58E+3
Te-129	4.98E-2	2.39E-2	3.90E-2	1.87E-1	1.94E+3	1.57E+2	1.24E-2
Te-131m	6.99E+1	4.36E+1	5.50E+1	3.09E+2	1.46E+5	5.56E+5	2.90E+1
Te-131	1.11E-2	5.95E-3	9.36E-3	4.37E-2	1.39E+3	1.84E+1	3.59E-3
Te-132	2.60E+2	2.15E+2	1.90E+2	1.46E+3	2.88E+5	5.10E+5	1.62E+2
I-130	4.58E+3	1.34E+4	1.14E+6	2.09E+4	_	7.69E+3	5.28E+3
I-131	2.52E+4	3.58E+4	1.19E+7	6.13E+4	-	6.28E + 3	2.05E+4
I-132	1.16E+3	3.26E + 3	1.14E+5	5.18E+3	-	4.06E+2	1.16E+3
I-133	8.64E+3	1.48E+4	2.15E+6	2.58E+4	-	8.88E+3	4.52E+3
I-134	6.44E+2	1.73E+3	2.98E+4	2.75E+3	-	1.01E+0	6.15E+2
I-135	2.68E+3	6.98E+3	4.48E+5	1.11E+4	-	5.25E+3	2.57E+3
Cs-134	3.73E+5	8.48E+5	-	2.87E + 5	9.76E+4	1.04E+4	7.28E+5
Cs-136	3.90E+4	1.46E+5	-	8.56E+4	1.20E+4	1.17E+4	1.10E+5
Cs-137	4.78E+5	6.21E+5	-	2.22E+5	7.52E+4	8.40E+3	4.28E+5
Cs-138	3.31E+2	6.21E+2	-	4.80E+2	4.86E+1	1.86E-3	3.24E+2
Ba-139	9.36E-1	6.66E-4	-	6.22E-4	3.76E+3	8.96E+2	2.74E-2
Ba-140	3.90E+4	4.90E+1	-	1.67E+1	1.27E+6	2.18E + 5	2.57E+3
Ba-141	1.00E-1	7.53E-5	-	7.00E-5	1.94E+3	1.16E-7	3.36E-3
Ba-142	2.63E-2	2.70E-5	-	2.29E-5	1.19E+3	-	1.66E-3
La-140	3.44E+2	1.74E+2	-	-	1.36E+5	4.58E+5	4.58E+1
La-142	6.83E-1	3.10E-1	-	-	6.33E+3	2.11E+3	7.72E-2
Ce-141	1.99E+4	1.35E+4	-	6.26E + 3	3.62E + 5	1.20E+5	1.53E+3
Ce-143	1.86E+2	1.38E+2	-	6.08E+1	7.98E+4	2.26E + 5	1.53E+1
Ce-144	3.43E+6	1.43E+6	-	8.48E+5	7.78E+6	8.16E+5	1.84E+5
Pr-143	9.36E+3	3.75E+3	-	2.16E+3	2.81E+5	2.00E+5	4.64E+2
Pr-144	3.01E-2	1.25E-2	-	7.05E-3	1.02E+3	2.15E-8	1.53E-3
Nd-147	5.27E+3	6.10E+3	-	3.56E+3	2.21E+5	1.73E+5	3.65E+2
W-187	8.48E+0	7.08E+0	-	-	2.90E+4	1.55E+5	2.48E+0
Np-239	2.30E+2	2.26E+1	-	7.00E+1	3.76E+4	1.19E+5	1.24E+1

 $\frac{\text{R}_{\text{io}}, \text{INHALATION PATHWAY DOSE FACTORS}}{\text{TEENAGER (mrem/yr per } \mu\text{Ci/m}^3)}$

H-3	Nuclide	Bone	Liver	Thyroid	<u>Kidney</u>	Lung	<u>GI-LLI</u>	T.Body
C-14 2.60E+4 4.87E+3 4.28E+4 1.38E+4 1.38E+4 1.38E+4 1.38E+4 1.38E+4 1.35E+6 6.66E±4 8.40E±3 1.55E±4 2.52E-1 1.52E±4 2.74E±4 2.52E-1 1.52E±4 2.52E-1 2.52E-1 2.52E+3 2.52E+1 2.52E+4 2.52E+1 2	H-3	_	1.27E+3	1.27E+3	1.27E+3	1.27E+3	1.27E+3	1.27E+3
Na-24		2.60E±4						
P-32								
Cr-51 - - 7.50E+1 3.07E+1 2.10E+4 3.00E+3 1.35E+2 Mn-54 - 5.11E+4 - 1.27E+4 1.98E+6 6.68E+4 8.40E+3 Mn-56 - 1.70E+0 - 1.79E+0 1.52E+4 5.74E+4 2.52E-1 Fe-59 1.59E+4 2.70E+3 - - 1.53E+6 1.78E+5 1.43E+4 Co-57 - 6.92E+2 - - 5.86E+5 3.14E+4 9.20E+2 Co-58 - 2.07E+3 - - 1.34E+6 9.52E+4 2.78E+3 Co-60 - 1.51E+4 - - 8.72E+6 2.59E+5 1.98E+4 Ni-63 5.80E+5 4.34E+4 - - 9.36E+3 3.67E+4 1.27E-1 Cu-64 - 2.03E+0 - 6.41E+0 1.11E+4 6.14E+4 8.48E-1 Zn-65 3.86E+4 1.34E+5 - 8.64E+4 1.24E+6 4.66E+4 6.24E+4 <t< td=""><td></td><td></td><td></td><td>-</td><td>-</td><td>-</td><td></td><td></td></t<>				-	-	-		
Mn-54		-	-	7.50E±1	3.07E+1	2.10E+4		
Mn-56 - 1.70E+0 - 1.79E+0 1.52E+4 5.74E+4 2.52E-1 Fe-55 3.34E+4 2.38E+4 - - 1.24E+5 6.39E+3 5.54E+3 Fe-59 1.59E+4 3.70E+4 - - 1.53E+6 1.78E+5 1.43E+4 Co-57 - 6.92E+2 - - 5.86E+5 3.14E+4 9.20E+2 Co-58 - 2.07E+3 - 1.34E+6 9.52E+4 2.78E+3 Co-60 - 1.51E+4 - - 8.72E+6 2.59E+5 1.98E+4 Ni-63 5.80E+5 4.34E+4 - - 3.07E+5 1.42EH4 1.98E+4 Ni-63 2.81E+0 2.93E-1 - - 9.36E+3 3.67E+4 1.27E-1 Cu-64 - 2.93E-1 - - 9.36E+3 3.67E+4 1.27E-1 Zn-69 4.83E-2 9.20E-2 - 6.64E+4 1.24E+6 4.66E+4 4.24E+4 Zn-69	01 01			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.0,2	2 .102 .	0.002 0	1.002 2
Fe-55 3.34E+4 2.38E+4 - - 1.24E+5 6.39E+3 5.54E+3 Fe-59 1.59E+4 3.70E+4 - - 1.53E+6 1.78E+5 1.43E+4 Co-57 - 6.92E+2 - - 5.86E+5 3.14E+4 9.20E+2 Co-58 - 2.07E+3 - - 1.34E+6 9.52E+4 2.78E+3 Ni-63 5.80E+5 4.34E+4 - - 3.07E+5 1.42E+4 1.98E+4 Ni-65 2.18E+0 2.93E-1 - - 9.36E+3 3.67E+4 1.27E-1 Cu-64 - 2.03E+0 - 6.41E+0 1.11E+4 6.14E+4 8.48E-1 Zn-65 3.86E+4 1.34E+5 - 8.64E+4 1.24E+6 4.66E+4 6.24E+4 Zn-69 4.83E-2 9.20E-2 - 6.02E-2 1.58E+3 2.85E+2 6.46E-3 Br-83 - - - - - 1.82E+4 Rb-86	Mn-54	-	5.11E+4	-	1.27E+4	1.98E+6	6.68E+4	8.40E+3
Fe-59 1.59E+4 3.70E+4 - 1.53E+6 1.78E+5 1.43E+4 Co-57 - 6.92E+2 - - 5.86E+5 3.14E+4 9.20E+2 Co-58 - 2.07E+3 - - 1.34E+6 9.52E+4 2.78E+3 Co-60 - 1.51E+4 - - 8.72E+6 2.59E+5 1.98E+4 Ni-63 5.80E+5 4.34E+4 - - 3.07E+5 1.42E+4 1.98E+4 Ni-65 2.18E+0 2.93E-1 - - 9.36E+3 3.67E+4 1.27E-1 Cu-64 - 2.03E+0 - 6.41E+0 1.11E+4 6.14E+4 8.48E-1 Zn-65 3.86E+4 1.34E+5 - 8.64E+4 1.24E+6 4.66E+4 6.24E+4 Zn-69 4.83E-2 9.20E-2 - 6.02E-2 1.58E+3 2.85E+2 6.46E-3 Br-82 - - - - - - - - 3.44E+4 <	Mn-56	-	1.70E+0	-	1.79E+0	1.52E+4	5.74E+4	2.52E-1
Co-57 - 6.92E+2 - 5.86E+5 3.14E+4 9.20E+2 Co-58 - 2.07E+3 - - 1.34E+6 9.52E+4 2.78E+3 Co-60 - 1.51E+4 - - 8.72E+6 2.59E+5 1.98E+4 Ni-63 5.80E+5 4.34E+4 - - 3.07E+5 1.42E+4 1.98E+4 Ni-65 2.18E+0 2.93E-1 - - 9.36E+3 3.67E+4 1.27E-1 Cu-64 - 2.03E+0 - 6.41E+0 1.11E+4 6.14E+4 8.48E-1 Zn-65 3.86E+4 1.34E+5 - 8.64E+4 1.24E+6 4.66E+4 6.24E+4 Zn-65 3.86E+4 1.34E+5 - 8.64E+4 1.24E+6 4.66E+4 6.24E+4 Zn-65 3.86E+4 1.34E+5 - 8.64E+4 1.24E+6 4.66E+4 6.24E+4 Br-80 - - - - - - - 1.82E+4 <	Fe-55	3.34E+4	2.38E+4	-	-	1.24E+5	6.39E+3	5.54E+3
Co-58 - 2.07E+3 - - 1.34E+6 9.52E+4 2.78E+3 Co-60 - 1.51E+4 - - 8.72E+6 2.59E+5 1.98E+4 Ni-63 5.80E+5 4.34E+4 - - 3.07E+5 1.42E+4 1.98E+4 Ni-65 2.18E+0 2.93E-1 - - 9.36E+3 3.67E+4 1.27E-1 Cu-64 - 2.03E+0 - 6.41E+0 1.11E+4 6.14E+4 8.48E-1 Zn-65 3.86E+4 1.34E+5 - 8.64E+4 1.24E+6 4.66E+4 6.24E+4 Zn-69 4.83E-2 9.20E-2 - 6.02E-2 1.58E+3 2.85E+2 6.46E-3 Br-83 - - - - - - 1.82E+4 Br-84 - - - - - 1.77E+4 8.40E+4 Rb-86 - 1.90E+5 - - 1.77E+4 8.40E+4 Rb-88 - 5.46	Fe-59	1.59E+4	3.70E+4	-	-	1.53E+6	1.78E + 5	1.43E+4
Co-60 - 1.51E+4 - - 8.72E+6 2.59E+5 1.98E+4 Ni-63 5.80E+5 4.34E+4 - - 3.07E+5 1.42E+4 1.98E+4 Ni-65 2.18E+0 2.93E-1 - - 9.36E+3 3.67E+4 1.27E-1 Cu-64 - 2.03E+0 - 6.41E+0 1.11E+4 6.14E+4 8.48E-1 Zn-65 3.86E+4 1.34E+5 - 8.64E+4 1.24E+6 4.66E+4 6.46E-3 Br-82 9.20E-2 - 6.02E-2 1.58E+3 2.85E+2 6.46E-3 Br-83 - - - - - 1.82E+4 Br-84 - - - - - 1.82E+4 Br-85 - - - - - 1.83E+1 Rb-86 - 1.90E+5 - - 1.77E+4 8.40E+4 Rb-88 - 5.46E+2 - - 2.92E-5 2.72E+2	Co-57	-	6.92E + 2	-	-	5.86E + 5	3.14E+4	9.20E+2
Co-60 - 1.51E+4 - - 8.72E+6 2.59E+5 1.98E+4 Ni-63 5.80E+5 4.34E+4 - - 3.07E+5 1.42E+4 1.98E+4 Ni-65 2.18E+0 2.93E-1 - - 9.36E+3 3.67E+4 1.27E-1 Cu-64 - 2.03E+0 - 6.41E+0 1.11E+4 6.14E+4 8.48E-1 Zn-65 3.86E+4 1.34E+5 - 8.64E+4 1.24E+6 4.66E+4 6.46E-3 Br-82 9.20E-2 - 6.02E-2 1.58E+3 2.85E+2 6.46E-3 Br-83 - - - - - 1.82E+4 Br-84 - - - - - 1.82E+4 Br-85 - - - - - 1.83E+1 Rb-86 - 1.90E+5 - - 1.77E+4 8.40E+4 Rb-88 - 5.46E+2 - - 2.92E-5 2.72E+2	C- 50		2.07E+2			1.245+6	0.525+4	2.70E+2
Ni-63 5.80E+5 4.34E+4 - - 3.07E+5 1.42E+4 1.98E+4 Ni-65 2.18E+0 2.93E-1 - - 9.36E+3 3.67E+4 1.27E-1 Cu-64 - 2.03E+0 - 6.41E+0 1.11E+4 6.14E+4 8.48E-1 Zn-65 3.86E+4 1.34E+5 - 8.64E+4 1.24E+6 4.66E+4 6.24E+4 Zn-69 4.83E-2 9.20E-2 - 6.02E-2 1.58E+3 2.85E+2 6.66E-3 Br-82 - - - - - - 1.82E+4 Br-83 - - - - - - 3.4E+2 Br-84 - 1.90E+5 - - - 1.77E+4 8.40E+4 Rb-86 - 1.90E+5 - - 1.77E+4 8.40E+4 Rb-89 - 3.52E+2 - - 2.92E-5 2.72E+2 Sr-89 4.34E+5 - - <t< td=""><td></td><td>-</td><td></td><td>-</td><td>-</td><td></td><td></td><td></td></t<>		-		-	-			
Ni-65 Cu-64 2.18E+0 - 2.93E-1 2.03E+0 - - 9.36E+3 6.41E+0 3.67E+4 1.11E+4 1.27E-1 6.14E+4 Zn-65 Sa,86E+4 1.34E+5 1.34E+5 - 8.64E+4 1.24E+6 4.66E+4 4.66E+4 6.24E+4 6.24E+4 8.48E-1 Zn-69 Br-82 Br-83 Br-83 Br-84 - - - - - 1.82E+4 8.2E+4 Br-84 - - - - 1.82E+4 8.2E+4 Br-84 - - - - - 1.82E+4 8.2E+4 Br-83 - - - - - 1.82E+4 8.2E+4 Br-84 - - - - - - - 1.82E+4 8.3E+2 - - - - - - - - 1.82E+4 8.3E+2 - - - - - - - 1.82E+4 8.3E+2 -		- 5 90E+5		-	-			
Cu-64 - 2.03E+0 - 6.41E+0 1.11E+4 6.14E+4 8.48E-1 Zn-65 3.86E+4 1.34E+5 - 8.64E+4 1.24E+6 4.66E+4 6.24E+4 Zn-69 4.83E-2 9.20E-2 - 6.02E-2 1.58E+3 2.85E+2 6.46E-3 Br-82 - - - - - 1.82E+4 Br-83 - - - - - 3.44E+2 Br-84 - - - - - - 3.44E+2 Br-85 - - - - - 1.83E+1 Rb-86 - 1.90E+5 - - 1.77E+4 8.40E+4 Rb-88 - 5.46E+2 - - 2.92E-5 2.72E+2 Rb-89 - 3.52E+2 - - 2.38E-7 2.33E+2 Sr-90 1.08E+8 - - - 1.65E+7 7.65E+5 6.68E+6 Sr-91 <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td>					-			
Zn-65 3.86E+4 1.34E+5 - 8.64E+4 1.24E+6 4.66E+4 6.24E+4 Zn-69 4.83E-2 9.20E-2 - 6.02E-2 1.58E+3 2.85E+2 6.46E-3 Br-82 - - - - - 1.82E+4 Br-83 - - - - - 3.44E+2 Br-84 - - - - - 4.33E+2 Br-85 - - - - - 4.33E+1 Rb-86 - 1.90E+5 - - 1.77E+4 8.40E+4 Rb-88 - 5.46E+2 - - 2.92E-5 2.72E+2 Rb-89 - 3.52E+2 - - 2.42E+6 3.71E+5 1.25E+4 Sr-90 1.08E+8 - - - 1.65E+7 7.65E+5 6.68E+6 Sr-91 8.80E+1 - - - 6.07E+4 2.59E+5 3.51E+0 Sr-92 <td></td> <td></td> <td></td> <td></td> <td>- - (11E+0</td> <td></td> <td></td> <td></td>					- - (11E+0			
Zn-69 4.83E-2 9.20E-2 - 6.02E-2 1.58E+3 2.85E+2 6.46E-3 Br-82 - - - - - 1.82E+4 Br-83 - - - - - 3.44E+2 Br-84 - - - - - - 4.33E+2 Br-85 - - - - - 1.77E+4 8.40E+4 Rb-86 - 1.90E+5 - - - 1.77E+4 8.40E+4 Rb-88 - 5.46E+2 - - - 2.92E-5 2.72E+2 Rb-89 - 3.52E+2 - - - 2.92E-5 2.72E+2 Rb-89 - 3.52E+2 - - - 3.38E-7 2.33E+2 Sr-90 1.08E+8 - - - 1.65E+7 7.65E+5 6.68E+6 Sr-91 8.80E+1 - - - 2.74E+4 1.19E+5 4.06E-1 Y-90 2.98E+3 - - - 2.93E+5 <	Cu-64	-	2.03E+0	-	6.41E±0	1.11E+4	6.14E+4	8.48E-1
Br-82 - - - - - 1.82E+4 Br-83 - - - - - 3.44E+2 Br-84 - - - - - - 3.44E+2 Br-85 - - - - - - 4.33E+1 Rb-86 - 1.90E+5 - - - 1.77E+4 8.40E+4 Rb-88 - 5.46E+2 - - - 2.92E-5 2.72E+2 Rb-89 - 3.52E+2 - - - 2.92E-5 2.72E+2 Rb-89 - 3.52E+2 - - - 3.38E-7 2.33E+2 Sr-89 4.34E+5 - - - 1.65E+7 7.65E+5 6.68E+6 Sr-90 1.08E+8 - - - 1.65E+7 7.65E+5 6.68E+6 Sr-91 8.80E+1 - - - 2.74E+4 1.19E+5 4.06E-1	Zn-65	3.86E+4	1.34E+5	-	8.64E+4	1.24E+6	4.66E+4	6.24E+4
Br-83 - - - - - - 3.44E+2 Br-84 - - - - - - 4.33E+2 Br-85 - - - - - 1.83E+1 Rb-86 - 1.90E+5 - - 1.77E+4 8.40E+4 Rb-88 - 5.46E+2 - - - 2.92E-5 2.72E+2 Rb-89 - 3.52E+2 - - - 3.38E-7 2.33E+2 Sr-89 4.34E+5 - - - 2.42E+6 3.71E+5 1.25E+4 Sr-90 1.08E+8 - - - 1.65E+7 7.65E+5 6.68E+6 Sr-91 8.80E+1 - - - 6.07E+4 2.59E+5 3.51E+0 Sr-92 9.52E+0 - - - 2.74E+4 1.19E+5 4.06E-1 Y-90 2.98E+3 - - - 2.93E+5 5.59E+5	Zn-69	4.83E-2	9.20E-2	-	6.02E-2	1.58E+3	2.85E+2	6.46E-3
Br-85 - - - - - - 4.33E+2 Br-86 - 1.90E+5 - - - 1.77E+4 8.40E+4 Rb-88 - 5.46E+2 - - - 2.92E-5 2.72E+2 Rb-89 - 3.52E+2 - - - 3.38E-7 2.33E+2 Sr-89 4.34E+5 - - - 2.42E+6 3.71E+5 1.25E+4 Sr-90 1.08E+8 - - - 1.65E+7 7.65E+5 6.68E+6 Sr-91 8.80E+1 - - - 6.07E+4 2.59E+5 3.51E+0 Sr-92 9.52E+0 - - - 2.74E+4 1.19E+5 4.06E-1 Y-90 2.98E+3 - - - 2.93E+5 5.59E+5 8.00E+1 Y-91m 3.70E-1 - - - 2.94E+6 4.09E+5 1.77E+4 Y-92 1.47E+1 - - <td>Br-82</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>1.82E+4</td>	Br-82	-	-	-	-	-	-	1.82E+4
Br-85 1.83E+1 Rb-86 - 1.90E+5 1.77E+4 8.40E+4 Rb-88 - 5.46E+2 2.92E-5 2.72E+2 Rb-89 - 3.52E+2 3.38E-7 2.33E+2 Sr-89 4.34E+5 1.65E+7 7.65E+5 6.68E+6 Sr-90 1.08E+8 1.65E+7 7.65E+5 3.51E+0 Sr-92 9.52E+0 6.07E+4 2.59E+5 3.51E+0 Sr-92 9.52E+0 2.74E+4 1.19E+5 4.06E-1 Y-90 2.98E+3 2.93E+5 5.59E+5 8.00E+1 Y-91m 3.70E-1 3.20E+3 3.02E+1 1.42E-2 Y-91 6.61E+5 2.94E+6 4.09E+5 1.77E+4 Y-92 1.47E+1 2.68E+4 1.65E+5 4.29E-1 Y-93 1.35E+2 8.32E+4 5.79E+5 3.72E+0 Zr-95 1.46E+5 4.58E+4 - 6.74E+4 2.69E+6 1.49E+5 3.15E+4 Zr-97 1.38E+2 2.72E+1 - 4.12E+1 1.30E+5 6.30E+5 1.26E+1 Nb-95 1.86E+4 1.03E+4 - 1.00E+4 7.51E+5 9.68E+4 5.66E+3 Nb-97 3.14E-1 7.78E-2 - 9.12E-2 3.93E+3 2.17E+3 2.84E-2 Mo-99 - 1.69E+2 - 4.11E+2 1.54E+5 2.69E+5 3.22E+1 Tc-99m 1.38E-3 3.86E-3 - 5.76E-2 1.15E+3 6.13E+3 4.99E-2	Br-83	-	-	-	-	-	-	3.44E+2
Rb-86 - 1.90E+5 - - 1.77E+4 8.40E+4 Rb-88 - 5.46E+2 - - - 2.92E-5 2.72E+2 Rb-89 - 3.52E+2 - - - 3.38E-7 2.33E+2 Sr-89 4.34E+5 - - - - 2.42E+6 3.71E+5 1.25E+4 Sr-90 1.08E+8 - - - 1.65E+7 7.65E+5 6.68E+6 Sr-91 8.80E+1 - - - 6.07E+4 2.59E+5 3.51E+0 Sr-92 9.52E+0 - - - 2.74E+4 1.19E+5 4.06E-1 Y-90 2.98E+3 - - - 2.93E+5 5.59E+5 8.00E+1 Y-91m 3.70E-1 - - - 2.94E+6 4.09E+5 1.77E+4 Y-92 1.47E+1 - - - 2.68E+4 1.65E+5 4.29E-1 Y-93 1.35E+2 - - - 8.32E+4 5.79E+5 3.72E+0 Zr-95 1.	Br-84	-	-	-	-	-	-	4.33E+2
Rb-86 - 1.90E+5 - - 1.77E+4 8.40E+4 Rb-88 - 5.46E+2 - - - 2.92E-5 2.72E+2 Rb-89 - 3.52E+2 - - - 3.38E-7 2.33E+2 Sr-89 4.34E+5 - - - - 2.42E+6 3.71E+5 1.25E+4 Sr-90 1.08E+8 - - - 1.65E+7 7.65E+5 6.68E+6 Sr-91 8.80E+1 - - - 6.07E+4 2.59E+5 3.51E+0 Sr-92 9.52E+0 - - - 2.74E+4 1.19E+5 4.06E-1 Y-90 2.98E+3 - - - 2.93E+5 5.59E+5 8.00E+1 Y-91m 3.70E-1 - - - 2.94E+6 4.09E+5 1.77E+4 Y-92 1.47E+1 - - - 2.68E+4 1.65E+5 4.29E-1 Y-93 1.35E+2 - - - 8.32E+4 5.79E+5 3.72E+0 Zr-95 1.	D. 05							1.02E+1
Rb-88 - 5.46E+2 - - - 2.92E-5 2.72E+2 Rb-89 - 3.52E+2 - - - 3.38E-7 2.33E+2 Sr-89 4.34E+5 - - - 2.42E+6 3.71E+5 1.25E+4 Sr-90 1.08E+8 - - - 1.65E+7 7.65E+5 6.68E+6 Sr-91 8.80E+1 - - - 6.07E+4 2.59E+5 3.51E+0 Sr-92 9.52E+0 - - - 2.74E+4 1.19E+5 4.06E-1 Y-90 2.98E+3 - - - 2.93E+5 5.59E+5 8.00E+1 Y-91m 3.70E-1 - - - 2.93E+5 5.59E+5 8.00E+1 Y-92 1.47E+1 - - - 2.94E+6 4.09E+5 1.77E+4 Y-93 1.35E+2 - - - 8.32E+4 5.79E+5 3.72E+0 Zr-95 1.46E+5 4.58E+4 - 6.74E+4 2.69E+6 1.49E+5 3.15E+4 Zr-97		-	1 00E+5	-	-	-	- 1.775+4	
Rb-89 - 3.52E+2 - - - 3.38E-7 2.33E+2 Sr-89 4.34E+5 - - - 2.42E+6 3.71E+5 1.25E+4 Sr-90 1.08E+8 - - - 1.65E+7 7.65E+5 6.68E+6 Sr-91 8.80E+1 - - - 6.07E+4 2.59E+5 3.51E+0 Sr-92 9.52E+0 - - - 2.74E+4 1.19E+5 4.06E-1 Y-90 2.98E+3 - - - 2.93E+5 5.59E+5 8.00E+1 Y-91m 3.70E-1 - - - 2.94E+6 4.09E+5 1.77E+4 Y-92m 1.47E+1 - - - 2.68E+4 1.65E+5 4.29E-1 Y-93 1.35E+2 - - - 8.32E+4 5.79E+5 3.72E+0 Zr-95 1.46E+5 4.58E+4 - 6.74E+4 2.69E+6 1.49E+5 3.15E+4 Zr-97 1.38E+2 2.72E+1 - 4.12E+1 1.30E+5 6.30E+5 1.26E+1 <		-		-	-	-		
Sr-89 4.34E+5 - - - 2.42E+6 3.71E+5 1.25E+4 Sr-90 1.08E+8 - - - 1.65E+7 7.65E+5 6.68E+6 Sr-91 8.80E+1 - - - 6.07E+4 2.59E+5 3.51E+0 Sr-92 9.52E+0 - - - 2.74E+4 1.19E+5 4.06E-1 Y-90 2.98E+3 - - - 2.93E+5 5.59E+5 8.00E+1 Y-91m 3.70E-1 - - - 2.94E+6 4.09E+5 1.77E+4 Y-91 6.61E+5 - - - 2.94E+6 4.09E+5 1.77E+4 Y-92 1.47E+1 - - - 2.68E+4 1.65E+5 4.29E-1 Y-93 1.35E+2 - - - 8.32E+4 5.79E+5 3.72E+0 Zr-95 1.46E+5 4.58E+4 - 6.74E+4 2.69E+6 1.49E+5 3.15E+4 Zr-97 1.38E+2 2.72E+1 - 4.12E+1 1.30E+5 6.30E+5 1.26E+1		-		-	-	-		
Sr-90 1.08E+8 - - - 1.65E+7 7.65E+5 6.68E+6 Sr-91 8.80E+1 - - - 6.07E+4 2.59E+5 3.51E+0 Sr-92 9.52E+0 - - - 2.74E+4 1.19E+5 4.06E-1 Y-90 2.98E+3 - - - 2.93E+5 5.59E+5 8.00E+1 Y-91m 3.70E-1 - - - 2.94E+6 4.09E+5 1.77E+4 Y-91 6.61E+5 - - - 2.94E+6 4.09E+5 1.77E+4 Y-92 1.47E+1 - - 2.68E+4 1.65E+5 4.29E-1 Y-93 1.35E+2 - - - 8.32E+4 5.79E+5 3.72E+0 Zr-95 1.46E+5 4.58E+4 - 6.74E+4 2.69E+6 1.49E+5 3.15E+4 Zr-97 1.38E+2 2.72E+1 - 4.12E+1 1.30E+5 6.30E+5 1.26E+1 Nb-97 3.14E-1 7.78E-2 - 9.12E-2 3.93E+3 2.17E+3 2.84E-2 <t< td=""><td></td><td>- 4.24E+5</td><td></td><td>-</td><td>-</td><td>- 2.42E+6</td><td></td><td></td></t<>		- 4.24E+5		-	-	- 2.42E+6		
Sr-91 8.80E+1 - - - 6.07E+4 2.59E+5 3.51E+0 Sr-92 9.52E+0 - - - 2.74E+4 1.19E+5 4.06E-1 Y-90 2.98E+3 - - - 2.93E+5 5.59E+5 8.00E+1 Y-91m 3.70E-1 - - - 3.20E+3 3.02E+1 1.42E-2 Y-91 6.61E+5 - - - 2.94E+6 4.09E+5 1.77E+4 Y-92 1.47E+1 - - - 2.68E+4 1.65E+5 4.29E-1 Y-93 1.35E+2 - - - 8.32E+4 5.79E+5 3.72E+0 Zr-95 1.46E+5 4.58E+4 - 6.74E+4 2.69E+6 1.49E+5 3.15E+4 Zr-97 1.38E+2 2.72E+1 - 4.12E+1 1.30E+5 6.30E+5 1.26E+1 Nb-95 1.86E+4 1.03E+4 - 1.00E+4 7.51E+5 9.68E+4 5.66E+3 Nb-97 3.14E-1 7.78E-2 - 9.12E-2 3.93E+3 2.17E+3	Sr-89	4.34E+3	-	-	-	2.42E+6	3./1E+3	1.23E+4
Sr-92 9.52E+0 - - - 2.74E+4 1.19E+5 4.06E-1 Y-90 2.98E+3 - - - 2.93E+5 5.59E+5 8.00E+1 Y-91m 3.70E-1 - - - 3.20E+3 3.02E+1 1.42E-2 Y-91 6.61E+5 - - - 2.94E+6 4.09E+5 1.77E+4 Y-92 1.47E+1 - - - 2.68E+4 1.65E+5 4.29E-1 Y-93 1.35E+2 - - - 8.32E+4 5.79E+5 3.72E+0 Zr-95 1.46E+5 4.58E+4 - 6.74E+4 2.69E+6 1.49E+5 3.15E+4 Zr-97 1.38E+2 2.72E+1 - 4.12E+1 1.30E+5 6.30E+5 1.26E+1 Nb-95 1.86E+4 1.03E+4 - 1.00E+4 7.51E+5 9.68E+4 5.66E+3 Nb-97 3.14E-1 7.78E-2 - 9.12E-2 3.93E+3 2.17E+3 2.84E-2 Mo-99 - 1.69E+2 - 4.11E+2 1.54E+5 2.69E+5	Sr-90	1.08E+8	-	-	-	1.65E+7	7.65E+5	6.68E+6
Y-90 2.98E+3 - - - 2.93E+5 5.59E+5 8.00E+1 Y-91m 3.70E-1 - - - 3.20E+3 3.02E+1 1.42E-2 Y-91 6.61E+5 - - - 2.94E+6 4.09E+5 1.77E+4 Y-92 1.47E+1 - - - 2.68E+4 1.65E+5 4.29E-1 Y-93 1.35E+2 - - - 8.32E+4 5.79E+5 3.72E+0 Zr-95 1.46E+5 4.58E+4 - 6.74E+4 2.69E+6 1.49E+5 3.15E+4 Zr-97 1.38E+2 2.72E+1 - 4.12E+1 1.30E+5 6.30E+5 1.26E+1 Nb-95 1.86E+4 1.03E+4 - 1.00E+4 7.51E+5 9.68E+4 5.66E+3 Nb-97 3.14E-1 7.78E-2 - 9.12E-2 3.93E+3 2.17E+3 2.84E-2 Mo-99 - 1.69E+2 - 4.11E+2 1.54E+5 2.69E+5 3.22E+1 Tc-99m 1.38E-3 3.86E-3 - 5.76E-2 1.15E+3 6.13	Sr-91	8.80E+1	-	-	-	6.07E+4	2.59E+5	3.51E+0
Y-91m 3.70E-1 - - 3.20E+3 3.02E+1 1.42E-2 Y-91 6.61E+5 - - - 2.94E+6 4.09E+5 1.77E+4 Y-92 1.47E+1 - - - 2.68E+4 1.65E+5 4.29E-1 Y-93 1.35E+2 - - - 8.32E+4 5.79E+5 3.72E+0 Zr-95 1.46E+5 4.58E+4 - 6.74E+4 2.69E+6 1.49E+5 3.15E+4 Zr-97 1.38E+2 2.72E+1 - 4.12E+1 1.30E+5 6.30E+5 1.26E+1 Nb-95 1.86E+4 1.03E+4 - 1.00E+4 7.51E+5 9.68E+4 5.66E+3 Nb-97 3.14E-1 7.78E-2 - 9.12E-2 3.93E+3 2.17E+3 2.84E-2 Mo-99 - 1.69E+2 - 4.11E+2 1.54E+5 2.69E+5 3.22E+1 Tc-99m 1.38E-3 3.86E-3 - 5.76E-2 1.15E+3 6.13E+3 4.99E-2	Sr-92	9.52E+0	-	-	-	2.74E+4	1.19E+5	4.06E-1
Y-91m 3.70E-1 - - 3.20E+3 3.02E+1 1.42E-2 Y-91 6.61E+5 - - - 2.94E+6 4.09E+5 1.77E+4 Y-92 1.47E+1 - - - 2.68E+4 1.65E+5 4.29E-1 Y-93 1.35E+2 - - - 8.32E+4 5.79E+5 3.72E+0 Zr-95 1.46E+5 4.58E+4 - 6.74E+4 2.69E+6 1.49E+5 3.15E+4 Zr-97 1.38E+2 2.72E+1 - 4.12E+1 1.30E+5 6.30E+5 1.26E+1 Nb-95 1.86E+4 1.03E+4 - 1.00E+4 7.51E+5 9.68E+4 5.66E+3 Nb-97 3.14E-1 7.78E-2 - 9.12E-2 3.93E+3 2.17E+3 2.84E-2 Mo-99 - 1.69E+2 - 4.11E+2 1.54E+5 2.69E+5 3.22E+1 Tc-99m 1.38E-3 3.86E-3 - 5.76E-2 1.15E+3 6.13E+3 4.99E-2	Y-90	2.98E+3	-	-	-	2.93E+5	5.59E+5	8.00E+1
Y-92 1.47E+1 - - - 2.68E+4 1.65E+5 4.29E-1 Y-93 1.35E+2 - - - 8.32E+4 5.79E+5 3.72E+0 Zr-95 1.46E+5 4.58E+4 - 6.74E+4 2.69E+6 1.49E+5 3.15E+4 Zr-97 1.38E+2 2.72E+1 - 4.12E+1 1.30E+5 6.30E+5 1.26E+1 Nb-95 1.86E+4 1.03E+4 - 1.00E+4 7.51E+5 9.68E+4 5.66E+3 Nb-97 3.14E-1 7.78E-2 - 9.12E-2 3.93E+3 2.17E+3 2.84E-2 Mo-99 - 1.69E+2 - 4.11E+2 1.54E+5 2.69E+5 3.22E+1 Tc-99m 1.38E-3 3.86E-3 - 5.76E-2 1.15E+3 6.13E+3 4.99E-2	Y-91m	3.70E-1	-	-	-		3.02E+1	1.42E-2
Y-92 1.47E+1 - - - 2.68E+4 1.65E+5 4.29E-1 Y-93 1.35E+2 - - - 8.32E+4 5.79E+5 3.72E+0 Zr-95 1.46E+5 4.58E+4 - 6.74E+4 2.69E+6 1.49E+5 3.15E+4 Zr-97 1.38E+2 2.72E+1 - 4.12E+1 1.30E+5 6.30E+5 1.26E+1 Nb-95 1.86E+4 1.03E+4 - 1.00E+4 7.51E+5 9.68E+4 5.66E+3 Nb-97 3.14E-1 7.78E-2 - 9.12E-2 3.93E+3 2.17E+3 2.84E-2 Mo-99 - 1.69E+2 - 4.11E+2 1.54E+5 2.69E+5 3.22E+1 Tc-99m 1.38E-3 3.86E-3 - 5.76E-2 1.15E+3 6.13E+3 4.99E-2	V 01	6.61E+5				2.04E+6	4.00E+5	1.77E+4
Y-93 1.35E+2 - - - 8.32E+4 5.79E+5 3.72E+0 Zr-95 1.46E+5 4.58E+4 - 6.74E+4 2.69E+6 1.49E+5 3.15E+4 Zr-97 1.38E+2 2.72E+1 - 4.12E+1 1.30E+5 6.30E+5 1.26E+1 Nb-95 1.86E+4 1.03E+4 - 1.00E+4 7.51E+5 9.68E+4 5.66E+3 Nb-97 3.14E-1 7.78E-2 - 9.12E-2 3.93E+3 2.17E+3 2.84E-2 Mo-99 - 1.69E+2 - 4.11E+2 1.54E+5 2.69E+5 3.22E+1 Tc-99m 1.38E-3 3.86E-3 - 5.76E-2 1.15E+3 6.13E+3 4.99E-2			-	-	-			
Zr-95 1.46E+5 4.58E+4 - 6.74E+4 2.69E+6 1.49E+5 3.15E+4 Zr-97 1.38E+2 2.72E+1 - 4.12E+1 1.30E+5 6.30E+5 1.26E+1 Nb-95 1.86E+4 1.03E+4 - 1.00E+4 7.51E+5 9.68E+4 5.66E+3 Nb-97 3.14E-1 7.78E-2 - 9.12E-2 3.93E+3 2.17E+3 2.84E-2 Mo-99 - 1.69E+2 - 4.11E+2 1.54E+5 2.69E+5 3.22E+1 Tc-99m 1.38E-3 3.86E-3 - 5.76E-2 1.15E+3 6.13E+3 4.99E-2			-	-	-			
Zr-97 1.38E+2 2.72E+1 - 4.12E+1 1.30E+5 6.30E+5 1.26E+1 Nb-95 1.86E+4 1.03E+4 - 1.00E+4 7.51E+5 9.68E+4 5.66E+3 Nb-97 3.14E-1 7.78E-2 - 9.12E-2 3.93E+3 2.17E+3 2.84E-2 Mo-99 - 1.69E+2 - 4.11E+2 1.54E+5 2.69E+5 3.22E+1 Tc-99m 1.38E-3 3.86E-3 - 5.76E-2 1.15E+3 6.13E+3 4.99E-2			- 4.50E+4	-	- - 74E+4			
Nb-95 1.86E+4 1.03E+4 - 1.00E+4 7.51E+5 9.68E+4 5.66E+3 Nb-97 3.14E-1 7.78E-2 - 9.12E-2 3.93E+3 2.17E+3 2.84E-2 Mo-99 - 1.69E+2 - 4.11E+2 1.54E+5 2.69E+5 3.22E+1 Tc-99m 1.38E-3 3.86E-3 - 5.76E-2 1.15E+3 6.13E+3 4.99E-2				-				
Nb-97 3.14E-1 7.78E-2 - 9.12E-2 3.93E+3 2.17E+3 2.84E-2 Mo-99 - 1.69E+2 - 4.11E+2 1.54E+5 2.69E+5 3.22E+1 Tc-99m 1.38E-3 3.86E-3 - 5.76E-2 1.15E+3 6.13E+3 4.99E-2	Zr-9/	1.58E+2	2./2E+1	-	4.12E+1	1.30E+3	0.30E+3	1.20E+1
Nb-97 3.14E-1 7.78E-2 - 9.12E-2 3.93E+3 2.17E+3 2.84E-2 Mo-99 - 1.69E+2 - 4.11E+2 1.54E+5 2.69E+5 3.22E+1 Tc-99m 1.38E-3 3.86E-3 - 5.76E-2 1.15E+3 6.13E+3 4.99E-2	Nb-95	1.86E+4	1.03E+4	-	1.00E+4	7.51E+5	9.68E+4	5.66E+3
Tc-99m 1.38E-3 3.86E-3 - 5.76E-2 1.15E+3 6.13E+3 4.99E-2	Nb-97			-		3.93E+3		
Tc-99m 1.38E-3 3.86E-3 - 5.76E-2 1.15E+3 6.13E+3 4.99E-2	Mo-99	-	1.69E+2	-	4.11E+2	1.54E+5	2.69E+5	3.22E+1
Tc-101 5.92E-5 8.40E-5 - 1.52E-3 6.67E+2 8.72E-7 8.24E-4	Tc-99m	1.38E-3	3.86E-3	-	5.76E-2	1.15E+3	6.13E+3	4.99E-2
	Tc-101	5.92E-5	8.40E-5	-	1.52E-3	6.67E+2	8.72E-7	8.24E-4

