Nebraska Public Power District
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NLS2026026
April 24, 2026

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-0001

Subject: Annual Radioactive Effluent Release Report
Cooper Nuclear Station, Docket No. 50-298, DPR-46

The purpose of this letter is to transmit to the Nuclear Regulatory Commission (NRC) the Cooper Nuclear Station (CNS) Annual Radioactive Effluent Release Report for the period January 1, 2025, through December 31, 2025. This report is enclosed. During this reporting period, there were no changes to the Offsite Dose Assessment Manual (ODAM) or the Process Control Program (PCP), and as such, copies of the ODAM and PCP are not being transmitted with this letter. This document is being submitted for NRC use per the requirements of Technical Specification 5.6.3 and CNS ODAM Section D 5.3.

This letter contains no regulatory commitments.

Should you have any questions or require additional information, please contact me at (402) 825-5058.

Sincerely,

Steve Nelson
Regulatory Affairs and Compliance Manager

/mk

Enclosure - Radioactive Effluent Release Report January 1, 2025 through December 31, 2025

cc: Regional Administrator w/ enclosure
USNRC - Region IV

Cooper Project Manager w/ enclosure
USNRC - NRR Plant Licensing Branch IV

NPG Distribution w/o enclosure

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CNS Records w/ enclosure

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NLS2026026
Enclosure

Enclosure

Radioactive Effluent Release Report
January 1, 2025 through December 31, 2025

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

RADIOACTIVE EFFLUENT RELEASE REPORT

January 1, 2025 through December 31, 2025

USNRC Docket 50-298

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INTRODUCTION

This report summarizes meteorological data and doses from radioactive effluents for the Cooper Nuclear Station for the period January through December, 2025. The data presented is consistent with guidance provided in Regulatory Guide 1.21 of the U.S. Nuclear Regulatory Commission (Revision 1, 1974) for reporting meteorological data and radioactive effluent data.

The report is organized into four parts. Appendix A presents the effluent and waste disposal source term data. Appendix B presents a summary of onsite meteorological data for the report period, including atmospheric diffusion estimates and a description of the atmospheric diffusion model. Appendix C presents the doses from liquid and gaseous radioactive effluents. Descriptions of the dose calculation models are also included. Appendix D presents the latest groundwater report.

APPENDIX A

SOURCE TERMS

EFFLUENT AND WASTE DISPOSAL REPORTS

SUPPLEMENTAL INFORMATION

EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT

January 1, 2025 through December 31, 2025

Cooper Nuclear Station effluent and waste disposal data are presented in the format prescribed by Regulatory Guide 1.21. Meteorological data required by Table 4A&B of Regulatory Guide 1.21 is included in the Meteorological Section of the Annual Radioactive Material Release Report - Radioactive Effluents.

Facility Cooper Nuclear Station License DPR-46.

A. Regulatory Limits

1. Gaseous Waste Effluents

a. The dose rates due to radioactive materials released in gaseous effluents offsite shall be limited to the following:

1. Noble Gases: Less than or equal to 500 mrem/yr to the total body and less than or equal to 3000 mrem/yr to the skin.

2. I-131, I-133, tritium, and all radionuclides in particulate form with half-lives greater than or equal to 8 days: Less than or equal to 1500 mrem/yr to any organ.

b. The air dose due to noble gases released in gaseous effluents offsite shall be limited to the following:

1. During any calendar quarter: Less than or equal to 5 mrad from gamma radiation and less than or equal to 10 mrad from beta radiation.

2. During any calendar year: Less than or equal to 10 mrad from gamma radiation and less than or equal to 20 mrad from beta radiation.

c. The dose to a member of the public due to I-131, I-133, and radioactive materials in particulate form with half-lives greater than 8 days in gaseous effluents offsite shall be limited to the following:

1. During any calendar quarter: Less than or equal to 7.5 mrem to any organ.

2. During any calendar year: Less than or equal to 15 mrem to any organ.

2. Liquid Waste Effluents

a. January 1, 2025 through December 31, 2025

The concentration of radioactive material in water offsite due to radioactive liquid effluents shall not exceed the concentration specified in 10 CFR 20 Part 20.1302 for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the concentration shall not exceed 2×10^{-4} uCi/ml total activity. (CNS Technical Specification Amendment 174 Implementation)

b. The dose to a member of the public due to radioactive material in liquid effluents offsite shall be limited to the following:

1. During any calendar quarter: Less than or equal to 1.5 mrem to the total body and less than or equal to 5 mrem to any organ.

2. During any calendar year: Less than or equal to 3 mrem to the total body and less than or equal to 10 mrem to any organ.

B. Maximum Permissible Concentrations

1. Water: Covered in Section A.2.

2. Air: Covered in Section A.1.

C. Average Energy

The average energy (E) of the radionuclide mixtures of fission and activation gases released is not applicable. This information is not utilized for dose or release calculations.

D. Measurements and Approximations of Total Radioactivity

The methods used to measure or approximate the total radioactivity in effluents and to determine radionuclide composition are as follows:

1. Gaseous Effluents

a. Fission and Activation Gases:

Radioactivity and radionuclide composition is determined by laboratory HPGe detector analysis in correlation with continuous gross radioactivity monitoring by a beta scintillation detector in the release pathway.

b. Iodines:

Charcoal cartridges provide continuous sample collection. These cartridges are analyzed for radioactivity and radionuclide composition in the laboratory by a HPGe detector gamma spectrometer.

c. Particulates:

Particulate filters provide continuous sample collection. These filters are analyzed for radioactivity and radionuclide composition in the laboratory by a HPGe detector gamma spectrometer. An aliquot of a filter composite from each release point was analyzed for Sr-89, Sr-90, and gross alpha by an offsite laboratory.

d. Tritium:

A portable sampling apparatus is utilized to collect a quarterly sample of each radioactive vent effluent. These samples are analyzed using a liquid scintillation counter.

e. Carbon-14:

Carbon-14 source term was estimated using 2025 plant operational data and applying the methodology outlined in EPRI Technical Report 1021106 (EPRI, 2010).

2. Liquid Effluents

a. Principal gamma emitters and dissolved and entrained gases:

Each batch of liquid effluent is analyzed for radioactivity and radionuclide composition in the laboratory by a HPGe detector gamma spectrometer. In addition, each batch is monitored for gross gamma radioactivity by a NaI detector in-line with the release pathway.

b. Tritium:

An aliquot of a monthly composite is analyzed using a liquid scintillation counter.

c. Sr-89 and Sr-90:

An aliquot from a quarterly composite is analyzed by an offsite laboratory.

d. Gross alpha:

An aliquot from a monthly composite is analyzed by an offsite laboratory.

e. Fe-55:

An aliquot from a quarterly composite is analyzed by an offsite laboratory.

E. Batch Releases

a. Liquid

1.	Number of batch releases	0	
2.	Total time period for batch releases	0	minutes
3.	Maximum time period for batch release	0	minutes
4.	Average time period for batch release	0	minutes
5.	Minimum time period for batch release	0	minutes
6.	Average stream flow during periods of release of effluent into a flowing stream	NA	liters/minute
7.	Total activity released	0	Ci

b. Gaseous

1.	Number of batch releases	0	
2.	Total time period for batch releases	0	minutes
3.	Maximum time period for batch release	0	minutes
4.	Average time period for batch release	0	minutes
5.	Minimum time period for batch release	0	minutes

F. Abnormal Release

a. Liquid

1.	Number of releases:	0	
2.	Total activity released	0	Ci

b. Gaseous

1.	Number of releases:	0	
2.	Total activity released	0	Ci

TABLE 1A
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

		UNIT	1st QTR	2nd QTR	3rd QTR	4th QTR	EST. TOTAL ERROR %
A.	Fission and activation gases						
	1. Total release	Ci	2.10E+00	1.18E+00	1.28E+00	1.27E+00	2.0E+01
	2. Average release rate for period	μCi/sec	2.70E-01	1.50E-01	1.61E-01	1.60E-01	
B.	Iodines						
	1. Total iodine 131	Ci	2.92E-06	5.12E-06	6.20E-06	5.94E-06	3.0E+01
	2. Average release rate for period	μCi/sec	3.76E-07	6.51E-07	7.80E-07	7.47E-07	
C.	Particulates						
	1. Particulates with half-lives >8 days	Ci	4.90E-06	7.98E-06	1.86E-05	1.66E-05	5.0E+01
	2. Average release rate for period	μCi/sec	6.31E-07	1.01E-06	2.33E-06	2.09E-06	
	3. Gross alpha radioactivity	Ci	1.44E-06	9.61E-07	3.67E-06	1.35E-06	
D.	Tritium						
	1. Total release	Ci	4.60E-01	1.33E+00	2.89E+00	2.12E+00	3.0E+01
	2. Average release rate for period	μCi/sec	5.92E-02	1.69E-01	3.64E-01	2.67E-01	
E.	Carbon-14						
	1. Total release	Ci	2.98E+00	3.02E+00	3.05E+00	3.05E+00	NA
	2 Release Rate	μCi/sec	3.84E-01	3.84E-01	3.84E-01	3.84E-01	

TABLE 1B
EFFLUENT AND GASEOUS WASTE DISPOSAL ANNUAL REPORT
GASEOUS EFFLUENT-ELEVATED RELEASE
CONTINUOUS MODE *BATCH

	NUCLIDES RELEASED	UNIT	1st QTR	2nd QTR	3rd QTR	4th QTR
1.	Fission gases					
	argon-41	Ci	1.38E+00	6.41E-01	3.57E-01	2.89E-01
	krypton-83m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	krypton-85m	Ci	2.48E-01	2.07E-01	1.80E-01	1.85E-01
	krypton-85	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	krypton-87	Ci	0.00E+00	0.00E+00	0.00E+00	7.94E-02
	krypton-88	Ci	3.16E-01	2.11E-01	1.73E-01	2.70E-01
	krypton-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-131m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-133m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-133	Ci	1.58E-01	9.15E-02	2.03E-01	1.44E-01
	xenon-135m	Ci	0.00E+00	1.82E-02	8.97E-02	8.45E-02
	xenon-135	Ci	0.00E+00	8.14E-03	9.83E-03	7.60E-02
	xenon-137	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-138	Ci	0.00E+00	0.00E+00	2.66E-01	1.42E-01
	Total for period	Ci	2.10E+00	1.18E+00	1.28E+00	1.27E+00
2.	Iodines					
	iodine-131	Ci	2.92E-06	5.12E-06	6.20E-06	5.94E-06
	iodine-132	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	iodine-133	Ci	8.74E-06	1.73E-05	2.50E-05	2.26E-05
	iodine-134	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	iodine-135	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total for period	Ci	1.17E-05	2.24E-05	3.12E-05	2.85E-05

* No batch discharges were made

TABLE 1B
EFFLUENT AND GASEOUS WASTE DISPOSAL ANNUAL REPORT
GASEOUS EFFLUENT-ELEVATED RELEASE (CONTINUED)
CONTINUOUS MODE *BATCH

	NUCLIDES RELEASED	UNIT	1st QTR	2nd QTR	3rd QTR	4th QTR
3.	Particulates					
	sodium-24	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	chromium-51	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	manganese-54	Ci	0.00E+00	4.02E-08	0.00E+00	0.00E+00
	manganese-56	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	iron-59	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	cobalt-58	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	cobalt-60	Ci	1.13E-07	7.02E-07	1.18E-07	1.48E-07
	zinc-65	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	zinc-69	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	rubidium-88	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	rubidium-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	strontium-89	Ci	6.03E-08	1.27E-07	1.32E-07	2.09E-07
	strontium-90	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	strontium-91	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	yttriuim-91m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	yttriuim-93	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	niobium-95	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	ruthenium-103	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	silver-110m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	antimony-124	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	antimony-125	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	tellurium-132	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	cesium-137	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	cesium-138	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	barium-139	Ci	0.00E+00	0.00E+00	5.58E-04	1.78E-04
	barium-140	Ci	1.54E-04	1.91E-04	4.03E-04	1.82E-04
	lanthanum-140	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	cerium-144	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	praesodymium-144	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total for period	Ci	1.54E-04	1.92E-04	9.61E-04	3.60E-04
	Total for period with >8d half life	Ci	1.73E-07	8.69E-07	2.50E-07	3.57E-07

* No batch discharges were made

TABLE 1C
EFFLUENT AND GASEOUS WASTE DISPOSAL ANNUAL REPORT
GASEOUS EFFLUENT-BUILDING VENT RELEASE
CONTINUOUS MODE *BATCH

	NUCLIDES RELEASED	UNIT	1st QTR	2nd QTR	3rd QTR	4th QTR
1.	Fission gases					
	krypton-83m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	krypton-85m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	krypton-85	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	krypton-87	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	krypton-88	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	krypton-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-131m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-133m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-133	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-135m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-135	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-137	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	xenon-138	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total for period	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
2.	Iodines					
	iodine-131	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	iodine-132	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	iodine-133	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	iodine-134	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	iodine-135	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total for period	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00

* No batch discharges were made.