 $\frac{\text{R}_{\text{io}}, \text{INHALATION PATHWAY DOSE FACTORS}}{\text{TEENAGER (mrem/yr per } \mu\text{Ci/m}^3)}$

<u>Nuclide</u>	Bone	Liver	<u>Thyroid</u>	<u>Kidney</u>	Lung	<u>GI-LLI</u>	<u>T.Body</u>
Ru-103	2.10E+3	-	-	7.43E+3	7.83E+5	1.09E+5	8.96E+2
Ru-105	1.12E+0	-	-	1.41E+0	1.82E+4	9.04E+4	4.34E-1
Ru-106	9.84E+4	-	-	1.90E+5	1.61E+7	9.60E+5	1.24E+4
Rh-103m	-	-	-	-	-	-	-
Rh-106	-	-	-	-	-	-	-
Ag-110m	1.38E+4	1.31E+4	-	2.50E+4	6.75E+6	2.73E+5	7.99E+3
Sb-124	4.30E+4	7.94E+2	9.76E+1	-	3.85E+6	3.98E + 5	1.68E+4
Sb-125	7.38E+4	8.08E+2	7.04E+1	-	2.74E+6	9.92E+4	1.72E+4
Te-125m	4.88E+3	2.24E+3	1.40E+3	-	5.36E+5	7.50E+4	6.67E + 2
Te-127m	1.80E+4	8.16E+3	4.38E+3	6.54E+4	1.66E+6	1.59E+5	2.18E+3
Te-127	2.01E+0	9.12E-1	1.42E+0	7.28E+0	1.12E+4	8.08E+4	4.42E-1
Te-129m	1.39E+4	6.58E+3	4.58E+3	5.19E+4	1.98E+6	4.05E+5	2.25E+3
Te-129	7.10E-2	3.38E-2	5.18E-2	2.66E-1	3.30E+3	1.62E+3	1.76E-2
Te-131m	9.84E+1	6.01E+1	7.25E+1	4.39E+2	2.38E+5	6.21E+5	4.02E+1
Te-131	1.58E-2	8.32E-3	1.24E-2	6.18E-2	2.34E+3	1.51E+1	5.04E-3
Te-132	3.60E+2	2.90E+2	2.46E+2	1.95E+3	4.49E+5	4.63E+5	2.19E+2
I-130	6.24E+3	1.79E+4	1.49E+6	2.75E+4	-	9.12E+3	7.17E+3
I-131	3.54E+4	4.91E+4	1.46E+7	8.40E+4	-	6.49E+3	2.64E+4
I-132	1.59E+3	4.38E+3	1.51E+5	6.92E+3	-	1.27E+3	1.58E+3
I-133	1.22E+4	2.05E+4	2.92E+6	3.59E+4	-	1.03E+4	6.22E+3
I-134	8.88E+2	2.32E+3	3.95E+4	3.66E+3	-	2.04E+1	8.40E+2
I-135	3.70E+3	9.44E+3	6.21E+5	1.49E+4	-	6.95E + 3	3.49E + 3
Cs-134	5.02E+5	1.13E+6	-	3.75E+5	1.46E+5	9.76E + 3	5.49E+5
Cs-136	5.15E+4	1.94E+5	-	1.10E+5	1.78E+4	1.09E+4	1.37E+5
Cs-137	6.70E+5	8.48E+5	-	3.04E+5	1.21E+5	8.48E+3	3.11E+5
Cs-138	4.66E+2	8.56E+2	-	6.62E+2	7.87E+1	2.70E-1	4.46E+2
Ba-139	1.34E+0	9.44E-4	-	8.88E-4	6.46E + 3	6.45E+3	3.90E-2
Ba-140	5.47E+4	6.70E+1	-	2.28E+1	2.03E+6	2.29E+5	3.52E+3
Ba-141	1.42E-1	1.06E-4	-	9.84E-5	3.29E+3	7.46E-4	4.74E-3
Ba-142	3.70E-2	3.70E-5	-	3.14E-5	1.91E+3	-	2.27E-3
La-140	4.79E+2	2.36E+2	-	-	2.14E+5	4.87E+5	6.26E+1
La-142	9.60E-1	4.25E-1	-	-	1.02E+4	1.20E+4	1.06E-1
Ce-141	2.84E+4	1.90E+4	-	8.88E+3	6.14E + 5	1.26E+5	2.17E+3
Ce-143	2.66E+2	1.94E+2	-	8.64E+1	1.30E+5	2.55E+5	2.16E+1
Ce-144	4.89E+6	2.02E+6	-	1.21E+6	1.34E+7	8.64E+5	2.62E+5
Pr-143	1.34E+4	5.31E+3	-	3.09E+3	4.83E+5	2.14E+5	6.62E+2
Pr-144	4.30E-2	1.76E-2	-	1.01E-2	1.75E+3	2.35E-4	2.18E-3
Nd-147	7.86E+3	8.56E+3	-	5.02E+3	3.72E + 5	1.82E+5	5.13E+2
W-187	1.20E+1	9.76E+0	-	-	4.74E+4	1.77E+5	3.43E+0
Np-239	3.38E+2	3.19E+1	-	1.00E+2	6.49E+4	1.32E+5	1.77E+1

Table 3-7 $\frac{R_{io},\,INHALATION\,PATHWAY\,DOSE\,FACTORS}{CHILD\,(mrem/yr\,per\,\mu Ci/m^3)}$

Nuclide	Bone	Liver	Thyroid	<u>Kidney</u>	Lung	<u>GI-LLI</u>	T.Body
H-3	_	1.12E+3	1.12E+3	1.12E+3	1.12E+3	1.12E+3	1.12E+3
C-14	3.59E+4	6.73E+3	6.73E+3	6.73E+3	6.73E+3	6.73E+3	6.73E+3
Na-24	1.61E+4	1.61E+4	1.61E+4	1.61E+4	1.61E+4	1.61E+4	1.61E+4
P-32	2.60E+6	1.14E+5	-	-	-	4.22E+4	9.88E+4
Cr-51	-	-	8.55E+1	2.43E+1	1.70E+4	1.08E+3	1.54E+2
3.6.54		4.000		1.005.4	1.505.6	2.205 . 4	0.515+2
Mn-54	-	4.29E+4	-	1.00E+4	1.58E+6	2.29E+4	9.51E+3
Mn-56	- 4.745+4	1.66E+0	-	1.67E+0	1.31E+4	1.23E+5	3.12E-1
Fe-55	4.74E+4	2.52E+4	-	-	1.11E+5	2.87E+3	7.77E+3
Fe-59	2.07E+4	3.34E+4	-	-	1.27E+6	7.07E+4	1.67E+4
Co-57	-	9.03E+2	-	-	5.07E+5	1.32E+4	1.07E+3
Co-58	-	1.77E+3	-	-	1.11E+6	3.44E+4	3.16E+3
Co-60	-	1.31E+4	-	-	7.07E+6	9.62E+4	2.26E+4
Ni-63	8.21E+5	4.63E+4	-	-	2.75E+5	6.33E+3	2.80E+4
Ni-65	2.99E+0	2.96E-1	-	-	8.18E+3	8.40E + 4	1.64E-1
Cu-64	-	1.99E+0	-	6.03E+0	9.58E+3	3.67E+4	1.07E+0
Zn-65	4.26E+4	1.13E+5	_	7.14E+4	9.95E+5	1.63E+4	7.03E+4
Zn-69	6.70E-2	9.66E-2	_	5.85E-2	1.42E+3	1.01E+4	8.92E-3
Br-82	-	J.00E 2	_	-	-	-	2.09E+4
Br-83	_	_	_	_	_	_	4.74E+2
Br-84	_	_	_	_	_	_	5.48E+2
Br-85	-	-	-	-	-	-	2.53E+1
Rb-86	-	1.98E+5	-	-	-	7.99E+3	1.14E+5
Rb-88	-	5.62E+2	-	-	-	1.72E+1	3.66E+2
Rb-89	-	3.45E+2	-	-	-	1.89E+0	2.90E+2
Sr-89	5.99E+5	-	-	-	2.16E+6	1.67E+5	1.72E+4
Sr-90	1.01E+8	-	-	-	1.48E+7	3.43E+5	6.44E+6
Sr-91	1.21E+2	-	-	-	5.33E+4	1.74E+5	4.59E+0
Sr-92	1.31E+1	-	-	-	2.40E+4	2.42E+5	5.25E-1
Y-90	4.11E+3	-	-	-	2.62E+5	2.68E+5	1.11E+2
Y-91m	5.07E-1	-	-	-	2.81E+3	1.72E+3	1.84E-2
Y-91	9.14E+5				2.63E+6	1.84E+5	2.44E+4
Y-92	2.04E+1	-	-	-	2.39E+4	2.39E+5	5.81E-1
Y-93	1.86E+2	-	-	-	7.44E+4	3.89E+5	5.11E+0
Zr-95	1.80E+2 1.90E+5	4.18E+4	-	5.96E+4	2.23E+6	6.11E+4	3.70E+4
			-				
Zr-97	1.88E+2	2.72E+1	-	3.89E+1	1.13E+5	3.51E+5	1.60E+1
Nb-95	2.35E+4	9.18E+3	-	8.62E+3	6.14E+5	3.70E+4	6.55E+3
Nb-97	4.29E-1	7.70E-2	-	8.55E-2	3.42E + 3	2.78E+4	3.60E-2
Mo-99	-	1.72E+2	-	3.92E+2	1.35E+5	1.27E+5	4.26E+1
Tc-99m	1.78E-3	3.48E-3	-	5.07E-2	9.51E+2	4.81E+3	5.77E-2
Tc-101	8.10E-5	8.51E-5	-	1.45E-3	5.85E+2	1.63E+1	1.08E-3

Table 3-7 $\frac{R_{io},\,INHALATION\,PATHWAY\,DOSE\,FACTORS}{CHILD\,(mrem/yr\,per\,\mu Ci/m^3)}$

Nuclide	Bone	Liver	<u>Thyroid</u>	<u>Kidney</u>	Lung	<u>GI-LLI</u>	T.Body
Ru-103	2.79E+3	-	-	7.03E+3	6.62E+5	4.48E+4	1.07E+3
Ru-105	1.53E+0	-	-	1.34E+0	1.59E+4	9.95E+4	5.55E-1
Ru-106	1.36E+5	-	-	1.84E+5	1.43E+7	4.29E+5	1.69E+4
Rh-103m	-	-	-	-	-	-	-
Rh-106	-	-	-	-	-	-	-
Ag-110m	1.69E+4	1.14E+4	-	2.12E+4	5.48E+6	1.00E+5	9.14E+3
Sb-124	5.74E+4	7.40E + 2	1.26E+2	-	3.24E+6	1.64E + 5	2.00E+4
Sb-125	9.84E+4	7.59E+2	9.10E+1	-	2.32E+6	4.03E+4	2.07E+4
Te-125m	6.73E+3	2.33E+3	1.92E+3	-	4.77E+5	3.38E+4	9.14E+2
Te-127m	2.49E+4	8.55E+3	6.07E+3	6.36E+4	1.48E+6	7.14E+4	3.02E+3
Te-127	2.77E+0	9.51E-1	1.96E+0	7.07E+0	1.00E+4	5.62E+4	6.11E-1
Te-129m	1.92E+4	6.85E+3	6.33E+3	5.03E+4	1.76E+6	1.82E+5	3.04E+3
Te-129	9.77E-2	3.50E-2	7.14E-2	2.57E-1	2.93E+3	2.55E+4	2.38E-2
Te-131m	1.34E+2	5.92E+1	9.77E+1	4.00E+2	2.06E+5	3.08E+5	5.07E+1
Te-131	2.17E-2	8.44E-3	1.70E-2	5.88E-2	2.05E+3	1.33E+3	6.59E-3
Te-132	4.81E+2	2.72E+2	3.17E+2	1.77E+3	3.77E + 5	1.38E+5	2.63E+2
I-130	8.18E+3	1.64E+4	1.85E+6	2.45E+4	-	;1E+3	8.44E+3
I-131	4.81E+4	4.81E+4	1.62E+7	7.88E+4	-	2.84E+3	2.73E+4
I-132	2.12E+3	4.07E+3	1.94E+5	6.25E+3	-	3.20E+3	1.88E+3
I-133	1.66E+4	2.03E+4	3.85E+6	3.38E+4	-	5.48E+3	7.70E+3
I-134	1.17E+3	2.16E+3	5.07E+4	3.30E+3	-	9.55E+2	9.95E+2
I-135	4.92E+3	8.73E+3	7.92E+5	1.34E+4	-	4.44E+3	4.14E+3
Cs-134	6.51E+5	1.01E+6	-	3.30E+5	1.21E+5	3.85E+3	2.25E+5
Cs-136	6.51E+4	1.71E+5	-	9.55E+4	1.45E+4	4.18E+3	1.16E+5
Cs-137	9.07E+5	8.25E+5	-	2.82E+5	1.04E+5	3.62E+3	1.28E+5
Cs-138	6.33E+2	8.40E+2	-	6.22E+2	6.81E+1	2.70E+2	5.55E+2
Ba-139	1.84E+0	9.84E-4	-	8.62E-4	5.77E+3	5.77E+4	5.37E-2
Ba-140	7.40E+4	6.48E+1	-	2.11E+1	1.74E+6	1.02E+5	4.33E+3
Ba-141	1.96E-1	1.09E-4	-	9.47E-5	2.92E+3	2.75E+2	6.36E-3
Ba-142	5.00E-2	3.60E-5	-	2.91E-5	1.64E+3	2.74E+0	2.79E-3
La-140	6.44E+2	2.25E+2	-	_	1.83E+5	2.26E+5	7.55E+1
La-142	1.30E+0	4.11E-1	-	-	8.70E+3	7.59E+4	1.29E-1
Ce-141	3.92E+4	1.95E+4	-	8.55E+3	5.44E+5	5.66E+4	2.90E+3
Ce-143	3.66E+2	1.99E+2	-	8.36E+1	1.15E+5	1.27E+5	2.87E+1
Ce-144	6.77E+6	2.12E+6	-	1.17E+6	1.20E+7	3.89E+5	3.61E+5
Pr-143	1.85E+4	5.55E+3	-	3.00E+3	4.33E+5	9.73E+4	9.14E+2
Pr-144	5.96E-2	1.85E-2	-	9.77E-3	1.57E+3	1.97E+2	3.00E-3
Nd-147	1.08E+4	8.73E+3	-	4.81E+3	3.28E+5	8.21E+4	6.81E+2
W-187	1.63E+1	9.66E+0	-	-	4.11E+4	9.10E+4	4.33E+0
Np-239	4.66E+2	3.34E+1	-	9.73E+1	5.81E+4	6.40E+4	2.35E+1

Table 3-7 $\frac{R_{io},\,INHALATION\,PATHWAY\,DOSE\,FACTORS}{INFANT\,(mrem/yr\,per\,\mu Ci/m^3)}$

Nuclide	Bone	Liver	Thyroid	<u>Kidney</u>	Lung	<u>GI-LLI</u>	T.Body
H-3	_	6.47E+2	6.47E+2	6.47E+2	6.47E+2	6.47E+2	6.47E+2
C-14	2.65E+4	5.31E+3	5.31E+3	5.31E+3	5.31E+3	5.31E+3	5.31E+3
Na-24	1.06E+4	1.06E+4	1.06E+4	1.06E+4	1.06E+4	1.06E+4	1.06E+4
P-32	2.03E+6	1.12E+5	1.00E · 1	1.00E · 1	1.00E · 1	1.61E+4	7.74E+4
Cr-51	2.03E+0	1.12L+3	5.75E+1	1.32E+1	1.28E+4	3.57E+2	8.95E+1
C1 51			3.73E · 1	1.321.1	1.202	3.371.2	0.932 1
Mn-54	-	2.53E+4	-	4.98E+3	1.00E+6	7.06E+3	4.98E+3
Mn-56	-	1.54E+0	-	1.10E+0	1.25E+4	7.17E+4	2.21E-1
Fe-55	1.97E+4	1.17E+4	-	-	8.69E+4	1.09E+3	3.33E+3
Fe-59	1.36E+4	2.35E+4	-	-	1.02E+6	2.48E+4	9.48E+3
Co-57	-	6.51E+2	-	-	3.79E+5	4.86E+3	6.41E+2
G #0		1.005.0			5.55T. 5	4.445.4	1.005.0
Co-58	-	1.22E+3	-	-	7.77E+5	1.11E+4	1.82E+3
Co-60	- 2.20E+5	8.02E+3	-	-	4.51E+6	3.19E+4	1.18E+4
Ni-63	3.39E+5	2.04E+4	-	-	2.09E+5	2.42E+3	1.16E+4
Ni-65	2.39E+0	2.84E-1	-	- 2.00E+0	8.12E+3	5.01E+4	1.23E-1
Cu-64	-	1.88E+0	-	3.98E+0	9.30E+3	1.50E+4	7.74E-1
Zn-65	1.93E+4	6.26E+4	-	3.25E+4	6.47E+5	5.14E+4	3.11E+4
Zn-69	5.39E-2	9.67E-2	-	4.02E-2	1.47E+3	1.32E+4	7.18E-3
Br-82	_	-	_	_	_	_	1.33E+4
Br-83	_	_	_	_	_	_	3.81E+2
Br-84	-	-	-	-	-	-	4.00E+2
Br-85	-	-	-	-	-	-	2.04E+1
Rb-86	-	1.90E+5	-	-	_	3.04E+3	8.82E+4
Rb-88	-	5.57E+2	-	-	-	3.39E+2	2.87E+2
Rb-89	-	3.21E+2	-	-	-	6.82E+1	2.06E+2
Sr-89	3.98E+5	-	-	-	2.03E+6	6.40E+4	1.14E+4
Sr-90	4.09E+7	_	_	_	1.12E+7	1.31E+5	2.59E+6
Sr-91	9.56E+1	_	_	_	5.26E+4	7.34E+4	3.46E+0
Sr-92	1.05E+1	_	_	_	2.38E+4	1.40E+5	3.91E-1
Y-90	3.29E+3	_	_	_	2.69E+5	1.04E+5	8.82E+1
Y-91m	4.07E-1	_	_	_	2.79E+3	2.35E+3	1.39E-2
_ ,							
Y-91	5.88E+5	-	-	-	2.45E+6	7.03E+4	1.57E+4
Y-92	1.64E+1	-	-	-	2.45E+4	1.27E + 5	4.61E-1
Y-93	1.50E+2	-	-	-	7.64E+4	1.67E+5	4.07E+0
Zr-95	1.15E+5	2.79E+4	-	3.11E+4	1.75E+6	2.17E+4	2.03E+4
Zr-97	1.50E+2	2.56E+1	-	2.59E+1	1.10E+5	1.40E+5	1.17E+1
Nb-95	1.57E+4	6.43E+3	_	4.72E+3	4.79E+5	1.27E+4	3.78E+3
Nb-93 Nb-97	1.57E∓4 3.42E-1	0.43E±3 7.29E-2	<u>-</u>	4.72E±3 5.70E-2	4.79E+3 3.32E+3	2.69E+4	3.78E±3 2.63E-2
Mo-99	J.74L-1	1.65E+2	-	2.65E+2	1.35E+5	4.87E+4	3.23E+1
Tc-99m	1.40E-3	1.03E+2 2.88E-3	-	3.11E-2	8.11E+2	4.87E+4 2.03E+3	3.72E-2
Tc-99m Tc-101	6.51E-5	2.88E-3 8.23E-5	-	3.11E-2 9.79E-4			3.72E-2 8.12E-4
10-101	0.31E-3	0.23E-3	-	フ. / ソ . -4	5.84E+2	8.44E+2	0.12E-4

Table 3-7 $\frac{R_{io},\,INHALATION\,PATHWAY\,DOSE\,FACTORS}{INFANT\,(mrem/yr\,per\,\mu Ci/m^3)}$

<u>Nuclide</u>	<u>Bone</u>	Liver	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	<u>T.Body</u>
Ru-103	2.02E+3	_	_	4.24E+3	5.52E+5	1.61E+4	6.79E+2
Ru-105	1.22E+0	-	-	8.99E-1	1.57E+4	4.84E+4	4.10E-1
Ru-106	8.68E+4	-	-	1.07E+5	1.16E+7	1.64E+5	1.09E+4
Rh-103m	-	-	-	-	_	-	_
Rh-106	-	-	-	-	-	-	-
Ag-110m	9.98E+3	7.22E+3	-	1.09E+4	3.67E+6	3.30E+4	5.00E+3
Sb-124	3.79E+4	5.56E+2	1.01E+2	1.07L + 4	2.65E+6	5.91E+4	1.20E+4
Sb-125	5.17E+4	4.77E+2	6.23E+1	_	1.64E+6	1.47E+4	1.09E+4
Te-125m	4.76E+3	1.99E+3	1.62E+3	_	4.47E+5	1.29E+4	6.58E+2
Te-127m	1.67E+4	6.90E+3	4.87E+3	3.75E+4	1.31E+6	2.73E+4	2.07E+3
10 12/111	1.072	0.70L · 3	1.071.3	3.7311	1.5112.0	2.731.1	2.071.3
Te-127	2.23E+0	9.53E-1	1.85E+0	4.86E+0	1.03E+4	2.44E+4	4.89E-1
Te-129m	1.41E+4	6.09E+3	5.47E+3	3.18E+4	1.68E+6	6.90E+4	2.23E+3
Te-129	7.88E-2	3.47E-2	6.75E-2	1.75E-1	3.00E+3	2.63E+4	1.88E-2
Te-131m	1.07E+2	5.50E+1	8.93E+1	2.65E+2	1.99E+5	1.19E+5	3.63E+1
Te-131	1.74E-2	8.22E-3	1.58E-2	3.99E-2	2.06E+3	8.22E+3	5.00E-3
Te-132	3.72E+2	2.37E+2	2.79E+2	1.03E+3	3.40E + 5	4.41E+4	1.76E+2
I-130	6.36E+3	1.39E+4	1.60E+6	1.53E+4	-	1.99E+3	5.57E+3
I-131	3.79E+4	4.44E+4	1.48E+7	5.18E+4	-	1.06E+3	1.96E+4
I-132	1.69E+3	3.54E+3	1.69E+5	3.95E+3	-	1.90E+3	1.26E+3
I-133	1.32E+4	1.92E+4	3.56E+6	2.24E+4	-	2.16E+3	5.60E+3
I-134	9.21E+2	1.88E+3	4.45E+4	2.09E+3	-	1.29E+3	6.65E+2
I-135	3.86E+3	7.60E + 3	6.96E+5	8.47E + 3	-	1.83E+3	2.77E + 3
Cs-134	3.96E+5	7.03E+5	-	1.90E+5	7.97E+4	1.33E+3	7.45E+4
Cs-136	4.83E+4	1.35E+5	-	5.64E+4	1.18E+4	1.43E+3	5.29E+4
Cs-137	5.49E+5	6.12E+5	-	1.72E+5	7.13E+4	1.33E+3	4.55E+4
Cs-138	5.05E+2	7.81E+2	_	4.10E+2	6.54E+1	8.76E+2	3.98E+2
Ba-139	1.48E+0	9.84E-4	_	5.92E-4	5.95E+3	5.10E+4	4.30E-2
Ba-140	5.60E+4	5.60E+1	-	1.34E+1	1.60E+6	3.84E+4	2.90E+3
Ba-141	1.57E-1	1.08E-4	_	6.50E-5	2.97E+3	4.75E+3	4.97E-3
Ba-142	3.98E-2	3.30E-5	-	1.90E-5	1.55E+3	6.93E+2	1.96E-3
La-140	5.05E+2	2.00E+2	-	_	1.68E+5	8.48E+4	5.15E+1
La-142	1.03E+0	3.77E-1	_	_	8.22E+3	5.95E+4	9.04E-2
Ce-141	2.77E+4	1.67E+4	_	5.25E+3	5.17E+5	2.16E+4	1.99E+3
Ce-143	2.93E+2	1.93E+2	_	5.64E+1	1.16E+5	4.97E+4	2.21E+1
Ce-143	3.19E+6	1.21E+6	_	5.38E+5	9.84E+6	1.48E+5	1.76E+5
			_				
Pr-143	1.40E+4	5.24E+3	-	1.97E+3	4.33E+5	3.72E+4	6.99E+2
Pr-144	4.79E-2	1.85E-2	-	6.72E-3	1.61E+3	4.28E+3	2.41E-3
Nd-147	7.94E+3	8.13E+3	-	3.15E+3	3.22E+5	3.12E+4	5.00E+2
W-187	1.30E+1	9.02E+0	-	-	3.96E+4	3.56E+4	3.12E+0
Np-239	3.71E+2	3.32E+1	-	6.62E+1	5.95E+4	2.49E+4	1.88E+1

Table 3-8

 $\frac{R_{io}\text{, GRASS - COW - MILK PATHWAY DOSE FACTORS}}{ADULT \text{ (mrem/yr per } \mu\text{Ci/m}^3\text{) for H-3 and C-14}} \\ \text{ (m}^2*\text{ mrem/yr per } \mu\text{Ci/sec}\text{) for others}$

		`	<i>J</i> 1	,			
Nuclide	<u>Bone</u>	Liver	<u>Thyroid</u>	<u>Kidney</u>	Lung	<u>GI-LLI</u>	T.Body
H-3	_	7.63E+2	7.63E+2	7.63E+2	7.63E+2	7.63E+2	7.63E+2
C-14	2 625 15			7.03E+2 7.26E+4			
	3.63E+5	7.26E+4	7.26E+4		7.26E+4	7.26E+4	7.26E+4
Na-24	2.54E+6	2.54E+6	2.54E+6	2.54E+6	2.54E+6	2.54E+6	2.54E+6
P-32	1.71E+10	1.06E+9	<u>-</u>	-		1.92E+9	6.60E+8
Cr-51	-	-	1.71E+4	6.30E+3	3.80E+4	7.20E+6	2.86E+4
Mn-54	_	8.40E+6	-	2.50E+6	-	2.57E+7	1.60E+6
Mn-56	-	4.23E-3	-	5.38E-3	-	1.35E-1	7.51E-4
Fe-55	2.51E+7	1.73E+7	_	-	9.67E+6	9.95E+6	4.04E+6
Fe-59	2.98E+7	7.00E+7	_	_	1.95E+7	2.33E+8	2.68E+7
Co-57	-	1.28E+6	_	_	_	3.25E+7	2.13E+6
Co-58	-	4.72E+6	-	-	-	9.57E+7	1.06E+7
Co-60	-	1.64E+7	-	-	-	3.08E + 8	3.62E+7
Ni-63	6.73E+9	4.66E + 8	-	-	-	9.73E+7	2.26E + 8
Ni-65	3.70E-1	4.81E-2	-	-	-	1.22E+0	2.19E-2
Cu-64	_	2.41E+4	_	6.08E + 4	_	2.05E+6	1.13E+4
Zn-65	1.37E+9	4.36E+9	-	2.92E+9	-	2.75E+9	1.97E+9
Zn-69	-	-	-	-	-	-	-
Br-82	-	-	-	-	-	3.72E+7	3.25E+7
Br-83	-	-	-	-	-	1.49E-1	1.03E-1
Br-84	-	-	-	-	-	-	-
D., 05							
Br-85	-	2.50E+0	-	-	-	- - 11E+0	1 21E+0
Rb-86	-	2.59E+9	-	-	-	5.11E+8	1.21E+9
Rb-88	-	-	-	-	-	-	-
Rb-89	-	-	-	-	-	-	-
Sr-89	1.45E+9	-	-	-	-	2.33E+8	4.16E+7
Sr-90	4.68E+10	-	-	-	-	1.35E+9	1.15E+10
Sr-91	3.13E+4	-	_	-	-	1.49E+5	1.27E+3
Sr-92	4.89E-1	_	_	_	_	9.68E+0	2.11E-2
Y-90	7.07E+1	_	_	_	_	7.50E+5	1.90E+0
Y-91m	-	_	_	_	_	-	-
Y-91	8.60E + 3	-	-	-	-	4.73E+6	2.30E+2
Y-92	5.42E-5	-	-	-	-	9.49E-1	1.58E-6
Y-93	2.33E-1	-	-	-	-	7.39E+3	6.43E-3
Zr-95	9.46E+2	3.03E+2	-	4.76E+2	-	9.62E+5	2.05E+2
Zr-97	4.26E-1	8.59E-2	-	1.30E-1	-	2.66E+4	3.93E-2
Nb-95	8.25E+4	4.59E+4	_	4.54E+4	_	2.79E+8	2.47E+4
Nb-97	-	-	_	-	_	5.47E-9	2.1,12.1
Mo-99	_	2.52E+7	_	5.72E+7	_	5.85E+7	4.80E+6
Tc-99m	3.25E+0	9.19E+0	-	1.40E+2	4.50E+0	5.44E+3	1.17E+2
Tc-99III Tc-101	3.43E±0	7.17 L⊤U	-	1. 4 0£⊤∠	4.50E⊤0	J. 44 L⊤3	1.1 / L⊤Z
16-101	-	-	-	-	-	-	-

Table 3-8

 $\frac{R_{io}\text{, GRASS - COW - MILK PATHWAY DOSE FACTORS}}{ADULT \text{ (mrem/yr per } \mu\text{Ci/m}^3\text{) for H-3 and C-14}} \\ \text{ (m}^2*\text{ mrem/yr per } \mu\text{Ci/sec) for others}$

Nuclide	<u>Bone</u>	<u>Liver</u>	Thyroid	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	T.Body
Ru-103	1.02E+3	-	_	3.89E+3	-	1.19E+5	4.39E+2
Ru-105	8.57E-4	-	-	1.11E-2	-	5.24E-1	3.38E-4
Ru-106	2.04E+4	-	-	3.94E+4	-	1.32E+6	2.58E+3
Rh-103m	-	-	-	_	-	_	_
Rh-106	-	-	-	-	-	-	-
Ag-110m	5.83E+7	5.39E+7	-	1.06E+8	-	2.20E+10	3.20E+7
Sb-124	2.57E+7	4.86E+5	6.24E+4	-	2.00E+7	7.31E+8	1.02E+7
Sb-125	2.04E+7	2.28E+5	2.08E+4	-	1.58E+7	2.25E + 8	4.86E+6
Te-125m	1.63E+7	5.90E+6	4.90E+6	6.63E + 7	-	6.50E+7	2.18E+6
Te-127m	4.58E+7	1.64E+7	1.17E+7	1.86E+8	-	1.54E+8	5.58E+6
Te-127	6.72E+2	2.41E+2	4.98E+2	2.74E+3	-	5.30E+4	1.45E+2
Te-129m	6.04E+7	2.25E+7	2.08E+7	2.52E + 8	-	3.04E+8	9.57E+6
Te-129	-	-	-	-	-	-	-
Te-131m	3.61E+5	1.77E+5	2.80E+5	1.79E+6	-	1.75E+7	1.47E+5
Te-131	-	-	-	-	-	-	-
Te-132	2.39E+6	1.55E+6	1.71E+6	1.49E+7	-	7.32E+7	1.45E+6
I-130	4.26E+5	1.26E+6	1.07E+8	1.96E+6	-	1.08E+6	4.96E+5
I-131	2.96E + 8	4.24E+8	1.39E+11	7.27E + 8	-	1.12E+8	2.43E+8
I-132	1.64E-1	4.37E-1	1.53E+1	6.97E-1	-	8.22E-2	1.53E-1
I-133	3.97E+6	6.90E+6	1.01E+9	1.20E+7	-	6.20E+6	2.10E+6
I-134	-	-	-	-	-	-	-
I-135	1.39E+4	3.63E+4	2.40E+6	5.83E+4	-	4.10E+4	1.34E+4
Cs-134	5.65E+9	1.34E+10	-	4.35E+9	1.44E+9	2.35E+8	1.10E+10
Cs-136	2.61E+8	1.03E+9	-	5.74E + 8	7.87E+7	1.17E + 8	7.42E + 8
Cs-137	7.38E+9	1.01E+10	-	3.43E+9	1.14E+9	1.95E+8	6.61E+9
Cs-138	-	-	-	-	-	-	-
Ba-139	4.70E-8	-	-	-	-	8.34E-8	1.38E-9
Ba-140	2.69E+7	3.38E+4	-	1.15E+4	1.93E+4	5.54E+7	1.76E+6
Ba-141	-	-	-	-	-	-	-
Ba-142	-	-	-	-	-	-	-
La-140	4.49E+0	2.26E+0	-	-	-	1.66E+5	5.97E-1
La-142	-	-	-	-	-	3.03E-8	-
Ce-141	4.84E+3	3.27E+3	-	1.52E+3	-	1.25E+7	3.71E+2
Ce-143	4.19E+1	3.09E+4	-	1.36E+1	-	1.16E+6	3.42E+0
Ce-144	3.58E+5	1.50E+5	-	8.87E+4	-	1.21E+8	1.92E+4
Pr-143	1.59E+2	6.37E+1	-	3.68E+1	-	6.96E+5	7.88E+0
Pr-144	-	-	-	-	-	-	-
Nd-147	9.42E+1	1.09E+2	-	6.37E+1	-	5.23E+5	6.52E+0
W-187	6.56E+3	5.48E+3	-	-	-	1.80E+6	1.92E+3
Np-239	3.66E+0	3.60E-1	-	1.12E+0	-	7.39E+4	1.98E-1

Table 3-8

 $\frac{R_{io}\text{, GRASS - COW - MILK PATHWAY DOSE FACTORS}}{\text{TEENAGER (mrem/yr per } \mu\text{Ci/m}^3\text{) for H-3 and C-14}}\\ \text{(m}^2*\text{mrem/yr per } \mu\text{Ci/sec) for others}$

Nuclide	Bone	<u>Liver</u>	Thyroid	<u>Kidney</u>	Lung	<u>GI-LLI</u>	T.Body
H-3 C-14 Na-24 P-32 Cr-51	6.70E+5 4.44E+6 3.15E+10	9.94E+2 1.34E+5 4.44E+6 1.95E+9	9.94E+2 1.34E+5 4.44E+6 - 2.78E+4	9.94E+2 1.34E+5 4.44E+6 - 1.10E+4	9.94E+2 1.34E+5 4.44E+6 - 7.13E+4	9.94E+2 1.34E+5 4.44E+6 2.65E+9 8.40E+6	9.94E+2 1.34E+5 4.44E+6 1.22E+9 5.00E+4
Mn-54 Mn-56 Fe-55 Fe-59 Co-57	- 4.45E+7 5.20E+7	1.40E+7 7.51E-3 3.16E+7 1.21E+8 2.25E+6	- - - -	4.17E+6 9.50E-3 - -	2.00E+7 3.82E+7	2.87E+7 4.94E-1 1.37E+7 2.87E+8 4.19E+7	2.78E+6 1.33E-3 7.36E+6 4.68E+7 3.76E+6
Co-58 Co-60 Ni-63 Ni-65 Cu-64	- 1.18E+10 6.78E-1	7.95E+6 2.78E+7 8.35E+8 8.66E-2 4.29E+4	- - - -	- - - 1.09E+5	- - - -	1.10E+8 3.62E+8 1.33E+8 4.70E+0 3.33E+6	1.83E+7 6.26E+7 4.01E+8 3.94E-2 2.02E+4
Zn-65 Zn-69 Br-82 Br-83 Br-84	2.11E+9 - - - -	7.31E+9 - - -	- - - -	4.68E+9 - - -	- - - -	3.10E+9 - - -	3.41E+9 5.64E+7 1.91E-1
Br-85 Rb-86 Rb-88 Rb-89 Sr-89	- - - 2.67E+9	4.73E+9 - - -	- - - -	- - - -	- - - -	7.00E+8 - - 3.18E+8	2.22E+9 - - 7.66E+7
Sr-90 Sr-91 Sr-92 Y-90 Y-91m	6.61E+10 5.75E+4 8.95E-1 1.30E+2	- - - -	- - - -	- - - -	- - - -	1.86E+9 2.61E+5 2.28E+1 1.07E+6	1.63E+10 2.29E+3 3.81E-2 3.50E+0
Y-91 Y-92 Y-93 Zr-95 Zr-97	1.58E+4 1.00E-4 4.30E-1 1.65E+3 7.75E-1	5.22E+2 1.53E-1	- - - -	7.67E+2 2.32E-1	- - - -	6.48E+6 2.75E+0 1.31E+4 1.20E+6 4.15E+4	4.24E+2 2.90E-6 1.18E-2 3.59E+2 7.06E-2
Nb-95 Nb-97 Mo-99 Tc-99m Tc-101	1.41E+5 - - 5.64E+0 -	7.80E+4 - 4.56E+7 1.57E+1	- - - -	7.57E+4 - 1.04E+8 2.34E+2	- - 8.73E+0 -	3.34E+8 6.34E-8 8.16E+7 1.03E+4	4.30E+4 8.69E+6 2.04E+2

Table 3-8

 $\frac{R_{io}\text{, GRASS - COW - MILK PATHWAY DOSE FACTORS}}{\text{TEENAGER (mrem/yr per } \mu\text{Ci/m}^3\text{) for H-3 and C-14}}\\ \text{(m}^{2*}\text{ mrem/yr per } \mu\text{Ci/sec) for others}$

Nuclide	Bone	<u>Liver</u>	Thyroid	Kidney	Lung	<u>GI-LLI</u>	T.Body
Ru-103	1.81E+3	-	-	6.40E+3	-	1.52E+5	7.75E+2
Ru-105	1.57E-3	-	-	1.97E-2	-	1.26E+0	6.08E-4
Ru-106	3.75E+4	-	-	7.23E+4	-	1.80E+6	4.73E+3
Rh-103m	-	-	-	-	-	-	-
Rh-106	-	-	-	-	-	-	-
Ag-110m	9.63E+7	9.11E+7	_	1.74E+8	_	2.56E+10	5.54E+7
Sb-124	4.59E+7	8.46E+5	1.04E+5	-	4.01E+7	9.25E+8	1.79E+7
Sb-125	3.65E+7	3.99E+5	3.49E+4	-	3.21E+7	2.84E + 8	8.54E+6
Te-125m	3.00E+7	1.08E+7	8.39E+6	-	-	8.86E+7	4.02E+6
Te-127m	8.44E+7	2.99E+7	2.01E+7	3.42E+8	-	2.10E+8	1.00E+7
Te-127	1.24E+3	4.41E+2	8.59E+2	5.04E+3	_	9.61E+4	2.68E+2
Te-127	1.11E+8	4.10E+7	3.57E+7	4.62E+8	_	4.15E+8	1.75E+7
Te-129III	1.11L+0		3.37E+7	1.67E-9	_	2.18E-9	1./3L+/
Te-131m	6.57E+5	3.15E+5	4.74E+5	3.29E+6	_	2.53E+7	2.63E+5
Te-131	-	-	-	-	_	-	-
Te-132	4.28E+6	2.71E+6	2.86E+6	2.60E+7	_	8.58E+7	2.55E+6
I-130	7.49E+5	2.17E+6	1.77E+8	3.34E+6	_	1.67E+6	8.66E+5
I-131	5.38E+8	7.53E+8	2.20E+11	1.30E+9	_	1.49E+8	4.04E+8
I-132	2.90E-1	7.59E-1	2.56E+1	1.20E+0	-	3.31E-1	2.72E-1
I-133	7.24E+6	1.23E+7	1.72E+9	2.15E+7	-	9.30E+6	3.75E+6
I-134							
I-134 I-135	2.47E+4	6.35E+4	4.08E+6	1.00E+5	_	7.03E+4	2.35E+4
Cs-134	9.81E+9	2.31E+10		7.34E+9	2.80E+9	2.87E+8	1.07E+10
Cs-134 Cs-136	4.45E+8	1.75E+9	_	9.53E+8	1.50E+8	1.41E+8	1.07E+10 1.18E+9
Cs-137	1.34E+10	1.78E+10	_	6.06E+9	2.35E+9	2.53E+8	6.20E+9
					,		
Cs-138	-	-	-	-	-	-	-
Ba-139	8.69E-8	- 5.05E+4	-	- 2.02E+4	- 4.00E+4	7.75E-7	2.53E-9
Ba-140	4.85E+7	5.95E+4	-	2.02E+4	4.00E+4	7.49E+7	3.13E+6
Ba-141 Ba-142	-	-	-	-	-	-	-
Ba-142	-	-	-	-	-	-	-
La-140	8.06E+0	3.96E+0	-	-	-	2.27E+5	1.05E+0
La-142	-	-	-	-	-	2.23E-7	-
Ce-141	8.87E+3	5.92E+3	-	2.79E+3	-	1.69E+7	6.81E+2
Ce-143	7.69E+1	5.60E+4	-	2.51E+1	-	1.68E+6	6.25E+0
Ce-144	6.58E+5	2.72E+5	-	1.63E+5	-	1.66E+8	3.54E+4
Pr-143	2.92E+2	1.17E+2	_	6.77E+1	_	9.61E+5	1.45E+1
Pr-144	-	-	_	-	_	-	-
Nd-147	1.81E+2	1.97E+2	-	1.16E+2	-	7.11E+5	1.18E+1
W-187	1.20E+4	9.78E+3	-	-	-	2.65E+6	3.43E+3
Np-239	6.99E+0	6.59E-1	-	2.07E+0	-	1.06E+5	3.66E-1

Table 3-8

 $\frac{R_{io}\text{, GRASS - COW - MILK PATHWAY DOSE FACTORS}}{\text{CHILD (mrem/yr per } \mu\text{Ci/m}^3\text{) for H-3 and C-14}}{(m^2*\text{ mrem/yr per } \mu\text{Ci/sec})\text{ for others}}$

Nuclide	Bone	<u>Liver</u>	Thyroid	Kidney	<u>Lung</u>	<u>GI-LLI</u>	T.Body
H-3	_	1.57E+3	1.57E+3	1.57E+3	1.57E+3	1.57E+3	1.57E+3
C-14	1.65E+6	3.29E+5	3.29E+5	3.29E+5	3.29E+5	3.29E+5	3.29E+5
Na-24	9.23E+6	9.23E+6	9.23E+6	9.23E+6	9.23E+6	9.23E+6	9.23E+6
P-32	7.77E+10	3.64E+9	-	-	J.232 · 0	2.15E+9	3.00E+9
Cr-51	-	5.0 IE · 5	5.66E+4	1.55E+4	1.03E+5	5.41E+6	1.02E+5
C1 51			3.00E 1	1.33 <u>L</u> · 1	1.031.7	3.11L+0	1.021.73
Mn-54	-	2.09E+7	-	5.87E+6	-	1.76E+7	5.58E+6
Mn-56	-	1.31E-2	-	1.58E-2	-	1.90E+0	2.95E-3
Fe-55	1.12E+8	5.93E+7	-	-	3.35E+7	1.10E+7	1.84E+7
Fe-59	1.20E + 8	1.95E+8	-	-	5.65E+7	2.03E+8	9.71E+7
Co-57	-	3.84E+6	-	-	-	3.14E+7	7.77E+6
Co-58	_	1.21E+7	_	_	_	7.08E+7	3.72E+7
Co-60	_	4.32E+7	_	_	_	2.39E+8	1.27E+8
Ni-63	2.96E+10	1.59E+9	_	_	_	1.07E+8	1.01E+9
Ni-65	1.66E+0	1.56E-1	-	-	-	1.91E+1	9.11E-2
Cu-64	1.00E+0 -	7.55E+4	-	1.82E+5	-	3.54E+6	4.56E+4
Cu-04	-	7.33E±4	-	1.62E∓3	-	3.34E±0	4.30E⊤4
Zn-65	4.13E+9	1.10E+10	-	6.94E+9	-	1.93E+9	6.85E+9
Zn-69	-	-	-	-	-	2.14E-9	_
Br-82	-	-	-	-	-	-	1.15E+8
Br-83	-	-	-	-	-	-	4.69E-1
Br-84	-	-	-	-	-	-	-
Br-85							
Rb-86	-	8.77E+9	-	-	-	5.64E+8	5.39E+9
Rb-88	-	6.77E∓9	-	-	-	3.04E±6	3.39E±9
	-	-	-	-	-	-	-
Rb-89	- 6.62E+0	-	-	-	-	2.56E+9	- 1 00E+0
Sr-89	6.62E+9	-	-	-	-	2.56E+8	1.89E+8
Sr-90	1.12E+11	-	-	-	-	1.51E+9	2.83E+10
Sr-91	1.41E+5	-	-	-	-	3.12E+5	5.33E+3
Sr-92	2.19E+0	-	-	-	-	4.14E+1	8.76E-2
Y-90	3.22E+2	-	-	-	-	9.15E+5	8.61E+0
Y-91m	-	-	-	-	-	-	-
Y-91	3.91E+4	_	_	_	_	5.21E+6	1.04E+3
Y-92	2.46E-4	_	_	_	_	7.10E+0	7.03E-6
Y-93	1.06E+0	_	_	_	_	1.57E+4	2.90E-2
Zr-95	3.84E+3	8.45E+2	-	1.21E+3	-	8.81E+5	7.52E+2
Zr-93 Zr-97	3.84E±3 1.89E+0	6.43E+2 2.72E-1	-	1.21E±3 3.91E-1	-		
Zr-9/	1.89E±0	2./2E-1	-	3.91E-1	-	4.13E+4	1.61E-1
Nb-95	3.18E+5	1.24E+5	-	1.16E+5	-	2.29E+8	8.84E+4
Nb-97	-	-	-	-	-	1.45E-6	-
Mo-99	-	8.29E+7	-	1.77E+8	-	6.86E+7	2.05E+7
Tc-99m	1.29E+1	2.54E+1	-	3.68E+2	1.29E+1	1.44E+4	4.20E+2
Tc-101	_	_	-	-	-	-	-

Table 3-8

R_{io}, GRASS - COW - MILK PATHWAY DOSE FACTORS CHILD (mrem/yr per μ Ci/m³) for H-3 and C-14 (m² * mrem/yr per μ Ci/sec) for others

Nuclide Thyroid Kidney T.Body Bone Liver Lung GI-LLI Ru-103 4.29E+3 1.08E+41.65E+31.11E+5 Ru-105 3.82E-3 1.39E-3 3.36E-2 2.49E+0Ru-106 9.24E+41.25E+5 1.44E+61.15E+4Rh-103m -Rh-106 Ag-110m 2.09E+81.41E+8 2.63E + 81.13E+8 1.68E+10 Sb-124 1.09E + 81.41E + 82.40E+5_ 6.03E+76.79E + 83.81E+7 Sb-125 4.85E+7 8.70E + 71.41E+6 8.06E+42.08E + 81.82E+7Te-125m 7.38E+7 2.00E+72.07E+77.12E+7 9.84E+6 Te-127m 2.08E + 85.60E+7 4.97E+7 5.93E+8 1.68E + 82.47E+7 Te-127 3.06E+38.25E+22.12E+38.71E+3 1.20E+5 6.56E+2Te-129m 2.72E + 88.78E+7 8.00E + 87.61E+73.32E + 84.23E+7 Te-129 -_ -2.87E-9 6.12E-8 _ Te-131m 1.60E+6 5.53E+5 1.14E+6 5.35E+6 2.24E+7 5.89E+5 _ _ Te-131 _ _ _ _ 4.20E+7 Te-132 1.02E+74.52E+66.58E+64.55E+7 5.46E+6I-130 1.75E+6 3.54E+6 3.90E + 85.29E+6 1.66E+61.82E+61.31E+9 I-131 1.30E+9 4.34E+11 2.15E+9 1.17E + 87.46E + 8I-132 6.86E-1 1.26E+05.85E+11.93E+0 1.48E+05.80E-1 3.63E+7 -I-133 1.76E+7 2.18E+7 4.04E+9 8.77E+68.23E+6 I-134 I-135 5.84E+41.05E+5 9.30E+6 1.61E+5 8.00E+44.97E+4 1.15E+10 4.13E+9 Cs-134 _ 2.26E+10 3.71E+10 2.00E + 87.83E+9Cs-136 1.00E + 92.76E+91.47E+9 2.19E + 89.70E+7 1.79E+9 3.09E+10 -Cs-137 3.22E+10 1.01E+10 3.62E+9 1.93E + 84.55E+9 Cs-138 - 1.23E-5 Ba-139 2.14E-7 6.19E-9 3.34E+4 6.12E+4 5.94E+7 Ba-140 1.17E+8 1.03E+5 6.84E+6Ba-141 Ba-142 La-140 1.93E+1 6.74E+01.88E+5 2.27E+0La-142 -2.51E-6 _ 4.78E+3 Ce-141 2.19E+4 1.09E+4 1.62E + 31.36E+7Ce-143 4.29E+11.89E + 21.02E+51.50E+61.48E+1Ce-144 1.62E+6 5.09E+5 2.82E+5 1.33E+8 8.66E+41.17E+2 Pr-143 7.23E+2 2.17E+27.80E + 53.59E+1Pr-144 _ _ -_ -Nd-147 4.45E+2 3.60E+21.98E+25.71E+5 2.79E+1 W-187 1.72E+42.91E+4_ 2.42E+67.73E+3

3.57E+0 -

Np-239

1.72E+1

1.23E+0

8.68E-1

9.14E+4

Table 3-8

GRASS COW MILK PATHWAY DOSE

 $\frac{R_{io}, GRASS - COW - MILK PATHWAY DOSE FACTORS}{INFANT (mrem/yr per <math>\mu Ci/m^3$) for H-3 and C-14 (m² * mrem/yr per $\mu Ci/sec$) for others

Nuclide	Bone	Liver	<u>Thyroid</u>	Kidney	Lung	<u>GI-LLI</u>	T.Body
H-3 C-14	- 3.23E+6	2.38E+3 6.89E+5	2.38E+3 6.89E+5	2.38E+3 6.89E+5	2.38E+3 6.89E+5	2.38E+3 6.89E+5	2.38E+3 6.89E+5
Na-24	1.61E+7	1.61E+7	1.61E+7	1.61E+7	1.61E+7	1.61E+7	1.61E+7
P-32	1.60E+11	9.42E+9	- 1.05E+5	- 2.20E+4	- 2.05E+5	2.17E+9	6.21E+9
Cr-51	-	-	1.05E+5	2.30E+4	2.05E+5	4.71E+6	1.61E+5
Mn-54	-	3.89E+7	-	8.63E+6	-	1.43E+7	8.83E+6
Mn-56	-	3.21E-2	-	2.76E-2	-	2.91E+0	5.53E-3
Fe-55	1.35E+8	8.72E+7	-	-	4.27E+7	1.11E+7	2.33E+7
Fe-59	2.25E+8	3.93E+8	-	-	1.16E+8	1.88E+8	1.55E+8
Co-57	-	8.95E+6	-	-	-	3.05E+7	1.46E+7
Co-58	-	2.43E+7	-	-	-	6.05E+7	6.06E+7
Co-60	-	8.81E+7	-	-	-	2.10E + 8	2.08E+8
Ni-63	3.49E+10	2.16E+9	-	-	-	1.07E + 8	1.21E+9
Ni-65	3.51E+0	3.97E-1	-	-	-	3.02E+1	1.81E-1
Cu-64	-	1.88E+5	-	3.17E+5	-	3.85E+6	8.69E+4
Zn-65	5.55E+9	1.90E+10	-	9.23E+9	-	1.61E+10	8.78E+9
Zn-69	-	-	-	-	-	7.36E-9	-
Br-82	-	-	-	-	-	-	1.94E+8
Br-83	-	-	-	-	-	-	9.95E-1
Br-84	-	-	-	-	-	-	-
Br-85	-	-	-	-	-	-	-
Rb-86	-	2.22E+10	-	-	-	5.69E+8	1.10E+10
Rb-88	-	-	-	-	-	-	-
Rb-89	-	-	-	-	-	-	-
Sr-89	1.26E+10	-	-	-	-	2.59E+8	3.61E+8
Sr-90	1.22E+11	-	-	-	-	1.52E+9	3.10E+10
Sr-91	2.94E+5	-	-	-	-	3.48E + 5	1.06E+4
Sr-92	4.65E+0	-	-	-	-	5.01E+1	1.73E-1
Y-90	6.80E+2	-	-	-	-	9.39E+5	1.82E+1
Y-91m	-	-	-	-	-	-	-
Y-91	7.33E+4	-	-	-	-	5.26E+6	1.95E+3
Y-92	5.22E-4	-	-	-	-	9.97E+0	1.47E-5
Y-93	2.25E+0	-	-	-	-	1.78E+4	6.13E-2
Zr-95	6.83E+3	1.66E+3	-	1.79E+3	-	8.28E+5	1.18E+3
Zr-97	3.99E+0	6.85E-1	-	6.91E-1	-	4.37E+4	3.13E-1
Nb-95	5.93E+5	2.44E+5	-	1.75E+5	-	2.06E+8	1.41E+5
Nb-97	-	-	-	-	-	3.70E-6	-
Mo-99	-	2.12E+8	-	3.17E+8	-	6.98E+7	4.13E+7
Tc-99m	2.69E+1	5.55E+1	-	5.97E+2	2.90E+1	1.61E+4	7.15E+2
Tc-101	-	-	-	-	-	-	-

Table 3-8

 $\frac{R_{io}, GRASS - COW - MILK PATHWAY DOSE FACTORS}{INFANT (mrem/yr per <math>\mu Ci/m^3$) for H-3 and C-14 (m² * mrem/yr per $\mu Ci/sec$) for others

Nuclide	<u>Bone</u>	<u>Liver</u>	<u>Thyroid</u>	<u>Kidney</u>	Lung	<u>GI-LLI</u>	<u>T.Body</u>
Ru-103	8.69E+3	-	-	1.81E+4	-	1.06E+5	2.91E+3
Ru-105	8.06E-3	-	-	5.92E-2	-	3.21E+0	2.71E-3
Ru-106	1.90E+5	-	-	2.25E+5	-	1.44E+6	2.38E+4
Rh-103m	-	-	-	-	-	-	-
Rh-106	-	-	-	-	-	-	-
Ag-110m	3.86E+8	2.82E+8	-	4.03E+8	-	1.46E+10	1.86E+8
Sb-124	2.09E + 8	3.08E+6	5.56E+5	-	1.31E+8	6.46E + 8	6.49E+7
Sb-125	1.49E+8	1.45E+6	1.87E+5	-	9.38E+7	1.99E+8	3.07E+7
Te-125m	1.51E+8	5.04E+7	5.07E+7	-	-	7.18E+7	2.04E+7
Te-127m	4.21E+8	1.40E+8	1.22E+8	1.04E+9	-	1.70E+8	5.10E+7
Te-127	6.50E+3	2.18E+3	5.29E+3	1.59E+4	-	1.36E+5	1.40E+3
Te-129m	5.59E+8	1.92E+8	2.15E+8	1.40E+9	-	3.34E+8	8.62E+7
Te-129	2.08E-9	<u>-</u>	1.75E-9	5.18E-9	-	1.66E-7	-
Te-131m	3.38E+6	1.36E+6	2.76E+6	9.35E+6	-	2.29E+7	1.12E+6
Te-131	-	- 4.0.455	-	-	-	-	-
Te-132	2.10E+7	1.04E+7	1.54E+7	6.51E+7	-	3.85E+7	9.72E+6
I-130	3.60E+6	7.92E+6	8.88E+8	8.70E+6	-	1.70E+6	3.18E+6
I-131	2.72E+9	3.21E+9	1.05E+12	3.75E+9	-	1.15E+8	1.41E+9
I-132	1.42E+0	2.89E+0	1.35E+2	3.22E+0	-	2.34E+0	1.03E+0
I-133	3.72E+7	5.41E+7	9.84E+9	6.36E+7	-	9.16E+6	1.58E+7
I-134	-	-	1.01E-9	-	-	-	-
I-135	1.21E+5	2.41E+5	2.16E+7	2.69E + 5	-	8.74E+4	8.80E+4
Cs-134	3.65E+10	6.80E+10	-	1.75E+10	7.18E+9	1.85E+8	6.87E+9
Cs-136	1.96E+9	5.77E+9	-	2.30E+9	4.70E+8	8.76E+7	2.15E+9
Cs-137	5.15E+10	6.02E+10	-	1.62E+10	6.55E+9	1.88E+8	4.27E+9
Cs-138	-	_	-	-	-	-	-
Ba-139	4.55E-7	-	-	-	-	2.88E-5	1.32E-8
Ba-140	2.41E+8	2.41E+5	-	5.73E+4	1.48E+5	5.92E+7	1.24E+7
Ba-141	-	-	-	-	-	-	-
Ba-142	-	-	-	-	-	-	-
La-140	4.03E+1	1.59E+1	-	-	-	1.87E+5	4.09E+0
La-142	-	-	-	-	-	5.21E-6	-
Ce-141	4.33E+4	2.64E+4	-	8.15E+3	-	1.37E+7	3.11E+3
Ce-143	4.00E+2	2.65E+5	-	7.72E+1	-	1.55E+6	3.02E+1
Ce-144	2.33E+6	9.52E+5	-	3.85E+5	-	1.33E+8	1.30E+5
Pr-143	1.49E+3	5.59E+2	-	2.08E+2	-	7.89E+5	7.41E+1
Pr-144	-	-	-	-	-	-	-
Nd-147	8.82E+2	9.06E+2	-	3.49E+2	-	5.74E+5	5.55E+1
W-187	6.12E+4	4.26E+4	-	-	-	2.50E+6	1.47E+4
Np-239	3.64E+1	3.25E+0	-	6.49E+0	-	9.40E+4	1.84E+0

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Table 3-9

 $\frac{R_{io}, GRASS - GOAT - MILK PATHWAY DOSE FACTORS}{ADULT (mrem/yr per <math>\mu Ci/m^3) \text{ for H-3 and C-14}}{(m^2*mrem/yr per <math>\mu Ci/sec) \text{ for others}}$

Nuclide	Bone	Liver	Thyroid	Kidney	Lung	<u>GI-LLI</u>	<u>T.Body</u>
H-3	_	1.56E+3	1.56E+3	1.56E+3	1.56E+3	1.56E+3	1.56E+3
C-14	3.63E+5	7.26E+4	7.26E+4	7.26E+4	7.26E+4	7.26E+4	7.26E+4
Na-24	3.05E+5	3.05E+5	3.05E+5	3.05E+5	3.05E+5	3.05E+5	3.05E+5
P-32	2.05E+10	1.27E+9	-	- -	-	2.30E+9	7.92E+8
Cr-51	-	-	2.05E+3	7.56E+2	4.56E+3	8.64E+5	3.43E+3
CI 31			2.031.13	7.301 2	1.50E+5	0.0 IL 13	3.13E+3
Mn-54	-	1.01E+6	-	3.00E+5	-	3.08E+6	1.92E+5
Mn-56	-	5.08E-4	-	6.46E-4	-	1.65E-2	9.01E-5
Fe-55	3.31E+5	2.28E+5	-	-	1.28E+5	1.31E+5	5.33E+4
Fe-59	3.93E+5	9.24E+5	-	-	2.57E+5	3.08E+6	3.54E+5
Co-57	-	1.54E+5	-	-	-	3.90E+6	2.56E+5
Co-58		5.66E+5	_	_	_	1.15E+7	1.27E+6
Co-60	-	1.97E+6	-	- -	-	3.70E+7	3.34E+6
Ni-63	8.08E+8	5.59E+7	-	-	-	3.70E+7 1.17E+7	2.71E+7
			-	-	-	1.17E+7 1.46E-1	2.71E+7 2.63E-3
Ni-65	4.44E-2	5.77E-3	-	- - 70E+2	-		
Cu-64	-	2.69E+3	-	6.79E+3	-	2.79E+5	1.26E+3
Zn-65	1.64E+8	5.23E+8	-	3.50E+8	-	3.30E+8	2.36E+8
Zn-69	-	-	-	-	-	-	-
Br-82	-	-	-	-	-	4.46E+6	3.90E+6
Br-83	-	-	-	-	-	1.79E-2	1.24E-2
Br-84	-	-	-	-	-	-	-
D 05							
Br-85	-	2.115+0	-	-	-	- (12E+7	- 1 45E+0
Rb-86	-	3.11E+8	-	-	-	6.13E+7	1.45E+8
Rb-88	-	-	-	-	-	-	-
Rb-89	-	-	-	-	-	-	
Sr-89	3.04E+9	-	-	-	-	4.89E+8	8.74E+7
Sr-90	9.83E+10	-	-	_	_	2.84E+9	2.42E+10
Sr-91	6.57E+4	-	_	-	_	3.13E+5	2.67E+3
Sr-92	1.03E+0	_	_	_	_	2.03E+1	4.43E-2
Y-90	8.48E+0	_	_	_	_	9.00E+4	2.28E-1
Y-91m	-	-	-	-	-	-	
** 04	1.025.2					# #45 · #	0.ECT : 1
Y-91	1.03E+3	-	-	-	-	5.71E+5	2.76E+1
Y-92	6.50E-6	-	-	-	-	1.14E-1	1.90E-7
Y-93	2.80E-2	-	-	-	-	8.87E+2	7.72E-4
Zr-95	1.15E+2	3.64E+1	-	5.71E+1	-	1.15E+5	2.46E+1
Zr-97	5.11E-2	1.03E-2	-	1.56E-2	-	3.19E+3	4.72E-3
Nb-95	9.90E+3	5.51E+3	_	5.34E+3	_	3.35E+7	2.96E+3
Nb-97	-	-	_	-	_	6.56E-10	-
Mo-99	_	3.02E+6	_	6.96E+6	_	7.02E+6	5.76E+5
Tc-99m	3.90-1	1.10E+0	_	1.68E+1	5.40E-1	6.53E+2	1.40E+1
Tc-101	-	-	_	-	-	-	-
10101							

Table 3-9

 $\frac{R_{io},\,GRASS-GOAT-MILK\,PATHWAY\,DOSE\,FACTORS}{ADULT\,(mrem/yr\,per\,\mu Ci/m^3)\,\,for\,\,H\text{--}3\,\,and\,\,C\text{--}14}{(m^2*mrem/yr\,per\,\mu Ci/sec)\,\,for\,\,others}$

Nuclide	<u>Bone</u>	<u>Liver</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	T.Body
Ru-103	1.22E+2	-	-	4.67E+2	-	1.43E+4	5.27E+1
Ru-105	1.03E-4	-	-	1.33E-3	-	6.29E-2	4.06E-5
Ru-106	2.45E+3	-	-	4.73E+3	-	1.58E+5	3.10E+2
Rh-103m	-	-	-	-	-	-	-
Rh-106	-	-	-	-	-	-	-
Ag-110m	6.70E+6	6.47E+6	-	1.27E+7	-	2.64E+9	3.84E+6
Sb-124	3.08E+6	5.83E+4	7.49E+3	-	2.40E+6	8.77E+7	1.22E+6
Sb-125	2.45E+6	2.74E+4	2.50E+3	-	1.90E+6	2.70E+7	5.83E+5
Te-125m	1.96E+6	7.08E+5	5.88E+5	7.96E+6	-	7.80E+6	2.62E+5
Te-127m	5.50E+6	1.97E+6	1.40E+6	2.23E+7	-	1.85E+7	6.70E+5
Te-127	8.06E+1	2.89E+1	5.80E+1	3.29E+2	-	6.36E+3	1.74E+1
Te-129m	7.25E+6	2.70E+6	2.50E+6	3.02E+7	-	3.65E+7	1.15E+6
Te-129	-	-	-	-	-	-	-
Te-131m	4.33E+4	2.12E+4	3.36E+4	2.15E+5	-	2.10E+6	1.76E+4
Te-131	-	-	-	-	-	-	-
Te-132	2.87E+5	1.96E+5	2.05E+5	1.79E+6	-	8.78E+6	1.74E+5
I-130	5.11E+5	1.51E+6	1.28E+8	2.35E+6	-	1.30E+6	5.95E+5
I-131	3.55E+8	5.01E+8	1.67E+11	8.72E+8	-	1.34E+8	2.92E+8
I-132	1.97E-1	5.24E-1	1.84E+1	8.36E-1	-	9.86E-2	1.84E-1
I-133	4.76E+6	8.28E+6	1.21E+9	1.44E+7	-	7.44E+6	2.52E+6
I-134	-	-	_	-	-	-	-
I-135	1.67E+4	4.36E+4	2.88E+6	6.70E+4	-	4.92E+4	1.61E+4
Cs-134	1.70E+10	4.02E+10	-	1.31E+10	4.32E+9	7.05E+8	3.30E+10
Cs-136	7.83E+8	3.09E+9	-	1.72E+9	2.36E+8	3.31E+8	2.23E+9
Cs-137	2.21E+10	3.03E+10	-	1.03E+10	3.42E+9	5.85E+8	1.98E+10
Cs-138	-	-	_	-	-	-	-
Ba-139	5.64E-9	-	-	-	-	1.00E-8	1.66E-10
Ba-140	3.23E+6	4.06E+3	-	1.38E+3	2.32E+3	6.65E+6	2.11E+5
Ba-141	-	-	-	-	-	-	-
Ba-142	-	-	-	-	-	-	-
La-140	5.39E-1	2.71E-1	-	-	-	1.99E+4	7.16E-2
La-142	-	-	-	-	-	3.64E-9	-
Ce-141	5.81E+2	3.92E+2	-	1.82E+2	-	1.50E+6	4.45E+1
Ce-143	5.03E+0	3.71E+3	-	1.62E+0	-	1.39E+5	4.10E-1
Ce-144	4.30E+4	1.80E+4	-	1.06E+4	-	1.45E+7	2.30E+3
Pr-143	1.91E+1	7.64E+0	-	4.42E+0	-	8.35E+4	9.46E-1
Pr-144	-	-	-	-	-	-	-
Nd-147	1.13E+1	1.31E+1	-	7.64E+0	-	6.28E+4	6.74E-1
W-187	7.87E+2	6.58E+2	-	-	-	2.16E+5	2.30E+2
Np-239	4.39E-1	4.32E-2	-	1.34E-1	-	8.87E+3	2.38E-2

Table 3-9

 $\frac{R_{io},\,GRASS\text{ - GOAT\text{ - MILK PATHWAY DOSE FACTORS}}{TEENAGER\,(mrem/yr\,per\,\mu\text{Ci/m}^3)\,\,for\,\,H\text{-}3\,\,and\,\,C\text{-}14}}{(m^2*mrem/yr\,per\,\mu\text{Ci/sec})\,\,for\,\,others}$

		,		•			
Nuclide	Bone	<u>Liver</u>	<u>Thyroid</u>	<u>Kidney</u>	<u>Lung</u>	<u>GI-LLI</u>	T.Body
H-3		2.03E+3	2.03E+3	2.03E+3	2.03E+3	2.03E+3	2.03E+3
	- - 70E+5						
C-14	6.70E+5	1.34E+5	1.34E+5	1.34E+5	1.34E+5	1.34E+5	1.34E+5
Na-24	5.33E+5	5.33E+5	5.33E+5	5.33E+5	5.33E+5	5.33E+5	5.33E+5
P-32	3.78E+10	2.34E+9	-	_	-	3.18E+9	1.46E+9
Cr-51	-	-	3.34E+3	1.32E+3	8.56E+3	1.01E+6	6.00E+3
Mn-54	-	1.68E+6	-	5.00E+5	-	3.44E+6	3.34E+5
Mn-56	-	9.01E-4	_	1.14E-3	_	5.93E-2	1.60E-4
Fe-55	5.79E+5	4.11E+5	_	_	2.60E+5	1.78E+5	9.57E+4
Fe-59	6.76E+5	1.57E+6	_	_	4.97E+5	3.73E+6	6.08E+5
Co-57	-	2.70E+5	_	_	,, 2 0	5.03E+6	4.51E+5
Co-58	-	9.54E+5	-	-	-	1.32E+7	2.20E+6
Co-60	-	3.34E+6	-	_	-	4.34E+7	7.51E+6
Ni-63	1.42E+9	1.00E+8	-	-	-	1.60E + 7	4.81E+7
Ni-65	8.14E-2	1.04E-2	-	-	-	5.64E-1	4.73E-3
Cu-64	-	4.78E+3	-	1.21E+4	-	3.71E+5	2.25E+3
Zn-65	2.53E+8	8.77E+8	_	5.62E+8	_	3.72E+8	4.09E+8
Zn-69	_	_	_	_	_	_	_
Br-82	_	_	_	_	_	_	6.77E+6
Br-83	_	_	_	_	_	_	2.29E-2
Br-84	_	_	_	_	_	_	2.276 2
D1-04			_	_	_	_	
Br-85	-	-	-	-	-	-	-
Rb-86	-	5.68E + 8	-	_	-	8.40E+7	2.66E + 8
Rb-88	-	-	-	-	-	-	-
Rb-89	-	-	-	-	-	-	-
Sr-89	5.61E+9	-	-	-	-	6.68E+8	1.61E+8
C= 00	1 20E+11					2.01E+0	2 42E+10
Sr-90	1.39E+11	-	-	-	-	3.91E+9	3.42E+10
Sr-91	1.20E+5	-	-	-	-	5.48E+5	4.81E+3
Sr-92	1.88E+0	-	-	-	-	4.79E+1	8.00E-2
Y-90	1.56E+1	-	-	-	-	1.28E+5	4.20E-1
Y-91m	-	-	-	-	-	-	-
Y-91	1.90E+3	-	-	-	-	7.78E+5	5.09E+1
Y-92	1.20E-5	-	-	-	-	3.30E-1	3.48E-7
Y-93	5.16E-2	-	-	-	-	1.57E+3	1.42E-3
Zr-95	1.98E+2	6.26E+1	_	9.20E+1	_	1.44E+5	4.31E+1
Zr-97	9.30E-2	1.84E-2	-	2.78E-2	-	4.98E+3	8.47E-3
Nb-95	1.69E+4	936E+3	_	9.08E+3	_	4.01E+7	5.16E+3
Nb-97	-	-	_	-	_	7.61E-9	-
Mo-99	_	5.47E+6	_	1.25E+7	_	9.79E+6	1.04E+6
Tc-99m	6.77E-1	1.88E+0	_	2.81E+1	1.05E+0	1.24E+3	2.45E+1
Tc-101	0.//L-1	1.001	_	2.01L 1	1.03L + 0	1.∠¬L + J	∠. ∃JL + 1
10-101	-	-	-	-	-	-	-

Table 3-9

 $\frac{R_{io}, GRASS - GOAT - MILK PATHWAY DOSE FACTORS}{TEENAGER (mrem/yr per <math>\mu Ci/m^3$) for H-3 and C-14 (m²* mrem/yr per $\mu Ci/sec$) for others

Nuclide	Bone	<u>Liver</u>	Thyroid	<u>Kidney</u>	Lung	<u>GI-LLI</u>	T.Body
Ru-103	2.17E+2	_	_	7.68E+2	_	1.82E+4	9.30E+1
Ru-105	1.88E-4	-	_	2.36E-3	_	1.51E-1	7.30E-5
Ru-106	4.50E+3	-	_	8.68E+3	_	2.16+E5	5.68E+2
Rh-103m	-	_	_	-	_	-	-
Rh-106	-	-	-	-	-	-	-
Ag-110m	1.16E+7	1.09E+7	-	2.09E+7	-	3.07E+9	6.65E+6
Sb-124	5.51E+6	1.02E+5	1.25E+4	-	4.81E+6	1.11E+8	2.15E+6
Sb-125	4.38E+6	4.79E+4	4.19E+3	-	3.85E+6	3.41E+7	1.02E+6
Te-125m	3.60E+6	1.30E+6	1.01E+6	-	-	1.06E+7	4.82E+5
Te-127m	1.01E+7	3.59E+6	2.41E+6	4.10E+7	-	2.52E+7	1.20E+6
Te-127	1.49E+2	5.29E+1	1.03E+2	6.05E+2	-	1.15E+4	3.22E+1
Te-129m	1.33E+7	4.92E+6	4.28E+6	5.54E+7	_	4.98E+7	2.10E+6
Te-129	-	-	-	2.00E-10	_	2.62E-10	-
Te-131m	7.88E+4	3.78E+4	5.69E+4	3.95E+5	_	3.04E+6	3.16E+4
Te-131	-	-	-	-	_	_	-
Te-132	5.14E+5	3.25E+5	3.43E + 5	3.12E+6	_	1.03E+7	3.06E + 5
I-130	8.99E+5	2.60E+6	2.12E+8	4.01E+6	_	2.00E+6	1.04E+6
I-131	6.46E + 8	9.04E + 8	2.64E+11	1.56E+9	-	1.79E+8	4.85E + 8
I-132	3.48E-1	9.11E-1	3.07E+1	1.44E+0	_	3.97E-1	3.26E-1
I-133	8.69E+6	1.48E+7	2.06E+9	2.58E+7	-	1.12E+7	4.50E+6
I-134	-	-	-	-	-	-	-
I-135	2.96E+4	7.62E+4	4.90E+6	1.20E+5	_	8.44E+4	2.82E+4
Cs-134	2.94E+10	6.93E+10	-	2.20E+10	8.40E+9	8.61E+8	3.21E+10
Cs-136	1.34E+9	5.25E+9	-	2.86E + 9	4.50E+8	4.23E+8	3.54E+9
Cs-137	4.02E+10	5.34E+10	-	1.82E+10	7.05E+9	7.59E+8	1.86E+10
Cs-138	-	-	-	-	-	-	-
Ba-139	1.04E-8	-	-	-	-	9.30E-8	3.04E-10
Ba-140	5.82E+6	7.14E+3	-	2.42E+3	4.80E+3	6.99E+6	3.76E + 5
Ba-141	-	-	-	-	-	-	-
Ba-142	-	-	-	-	-	-	-
La-140	9.67E-1	4.75E-1	-	-	-	2.72E+4	1.26E-1
La-142	-	-	-	-	_	2.68E-8	-
Ce-141	1.06E+3	7.10E+2	-	3.35E+2	-	2.03E+6	8.17E+1
Ce-143	9.23E+0	6.72E + 3	-	3.01E+0	-	2.02E+5	7.50E-1
Ce-144	7.90E+4	3.26E+4	-	1.96E+4	-	1.99E+7	4.25E+3
Pr-143	3.50E+1	1.40E+1	-	8.12E+0	-	1.15E+5	1.74E+0
Pr-144	-	-	-	-	-	-	-
Nd-147	2.17E+1	2.36E+1	-	1.39E+1	-	8.53E+4	1.42E+0
W-187	1.44E+3	1.17E+3	-	-	-	3.18E+5	4.12E+2
Np-239	8.39E-1	7.91E-2	-	2.48E-1	-	1.27E+4	4.39E-2

Table 3-9

 $\frac{R_{io},\,GRASS-GOAT-MILK\,PATHWAY\,DOSE\,FACTORS}{CHILD\,(mrem/yr\,per\,\mu Ci/m^3)\,\,for\,\,H\text{--}3\,\,and\,\,C\text{--}14}{(m^2*mrem/yr\,per\,\mu Ci/sec)\,\,for\,\,others}$