TABLE 1C
EFFLUENT AND GASEOUS WASTE DISPOSAL ANNUAL REPORT
GASEOUS EFFLUENT-BUILDING VENT RELEASE (CONTINUED)
CONTINUOUS MODE *BATCH

	NUCLIDES RELEASED	UNIT	1st QTR	2nd QTR	3rd QTR	4th QTR
3.	Particulates					
	sodium-24	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	chromium-51	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	manganese-54	Ci	0.00E+00	0.00E+00	0.00E+00	8.43E-08
	manganese-56	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	cobalt-57	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	cobalt-58	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	iron-59	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	cobalt-60	Ci	4.73E-06	7.11E-06	1.83E-05	1.62E-05
	zinc-65	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	rubidium-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	strontium-89	Ci	0.00E+00	0.00E+00	0.00E+00	1.03E-07
	strontium-90	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	strontium-91	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	strontium-92	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	yttrium-91m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	niobium-95	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	technetium-99m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	ruthenium-103	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	silver-110m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	antimony-124	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	cesium-137	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	cesium-138	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	barium-139	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	barium-140	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	lanthanum-140	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	cerium-141	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	cerium-144	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	praseodymium-144	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
	Total for period	Ci	4.73E-06	7.11E-06	1.83E-05	1.63E-05
	Total for period >8 day half life	Ci	4.73E-06	7.11E-06	1.83E-05	1.63E-05

* No batch discharges were made

TABLE 2A
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

		UNIT	1st QTR	2nd QTR	3rd QTR	4th QTR	EST. TOTAL ERROR %
A.	Fission and activation products						
	1. Total release (not including tritium, gases or alpha)	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.0E+01
	2. Average diluted concentration during period	μCi/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
B.	Tritium						
	1. Total release	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.0E+01
	2. Average diluted concentration during period	μCi/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
C.	Dissolved and entrained gases						
	1. Total release	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.0E+01
	2. Average diluted concentration during period	μCi/ml	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
D.	Gross alpha radioactivity						
	1. Total release	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.0E+01
E.	Volume of waste released (prior to dilution)	liters	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.0E+01
F.	Volume of dilution water used during period	liters	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.0E+01

TABLE 2B
EFFLUENT AND WASTE DISPOSAL ANNUAL REPORT
LIQUID EFFLUENTS (CONTINUED)
CONTINUOUS MODE *BATCH MODE

NUCLIDES RELEASED	UNIT	1st QTR	2nd QTR	3rd QTR	4th QTR
sodium-24	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
chromium-51	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
manganese-54	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
iron-55	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cobalt-57	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cobalt-58	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
iron-59	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cobalt-60	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
zinc-65	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
strontium-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
strontium-90	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
strontium-92	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
technetium-99m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
technetium-101m	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
antimony-124	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
iodine-131	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
iodine-133	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cesium-134	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cesium-137	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
cerium-144	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total for period	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
xenon-133	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
xenon-135	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00

* No continuous mode discharges were made

TABLE 3

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS
PERIOD: January 1, 2025 through December 31, 2025

A. Solid Waste Shipped Offsite for Burial or Disposal (Not Irradiated Fuel)

1. Type of Waste

		Unit	12 Month Period	Est. Total Error %
a.	Spent resins, filter sludges, evaporator bottoms, etc.	m^3	54.10	N/A
		Ci	5.99E+02	15%
b.	Dry compressible waste, contaminated equip, etc.	m^3	147.8	N/A
		Ci	4.10E+00	25%
c.	Irradiated components, control rods, etc.	m^3	0.00	N/A
		Ci	0.00E+00	N/A
d.	Other	m^3	0.00	N/A
		Ci	0.00E+00	N/A

2. Estimate of Major Nuclide Composition (By Type of Waste), Percent %

a. Resin

americium-241	2.61E-05	iron-55	2.77E+01
antimony-124	8.72E-05	iron-59	1.02E-01
antimony-125	5.19E-04	lanthanum-140	2.09E-04
barium-140	1.80E-04	maganese-54	5.88E+00
carbon-14	7.42E-02	nickel-63	1.75E+00
cesuim-134	7.48E-02	plutonium-238	3.62E-05
cesium-137	2.58E-01	plutonium-239	3.10E-05
chromium-51	5.04E-01	plutonium-241	3.21E-03
cobalt-57	7.77E-03	silver-110m	1.82E-01
cobalt-58	2.28E+00	strontium-89	1.05E-02
cobalt-60	5.40E+01	strontium-90	3.82E-03
curium-242	2.17E-05	tantalum-182	6.76E-02
curium-244	2.33E-05	technetium-99	4.87E-03
iodine-129	2.33E-03	tritium	6.13E-03
iodine-131	0.00E-00	zinc-65	7.15E+00

TABLE 3

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS (continued)
PERIOD: January 1, 2025 through December 31, 2025

b. DAW

americium-241	7.46E-04	krypton-85	4.78E-06
antimony-124	4.54E-02	manganese-54	4.88E+00
barium-133	2.90E-05	nickel-63	1.94E+00
carbon-14	2.81E-03	niobium-95	5.78E-02
cadmium-109	1.70E-04	plutonium-238	9.82E-05
cesium-137	9.61E-03	plutonium-239	8.16E-05
chromium-51	1.92E-00	plutonium-241	4.31E-01
cobalt-57	6.24E-06	silver-110m	1.92E-02
cobalt-58	6.73E-01	strontium-89	4.22E-03
cobalt-60	5.73E+01	strontium-90	4.80E-03
curium-242	4.48E-05	technetium-99	7.66E-04
curium-244	6.19E-05	tritium	1.12E-02
iodine-129	9.03E-05	zinc-65	1.27E+00
iron-55	3.10E+01	zirconium-95	2.74E-02

c N/A

TABLE 3

SOLID WASTE AND IRRADIATED FUEL SHIPMENTS (continued)
PERIOD: January 1, 2025 through December 31, 2025

3. Solid Waste Disposition

Number of Shipments	Mode of Transportation	Destination
11	Exclusive Use	UT
5	Exclusive Use	TN

4. Solidification Agent

None

B. Irradiated Fuel Shipments (Disposition)

Number of Shipments	Mode of Transportation	Destination
None	NA	NA

GASEOUS RADIOACTIVE WASTES
CUMULATIVE DOSE DATA

			1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Annual
A.	Maximum gamma air dose						
	Site boundary*		N	SE	N	N	N
	1. Total	mrad	1.31E-05	6.04E-06	7.71E-06	8.25E-06	5.53E-05
	Percent of Technical Specification						
	2. Limit		0.00%	0.00%	0.00%	0.00%	0.00%
	Most Exposed Resident*		NW	NW	NW	NW	NW
	1. Total	mrad	7.99E-05	1.72E-04	2.23E-04	1.03E-04	6.69E-04
	Percent of Technical Specification						
	2. Limit		0.00%	0.00%	0.01%	0.00%	0.01%
B.	Maximum beta air dose						
	Site boundary*		N	SE	N	N	N
	1. Total	mrad	4.45E-06	2.07E-06	3.08E-06	3.55E-06	2.04E-05
	Percent of Technical Specification						
	2. Limit		0.00%	0.00%	0.00%	0.00%	0.00%
	Most Exposed Resident*		NW	NW	NW	NW	NW
	1. Total	mrad	2.71E-05	5.89E-05	8.90E-05	4.43E-05	2.47E-04
	Percent of Technical Specification						
	2. Limit		0.00%	0.00%	0.00%	0.00%	0.00%
C.	Maximum organ dose due to I-131, I-133, and particulates (>8 day half lives)						
	Site boundary*		N	SE	N	N	N
	1. Total	mrem	2.42E-04	2.88E-04	1.39E-03	1.03E-03	3.00E-03
	Percent of Technical Specification						
	2. Limit		0.00%	0.00%	0.02%	0.01%	0.02%
	3. Organ		Thyroid	Thyroid	Thyroid	Thyroid	Thyroid
	4. Exposed Individual		Infant	Infant	Infant	Infant	Infant
	Most Exposed Resident*		NW	NW	NW	NW	NW
	1. Total	mrem	4.15E-05	3.28E-04	4.26E-04	2.84E-04	1.02E-03
	Percent of Technical Specification						
	2. Limit		0.00%	0.00%	0.01%	0.00%	0.01%
	3. Organ		Thyroid	Thyroid	Thyroid	Thyroid	Thyroid
	4. Exposed Individual		Infant	Infant	Infant	Infant	Infant

D. Maximum organ dose rate due to I-131, I-133, tritium, and particulates (>8 day half-lives) was 0.003 mrem/year which was 0.02% of the Technical Specification Limit.

E. All radioactive noble gas effluent monitors were set to automatically alarm when the monitor alarm set point, determined as specified in the Offsite Dose Assessment Manual (ODAM), was exceeded. This is required to ensure that the 500 mrem/yr to the total body and the 3000 mrem/yr to the skin limits are not exceeded.

**Resident and Site Boundary Key: N is 0.67 miles North, NW is 0.90 miles Northwest, NNE is 0.60 miles North-Northeast, and SE is 0.65 miles Southeast.*

GASEOUS RADIOACTIVE WASTES (Continued)
CUMULATIVE DOSE DATA

F. Maximum organ dose due to Carbon-14*		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Annual
1. Total	mrem	4.12E-01	5.32E-01	9.76E-01	6.58E-01	2.55E+00
2. Percent of Technical Specification Limit		4.12%	5.32%	9.76%	6.58%	12.76%
3. Organ	mrem	Bone	Bone	Bone	Bone	Bone
4. Exposed Individual		Child	Child	Child	Child	Child

*Maximum organ dose due to Carbon-14 is based on summation of organ dose pathways from the nearest garden, nearest meat animal, and nearest milk animal. Inhalation pathway was negligible.

LIQUID RADIOACTIVE WASTES
CUMULATIVE DOSE DATA

A. Maximum whole body dose		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Annual
1. Total	mrem	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
2. Percent of Technical Specification Limit		0.00%	0.00%	0.00%	0.00%	0.00%
B. Maximum Organ Dose						
1. Total	mrem	0.00E-00	0.00E-00	0.00E-00	0.00E-00	0.00E-00
2. Percent of Technical Specification Limit		0.00%	0.00%	0.00%	0.00%	0.00%

2025 ARERR SUPPLEMENTAL INFORMATION

A. Unplanned Releases, Leaks, or Spills:

None

B. District or CNS Initiated Changes to the Process Control Program:

None

C. Changes to the Offsite Dose Assessment Manual:

None

D. Reports Required by the CNS Offsite Dose Assessment Manual (ODAM):

1) The following is being reported per the requirements of ODAM Specification D3.3.2, Condition B, Required Action B.2.2:

a. Augmented Off Gas (AOG) Hydrogen Analyzer 'A' (AOG-AN-H_2A2024A) was nonfunctional from 2/13/2025 09:14 to 3/25/2025 12:11 (a period of 40.1 days). Prior to AOG Hydrogen Analyzer 'A' being restored to functional status, a modification was implemented to replace/upgrade associated AOG moisture analyzers (AOG-AN-MA2023A/B), which were necessary to calibrate AOG-AN-H_2A2024A. (CR-CNS-2025-00829, CR-CNS-2025-01442)

E. Errata Data

None

APPENDIX B

METEOROLOGY

CONTENTS

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MONTHLY SUMMARY TABLES OF HOURLY METEOROLOGICAL DATA	B6
JOINT FREQUENCY DISTRIBUTION TABLES	B130
ATMOSPHERIC DIFFUSION ESTIMATES	B239
ATMOSPHERIC DIFFUSION MODEL	B324

METEOROLOGICAL DATA SUMMARIES

Meteorological data collected onsite for the period January 1, 2025 through December 31, 2025, were reduced, validated, summarized for analysis, and included in appropriate dose calculations. Some adjustments were necessary during the validation of the data and they are discussed beginning on page B6. Hourly data summaries are provided for all pertinent parameters and for the joint frequency distributions (JFD's) of wind speed and wind direction by atmospheric stability class.

DATA RECOVERY

Data recovery statistics are provided in Table 1 for all pertinent meteorological parameters. Average data recovery for all parameters in 2025 exceeded 99.6%.

		Average Data Recovery
January 1 - March 31, 2025	(Q1)	99.8%
April 1 - June 30, 2025	(Q2)	99.9%
First Semiannual Period - January 1 - June 30, 2025	(SEM1)	99.9%
July 1 - September 30, 2025	(Q3)	99.9%
October 1 - December 31, 2025	(Q4)	98.8%
Second Semiannual Period - July 1 - December 31, 2025	(SEM2)	99.4%
Annual Period - January 1 - December 31, 2025	(ANN)	99.6%

WIND AT 100-METER LEVEL AND 10-METER LEVEL

	Predominant Wind Direction at 100m Level		Predominant Wind Direction at 10m Level	
Q1	North-northwest	14.4%	North-northwest	12.9%
Q2	South	11.3%	South	11.7%
SEM1	North-northwest	11.1%	North-northwest	11.5%
Q3	South-southeast	19.1%	South	17.9%
Q4	North-northwest	11.0%	South	14.5%
SEM2	South-southeast	14.6%	South	16.2%
ANN	South-southeast	12.1%	South	13.6%

	Mean Wind Speed at 100m Level	Mean Wind Speed at 10m Level
Q1	16.4 MPH	9.6 MPH
Q2	13.5 MPH	8.3 MPH
SEM1	15.0 MPH	8.9 MPH
Q3	9.9 MPH	5.5 MPH
Q4	13.9 MPH	8.0 MPH
SEM2	11.9 MPH	6.8 MPH
ANN	13.4 MPH	7.8 MPH

	Maximum Hourly Average Wind Speed/(Date at 100m Level)	Maximum Hourly Average Wind Speed/(Date at 10m Level)
Q1	50.7 MPH/(25/03/19)	35.6 MPH/(25/03/19)
Q2	45.7 MPH/(25/04/17)	34.5 MPH/(25/06/22)
SEM1	50.7 MPH/(25/03/19)	35.6 MPH/(25/03/19)
Q3	37.0 MPH/(25/07/07)	23.6 MPH/(25/07/07)
Q4	35.2 MPH/(25/12/18)	27.0 MPH/(25/12/18)
SEM2	37.0 MPH/(25/07/07)	27.0 MPH/(25/12/18)
ANN	50.7 MPH/(25/03/19)	35.6 MPH/(25/03/19)

TEMPERATURE AT 10-METER LEVEL

	Mean Hourly Average Temperature	Average Daily Maximum	Average Daily Minimum
Q1	33.1 Degrees F	43.0 Degrees F	22.9 Degrees F
Q2	64.9 Degrees F	74.3 Degrees F	55.0 Degrees F
SEM1	49.1 Degrees F	58.7 Degrees F	39.0 Degrees F
Q3	73.3 Degrees F	82.1 Degrees F	64.8 Degrees F
Q4	45.5 Degrees F	55.2 Degrees F	36.8 Degrees F
SEM2	59.6 Degrees F	68.7 Degrees F	50.8 Degrees F
ANN	54.4 Degrees F	63.7 Degrees F	45.0 Degrees F

	Maximum Temperature (Date)	Minimum Temperature (Date)
Q1	81.5 Degrees F (25/03/17)	-11.1 Degrees F (25/02/20)
Q2	98.0 Degrees F (25/06/20)	27.5 Degrees F (25/04/08)
SEM1	98.0 Degrees F (25/06/20)	-11.1 Degrees F (25/02/20)
Q3	94.2 Degrees F (25/09/13)	47.3 Degrees F (25/09/04)
Q4	88.5 Degrees F (25/10/03)	4.2 Degrees F (25/12/14)
SEM2	94.2 Degrees F (25/09/13)	4.2 Degrees F (25/12/14)
ANN	98.8 Degrees F (25/06/20)	-11.1 Degrees F (25/02/20)

PRECIPITATION

	Total Precipitation	Maximum Daily Precipitation Total/(Date)	Maximum Hourly Precipitation Total/(Date)
Q1	1.37 Inches	0.51 Inches (25/01/31)	0.16 Inches (25/01/31)
Q2	12.97 Inches	3.32 Inches (25/06/23)	1.44 Inches (25/06/23)
SEM1	14.34 Inches	3.32 Inches (25/06/23)	1.44 Inches (25/06/23
Q3	15.10 Inches	2.62 Inches (25/07/24)	0.98 Inches (25/08/06)
Q4	4.68 Inches	1.79 Inches (25/10/06)	0.40 Inches (25/10/05)
SEM2	19.78 Inches	2.62 Inches (25/07/24)	0.98 Inches (25/08/06)
ANN	34.12 Inches	3.32 Inches (25/06/23)	1.44 Inches (25/06/23)

ATMOSPHERIC STABILITY

Atmospheric stability is determined through classification of differential temperature data based on JFD of the 100-meter wind and the delta T (100m - 10m) stability data.