Nuclide	Bone	<u>Liver</u>	<u>Thyroid</u>	Kidney	Lung	<u>GI-LLI</u>	<u>T.Body</u>
H-3	-	3.20E+3	3.20E+3	3.20E+3	3.20E+3	3.20E+3	3.20E+3
C-14	1.65E+6	3.29E+5	3.29E+5	3.29E+5	3.29E+5	3.29E+5	3.29E+5
Na-24	1.11E+6	1.11E+6	1.11E+6	1.11E+6	1.11E+6	1.11E+6	1.11E+6
P-32	9.32E+10	4.37E+9	-	-	-	2.58E+9	3.60E+9
Cr-51	-	-	6.79E+3	1.86E+3	1.24E+4	6.49E+5	1.22E+4
Mn-54	-	2.51E+6	-	7.04E+5	-	2.11E+6	6.70E+5
Mn-56	-	1.57E-3	-	1.90E-3	-	2.28E-1	3.54E-4
Fe-55	1.46E+6	7.71E+5	-	-	4.36E+5	1.43E+5	2.39E+5
Fe-59	1.56E+6	2.54E+6	-	-	7.34E+5	2.64E+6	1.26E+6
Co-57	-	4.61E+5	-	-	-	3.77E+6	9.32E+5
Co-58	-	1.45E+6	-	-	-	8.50E+6	4.46E+6
Co-60	-	5.18E+6	-	-	-	2.87E+7	1.52E+7
Ni-63	3.55E+9	1.91E+8	-	-	-	1.28E+7	1.21E+8
Ni-65	1.99E-1	1.82E-2	-	-	-	2.29E+0	1.09E-2
Cu-64	-	8.41E+3	-	2.03E+4	-	3.94E+5	5.08E+3
Zn-65	4.96E+8	1.32E+9	-	8.33E+8	-	2.32E+8	8.22E+8
Zn-69	-	-	-	-	-	2.57E-10	-
Br-82	-	-	-	-	-	-	1.38E+7
Br-83	-	-	-	-	-	-	5.63E-2
Br-84	-	-	-	-	-	-	-
Br-85	-	-	-	-	-	-	-
Rb-86	-	1.05E+9	-	-	-	6.77E+7	6.47E+8
Rb-88	-	-	-	-	-	-	-
Rb-89	-	-	-	-	-	-	-
Sr-89	1.39E+10	-	-	-	-	5.38E+8	3.97E+8
Sr-90	2.35E+11	-	_	-	-	3.17E+9	5.94E+10
Sr-91	2.96E+5	-	-	-	-	6.55E+5	1.12E+4
Sr-92	4.60E+0	-	-	-	-	8.69E+1	1.84E-1
Y-90	3.86E+1	-	-	-	-	1.10E+5	1.03E+0
Y-91m	-	-	-	-	-	-	-
Y-91	4.69E+3	-	-	-	-	6.25E+5	1.25E+2
Y-92	2.95E-5	-	-	-	-	8.52E-1	8.44E-7
Y-93	1.27E-1	-	-	-	-	1.88E+3	3.48E-3
Zr-95	4.61E+2	1.01E+2	-	1.45E+2	-	1.06E + 5	9.02E+1
Zr-97	2.27E-1	3.26E-2	-	4.69E-2	-	4.96E+3	1.93E-2
Nb-95	3.82E+4	1.49E+4	-	1.39E+4	-	2.75E+7	1.06E+4
Nb-97	-	-	-	-	-	1.74E-7	-
Mo-99	-	9.95E+6	-	2.12E+7	-	8.23E+6	2.46E+6
Tc-99m	1.55E+0	3.05E+0	-	4.42E+1	1.55E+0	1.73E+3	5.04E+1
Tc-101	-	-	-	-	-	-	-

Table 3-9

 $\frac{R_{io},\,GRASS-GOAT-MILK\,PATHWAY\,DOSE\,FACTORS}{CHILD\,(mrem/yr\,per\,\mu Ci/m^3)\,\,for\,\,H\text{--}3\,\,and\,\,C\text{--}14}{(m^2*mrem/yr\,per\,\mu Ci/sec)\,\,for\,\,others}$

		,		*			
Nuclide	<u>Bone</u>	<u>Liver</u>	<u>Thyroid</u>	<u>Kidney</u>	Lung	<u>GI-LLI</u>	<u>T.Body</u>
Ru-103	5.15E+2	_	_	1.30E+3	_	1.33E+4	1.98E+2
Ru-105	4.58E-4	_	_	4.03E-3	_	2.99E-1	1.67E-4
Ru-106	1.11E+4	_	_	1.50E+4	_	1.73E+5	1.38E+3
Rh-103m	-	_	_	-	_	-	-
Rh-106	_	_	_	_	_	_	_
141 100							
Ag-110m	2.51E+7	1.69E+7	-	2.76E+7	-	2.02E+9	1.36E+7
Sb-124	1.31E+7	1.69E+7	2.88E+4	-	7.24E+6	8.15E+7	4.57E+6
Sb-125	1.04E+7	1.69E+5	9.67E + 3	-	5.82E+6	2.50E+7	2.18E+6
Te-125m	8.86E+6	2.40E+6	2.49E+6	-	-	8.54E+6	1.18E+6
Te-127m	2.50E+7	6.72E+6	5.96E+6	7.12E+7	-	2.02E+7	2.96E+6
Te-127	3.67E+2	9.90E+1	2.54E+2	1.04E+3	-	1.44E+4	7.87E+1
Te-129m	3.26E+7	9.13E+6	1.05E+7	9.60E+7	-	3.98E+7	5.08E+6
Te-129	-	-	-	3.44E-10	-	7.34E-9	-
Te-131m	1.92E+5	6.64E+4	1.37E+5	6.42E + 5	-	2.69E+6	7.07E+4
Te-131	-	-	-	-	-	-	-
Te-132	1.22E+6	5.42E + 5	7.90E+5	5.04E+6	-	5.46E+6	6.55E+5
I-130	2.11E+6	4.25E+6	4.68E+8	6.35E+6	-	1.99E+6	2.18E+6
I-131	1.56E+9	1.57E+9	5.21E+11	2.58E+9	-	1.40E+8	8.95E+8
I-132	8.23E-1	1.51E+0	7.02E+1	2.32E+0	-	1.78E+0	6.96E-1
I-133	2.11E+7	2.62E+7	4.85E+9	4.36E+7	-	1.05E+7	9.88E+6
I-134	_	_	_	_	_	_	_
I-135	7.01E+4	1.26E+5	1.12E+7	1.93E+5	_	9.60E+4	5.96E+4
Cs-134	6.78E+10	1.13E+11	-	3.45E+10	1.24E+10	6.00E+8	2.35E+10
Cs-136	3.00E+9	8.28E+9	_	4.41E+9	6.57E+8	2.91E+8	5.37E+9
Cs-137	9.66E+10	9.27E+10	_	3.03E+10	1.09E+10	5.79E+8	1.36E+10
Cs-138	- 2.57E-0	-	-	-	-	- 1 40E (- 7.45E 10
Ba-139	2.57E-8	- 1 0 4E + 4	-	- 4.01E+2	- 7.24E+2	1.48E-6	7.45E-10
Ba-140	1.40E+7	1.24E+4	-	4.01E+3	7.34E+3	7.13E+6	8.21E+5
Ba-141	-	-	-	-	-	-	-
Ba-142	-	-	-	-	-	-	-
La-140	2.32E+0	8.09E-1	_	_	_	2.26E+4	2.72E-1
La-142	-	-	_	_	_	3.01E-7	-
Ce-141	2.63E+3	1.31E+3	_	5.74E+2	_	1.63E+6	1.84E+2
Ce-143	2.27E+1	1.22E+4	_	5.15E+0	_	1.80E+5	1.78E+0
Ce-144	1.94E+5	6.11E+4	_	3.38E+4	_	1.60E+7	1.04E+4
CC 111	1.5 11.5	0.112		3.30E · 1		1.002	1.0 12
Pr-143	8.68E+1	2.60E+1	-	1.40E+1	-	9.36E+4	4.31E+0
Pr-144	-	-	-	-	-	-	-
Nd-147	5.34E+1	4.32E+1	-	2.38E+1	-	6.83E+4	3.35E+0
W-187	3.49E+3	2.06E+3	-	-	-	2.96E+5	9.28E+2
Np-239	2.06E+0	1.48E-1	-	4.28E-1	-	1.10E+4	1.04E-1
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Table 3-9

 $\frac{R_{io}, GRASS - GOAT - MILK PATHWAY DOSE FACTORS}{INFANT (mrem/yr per <math>\mu Ci/m^3) \text{ for H-3 and C-14}}{(m^2*mrem/yr per <math>\mu Ci/sec) \text{ for others}}$

Nuclide	Bone	Liver	<u>Thyroid</u>	<u>Kidney</u>	Lung	<u>GI-LLI</u>	T.Body
H-3 C-14 Na-24 P-32	3.23E+6 1.93E+6 1.92E+11	4.86E+3 6.89E+5 1.93E+6 1.13E+10	4.86E+3 6.89E+5 1.93E+6	4.86E+3 6.89E+5 1.93E+6	4.86E+3 6.89E+5 1.93E+6	4.86E+3 6.89E+5 1.93E+6 2.60E+9	4.86E+3 6.89E+5 1.93E+6 7.45E+9
Cr-51	-	-	1.26E+4	2.76E+3	2.46E+4	5.65E+5	1.93E+4
Mn-54 Mn-56 Fe-55 Fe-59 Co-57	1.76E+6 2.93E+6	4.67E+6 3.85E-3 1.13E+6 5.11E+6 1.07E+6	- - - -	1.04E+6 3.31E-3	5.55E+5 1.51E+6	1.72E+6 3.49E-1 1.44E+5 2.44E+6 3.66E+6	1.06E+6 6.64E-4 3.03E+5 2.02E+6 1.75E+6
Co-58 Co-60 Ni-63 Ni-65 Cu-64	- 4.19E+9 4.21E-1	2.92E+6 1.06E+7 2.59E+8 4.76E-2 2.09E+4	- - - -	- - - 3.53E+4	- - - -	7.26E+6 2.52E+7 1.28E+7 3.62E+0 4.29E+5	7.27E+6 2.50E+7 1.45E+8 2.17E-2 9.68E+3
Zn-65 Zn-69 Br-82 Br-83 Br-84	6.66E+8 - - - -	2.28E+9 - - - -	- - - -	1.11E+9 - - - -	- - - -	1.93E+9 8.83E-10 - -	1.05E+9 - 2.33E+7 1.19E-1
Br-85 Rb-86 Rb-88 Rb-89 Sr-89	- - - - 2.65E+10	2.66E+9 - -	- - - -	- - - -	- - - -	6.83E+7 - - 5.44E+8	1.32E+9 - - 7.58E+8
Sr-90 Sr-91 Sr-92 Y-90 Y-91m	2.56E+11 6.17E+5 9.76E+0 8.16E+1	- - - -	- - - -	- - - -	- - - -	3.19E+9 7.31E+5 1.05E+2 1.13E+5	6.51E+10 2.23E+4 3.63E-1 2.18E+0
Y-91 Y-92 Y-93 Zr-95 Zr-97	8.80E+3 6.26E-5 2.70E-1 8.20E+2 4.79E-1	1.99E+2 8.22E-2	- - - -	- - 2.15E+2 8.29E-2	- - - -	6.31E+5 1.20E+0 2.14E+3 9.94E+4 5.24E+3	2.34E+2 1.76E-6 7.36E-3 1.42E+2 3.76E-2
Nb-95 Nb-97 Mo-99 Tc-99m Tc-101	7.12E+4 - - 3.23E+0 -	2.93E+4 - 2.54E+7 6.66E+0	- - - -	2.10E+4 - 3.80E+7 7.16E+1	3.48E+0	2.47E+7 4.44E-7 8.38E+6 1.93E+3	1.69E+4 - 4.96E+6 8.58E+1

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Table 3-9

 $\frac{R_{io}, GRASS - GOAT - MILK PATHWAY DOSE FACTORS}{INFANT (mrem/yr per <math>\mu Ci/m^3)$ for H-3 and C-14 (m² * mrem/yr per $\mu Ci/sec$) for others

Ru-103 1.04E+3 - - 2.17E+3 - 1.27E+4 3.49E+ Ru-105 9.67E-4 - - 7.10E-3 - 3.85E-1 3.25E- Ru-106 2.28E+4 - - 2.70E+4 - 1.73E+5 2.86E+ Rh-103m - - - - - - - - Rh-106 - - - - - - - - Ag-110m 4.63E+7 3.38E+7 - 4.84E+7 - 1.75E+9 2.23E+	4
Ru-105 9.67E-4 - - 7.10E-3 - 3.85E-1 3.25E-1 Ru-106 2.28E+4 - - 2.70E+4 - 1.73E+5 2.86E+1 Rh-103m - - - - - - - Rh-106 - - - - - - -	4
Ru-106 2.28E+4 2.70E+4 - 1.73E+5 2.86E+ Rh-103m	
Rh-103m Rh-106	+3
Ag-110m 4.63E+7 3.38E+7 - 4.84E+7 - 1.75E+9 2.23E+	
11g 110m 1105E 7 5150E 7 1101E 7 1175E 7 2125E	+7
Sb-124 2.51E+7 3.70E+5 6.67E+4 - 1.57E+7 7.75E+7 7.79E+	
Sb-125 1.79E+7 1.74E+5 2.24E+4 - 1.13E+7 2.39E+7 3.68E+	
Te-125m 1.81E+7 6.05E+6 6.08E+6 - 8.62E+6 2.45E+	
Te-127m 5.05E+7 1.68E+7 1.46E+7 1.25E+8 - 2.04E+7 6.12E+	
Te-127 7.80E+2 2.62E+2 6.35E+2 1.91E+3 - 1.63E+4 1.68E+	∟າ
Te-129m 6.71E+7 2.30E+7 2.58E+7 1.68E+8 - 4.01E+7 1.03E+4	
Te-129	' /
Te-131m 4.06E+5 1.63E+5 3.31E+5 1.12E+6 - 2.75E+6 1.34E+	∟ 5
Te-131ii 4.00E+3 1.05E+3 5.51E+3 1.12E+0 - 2.75E+0 1.54E+ Te-131	-3
T 100 0 50F (10FF (10	
Te-132 2.52E+6 1.25E+6 1.85E+6 7.81E+6 - 4.62E+6 1.17E+ I-130 4.32E+6 9.50E+6 1.07E+9 1.04E+7 - 2.04E+6 3.82E+	
I-131 3.26E+9 3.85E+9 1.26E+12 4.50E+9 - 1.38E+8 1.69E+	
I-132	
I-133 4.46E+7 6.49E+7 1.18E+10 7.63E+7 - 1.10E+7 1.90E+	r /
I-134 - 1.21E-9	
I-135 1.45E+5 2.89E+5 2.59E+7 3.23E+5 - 1.05E+5 1.06E+	⊦ 5
Cs-134 1.10E+11 2.04E+11 - 5.25E+10 2.15E+10 5.55E+8 2.06+1	0
Cs-136 5.88E+9 1.73E+10 - 6.90E+9 1.41E+9 2.63E+8 6.45E+	⊦9
Cs-137 1.54E+11 1.81E+11 - 4.86E+10 1.96E+10 5.64E+8 1.28E+	+10
Cs-138	
Ba-139 5.46E-8 3.46E-6 1.58E-	.9
Ba-140 2.89E+7 2.89E+4 - 6.88E+3 1.78E+4 7.10E+6 1.49E+	⊦6
Ba-141	
Ba-142	
La-140 4.84E+0 1.91E+0 2.24E+4 4.91E-	.1
La-142 6.25E-7 -	
Ce-141 5.20E+3 3.17E+3 - 9.78E+2 - 1.64E+6 3.73E+	
Ce-143 4.80E+1 3.18E+4 - 9.26E+0 - 1.86E+5 3.62E+	
Ce-144 2.80E+5 1.14E+5 - 4.62E+4 - 1.60E+7 1.56E+	
Pr-143 1.79E+2 6.71E+1 - 2.50E+1 - 9.47E+4 8.89E+	⊢ 0
Pr-144	
Nd-147 1.06E+2 1.09E+2 - 4.19E+1 - 6.89E+4 6.66E+	
W-187 7.34E+3 5.11E+3 3.00E+5 1.76E+	
Np-239 4.67E+0 3.90E-1 - 7.79E-1 - 1.13E+4 2.21E-	·1

Table 3-10

 $\frac{R_{io},\,GRASS\text{ - COW - MEAT PATHWAY DOSE FACTORS}}{ADULT\,(mrem/yr\,per\,\mu Ci/m^3)\,\,for\,\,H\text{-}3\,\,and\,\,C\text{-}14}\\ (m^2*mrem/yr\,per\,\,\mu Ci/sec)\,\,for\,\,others}$

Nuclide	<u>Bone</u>	Liver	Thyroid	Kidney	Lung	<u>GI-LLI</u>	T.Body
H-3 C-14 Na-24 P-32 Cr-51	3.33E+5 1.84E-3 4.65E+9	3.25E+2 6.66E+4 1.84E-3 2.89E+8	3.25E+2 6.66E+4 1.84E-3 - 4.22E+3	3.25E+2 6.66E+4 1.84E-3 - 1.56E+3	3.25E+2 6.66E+4 1.84E-3 - 9.38E+3	3.25E+2 6.66E+4 1.84E-3 5.23E+8 1.78E+6	3.25E+2 6.66E+4 1.84E-3 1.80E+8 7.07E+3
Mn-54	-	9.15E+6	-	2.72E+6	-	2.80E+7	1.75E+6
Mn-56	- 2.93E+8	- 2.02E+8	-	-	- 1.13E+8	- 1.16E+8	- 4.72E+7
Fe-55 Fe-59	2.93E+8 2.67E+8	6.27E+8	-	-	1.13E+8 1.75E+8	1.10E+8 2.09E+9	4.72E+7 2.40E+8
Co-57	-	5.64E+6	-	-	-	1.43E+8	9.37E+6
Co-58	-	1.83E+7	-	-	-	3.70E+8	4.10E+7
Co-60	-	7.52E+7	-	-	-	1.41E+9	1.66E+8
Ni-63 Ni-65	1.89E+10	1.31E+9	-	-	-	2.73E+8	6.33E+8
Cu-64	-	2.95E-7	-	7.45E-7	-	2.52E-5	1.39E-7
Zn-65	3.56E+8	1.13E+9	-	7.57E+8	-	7.13E+8	5.12E+8
Zn-69	-	-	-	-	-	-	<u>-</u>
Br-82	-	-	-	-	-	1.44E+3	1.26E+3
Br-83 Br-84	_	-	-	-	-	-	-
D1-04	-	-	-	-	-	-	-
Br-85	-	-	-	-	-	-	-
Rb-86	-	4.87E+8	-	-	-	9.60E+7	2.27E+8
Rb-88 Rb-89	_	-	-	-	-	-	-
Sr-89	3.01E+8	-	-	-	-	- 4.84E+7	8.65E+6
51 07	3.01L+0					1.012.7	0.031
Sr-90	1.24E+10	-	-	-	-	3.59E+8	3.05E+9
Sr-91	-	-	-	-	-	1.38E-9	-
Sr-92 Y-90	- 1.07E+2	-	-	-	-	1.13E+6	2.86E+0
Y-91m	-	-	-	-	-	-	-
Y-91	1.13E+6	_	_	_	_	6.24E+8	3.03E+4
Y-92	-	-	-	-	-	-	-
Y-93	-	-	-	-	-	2.08E-7	-
Zr-95	1.88E+6	6.04E + 5	-	9.48E+5	-	1.91E+9	4.09E+5
Zr-97	1.83E-5	3.69E-6	-	5.58E-6	-	1.14E+0	1.69E-6
Nb-95	2.29E+6	1.28E+6	-	1.26E+6	-	7.75E+9	6.86E+5
Nb-97	-	- 1.00E+5	-	- 2.46E±5	-	- 2.52⊞±5	- 2.07E±4
Mo-99 Tc-99m	_	1.09E+5	<u>-</u>	2.46E+5	<u>-</u>	2.52E+5	2.07E+4
Tc-101	-	-	- -	- -	-	-	-
-							

Table 3-10

 $\frac{R_{io},\,GRASS\text{ - }COW\text{ - }MEAT\text{ }PATHWAY\text{ }DOSE\text{ }FACTORS}{ADULT\text{ }(mrem/yr\text{ }per\text{ }\mu\text{Ci/m}^3)\text{ }for\text{ }H\text{-}3\text{ }and\text{ }C\text{-}14}\\ \text{ }(m^2*\text{ }mrem/yr\text{ }per\text{ }\mu\text{Ci/sec})\text{ }for\text{ }others$

Ru-103	Nuclide	Bone	Liver	<u>Thyroid</u>	Kidney	Lung	<u>GI-LLI</u>	T.Body
Ru-106		1.06E+8	-	-	4.03E+8	-	1.23E+10	4.55E+7
Rh-103m			-	-	-	-	-	-
Rh-106 - <td>Ru-106</td> <td>2.80E+9</td> <td>-</td> <td>-</td> <td>5.40E+9</td> <td>-</td> <td>1.81E+11</td> <td>3.54E + 8</td>	Ru-106	2.80E+9	-	-	5.40E+9	-	1.81E+11	3.54E + 8
Ag-110m 6.69E+6 6.19E+6 - 1.22E+7 - 2.52E+9 3.67E+6 Sb-124 1.98E+7 3.74E+5 4.80E+4 - 1.54E+7 5.62E+8 7.85E+6 Sb-125 1.91E+7 2.13E+5 1.94E+4 - 1.47E+7 2.10E+8 4.54E+6 Te-125m 3.59E+8 1.30E+8 1.46E+9 - 1.43E+9 4.81E+7 Te-127m 1.12E+9 3.99E+8 2.85E+8 4.53E+9 - 3.74E+9 1.36E+8 Te-127m 1.14E+9 4.27E+8 3.93E+8 4.77E+9 - 5.76E+9 1.81E+8 Te-129m 1.14E+9 4.27E+8 3.93E+8 4.77E+9 - 5.76E+9 1.81E+8 Te-131m 4.51E+2 2.21E+2 3.50E+2 2.24E+3 - 2.19E+4 1.84E+2 Te-132 1.40E+6 9.07E+5 1.00E+6 8.73E+6 - 4.29E+7 8.51E+5 1.130 2.55E-6 6.94E-6 5.88E-4 1.08E+3 - <t< td=""><td>Rh-103m</td><td>-</td><td>_</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></t<>	Rh-103m	-	_	-	-	-	-	-
Sb-124 1,98E+7 3.74E+5 4.80E+4 - 1.54E+7 5.62E+8 7.85E+6 Sb-125 1,91E+7 2.13E+5 1.94E+4 - 1.47E+7 2.10E+8 4.54E+6 Te-127m 3.59E+8 1.30E+8 1.08E+8 1.46E+9 - 1.43E+9 4.81E+6 Te-127m 1.12E+9 3.99E+8 2.85E+8 4.53E+9 - 2.10E-8 - Te-127m 1.14E+9 4.27E+8 3.93E+8 4.77E+9 - 5.76E+9 1.81E+8 Te-129m 1.14E+9 4.27E+8 3.93E+8 4.77E+9 - 5.76E+9 1.81E+8 Te-131m 4.51E+2 2.21E+2 3.50E+2 2.24E+3 - 2.19E+4 1.84E+2 Te-131 1.40E+6 9.07E+5 1.00E+6 8.73E+6 - 4.29E+7 8.51E+5 1-130 2.35E-6 6.94E-6 5.88E-4 1.08E-5 - 5.98E-6 2.74E-6 1-132 1.0E+3 1.56E+9 - 5.05E+9 2	Rh-106	-	-	-	-	-	-	-
Sb-125 1.91E+7 2.13E+5 1.94E+4 - 1.47E+7 2.10E+8 4.54E+6 Te-125m 3.59E+8 1.30E+8 1.08E+8 1.46E+9 - 1.43E+9 4.81E+7 Te-127m 1.12E+9 3.99E+8 2.85E+8 4.53E+9 - 3.74E+9 1.36E+8 Te-129m - - - 1.09E-9 - 2.10E-8 - Te-129m 1.14E+9 4.27E+8 3.93E+8 4.77E+9 - 5.76E+9 1.81E+8 Te-131m 4.51E+2 2.21E+2 3.50E+2 2.24E+3 - 2.19E+4 1.84E+2 Te-131 - - - - - - - - Te-131 1.08E+6 9.07E+5 1.00E+6 8.73E+6 - 4.29E+7 8.51E+5 I-130 2.35E-6 6.94E-6 5.88E-4 1.08E-5 - 5.98E-6 2.74E-6 I-131 1.08E+7 7.47E-1 1.10E+2 1.30E+0 - 6.72E-1 <td></td> <td></td> <td></td> <td></td> <td>1.22E+7</td> <td></td> <td></td> <td></td>					1.22E+7			
Te-125m 3.59E+8 1.30E+8 1.08E+8 1.46E+9 - 1.43E+9 4.81E+7 Te-127m 1.12E+9 3.99E+8 2.85E+8 4.53E+9 - 3.74E+9 1.36E+8 Te-127m - - - 1.09E-9 - 2.10E-8 - Te-129m - - - - - 5.76E+9 1.81E+8 Te-129m - - - - - - - - - - - - - - 1.81E+8 -					-			
Te-127m 1.12E+9 3.99E+8 2.85E+8 4.53E+9 - 3.74E+9 1.36E+8 Te-127m - - - 1.09E-9 - 2.10E-8 - Te-129m 1.14E+9 4.27E+8 3.93E+8 4.77E+9 - 5.76E+9 1.81E+8 Te-129m -		1.91E+7				1.47E+7		
Te-127	Te-125m	3.59E+8	1.30E+8	1.08E+8	1.46E+9	-	1.43E+9	4.81E+7
Te-129m 1.14E+9 4.27E+8 3.93E+8 4.77E+9 - 5.76E+9 1.81E+8 Te-129 -	Te-127m	1.12E+9	3.99E+8	2.85E+8	4.53E+9	-	3.74E+9	1.36E+8
Te-129 - <td></td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td></td> <td>-</td>		-	-	-		-		-
Te-131m 4.51E+2 2.21E+2 3.50E+2 2.24E+3 - 2.19E+4 1.84E+2 Te-131 -		1.14E+9	4.27E+8	3.93E+8	4.77E+9	-	5.76E+9	1.81E+8
Te-131 - <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td>-</td>		-	-	-	-	-		-
Te-132 1.40E+6 9.07E+5 1.00E+6 8.73E+6 - 4.29E+7 8.51E+5 I-130 2.35E-6 6.94E-6 5.88E-4 1.08E-5 - 5.98E-6 2.74E-6 I-131 1.08E+7 1.54E+7 5.05E+9 2.64E+7 - 4.07E+6 8.83E+6 I-132 - - - - - - - I-133 4.30E-1 7.47E-1 1.10E+2 1.30E+0 - 6.72E-1 2.28E-1 I-134 - - - - - - - I-135 - - - - - - - Cs-134 6.57E+8 1.56E+9 - 5.06E+8 1.68E+8 2.74E+7 1.28E+9 Cs-136 1.18E+7 4.67E+7 - 2.60E+7 3.56E+6 5.30E+6 3.36E+7 Cs-137 8.72E+8 1.19E+9 - 4.05E+8 1.35E+8 2.31E+7 7.81E+8 Ba-139		4.51E+2	2.21E+2	3.50E+2	2.24E+3	-	2.19E+4	1.84E+2
I-130		-	-	-	-	-	-	-
I-131 1.08E+7 1.54E+7 5.05E+9 2.64E+7 - 4.07E+6 8.83E+6 I-132 - </td <td>Te-132</td> <td>1.40E+6</td> <td></td> <td>1.00E+6</td> <td>8.73E+6</td> <td>-</td> <td>4.29E+7</td> <td>8.51E+5</td>	Te-132	1.40E+6		1.00E+6	8.73E+6	-	4.29E+7	8.51E+5
I-132 - <td>I-130</td> <td>2.35E-6</td> <td>6.94E-6</td> <td>5.88E-4</td> <td>1.08E-5</td> <td>-</td> <td>5.98E-6</td> <td>2.74E-6</td>	I-130	2.35E-6	6.94E-6	5.88E-4	1.08E-5	-	5.98E-6	2.74E-6
I-133 4.30E-1 7.47E-1 1.10E+2 1.30E+0 - 6.72E-1 2.28E-1 I-134 - - - - - - - I-135 - - - - - - Cs-134 6.57E+8 1.56E+9 - 5.06E+8 1.68E+8 2.74E+7 1.28E+9 Cs-136 1.18E+7 4.67E+7 - 2.60E+7 3.56E+6 5.30E+6 3.36E+7 Cs-137 8.72E+8 1.19E+9 - 4.05E+8 1.35E+8 2.31E+7 7.81E+8 Cs-138 - - - - - - - - Ba-139 -	I-131	1.08E+7	1.54E+7	5.05E+9	2.64E+7	-	4.07E+6	8.83E+6
I-134 - <td>I-132</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	I-132	-	-	-	-	-	-	-
L-135 - <td>I-133</td> <td>4.30E-1</td> <td>7.47E-1</td> <td>1.10E+2</td> <td>1.30E+0</td> <td>-</td> <td>6.72E-1</td> <td>2.28E-1</td>	I-133	4.30E-1	7.47E-1	1.10E+2	1.30E+0	-	6.72E-1	2.28E-1
Cs-134 6.57E+8 1.56E+9 - 5.06E+8 1.68E+8 2.74E+7 1.28E+9 Cs-136 1.18E+7 4.67E+7 - 2.60E+7 3.56E+6 5.30E+6 3.36E+7 Cs-137 8.72E+8 1.19E+9 - 4.05E+8 1.35E+8 2.31E+7 7.81E+8 Cs-138 - - - - - - - - Ba-139 - <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>		-	-	-	-	-	-	-
Cs-136 1.18E+7 4.67E+7 - 2.60E+7 3.56E+6 5.30E+6 3.36E+7 Cs-137 8.72E+8 1.19E+9 - 4.05E+8 1.35E+8 2.31E+7 7.81E+8 Cs-138 - - - - - - - - Ba-139 -		-	-	-	-	-	-	-
Cs-137 8.72E+8 1.19E+9 - 4.05E+8 1.35E+8 2.31E+7 7.81E+8 Cs-138 -				-				
Cs-138 - <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>				-				
Ba-139 - <td>Cs-137</td> <td>8.72E+8</td> <td>1.19E+9</td> <td>-</td> <td>4.05E+8</td> <td>1.35E+8</td> <td>2.31E+7</td> <td>7.81E+8</td>	Cs-137	8.72E+8	1.19E+9	-	4.05E+8	1.35E+8	2.31E+7	7.81E+8
Ba-140 2.88E+7 3.61E+4 - 1.23E+4 2.07E+4 5.92E+7 1.89E+6 Ba-141 - - - - - - - Ba-142 - - - - - - - La-140 3.60E-2 1.81E-2 - - - - - - La-142 - - - - - - - - - - Ce-141 1.40E+4 9.48E+3 - 4.40E+3 - 3.62E+7 1.08E+3 Ce-143 2.09E-2 1.55E+1 - 6.80E-3 - 5.78E+2 1.71E-3 Ce-144 1.46E+6 6.09E+5 - 3.61E+5 - 4.93E+8 7.83E+4 Pr-143 2.13E+4 8.54E+3 - 4.93E+3 - 9.33E+7 1.06E+3 Pr-144 - - - - - - - - Nd-147 7.08E+3 8.18E+3 - 4.78E+3 - 3.93E+7 4.90E+2		-	-	-	-	-	-	-
Ba-141 - <td></td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>		-	-	-	-	-	-	-
Ba-142 - <td></td> <td>2.88E+7</td> <td>3.61E+4</td> <td>-</td> <td>1.23E+4</td> <td>2.07E+4</td> <td>5.92E+7</td> <td>1.89E+6</td>		2.88E+7	3.61E+4	-	1.23E+4	2.07E+4	5.92E+7	1.89E+6
La-140 3.60E-2 1.81E-2 - - - 1.33E+3 4.79E-3 La-142 - - - - - - - Ce-141 1.40E+4 9.48E+3 - 4.40E+3 - 3.62E+7 1.08E+3 Ce-143 2.09E-2 1.55E+1 - 6.80E-3 - 5.78E+2 1.71E-3 Ce-144 1.46E+6 6.09E+5 - 3.61E+5 - 4.93E+8 7.83E+4 Pr-143 2.13E+4 8.54E+3 - 4.93E+3 - 9.33E+7 1.06E+3 Pr-144 - - - - - - - Nd-147 7.08E+3 8.18E+3 - 4.78E+3 - 3.93E+7 4.90E+2 W-187 2.16E-2 1.81E-2 - - - 5.92E+0 6.32E-3		-	-	-	-	-	-	-
La-142 - <td>Ba-142</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td>	Ba-142	-	-	-	-	-	-	-
Ce-141 1.40E+4 9.48E+3 - 4.40E+3 - 3.62E+7 1.08E+3 Ce-143 2.09E-2 1.55E+1 - 6.80E-3 - 5.78E+2 1.71E-3 Ce-144 1.46E+6 6.09E+5 - 3.61E+5 - 4.93E+8 7.83E+4 Pr-143 2.13E+4 8.54E+3 - 4.93E+3 - 9.33E+7 1.06E+3 Pr-144 - - - - - - - Nd-147 7.08E+3 8.18E+3 - 4.78E+3 - 3.93E+7 4.90E+2 W-187 2.16E-2 1.81E-2 - - - 5.92E+0 6.32E-3	La-140	3.60E-2	1.81E-2	-	-	-	1.33E+3	4.79E-3
Ce-143 2.09E-2 1.55E+1 - 6.80E-3 - 5.78E+2 1.71E-3 Ce-144 1.46E+6 6.09E+5 - 3.61E+5 - 4.93E+8 7.83E+4 Pr-143 2.13E+4 8.54E+3 - 4.93E+3 - 9.33E+7 1.06E+3 Pr-144 - - - - - - - Nd-147 7.08E+3 8.18E+3 - 4.78E+3 - 3.93E+7 4.90E+2 W-187 2.16E-2 1.81E-2 - - 5.92E+0 6.32E-3	La-142	-	-	-	-	-	-	-
Ce-144 1.46E+6 6.09E+5 - 3.61E+5 - 4.93E+8 7.83E+4 Pr-143 2.13E+4 8.54E+3 - 4.93E+3 - 9.33E+7 1.06E+3 Pr-144 - - - - - - - Nd-147 7.08E+3 8.18E+3 - 4.78E+3 - 3.93E+7 4.90E+2 W-187 2.16E-2 1.81E-2 - - 5.92E+0 6.32E-3	Ce-141	1.40E+4	9.48E+3	-	4.40E + 3	_	3.62E+7	1.08E + 3
Pr-143 2.13E+4 8.54E+3 - 4.93E+3 - 9.33E+7 1.06E+3 Pr-144 - - - - - - - Nd-147 7.08E+3 8.18E+3 - 4.78E+3 - 3.93E+7 4.90E+2 W-187 2.16E-2 1.81E-2 - - 5.92E+0 6.32E-3	Ce-143	2.09E-2	1.55E+1	-	6.80E-3	-	5.78E+2	1.71E-3
Pr-144 - - - - - - - - - - - - Nd-147 7.08E+3 8.18E+3 - 4.78E+3 - 3.93E+7 4.90E+2 W-187 2.16E-2 1.81E-2 - - - 5.92E+0 6.32E-3	Ce-144	1.46E+6	6.09E+5	-	3.61E+5	-	4.93E+8	7.83E+4
Nd-147 7.08E+3 8.18E+3 - 4.78E+3 - 3.93E+7 4.90E+2 W-187 2.16E-2 1.81E-2 5.92E+0 6.32E-3	Pr-143	2.13E+4	8.54E+3	-	4.93E+3	-	9.33E+7	1.06E+3
W-187 2.16E-2 1.81E-2 5.92E+0 6.32E-3	Pr-144	-	-	-	-	-	-	-
	Nd-147	7.08E+3	8.18E+3	-	4.78E+3	-	3.93E+7	4.90E+2
Np-239 2.56E-1 2.51E-2 - 7.84E-2 - 5.15E+3 1.39E-2	W-187	2.16E-2	1.81E-2	-	-	-	5.92E+0	6.32E-3
	Np-239	2.56E-1	2.51E-2	-	7.84E-2	-	5.15E+3	1.39E-2

Table 3-10

 $\frac{R_{io},\,GRASS\text{ - }COW\text{ - }MEAT\text{ }PATHWAY\text{ }DOSE\text{ }FACTORS}{TEENAGER\text{ }(mrem/yr\text{ }per\text{ }}\mu\text{Ci/m}^3)\text{ }for\text{ }H\text{-}3\text{ }and\text{ }C\text{-}14}\\ \text{ }(m^2*\text{ }mrem/yr\text{ }per\text{ }}\mu\text{Ci/sec})\text{ }for\text{ }others$

Nuclide	Bone	Liver	Thyroid	Kidney	Lung	<u>GI-LLI</u>	T.Body
H-3	-	1.94E+2	1.94E+2	1.94E+2	1.94E+2	1.94E+2	1.94E+2
C-14	2.81E+5	5.62E+4	5.62E+4	5.62E+4	5.62E+4	5.62E+4	5.62E+4
Na-24	1.47E-3	1.47E-3	1.47E-3	1.47E-3	1.47E-3	1.47E-3	1.47E-3
P-32	3.93E+9	2.44E+8	_	_	_	3.30E+8	1.52E+8
Cr-51	-	-	3.14E+3	1.24E+3	8.07E+3	9.50E+5	5.65E+3
Mn-54		6.98E+6		2.08E+6		1.43E+7	1.38E+6
Mn-56	-	0.98E±0	-	2.08E±0	-	1.43L⊤/	1.36E⊤0
Fe-55	2.38E+8	1.69E+8	- -	-	1.07E+8	7.30E+7	3.93E+7
Fe-59	2.33E+8	4.98E+8	-	-	1.57E+8	1.18E+9	1.92E+8
	2.13E⊤8		-	-	1.3/E⊤8		
Co-57	-	4.53E+6	-	-	-	8.45E+7	7.59E+6
Co-58	-	1.41E+7	-	-	-	1.94E+8	3.25E+7
Co-60	-	5.83E+7	-	-	-	7.60E+8	1.31E+8
Ni-63	1.52E+10	1.07E+9	_	_	_	1.71E+8	5.15E+8
Ni-65	_	_	-	_	_	-	_
Cu-64	-	2.41E-7	-	6.10E-7	-	1.87E-5	1.13E-7
Zn-65	2.50E+8	8.69E+8	_	5.56E+8	_	3.68E+8	4.05E+8
Zn-69	2.502.0	-	_	-	_	-	-
Br-82	_	_	_	_	_	_	9.98E+2
Br-83	_	_	_	_	_	_	J.JGE 2
Br-84	_	_	_	_	_	_	_
D1-0 4	-	-	-	-	-	-	-
Br-85	-	-	-	-	-	-	-
Rb-86	-	4.06E + 8	-	-	-	6.01E+7	1.91E+8
Rb-88	-	-	-	-	-	-	-
Rb-89	-	_	-	-	-	-	-
Sr-89	2.54E+8	-	-	-	-	3.03E+7	7.29E+6
G 00	0.075+0					2.265+0	1.000.0
Sr-90	8.05E+9	-	-	-	-	2.26E+8	1.99E+9
Sr-91	-	-	-	-	-	1.10E-9	-
Sr-92	-	-	-	-	-		-
Y-90	8.98E+1	-	-	-	-	7.40E+5	2.42E+0
Y-91m	-	-	-	-	-	-	-
Y-91	9.56E+5	-	-	-	-	3.92E+8	2.56E+4
Y-92	-	-	-	-	-	-	-
Y-93	-	-	-	-	-	1.69E-7	-
Zr-95	1.51E+6	4.76E+5	-	6.99E+5	-	1.10E+9	3.27E+5
Zr-97	1.53E-5	3.02E-6	-	4.58E-6	-	8.18E-1	1.39E-6
Nb-95	1.79E+6	9.94E+5	_	9.64E+5	_	4.25E+9	5.47E+5
Nb-97	-	-	-	-	-	-	-
Mo-99	-	8.98E+4	_	2.06E+5	_	1.61E+5	1.71E+4
Tc-99m	-	_	_	_	_	-	_
Tc-101	-	-	-	-	-	-	-

Table 3-10

 $\frac{R_{io},\,GRASS\text{ - }COW\text{ - }MEAT\text{ }PATHWAY\text{ }DOSE\text{ }FACTORS}{TEENAGER\text{ }(mrem/yr\text{ }per\text{ }}\mu\text{Ci/m}^3)\text{ }for\text{ }H\text{-}3\text{ }and\text{ }C\text{-}14}\\ \text{ }(m^2*\text{ }mrem/yr\text{ }per\text{ }}\mu\text{Ci/sec})\text{ }for\text{ }others$

Nuclide	Bone	Liver	Thyroid	Kidney	Lung	<u>GI-LLI</u>	T.Body
Ru-103	8.60E+7	_	_	3.03E+8	_	7.18E+9	3.68E+7
Ru-105	0.00E · /	_	_	J.03E · 0	_	7.10E-7	3.00L 1
Ru-106	2.36E+9	_	_	4.55E+9	_	1.13E+11	2.97E+8
Rh-103m	2.30E · 5	_	_	-	_	-	2. ,, 2 , 0
Rh-106	_	_	_	_	_	_	_
Ag-110m	5.06E+6	4.79E+6	-	9.14E+6	-	1.35E+9	2.91E+6
Sb-124	1.62E+7	2.98E + 5	3.67E+4	-	1.41E+7	3.26E + 8	6.31E+6
Sb-125	1.56E+7	1.71E+5	1.49E+4	-	1.37E+7	1.22E+8	3.66E+6
Te-125m	3.03E + 8	1.09E + 8	8.47E+7	-	-	8.94E+8	4.05E+7
Te-127m	9.41E+8	3.34E + 8	2.24E + 8	3.82E+9	-	2.35E+9	1.12E+8
T. 107						1.75E 0	
Te-127	9.58E+8	- 2 56E+9	2 00E+9	- 4.01E+0	-	1.75E-8	1 50E+0
Te-129m	9.58E+8	3.56E+8	3.09E+8	4.01E+9	-	3.60E+9	1.52E+8
Te-129	2.76E+2	1 00E+2	- 2.71E+2	- 1 00E+2	-	- 1 450 + 4	1.50E+2
Te-131m	3.76E+2	1.80E+2	2.71E+2	1.88E+3	-	1.45E+4	1.50E+2
Te-131	1 15E+6	7.26E+5	- 7.66E+5	- - 07E+6	-	- 2.20E+7	- (04E+5
Te-132	1.15E+6	7.26E+5	7.66E+5	6.97E+6	-	2.30E+7	6.84E+5
I-130	1.89E-6	5.48E-6	4.47E-4	8.44E-6	-	4.21E-6	2.19E-6
I-131	8.95E+6	1.25E+7	3.66E+9	2.16E+7	-	2.48E+6	6.73E+6
I-132	- 2.50E-1	- (10E 1	- 0.51E+1	- 1.07E+0	-	- 4 (1E 1	- 1.00E 1
I-133	3.59E-1	6.10E-1	8.51E+1	1.07E+0	-	4.61E-1	1.86E-1
I-134	-	-	-	-	-	-	-
I-135	-	-	-	-	-	-	-
Cs-134	5.23E+8	1.23E+9	-	3.91E+8	1.49E+8	1.53E+7	5.71E+8
Cs-136	9.22E+6	3.63E+7	-	1.97E + 7	3.11E+6	2.92E+6	2.44E+7
Cs-137	7.24E+8	9.63E+8	-	3.28E+8	1.27E+8	1.37E+7	3.36E+8
Cs-138	_	_	_	_	_	_	_
Ba-139	_	_	_	_	_	_	_
Ba-140	2.38E+7	2.91E+4	_	9.88E+3	1.96E+4	3.67E+7	1.53E+6
Ba-141	_	-	_	-	-	-	-
Ba-142	-	-	-	-	-	-	-
I a 140	2.06E.2	1 45E 2				8.35E+2	2 97E 2
La-140	2.96E-2	1.45E-2	-	-	-	0.33E⊤2	3.87E-3
La-142	- 1 10E+1	7 96E+2	-	2 70E+2	-	- 2.25E±7	0.02E+2
Ce-141	1.18E+4	7.86E+3	-	3.70E+3	-	2.25E+7	9.03E+2
Ce-143	1.76E-2	1.28E+1	-	5.74E-3	-	3.85E+2	1.43E-3
Ce-144	1.23E+6	5.08E+5	-	3.04E+5	-	3.09E+8	6.60E+4
Pr-143	1.79E+4	7.15E+3	-	4.16E+3	-	5.90E+7	8.92E+2
Pr-144	-	-	-	-	-	-	-
Nd-147	6.24E+3	6.79E+3	-	3.98E + 3	-	2.45E+7	4.06E+2
W-187	1.81E-2	1.48E-2	-	-	-	3.99E+0	5.17E-3
Np-239	2.23E-1	2.11E-2	-	6.61E-2	-	3.39E+3	1.17E-2
-							

Table 3-10

 $\frac{R_{io},\,GRASS\text{ - COW - MEAT PATHWAY DOSE FACTORS}}{CHILD\,(mrem/yr\,per\,\mu\text{Ci/m}^3)\,\,for\,\,H\text{--}3\,\,and\,\,C\text{--}14}\\ (m^2*mrem/yr\,per\,\,\mu\text{Ci/sec})\,\,for\,\,others}$

Nuclide	Bone	Liver	<u>Thyroid</u>	Kidney	Lung	<u>GI-LLI</u>	T.Body
H-3 C-14 Na-24 P-32	5.29E+5 2.34E-3 7.41E+9	2.34E+2 1.06E+5 2.34E-3 3.47E+8	2.34E+2 1.06E+5 2.34E-3	2.34E+2 1.06E+5 2.34E-3	2.34E+2 1.06E+5 2.34E-3	2.34E+2 1.06E+5 2.34E-3 2.05E+8	2.34E+2 1.06E+5 2.34E-3 2.86E+8
Cr-51	/.41L⊤9 -	3.4/E±8 -	4.89E+3	1.34E+3	8.93E+3	4.67E+5	8.81E+3
Mn-54 Mn-56	-	7.99E+6	-	2.24E+6	-	6.70E+6	2.13E+6
Fe-55	4.57E+8	2.42E+8	-	-	1.37E+8	4.49E+7	7.51E+7
Fe-59	3.78E+8	6.12E+8	-	-	1.77E+8	6.37E+8	3.05E+8
Co-57	-	5.92E+6	-	-	-	4.85E+7	1.20E+7
Co-58	-	1.65E+7	-	-	-	9.60E+7	5.04E+7
Co-60	-	6.93E+7	-	-	-	3.84E + 8	2.04E+8
Ni-63	2.91E+10	1.56E+9	-	-	-	1.05E+8	9.91E+8
Ni-65	-	-	-	-	-	-	-
Cu-64	-	3.24E-7	-	7.82E-7	-	1.52E-5	1.96E-7
Zn-65	3.75E+8	1.00E+9	-	6.30E+8	-	1.76E+8	6.22E+8
Zn-69	-	-	-	-	-	-	-
Br-82	-	-	-	-	-	-	1.56E+3
Br-83	-	-	-	-	-	-	-
Br-84	-	-	-	-	-	-	-
Br-85	-	- 5.76E+0	-	-	-	- 2.715+7	- 2.54E+0
Rb-86	-	5.76E+8	-	-	-	3.71E+7	3.54E+8
Rb-88	-	-	-	-	-	-	-
Rb-89	- 4.92E+9	-	-	-	-	- 1.06E+7	1 20E+7
Sr-89	4.82E+8	-	-	-	-	1.86E+7	1.38E+7
Sr-90	1.04E+10	-	-	-	-	1.40E+8	2.64E+9
Sr-91	-	-	-	-	-	1.01E-9	-
Sr-92	-	-	-	-	-	-	<u>-</u>
Y-90	1.70E+2	-	-	-	-	4.84E+5	4.55E+0
Y-91m	-	-	-	-	-	-	-
Y-91	1.81E+6	-	-	-	-	2.41E+8	4.83E+4
Y-92	-	-	-	-	-	- 1.65E.6	-
Y-93	- 2 (OF) (- 5.00E+5	-	- 0.42E+5	-	1.55E-7	- 5.04E+5
Zr-95	2.68E+6	5.89E+5	-	8.43E+5	-	6.14E+8	5.24E+5
Zr-97	2.84E-5	4.10E-6	-	5.89E-6	-	6.21E-1	2.42E-6
Nb-95	3.09E+6	1.20E+6	-	1.13E+6	-	2.23E+9	8.61E+5
Nb-97	-	1 25E+5	-	- 2.67E+5	-	1.02E+5	- 2.00E+4
Mo-99	-	1.25E+5	-	2.67E+5	-	1.03E+5	3.09E+4
Tc-99m	-	-	-	-	-	-	-
Tc-101	-	-	-	-	-	-	-

Table 3-10

 $\frac{R_{io},\,GRASS\text{ - COW - MEAT PATHWAY DOSE FACTORS}}{CHILD\,(mrem/yr\,per\,\mu\text{Ci/m}^3)\,\,for\,\,H\text{--}3\,\,and\,\,C\text{--}14}\\ (m^2*mrem/yr\,per\,\,\mu\text{Ci/sec})\,\,for\,\,others}$

Nuclide	Bone	Liver	<u>Thyroid</u>	Kidney	Lung	<u>GI-LLI</u>	T.Body
Ru-103 Ru-105	1.56E+8	-	-	3.92E+8	-	4.02E+9	5.98E+7
Ru-105 Ru-106	- 4.44E+9	-	-	- 5.99E+9	-	6.90E+10	5.54E+8
Rh-103m	4.44L⊤9	-	-	3.99E⊤9	-	0.90E±10	3.34E±8
Rh-105111	-	-	-	-	-	-	-
KII-100	_	_	_	_	_	_	_
Ag-110m	8.40E+6	5.67E+6	-	1.06E+7	_	6.75E+8	4.53E+6
Sb-124	2.93E+7	3.80E+5	6.46E+4	-	1.62E+7	1.83E+8	1.03E+7
Sb-125	2.85E+7	2.19E+5	2.64E+4	-	1.59E+7	6.80E+7	5.96E+6
Te-125m	5.69E+8	1.54E+8	1.60E+8	-	-	5.49E+8	7.59E+7
Te-127m	1.77E+9	4.78E+8	4.24E+8	5.06E+9	-	1.44E+9	2.11E+8
T. 107				1 01E 0		1.665.0	
Te-127	1.015+0	- 5.04E+0	- 5.02E+0	1.21E-9	-	1.66E-8	- 2.00E+0
Te-129m	1.81E+9	5.04E+8	5.82E+8	5.30E+9	-	2.20E+9	2.80E+8
Te-129	7.005+2	- 2.42E+2	- 4.00E+2	- 2.24E+2	-	0.025+2	- 2.50E+2
Te-131m	7.00E+2	2.42E+2	4.98E+2	2.34E+3	-	9.82E+3	2.58E+2
Te-131	2.005+6	- 0.27E+5	1 25E+6	- 0.60E+6	-	0.225+6	- 1.10E+6
Te-132	2.09E+6	9.27E+5	1.35E+6	8.60E+6	-	9.33E+6	1.12E+6
I-130	3.39E-6	6.85E-6	7.54E-4	1.02E-5	-	3.20E-6	3.53E-6
I-131	1.66E+7	1.67E+7	5.52E+9	2.74E+7	-	1.49E+6	9.49E+6
I-132	- -	- 0.26E 1	1.525+2	- 1.20E+0	-	- 2.22E 1	- 2.12E-1
I-133	6.68E-1	8.26E-1	1.53E+2	1.38E+0	-	3.33E-1	3.12E-1
I-134	-	-	-	-	-	-	-
I-135	-	-	-	-	-	-	-
Cs-134	9.22E+8	1.51E+9	-	4.69E + 8	1.68E + 8	8.15E+6	3.19E + 8
Cs-136	1.59E+7	4.37E+7	-	2.33E+7	3.47E+6	1.54E+6	2.83E+7
Cs-137	1.33E+9	1.28E+9	-	4.16E+8	1.50E+8	7.99E+6	1.88E+8
Cs-138	_	-	-	-	-	_	-
Ba-139	-	-	-	-	-	_	_
Ba-140	4.39E+7	3.85E+4	-	1.25E+4	2.29E+4	2.22E+7	2.56E+6
Ba-141	-	-	-	-	-	_	-
Ba-142	-	-	-	-	-	-	-
La-140	5.41E-2	1.89E-2	_	_	_	5.27E+2	6.38E-3
La-142	-	-	_	_	_	-	-
Ce-141	2.22E+4	1.11E+4	_	4.84E+3	_	1.38E+7	1.64E+3
Ce-143	3.30E-2	1.79E+1	_	7.51E-3	_	2.62E+2	2.59E-3
Ce-144	2.32E+6	7.26E+5	_	4.02E+5	_	1.89E+8	1.24E+5
Pr-143	3.39E+4	1.02E+4	-	5.51E+3	-	3.66E+7	1.68E+3
Pr-144	_	-	-	-	-	_	
Nd-147	1.17E+4	9.48E+3	-	5.20E+3	-	1.50E+7	7.34E+2
W-187	3.36E-2	1.99E-2	-	-	-	2.79E+0	8.92E-3
Np-239	4.20E-1	3.02E-2	-	8.73E-2	-	2.23E+3	2.12E-2

Table 3-11

 $\frac{R_{io},\,VEGETATION\,PATHWAY\,DOSE\,FACTORS}{ADULT\,(mrem/yr\,per\,\mu Ci/m^3)\,\,for\,\,H\text{--}3\,\,and\,\,C\text{--}14}\\ (m^2*mrem/yr\,per\,\mu Ci/sec)\,\,for\,\,others$

Nuclide	Bone	Liver	Thyroid	Kidney	Lung	GI-LLI	T.Body
H-3 C-14	8.97E+5	2.26E+3 1.79E+5	2.26E+3 1.79E+5	2.26E+3 1.79E+5	2.26E+3 1.79E+5	2.26E+3 1.79E+5	2.26E+3 1.79E+5
Na-24 P-32	2.76E+5 1.40E+9	2.76E+5 8.73E+7	2.76E+5 -	2.76E+5 -	2.76E+5 -	2.76E+5 1.58E+8	2.76E+5 5.42E+7
Cr-51	-	-	2.79E+4	1.03E+4	6.19E+4	1.17E+7	4.66E+4
Mn-54 Mn-56	-	3.11E+8 1.61E+1	-	9.27E+7 2.04E+1	-	9.54E+8 5.13E+2	5.94E+7 2.85E+0
Fe-55	2.09E+8	1.45E+8	- -	2.04L † 1	8.06E+7	8.29E+7	3.37E+7
Fe-59	1.27E+8	2.99E+8	_	_	8.35E+7	9.96E+8	1.14E+8
Co-57	1.2/1.70	1.17E+7	_	_	6.55L+7	2.97E+8	1.95E+7
	-		-	-	-		
Co-58	-	3.09E+7	-	-	-	6.26E+8	6.92E+7
Co-60	-	1.67E+8	-	-	-	3.14E+9	3.69E + 8
Ni-63	1.04E+10	7.21E+8	-	-	-	1.50E+8	3.49E+8
Ni-65	6.15E+1	7.99E+0	-	-	-	2.03E+2	3.65E+0
Cu-64	-	9.27E+3	-	2.34E+4	-	7.90E+5	4.35E+3
Zn-65	3.17E+8	1.01E+9	-	6.75E+8	-	6.36E+8	4.56E+8
Zn-69	8.75E-6	1.67E-5	-	1.09E-5	-	2.51E-6	1.16E-6
Br-82	-	-	-	-	-	1.73E+6	1.51E+6
Br-83	-	-	-	-	-	4.63E+0	3.21E+0
Br-84	-	-	-	-	-	-	-
Br-85	-	-	-	-	-	-	-
Rb-86	-	2.19E+8	-	-	-	4.32E+7	1.02E+8
Rb-88	-	-	-	-	-	-	-
Rb-89	-	-	-	-	-	-	-
Sr-89	9.96E+9	-	-	-	-	1.60E+9	2.86E+8
Sr-90	6.05E+11	-	-	-	-	1.75E+10	1.48E+11
Sr-91	3.20E+5	-	-	-	-	1.52E+6	1.29E+4
Sr-92	4.27E+2	-	-	-	-	8.46E+3	1.85E+1
Y-90	1.33E+4	-	-	-	-	1.41E+8	3.56E+2
Y-91m	5.83E-9	-	-	-	-	1.71E-8	-
Y-91	5.13E+6	-	-	-	-	2.82E+9	1.37E+5
Y-92	9.01E-1	-	-	-	-	1.58E+4	2.63E-2
Y-93	1.74E+2	-	-	-	-	5.52E+6	4.80E+0
Zr-95	1.19E+6	3.81E+5	-	5.97E+5	-	1.21E+9	2.58E+5
Zr-97	3.33E+2	6.73E+1	-	1.02E+2	-	2.08E+7	3.08E+1
Nb-95	1.42E+5	7.91E+4	-	7.81E+4	-	4.80E+8	4.25E+4
Nb-97	2.90E-6	7.34E-7	-	8.56E-7	-	2.71E-3	2.68E-7
Mo-99	-	6.25E+6	-	1.41E+7	-	1.45E+7	1.19E+6
Tc-99m	3.06E+0	8.66E+0	-	1.32E+2	4.24E+0	5.12E+3	1.10E+2
Tc-101	-	-	-	-	-	-	-

Table 3-11

 $\frac{R_{io},\,VEGETATION\,PATHWAY\,DOSE\,FACTORS}{ADULT\,(mrem/yr\,per\,\mu Ci/m^3)\,\,for\,\,H\text{--}3\,\,and\,\,C\text{--}14}\\ (m^2*mrem/yr\,per\,\mu Ci/sec)\,\,for\,\,others$

Nuclide	Bone	Liver	<u>Thyroid</u>	<u>Kidney</u>	Lung	<u>GI-LLI</u>	T.Body
Ru-103 Ru-105 Ru-106 Rh-103m	4.80E+6 5.39E+1 1.93E+8	- - -	- - -	1.83E+7 6.96E+2 3.72E+8	- - -	5.61E+8 3.30E+4 1.25E+10	2.07E+6 2.13E+1 2.44E+7
Rh-106	-	-	-	-	-	-	-
Ag-110m Sb-124 Sb-125 Te-125m Te-127m	1.06E+7 1.04E+8 1.36E+8 9.66E+7 3.49E+8	9.76E+6 1.96E+6 1.52E+6 3.50E+7 1.25E+8	2.52E+5 1.39E+5 2.90E+7 8.92E+7	1.92E+7 - 3.93E+8 1.42E+9	8.08E+7 1.05E+8	3.98E+9 2.95E+9 1.50E+9 3.86E+8 1.17E+9	5.80E+6 4.11E+7 3.25E+7 1.29E+7 4.26E+7
Te-127 Te-129m Te-129 Te-131m Te-131	5.76E+3 2.55E+8 6.65E-4 9.12E+5	2.07E+3 9.50E+7 2.50E-4 4.46E+5	4.27E+3 8.75E+7 5.10E-4 7.06E+5	2.35E+4 1.06E+9 2.79E-3 4.52E+6	- - -	4.54E+5 1.28E+9 5.02E-4 4.43E+7	1.25E+3 4.03E+7 1.62E-4 3.72E+5
Te-131 Te-132 I-130 I-131 I-132 I-133	4.29E+6 3.96E+5 8.09E+7 5.74E+1 2.12E+6	2.77E+6 1.17E+6 1.16E+8 1.54E+2 3.69E+6	3.06E+6 9.90E+7 3.79E+10 5.38E+3 5.42E+8	2.67E+7 1.82E+6 1.98E+8 2.45E+2 6.44E+6	- - - -	1.31E+8 1.01E+6 3.05E+7 2.89E+1 3.31E+6	2.60E+6 4.61E+5 6.63E+7 5.38E+1 1.12E+6
I-134 I-135 Cs-134 Cs-136 Cs-137	1.06E-4 4.08E+4 4.66E+9 4.20E+7 6.36E+9	2.88E-4 1.07E+5 1.11E+10 1.66E+8 8.70E+9	5.00E-3 7.04E+6 - -	4.59E-4 1.71E+5 3.59E+9 9.24E+7 2.95E+9	1.19E+9 1.27E+7 9.81E+8	2.51E-7 1.21E+5 1.94E+8 1.89E+7 1.68E+8	1.03E-4 3.94E+4 9.07E+9 1.19E+8 5.70E+9
Cs-138 Ba-139 Ba-140 Ba-141 Ba-142	2.95E-2 1.29E+8 -	2.10E-5 1.62E+5	- - - -	1.96E-5 5.49E+4 -	1.19E-5 9.25E+4 -	5.23E-2 2.65E+8	8.64E-4 8.43E+6
La-140 La-142 Ce-141 Ce-143 Ce-144	1.97E+3 1.40E-4 1.96E+5 1.00E+3 3.29E+7	9.92E+2 6.35E-5 1.33E+5 7.42E+5 1.38E+7	- - - -	6.17E+4 3.26E+2 8.16E+6	- - - -	7.28E+7 4.64E-1 5.08E+8 2.77E+7 1.11E+10	2.62E+2 1.58E-5 1.51E+4 8.21E+1 1.77E+6
Pr-143 Pr-144 Nd-147 W-187 Np-239	6.34E+4 3.34E+4 3.82E+4 1.42E+3	2.54E+4 3.86E+4 3.19E+4 1.40E+2	- - - -	1.47E+4 - 2.25E+4 - 4.37E+2	- - - -	2.78E+8 - 1.85E+8 1.05E+7 2.87E+7	3.14E+3 2.31E+3 1.12E+4 7.72E+1

Table 3-11

 $\frac{R_{io}\text{, VEGETATION PATHWAY DOSE FACTORS}}{\text{TEENAGER (mrem/yr per }\mu\text{Ci/m}^3\text{) for H-3 and C-14}}\\ \text{(m}^2*\text{ mrem/yr per }\mu\text{Ci/sec) for others}$

Nuclide	Bone	Liver	Thyroid	Kidney	Lung	<u>GI-LLI</u>	T.Body
H-3	_	2.59E+3	2.59E+3	2.59E+3	2.59E+3	2.59E+3	2.59E+3
C-14	1.45E+6	2.91E+5	2.91E+5	2.91E+5	2.91E+5	2.91E+5	2.91E+5
Na-24	2.45E+5	2.45E+5	2.45E+5	2.45E+5	2.45E+5	2.45E+5	2.45E+5
P-32	1.61E+9	9.96E+7	2.43L+3 -	2.43E+3	2. 4 3 <u>L</u> +3	1.35E+8	6.23E+7
Cr-51	1.01E+9	9.90E+7	3.44E+4	1.36E+4	8.85E+4	1.04E+7	6.20E+4
C1-31	-	-	J.44L+4	1.50E+4	0.03E+4	1.04L+/	0.20E+4
Mn-54	-	4.52E+8	-	1.35E+8	-	9.27E+8	8.97E+7
Mn-56	-	1.45E+1	-	1.83E+1	-	9.54E+2	2.58E+0
Fe-55	3.25E+8	2.31E+8	-	-	1.46E+8	9.98E+7	5.38E+7
Fe-59	1.81E+8	4.22E+8	_	-	1.33E+8	9.98E+8	1.63E+8
Co-57	-	1.79E+7	-	-	-	3.34E+8	3.00E+7
Co-58		4.38E+7	_			6.04E+8	1.01E+8
Co-60	_	2.49E+8	_	_	_	3.24E+9	5.60E+8
Ni-63	1.61E+10	2.49E+8 1.13E+9	-	-	-	1.81E+8	5.45E+8
			-	-	-		
Ni-65	5.73E+1	7.32E+0	-	- 2.12E+4	-	3.97E+2	3.33E+0
Cu-64	-	8.40E+3	-	2.12E+4	-	6.51E+5	3.95E+3
Zn-65	4.24E+8	1.47E+9	-	9.41E+8	-	6.23E+8	6.86E+8
Zn-69	8.19E-6	1.56E-5	_	1.02E-5	_	2.88E-5	1.09E-6
Br-82	_	-	_	_	_	_	1.33E+6
Br-83	_	_	_	_	_	_	3.01E+0
Br-84	_	-	_	-	_	-	-
Br-85	-	-	-	-	-	-	-
Rb-86	-	2.73E+8	-	-	-	4.05E+7	1.28E+8
Rb-88	-	-	-	-	-	-	-
Rb-89	-	-	-	-	-	-	-
Sr-89	1.51E+10	-	-	-	-	1.80E+9	4.33E+8
Sr-90	7.51E+11	_	_	_	_	2.11E+10	1.85E+11
Sr-91	2.99E+5	_	_	_	_	1.36E+6	1.19E+4
Sr-92	3.97E+2	_	_	_	_	1.01E+4	1.69E+1
Y-90	1.24E+4	_	_	_	_	1.02E+8	3.34E+2
Y-91m	5.43E-9	_	_	_	_	2.56E-7	J.J-IL Z
1-71111	3. 4 3L-7	_	_	_	_	2.30L-7	_
Y-91	7.87E+6	-	-	-	-	3.23E+9	2.11E+5
Y-92	8.47E-1	-	-	-	-	2.32E+4	2.45E-2
Y-93	1.63E+2	-	-	-	-	4.98E+6	4.47E+0
Zr-95	1.74E+6	5.49E+5	_	8.07E + 5	_	1.27E+9	3.78E + 5
Zr-97	3.09E+2	6.11E+1	-	9.26E+1	-	1.65E+7	2.81E+1
Nb-95	1.92E+5	1.06E+5		1.03E+5		4.55E+8	5.86E+4
Nb-93 Nb-97	1.92E∓3 2.69E-6	1.00E±3 6.67E-7	-	7.80E-7	-	4.55E±8 1.59E-2	3.80E∓4 2.44E-7
Mo-97 Mo-99	2.09E-0		-		-		2.44E-7 1.09E+6
	- 2.70E±0	5.74E+6	-	1.31E+7	- 4.10E±0	1.03E+7	
Tc-99m	2.70E+0	7.54E+0	-	1.12E+2	4.19E+0	4.95E+3	9.77E+1
Tc-101	-	-	-	-	-	-	-

 $\label{eq:control_control_control} \frac{R_{io}\text{, VEGETATION PATHWAY DOSE FACTORS}}{\text{TEENAGER (mrem/yr per $\mu\text{Ci/m}^3$) for H-3 and C-14}} \\ \text{(m²* mrem/yr per $\mu\text{Ci/sec}$) for others}$

<u>Nuclide</u>	Bone	Liver	<u>Thyroid</u>	Kidney	Lung	<u>GI-LLI</u>	T.Body
Ru-103	6.87E+6	-	-	2.42E+7	-	5.74E+8	2.94E+6
Ru-105	5.00E+1	-	-	6.31E+2	-	4.04E+4	1.94E+1
Ru-106	3.09E+8	-	-	5.97E+8	-	1.48E+10	3.90E+7
Rh-103m	-	-	-	-	-	-	-
Rh-106	-	-	-	-	-	-	-
Ag-110m	1.52E+7	1.44E+7	-	2.74E+7	-	4.04E+9	8.74E+6
Sb-124	1.55E+8	2.85E+6	3.51E+5	-	1.35E+8	3.11E+9	6.03E+7
Sb-125	2.14E+8	2.34E+6	2.04E+5	-	1.88E+8	1.66E+9	5.00E+7
Te-125m	1.48E+8	5.34E+7	4.14E+7	-	-	4.37E+8	1.98E+7
Te-127m	5.51E+8	1.96E+8	1.31E+8	2.24E+9	-	1.37E+9	6.56E+7
Te-127	5.43E+3	1.92E+3	3.74E+3	2.20E+4	-	4.19E+5	1.17E+3
Te-129m	3.67E + 8	1.36E+8	1.18E+8	1.54E+9	-	1.38E+9	5.81E+7
Te-129	6.22E-4	2.32E-4	4.45E-4	2.61E-3	-	3.40E-3	1.51E-4
Te-131m	8.44E+5	4.05E+5	6.09E + 5	4.22E+6	-	3.25E+7	3.38E+5
Te-131	-	-	-	-	-	_	-
Te-132	3.90E+6	2.47E+6	2.60E+6	2.37E+7	-	7.82E+7	2.32E+6
I-130	3.54E+5	1.02E+6	8.35E+7	1.58E+6	-	7.87E+5	4.09E+5
I-131	7.70E+7	1.08E+8	3.14E+10	1.85E+8	-	2.13E+7	5.79E+7
I-132	5.18E+1	1.36E+2	4.57E+3	2.14E+2	-	5.91E+1	4.87E+1
I-133	1.97E+6	3.34E+6	4.66E+8	5.86E+6	-	2.53E+6	1.02E+6
I-134	9.59E-5	2.54E-4	4.24E-3	4.01E-4	-	3.35E-6	9.13E-5
I-135	3.68E+4	9.48E+4	6.10E+6	1.50E+5	-	1.05E+5	3.52E+4
Cs-134	7.09E+9	1.67E+10	-	5.30E+9	2.02E+9	2.08E + 8	7.74E+9
Cs-136	4.29E+7	1.69E+8	-	9.19E+7	1.45E+7	1.36E+7	1.13E+8
Cs-137	1.01E+10	1.35E+10	-	4.59E+9	1.78E+9	1.92E+8	4.69E+9
Cs-138	-	-	-	-	-	-	-
Ba-139	2.77E-2	1.95E-5	-	1.84E-5	1.34E-5	2.47E-1	8.08E-4
Ba-140	1.38E+8	1.69E+5	-	5.75E+4	1.14E+5	2.13E+8	8.91E+6
Ba-141	-	-	-	-	-	-	-
Ba-142	-	-	-	-	-	-	-
La-140	1.80E+3	8.84E+2	-	-	-	5.08E+7	2.35E+2
La-142	1.28E-4	5.69E-5	-	-	-	1.73E+0	1.42E-5
Ce-141	2.82E+5	1.88E+5	-	8.86E+4	-	5.38E+8	2.16E+4
Ce-143	9.37E+2	6.82E+5	-	3.06E+2	-	2.05E+7	7.62E+1
Ce-144	5.27E+7	2.18E+7	-	1.30E+7	-	1.33E+10	2.83E+6
Pr-143	7.12E+4	2.84E+4	-	1.65E+4	-	2.34E+8	3.55E+3
Pr-144	-	-	-	-	-	_	-
Nd-147	3.63E+4	3.94E+4	-	2.32E+4	-	1.42E+8	2.36E+3
W-187	3.55E+4	2.90E+4	-	-	-	7.84E+6	1.02E+4
Np-239	1.38E+3	1.30E+2	-	4.09E+2	-	2.10E+7	7.24E+1

Table 3-11

 $\frac{R_{io},\,VEGETATION\,PATHWAY\,DOSE\,FACTORS}{CHILD\,(mrem/yr\,per\,\mu Ci/m^3)\,\,for\,\,H\text{--}3\,\,and\,\,C\text{--}14}{(m^2*mrem/yr\,per\,\mu Ci/sec)\,\,for\,\,others}$

Nuclide	Bone	Liver	Thyroid	Kidney	Lung	<u>GI-LLI</u>	T.Body
H-3 C-14 Na-24	3.50E+6 3.83E+5	4.01E+3 7.01E+5 3.83E+5	4.01E+3 7.01E+5 3.83E+5	4.01E+3 7.01E+5 3.83E+5	4.01E+3 7.01E+5 3.83E+5	4.01E+3 7.01E+5 3.83E+5	4.01E+3 7.01E+5 3.83E+5
P-32 Cr-51	3.37E+9	1.58E+8 -	6.54E+4	1.79E+4	1.19E+5	9.30E+7 6.25E+6	1.30E+8 1.18E+5
Mn-54 Mn-56 Fe-55	- - 8.00E+8	6.61E+8 1.90E+1 4.24E+8	- -	1.85E+8 2.29E+1	- 2.40E+8	5.55E+8 2.75E+3 7.86E+7	1.76E+8 4.28E+0 1.31E+8
Fe-59 Co-57	4.01E+8	6.49E+8 2.99E+7	- - -	- - -	1.88E+8	6.76E+8 2.45E+8	3.23E+8 6.04E+7
Co-58	-	6.47E+7	-	-	-	3.77E+8	1.98E+8
Co-60 Ni-63	3.95E+10	3.78E+8 2.11E+9	-	-	-	2.10E+9 1.42E+8	1.12E+9 1.34E+9
Ni-65 Cu-64	1.05E+2 -	9.89E+0 1.11E+4	-	2.68E+4	-	1.21E+3 5.20E+5	5.77E+0 6.69E+3
Zn-65 Zn-69	8.12E+8 1.51E-5	2.16E+9 2.18E-5	- -	1.36E+9 1.32E-5	- -	3.80E+8 1.38E-3	1.35E+9 2.02E-6
Br-82 Br-83 Br-84	-	-	-	-	-	-	2.04E+6 5.55E+0
Br-85	- -	-	- -	- -	- -	- -	- -
Rb-86 Rb-88	-	4.52E+8 -	- -	- -	- -	2.91E+7 -	2.78E+8
Rb-89 Sr-89	3.59E+10	-	-	-	-	1.39E+9	1.03E+9
Sr-90 Sr-91	1.24E+12 5.50E+5	-	- -	- -	- -	1.67E+10 1.21E+6	3.15E+11 2.08E+4
Sr-92 Y-90	7.28E+2 2.30E+4	-	- -	- -	- -	1.38E+4 6.56E+7	2.92E+1 6.17E+2
Y-91m	9.94E-9	-	-	-	-	1.95E-5	- 5.01E+5
Y-91 Y-92 Y-93	1.87E+7 1.56E+0 3.01E+2	- - -	- - -	- - -	- - -	2.49E+9 4.51E+4 4.48E+6	5.01E+5 4.46E-2 8.25E+0
Zr-95 Zr-97	3.90E+6 5.64E+2	8.58E+5 8.15E+1	- -	1.23E+6 1.17E+2	- -	8.95E+8 1.23E+7	7.64E+5 4.81E+1
Nb-95 Nb-97	4.10E+5 4.90E-6	1.59E+5 8.85E-7	-	1.50E+5 9.82E-7	- -	2.95E+8 2.73E-1	1.14E+5 4.13E-7
Mo-99 Tc-99m	- 4.65E+0	7.83E+6 9.12E+0	-	1.67E+7 1.33E+2	- 4.63E+0	6.48E+6 5.19E+3	1.94E+6 1.51E+2
Tc-101	-	-	-	-	-	-	-

Table 3-11

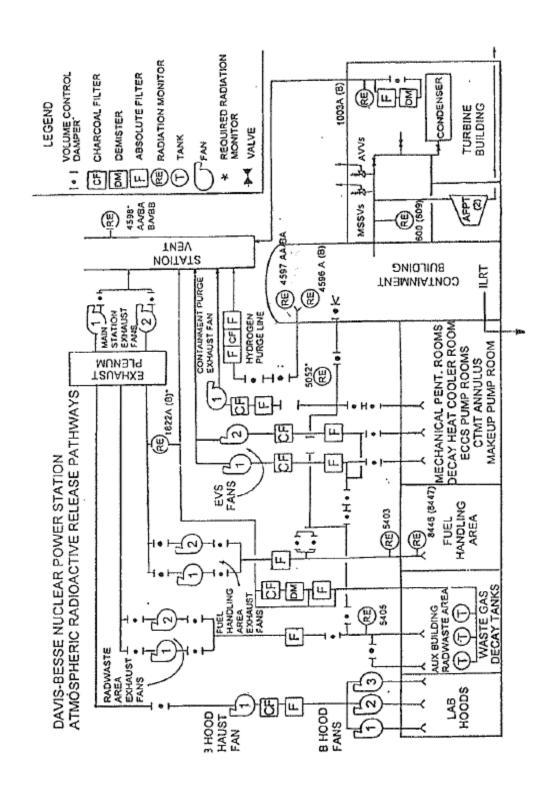
 $\frac{R_{io},\,VEGETATION\,PATHWAY\,DOSE\,FACTORS}{CHILD\,(mrem/yr\,per\,\mu Ci/m^3)\,\,for\,\,H\text{--}3\,\,and\,\,C\text{--}14}{(m^2*mrem/yr\,per\,\mu Ci/sec)\,\,for\,\,others}$