	Unstable Conditions Classes A-C	Neutral Conditions Class D	Stable Conditions Classes E-G
Q1	2%	52%	46%
Q2	9%	46%	45%
SEM1	5%	50%	45%
Q3	3%	41%	56%
Q4	1%	49%	50%
SEM2	2%	45%	53%
ANN	4%	47%	49%

TABLE 1. Meteorological Data Recovery

Data Recovery (% of total Observations)

	January-March 2025	April-June 2025	January-June 2025	July-Sept. 2025	October-Dec. 2025	July-Dec. 2025	January-Dec. 2025
100m wind speed	99.5	99.9	99.7	99.9	99.9	99.9	99.8
100m wind direction	99.0	99.9	99.4	99.9	99.9	99.9	99.7
100m ambient temperature	100.0	100.0	100.0	100.0	98.3	99.1	99.6
60m wind speed	100.0	100.0	100.0	100.0	99.9	99.9	99.9
60m wind direction	100.0	100.0	100.0	100.0	99.9	99.9	99.9
60m ambient temperature	100.0	100.0	100.0	99.9	98.7	99.3	99.7
10m wind speed	99.3	100.0	99.7	100.0	99.9	99.9	99.9
10m wind direction	99.3	100.0	99.7	100.0	99.9	99.9	99.8
10m ambient temperature	99.9	100.0	100.0	100.0	97.3	98.7	99.3
10m dew point	99.8	100.0	99.9	100.0	98.7	99.3	99.6
100m-10m delta T	99.9	100.0	100.0	100.0	97.3	98.7	99.3
100m-60m delta T	99.9	100.0	100.0	100.0	97.3	98.7	99.3
60m-10m delta T	99.9	100.0	100.0	99.9	97.3	99.3	99.3
Precipitation	99.9	100.0	100.0	100.0	98.6	99.3	99.6
100m JFD	100.0	100.0	100.0	100.0	97.3	98.7	99.3
10m JFD	99.3	100.0	99.6	100.0	97.3	98.6	99.1

JFD - Joint Frequency Distribution of wind speed, wind direction and atmospheric stability.

MONTHLY SUMMARY TABLES OF HOURLY METEOROLOGICAL DATA

The tables presented in this section provide a summary of hourly averages of measured meteorological parameters. The tables provide summaries by month for the annual period January through December, 2025. Summaries for the first quarter, second quarter, third quarter, fourth quarter, and semiannual periods are also provided. The parameters provided are listed below.

* 10 meter ambient temperature.

* Wind direction frequencies at 10 meters and 100 meters.

* Precipitation.

Any missing or non-measured data are indicated by a field of 9's.

10-Meter Ambient Temperature

and

10-Meter Dew Point Temperature

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 2025

MONTHLY HOUR AVERAGES FOR THE PERIOD

JANUARY

10.0 METER LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	31	22.3	31	18.1	31	83.3	31	3.1	31	21.1
2	30	21.0	30	16.7	30	83.4	30	2.9	30	19.8
3	31	21.3	30	16.3	30	83.2	30	2.9	30	19.4
4	31	20.9	30	15.9	30	83.2	30	2.8	30	19.0
5	31	20.6	30	16.0	30	84.5	30	2.8	30	18.8
6	31	20.0	30	15.4	30	84.5	30	2.8	30	18.3
7	31	19.1	31	16.2	31	87.4	31	2.9	31	18.4
8	31	18.5	31	15.9	31	88.7	31	2.9	31	17.9
9	31	18.7	31	15.2	31	85.2	31	2.8	31	17.9
10	31	20.6	31	15.4	31	79.7	31	2.8	31	19.3
11	31	23.2	31	16.3	31	75.0	31	2.9	31	21.3
12	31	25.8	31	16.4	31	68.0	31	2.9	31	23.0
13	31	27.7	31	15.9	31	62.1	31	2.8	31	24.1
14	31	29.0	31	16.0	31	59.2	31	2.8	31	25.0
15	31	30.1	31	16.6	31	58.6	31	2.9	31	25.8
16	31	30.5	31	17.0	31	58.9	31	2.9	31	26.2
17	31	30.3	31	17.3	31	60.1	31	3.0	31	26.1
18	31	28.6	31	18.0	31	65.5	31	3.0	31	25.3
19	31	26.6	31	18.5	31	72.1	31	3.1	31	24.1
20	31	25.2	31	18.6	31	76.3	31	3.1	31	23.3
21	31	24.6	31	18.8	31	78.6	31	3.2	31	22.9
22	31	24.2	31	18.7	31	79.8	31	3.2	31	22.6
23	31	23.5	31	18.7	31	81.7	31	3.2	31	22.1
24	31	22.7	31	18.6	31	83.8	31	3.2	31	21.6
HOURLY MEAN		24.0		16.9		75.9		3.0		21.8
AVG DAILY MAX		33.1		25.3		94.6		4.0		29.4
AVG DAILY MIN		15.4		10.2		53.3		2.2		14.5
ABSOLUTE MAX		56.7		43.5		100.0		7.5		45.3
ABSOLUTE MIN		-9.0		-15.4		37.2		.6		-9.6
TOTAL OBS		743		739		739		739		739

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 2025

MONTHLY HOUR AVERAGES FOR THE PERIOD

FEBRUARY

10.0 METER LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	28	23.7	28	19.4	28	84.1	28	3.5	28	22.2
2	28	23.2	28	19.0	28	84.1	28	3.4	28	21.8
3	28	22.2	28	18.5	28	85.2	28	3.4	28	21.0
4	28	21.6	28	18.4	28	86.8	28	3.3	28	20.6
5	28	21.1	28	18.2	28	87.5	28	3.3	28	20.2
6	28	20.3	28	18.1	28	89.5	28	3.3	28	19.7
7	28	19.7	28	17.4	28	89.8	28	3.3	28	19.1
8	28	19.6	28	17.2	28	89.3	28	3.2	28	18.9
9	28	20.7	28	17.4	28	86.1	28	3.2	28	19.8
10	28	23.3	28	17.9	28	80.1	28	3.3	28	21.6
11	28	25.8	28	18.2	28	73.8	28	3.4	28	23.3
12	28	27.9	28	18.1	28	67.9	28	3.3	28	24.6
13	28	29.8	28	18.4	28	64.2	28	3.3	28	25.9
14	27	31.7	28	18.7	27	61.1	27	3.4	27	27.3
15	28	32.2	28	19.2	28	60.4	28	3.4	28	27.6
16	28	32.9	28	19.7	28	60.5	28	3.5	28	28.2
17	28	33.1	28	20.2	28	61.5	28	3.5	28	28.4
18	28	32.2	28	21.0	28	65.7	28	3.7	28	28.1
19	28	30.2	28	21.5	28	71.4	28	3.7	28	27.0
20	28	28.5	28	21.2	28	74.7	28	3.7	28	25.9
21	28	27.3	28	20.7	28	76.8	28	3.7	28	25.0
22	28	26.3	28	20.2	28	78.3	28	3.6	28	24.3
23	28	25.8	28	20.0	28	79.2	28	3.5	28	23.8
24	28	24.9	28	19.8	28	81.3	28	3.5	28	23.2
HOURLY MEAN		26.0		19.1		76.7		3.4		23.6
AVG DAILY MAX		34.6		25.5		93.9		4.4		30.0
AVG DAILY MIN		16.7		12.2		56.1		2.6		15.9
ABSOLUTE MAX		66.3		51.2		100.0		9.8		53.8
ABSOLUTE MIN		-11.1		-16.2		27.1		.6		-11.6
TOTAL OBS		671		672		671		671		671

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 2025

MONTHLY HOUR AVERAGES FOR THE PERIOD

MARCH

10.0 METER LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	31	45.6	31	35.4	31	69.7	31	5.8	31	41.1
2	31	44.2	31	35.2	31	72.8	31	5.7	31	40.2
3	31	43.0	31	35.5	31	75.9	31	5.8	31	39.7
4	31	41.9	31	35.3	31	78.3	31	5.8	31	39.0
5	31	40.5	31	34.7	31	80.3	31	5.7	31	38.0
6	31	39.6	31	34.6	31	82.1	31	5.7	31	37.5
7	31	39.1	31	34.3	31	82.9	31	5.6	31	37.0
8	31	39.6	31	34.4	31	82.2	31	5.7	31	37.4
9	31	42.9	31	35.3	31	75.9	31	5.8	31	39.6
10	31	46.5	31	35.1	31	66.4	31	5.7	31	41.4
11	31	49.6	31	35.0	31	59.8	31	5.7	31	43.0
12	31	51.9	31	35.5	31	56.5	31	5.8	31	44.4
13	31	54.2	31	35.7	31	52.9	31	5.9	31	45.6
14	31	56.2	31	35.5	31	49.9	31	5.9	31	46.5
15	31	57.5	31	35.4	31	48.4	31	5.8	31	47.2
16	31	58.3	31	35.5	31	47.8	31	5.9	31	47.6
17	31	58.6	31	35.4	31	46.9	31	5.8	31	47.6
18	31	58.1	31	35.7	31	47.9	31	5.8	31	47.4
19	31	55.9	31	36.5	31	52.4	31	6.0	31	46.7
20	31	52.9	31	36.3	31	56.9	31	5.9	31	45.2
21	31	50.2	31	36.1	31	61.5	31	5.9	31	43.8
22	31	48.8	31	36.1	31	64.3	31	5.9	31	43.0
23	31	47.6	31	35.9	31	66.2	31	5.9	31	42.3
24	31	46.4	31	35.6	31	68.2	31	5.8	31	41.6
HOURLY MEAN		48.7		35.4		64.4		5.8		42.6
AVG DAILY MAX		60.5		41.7		87.9		7.3		49.8
AVG DAILY MIN		36.0		28.8		42.8		4.4		34.1
ABSOLUTE MAX		81.5		65.8		100.0		16.0		68.1
ABSOLUTE MIN		21.9		7.8		16.6		1.7		22.6
TOTAL OBS		744		744		744		744		744

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 2025

JAN-MAR HOUR AVERAGES FOR THE PERIOD

10.0 METER LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	90	30.8	90	24.5	90	78.9	90	4.1	90	28.4
2	89	29.7	89	23.9	89	79.9	89	4.1	89	27.5
3	90	29.1	89	23.7	89	81.3	89	4.1	89	27.0
4	90	28.4	89	23.4	89	82.6	89	4.0	89	26.5
5	90	27.6	89	23.2	89	84.0	89	4.0	89	25.9
6	90	26.9	89	22.9	89	85.2	89	4.0	89	25.4
7	90	26.2	90	22.8	90	86.6	90	4.0	90	25.0
8	90	26.1	90	22.7	90	86.6	90	3.9	90	24.9
9	90	27.7	90	22.8	90	82.3	90	4.0	90	25.9
10	90	30.4	90	22.9	90	75.2	90	4.0	90	27.6
11	90	33.1	90	23.3	90	69.4	90	4.0	90	29.4
12	90	35.5	90	23.5	90	64.0	90	4.0	90	30.9
13	90	37.5	90	23.5	90	59.6	90	4.0	90	32.1
14	89	39.3	90	23.5	89	56.5	89	4.1	89	33.2
15	90	40.2	90	23.9	90	55.6	90	4.1	90	33.7
16	90	40.8	90	24.2	90	55.6	90	4.1	90	34.2
17	90	40.9	90	24.4	90	56.0	90	4.1	90	34.2
18	90	39.9	90	25.0	90	59.5	90	4.2	90	33.8
19	90	37.8	90	25.6	90	65.1	90	4.3	90	32.8
20	90	35.8	90	25.5	90	69.1	90	4.3	90	31.7
21	90	34.2	90	25.4	90	72.2	90	4.3	90	30.8
22	90	33.3	90	25.2	90	74.0	90	4.2	90	30.1
23	90	32.5	90	25.0	90	75.6	90	4.2	90	29.6
24	90	31.6	90	24.8	90	77.6	90	4.2	90	29.0
HOURLY MEAN		33.1		24.0		72.2		4.1		29.6
AVG DAILY MAX		43.0		31.0		92.1		5.3		36.6
AVG DAILY MIN		22.9		17.2		50.5		3.1		21.7
ABSOLUTE MAX		81.5		65.8		100.0		16.0		68.1
ABSOLUTE MIN		-11.1		-16.2		16.6		.6		-11.6
TOTAL OBS		2158		2155		2154		2154		2154

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 2025

MONTHLY HOUR AVERAGES FOR THE PERIOD

APRIL

10.0 METER LEVEL

HOUR	TEMPERATURE NUMBER OBS	TEMPERATURE (DEG F)	DEW POINT NUMBER OBS	DEW POINT (DEG F)	RELATIVE HUM NUMBER OBS	RELATIVE HUM (%)	ABSOLUTE HUM NUMBER OBS	ABSOLUTE HUM (GM/M3)	WET BULB NUMBER OBS	WET BULB (DEG F)
1	30	52.2	30	44.2	30	75.5	30	8.2	30	48.5
2	30	51.5	30	43.9	30	76.4	30	8.1	30	48.1
3	30	50.5	30	43.5	30	77.5	30	8.0	30	47.3
4	30	49.7	30	43.4	30	79.4	30	7.9	30	46.9
5	30	49.0	30	43.7	30	82.2	30	8.1	30	46.7
6	30	48.2	30	43.3	30	83.1	30	7.9	30	46.0
7	30	47.9	30	43.4	30	84.2	30	8.0	30	45.9
8	30	49.3	30	44.2	30	82.6	30	8.2	30	47.0
9	30	51.8	30	44.6	30	77.2	30	8.3	30	48.5
10	30	54.3	30	44.5	30	71.5	30	8.3	30	49.7
11	30	56.3	30	44.0	30	66.0	30	8.1	30	50.4
12	30	58.2	30	43.8	30	61.7	30	8.1	30	51.2
13	30	60.0	30	43.7	30	58.2	30	8.0	30	52.0
14	30	61.5	30	43.6	30	55.3	30	8.0	30	52.6
15	30	62.5	30	43.6	30	53.7	30	8.0	30	53.1
16	30	63.3	30	43.6	30	52.5	30	8.0	30	53.5
17	30	63.8	30	43.6	30	52.0	30	8.0	30	53.7
18	30	63.6	30	43.8	30	52.9	30	8.1	30	53.8
19	30	62.6	30	44.4	30	55.5	30	8.3	30	53.6
20	30	60.1	30	44.8	30	60.2	30	8.4	30	52.6
21	30	57.8	30	44.7	30	64.2	30	8.3	30	51.5
22	30	56.4	30	44.9	30	67.2	30	8.4	30	51.0
23	30	55.3	30	45.1	30	70.5	30	8.5	30	50.5
24	30	53.9	30	45.3	30	73.8	30	8.5	30	49.9
HOURLY MEAN		55.8		44.1		68.1		8.1		50.2
AVG DAILY MAX		65.2		51.1		88.7		10.4		56.1
AVG DAILY MIN		46.6		37.6		47.0		6.3		43.9
ABSOLUTE MAX		85.3		71.2		100.0		19.2		73.3
ABSOLUTE MIN		27.5		15.0		21.2		2.3		25.4
TOTAL OBS		720		720		720		720		720

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 2025

MONTHLY HOUR AVERAGES FOR THE PERIOD

MAY

10.0 METER LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	31	58.5	31	53.6	31	84.0	31	10.8	31	55.9
2	31	57.3	31	53.4	31	86.4	31	10.8	31	55.3
3	31	56.3	31	53.4	31	89.1	31	10.8	31	54.8
4	31	55.5	31	53.5	31	91.0	31	10.8	31	54.4
5	31	54.7	31	53.3	31	92.8	31	10.8	31	54.0
6	31	54.1	31	52.9	31	93.3	31	10.6	31	53.5
7	31	55.0	31	52.9	31	91.4	31	10.6	31	53.9
8	31	57.9	31	53.4	31	84.7	31	10.7	31	55.5
9	31	61.3	31	53.2	31	75.6	31	10.6	31	56.8
10	31	64.6	31	52.9	31	67.6	31	10.4	31	58.1
11	31	67.2	31	52.0	31	60.9	31	10.0	31	58.7
12	31	69.0	31	51.4	31	56.4	31	9.8	31	59.1
13	31	70.5	31	50.9	31	53.0	31	9.6	31	59.5
14	31	71.6	31	50.7	31	51.0	31	9.5	31	59.8
15	31	72.3	31	50.6	31	50.2	31	9.5	31	60.1
16	31	72.7	31	50.6	31	49.9	31	9.5	31	60.2
17	31	72.6	31	50.6	31	49.7	31	9.5	31	60.2
18	31	72.3	31	50.9	31	50.9	31	9.6	31	60.2
19	31	71.3	31	51.6	31	53.8	31	9.9	31	60.1
20	31	68.5	31	52.1	31	59.4	31	10.1	31	59.3
21	31	65.5	31	52.5	31	65.6	31	10.3	31	58.3
22	31	63.1	31	53.0	31	71.7	31	10.6	31	57.6
23	31	61.5	31	53.3	31	76.1	31	10.7	31	57.0
24	31	59.9	31	53.7	31	80.9	31	10.8	31	56.5
HOURLY MEAN		63.9		52.4		70.2		10.3		57.4
AVG DAILY MAX		73.5		57.7		96.4		12.5		61.7
AVG DAILY MIN		52.9		47.7		46.3		8.6		52.0
ABSOLUTE MAX		87.6		73.0		100.0		20.3		74.5
ABSOLUTE MIN		41.7		39.6		21.3		6.0		42.5
TOTAL OBS		744		744		744		744		744

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 2025

MONTHLY HOUR AVERAGES FOR THE PERIOD

JUNE

10.0 METER LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	30	70.3	30	68.0	30	90.7	30	17.6	30	68.8
2	30	69.0	30	68.1	30	93.8	30	17.7	30	68.4
3	30	68.2	30	67.6	30	94.7	30	17.4	30	67.8
4	30	67.4	30	67.4	30	95.9	30	17.4	30	67.4
5	30	67.0	30	67.5	30	97.0	30	17.4	30	67.3
6	30	67.1	30	67.3	30	96.4	30	17.3	30	67.2
7	30	68.3	30	67.7	30	95.3	30	17.4	30	67.9
8	30	70.8	30	68.4	30	91.1	30	17.7	30	69.3
9	30	73.4	30	68.7	30	85.0	30	17.9	30	70.4
10	30	75.8	30	68.5	30	78.9	30	17.7	30	71.0
11	30	78.0	30	67.8	30	72.2	30	17.3	30	71.3
12	30	79.5	30	67.2	30	67.4	30	17.0	30	71.5
13	30	80.9	30	67.2	30	65.2	30	17.0	30	71.9
14	30	81.7	30	66.7	30	62.8	30	16.7	30	71.9
15	30	82.3	30	66.7	30	61.9	30	16.7	30	72.0
16	30	82.6	30	66.6	30	60.8	30	16.6	30	72.0
17	30	82.4	30	66.4	30	60.9	30	16.5	30	71.9
18	30	82.0	30	67.0	30	62.4	30	16.8	30	72.1
19	30	81.0	30	67.7	30	65.4	30	17.1	30	72.2
20	30	78.7	30	68.1	30	71.1	30	17.4	30	71.7
21	30	75.8	30	68.4	30	78.5	30	17.7	30	71.0
22	30	74.1	30	68.4	30	82.8	30	17.7	30	70.4
23	30	72.7	30	68.4	30	86.3	30	17.8	30	69.9
24	30	71.4	30	68.3	30	89.0	30	17.7	30	69.4
HOURLY MEAN		75.0		67.7		79.4		17.3		70.2
AVG DAILY MAX		84.1		71.6		98.4		19.7		74.0
AVG DAILY MIN		65.4		63.8		56.4		15.2		65.5
ABSOLUTE MAX		98.0		82.8		100.0		27.7		82.4
ABSOLUTE MIN		50.8		49.0		31.8		8.8		51.8
TOTAL OBS		720		720		720		720		720

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 2025

APR-JUN HOUR AVERAGES FOR THE PERIOD

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	91	60.3	91	55.2	91	83.4	91	12.2	91	57.7
2	91	59.3	91	55.1	91	85.5	91	12.2	91	57.2
3	91	58.3	91	54.8	91	87.1	91	12.0	91	56.6
4	91	57.5	91	54.8	91	88.8	91	12.0	91	56.2
5	91	56.9	91	54.8	91	90.7	91	12.0	91	56.0
6	91	56.4	91	54.5	91	91.0	91	11.9	91	55.5
7	91	57.0	91	54.7	91	90.3	91	12.0	91	55.9
8	91	59.3	91	55.3	91	86.1	91	12.2	91	57.2
9	91	62.2	91	55.4	91	79.2	91	12.2	91	58.5
10	91	64.9	91	55.3	91	72.6	91	12.1	91	59.6
11	91	67.2	91	54.6	91	66.3	91	11.8	91	60.1
12	91	68.9	91	54.1	91	61.8	91	11.6	91	60.6
13	91	70.5	91	53.9	91	58.7	91	11.5	91	61.1
14	91	71.6	91	53.6	91	56.3	91	11.4	91	61.4
15	91	72.4	91	53.6	91	55.2	91	11.4	91	61.7
16	91	72.8	91	53.5	91	54.3	91	11.3	91	61.9
17	91	72.9	91	53.5	91	54.2	91	11.3	91	61.9
18	91	72.6	91	53.9	91	55.4	91	11.5	91	62.0
19	91	71.6	91	54.5	91	58.2	91	11.8	91	62.0
20	91	69.1	91	55.0	91	63.5	91	11.9	91	61.2
21	91	66.3	91	55.2	91	69.4	91	12.1	91	60.2
22	91	64.5	91	55.4	91	73.9	91	12.2	91	59.6
23	91	63.2	91	55.6	91	77.6	91	12.3	91	59.1
24	91	61.7	91	55.7	91	81.2	91	12.3	91	58.6
HOURLY MEAN		64.9		54.7		72.5		11.9		59.3
AVG DAILY MAX		74.3		60.1		94.5		14.2		63.9
AVG DAILY MIN		55.0		49.7		49.8		10.0		53.8
ABSOLUTE MAX		98.0		82.8		100.0		27.7		82.4
ABSOLUTE MIN		27.5		15.0		21.2		2.3		25.4
TOTAL OBS		2184		2184		2184		2184		2184

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-JUN 2025

JAN-JUN HOUR AVERAGES FOR THE PERIOD

10.0 METER LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	181	45.6	181	39.9	181	81.1	181	8.2	181	43.1
2	180	44.7	180	39.7	180	82.8	180	8.2	180	42.5
3	181	43.8	180	39.4	180	84.2	180	8.1	180	42.0
4	181	43.0	180	39.3	180	85.7	180	8.1	180	41.5
5	181	42.3	180	39.2	180	87.4	180	8.1	180	41.1
6	181	41.7	180	38.9	180	88.1	180	8.0	180	40.6
7	181	41.7	181	38.8	181	88.5	181	8.0	181	40.6
8	181	42.8	181	39.1	181	86.4	181	8.1	181	41.2
9	181	45.0	181	39.2	181	80.7	181	8.1	181	42.3
10	181	47.7	181	39.2	181	73.9	181	8.1	181	43.7
11	181	50.2	181	39.0	181	67.8	181	7.9	181	44.9
12	181	52.3	181	38.9	181	62.9	181	7.8	181	45.8
13	181	54.1	181	38.8	181	59.2	181	7.8	181	46.7
14	180	55.6	181	38.7	180	56.4	180	7.8	180	47.5
15	181	56.4	181	38.8	181	55.4	181	7.7	181	47.8
16	181	56.9	181	39.0	181	55.0	181	7.7	181	48.1
17	181	57.0	181	39.1	181	55.1	181	7.7	181	48.1
18	181	56.4	181	39.5	181	57.4	181	7.9	181	48.0
19	181	54.8	181	40.1	181	61.6	181	8.0	181	47.5
20	181	52.5	181	40.3	181	66.3	181	8.1	181	46.5
21	181	50.4	181	40.4	181	70.8	181	8.2	181	45.6
22	181	49.0	181	40.4	181	73.9	181	8.2	181	45.0
23	181	47.9	181	40.4	181	76.6	181	8.3	181	44.5
24	181	46.7	181	40.4	181	79.4	181	8.3	181	43.9
HOURLY MEAN		49.1		39.4		72.4		8.0		44.5
AVG DAILY MAX		58.7		45.6		93.3		9.7		50.4
AVG DAILY MIN		39.0		33.5		50.2		6.6		37.8
ABSOLUTE MAX		98.0		82.8		100.0		27.7		82.4
ABSOLUTE MIN		-11.1		-16.2		16.6		.6		-11.6
TOTAL OBS		4342		4339		4338		4338		4338

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-SEP 2025

MONTHLY HOUR AVERAGES FOR THE PERIOD

JULY

10.0 METER LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	31	74.1	31	74.4	31	97.5	31	21.4	31	74.3
2	31	72.8	31	73.6	31	98.8	31	20.9	31	73.3
3	31	72.0	31	73.2	31	99.3	31	20.6	31	72.8
4	31	71.4	31	72.9	31	99.9	31	20.5	31	72.4
5	31	71.1	31	72.2	31	98.8	31	20.0	31	71.8
6	31	70.5	31	71.9	31	99.3	31	19.8	31	71.4
7	31	71.2	31	72.4	31	99.4	31	20.1	31	72.0
8	31	73.2	31	73.2	31	97.4	31	20.6	31	73.2
9	31	75.5	31	73.9	31	93.5	31	21.0	31	74.4
10	31	77.6	31	74.0	31	88.6	31	21.0	31	75.1
11	31	79.5	31	74.1	31	84.0	31	21.0	31	75.7
12	31	80.9	31	74.1	31	80.4	31	21.0	31	76.2
13	31	82.2	31	74.2	31	77.7	31	21.0	31	76.6
14	31	83.1	31	74.2	31	75.4	31	21.0	31	76.9
15	31	83.9	31	74.0	31	73.2	31	20.9	31	77.0
16	31	84.1	31	74.0	31	73.0	31	20.9	31	77.1
17	31	84.2	31	74.3	31	73.3	31	21.1	31	77.3
18	31	84.2	31	75.0	31	74.9	31	21.6	31	77.7
19	31	83.6	31	76.1	31	78.8	31	22.4	31	78.3
20	31	81.1	31	76.8	31	87.0	31	22.9	31	78.0
21	31	78.6	31	77.0	31	93.9	31	23.2	31	77.5
22	31	77.3	31	76.5	31	95.6	31	22.8	31	76.8
23	31	76.3	31	75.9	31	96.4	31	22.5	31	76.1
24	31	75.1	31	75.2	31	97.2	31	22.0	31	75.2
HOURLY MEAN		77.6		74.3		88.9		21.3		75.3
AVG DAILY MAX		85.4		78.5		100.0		24.3		79.3
AVG DAILY MIN		69.7		70.2		70.6		18.6		70.5
ABSOLUTE MAX		93.1		86.7		100.0		31.0		87.4
ABSOLUTE MIN		61.0		59.3		44.9		12.4		62.1
TOTAL OBS		744		744		744		744		744

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-SEP 2025

MONTHLY HOUR AVERAGES FOR THE PERIOD

AUGUST

10.0 METER LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	31	69.4	31	70.2	31	98.8	31	19.0	31	69.9
2	31	68.5	31	69.6	31	99.0	31	18.7	31	69.2
3	31	67.8	31	68.9	31	99.2	31	18.2	31	68.5
4	31	67.0	31	68.3	31	99.7	31	17.9	31	67.8
5	31	66.5	31	68.1	31	99.9	31	17.8	31	67.5
6	31	66.1	31	67.8	31	100.0	31	17.6	31	67.2
7	31	66.5	31	67.9	31	99.9	31	17.6	31	67.3
8	31	68.2	31	68.8	31	98.8	31	18.1	31	68.6
9	31	70.5	31	70.0	31	96.2	31	18.7	31	70.2
10	31	73.4	31	70.0	31	88.5	31	18.7	31	71.2
11	31	75.7	31	69.5	31	81.0	31	18.4	31	71.7
12	31	77.6	31	68.9	31	75.2	31	18.0	31	72.0
13	31	79.0	31	68.7	31	71.2	31	17.9	31	72.2
14	31	80.1	31	68.4	31	68.3	31	17.6	31	72.4
15	31	80.8	31	68.5	31	67.0	31	17.7	31	72.7
16	31	81.1	31	68.6	31	66.8	31	17.8	31	72.8
17	31	80.9	31	69.2	31	68.5	31	18.1	31	73.1
18	31	80.3	31	70.1	31	72.1	31	18.7	31	73.5
19	31	78.9	31	71.4	31	78.1	31	19.5	31	73.8
20	31	75.5	31	72.4	31	89.6	31	20.3	31	73.5
21	31	73.6	31	72.1	31	94.0	31	20.2	31	72.7
22	31	72.3	31	71.8	31	96.0	31	20.0	31	72.0
23	31	71.4	31	71.5	31	97.2	31	19.7	31	71.4
24	31	70.4	31	71.0	31	98.3	31	19.4	31	70.8
HOURLY MEAN		73.4		69.7		87.6		18.6		70.9
AVG DAILY MAX		81.5		74.2		100.0		21.5		74.9
AVG DAILY MIN		65.4		66.0		64.7		16.5		66.4
ABSOLUTE MAX		92.9		84.5		100.0		28.8		85.4
ABSOLUTE MIN		49.7		51.0		44.2		9.4		50.6
TOTAL OBS		744		744		744		744		744