Nuclide	Bone	Liver	Thyroid	Kidney	Lung	GI-LLI	T.Body
Ru-103	1.55E+7	-	-	3.89E+7	-	3.99E+8	5.94E+6
Ru-105	9.17E+1	_	_	8.06E+2	_	5.98E+4	3.33E+1
Ru-106	7.45E+8	_	_	1.01E+9	_	1.16E+10	9.30E+7
Rh-103m	_	_	_	_	_	_	_
Rh-106	_	_	_	_	_	_	_
141 100							
Ag-110m	3.22E+7	2.17E+7	-	4.05E+7	-	2.58E+9	1.74E+7
Sb-124	3.52E+8	4.57E+6	7.78E+5	-	1.96E+8	2.20E+9	1.23E+8
Sb-125	4.99E+8	3.85E+6	4.62E+5	-	2.78E + 8	1.19E+9	1.05E+8
Te-125m	3.51E+8	9.50E+7	9.84E+7	-	-	3.38E+8	4.67E+7
Te-127m	1.32E+9	3.56E+8	3.16E+8	3.77E+9	-	1.07E+9	1.57E+8
Te-127	1.00E+4	2.70E+3	6.93E + 3	2.85E+4	-	3.91E+5	2.15E+3
Te-129m	8.54E+8	2.39E + 8	2.75E + 8	2.51E+9	-	1.04E+9	1.33E + 8
Te-129	1.15E-3	3.22E-4	8.22E-4	3.37E-3	-	7.17E-2	2.74E-4
Te-131m	1.54E+6	5.33E+5	1.10E+6	5.16E+6	-	2.16E+7	5.68E + 5
Te-131	-	-	-	-	-	-	-
T- 122	6.000-16	2.005+6	4.50E+6	2.070+7		2.11E+7	2.720-6
Te-132	6.98E+6	3.09E+6	4.50E+6	2.87E+7	-	3.11E+7	3.73E+6
I-130	6.21E+5	1.26E+6	1.38E+8	1.88E+6	-	5.87E+5	6.47E+5
I-131	1.43E+8	1.44E+8	4.76E+10	2.36E+8	-	1.28E+7	8.18E+7
I-132	9.20E+1	1.69E+2	7.84E+3	2.59E+2	-	1.99E+2	7.77E+1
I-133	3.59E+6	4.44E+6	8.25E+8	7.40E+6	-	1.79E+6	1.68E+6
I-134	1.70E-4	3.16E-4	7.28E-3	4.84E-4	_	2.10E-4	1.46E-4
I-135	6.54E+4	1.18E+5	1.04E+7	1.81E+5	_	8.98E+4	5.57E+4
Cs-134	1.60E+10	2.63E+10	-	8.14E+9	2.92E+9	1.42E+8	5.54E+9
Cs-136	8.06E+7	2.22E+8	_	1.18E+8	1.76E+7	7.79E+6	1.43E+8
Cs-137	2.39E+10	2.29E+10	_	7.46E+9	2.68E+9	1.43E+8	3.38E+9
C5 157	2.37E+10	2.271.10		7.10L+7	2.001	1.13L+0	3.30E+7
Cs-138	-	-	-	-	-	-	-
Ba-139	5.11E-2	2.73E-5	-	2.38E-5	1.61E-5	2.95E+0	1.48E-3
Ba-140	2.77E + 8	2.43E+5	-	7.90E+4	1.45E+5	1.40E+8	1.62E+7
Ba-141	-	-	-	-	-	-	-
Ba-142	-	-	-	-	-	-	-
La-140	3.23E+3	1.13E+3				3.15E+7	3.81E+2
La-140 La-142	2.32E-4	7.40E-5	-	-	-	1.47E+1	2.32E-5
Ce-141	1.23E+5	6.14E+4	-	2.69E+4	-	7.66E+7	9.12E+3
Ce-141 Ce-143			-		-		
Ce-143 Ce-144	1.73E+3	9.36E+5	-	3.93E+2	-	1.37E+7	1.36E+2
CC-144	1.27E+8	3.98E+7	-	2.21E+7	-	1.04E+10	6.78E+6
Pr-143	1.48E+5	4.46E+4	-	2.41E+4	-	1.60E+8	7.37E+3
Pr-144	-	-	-	-	-	-	-
Nd-147	7.16E+4	5.80E+4	-	3.18E+4	-	9.18E+7	4.49E+3
W-187	6.47E+4	3.83E+4	-	-	-	5.38E+6	1.72E+4
Np-239	2.55E+3	1.83E+2	-	5.30E+2	-	1.36E+7	1.29E+2

 $\frac{\text{Table 3-12}}{\text{R}_{\text{io}}, \text{ GROUND PLANE PATHWAY DOSE FACTORS}} \\ \text{(m}^2*\text{mrem/yr per } \mu\text{Ci/sec)}$

		J 1 1	
<u>Nuclide</u>	Any Organ	<u>Nuclide</u>	Any Organ
_		Rh-103m	_
C-14	_	Rh-106	_
Na-24	1.21E+7	Ag-110m	3.47E+9
P-32	1.21L+/	Te-125m	1.55E+6
Cr-51	4.68E+6	Te-127m	9.17E+4
CI-31	4.00L±0	16-12/111	9.17ET4
Mn-54	1.34E+9	Te-127	3.00E+3
Mn-56	9.05E+5	Te-129m	2.00E+7
Fe-55	-	Te-129	2.60E+4
Fe-59	2.75E+8	Te-131m	8.03E+6
Co-58	3.82E+8	Te-131	2.93E+4
Co-60	2.16E+10	Te-132	4.22E+6
Ni-63	-	I-130	5.53E+6
Ni-65	2.97E+5	I-131	1.72E+7
Cu-64	6.09E+5	I-132	1.24E+6
Zn-65	7.45E+8	I-133	2.47E+6
**		I-134	4.49E+5
Zn-69	_	I-135	2.56E+6
Br-83	4.89E+3	Cs-134	6.75E+9
Br-84	2.03E+5	Cs-136	1.49E+8
Br-85	2.03L+3	Cs-137	1.04E+10
Rb-86	8.98E+6	CS-137	1.041.10
K0-00	6.98E+0	Cs-138	3.59E+5
Rb-88	3.29E+4	Ba-139	1.06E+5
Rb-89	1.21E+5	Ba-140	2.05E+7
Sr-89	2.16E+4	Ba-141	2.03E+7 4.18E+4
Sr-89 Sr-90	2.10E+4	Ba-141 Ba-142	4.18E+4 4.49E+4
	2.19E+6	Da-142	4.49L⊤4
Sr-91	2.19E+0	1 - 140	1.015+7
g., 02	7.775+5	La-140	1.91E+7
Sr-92	7.77E+5	La-142	7.36E+5
Y-90	4.48E+3	Ce-141	1.36E+7
Y-91m	1.01E+5	Ce-143	2.32E+6
Y-91	1.08E+6	Ce-144	6.95E+7
Y-92	1.80E+5	D 110	
		Pr-143	-
Y-93	1.85E+5	Pr-144	1.83E+3
Zr-95	2.48E+8	Nd-147	8.40E+6
Zr-97	2.94E+6	W-187	2.36E+6
Nb-95	1.36E+8	Np-239	1.71E+6
Mo-99	4.05E+6		
Tc-99m	1.83E+5		
Tc-101	2.04E+4		
Ru-103	1.09E+8		
Ru-105	6.36E+5		
Ru-106	4.21E+8		

Figure 3-1
Gaseous Radioactive Effluent Monitoring and Ventilation Systems Diagram



4.0 <u>SPECIAL DOSE ANALYSES</u>

4.1 DOSES TO THE PUBLIC DUE TO ACTIVITIES INSIDE THE UNRESTRICTED AREA BOUNDARY

In accordance with Section 7.2, the Radioactive Effluent Release Report shall include an assessment of radiation doses from radioactive liquid and gaseous effluents to MEMBERS OF THE PUBLIC due to their activities inside the UNRESTRICTED AREA BOUNDARY.

In special instances MEMBERS OF THE PUBLIC are permitted access to the radiologically restricted area within the Davis-Besse station. Tours for the public are conducted with the assurance that no individual will receive an appreciable dose (i.e., small fraction of the 40 CFR 190 dose standards).

The Wellness Center, located inside the DBNPS Controlled Area and therefore within the UNRESTRICTED AREA BOUNDARY, is also accessible to MEMBERS OF THE PUBLIC. Considering the frequency and duration of visits, the resultant dose would be a fraction of the calculated maximum UNRESTRICTED AREA BOUNDARY unrestricted area dose. The dose from airborne effluents and the direct "shine" from the Independent Spent Fuel Storage Installation (ISFSI) and the Old Steam Generator Storage Facility (OSGSF) are considered. The direct "shine" from normal Plant operation and the OSGSF is negligible. This combination is considered the controlling factor when evaluating doses to MEMBERS OF THE PUBLIC from activities inside the UNRESTRICTED AREA BOUNDARY.

For purposes of assessing the dose to MEMBERS OF THE PUBLIC in accordance with Technical Specification 5.6.2 and ODCM Section 7.2, the following exposure assumptions may be used:

- Exposure time for maximum exposed visitor user of the Wellness Center of 250 hours (1 h/day, 5 day/wk, 50 wk/yr).*
- For noble gas direct exposure, default use of the maximum UNRESTRICTED AREA BOUNDARY dispersion from table 3-6.
- For Inhalation Pathway, default use of the maximum UNRESTRICTED AREA BOUNDARY dispersion from Table 3-6.
- For Direct "Shine" from the ISFSI, default use of the maximum dose rate for a completed (full) ISFSI, and a distance of 950 feet.

Additional locations within the Unrestricted Area boundary with periodic public access include the pavilion and associated pond area and the Training Center pond. Considering the assumptions above for the Wellness Center, any potential doses to Members of the public from activities at the pavilion and associated pond will be less than those assessed for the Wellness Center. The assumed exposure time of 67 h/y for activities at the pavilion and onsite fishing is a fraction of the 250 h/y assumed for the Wellness Center. The pavilion and associated pond area are located in the southwest sector relative to the reactor, and this is not a prevailing wind direction. Therefore, the dispersion factor will be lower for the pavilion area than for the Wellness Center.

^{*} Based on a maximum conservative estimate.

Extrapolating from historical meteorological data*, the annual average dispersion (considered ground level) for the Wellness Center, is approximately 2E-05 sec/m³. The Wellness Center is controlling and poses the highest potential dose to Members of the Public from activities inside the Unrestricted Area boundary from a dose modeling standpoint.

For purposes of evaluating any direct exposure component, the Wellness Center is closer to the Borated Water Storage Tank and the ISFSI than are the pavilion and associated pond area or the Training Center pond. The evaluation of the direct exposure component at the Wellness Center remains conservative. The Pavilion and associated pond area and the Training Center Pond are located closer to the OSGSF than is the Wellness Center, however, direct exposure at these locations is still considered negligible.

The equations in Section 4.2 may be used for calculating the potential dose to a MEMBER OF THE PUBLIC for activities inside the UNRESTRICTED AREA BOUNDARY. Based on these assumptions, this dose would be at least a factor of 35 less than the maximum UNRESTRICTED AREA BOUNDARY air dose as calculated in Section 3.7.

Public access is periodically allowed to areas on-site for the purposes of recreational activities. During company sponsored events, Members of the Public may be allowed to fish at the Training Center pond. However, since the pond communicates with a release path of potential liquid effluents from the plant, the potential dose to individuals during these activities has been evaluated. Fishing is only allowed under a "catch-and-release" program; therefore, the fish pathway is not considered applicable. For the Training Center pond, releases via the Storm Sewer Drains could pose an exposure pathway from shoreline deposition. In the past, releases to the pond have been negligible, with radioactivity levels ranging from non-detectable to very low levels of tritium and cesium. Therefore, based on historical effluents, a significant exposure pathway does not exist. If releases were to occur, this pathway would be evaluated.

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^{*} Chesapeake Nuclear Services report, <u>Davis-Besse Nuclear Power Station Meteorological and Atmospheric Dispersion Report</u>, November 2017.

The following equation, adapted from Regulatory Guide 1.109, provides a conservative estimate for this calculation:

$$D_{shore,o} = \frac{1.67E - 02 * VOL}{DF} * \sum_{i} C_{i} * A_{shore,i}$$

where:

 $D_{\text{shore, o}} = \text{dose to total body or any organ from shoreline exposure (mrem)}$

VOL = volume of undiluted liquid effluent to the pond (gal)

DF = dilution flow, average flow from the SSD to the pond during the time period of measurable levels being released to the pond (gal/min)

 C_i = concentration of radionuclide i in SSD to the pond

 $A_{\text{shore,i}} = \text{site-specific shoreline dose conversion factor for the total body and any organ (mrem/h per <math>\mu\text{Ci/ml}$, from Table 2-8)

1.67E-02 = conversion factor (hour per minute)

Table 28 provides the A_{shore,i} values that were calculated using Regulatory Guide 1.109 modeling.

4.2 DOSES TO MEMBERS OF THE PUBLIC - 40 CFR 190

As required by and ODCM Section 7.2, the Radioactive Effluent Release Report shall also include an assessment of the radiation dose to the likely most exposed MEMBER OF THE PUBLIC for reactor releases and other nearby uranium fuel cycle sources (including dose contributions from effluents and direct radiation from onsite sources). For the likely most exposed MEMBER OF THE PUBLIC in the vicinity of the Davis-Besse site, the sources of exposure need consider only the radioactive effluents and direct exposure contribution from Davis-Besse. No other fuel cycle facilities contribute significantly to the cumulative dose to a MEMBER OF THE PUBLIC in the immediate vicinity of the site. Fermi-2 is the closest fuel cycle facility located about 20 miles to the NNW. Due to environmental dispersion, any routine releases from Fermi-2 would contribute insignificantly to the potential doses in the vicinity of Davis-Besse.

The correlation of measured plant effluents with pathway modeling of this ODCM provide the primary method for demonstrating/evaluating compliance with the limits specified below (40 CFR 190). However, as appropriate, the results of the environmental monitoring program may be used to provide additional data on actual measured levels of radioactive material in the actual pathways of exposure. ODCM Section 4.2.3 discusses the methodology for correlating measured levels of radioactive material in environmental pathway samples with potential doses. Also, results of the Land Use Census may be used to determine actual exposure pathways and locations.

The annual (calendar year) dose or dose commitment to any MEMBER OF THE PUBLIC due to releases of radioactivity and to radiation from uranium fuel cycle sources shall be limited to less than or equal to 25 mrem to the total body or any organ, except the thyroid, which shall be limited to less than or equal to 75 mrem.

With the calculated doses from the releases of radioactive materials in liquid or gaseous effluents exceeding twice the limits of Sections 2.4.1, 3.7.1, and 3.8.1, evaluations should be made including direct radiation contributions from the reactor unit, from the Old Steam Generator Storage Facility (OSGSF) and from outside storage tanks to determine whether the above limits of this Section have been exceeded. If such is the case, prepare and submit to the Commission within 60 days, pursuant to Section 7.3, a Licensee Event Report that defines the corrective action to be taken to reduce subsequent releases to prevent recurrence of exceeding the above limits and includes the schedule for achieving conformance with the above limits. This report, as defined in 10 CFR Part 20.2203, shall include an analysis that estimates the radiation exposure (dose) to a MEMBER OF THE PUBLIC from uranium fuel cycle sources, including all effluent pathways and direct radiation, for the calendar year that includes the release(s) covered by this report. It shall also describe levels of radiation and concentrations of radioactive material involved, and the cause of the exposure levels or concentrations. If the estimated dose(s) exceeds the above limits, and if the release condition resulting in violation of 40 CFR Part 190 has not already been corrected, the report shall include a request for a variance in accordance with the provisions of 40 CFR Part 190. Submittal of the report is considered a timely request, and a variance is granted until staff action on the request is complete.

This requirement is provided to meet the dose limitations of 40 CFR Part 190 that have been incorporated into 10 CFR Part 20 by 46 FR 18525. The requirement requires the preparation and submittal of a report whenever the calculated doses from plant generated radioactive effluents and direct radiation exceed 25 mrem to the total body or any organ, except the thyroid, which shall be limited to less than or equal to 75 mrem.

It is highly unlikely that the resultant dose to a MEMBER OF THE PUBLIC will exceed the dose limits of 40 CFR Part 190 if the reactor remains within twice the dose design objectives of Appendix I, and if direct radiation doses from the reactor and outside storage tanks are kept small. The report will describe a course of action that should result in the limitation of the annual dose to a MEMBER OF THE PUBLIC to within the 40 CFR Part 190 limits. For the purposes of the report, it may be assumed that the dose commitment to the MEMBER OF THE PUBLIC from other uranium fuel cycle sources is negligible, with the exception that the dose contributions from other nuclear fuel cycle facilities at the same site or within a radius of 8 km must be considered. If a dose to any MEMBER OF THE PUBLIC is estimated to exceed the requirements of 40 CFR 190, the report with a request for variance (provided the release conditions resulting in violation of 40 CFR Part 190 have not already been corrected), in accordance with the provisions of 40 CFR Part 190.11 and 10 CFR Part 20.405c, is considered to be a timely request and fulfills the requirements of 40 CFR Part 190 until NRC staff action is completed. The variance only relates to the limits of 40 CFR Part 190, and does not apply in any way to the other dose requirements for dose limitation of 10 CFR Part 20, as addressed in Sections 2.2 and 3.3.1. An individual is not considered a MEMBER OF THE PUBLIC during any period in which he/she is engaged in carrying out any operation that is a part of the nuclear fuel cycle.

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4.2.1 Effluent Dose Calculations

For purposes of implementing the above requirements of determining the cumulative dose contribution from liquid and gaseous effluents in accordance with Sections 2 and 3 and the reporting requirements of Section 7, dose calculations for Davis-Besse may be performed using the calculational methods contained within this ODCM; the conservative controlling pathways and locations of Table 3-6 or the actual pathways and locations as identified by the Land Use Census may be used. Liquid pathway doses may be calculated using equations in ODCM Section 2.4. Doses due to releases of radioiodines, tritium and particulates are calculated based on equations in Section 3.8.

The following equations may be used for calculating the dose to MEMBERS OF THE PUBLIC from releases of noble gases:

$$D_{tb} = 3.17E - 08 * \frac{U}{8760} * \chi / Q * \Sigma (K_i * Q_i)$$
 (4-1)

and

$$D_s = 3.17E - 08 * U * \chi / Q * \Sigma ((L_i + 1.1 M_i) * Q_i)$$
 (4-2)

where:

 D_{tb} = total body dose due to gamma emissions for noble gas radionuclides (mrem)

D_s = skin dose due to gamma and beta emissions for noble gas radionuclides (mrem)

U = duration of exposure (hr/yr, default values in Table 4-1)

 χ/Q = atmospheric dispersion to the offsite location (sec/m³)

 Q_i = cumulative release of noble gas radionuclide i over the period of interest (μ Ci)

 K_i = total body dose factor due to gamma emissions from noble gas radionuclide i from Table 3-5 (mrem/yr per $\mu Ci/m^3$)

 L_i = skin dose factor due to beta emissions from noble gas radionuclide i from Table 3-5 (mrem/yr per μ Ci/m³)

 M_i = gamma air dose factor for noble gas radionuclide i from Table 3-5 (mrad/yr per $\mu Ci/m^3$)

8760 = hours per year

1.1 = mrem skin dose per mrad gamma air dose (mrem/mrad)

3.17E-08 = 1/3.15E+07 yr/sec

Average annual meteorological dispersion parameters or meteorological conditions concurrent with the release period under evaluation may be used (e.g., quarterly averages or year-specific annual averages).

4.2.2 Direct Exposure Dose Determination - Onsite Sources

Any potentially significant direct exposure contribution from onsite sources to offsite individual doses may be evaluated based on the results of the environmental measurements (e.g., TLD, ion chamber measurements) or by the use of a radiation transport and shielding calculational method. Only during atypical conditions will there exist any potential for significant onsite sources at Davis-Besse that would yield potentially significant offsite doses to a MEMBER OF THE PUBLIC. However, should a situation exist whereby the direct exposure contribution is potentially significant, onsite measurements, offsite measurements and calculational techniques will be used for determination of dose for assessing 40 CFR 190 compliance.

The following simplified method may be used for evaluating the direct dose based on onsite or site boundary measurements:

$$D_{L}, \theta = D_{B}, \theta \frac{\left(X_{B}, \theta\right)^{2}}{\left(X_{L}, \theta\right)^{2}}$$
(4-3)

where:

 D_B,θ = direct radiation dose measured at location B (onsite or site boundary) in sector

 D_L,θ = extrapolated dose at location L in same sector θ

 X_L, θ = distance to the location L from the radiation source

 X_B,θ = distance to location B from the radiation source

4.2.3 Dose Assessment Based on Radiological Environmental Monitoring Data

Normally, the assessment of potential doses to MEMBERS OF THE PUBLIC must be calculated based on the measured radioactive effluents at the plant. The resultant levels of radioactive material in the offsite environment are so minute as to be undetectable. The calculational methods as presented in this ODCM are used for modeling the transport in the environment and the resultant exposure to offsite individuals.

The results of the radiological environmental monitoring program can provide input into the overall assessment of impact of plant operations and radioactive effluents. With measured levels of plant related radioactive material in principal pathways of exposure, a quantitative assessment of potential exposures can be performed. With the monitoring program not identifying any measurable levels, the data provides a qualitative assessment - a confirmatory demonstration of the negligible impact.

Dose modeling can be simplified into three basic parameters that can be applied in using environmental monitoring data for dose assessment.

$$D = C * U * DF$$
 (4-4)

where:

D = dose or dose commitment

C = concentration in the exposure media, such as air concentration for the inhalation pathway, or fish, vegetation or milk concentration for the ingestion pathway

U = individual exposure to the pathway, such as hr/yr for direct exposure, kg/yr for ingestion pathway

DF = dose conversion factor to convert from an exposure or uptake to an individual dose or dose commitment

The applicability of each of these basic modeling parameters to the use of environmental monitoring data for dose assessment is addressed below:

Concentration - C

The main value of using environmental sampling data to assess potential doses to individuals is that the data represents actual measured levels of radioactive material in the exposure pathways. This eliminates one main uncertainty in the modeling - the release from the plant and the transport to the environmental exposure medium.

Environmental samples are collected on a routine frequency (e.g., weekly airborne particulate samples, monthly vegetable samples, annual fish samples). To determine the annual average concentration in the environmental medium for use in assessing cumulative dose for the year, an average concentration should be determined based on the sampling frequency and measured levels.

$$\overline{C}_{i} = \Sigma \left(C_{i} * t \right) / 365 \tag{4-5}$$

where:

 \overline{C}_i = average concentration in the sampling medium for the year

C_i = concentration of each radionuclide i measured in the individual sampling medium

t = period of time that the measured concentration is considered representative of the sampling medium (typically equal to the sampling frequency; e.g., 7 days for weekly samples, 30 days for monthly samples).

If the concentration in the sampling medium is below the detection capabilities (i.e., less than lower limits of detection -LLD), a value of zero should be used for C_i ($C_i = 0$).

Exposure - U

Default exposure values (U) as recommended in Regulatory Guide 1.109 are presented in Table 4-1. These values should be used only when specific data applicable to the environmental pathway being evaluated is unavailable.

Also, the routine radiological environmental monitoring program is designed to sample/monitor the environmental media that would provide early indications of any measurable levels in the environment but not necessarily levels to which any individual is exposed. For example, sediment samples are collected in the area of the liquid discharge: typically, no individuals are directly exposed. To apply the measured levels of radioactivity in samples that are not directly applicable to exposure to real individuals, the approach recommended is to correlate the location and measured levels to actual locations of exposure. Hydrological or atmospheric dilution factors can be used to provide reasonable correlations of concentrations (and doses) at other locations. The other alternative is to conservatively assume a hypothetical individual at the sampling location. Doses that are calculated in this manner should be presented as hypothetical and very conservatively determined - actual exposure would be much less. Samples collected from nearby wells or actual water supply intake (e.g., Port Clinton) should be used for estimating the potential drinking water doses. Other water samples collected, such as near field dilution area, are not applicable to this pathway.

Dose Factors - DF

The dose factors are used to convert the intake of the radioactive material to an individual dose commitment. Values of the dose factors are presented in NRC Regulatory Guide 1.109. The use of the Regulatory Guide 1.109 values applicable to the exposure pathway and maximum exposed individual is referenced in Table 4-1.

4.2.4 Use of Environmental TLD for Assessing Doses Due to Noble Gas Releases

Thermoluminescent dosimeters (TLD) are routinely used to assess the direct exposure component of radiation doses in the environment. However, because routine releases of radioactive material (noble gases) are so low, the resultant direct exposure doses are also very low. A study* performed for the NRC concluded that it is possible to determine a plant contribution to the natural background radiation levels (direct exposure) of around 10 mrem per year (by optimum methods and high precision data). Therefore, for routine releases from nuclear power plants the use of TLD is mainly confirmatory - ensuring actual exposures are within the expected natural background variation.

For releases of noble gases, environmental modeling using plant measured releases and atmospheric transport models as presented in this ODCM represents the best method of assessing potential environmental doses. However, any observed variations in TLD measurements outside the norm should be evaluated.

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^{*} NUREG/CR-0711, Evaluation of Methods for the Determination of X- and Gamma-Ray Exposure Attributable to a Nuclear Facility Using Environmental TLD Measurements, Gail dePlanque, June 1979, USNRC.

Table 4-1

RECOMMENDED EXPOSURE RATES IN LIEU OF SITE SPECIFIC DATA*

Exposure Pathway	Maximum Exposed Age Group	Exposure Rates	Table Reference for Dose Factors from RG 1.109
Liquid Releases			
Fish	Adult	21 kg/y	E-11
Drinking Water	Adult	730 l/y	E-11
Bottom Sediment	Teen	67 h/y	E-6
Atmospheric Releases			
Inhalation	Teen	$8,000 \text{ m}^3/\text{y}$	E-8
Direct Exposure	All	6,100 h/y**	N/A (ODCM Table 3-5)
Leafy Vegetables	Child	26 kg/y	E-13
Fruits, Vegetables & Grain	Teen	630 kg/y	E-12
Milk	Infant	330 l/y	E-14

^{*} Adapted from Regulatory Guide 1.109, Table E-5

^{**} Net exposure of 6,100 h/y is based on the total 8760 hours per year adjusted by a 0.7 shielding factor as recommended in Regulatory Guide 1.109.

5.0 ASSESSMENT OF LAND USE CENSUS DATA

A Land Use Census (LUC) is conducted annually in the vicinity of the Davis-Besse site. This census fulfills two main purposes: 1) meet requirements of the Radiological Environmental Monitoring Program (as required by 10 CFR 50, Appendix I, Section IV.B.3) for identifying controlling location/pathway for dose assessment of ODCM Section 3.8.1; and 2) provide data on actual exposure pathways for assessing realistic doses to MEMBERS OF THE PUBLIC.

5.1 LAND USE CENSUS REQUIREMENTS

A land use census shall be conducted during the growing season at least once per twelve months using that information that will provide the best results, such as by a door-to-door survey, aerial survey, or by consulting local agricultural authorities. The Land Use Census shall identify within a distance of 8 km (5 miles) the location, in each of the 16 meteorological sectors, of the nearest milk animal, the nearest residence and the nearest garden of greater than 50 m² (500 ft²) producing broad leaf vegetation. This requirement is provided to ensure that changes in the use of UNRESTRICTED AREAS are identified and that modifications to the monitoring program are made if required by the results of this census. This census satisfies the requirements of Section IV.B.3 of Appendix I to 10 CFR Part 50. Restricting the census to gardens of greater than 50 m² (500 ft²) provides assurance that significant exposure pathways via leafy vegetables will be identified and monitored. A garden of this size is the minimum required to produce the quantity (26 kg/year) of leafy vegetables assumed in Regulatory Guide 1.109 for consumption by a child. To determine this minimum garden size, the following assumptions were made: (1) 20% of the garden was used for growing broad leaf vegetation (i.e., similar to lettuce and cabbage), and (2) a vegetation yield of 2 kg/m².

The data from the Land Use Census is used for updating the location/pathway for dose assessment and for updating the Radiological Environmental Monitoring Program. The results of the Land Use Census shall be included in the Annual Radiological Environmental Operating Report pursuant to Section 7.1.

With a Land Use Census identifying a location(s) that yields a calculated dose or dose commitment greater than the values currently being calculated in Sections 3.8.1, identify the new locations(s) in the next Radioactive Effluent Release Report, pursuant to Section 7.2. With a Land Use Census identifying a locations(s) that yields a calculated dose or dose commitment (via the same exposure pathway) 20 percent greater than that at a location from which samples are currently being obtained in accordance with Section 6.1, add the new locations(s) if practical (and readily obtainable) to the Radiological Environmental Monitoring Program within 30 days. The sampling locations(s), excluding the control station location, having a lower calculated dose or dose commitment(s), via the same exposure pathway, may be deleted from this monitoring program. Identify the new location(s) in the next Radioactive Effluent Release Report and also include in the report a revised figure(s) and table for the ODCM reflecting the new location(s).

The following guidelines shall be used for assessing the results from the Land Use Census to ensure compliance with this Section.

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5.1.1 Data Compilation

- A. Locations and pathways of exposure as identified by the Land Use Census will be compiled for comparison with the current locations as presented in Table 3-4.
- B. Changes from the previous year's census will be identified. Also, any location/pathway not currently included in the Radiological Environmental Monitoring Program (Table 6-2) will be identified.
- C. Historical, annual average meteorological dispersion parameters $(\chi/Q, D/Q)$ for any new location (i.e., location not previously identified and/or evaluated) will be determined. All locations should be evaluated against the same historical meteorological data set.

5.1.2 Relative Dose Significance

- A. For all new locations, the relative dose significance will be determined by applicable pathways of exposure.
- B. Relative dose calculations should be based on a generic radionuclide distribution (e.g., Davis-Besse USAR gaseous effluent source term or past year actual effluents). An I-131 source term dose may be used for assessment of the maximum organ ingestion pathway dose because of its overwhelming contribution to the total dose relative to the other particulates.
- C. The pathway dose equations of the ODCM should be used.

5.1.3 Data Evaluation

- A. The controlling location used in the ODCM Table 3-4 will be verified. If any location/pathway(s) is identified with a higher relative dose, this location/pathway(s) should replace the previously identified controlling location/pathway in Table 3-4. If the previously identified controlling pathway is no longer present, the current controlling location/pathway should be determined.
- B. Any changes in either the controlling location/pathway(s) of the ODCM dose calculations (Section 3.7 and Table 3-4) or the Radiological Environmental Monitoring Program (ODCM Section 6.0 and Table 6-2) shall be reported to NRC in accordance with ODCM Section 5.1 and 7.2.

5.2 LAND USE CENSUS TO SUPPORT REALISTIC DOSE ASSESSMENT

The Land Use Census (LUC) provides data needed to support the special dose analyses of Section 4.0. Activities inside the UNRESTRICTED AREA BOUNDARY should be periodically reviewed for dose assessment as required by Section 4.1. Assessment of realistic doses to MEMBERS OF THE PUBLIC is required by Section 4.0 for demonstrating compliance with the EPA Environmental Dose Standard, 40 CFR 190 (Section 4.2).

Even though not a part of the LUC, to support these dose assessments, areas within the UNRESTRICTED AREA BOUNDARY that are accessible to the public; and (b) use of Lake Erie water on and near the site are evaluated. The scope of the evaluation includes the following:

- Assessment of areas onsite that are accessible to MEMBERS OF THE PUBLIC. Particular attention should be given to assessing exposure times for visits to the Davis-Besse Administration Building and Wellness Center. Data should be used for updating Table 4-1.
- Data on Lake Erie use should be obtained from local and state officials. Reasonable efforts shall be made to identify individual irrigation and potable water users, and industrial and commercial water users whose source is Lake Erie. This data is used to verify the pathways of exposure used in Section 2.4.

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6.0 RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

The Radiological Environmental Monitoring Program (REMP) provides measurements of radiation and of radioactive materials in those exposure pathways and for those radionuclides which lead to the higher potential radiation exposures of individuals resulting from the station operations. The sampling and analysis program described in this Section was developed to provide representative measurements of radiation and radioactive materials resulting from station operation in the principal pathways of exposure of MEMBERS OF THE PUBLIC. This monitoring program implements Sections IV.B.2 of Appendix I to 10 CFR Part 50 and thereby supplements the radiological effluent controls by verifying that the measurable concentrations of radioactive materials and levels of radiation are not higher than expected on the basis of the effluent measurements and the modeling of the environmental exposure pathways. Guidance for the development of this monitoring program is provided by the Radiological Assessment Branch Technical Position on Environmental Monitoring.

6.1 PROGRAM DESCRIPTION

6.1.1 General

The REMP shall be conducted as specified in Table 6-1. This table describes the minimum environmental media to be sampled, the sample collection frequencies, the number of representative samples required, the characteristics of the sampling locations, and the type and frequency of sample analysis. Table 6-2 provides a detailed listing of the sample locations for Davis-Besse which satisfy the requirements of Table 6-1. Wherever possible, the Davis-Besse program includes redundant sample locations to minimize the occurrence of missed samples. Maps for each site listed in Table 6-2 are contained in Appendix C. The specific locations used to satisfy the requirements of Table 6-1 may be changed as deemed appropriate by the Manager – Site Chemistry. The changes shall be reported in the Annual Radiological Environmental Operating Report and the Radiological Effluent Release Report as required by Sections 7.1 and 7.2, respectively. If the changes are to be permanent, Table 6-2 and Appendix C shall be updated.

Note: For the purpose of implementing Section 5.1, sampling locations will be modified, to reflect the findings of the Land Use Census as described in ODCM Section 5.1.

6.1.2 <u>Program Deviations</u>

With the minimum REMP samples not collected and analyzed as specified in Table 6-1, prepare and submit to the Commission, in the Annual Radiological Environmental Operating Report required by Section 7.1, a description of the reasons for not conducting the program as required and plans for preventing a recurrence.

6.1.3 Unavailability of Milk or Broad Leaf Vegetation Samples

With milk or fresh leafy vegetable samples unavailable from one or more of the sample locations required by Table 6-1, identify locations for obtaining replacement samples and if practical add them to the REMP within 30 days. The locations from which samples were unavailable may then be deleted from the monitoring program. In lieu of a Licensee Event Report and pursuant to Section 7.2, identify the cause of the unavailability of samples and identify and the new locations(s) for obtaining replacement samples in the next Radiological Effluent Release Report and also include in the report a revised figure(s) and table for the ODCM reflecting the new locations(s).

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6.1.4 Seasonal Unavailability, Equipment Malfunctions, Safety Concerns

With specimens unobtainable due to hazardous conditions, seasonal unavailability, malfunction of automatic sampling equipment and other legitimate reasons, every effort will be made to complete corrective action prior to the end of the next sampling period. All deviations from the sampling schedule will be documented in the Annual Radiological Environmental Operating report pursuant to Section 7.1.

6.1.5 Sample Analysis

REMP samples shall be analyzed pursuant to the requirements of Table 6-1 and the detection capabilities required by Table 6-3. Cumulative potential dose contributions for the current calendar year from radionuclides detected in environmental samples shall be determined in accordance with the methodology and parameters in this ODCM.

6.2 REPORTING LEVELS

6.2.1 General

The reporting levels are based on the design objective doses of 10 CFR 50, Appendix I (i.e., levels of radioactive material in the sampling media corresponding to potential annual doses of 3 mrem, total body or 10 mrem, maximum organ from liquid pathways; or 5 mrem, total body, or 15 mrem, maximum organ for gaseous effluent pathways - the annual limits of Sections 2.4.1, 3.7.1 and 3.8.1). These potential doses are modeled on the maximum exposure or consumption rates of NRC Regulatory Guide 1.109.

The evaluation of potential doses should be based solely on radioactive material resulting from plant operation.

6.2.2 Exceedance of Reporting Levels

With the level of radioactivity as the result of plant effluents in an environmental sampling medium at a specified location exceeding the reporting levels of Table 6-4 when averaged over any calendar quarter, prepare and submit to the Commission within 60 days, pursuant to Section 7.3, a Licensee Event report that identifies the cause(s) for exceeding the limit(s) and defines the corrective actions to be taken to reduce radioactive effluents so that the potential annual dose to MEMBER OF THE PUBLIC is less than the calendar year limits of Sections 2.4.1, 3.7.1 and 3.8.1. When more than one of the radionuclides in Table 6-3 are detected in the sampling medium, this report shall be submitted if:

$$\frac{\text{concentration (1)}}{\text{reporting level (1)}} + \frac{\text{concentration (2)}}{\text{reporting level (2)}} + \ldots \ge 1.0.$$

When radionuclides other than those in Table 6-4 are detected and are the result of plant effluents, this report shall be submitted if the potential annual dose to a MEMBER OF THE PUBLIC is equal to or greater than the calendar year limits of Sections 2.4.1, 3.7.1 and 3.8.1. The method described in Section 4.2.3 may be used for assessing the potential dose and required reporting for radionuclides other than those listed in Table 6-4.

A Licensee Event Report is not required if the measured level of radioactivity was not the result of plant effluents; however, in such an event, the condition shall be reported and described in the Annual Radiological Environmental Operating Report.

6.3 INTERLABORATORY COMPARISON PROGRAM

Analyses shall be performed on radioactive materials supplied as part of an Interlaboratory Comparison Program that has been approved by the Commission. The requirement for participating in an approved Interlaboratory Comparison Program is provided to ensure that independent checks on the precision and accuracy of the measurements of radioactive material in environmental sample matrices are performed as part of the quality assurance program for environmental monitoring in order to demonstrate that the results are reasonably valid for the purposes of Section IV.B.2 of Appendix I to 10 CFR Part 50.

A summary of the results obtained as part of the required Interlaboratory Comparison Program shall be included in the Annual Radiological Environmental Operating Report pursuant to Section 7.1. With analyses not being performed as required, report the corrective actions taken to prevent a recurrence to the Commission in the Annual Radiological Environmental Operating Report pursuant to Section 7.1.

Table 6-1

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

	Exposure Pathway and/or Sample	Minimum Number of Representative Samples and Sample Locations ^a	Collection Frequency	Type and Frequency of Analysis
1.	DIRECT RADIATION ^b (TLD)	27 routine monitoring stations either with two or more dosimeters or with one instrument for measuring and recording dose rate continuously, placed as follows:	Quarterly	Gamma dose quarterly
		an inner ring of stations, generally one in each meteorological sector in the general area of the UNRESTRICTED AREA BOUNDARY;		
		an outer ring of stations, one in each meteorological sector in the 6 to 8 km range from the site, excluding the sectors over Lake Erie;		
		the balance of the stations to be placed in special interest areas such as population centers, nearby residences, schools, and in 1 or 2 areas to serve as control stations.		

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

	Exposure Pathway and/or Sample	Minimum Number of Representative Samples and Sample Locations ^a	Collection Frequency	Type and Frequency of Analysis
2.	AIRBORNE ^c			
	Radioiodine and Particulates (AI/AP)	Samples from 5 locations, placed as follows: 3 samples from close to the UNRESTRICTED AREA BOUNDARY, in different sectors, generally from areas of higher calculated annual average groundlevel D/Q. *1 sample from the vicinity of a nearby community, generally in the area of higher calculated annual average groundlevel D/Q. 1 sample from a control location, 15-30 km from the site.	Continuous sampler operation with sample collection weekly, or more frequent if required by dust loading.	Radioiodine Canister: I-131 analysis weekly. Particulate Sampler: Gross beta radioactivity analysis following filter change; ^d Gamma isotopic analysis of composite (by location) quarterly.
3.	WATERBORNE			
J.	a. Surface (untreated water) (SWU)	2 samples	Weekly composite sample (Indicator location should be a composite)	Tritium and gamma isotopic analysis of composite sample monthly.
	b. Ground (WW)	Sample from one source only if likely to be affected ^f	Quarterly	Gamma isotopic ^e and tritium analysis quarterly.

*NOTE: A nearby community may be considered as a large group of residences in a close proximity to the Plant.

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

	Exposure Pathway and/or Sample		Minimum Number of Representative Samples and Sample Locations ^a	Collection Frequency	Type and Frequency of Analysis	
	c.	Drinking (Treated water) (SWT)	1 sample from the nearest source.1 sample from a control location.	Weekly composite sample.	Gross beta on monthly composite. Tritium and gamma isotopic analysis on quarterly composite. I-131 analysis on each composite when the dose calculated for the consumption of the water is greater than 1 mrem per year.	
	d.	Sediment from Shoreline (SED)	1 sample from area with existing or potential recreational value.	Semiannually	Gamma isotopic analyzed semi-annually.	
4.	INGESTION					
	a.	Milk (MIL)	If available ^g , samples from animals up to 2 locations within 8 km distance having the highest dose potential.	Semimonthly when animals are on pasture, monthly at other times	Gamma isotopic ^e and I-131 analysis semi- monthly when animals are on pasture; monthly at other times.	
			1 sample ^g from milking animals at a control location 15-30 km distant and generally in a less prevalent wind direction.			
	b.	Fish (FIS)	1 sample each of 2 commercially and/or recreationally important species in vicinity of site.	1 sample in season.	Gamma isotopic analysis on edible portions.	
			1 sample of same species in areas not influenced by plant discharge.			

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

Exposure Pathway and/or Sample	Minimum Number of Representative Samples and Sample Locations ^a	Collection Frequency	Type and Frequency of Analysis
c. Food Products (Broad leaf vegetation) (BLV)	Samples of up to 3 different kinds of broad leaf vegetation grown in two different offsite locations of higher predicted annual average ground-level D/Q if milk sampling is not performed ^g .	Monthly when available.	Gamma isotopic ^f and I-131 analysis.
	1 sample of each of the similar broad leaf vegetations grown 15-30 km distant in a less prevalent wind direction if milk sampling is not performed ^g .	Monthly when available.	Gamma isotopic ^f and I-131 analysis.

TABLE NOTATION

^aSpecific parameters of distance and direction sector from the centerline of the reactor, and additional description (where pertinent) are provided for each and every sample location in Table 6-2. Refer to NUREG-0133, "Preparation of Radiological Effluent Technical Specifications for Nuclear Power Plants", October 1978, and to Radiological Assessment Branch Technical Position, Revision 1, November 1979. It is recognized that, at times, it may not be possible or practicable to continue to obtain samples of the media of choice at the most desired location or time. In these instances suitable alternative media and locations may be chosen for the particular pathway in question and appropriate substitutions made within 30 days in the Radiological Environmental Monitoring Program. In lieu of a Licensee Event Report and pursuant to Technical Specification 5.6.1 and Section 7.2, identify the cause of the unavailability of samples for that pathway and identify the new locations(s) for obtaining replacement samples in the next Radioactive Effluent Release Report. Also, include in the report a revised figure(s) and table for the ODCM reflecting the new location(s).

bOne or more instruments, such as a pressurized ion chamber, for measuring and recording dose rate continuously may be used in place of, or in addition to, integrating dosimeters. For the purposes of this table, a thermoluminescent dosimeter (TLD) is considered to be one phosphor; two or more phosphors in a packet are considered as two or more dosimeters. Film badges shall not be used as dosimeters for measuring direct radiation. The number of direct radiation monitoring stations may be reduced according to geographical limitations; e.g., at an ocean site, some sectors will be over water so that the number of dosimeters may be reduced accordingly. The frequency of analysis or readout for TLD systems will depend upon the characteristics of the specific system used and should be selected to obtain optimum dose information with minimal fading. Whenever possible, an additional TLD is located in each sector at a different location to ensure the minimum number of samples in Table 6-1 are collected and analyzed.

^cDue to lack of suitable locations (marsh and private unavailable private property) for installation of an air monitor close to the Unrestricted Area Boundary in the sectors with the highest two calculated annual average groundlevel D/Q, monitors are installed in the third, sixth, and eleventh highest annual D/Q. Whenever possible, an additional monitor is in service in a different sector to ensure the minimum number of air samples in Table 6-1 are collected and analyzed.

^dAirborne particulate sample filters shall be analyzed for gross beta radioactivity 24 hours or more after sampling to allow for radon and thoron daughter decay. If gross beta activity in air particulate samples is greater than ten times the yearly mean of control samples, then gamma isotopic analysis shall be performed on the individual samples.

^eGamma isotopic analysis means the identification and quantification of gamma emitting radionuclides that may be attributable to the effluents from the facility.

^fGroundwater samples shall be taken when this source is tapped for drinking or irrigation purposes in areas where the hydraulic gradient or recharge properties are suitable for contamination. There currently are not any wells used for drinking or irrigation purposes located in areas where the hydraulic gradient or recharge properties are suitable for contamination. Groundwater wells located within the Unrestricted Area Boundary are monitored in accordance with the NEI 07-07 program.

gThere currently are not any milking animals within 8 km distance from the station. A Control location 15-30 km from the station has been established for sampling milk if animals are reintroduced to the area.

Table 6-2
REMP SAMPLING LOCATIONS

Location	Samples Collected (1)	Appendix C Page Reference	Type of Location*	Location Description
T-1	AI, AP, TLD	145, 148	I	Inner Ring, 0.6 mile ENE of Station
T-2	AI, AP, TLD	145, 148	I	Inner Ring, 0.9 mile E of Station
T-3	AI, AP, TLD, SWU, SED	145, 148, 151	I	Inner Ring, 1.4 miles ESE of Station near mouth of Toussaint River
T-4	AI, AP, TLD	145, 148	I	Inner Ring, 0.8 mile S of Station
T-5	TLD	145	I	Inner Ring. 0.5 mile W of Station
T-6	TLD	145	I	Inner Ring, 0.5 mile NNE of Station
T-7	AI, AP, TLD**	147, 149	I/C	Community, 0.9 mile NW of Station
T-9	AI,AP, TLD**	147, 150	I/C	Community, 6.8 miles SW of Station
T-10	TLD	145	I	Inner Ring, 0.5 mile SSW of Station
T-11	AI, AP, TLD, SWT, SWU, SED	147, 150, 153	С	All samples are collected at the Ottawa County Regional Water Intake Facility, 9.5 miles SE of Plant except for Treated Water Sample, which is collected at the Ottawa County Regional Water Treatment Plant, 9.1 miles SE of Plant
T-12	AI, AP, TLD	147, 150	C	Toledo Water Treatment Plant, 20.7 miles WNW of Station
T-17	BLV	154	I	Garden, 1.82 miles SSE of Station
T-19	BLV	154	I	Garden, 1.0 mile W of Station
T-22	SWT, SWU	151, 152	Ι	Carroll Township Water Treatment Plant, SWU collected 2.1 miles W of station and SWT from REMP Lab DBAB Annex
T-24	MIL	155	С	Dairy, 21 miles SE of Station

^{*} I = Indicator locations; C = Control locations.

^{**} T-7 and T-9 TLDs are Control Locations
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Table 6-2
REMP SAMPLING LOCATIONS

T-27 AI, AP, TLD, WW 154, 155 C Park, 5.0 miles WNW of Station T-29 WW 155 C Marina, 2.3 miles WNW of Station T-30 BLV 155 C Farm, 12.8 miles WNW of Station T-33 FIS 152 I Lake Erie within a 5-mile radius from Station T-35 FIS 153 C Lake Erie, greater than a 10-mile radius from Station T-37 BLV 155 C Farm, 13 miles SW of Station T-38 TLD 145 I Inner Ring, 0.6 mile ENE of Station	
 T-30 BLV 155 C Farm, 12.8 miles WNW of Station T-33 FIS 152 I Lake Erie within a 5-mile radius from Station T-35 FIS 153 C Lake Erie, greater than a 10-mile radius from Station T-37 BLV 155 C Farm, 13 miles SW of Station 	
T-33 FIS 152 I Lake Erie within a 5-mile radius from Station T-35 FIS 153 C Lake Erie, greater than a 10-mile radius from Station T-37 BLV 155 C Farm, 13 miles SW of Station	
T-35 FIS 153 C Lake Erie, greater than a 10-mile radius from Station T-37 BLV 155 C Farm, 13 miles SW of Station	
T-37 BLV 155 C Farm, 13 miles SW of Station	
	S
T-38 TLD 145 I Inner Ring, 0.6 mile ENE of Station	
T-40 TLD 145 I Inner Ring, 1.1 mile SE of Station	
T-41 TLD 145 I Inner Ring, 0.75 mile SSE of Station	
T-42 TLD 145 I Inner Ring, 0.6 mile SW of Station	
T-43 TLD 145 I Inner Ring, 0.5 mile SW of Station	
T-44 TLD 145 I Inner Ring, 0.5 mile WSW of Station	
T-45 TLD 145 I Inner Ring, 0.5 mile WNW of Station	
T-46 TLD 145 I Inner Ring, 0.5 mile NW of Station	
T-47 TLD 145 I Inner Ring, 0.5 mile N of Station	
T-48 TLD 145 I Inner Ring, 0.5 mile NE of Station	
T-49 TLD 145 I Inner Ring, 0.5 mile NE of Station	
T-51 TLD 146 I Outer Ring, 4.2 miles SSE of Station	
T-52 TLD 146 I Outer Ring, 4.2 miles S of Station	
T-54 TLD 146 I Outer Ring, 4.2 miles SW of Station	
T-55 TLD 146 I Outer Ring, 4.0 miles W of Station	
T-60 TLD 145 I Inner Ring, 0.7 miles S of Station	

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^{*} I = Indicator locations; C = Control locations.

Table 6-2
REMP SAMPLING LOCATIONS

Location	Samples Collected (1)	Appendix C Page Reference	Type of Location*	Location Description
T-62	TLD	145	I	Inner Ring, 1.0 mile SE of Station
T-67	TLD	145	I	Inner Ring, 0.4 miles NNW of Station
T-68	TLD	145	I	Inner Ring, 0.5 miles WNW of Station
T-69	TLD	145	I	Inner Ring, 0.4 miles W of Station
T-71	TLD	145	I	Inner Ring, 0.5 miles NNW of Station
T-73	TLD	145	I	Inner Ring, 0.5 miles WSW of Station
T-74	TLD	145	I	Inner Ring, 0.5 miles SSW of Station
T-100	TLD	147	C	Population Center, 6.0 miles S of Station
T-124	TLD	147	С	Population Center, 6.0 miles SSW of Station
T-125	TLD	146	I	Outer Ring, 4.4 miles SSW of Station
T-126	TLD	146	I	Outer Ring, 4.4 miles S of Station
T-127	TLD	146	I	Outer Ring, 4.0 miles SSE of Station
T-128	TLD	146	I	Outer Ring, 4.0 miles SE of Station
T-142	TLD	145	I	Inner Ring, 0.8 miles SSE of Station
T-150	TLD	147	C	Residence, 2.1 miles NW of Station
T-154	TLD	146	I	Outer Ring, 4.0 miles SW of Station
T-155	TLD	147	C	Population Center, 9.5 miles SE of Station
T-201	TLD	147	C	Residence, 1.1 miles NNW of Station
T-203	TLD	145	I	Inner Ring, 0.7 miles N of Station
T-206	TLD	145	I	Inner Ring, 0.6 miles NW of Station
T-208	TLD	145	I	Inner Ring, 0.5 miles NNE of Station
T-211	TLD	145	I	Inner Ring, 0.8 miles E of Station

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^{*} I = Indicator locations; C = Control locations.

Table 6-2
REMP SAMPLING LOCATIONS

Location	Samples Collected (1)	Appendix C Page Reference	Type of Location*	Location Description
T-212	TLD	145	I	Inner Ring, 1.2 miles ESE of Station
T-217	TLD	146	I	Outer Ring, 4.2 miles SSW of Station
T-218	TLD	146	I	Outer Ring, 4.0 miles WSW of Station
T-219	TLD	146	I	Outer Ring, 4.8 miles WSW of Station
T-220	TLD	146	I	Outer Ring, 4.6 miles W of Station
T-221	TLD	146	I	Outer Ring, 5.0 miles WNW of Station
T-222	TLD	146	I	Outer Ring, 3.8 miles WNW of Station
T-224	TLD	146	I	Outer Ring, 4.4 miles SE of Station

(1) See Table 6-1 for Sample designations: AP/AI/TLD/SWU/SWT/WW/SED/FIS/BLV

^{*} I = Indicator locations; C = Control locations.

Table 6-3

LOWER LIMITS OF DETECTION (LLD)^a

		Airborne Particulat	te			
Analysis	Water (pCi/1)	or Gas (pCi/m³)	Fish (pCi/kg. wet)	Milk (pCi/1)	Food Products (pCi/kg, wet)	Sediment (pCi/kg, dry)
Gross Beta	4 ^b	1.0E-02				
3_{H}	2000°*					
54_{Mn}	15		130			
59_{Fe}	30		260			
$58,60_{Co}$	15		130			
65_{Zn}	30		260			
95_{Zr}	15					
$131_{\rm I}$	1^{d}	7.0E-02		1	60	
134, 137 _{Cs}	15(10 ^b),18	6.0E-02	130	15	60	150
140 _{Ba - La}	15			15		

NOTE: This list does not mean that only these nuclides are to be detected and reported. Other peaks which are measurable and identifiable, together with the above nuclides, shall be identified and reported.

^{*} If no drinking water pathway exists, a value of 3000 pCi/L may be used.

TABLE NOTATION

a. The LLD is the smallest concentration of radioactive material in a sample that will be detected with 95% probability (with 5% probability of falsely concluding that a blank observation represents a "real" signal).

For a particular measurement system (which may include radiochemical separation):

LLD =
$$\frac{4.66 \text{ sb}}{\text{E * V * 2.22 * Y * exp}(-\lambda \Delta t)}$$

where:

LLD is the lower limit of detection as defined above (pCi per unit mass or volume),

s_b is the standard deviation of the background counting rate or of the counting rate of a blank sample as appropriate (counts per minute),

E is the counting efficiency (counts per transformation),

V is the sample size (in units of mass or volume),

2.22 is the number of transformations per minute per picocurie,

Y is the fractional radiochemical yield (when applicable),

 λ is the radioactive decay constant for the particular radionuclide,

At is the elapsed time between end of the sample collection period and time of counting.

Typical values of E, V, Y and Δt should be used in the calculations.

The LLD is defined as an <u>a priori</u> (before the fact) limit representing the capability of a measurement system and not as <u>a posteriori</u> (after the fact) limit for a particular measurement.

Analyses shall be performed in such a manner that the stated LLDs will be achieved under routine conditions. Occasionally background fluctuations, unavoidable small sample sizes, the presence of interfering nuclides, or uncontrollable circumstances may render these LLDs unachievable. In such cases, the contributing factors will be identified and described in the Annual Radiological Environmental Operating Report.

For more complete discussion of the LLD and other detection limits, see the following:

- (1) HASL Procedures Manual, <u>HASL-300</u> (revised annually).
- (2) Currie, L. A., "Limits for Qualitative Detection and Quantitative Determination Application to Radiochemistry" <u>Anal. Chem. 40</u>, 586-93 (1968).

TABLE NOTATION

- (3) Hartwell, J. K., "Detection Limits for Radioisotopic Counting Techniques", Atlantic Richfield Hanford Company Report ARH-2537 (June 22, 1972).
- b. LLD for drinking water.
- c. If no drinking water pathway exists, a value of 3000 pCi/liter may be used.
- d. LLD only when specific analysis for I-131 required.

Table 6-4

REPORTING LEVELS FOR RADIOACTIVITY CONCENTRATIONS IN ENVIRONMENTAL SAMPLES

Reporting Levels

	Water	Airborne Particulate or Gas	Fish	Milk	Vegetables
Analysis	(pCi/L)	(pCi/m³)	(pCi/kg. wet)	(pCi/1)	(pCi/kg, wet)
H-3	2.0E+04*				
Mn-54	1.0E+03		3.0E+04		
Fe-59	4.0E+02		1.0E+04		
Co-58	1.0E+03		3.0E+04		
Co-60	3.0E+02		1.0E+04		
Zn-65	3.0E+02		2.0E+04		
Zr-Nb-95	4.0E+02				
I-131	2.0E+00	9.0E-01		3.0E+00	1.0E+02
Cs-134	3.0E+01	1.0E+01	1.0E+03	6.0E+01	1.0E+03
Cs-137	5.0E+01	2.0E+01	2.0E+03	7.0E+02	2.0E+03
Ba-La-140	2.0E+02			3.0E+02	

^{*} For drinking water samples, this is the 40 CFR 141 value. If no drinking water pathway exists, a value of 30,000 pCi/liter may be used.

7.0 <u>ADMINISTRATIVE CONTROLS</u>

7.1 ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT

Routine Radiological Environmental Operating reports covering the operation of the unit during the previous calendar year shall be submitted by May 15 of each year.

The Annual Radiological Environmental Operating Report shall include summaries, interpretations, and an analysis of trends of the results of the radiological environmental verification activities for the report period, including a comparison with the preoperational studies, with operational controls, as appropriate, and with previous environmental surveillance reports and an assessment of the observed impacts of the plant operation on the environment. The reports shall also include the results of land use censuses as required in Section 5.1.

The Annual Radiological Environmental Operating Reports shall include the summarized and tabulated results of analysis of radiological environmental samples and of radiation measurements taken during the period pursuant to the locations specified in Sections 6.1 and Appendix C of this ODCM. In the event that some results are not available for inclusion with the report, the report shall be submitted noting and explaining the reasons for the missing results. The missing data shall be submitted as soon as possible in a supplementary report.

The reports shall also include the following: a summary description of the radiological environmental monitoring program; at least two legible maps covering all sampling locations keyed to a table giving distances and directions from the centerline of one reactor; the results of licensee participation in the Interlaboratory Comparison Program, required by Section 6.3; and discussions of all analyses in which the LLD required by Table 6-3 was not achievable.

7.2 RADIOACTIVE EFFLUENT RELEASE REPORT

Radioactive Effluent Release Reports covering the operation of the unit during the previous calendar year shall be submitted by May 15 of each year.

The Radioactive Effluent Release Reports (RERR) shall include a summary of the quantities of radioactive liquid and gaseous effluents and solid waste released from the unit as outlined in Regulatory Guide 1.21, "Measuring, Evaluating, and Reporting Radioactivity in Solid Wastes and Releases of Radioactive Materials in Liquid and Gaseous Effluents from Light-Water-Cooled Nuclear Power Plants," Revision 1, June 1974, with data summarized on a quarterly basis following the format of Appendix B thereof.

The RERR shall include an annual summary of hourly meteorological data collected over the previous year. This annual summary may be either in the form of an hour-by-hour listing of wind speed, wind direction, atmospheric stability, and precipitation (if measured), or in the form of joint frequency distributions of wind speed, wind direction, and atmospheric stability. This same report shall include an assessment of the radiation doses due to the radioactive liquid and gaseous effluents released from the unit or station during the previous calendar year. This same report shall also include an assessment of the radiation doses from radioactive liquid and gaseous effluents to MEMBERS OF THE PUBLIC due to their activities inside the UNRESTRICTED AREA BOUNDARY during the reporting period. All assumptions used in making these assessments, i.e., specific activity, exposure time, and location, shall be included in these reports. The assessment of radiation doses shall be performed in accordance with the methodology and parameters in this ODCM.

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The RERR shall also include an assessment of radiation doses to the likely most exposed MEMBER OF THE PUBLIC from reactor releases and other nearby uranium fuel cycle sources, including doses from primary effluent pathways and direct radiation, for the previous calendar year to show conformance with 40 CFR Part 190, "Environmental Radiation Protection Standards for Nuclear Power Operation."

The RERR shall include the following information for each class of solid waste (as defined by 10 CFR Part 61) shipped offsite during the report period:

- a. container volume.
- b. total curie quantity (specify whether determined by measurement or estimate),
- c. principal radionuclides (specify whether determined by measurement or estimate),
- d. source of waste and processing employed (e.g., dewatered spent resin, compressed dry waste, evaporator bottoms).
- e. type of container (e.g., Type A, Type 3, Large Quantity), and
- f. solidification agent or absorbent (e.g., cement, urea formaldehyde).

The RERR shall include a list and description of unplanned releases from the site to UNRESTRICTED AREAS of radioactive materials in gaseous and liquid effluents made during the reporting period.

The RERR shall include any changes made during the reporting period to the PROCESS CONTROL PROGRAM (PCP) and to the ODCM, as well as a listing of new locations for dose calculations and pursuant to Section 5.1.

The RERR shall include any radionuclide activity limits for the BWST which have been exceeded during the reporting period, a description of the event leading to the limit being exceeded and action taken to return it to within the limits.

7.3 LICENSEE EVENT REPORTS

Licensee Event Reports shall be submitted to the U. S. Nuclear Regulatory Commission (NRC) in accordance with 10 CFR 50.4 within the time period specified for each report. These reports shall be submitted covering the activities identified below pursuant to the requirements of the applicable reference:

- a. dose or dose commitment exceedences to a MEMBER OF THE PUBLIC from radioactive materials in liquid effluents released to UNRESTRICTED AREAS (Section 2.4.1),
- b. the discharge of radioactive liquid waste without treatment and in excess of the limits in Section 2.
- c. the calculated air dose from radioactive gases exceeding the limits in Section 3.7.1,
- d. the calculated dose from the release of iodine-131, tritium, and radionuclides in particulate form with half-lives greater than 8 days, in gaseous effluents exceeding the limits of Section 3.8.1.

- e. the discharge of radioactive gaseous waste without treatment and in excess of the limits in Section 3.9.
- f. the calculated doses from the release of radioactive materials in liquid or gaseous effluents exceeding the limits of Section 4.2, and
- g. the level of radioactivity as the result of plant effluents in an environmental sampling medium exceeding the reporting levels of Table 6-4 (Section 6.2.2).

7.4 MAJOR CHANGES TO RADIOACTIVE LIQUID AND GASEOUS WASTE TREATMENT SYSTEMS

Licensee initiated major changes to the radioactive waste systems (liquid and gaseous):

- 1. Shall be reported to the Commission in the update to the Safety Analysis Report. The discussion of each change shall contain:
 - a. a summary of the evaluation that led to the determination that the change could be made in accordance with 10 CFR Part 50.59;
 - b. sufficient detailed information to totally support the reason for the change without benefit of additional or supplemental information;
 - c. a detailed description of the equipment, components and processes involved and the interfaces with other plant systems;
 - d. an evaluation of the change which shows the predicted releases of radioactive materials in liquid or gaseous effluents and/or quantity of solid waste that differ from those previously predicted in the license application and amendments thereto;
 - e. an evaluation of the change which shows the expected maximum exposures to individuals in the UNRESTRICTED AREA and the general population that differ from those previously estimated in the license application and amendments thereto;
 - f. a comparison of the predicted releases of radioactive materials in liquid and gaseous effluents to the actual releases for the period prior to when the changes are to be made;
 - g. an estimate of the exposure to plant operating personnel as a result of the change; and
 - h. documentation of the fact that the change was reviewed and found acceptable by the Plant Operations Review Committee.
- 2. Shall become effective upon review and acceptance by the Plant Operations Review Committee.

- 7.5 DEFINITIONS
- 7.5.1 BATCH RELEASE The discharge of liquid wastes of a discrete volume.
- 7.5.2 COMPOSITE SAMPLE A sample in which the method of sampling employed results in a specimen which is representative of the liquids released.
- 7.5.3 GASEOUS RADWASTE TREATMENT SYSTEM The GASEOUS RADWASTE TREATMENT SYSTEM is a system that is designed and installed to reduce radioactive gaseous effluents by collecting primary coolant system off gases and providing for decay for the purpose of reducing the total radioactivity prior to release to the environment.
- 7.5.4 LOWER LIMIT OF DETECTION (LLD) The LLD is the smallest concentration of radioactive material in a sample that will be detected with 95% probability, with 5% probability of falsely concluding that a blank observation represents a "real" signal.

For a particular measurement system (which may include radiochemical separation):

LLD =
$$\frac{4.66 \text{ Sb}}{\text{E * V * 2.22 * Y * exp}(-\lambda \Delta t)}$$

where

LLD is the lower limit of detection as defined above (as pCi per unit mass or volume);

Sb is the standard deviation of the background counting rate or of the counting rate of a blank sample as appropriate (as counts per minute);

E is the counting efficiency (as counts per transformations);

V is the sample size (in units of mass or volume);

2.22 is the number of transformations per minute per picocurie;

Y is the fractional radiochemical yield (when applicable);

 λ is the radioactive decay constant for the particular radionuclide; and

 Δt for plant effluents is the elapsed time between the midpoint of sample collection and time of counting.

It should be recognized that the LLD is defined as an <u>a priori</u> (before the fact) limit representing the capability of a measurement system and not as an <u>a posteriori</u> (after the fact) limit for a particular measurement.

7.5.5 MEMBER OF THE PUBLIC - MEMBER(S) OF THE PUBLIC shall include all persons who are not occupationally associated with the plant. This category does not include employees of the utility, its contractors, or vendors. Also excluded from this category are persons who enter the site to service equipment or to make deliveries. This category does include persons who use portions of the site for recreation, occupational, or other purposes not associated with the plant.

- 7.5.6 PURGE-PURGING PURGE OR PURGING is the controlled process of discharging air or gas from a confinement to maintain temperature, pressure, humidity, concentration or other operating condition, in such a manner that replacement air or gas is required to purify the confinement.
- 7.5.7 UNRESTRICTED AREA BOUNDARY The UNRESTRICTED AREA BOUNDARY shall be that line beyond which the land is neither owned, nor leased, nor otherwise controlled by the licensee.
- 7.5.8 SOURCE CHECK A SOURCE CHECK shall be the observation of channel upscale response when the channel sensor is exposed to a radioactive or LED source.
- 7.5.9 UNRESTRICTED AREA An UNRESTRICTED AREA shall be any area at or beyond the UNRESTRICTED AREA BOUNDARY, access to which is not controlled by the licensee for purposes of protection of individuals from exposure to radiation or radioactive materials, or any area within the UNRESTRICTED AREA BOUNDARY used for residential quarters or for industrial, commercial, institutional, and/or recreational purposes. The definition of UNRESTRICTED AREA used in implementing the Radiological Effluent Technical Specifications has been expanded over that in 10 CFR 100.3(a), but the unrestricted area does not include areas over water bodies. The concept of unrestricted areas, established at or beyond the UNRESTRICTED AREA BOUNDARY, is utilized in the Technical Specifications and the ODCM to keep levels of radioactive materials in liquid and gaseous effluents as low as is reasonably achievable, pursuant to 10 CFR 50.36a.
- 7.5.10 VENTILATION EXHAUST TREATMENT SYSTEM A VENTILATION EXHAUST TREATMENT SYSTEM is a system that is designed and installed to reduce radioactive material in particulate form in effluents by passing ventilation or vent exhaust gases through HEPA filters for the purpose of removing particulates from the gaseous exhaust stream prior to release to the environment. Engineered Safety Feature (ESF) atmospheric cleanup systems are not considered to be VENTILATION EXHAUST TREATMENT SYSTEM components.
- 7.5.11 VENTING VENTING is the controlled process of discharging air or gas from a confinement to maintain temperature, pressure, humidity, concentration or other operating condition, in such a manner that replacement air or gas is not provided or required during VENTING. Vent, used in system names, does not imply a VENTING process.

NOTES:

1. The following terms are defined in Section 1.1 of the Technical Specifications: CHANNEL CALIBRATION, CHANNEL CHECK, CHANNEL FUNCTIONAL TEST, OPERABLE-OPERABILITY.

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2. The following terms are defined in Section 7.1 of the Technical Requirements Manual: FUNCTIONAL-FUNCTIONALITY.

APPENDIX A

Technical Basis for Simplified Dose Calculations Liquid Effluent Releases

Overview

To simplify the dose calculation process, it is conservative to identify a controlling, dose-significant radionuclide and to use its dose conversion factor in the dose calculations. Using the total release (i.e., the cumulative activity of all radionuclides) and this single dose conversion factor as inputs to a one-step dose assessment yields a dose calculation method which is both simple and conservative.

Cs-134 is the controlling nuclide for the total body dose. It has the highest total body dose conversion factor for all the radionuclides listed in Table 2-6. Therefore, the use of its dose conversion factor in the simplified dose assessment method for evaluating the total body dose is demonstrably conservative.

The selection of the maximum organ dose conversion factor for use in the simplified calculation requires consideration of the prevalence of the radionuclides in the effluents. An examination of the Table 2-6 factor will show that the Nb-95 dose factor for the GI-LLI represents the highest value $(1.51E+06 \text{ mrem/hr per } \mu\text{Ci/ml})$; and the P-32 bone factor (1.39E+06) is similarly high. However, neither of these two radionuclides are of significance in the Davis-Besse effluents. Nb-95 is not typically measured in the liquid effluents and P-32 analyses are not even performed. (NRC has categorically determined that P-32 is not a significant radionuclide in liquid effluents from nuclear power plants and does not require the special radiochemical analyses needed for identification and quantification.) The next highest dose conversion factor is for Cs-134, liver, with a value of $7.09E+05 \text{ mrem/hr per } \mu\text{Ci/ml}$. Cs-134 is a prevalent radionuclide in the liquid effluents from Davis-Besse. Therefore, it is recommended that the Cs-134 liver dose conversion factor be used for the simplified maximum organ dose assessment.

Simplified Method

For evaluating compliance with the dose limits of Section 2.4.1, the following simplified equations may be used:

Total Body

$$D_{tb} = \frac{1.67E - 02 * VOL}{DF * Z} * A_{(Cs-134,tb)} * \Sigma C_{i}$$
(A-1)

where:

 D_{tb} = dose to the total body (mrem)

VOL = volume of liquid effluents released (gal)

DF = average Collection Box release flow (gal/min)

Z = 10, near field dilution

 $A_{(Cs-134,tb)}$ = 5.79E+05 mrem/hr per μ Ci/ml, the total body ingestion dose factor for Cs-134

 ΣC_i = total concentration of all radionuclides ($\mu Ci/ml$)

1.67E-02 = 1 hr/60 min

Substituting the values for Z and the Cs-134 total body dose conversion factor, the equation simplifies to:

$$D_{tb} = \frac{9.67E + 02*VOL}{DF} *\Sigma C_{i}$$
 (A-2)

Maximum Organ

$$D_{\text{max}} = \frac{1.67E - 02*VOL}{DF*Z} *A_{(Cs-134,liver)} *\Sigma C_{i}$$
 (A-3)

where:

 D_{max} = maximum organ dose (mrem)

 $A_{(Cs-134,liver)} = 7.09E+05$ mrem/hr per μ Ci/ml, the liver ingestion dose factor for Cs-134

Substituting the values for Z and the Cs-134 liver dose conversion factor, the equation simplifies to:

$$D_{\text{max}} = \frac{1.18E + 03*VOL}{DF} *\Sigma C_{i}$$
 (A-4)

Tritium should not be included in the simplified analysis dose assessment for liquid releases. The potential dose resulting from normal reactor releases of H-3 is relatively negligible. But, its relatively higher abundance would yield resulting simplified doses that would be overly conservative and unrealistic. Excluding tritium has essentially no impact on the conservative use of this recommended simplified method. Furthermore, the release of tritium is a function of operating history and is essentially unrelated to radwaste system operations.

APPENDIX B

Technical Basis for Effective Dose Factors Gaseous Effluent Releases

Overview

Dose evaluations for releases of gaseous radioactive effluents may be simplified by the use of an effective dose factor rather than radionuclide-specific dose factors. These effective dose factors are applied to the total radioactive release to approximate the various doses in the environment; i.e., the total body, gamma-air, and beta-air doses. The effective dose factors are based on the typical radionuclide distribution in the gaseous radioactive effluents. The approach provides a reasonable estimate of the actual doses since under normal operating conditions, minor variations are expected in the radionuclide distribution.

Determination of Effective Dose Factors

Effective dose factors are calculated by equations (B-1) through (B-4).

$$K_{\text{eff}} = \Sigma(K_i * f_i) \tag{B-1}$$

where:

 K_{eff} = the effective total body dose factor due to gamma emissions from all noble gases released (mrem/yr per μ Ci/m³),

 K_i = the total body dose factor due to gamma emissions from each noble gas radionuclide $_i$ released, from Table 3-5 (mrem/yr per μ Ci/m³), and

f_i = the fractional abundance of noble gas radionuclide i relative to the total noble gas activity.

$$(L + 1.1 M)_{eff} = \Sigma ((L_{ii} + 1.1 M_i) * f_i)$$
 (B-2)

where:

 $(L+1.1M)_{eff}$ = the effective skin dose factor due to beta and gamma emissions from all noble gases released (mrem/yr per μ Ci/m³), and

 $(L_i+1.1M_i)$ = the skin dose factor due to beta and gamma emissions from each noble gas radionuclide; released, from Table 3-5 (mrem/yr per μ Ci/m³).

$$M_{\text{eff}} = \Sigma (M_i * f_i)$$
 (B-3)

where:

 M_{eff} = the effective air dose factor due to gamma emissions from all noble gases released (mrad/yr per μ Ci/m³), and

 M_i = the air dose factor due to gamma emissions from each noble gas radionuclide i released, from Table 3-5 (mrad/yr per μ Ci/m³).

$$N_{\text{eff}} = \Sigma (N_i * f_i)$$
 (B-4)

where:

 N_{eff} = the effective air dose factor due to beta emissions from all noble gases released (mrad/yr per μ Ci/m³), and

 N_i = the air dose factor due to beta emissions from each noble gas radionuclide i released, from Table 3-5 (mrad/yr per μ Ci/m³).

Normally, past radioactive effluent data would be used for the determination of the effective dose factors. However, the releases of noble gases from Davis-Besse have been exceedingly insignificant. Therefore, in order to ensure overall conservatism in the modeling, the USAR estimate of radionuclide concentrations at the UNRESTRICTED AREA BOUNDARY (summarized in Table B-1) has been used as the initial typical distribution. The effective dose factors derived from this distribution are presented in Table B-2.

Application

To provide an additional degree of conservatism, a factor of 2.0 is introduced into the dose calculation when the effective dose factor is used. This conservatism provides additional assurance that the evaluation of doses by the use of a single effective dose factor will not significantly underestimate any actual doses in the environment.

For evaluating compliance with the dose limits of Technical Specification 5.5.3.e and 5.5.3.h, the following simplified equations may be used:

$$D\lambda = 2.0 * 3.17E - 08 * \chi / Q * M_{eff} * \Sigma Q_{i}$$
 (B-5)

and

$$D\beta = 2.0 * 3.17E - 08 * \chi / Q * N_{eff} * \Sigma Q_{i}$$
 (B-6)

where:

 $D\lambda$ = air dose due to gamma emissions for the cumulative release of all noble gases (mrad),

 $D\beta$ = air dose due to beta emissions for the cumulative release of all noble gases (mrad),

 χ/Q = atmospheric dispersion to the controlling unrestricted area boundary (sec/m³),

 $M_{\text{eff}} = 5.7E+02$, effective gamma-air dose factor (mrad/yr per μ Ci/m³),

 $N_{\text{eff}} = 1.1E+03$, effective beta-air dose factor (mrad/yr per μ Ci/m³),

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 Q_i = cumulative release for all noble gas radionuclides (μ Ci),

3.17E-08 = conversion factor (yr/sec), and

2.0 = conservatism factor to account for the variability in the effluent data.

Combining the constants, the dose calculation equations simplify to:

$$D\lambda = 3.61E - 05 * \chi / Q * \Sigma Q_i$$
 (B-5)

and

$$D\beta = 7.20E - 05 * \chi / Q * \Sigma Q_{i}$$
 (B-6)

The effective dose factors are used for the purpose of facilitating the timely assessment of radioactive effluent releases, particularly during periods when the computer or ODCM software may be unavailable to perform a detailed dose assessment.

Table B-1 Default Noble Gas Radionuclide Distribution* of Gaseous Effluents

Fraction of Total $(A_i/\Sigma A_i)$

Nuclide	Containment Vessel Purge	Station <u>Vent</u>	Waste Gas <u>Decay Tank</u>	<u>Total</u>
Ar-41	0.0003	0.004	0.004	0.003
Kr-85	0.12	0.012	0.034	0.06
Xe-131m	0.02	0.009	0.008	0.017
Xe-133m	0.005	0.011	0.011	0.008
Xe-133	0.86	0.94	0.92	0.83
Xe-135m		0.004	0.0034	0.06
Xe-135	<u>0.002</u>	<u>0.02</u>	<u>0.02</u>	<u>0.021</u>
Total	<u>1.0</u>	<u>1.0</u>	<u>1.0</u>	<u>1.0</u>

NOTE:

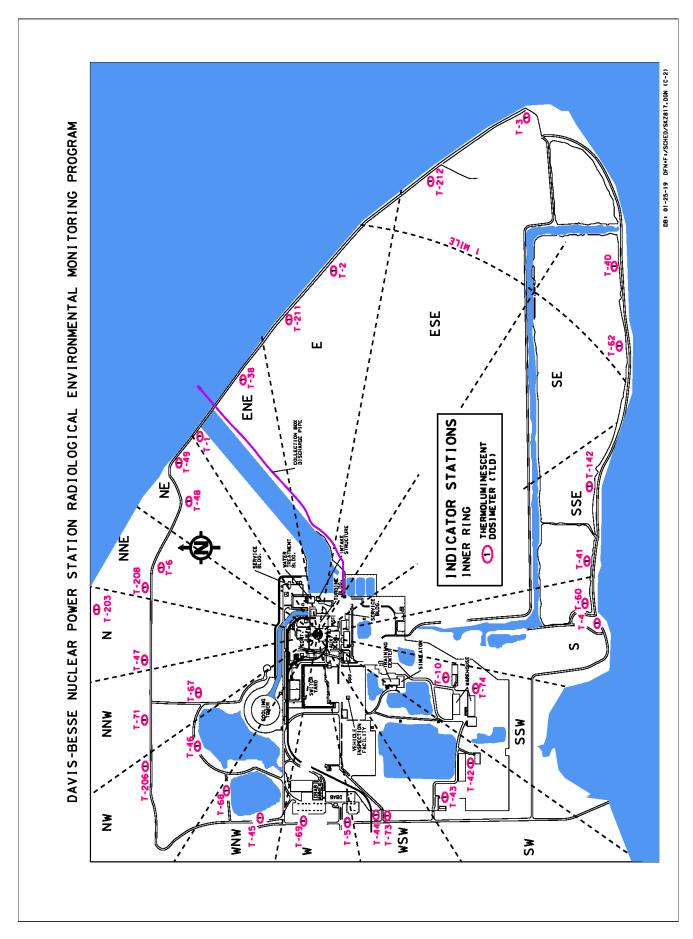
^{**} Data adapted from Davis-Besse USAR Section 11.3, Table 11.3-13 and Table 11.3-14. Kr-83m, Kr-85m, Kr-87, Kr-88 and Xe-138 have been excluded because of their negligible fractional abundance (i.e., < 1%).