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-SEP 2025

MONTHLY HOUR AVERAGES FOR THE PERIOD

SEPTEMBER

10.0 METER LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	30	63.5	30	64.3	30	97.9	30	15.6	30	64.0
2	30	62.8	30	63.7	30	97.8	30	15.3	30	63.3
3	30	62.2	30	63.0	30	97.7	30	15.0	30	62.7
4	30	61.5	30	62.7	30	98.5	30	14.8	30	62.2
5	30	60.9	30	62.3	30	99.1	30	14.6	30	61.7
6	30	60.5	30	62.0	30	99.3	30	14.5	30	61.4
7	30	60.2	30	61.7	30	99.1	30	14.3	30	61.1
8	30	61.6	30	62.7	30	98.3	30	14.8	30	62.3
9	30	64.8	30	64.7	30	95.8	30	15.8	30	64.8
10	30	68.7	30	65.6	30	88.7	30	16.2	30	66.8
11	30	72.3	30	65.2	30	79.1	30	15.9	30	67.8
12	30	74.8	30	64.6	30	71.9	30	15.5	30	68.3
13	30	76.4	30	64.1	30	67.1	30	15.2	30	68.6
14	30	77.7	30	63.4	30	63.5	30	14.8	30	68.6
15	30	78.5	30	63.1	30	61.6	30	14.7	30	68.7
16	30	78.5	30	63.4	30	62.1	30	14.9	30	68.9
17	30	78.2	30	64.1	30	63.8	30	15.2	30	69.2
18	30	76.3	30	64.8	30	68.7	30	15.6	30	69.0
19	30	73.2	30	65.8	30	78.4	30	16.2	30	68.5
20	30	70.6	30	65.9	30	85.0	30	16.2	30	67.6
21	30	68.6	30	65.6	30	89.4	30	16.1	30	66.7
22	30	67.0	30	65.6	30	93.3	30	16.2	30	66.1
23	30	65.8	30	65.2	30	95.0	30	16.0	30	65.4
24	30	64.5	30	64.8	30	96.9	30	15.8	30	64.7
HOURLY MEAN		68.7		64.1		85.3		15.4		65.8
AVG DAILY MAX		79.5		68.5		100.0		17.7		70.2
AVG DAILY MIN		59.2		59.9		59.2		13.3		60.2
ABSOLUTE MAX		94.2		77.3		100.0		23.0		79.4
ABSOLUTE MIN		47.3		46.3		35.5		7.9		48.2
TOTAL OBS		720		720		720		720		720

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-SEP 2025

JUL-SEP HOUR AVERAGES FOR THE PERIOD

10.0 METER LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	92	69.1	92	69.7	92	98.1	92	18.7	92	69.4
2	92	68.1	92	69.0	92	98.5	92	18.3	92	68.7
3	92	67.4	92	68.4	92	98.8	92	18.0	92	68.0
4	92	66.7	92	68.0	92	99.4	92	17.8	92	67.5
5	92	66.2	92	67.6	92	99.3	92	17.5	92	67.1
6	92	65.8	92	67.3	92	99.5	92	17.3	92	66.7
7	92	66.0	92	67.4	92	99.4	92	17.4	92	66.9
8	92	67.7	92	68.3	92	98.2	92	17.9	92	68.1
9	92	70.3	92	69.6	92	95.2	92	18.5	92	69.8
10	92	73.3	92	69.9	92	88.6	92	18.7	92	71.1
11	92	75.9	92	69.7	92	81.4	92	18.5	92	71.8
12	92	77.8	92	69.3	92	75.9	92	18.2	92	72.2
13	92	79.3	92	69.0	92	72.1	92	18.1	92	72.5
14	92	80.3	92	68.7	92	69.1	92	17.9	92	72.7
15	92	81.1	92	68.6	92	67.3	92	17.8	92	72.9
16	92	81.2	92	68.7	92	67.3	92	17.9	92	73.0
17	92	81.1	92	69.2	92	68.6	92	18.2	92	73.3
18	92	80.3	92	70.0	92	71.9	92	18.7	92	73.5
19	92	78.6	92	71.1	92	78.4	92	19.4	92	73.6
20	92	75.8	92	71.8	92	87.2	92	19.9	92	73.1
21	92	73.6	92	71.6	92	92.4	92	19.9	92	72.3
22	92	72.3	92	71.4	92	95.0	92	19.7	92	71.7
23	92	71.2	92	70.9	92	96.2	92	19.4	92	71.0
24	92	70.1	92	70.4	92	97.5	92	19.1	92	70.3
HOURLY MEAN		73.3		69.4		87.3		18.4		70.7
AVG DAILY MAX		82.1		73.8		100.0		21.2		74.9
AVG DAILY MIN		64.8		65.4		64.9		16.2		65.8
ABSOLUTE MAX		94.2		86.7		100.0		31.0		87.4
ABSOLUTE MIN		47.3		46.3		35.5		7.9		48.2
TOTAL OBS		2208		2208		2208		2208		2208

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY OCT-DEC 2025

MONTHLY HOUR AVERAGES FOR THE PERIOD

OCTOBER

10.0 METER LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	29	57.0	30	53.4	29	88.1	29	11.3	29	55.4
2	29	56.5	30	53.3	29	89.0	29	11.2	29	55.1
3	29	56.1	30	53.2	29	89.7	29	11.2	29	54.9
4	29	55.5	30	52.8	29	90.3	29	11.1	29	54.4
5	29	55.1	30	52.4	29	90.6	29	11.0	29	54.1
6	29	54.5	30	52.4	29	91.9	29	11.0	29	53.7
7	28	55.0	30	52.3	28	92.0	28	11.2	28	54.3
8	28	55.7	30	52.4	28	90.9	28	11.2	28	54.7
9	28	58.0	30	53.5	28	87.5	28	11.5	28	56.1
10	28	60.5	30	54.1	28	82.0	28	11.6	28	57.4
11	27	63.4	29	54.5	27	76.3	27	11.7	27	58.9
12	27	66.0	29	54.2	27	70.2	27	11.5	27	59.7
13	28	67.5	29	54.0	28	66.0	28	11.3	28	60.0
14	28	68.6	29	53.5	28	63.2	28	11.2	28	60.2
15	29	68.9	30	51.4	29	59.9	29	10.7	29	59.6
16	29	69.0	30	52.5	29	60.5	29	10.8	29	59.8
17	29	68.3	30	52.4	29	61.4	29	10.8	29	59.5
18	29	66.1	30	53.0	29	66.4	29	11.0	29	58.9
19	29	63.3	30	53.6	29	73.6	29	11.3	29	58.1
20	29	61.5	30	53.8	29	77.8	29	11.4	29	57.5
21	29	60.5	30	53.7	29	80.1	29	11.4	29	57.0
22	29	58.9	30	53.4	29	82.9	29	11.2	29	56.2
23	29	57.8	30	53.2	29	85.3	29	11.2	29	55.6
24	29	56.9	30	52.7	29	86.6	29	11.0	29	54.9
HOURLY MEAN		60.8		53.2		79.3		11.2		56.9
AVG DAILY MAX		69.0		57.2		93.6		12.7		60.2
AVG DAILY MIN		52.5		47.2		55.5		9.0		51.2
ABSOLUTE MAX		88.5		73.6		100.0		20.7		73.6
ABSOLUTE MIN		32.0		1.8		8.8		1.2		32.8
TOTAL OBS		686		716		686		686		686

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY OCT-DEC 2025

MONTHLY HOUR AVERAGES FOR THE PERIOD

NOVEMBER

10.0 METER LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	30	40.3	30	38.0	30	90.5	30	6.4	30	39.3
2	30	39.6	30	37.7	30	91.4	30	6.3	30	38.8
3	30	38.9	30	37.4	30	92.2	30	6.3	30	38.3
4	30	38.3	30	37.1	30	92.5	30	6.2	30	37.8
5	30	38.4	30	36.6	30	91.8	30	6.1	30	37.6
6	30	38.1	30	36.6	30	92.0	30	6.0	30	37.5
7	30	37.9	30	36.4	30	92.4	30	6.0	30	37.2
8	30	39.3	30	36.3	30	88.9	30	5.9	30	38.0
9	30	42.5	30	36.8	30	80.9	30	6.0	30	40.0
10	30	45.3	30	37.9	30	76.6	30	6.3	30	41.9
11	30	47.6	30	38.4	30	72.2	30	6.4	30	43.3
12	30	49.6	30	38.4	30	68.1	30	6.4	30	44.2
13	30	51.1	30	38.2	30	64.3	30	6.3	30	44.9
14	30	52.1	30	38.0	30	62.0	30	6.3	30	45.3
15	30	52.5	30	38.2	30	61.8	30	6.3	30	45.6
16	30	51.6	30	38.1	30	63.5	30	6.3	30	45.1
17	30	49.2	30	38.1	30	68.2	30	6.4	30	44.0
18	30	47.2	30	38.3	30	73.0	30	6.4	30	43.1
19	30	45.4	30	38.4	30	77.6	30	6.5	30	42.2
20	30	43.9	30	38.4	30	81.5	30	6.5	30	41.4
21	30	43.0	30	38.5	30	84.4	30	6.5	30	41.0
22	30	42.4	30	38.2	30	85.4	30	6.4	30	40.5
23	30	41.2	30	38.0	30	88.4	30	6.4	30	39.8
24	29	41.0	29	38.2	29	89.4	29	6.4	29	39.7
HOURLY MEAN		44.0		37.8		80.4		6.3		41.1
AVG DAILY MAX		53.2		43.0		98.2		7.6		46.8
AVG DAILY MIN		34.9		32.4		60.5		5.1		34.4
ABSOLUTE MAX		73.9		58.3		100.0		12.4		63.1
ABSOLUTE MIN		16.3		15.7		30.6		2.5		16.1
TOTAL OBS		719		719		719		719		719

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY OCT-DEC 2025

MONTHLY HOUR AVERAGES FOR THE PERIOD

DECEMBER

10.0 METER LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	31	31.1	31	28.4	31	89.3	31	4.7	31	30.2
2	31	30.4	31	27.9	31	89.8	31	4.6	31	29.5
3	31	29.6	31	27.5	31	90.9	31	4.5	31	28.9
4	31	29.0	31	27.3	31	92.0	31	4.5	31	28.4
5	31	28.4	31	26.8	31	92.0	31	4.4	31	27.9
6	31	28.2	31	26.7	31	92.5	31	4.3	31	27.7
7	31	27.9	31	26.7	31	93.5	31	4.3	31	27.5
8	31	27.6	31	26.7	31	94.4	31	4.3	31	27.3
9	31	27.9	31	27.2	31	95.2	31	4.3	31	27.7
10	31	29.9	31	28.5	31	92.8	31	4.6	31	29.4
11	31	32.5	31	29.5	31	88.2	31	4.7	31	31.4
12	31	34.4	31	30.1	31	84.4	31	4.8	31	32.7
13	31	35.9	31	30.4	31	81.1	31	4.9	31	33.8
14	31	37.3	31	30.7	31	78.5	31	5.0	31	34.6
15	31	38.7	31	30.9	31	75.6	31	5.0	31	35.5
16	31	39.5	31	30.9	31	73.7	31	5.0	31	36.0
17	31	39.0	31	31.0	31	74.9	31	5.1	31	35.7
18	31	37.5	31	30.9	31	78.2	31	5.0	31	34.8
19	31	36.0	31	30.5	31	81.1	31	5.0	31	33.8
20	31	34.9	31	30.2	31	83.2	31	5.0	31	33.1
21	31	33.8	31	29.9	31	85.2	31	4.9	31	32.3
22	31	33.5	31	29.8	31	86.1	31	4.9	31	32.1
23	31	32.8	31	29.5	31	87.1	31	4.9	31	31.6
24	31	32.0	31	29.0	31	88.1	31	4.8	31	30.9
HOURLY MEAN		32.8		29.0		86.2		4.7		31.4
AVG DAILY MAX		43.2		36.4		98.6		6.1		40.0
AVG DAILY MIN		22.9		21.3		70.6		3.5		22.6
ABSOLUTE MAX		59.2		55.6		100.0		11.5		54.8
ABSOLUTE MIN		4.2		4.1		36.6		1.5		4.2
TOTAL OBS		744		744		744		744		744

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY OCT-DEC 2025

OCT-DEC HOUR AVERAGES FOR THE PERIOD

10.0 METER LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	90	42.5	91	39.8	90	89.3	90	7.4	90	41.4
2	90	41.9	91	39.5	90	90.1	90	7.3	90	40.9
3	90	41.2	91	39.2	90	90.9	90	7.3	90	40.4
4	90	40.6	91	38.9	90	91.6	90	7.2	90	39.9
5	90	40.3	91	38.5	90	91.5	90	7.1	90	39.6
6	90	40.0	91	38.4	90	92.1	90	7.0	90	39.4
7	89	39.8	91	38.3	89	92.7	89	7.0	89	39.2
8	89	40.4	91	38.3	89	91.4	89	7.0	89	39.5
9	89	42.3	91	39.0	89	87.9	89	7.2	89	40.8
10	89	44.7	91	40.0	89	84.0	89	7.3	89	42.4
11	88	47.2	90	40.5	88	79.1	88	7.4	88	43.9
12	88	49.3	90	40.6	88	74.5	88	7.4	88	44.9
13	89	51.0	90	40.6	89	70.7	89	7.4	89	45.8
14	89	52.1	90	40.5	89	68.1	89	7.4	89	46.3
15	90	53.0	91	40.1	90	65.9	90	7.3	90	46.6
16	90	53.0	91	40.4	90	66.0	90	7.3	90	46.7
17	90	51.8	91	40.4	90	68.3	90	7.3	90	46.1
18	90	49.9	91	40.6	90	72.6	90	7.4	90	45.3
19	90	47.9	91	40.7	90	77.5	90	7.5	90	44.5
20	90	46.5	91	40.7	90	80.9	90	7.6	90	43.7
21	90	45.5	91	40.6	90	83.3	90	7.5	90	43.2
22	90	44.6	91	40.3	90	84.8	90	7.5	90	42.7
23	90	43.7	91	40.1	90	87.0	90	7.4	90	42.1
24	89	43.0	90	39.8	89	88.0	89	7.3	89	41.6
HOURLY MEAN		45.5		39.8		82.0		7.3		42.8
AVG DAILY MAX		55.2		45.6		96.8		8.8		49.0
AVG DAILY MIN		36.8		33.6		62.2		5.8		36.1
ABSOLUTE MAX		88.5		73.6		100.0		20.7		73.6
ABSOLUTE MIN		4.2		1.8		8.8		1.2		4.2
TOTAL OBS		2149		2179		2149		2149		2149

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JUL-DEC 2025

JUL-DEC HOUR AVERAGES FOR THE PERIOD

10.0 METER LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	182	55.9	183	54.8	182	93.7	182	13.1	182	55.6
2	182	55.1	183	54.3	182	94.4	182	12.9	182	54.9
3	182	54.4	183	53.9	182	94.9	182	12.7	182	54.4
4	182	53.8	183	53.6	182	95.5	182	12.5	182	53.9
5	182	53.4	183	53.1	182	95.4	182	12.3	182	53.5
6	182	53.0	183	52.9	182	95.9	182	12.2	182	53.2
7	181	53.1	183	52.9	181	96.1	181	12.3	181	53.3
8	181	54.3	183	53.4	181	94.9	181	12.5	181	54.0
9	181	56.5	183	54.4	181	91.6	181	12.9	181	55.5
10	181	59.2	183	55.1	181	86.3	181	13.1	181	57.0
11	180	61.8	182	55.3	180	80.3	180	13.1	180	58.1
12	180	63.8	182	55.1	180	75.2	180	12.9	180	58.9
13	181	65.4	182	55.0	181	71.4	181	12.8	181	59.4
14	181	66.5	182	54.8	181	68.6	181	12.7	181	59.7
15	182	67.2	183	54.4	182	66.6	182	12.6	182	59.9
16	182	67.3	183	54.7	182	66.7	182	12.7	182	60.0
17	182	66.6	183	54.9	182	68.5	182	12.8	182	59.8
18	182	65.3	183	55.4	182	72.3	182	13.1	182	59.6
19	182	63.4	183	56.0	182	78.0	182	13.5	182	59.2
20	182	61.3	183	56.3	182	84.1	182	13.8	182	58.6
21	182	59.7	183	56.2	182	87.9	182	13.8	182	57.9
22	182	58.6	183	55.9	182	90.0	182	13.6	182	57.3
23	182	57.6	183	55.6	182	91.6	182	13.5	182	56.7
24	181	56.8	182	55.3	181	92.8	181	13.3	181	56.2
HOURLY MEAN		59.6		54.7		84.7		13.0		56.9
AVG DAILY MAX		68.7		59.7		98.4		15.0		61.9
AVG DAILY MIN		50.8		49.5		63.6		11.0		50.9
ABSOLUTE MAX		94.2		86.7		100.0		31.0		87.4
ABSOLUTE MIN		4.2		1.8		8.8		1.2		4.2
TOTAL OBS		4357		4387		4357		4357		4357

PROGRAM: WETTEMP
VERSION: PC-1.0

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-DEC 2025

JAN-DEC HOUR AVERAGES FOR THE PERIOD

10.0 METER LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG F)	NUMBER OBS	(DEG F)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG F)
1	363	50.8	364	47.4	363	87.4	363	10.6	363	49.4
2	362	49.9	363	47.1	362	88.6	362	10.5	362	48.8
3	363	49.1	363	46.7	362	89.6	362	10.4	362	48.2
4	363	48.4	363	46.5	362	90.7	362	10.3	362	47.7
5	363	47.9	363	46.2	362	91.4	362	10.2	362	47.3
6	363	47.4	363	46.0	362	92.0	362	10.1	362	47.0
7	362	47.4	364	45.9	362	92.3	362	10.1	362	46.9
8	362	48.6	364	46.3	362	90.6	362	10.3	362	47.6
9	362	50.8	364	46.8	362	86.2	362	10.5	362	48.9
10	362	53.5	364	47.2	362	80.1	362	10.6	362	50.3
11	361	56.0	363	47.2	361	74.0	361	10.5	361	51.5
12	361	58.1	363	47.0	361	69.0	361	10.4	361	52.3
13	362	59.7	363	46.9	362	65.3	362	10.3	362	53.0
14	361	61.1	363	46.7	361	62.5	361	10.2	361	53.6
15	363	61.8	364	46.7	363	61.0	363	10.2	363	53.9
16	363	62.1	364	46.9	363	60.8	363	10.2	363	54.1
17	363	61.8	364	47.0	363	61.8	363	10.3	363	54.0
18	363	60.8	364	47.5	363	64.9	363	10.5	363	53.8
19	363	59.1	364	48.1	363	69.8	363	10.8	363	53.3
20	363	56.9	364	48.4	363	75.2	363	11.0	363	52.6
21	363	55.1	364	48.3	363	79.4	363	11.0	363	51.8
22	363	53.8	364	48.2	363	82.0	363	11.0	363	51.2
23	363	52.8	364	48.0	363	84.2	363	10.9	363	50.6
24	362	51.8	363	47.8	362	86.1	362	10.8	362	50.0
HOURLY MEAN		54.4		47.1		78.5		10.5		50.7
AVG DAILY MAX		63.7		52.7		95.9		12.4		56.2
AVG DAILY MIN		45.0		41.6		56.9		8.8		44.4
ABSOLUTE MAX		98.0		86.7		100.0		31.0		87.4
ABSOLUTE MIN		-11.1		-16.2		8.8		.6		-11.6
TOTAL OBS		8699		8726		8695		8695		8695

Wind Direction Frequencies

10-Meter Level

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JANUARY

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	6.7	10.0	00.0	00.0	00.0	00.0	00.0	00.0	10.0	10.0	6.7	6.7	10.0	13.3	13.3	13.3	00.0	100.
2	13.3	3.3	3.3	00.0	00.0	00.0	00.0	3.3	6.7	13.3	00.0	6.7	16.7	16.7	3.3	13.3	00.0	100.
3	6.7	3.3	3.3	00.0	00.0	00.0	00.0	3.3	10.0	00.0	10.0	6.7	6.7	20.0	13.3	16.7	00.0	100.
4	6.7	00.0	10.0	00.0	00.0	00.0	00.0	6.7	3.3	3.3	3.3	6.7	3.3	36.7	00.0	20.0	00.0	100.
5	10.0	3.3	3.3	00.0	00.0	00.0	3.3	3.3	6.7	6.7	00.0	6.7	3.3	20.0	16.7	16.7	00.0	100.
6	16.7	6.7	3.3	00.0	00.0	00.0	3.3	00.0	10.0	3.3	3.3	3.3	3.3	16.7	10.0	20.0	00.0	100.
7	10.0	6.7	6.7	00.0	00.0	3.3	3.3	00.0	3.3	6.7	6.7	6.7	13.3	6.7	16.7	10.0	00.0	100.
8	3.3	6.7	3.3	00.0	00.0	00.0	3.3	3.3	6.7	3.3	10.0	3.3	13.3	6.7	16.7	20.0	00.0	100.
9	10.3	6.9	00.0	3.4	00.0	3.4	6.9	3.4	6.9	3.4	6.9	6.9	13.8	00.0	13.8	13.8	00.0	100.
10	3.2	9.7	00.0	3.2	00.0	00.0	9.7	00.0	9.7	3.2	3.2	9.7	9.7	6.5	12.9	19.4	00.0	100.
11	3.2	6.5	00.0	3.2	00.0	3.2	3.2	00.0	12.9	6.5	6.5	3.2	6.5	9.7	12.9	22.6	00.0	100.
12	6.5	3.2	00.0	3.2	00.0	3.2	00.0	3.2	9.7	9.7	6.5	9.7	3.2	6.5	16.1	19.4	00.0	100.
13	6.5	6.5	00.0	3.2	00.0	00.0	00.0	00.0	12.9	3.2	12.9	6.5	6.5	6.5	19.4	16.1	00.0	100.
14	6.5	3.2	00.0	3.2	00.0	00.0	00.0	00.0	6.5	12.9	6.5	12.9	3.2	9.7	19.4	16.1	00.0	100.
15	9.7	3.2	3.2	3.2	00.0	00.0	00.0	00.0	6.5	12.9	16.1	3.2	3.2	6.5	19.4	12.9	00.0	100.
16	12.9	6.5	00.0	3.2	00.0	00.0	00.0	00.0	9.7	9.7	16.1	6.5	00.0	3.2	22.6	9.7	00.0	100.
17	19.4	3.2	3.2	00.0	00.0	00.0	00.0	00.0	9.7	16.1	9.7	6.5	00.0	3.2	12.9	16.1	00.0	100.
18	9.7	3.2	3.2	00.0	00.0	00.0	00.0	00.0	6.5	19.4	9.7	6.5	00.0	3.2	6.5	32.3	00.0	100.
19	16.1	3.2	3.2	00.0	00.0	00.0	00.0	00.0	16.1	6.5	12.9	3.2	3.2	6.5	9.7	19.4	00.0	100.
20	9.7	6.5	3.2	00.0	3.2	00.0	00.0	00.0	19.4	3.2	6.5	9.7	6.5	6.5	6.5	19.4	00.0	100.
21	16.1	3.2	6.5	00.0	00.0	00.0	3.2	00.0	9.7	3.2	9.7	12.9	6.5	3.2	3.2	22.6	00.0	100.
22	16.7	3.3	3.3	00.0	00.0	00.0	00.0	00.0	3.3	3.3	10.0	13.3	6.7	3.3	10.0	26.7	00.0	100.
23	3.3	3.3	3.3	00.0	00.0	00.0	00.0	00.0	3.3	10.0	6.7	10.0	10.0	13.3	13.3	20.0	3.3	100.
24	10.0	6.7	3.3	00.0	00.0	00.0	00.0	3.3	6.7	10.0	3.3	16.7	00.0	10.0	13.3	13.3	3.3	100.
ALL	9.7	4.9	2.7	1.1	.1	.5	1.5	1.2	8.6	7.5	7.7	7.7	6.2	9.7	12.6	17.9	.3	100.

NUMBER OF OBS = 731

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

FEBRUARY

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	21.4	14.3	3.6	3.6	00.0	00.0	3.6	00.0	7.1	3.6	10.7	7.1	00.0	10.7	7.1	3.6	3.6	100.
2	10.7	10.7	3.6	3.6	00.0	00.0	3.6	3.6	10.7	7.1	10.7	3.6	7.1	7.1	14.3	3.6	00.0	100.
3	14.3	17.9	3.6	00.0	00.0	00.0	00.0	7.1	14.3	10.7	3.6	00.0	7.1	10.7	7.1	3.6	00.0	100.
4	21.4	14.3	3.6	3.6	00.0	00.0	3.6	3.6	3.6	7.1	7.1	00.0	00.0	7.1	14.3	7.1	3.6	100.
5	10.7	17.9	3.6	00.0	00.0	00.0	10.7	3.6	00.0	3.6	10.7	3.6	3.6	3.6	14.3	7.1	7.1	100.
6	10.7	21.4	3.6	3.6	00.0	00.0	3.6	3.6	7.1	7.1	3.6	3.6	00.0	7.1	14.3	7.1	3.6	100.
7	11.1	18.5	3.7	3.7	00.0	00.0	3.7	3.7	11.1	3.7	3.7	00.0	7.4	3.7	14.8	7.4	3.7	100.
8	14.3	10.7	7.1	00.0	00.0	00.0	3.6	10.7	00.0	3.6	3.6	00.0	3.6	14.3	21.4	7.1	00.0	100.
9	10.7	10.7	3.6	3.6	3.6	00.0	10.7	7.1	00.0	7.1	3.6	3.6	00.0	3.6	17.9	10.7	3.6	100.
10	14.3	14.3	7.1	00.0	3.6	3.6	00.0	21.4	00.0	00.0	3.6	3.6	00.0	3.6	17.9	7.1	00.0	100.
11	10.7	14.3	7.1	00.0	00.0	7.1	3.6	10.7	3.6	00.0	7.1	3.6	3.6	00.0	21.4	7.1	00.0	100.
12	17.9	3.6	7.1	3.6	00.0	7.1	7.1	7.1	3.6	3.6	7.1	00.0	7.1	00.0	17.9	7.1	00.0	100.
13	10.7	10.7	00.0	00.0	00.0	7.1	3.6	10.7	3.6	10.7	3.6	3.6	3.6	7.1	10.7	14.3	00.0	100.
14	14.3	10.7	00.0	00.0	00.0	14.3	00.0	7.1	10.7	10.7	00.0	00.0	3.6	7.1	10.7	10.7	00.0	100.
15	10.7	7.1	3.6	00.0	00.0	10.7	3.6	3.6	17.9	3.6	00.0	00.0	7.1	3.6	17.9	10.7	00.0	100.
16	10.7	7.1	3.6	00.0	00.0	10.7	3.6	7.1	7.1	10.7	00.0	3.6	7.1	7.1	7.1	14.3	00.0	100.
17	3.6	10.7	3.6	00.0	00.0	7.1	3.6	10.7	14.3	00.0	7.1	3.6	3.6	3.6	10.7	17.9	00.0	100.
18	7.1	10.7	00.0	3.6	3.6	7.1	00.0	14.3	14.3	00.0	3.6	3.6	00.0	3.6	14.3	14.3	00.0	100.
19	3.6	3.6	3.6	10.7	00.0	3.6	7.1	7.1	10.7	3.6	00.0	7.1	00.0	3.6	7.1	21.4	7.1	100.
20	3.6	10.7	00.0	7.1	00.0	7.1	00.0	7.1	17.9	10.7	00.0	00.0	3.6	3.6	14.3	14.3	00.0	100.
21	10.7	7.1	7.1	3.6	00.0	3.6	3.6	00.0	28.6	3.6	00.0	00.0	3.6	7.1	7.1	10.7	3.6	100.
22	14.3	7.1	7.1	3.6	3.6	00.0	3.6	3.6	7.1	21.4	00.0	00.0	00.0	10.7	7.1	7.1	3.6	100.
23	14.3	7.1	3.6	3.6	00.0	00.0	7.1	3.6	7.1	10.7	7.1	7.1	3.6	3.6	10.7	7.1	3.6	100.
24	25.9	3.7	7.4	00.0	3.7	00.0	3.7	00.0	14.8	00.0	11.1	3.7	00.0	11.1	11.1	3.7	00.0	100.
ALL	12.4	11.0	4.0	2.4	.7	3.7	3.9	6.6	9.0	6.0	4.5	2.5	3.1	6.0	13.0	9.4	1.8	100.