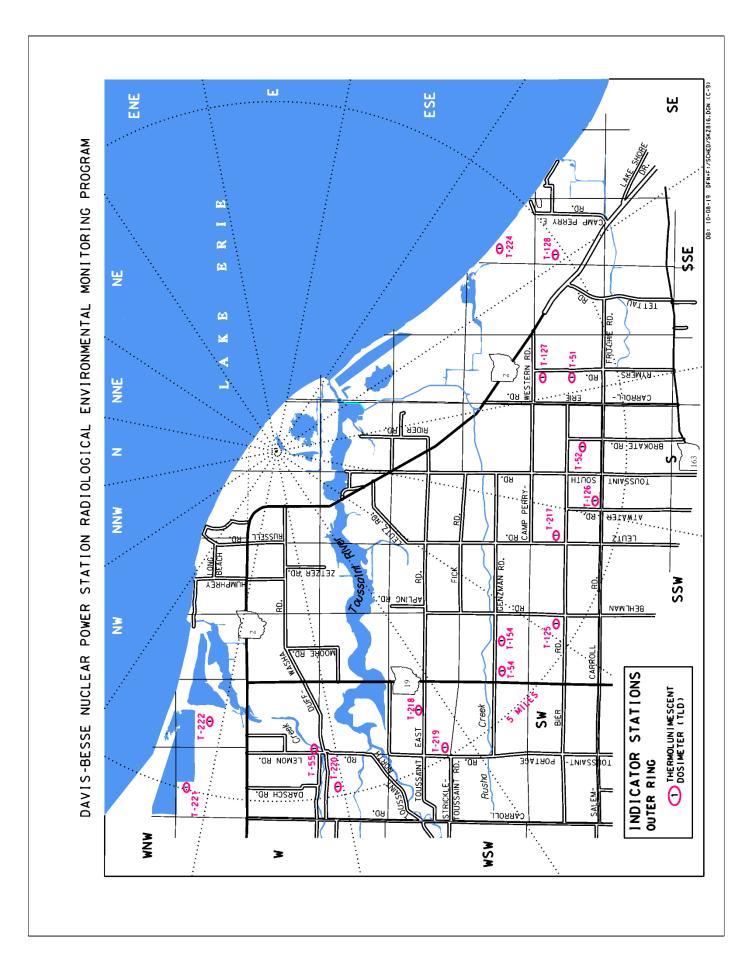
Table B-2 Effective Dose Factors - Noble Gas Effluents

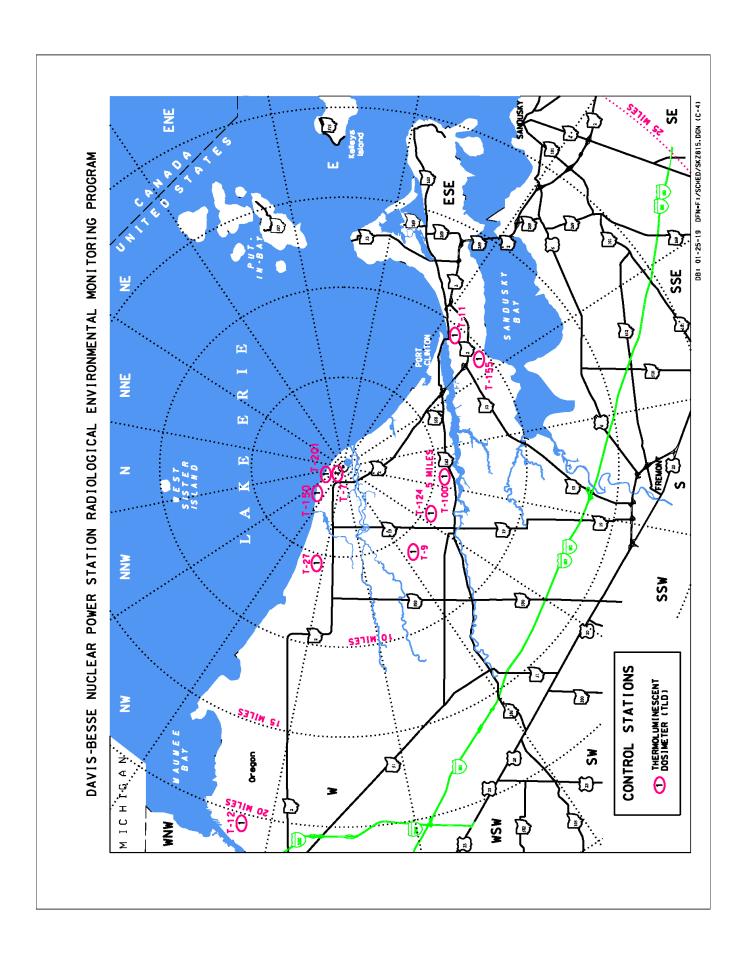
Isotope	Fractional Abundance	Total Body Dose Factor K _{eff} (mrem/yr per µCi/m³)	Skin Dose Factor (L+1.1M _{eff}) (mrem/yr per µCi/m³)	Gamma Air Dose Factor M _{eff} (mrad/yr per μCi/m³)	Beta Air Dose Factor N _{eff} (mrad/yr per μCi/m³)
Ar-41	0.003	2.65E+01	3.87E+01	2.79E+01	9.84E+00
Kr-85	0.06	9.96E-01	8.15E+01	1.03E+00	1.17E+02
Xe-131m	0.017	1.55E+00	1.10E+01	2.65E+00	1.88E+01
Xe-133m	0.008	2.00E+00	1.08E+01	2.61E+00	1.18E+01
Xe-133	0.83	2.44E+02	5.76E+02	2.93E+02	8.72E+02
Xe-135m	0.06	1.87E+02	2.64E+02	2.02E+02	4.43E+01
Xe-135	0.02	3.62E+01	7.94E+02	4.03E+01	5.16E+01
		<u> </u>			
TOTAL	1.0	4.98E+02	9.89E+02	5.69E+02	1.12E+03

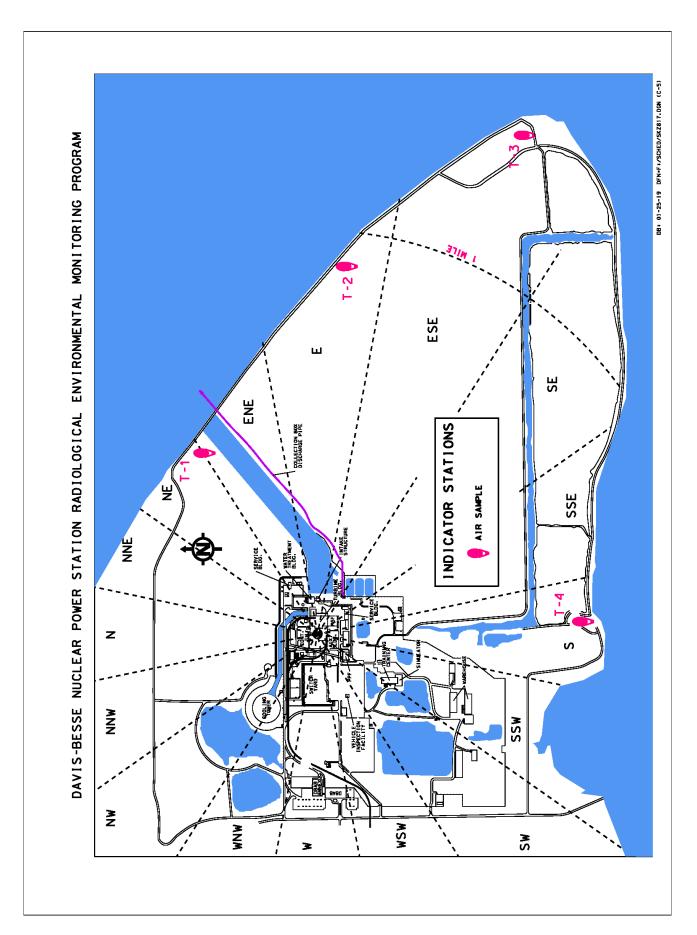
APPENDIX C

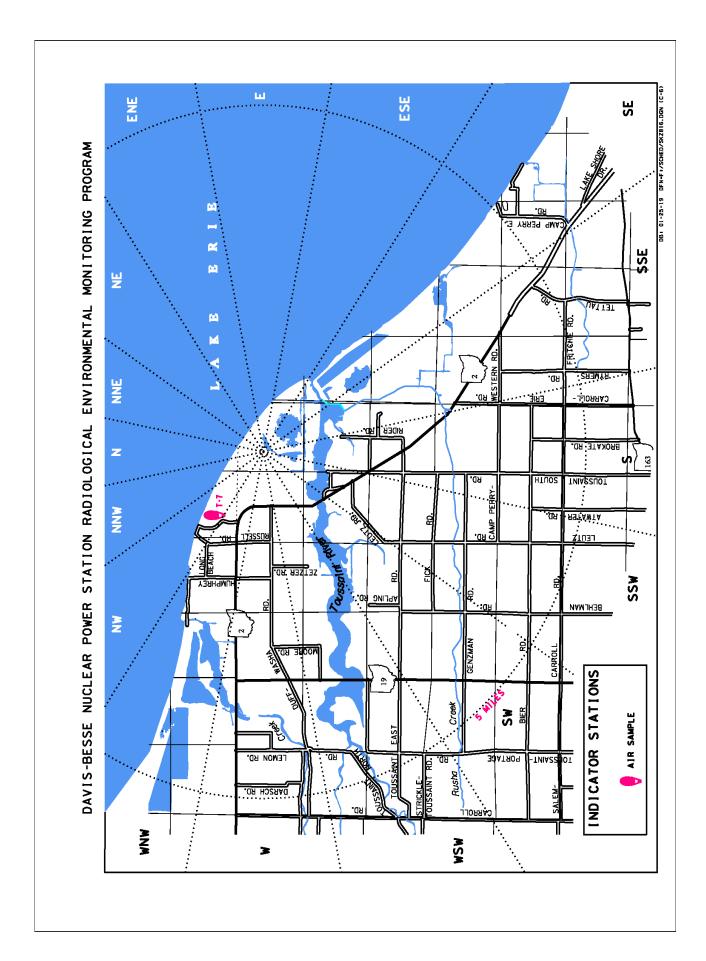
Radiological Environmental Monitoring Program Sample Location Maps

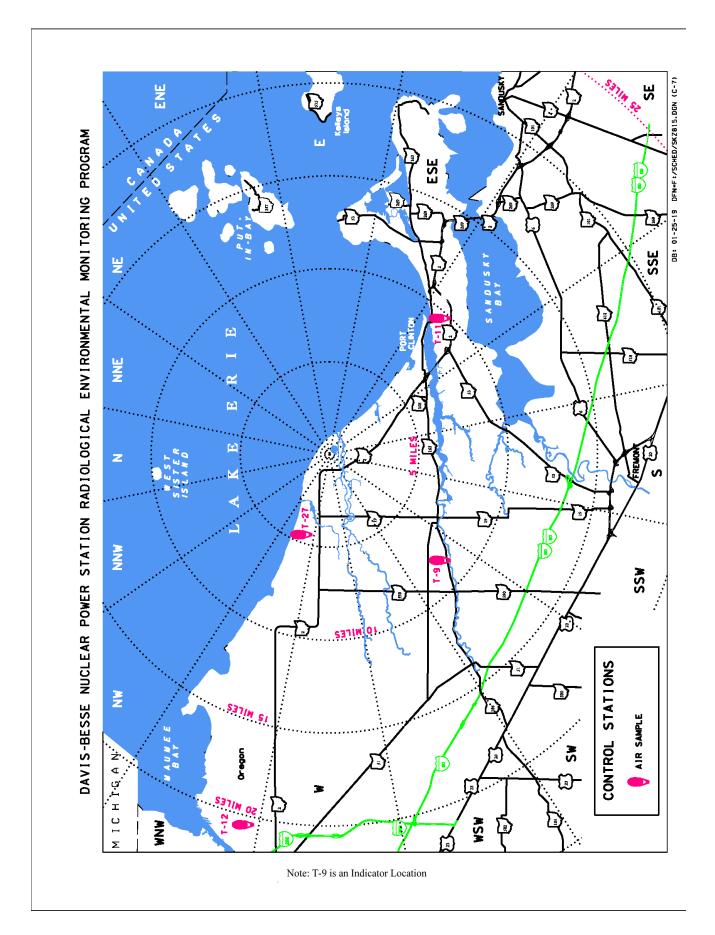


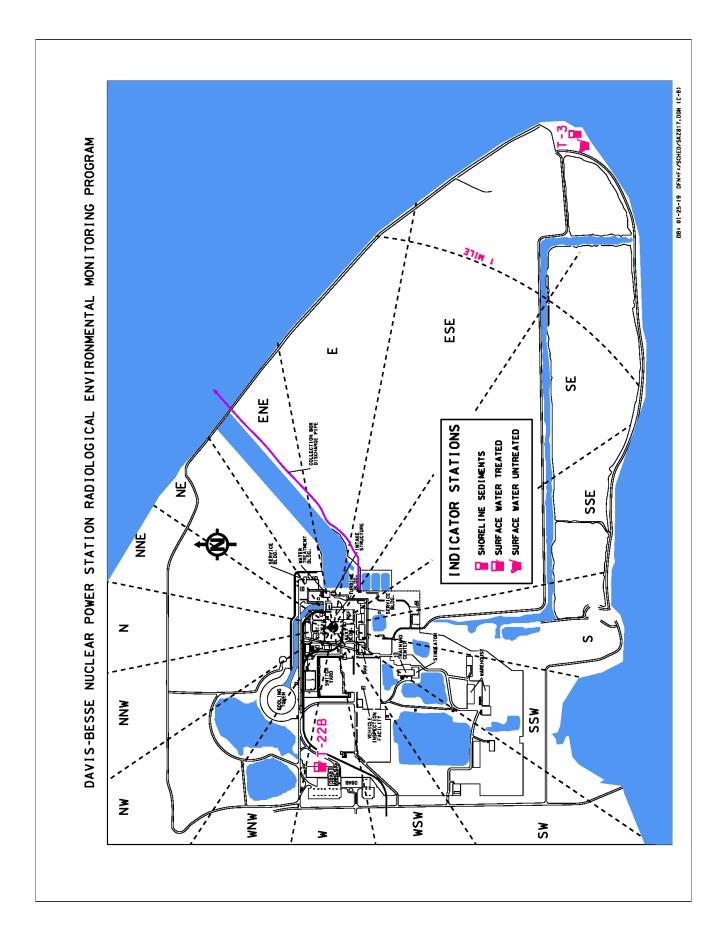


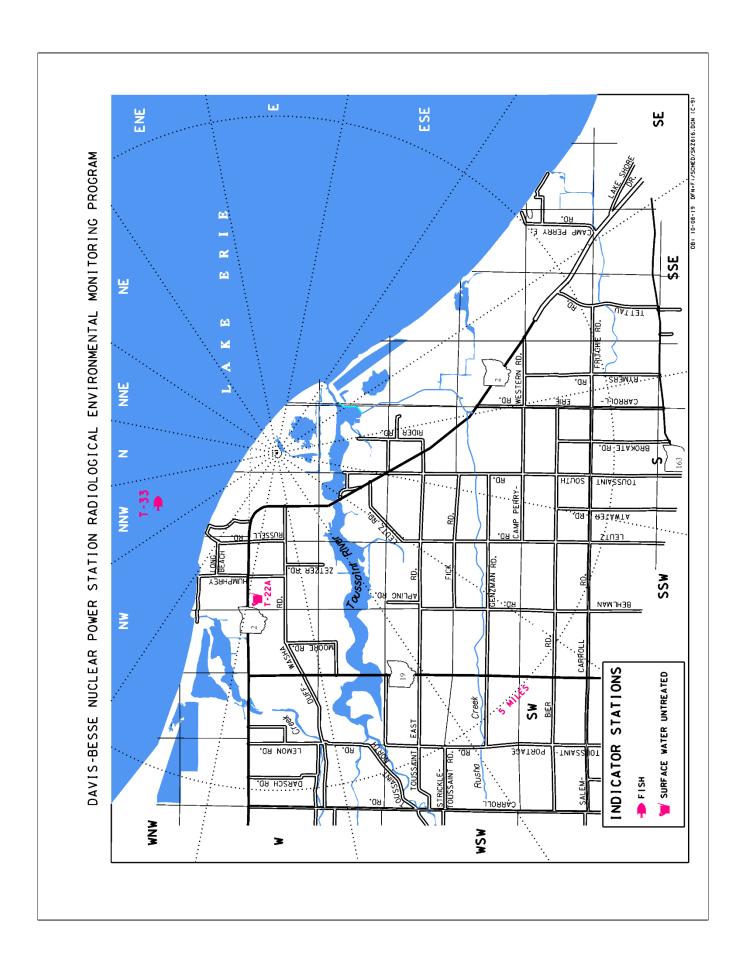


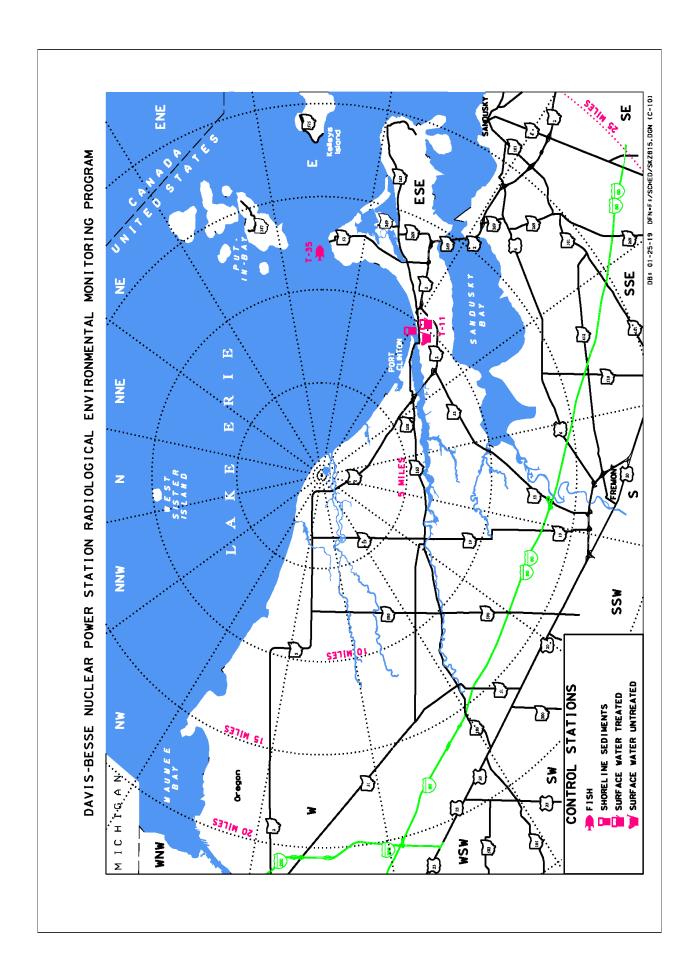


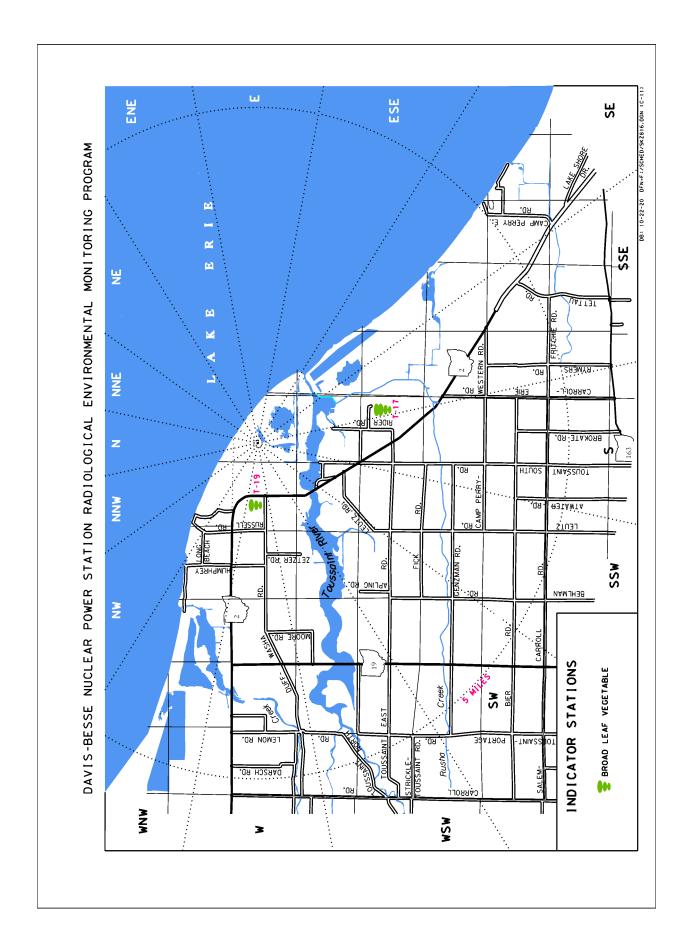


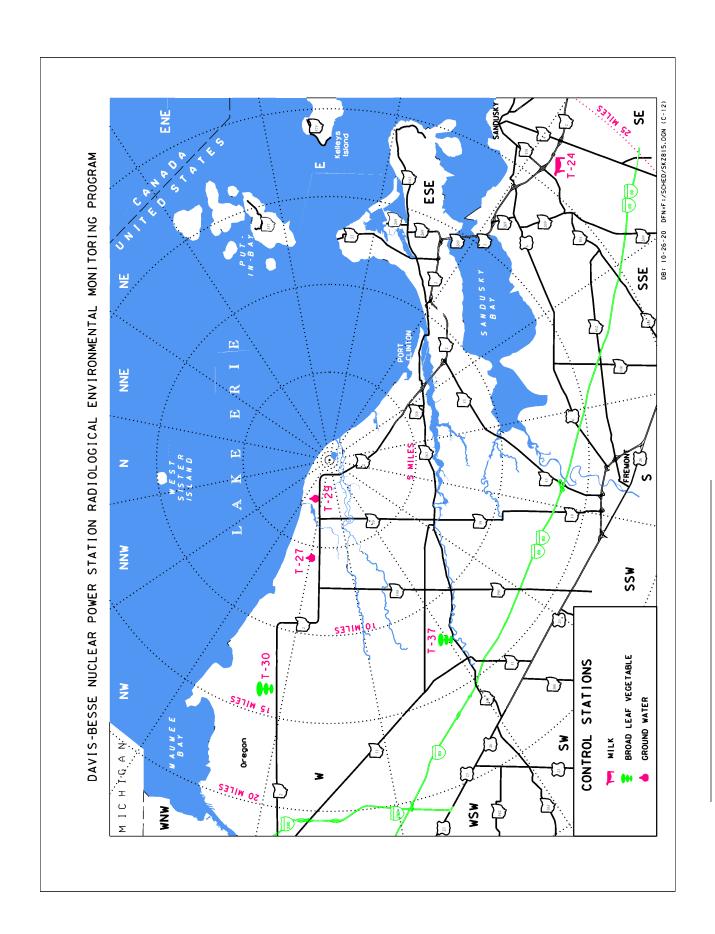












APPENDIX D

ODCM Subsections Related to Station Procedures

OVERVIEW

To ensure required alteration changes to the ODCM and implementing procedures are completed, the following ODCM subsections and the implementing procedures may be referenced as an aid.

2.0 LIQUID EFFLUENTS

2.1.1.a.i Clean Radwaste Effluent Monitors (RE-1770A & B)

DB-SC-03200 - Shift Channel Check of the Radiation Monitor System

DB-SC-03221 - Quarterly Functional Test of RE 1770A and/or RE 1770B, Clean Liquid Waste System Discharge Radiation Monitors

DB-MI-03401 - Channel Calibration of RE-1770A & B, RE-1878A & B, RE-4686 Liquid Process and RE-1822A & B Waste Gas System Outlet Radiation Monitors (UDR)

DB-OP-03011 - Radioactive Liquid Batch Release

2.1.1.a.ii Miscellaneous Radwaste Effluent Monitors (RE 1878A & B)

DB-SC-03200 - Shift Channel Check of the Radiation Monitor System

DB-SC-03222 - Quarterly Functional Test of RE 1878A and/or RE1878B, Miscellaneous Waste System Outlet Radiation Elements

DB-MI-03401 - Channel Calibration of RE-1770A & B, RE-1878A & B, RE-4686 Liquid Process and RE-1822A & B Waste Gas System Outlet Radiation Monitors (UDR)

DB-OP-03011 - Radioactive Liquid Batch Release

2.1.1.b.i Storm Sewer Drain line (RE-4686)

DB-SC-03200 - Shift Channel Check of the Radiation Monitor System

DB-SC-03224 - Quarterly Functional Test of RE 4686, Turbine Building/ Storm Sewer Discharge Radiation Monitor

DB-SC-03231 - Monthly Check Source Test of RE 4686, Turbine Building/ Storm Sewer Discharge Radiation Monitor

DB-MI-03401 - Channel Calibration of RE-1770A&B, RE-1878A & B, RE-4686 Liquid Process and RE-1822A & B Waste Gas System Outlet Radiation Monitors (UDR)

2.1.1.c.i Flow Indicator (FI) 1700 A&B

DB-MI-03423 - Channel Functional Test of 69D-ISF1700A Clean Waste Outlet 1.5" Flow

DB-MI-03424 - Channel Calibration of 69D-ISF1700A Clean Waste Outlet 1.5" Flow

DB-MI-03425 - Channel Functional Test of 69D-ISF1700B Clean Waste Outlet 3.0" Flow

DB-MI-03426 - Channel Calibration of 69D-ISF1700B Clean Waste Outlet 3.0" Flow

Flow Totalizer (FQI) 1700 A&B

DB-MI-03424 - Channel Calibration of 69D-ISF1700A Clean Waste Outlet 1.5" Flow DB-MI-03426 - Channel Calibration of 69D-ISF1700B Clean Waste Outlet 3.0" Flow

2.1.1.c.ii Flow Indicator (FI) 1887 A&B

DB-MI-03432 - Channel Calibration of 71C-ISF1887A Miscellaneous Waste Outlet 1.5" Flow

DB-MI-03434 - Channel Calibration of 71C-ISF1887B Miscellaneous Waste Outlet 3.0" Flow

Flow Totalizer (FQI) 1887 A&B

DB-MI-03432 - Channel Calibration of 71C-ISF1887A Miscellaneous Waste Outlet 1.5" Flow

DB-MI-03434 - Channel Calibration of 71C-ISF1887B Miscellaneous Waste Outlet 3.0" Flow

2.1.1.c.iii <u>F145(FT-840)</u>

DB-MI-03422 – Channel Functional/Calibration of 41C-ISF840, Cooling Tower Blowdown Flow

F890 Service Water Outflow (FT-2729)

DB-MI-03435 - Channel Functional Test of 20A-ISF2729, Service Water Outlet Flow to Collection Box

F200 Collection Box Dilution Flow (FT2799)

DB-MI-03437 - Channel Functional Test of 20A-ISF2799, Cooling Tower Makeup Pumps to Collection Box Flow

F886 Unit Dilution Pump Flow (FT3611)

DB-MI-03439 – Channel Functional Test of 20A-ISF3611 Dilution Pump Discharge Flow

2.1.2 Non Required Monitors

Component Cooling Water System (RE-1412 & RE-1413)

DB-SC-04178 - Quarterly Functional Test of RE 1412, Component Cooling Water Return Line to CC Pump 2 Radiation Monitor

DB-SC-04179 - Quarterly Functional Test of RE 1413, Component Cooling Water Return Line to CC Pump 1 Radiation Monitor

DB-SC-04187 - Daily Check of the Radiation Monitoring System

DB-MI-04501 - Channel Calibration of RE-1412 and RE-1413 Process Radiation Monitors

Service Water System (RE-8432)

DB-SC-04162 - Quarterly Functional Test of RE 8432, Service Water Discharge Radiation Monitor

DB-SC-04187 - Daily Check of the Radiation Monitoring System

DB-MI-04559 - Channel Calibration of RE-1998 (Failed Fuel), RE-8432, and RE-8434 Process Radiation Monitors (UDR)

Intake Forebay (RE-8434)

DB-SC-04164 - Quarterly Functional Test of RE 8434, Station Intake Forebay Radiation Monitor

DB-SC-04187 - Daily Check of the Radiation Monitoring System

DB-MI-04559 - Channel Calibration of RE-1998 (Failed Fuel), RE-8432, and RE-8434 Process Radiation Monitors (UDR)

2.2 <u>Sampling and Analysis of Liquid Effluents</u>

2.2.1 Batch Releases

Prior to Release (Grab sample of principal Gamma Emitters)

DB-OP-03011 - Radioactive Liquid Batch Release

Once Per Month (Dissolved and Entrained Gases)

DB-OP-03011 - Radioactive Liquid Batch Release

Once Per month (Composite Sample of H-3 and alpha activity)

DB-CN-03012 - Liquid Releases, Monthly Monitoring Analysis

Once Per Quarter (Composite sample of Sr-89, Sr-90 and Fe-55)

DB-CN-03013 - Liquid Releases, Quarterly Monitoring Analysis

2.2.2 <u>Continuous Releases</u>

North Settling Basin

DB-CN-04039 - North Settling Basin Weekly Sampling and Analysis

DB-CN-04040 - North Settling Basin Quarterly Analysis

Turbine Building Sump and Storm Sewer Drain

DB-CN-12005 - Storm Sewer Monitor (RE 4686) Inoperable/In Alarm

2.2.4	Borated Water Storage Tank DB-CH-03004 - Borated Water Storage Tank Analysis
2.3.3	<u>Liquid Radwaste Effluent Monitor Set Point Calculation - (RE1770A/B & RE 1878A/B)</u> DB-OP-03011 - Radioactive Liquid Batch Release
2.3.4	Storm Sewer Drain Monitor (RE-4686) Setpoint DB-HP-10000 - Radiation Monitor Setpoint Control
2.3.5	Alarm Setpoints for the Non-Required Radiation Monitors Component Cooling Water System (RE-8412, RE-8413) Service Water System (RE-8432) DB-HP-10000 - Radiation Monitor Setpoint Control
2.3.6	Alarm Response - Evaluating Actual Release Conditions DB-OP-03011 - Radioactive Liquid Batch Release RETSCode
2.4	<u>Liquid Effluent Dose Calculation – 10 CFR - 50</u> DB-CN-03001 - Liquid and Gaseous Radioactive Dose Commitment DB-OP-03011 - Radioactive Liquid Batch Release DB-CN-03023 - Annual Land Use Census
2.5	<u>Liquid Dose Projections</u> DB-OP-03011 - Radioactive Liquid Batch Release DB-CN-03001 - Liquid and Gaseous Radioactive Dose Commitment

3.0 GASEOUS EFFLUENTS

3.1.1 Alarm and Automatic Release Termination

Waste Gas Decay System Monitor (RE 1822A & B)

- DB-SC-03200 Shift Channel Check of the Radiation Monitor System
- DB-SC-03225 Quarterly Functional Test of RE 1822A and/or RE 1822B, Waste Gas System Discharge to Station Vent Radiation Monitors
- DB-MI-03401 Channel Calibration of RE-1770A & B, RE-1878A & B, RE-4686 Liquid Process and RE-1822A & B Waste Gas System Outlet Digital Radiation Monitors
- DB-OP-03012 Radioactive Gaseous Batch Release

Containment Purge Exhaust Filter Monitor (RE 5052A, B and C)

- DB-SC-03200 Shift Channel Check of the Radiation Monitor System
- DB-SC-03227 Quarterly Functional Test of RE 5052A, B, and C, CTMT Purge Exhaust Radiation Monitor
- DB-SC-03228 Monthly Check Source Test of RE 5052C, CTMT Purge Exhaust Radiation Monitor (Noble Gas Activity Channel).
- DB-MI-03415 Channel Calibration of RE-5052C, Containment Purge Exhaust Fan Inlet Digital Process Radiation Monitor
- DB-MI-03428 Channel Calibration of 72C-ISF1821 Waste Gas System Outlet 1.0" Flow
- DB-MI-04503 Channel Calibration of RE-5052A, RE-5327A & C, RE-5328A & C, RE-5403A & C, and RE5405A & C Process Radiation Monitors
- DB-MI-04514 Channel Calibration of RE-5052B, RE-5327B, RE-5328B, RE-5403B, and RE-5405B Process Radiation Monitors
- DB-RE-04503 Channel Calibration of RE-1003B, RE-5052A, RE-5403A & C Analog Process Radiation Monitors
- DB-RE-04514 Channel Calibration of RE-1003A, RE-5052B, and RE-5405B Digital Process Radiation Monitor

Gaseous Flow Measurement Devices (FT-1821)

- DB-MI-03428 Channel Calibration of 72C-ISF1821 Waste System Gas Outlet 1.0" Flow
- DB-SP-03419 Waste Gas System Flow Transmitters Quarterly Channel Functional Test

3.1.2 Alarm Only

Station Vent Monitor (RE 4598AA & BA)

- DB-SC-03200 Shift Channel Check of the Radiation Monitor System
- DB-SC-03216 Quarterly Functional Test of RE 4598AA, Station Vent Normal Range Radiation Monitor
- DB-SC-03218 Quarterly Functional Test of RE 4598BA, Station Vent Normal Range Radiation Monitor
- DB-SC-03229 Monthly Check Source Test of RE 4598AA, Station Vent Normal Range Radiation Monitor (Noble Gas Activity Channel)
- DB-SC-03230 Monthly Check Source Test of RE 4598BA Station Vent Normal Range Radiation Monitor (Noble Gas Activity Channel)
- DB-MI-03413 Channel Calibration of RE4598AA and RE4598BA Station Vent Normal Range Radiation Monitors

3.2 Sample and Analysis of Gaseous Effluents

3.2.1 Batch Releases

Prior to Batch Release
DB-OP-03012 - Radioactive Gaseous Batch Release

3.2.2 Continuous Releases

Once per week, analysis of an adsorption media for (I-131)

DB-CN-03008 - Station Vent Releases, Weekly Radiological Monitoring, Sampling and Analysis of RE 4598AA

DB-CN-03009 - Station Vent Releases, Weekly Radiological Monitoring Sampling and Analysis of RE 4598BA

Once per week, analysis for principal gamma emitters (Particulate Radioactive Material)

DB-CN-03008 - Station Vent Releases, Weekly Radiological Monitoring Sampling and Analysis of RE 4598AA

DB-CN-03009 - Station Vent Releases, Weekly Radiological Monitoring Sampling and Analysis of RE 4598BA

Once per month, grab gas sample analysis for (Noble Gas and Tritium)

DB-CN-03008 - Station Vent Releases, Weekly Radiological Monitoring Sampling and Analysis of RE 4598AA

DB-CN-03009 - Station Vent Releases, Weekly Radiological Monitoring Sampling and Analysis of RE 4598BA

Once per month, composite analysis for (Gross Alpha Activity)

DB-CN-03010 - Station Vent Releases, Monthly Radiological Monitoring Analysis

Once per quarter, composite analysis for particulates Sr-89 and Sr-90

DB-CN-03011 - Station Vent Releases, Quarterly Radiological Monitoring Analysis

Continuous monitoring for Noble Gas (Gross Beta and Gamma activity)

DB-OP-06131 - Gaseous Radioactive Waste System

DB-OP-06412 - Process and Area Radiation Monitor

3.2.3 Release Resulting from Primary to Secondary System Leakage

Once per week, analysis of a secondary system off - gas for gamma emitters (noble gases) and tritium.

DB-CH-04005 - Weekly Condenser Air Activity Sampling and Analysis

Once per week, analysis of condensate sample for principle gamma emitters (Iodines and particulates) and tritium.

DB-CH-06901 - Radiochemistry Test Requirements

Once per quarter, composite analysis of condensate for particulates Sr-89 and Sr-90 DB-CN-04038 - Radioactive Strontium Determination in Condensate

	Auxiliary Steam System Relief lifts when Auxiliary Boiler is the Source of Auxiliary Steam. DB-CH-06901 - Radiochemistry Test Requirements DB-CN-10102 - Calculating Radioactive Release Data RETSCode
3.3.2	Release Rate Limits DB-OP-03012 - Radioactive Gaseous Batch Release
3.3.3	Individual Release Radiation Monitor Setpoints DB-OP-03012 - Radioactive Gaseous Batch Release DB-HP-10000 - Radiation Monitor Setpoint Control
3.6.4	Quantifying Ground Level Releases Activity DB-CN-10102 - Calculating Radioactive Release Data
3.7.1	<u>Unrestricted Area Dose Limits</u> DB-CN-03001 - Liquid and Gaseous Radioactive Release Dose Commitment DB-CN-03011 - Station Vent Releases, Quarterly Radiological Monitoring Analysis
5.0	Assessment of Land Use Census Data DB-CN-03023 - Annual Land Use Census
6.0	Radiological Environmental Program DB-CN-00013 - Review and Evaluation of REMP Sample Analysis Results DB-CN-00014 - Annual Radiological Environmental Operating Report Preparation and Submittal DB-CN-00015 - Radiological Environmental Monitoring Program DB-CN-03004 - Radiological Monitoring Quarterly, Semiannual and Annual Sampling DB-CN-03005 - Radiological Monitoring Weekly, Semimonthly, and Monthly Sampling DB-HP-04022 - Preparation of Quarterly Report of REMP Sample Analysis Results
7.1	Annual Radiological Environmental Operating Report DB-CN-00012 - Preparation of Radioactive Effluent Release Report DB-CN-00014 - Annual Radiological Environmental Operating Report Preparation and Submittal DB-CN-03001 - Liquid and Gaseous Radioactive Dose Commitment DB-CN-04025 - Quarterly Radioactive Release Data Calculations DB-CN-10102 - Calculating Radioactive Release Data DB-CN-10106 - Processing Changes to the ODCM