NUMBER OF OBS = 670

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

MARCH

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	12.9	3.2	3.2	00.0	3.2	3.2	3.2	12.9	12.9	9.7	00.0	00.0	9.7	3.2	12.9	9.7	00.0	100.
2	6.5	6.5	00.0	00.0	00.0	6.5	6.5	9.7	9.7	6.5	9.7	3.2	00.0	3.2	16.1	12.9	3.2	100.
3	00.0	6.5	00.0	00.0	00.0	3.2	6.5	6.5	12.9	12.9	3.2	6.5	3.2	6.5	9.7	19.4	3.2	100.
4	3.2	9.7	00.0	00.0	9.7	3.2	3.2	12.9	3.2	12.9	3.2	00.0	00.0	6.5	19.4	12.9	00.0	100.
5	6.5	3.2	00.0	00.0	3.2	9.7	6.5	12.9	12.9	9.7	00.0	3.2	3.2	9.7	9.7	9.7	00.0	100.
6	12.9	00.0	00.0	00.0	6.5	6.5	3.2	3.2	16.1	9.7	00.0	3.2	3.2	12.9	9.7	6.5	6.5	100.
7	9.7	00.0	00.0	00.0	3.2	3.2	9.7	3.2	16.1	12.9	6.5	00.0	00.0	16.1	6.5	3.2	9.7	100.
8	9.7	00.0	00.0	3.2	00.0	00.0	12.9	9.7	12.9	9.7	9.7	00.0	00.0	3.2	19.4	3.2	6.5	100.
9	9.7	9.7	6.5	00.0	00.0	00.0	9.7	9.7	12.9	6.5	9.7	3.2	00.0	00.0	16.1	6.5	00.0	100.
10	9.7	9.7	00.0	00.0	3.2	3.2	12.9	00.0	16.1	9.7	6.5	6.5	3.2	00.0	12.9	6.5	00.0	100.
11	9.7	12.9	00.0	00.0	00.0	00.0	16.1	6.5	9.7	12.9	6.5	00.0	3.2	3.2	9.7	9.7	00.0	100.
12	12.9	9.7	00.0	3.2	00.0	3.2	9.7	6.5	12.9	9.7	6.5	3.2	00.0	3.2	6.5	12.9	00.0	100.
13	12.9	6.5	00.0	3.2	3.2	00.0	12.9	9.7	12.9	6.5	6.5	3.2	3.2	3.2	12.9	3.2	00.0	100.
14	9.7	6.5	00.0	00.0	00.0	6.5	6.5	12.9	12.9	9.7	3.2	9.7	00.0	3.2	12.9	6.5	00.0	100.
15	6.5	6.5	6.5	00.0	00.0	00.0	9.7	16.1	9.7	9.7	6.5	6.5	00.0	3.2	16.1	3.2	00.0	100.
16	3.2	00.0	6.5	3.2	3.2	00.0	3.2	16.1	12.9	6.5	12.9	00.0	6.5	3.2	12.9	9.7	00.0	100.
17	3.2	00.0	3.2	3.2	00.0	6.5	6.5	12.9	9.7	9.7	12.9	3.2	3.2	00.0	12.9	12.9	00.0	100.
18	6.5	00.0	3.2	6.5	00.0	6.5	3.2	19.4	9.7	12.9	00.0	3.2	3.2	3.2	9.7	12.9	00.0	100.
19	00.0	3.2	00.0	3.2	6.5	3.2	9.7	16.1	9.7	9.7	9.7	00.0	3.2	00.0	12.9	12.9	00.0	100.
20	6.5	00.0	00.0	00.0	6.5	3.2	3.2	12.9	16.1	12.9	3.2	3.2	00.0	3.2	9.7	19.4	00.0	100.
21	6.5	3.2	3.2	00.0	3.2	00.0	00.0	16.1	22.6	3.2	3.2	3.2	6.5	6.5	3.2	19.4	00.0	100.
22	6.5	3.2	00.0	00.0	00.0	9.7	00.0	9.7	16.1	6.5	3.2	9.7	9.7	6.5	3.2	16.1	00.0	100.
23	3.2	3.2	3.2	3.2	00.0	3.2	9.7	9.7	16.1	3.2	00.0	6.5	3.2	9.7	6.5	19.4	00.0	100.
24	6.5	3.2	00.0	00.0	6.5	3.2	6.5	12.9	9.7	6.5	9.7	3.2	00.0	9.7	3.2	16.1	3.2	100.
ALL	7.3	4.4	1.5	1.2	2.4	3.5	7.1	10.8	12.8	9.1	5.5	3.4	2.7	5.0	11.0	11.0	1.3	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JAN-MAR

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	13.5	9.0	2.2	1.1	1.1	1.1	2.2	4.5	10.1	7.9	5.6	4.5	6.7	9.0	11.2	9.0	1.1	100.
2	10.1	6.7	2.2	1.1	00.0	2.2	3.4	5.6	9.0	9.0	6.7	4.5	7.9	9.0	11.2	10.1	1.1	100.
3	6.7	9.0	2.2	00.0	00.0	1.1	2.2	5.6	12.4	7.9	5.6	4.5	5.6	12.4	10.1	13.5	1.1	100.
4	10.1	7.9	4.5	1.1	3.4	1.1	2.2	7.9	3.4	7.9	4.5	2.2	1.1	16.9	11.2	13.5	1.1	100.
5	9.0	7.9	2.2	00.0	1.1	3.4	6.7	6.7	6.7	6.7	3.4	4.5	3.4	11.2	13.5	11.2	2.2	100.
6	13.5	9.0	2.2	1.1	2.2	2.2	3.4	2.2	11.2	6.7	2.2	3.4	2.2	12.4	11.2	11.2	3.4	100.
7	10.2	8.0	3.4	1.1	1.1	2.3	5.7	2.3	10.2	8.0	5.7	2.3	6.8	9.1	12.5	6.8	4.5	100.
8	9.0	5.6	3.4	1.1	00.0	00.0	6.7	7.9	6.7	5.6	7.9	1.1	5.6	7.9	19.1	10.1	2.2	100.
9	10.2	9.1	3.4	2.3	1.1	1.1	9.1	6.8	6.8	5.7	6.8	4.5	4.5	1.1	15.9	10.2	1.1	100.
10	8.9	11.1	2.2	1.1	2.2	2.2	7.8	6.7	8.9	4.4	4.4	6.7	4.4	3.3	14.4	11.1	00.0	100.
11	7.8	11.1	2.2	1.1	00.0	3.3	7.8	5.6	8.9	6.7	6.7	2.2	4.4	4.4	14.4	13.3	00.0	100.
12	12.2	5.6	2.2	3.3	00.0	4.4	5.6	5.6	8.9	7.8	6.7	4.4	3.3	3.3	13.3	13.3	00.0	100.
13	10.0	7.8	00.0	2.2	1.1	2.2	5.6	6.7	10.0	6.7	7.8	4.4	4.4	5.6	14.4	11.1	00.0	100.
14	10.0	6.7	00.0	1.1	00.0	6.7	2.2	6.7	10.0	11.1	3.3	7.8	2.2	6.7	14.4	11.1	00.0	100.
15	8.9	5.6	4.4	1.1	00.0	3.3	4.4	6.7	11.1	8.9	7.8	3.3	3.3	4.4	17.8	8.9	00.0	100.
16	8.9	4.4	3.3	2.2	1.1	3.3	2.2	7.8	10.0	8.9	10.0	3.3	4.4	4.4	14.4	11.1	00.0	100.
17	8.9	4.4	3.3	1.1	00.0	4.4	3.3	7.8	11.1	8.9	10.0	4.4	2.2	2.2	12.2	15.6	00.0	100.
18	7.8	4.4	2.2	3.3	1.1	4.4	1.1	11.1	10.0	11.1	4.4	4.4	1.1	3.3	10.0	20.0	00.0	100.
19	6.7	3.3	2.2	4.4	2.2	2.2	5.6	7.8	12.2	6.7	7.8	3.3	2.2	3.3	10.0	17.8	2.2	100.
20	6.7	5.6	1.1	2.2	3.3	3.3	1.1	6.7	17.8	8.9	3.3	4.4	3.3	4.4	10.0	17.8	00.0	100.
21	11.1	4.4	5.6	1.1	1.1	1.1	2.2	5.6	20.0	3.3	4.4	5.6	5.6	5.6	4.4	17.8	1.1	100.
22	12.4	4.5	3.4	1.1	1.1	3.4	1.1	4.5	9.0	10.1	4.5	7.9	5.6	6.7	6.7	16.9	1.1	100.
23	6.7	4.5	3.4	2.2	00.0	1.1	5.6	4.5	9.0	7.9	4.5	7.9	5.6	9.0	10.1	15.7	2.2	100.
24	13.6	4.5	3.4	00.0	3.4	1.1	3.4	5.7	10.2	5.7	8.0	8.0	00.0	10.2	9.1	11.4	2.3	100.
ALL	9.7	6.7	2.7	1.5	1.1	2.6	4.2	6.2	10.2	7.6	5.9	4.6	4.0	6.9	12.2	12.9	1.1	100.

NUMBER OF OBS = 2145

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

APRIL

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	13.3	6.7	00.0	00.0	00.0	10.0	10.0	6.7	10.0	00.0	00.0	3.3	00.0	3.3	13.3	20.0	3.3	100.
2	13.3	3.3	10.0	00.0	00.0	3.3	6.7	16.7	6.7	3.3	00.0	3.3	3.3	6.7	6.7	16.7	00.0	100.
3	6.7	6.7	3.3	3.3	00.0	6.7	3.3	13.3	10.0	3.3	00.0	3.3	3.3	10.0	3.3	20.0	3.3	100.
4	3.3	3.3	3.3	00.0	00.0	10.0	3.3	10.0	10.0	6.7	00.0	3.3	3.3	6.7	10.0	23.3	3.3	100.
5	10.0	3.3	3.3	3.3	00.0	3.3	10.0	6.7	13.3	3.3	00.0	00.0	3.3	10.0	6.7	23.3	00.0	100.
6	13.3	6.7	3.3	3.3	00.0	00.0	6.7	13.3	13.3	3.3	00.0	00.0	00.0	10.0	13.3	13.3	00.0	100.
7	16.7	6.7	3.3	6.7	00.0	3.3	6.7	6.7	10.0	13.3	3.3	3.3	00.0	00.0	6.7	13.3	00.0	100.
8	16.7	3.3	6.7	6.7	3.3	3.3	13.3	10.0	6.7	3.3	00.0	00.0	3.3	3.3	6.7	13.3	00.0	100.
9	20.0	6.7	00.0	3.3	6.7	3.3	10.0	13.3	10.0	00.0	00.0	00.0	3.3	00.0	10.0	13.3	00.0	100.
10	20.0	6.7	3.3	00.0	3.3	10.0	6.7	3.3	20.0	00.0	3.3	00.0	00.0	00.0	6.7	16.7	00.0	100.
11	20.0	10.0	00.0	00.0	10.0	00.0	13.3	6.7	13.3	00.0	00.0	3.3	3.3	00.0	3.3	16.7	00.0	100.
12	16.7	10.0	00.0	3.3	3.3	6.7	10.0	10.0	13.3	00.0	00.0	3.3	00.0	00.0	3.3	20.0	00.0	100.
13	16.7	6.7	3.3	00.0	3.3	3.3	16.7	3.3	16.7	3.3	00.0	3.3	00.0	00.0	10.0	13.3	00.0	100.
14	16.7	6.7	3.3	3.3	00.0	00.0	16.7	6.7	13.3	6.7	00.0	3.3	00.0	3.3	3.3	16.7	00.0	100.
15	20.0	3.3	3.3	6.7	00.0	00.0	6.7	16.7	10.0	6.7	00.0	3.3	3.3	3.3	3.3	13.3	00.0	100.
16	16.7	10.0	6.7	00.0	00.0	3.3	6.7	16.7	10.0	6.7	00.0	00.0	6.7	3.3	3.3	10.0	00.0	100.
17	10.0	13.3	3.3	00.0	3.3	00.0	13.3	13.3	10.0	6.7	00.0	00.0	3.3	6.7	6.7	10.0	00.0	100.
18	16.7	6.7	6.7	3.3	3.3	3.3	6.7	16.7	10.0	3.3	00.0	00.0	6.7	3.3	3.3	10.0	00.0	100.
19	6.7	6.7	3.3	10.0	00.0	3.3	13.3	16.7	10.0	00.0	00.0	3.3	3.3	3.3	3.3	16.7	00.0	100.
20	6.7	10.0	00.0	3.3	10.0	00.0	10.0	16.7	6.7	6.7	3.3	00.0	00.0	3.3	3.3	16.7	3.3	100.
21	13.3	13.3	00.0	00.0	3.3	10.0	10.0	13.3	10.0	3.3	00.0	00.0	00.0	3.3	10.0	6.7	3.3	100.
22	23.3	00.0	3.3	3.3	00.0	00.0	16.7	13.3	10.0	00.0	3.3	00.0	3.3	3.3	6.7	10.0	3.3	100.
23	16.7	3.3	00.0	3.3	3.3	00.0	20.0	10.0	6.7	6.7	00.0	00.0	00.0	3.3	6.7	20.0	00.0	100.
24	10.0	10.0	00.0	00.0	00.0	6.7	20.0	6.7	3.3	6.7	3.3	00.0	00.0	00.0	10.0	20.0	3.3	100.
ALL	14.3	6.8	2.9	2.6	2.2	3.8	10.7	11.1	10.6	3.9	.7	1.5	2.1	3.6	6.7	15.6	1.0	100.

NUMBER OF OBS = 720

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

MAY

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	9.7	6.5	6.5	3.2	00.0	6.5	9.7	00.0	3.2	00.0	3.2	9.7	3.2	6.5	12.9	9.7	9.7	100.
2	9.7	6.5	6.5	3.2	6.5	3.2	6.5	00.0	3.2	00.0	9.7	12.9	00.0	6.5	9.7	9.7	6.5	100.
3	9.7	9.7	6.5	3.2	9.7	00.0	3.2	3.2	3.2	3.2	00.0	3.2	00.0	12.9	6.5	16.1	9.7	100.
4	6.5	6.5	9.7	6.5	00.0	6.5	00.0	6.5	00.0	6.5	3.2	3.2	3.2	3.2	16.1	19.4	3.2	100.
5	12.9	6.5	16.1	00.0	3.2	3.2	00.0	3.2	00.0	6.5	6.5	6.5	3.2	6.5	16.1	9.7	00.0	100.
6	12.9	00.0	12.9	3.2	3.2	3.2	00.0	00.0	00.0	00.0	16.1	00.0	6.5	3.2	12.9	19.4	6.5	100.
7	12.9	3.2	6.5	9.7	3.2	3.2	00.0	00.0	9.7	3.2	6.5	6.5	00.0	9.7	9.7	6.5	9.7	100.
8	6.5	12.9	6.5	9.7	6.5	6.5	6.5	3.2	9.7	00.0	3.2	3.2	3.2	6.5	3.2	12.9	00.0	100.
9	9.7	9.7	9.7	3.2	9.7	12.9	9.7	3.2	00.0	3.2	00.0	3.2	6.5	9.7	9.7	00.0	00.0	100.
10	6.5	12.9	6.5	6.5	6.5	16.1	16.1	3.2	00.0	00.0	00.0	3.2	3.2	6.5	6.5	6.5	00.0	100.
11	9.7	6.5	6.5	12.9	12.9	9.7	9.7	3.2	00.0	00.0	00.0	00.0	6.5	3.2	12.9	6.5	00.0	100.
12	12.9	6.5	12.9	00.0	12.9	16.1	6.5	3.2	3.2	00.0	00.0	00.0	6.5	6.5	9.7	3.2	00.0	100.
13	9.7	3.2	9.7	12.9	12.9	6.5	12.9	3.2	00.0	00.0	00.0	00.0	3.2	9.7	6.5	9.7	00.0	100.
14	16.1	9.7	6.5	3.2	22.6	6.5	6.5	6.5	00.0	00.0	00.0	00.0	3.2	6.5	9.7	3.2	00.0	100.
15	19.4	9.7	9.7	12.9	6.5	6.5	16.1	00.0	00.0	00.0	00.0	00.0	3.2	6.5	9.7	00.0	00.0	100.
16	16.1	6.5	12.9	9.7	3.2	12.9	9.7	00.0	3.2	00.0	00.0	00.0	00.0	12.9	6.5	6.5	00.0	100.
17	9.7	9.7	9.7	16.1	3.2	6.5	12.9	3.2	00.0	3.2	00.0	00.0	3.2	6.5	3.2	12.9	00.0	100.
18	19.4	6.5	12.9	3.2	9.7	6.5	16.1	6.5	00.0	00.0	00.0	00.0	3.2	9.7	3.2	3.2	00.0	100.
19	6.5	12.9	9.7	6.5	9.7	6.5	9.7	6.5	00.0	3.2	3.2	00.0	6.5	00.0	9.7	9.7	00.0	100.
20	6.5	12.9	9.7	6.5	12.9	3.2	12.9	00.0	3.2	00.0	9.7	00.0	00.0	6.5	16.1	00.0	00.0	100.
21	6.5	12.9	00.0	6.5	9.7	3.2	3.2	6.5	00.0	9.7	3.2	6.5	3.2	16.1	6.5	6.5	00.0	100.
22	9.7	12.9	3.2	3.2	9.7	3.2	3.2	3.2	3.2	9.7	16.1	3.2	6.5	6.5	6.5	00.0	00.0	100.
23	3.2	9.7	3.2	6.5	00.0	3.2	6.5	00.0	9.7	12.9	6.5	00.0	00.0	6.5	16.1	12.9	3.2	100.
24	3.2	12.9	3.2	3.2	00.0	3.2	6.5	00.0	6.5	9.7	3.2	00.0	9.7	19.4	12.9	3.2	3.2	100.
ALL	10.2	8.6	8.2	6.3	7.3	6.5	7.7	2.7	2.4	3.0	3.8	2.6	3.5	7.8	9.7	7.8	2.2	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JUNE

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	3.3	00.0	00.0	00.0	00.0	00.0	6.7	10.0	33.3	10.0	6.7	3.3	00.0	6.7	00.0	16.7	3.3	100.
2	00.0	00.0	00.0	00.0	3.3	00.0	3.3	6.7	26.7	10.0	3.3	13.3	6.7	3.3	10.0	6.7	6.7	100.
3	16.7	00.0	00.0	00.0	00.0	00.0	6.7	6.7	20.0	10.0	6.7	13.3	00.0	6.7	00.0	3.3	10.0	100.
4	13.3	6.7	00.0	00.0	00.0	00.0	6.7	6.7	33.3	10.0	6.7	6.7	3.3	00.0	00.0	6.7	00.0	100.
5	6.7	6.7	6.7	00.0	00.0	00.0	3.3	6.7	26.7	13.3	00.0	3.3	3.3	6.7	00.0	6.7	10.0	100.
6	13.3	00.0	00.0	00.0	3.3	3.3	6.7	10.0	23.3	6.7	6.7	3.3	6.7	00.0	6.7	3.3	6.7	100.
7	3.3	13.3	00.0	3.3	00.0	3.3	3.3	20.0	26.7	00.0	6.7	00.0	6.7	6.7	00.0	3.3	3.3	100.
8	13.3	3.3	6.7	00.0	3.3	3.3	6.7	10.0	23.3	10.0	6.7	3.3	00.0	6.7	00.0	3.3	00.0	100.
9	6.7	6.7	3.3	3.3	6.7	00.0	6.7	3.3	20.0	20.0	6.7	00.0	00.0	6.7	3.3	6.7	00.0	100.
10	3.3	3.3	3.3	00.0	6.7	3.3	10.0	6.7	16.7	16.7	10.0	00.0	00.0	6.7	6.7	6.7	00.0	100.
11	3.3	00.0	10.0	3.3	3.3	6.7	13.3	10.0	10.0	13.3	13.3	00.0	00.0	00.0	6.7	6.7	00.0	100.
12	00.0	3.3	6.7	3.3	3.3	10.0	10.0	10.0	10.0	23.3	3.3	00.0	00.0	3.3	3.3	10.0	00.0	100.
13	00.0	3.3	6.7	00.0	3.3	3.3	16.7	6.7	6.7	36.7	00.0	00.0	00.0	00.0	3.3	13.3	00.0	100.
14	00.0	3.3	6.7	3.3	00.0	6.7	13.3	6.7	6.7	36.7	00.0	00.0	00.0	00.0	10.0	6.7	00.0	100.
15	00.0	3.3	3.3	3.3	6.7	00.0	10.0	13.3	10.0	30.0	3.3	3.3	3.3	00.0	6.7	3.3	00.0	100.
16	3.3	3.3	00.0	3.3	3.3	6.7	10.0	3.3	30.0	20.0	6.7	00.0	00.0	3.3	3.3	3.3	00.0	100.
17	6.7	00.0	6.7	00.0	00.0	3.3	13.3	6.7	26.7	13.3	3.3	6.7	3.3	00.0	3.3	6.7	00.0	100.
18	10.0	00.0	3.3	00.0	00.0	3.3	16.7	6.7	23.3	13.3	3.3	3.3	6.7	00.0	3.3	6.7	00.0	100.
19	6.7	3.3	3.3	00.0	00.0	3.3	16.7	16.7	16.7	10.0	6.7	00.0	3.3	00.0	6.7	6.7	00.0	100.
20	6.7	00.0	00.0	3.3	3.3	00.0	16.7	10.0	20.0	16.7	6.7	3.3	00.0	00.0	13.3	00.0	00.0	100.
21	3.3	00.0	00.0	6.7	00.0	00.0	6.7	10.0	26.7	13.3	3.3	6.7	00.0	3.3	10.0	10.0	00.0	100.
22	6.7	3.3	00.0	3.3	00.0	00.0	6.7	6.7	23.3	13.3	6.7	00.0	6.7	6.7	6.7	10.0	00.0	100.
23	3.3	3.3	00.0	00.0	3.3	00.0	00.0	6.7	36.7	6.7	6.7	6.7	6.7	10.0	6.7	3.3	00.0	100.
24	00.0	00.0	00.0	00.0	00.0	6.7	3.3	00.0	40.0	6.7	6.7	6.7	3.3	3.3	3.3	16.7	3.3	100.
ALL	5.4	2.8	2.8	1.5	2.1	2.6	8.9	8.3	22.4	15.0	5.4	3.5	2.5	3.3	4.7	6.9	1.8	100.

NUMBER OF OBS = 720

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

APR-JUN

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	8.8	4.4	2.2	1.1	00.0	5.5	8.8	5.5	15.4	3.3	3.3	5.5	1.1	5.5	8.8	15.4	5.5	100.
2	7.7	3.3	5.5	1.1	3.3	2.2	5.5	7.7	12.1	4.4	4.4	9.9	3.3	5.5	8.8	11.0	4.4	100.
3	11.0	5.5	3.3	2.2	3.3	2.2	4.4	7.7	11.0	5.5	2.2	6.6	1.1	9.9	3.3	13.2	7.7	100.
4	7.7	5.5	4.4	2.2	00.0	5.5	3.3	7.7	14.3	7.7	3.3	4.4	3.3	3.3	8.8	16.5	2.2	100.
5	9.9	5.5	8.8	1.1	1.1	2.2	4.4	5.5	13.2	7.7	2.2	3.3	3.3	7.7	7.7	13.2	3.3	100.
6	13.2	2.2	5.5	2.2	2.2	2.2	4.4	7.7	12.1	3.3	7.7	1.1	4.4	4.4	11.0	12.1	4.4	100.
7	11.0	7.7	3.3	6.6	1.1	3.3	3.3	8.8	15.4	5.5	5.5	3.3	2.2	5.5	5.5	7.7	4.4	100.
8	12.1	6.6	6.6	5.5	4.4	4.4	8.8	7.7	13.2	4.4	3.3	2.2	2.2	5.5	3.3	9.9	00.0	100.
9	12.1	7.7	4.4	3.3	7.7	5.5	8.8	6.6	9.9	7.7	2.2	1.1	3.3	5.5	7.7	6.6	00.0	100.
10	9.9	7.7	4.4	2.2	5.5	9.9	11.0	4.4	12.1	5.5	4.4	1.1	1.1	4.4	6.6	9.9	00.0	100.
11	11.0	5.5	5.5	5.5	8.8	5.5	12.1	6.6	7.7	4.4	4.4	1.1	3.3	1.1	7.7	9.9	00.0	100.
12	9.9	6.6	6.6	2.2	6.6	11.0	8.8	7.7	8.8	7.7	1.1	1.1	2.2	3.3	5.5	11.0	00.0	100.
13	8.8	4.4	6.6	4.4	6.6	4.4	15.4	4.4	7.7	13.2	00.0	1.1	1.1	3.3	6.6	12.1	00.0	100.
14	11.0	6.6	5.5	3.3	7.7	4.4	12.1	6.6	6.6	14.3	00.0	1.1	1.1	3.3	7.7	8.8	00.0	100.
15	13.2	5.5	5.5	7.7	4.4	2.2	11.0	9.9	6.6	12.1	1.1	2.2	3.3	3.3	6.6	5.5	00.0	100.
16	12.1	6.6	6.6	4.4	2.2	7.7	8.8	6.6	14.3	8.8	2.2	00.0	2.2	6.6	4.4	6.6	00.0	100.
17	8.8	7.7	6.6	5.5	2.2	3.3	13.2	7.7	12.1	7.7	1.1	2.2	3.3	4.4	4.4	9.9	00.0	100.
18	15.4	4.4	7.7	2.2	4.4	4.4	13.2	9.9	11.0	5.5	1.1	1.1	5.5	4.4	3.3	6.6	00.0	100.
19	6.6	7.7	5.5	5.5	3.3	4.4	13.2	13.2	8.8	4.4	3.3	1.1	4.4	1.1	6.6	11.0	00.0	100.
20	6.6	7.7	3.3	4.4	8.8	1.1	13.2	8.8	9.9	7.7	6.6	1.1	00.0	3.3	11.0	5.5	1.1	100.
21	7.7	8.8	00.0	4.4	4.4	4.4	6.6	9.9	12.1	8.8	2.2	4.4	1.1	7.7	8.8	7.7	1.1	100.
22	13.2	5.5	2.2	3.3	3.3	1.1	8.8	7.7	12.1	7.7	8.8	1.1	5.5	5.5	6.6	6.6	1.1	100.
23	7.7	5.5	1.1	3.3	2.2	1.1	8.8	5.5	17.6	8.8	4.4	2.2	2.2	6.6	9.9	12.1	1.1	100.
24	4.4	7.7	1.1	1.1	00.0	5.5	9.9	2.2	16.5	7.7	4.4	2.2	4.4	7.7	8.8	13.2	3.3	100.
ALL	10.0	6.1	4.7	3.5	3.9	4.3	9.1	7.3	11.7	7.2	3.3	2.5	2.7	4.9	7.1	10.1	1.6	100.

NUMBER OF OBS = 2184

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JAN-JUN

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	11.1	6.7	2.2	1.1	.6	3.3	5.6	5.0	12.8	5.6	4.4	5.0	3.9	7.2	10.0	12.2	3.3	100.
2	8.9	5.0	3.9	1.1	1.7	2.2	4.4	6.7	10.6	6.7	5.6	7.2	5.6	7.2	10.0	10.6	2.8	100.
3	8.9	7.2	2.8	1.1	1.7	1.7	3.3	6.7	11.7	6.7	3.9	5.6	3.3	11.1	6.7	13.3	4.4	100.
4	8.9	6.7	4.4	1.7	1.7	3.3	2.8	7.8	8.9	7.8	3.9	3.3	2.2	10.0	10.0	15.0	1.7	100.
5	9.4	6.7	5.6	.6	1.1	2.8	5.6	6.1	10.0	7.2	2.8	3.9	3.3	9.4	10.6	12.2	2.8	100.
6	13.3	5.6	3.9	1.7	2.2	2.2	3.9	5.0	11.7	5.0	5.0	2.2	3.3	8.3	11.1	11.7	3.9	100.
7	10.6	7.8	3.4	3.9	1.1	2.8	4.5	5.6	12.8	6.7	5.6	2.8	4.5	7.3	8.9	7.3	4.5	100.
8	10.6	6.1	5.0	3.3	2.2	2.2	7.8	7.8	10.0	5.0	5.6	1.7	3.9	6.7	11.1	10.0	1.1	100.
9	11.2	8.4	3.9	2.8	4.5	3.4	8.9	6.7	8.4	6.7	4.5	2.8	3.9	3.4	11.7	8.4	.6	100.
10	9.4	9.4	3.3	1.7	3.9	6.1	9.4	5.5	10.5	5.0	4.4	3.9	2.8	3.9	10.5	10.5	00.0	100.
11	9.4	8.3	3.9	3.3	4.4	4.4	9.9	6.1	8.3	5.5	5.5	1.7	3.9	2.8	11.0	11.6	00.0	100.
12	11.0	6.1	4.4	2.8	3.3	7.7	7.2	6.6	8.8	7.7	3.9	2.8	2.8	3.3	9.4	12.2	00.0	100.
13	9.4	6.1	3.3	3.3	3.9	3.3	10.5	5.5	8.8	9.9	3.9	2.8	2.8	4.4	10.5	11.6	00.0	100.
14	10.5	6.6	2.8	2.2	3.9	5.5	7.2	6.6	8.3	12.7	1.7	4.4	1.7	5.0	11.0	9.9	00.0	100.
15	11.0	5.5	5.0	4.4	2.2	2.8	7.7	8.3	8.8	10.5	4.4	2.8	3.3	3.9	12.2	7.2	00.0	100.
16	10.5	5.5	5.0	3.3	1.7	5.5	5.5	7.2	12.2	8.8	6.1	1.7	3.3	5.5	9.4	8.8	00.0	100.
17	8.8	6.1	5.0	3.3	1.1	3.9	8.3	7.7	11.6	8.3	5.5	3.3	2.8	3.3	8.3	12.7	00.0	100.
18	11.6	4.4	5.0	2.8	2.8	4.4	7.2	10.5	10.5	8.3	2.8	2.8	3.3	3.9	6.6	13.3	00.0	100.
19	6.6	5.5	3.9	5.0	2.8	3.3	9.4	10.5	10.5	5.5	5.5	2.2	3.3	2.2	8.3	14.4	1.1	100.
20	6.6	6.6	2.2	3.3	6.1	2.2	7.2	7.7	13.8	8.3	5.0	2.8	1.7	3.9	10.5	11.6	.6	100.
21	9.4	6.6	2.8	2.8	2.8	2.8	4.4	7.7	16.0	6.1	3.3	5.0	3.3	6.6	6.6	12.7	1.1	100.
22	12.8	5.0	2.8	2.2	2.2	2.2	5.0	6.1	10.6	8.9	6.7	4.4	5.6	6.1	6.7	11.7	1.1	100.
23	7.2	5.0	2.2	2.8	1.1	1.1	7.2	5.0	13.3	8.3	4.4	5.0	3.9	7.8	10.0	13.9	1.7	100.
24	8.9	6.1	2.2	.6	1.7	3.4	6.7	3.9	13.4	6.7	6.1	5.0	2.2	8.9	8.9	12.3	2.8	100.
ALL	9.8	6.4	3.7	2.5	2.5	3.4	6.7	6.8	10.9	7.4	4.6	3.5	3.3	5.9	9.6	11.5	1.4	100.

NUMBER OF OBS = 4329

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JULY

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	19.4	00.0	00.0	00.0	00.0	6.5	00.0	3.2	25.8	6.5	6.5	00.0	3.2	3.2	6.5	6.5	12.9	100.
2	3.2	12.9	3.2	00.0	3.2	6.5	00.0	00.0	19.4	16.1	00.0	3.2	6.5	00.0	9.7	6.5	9.7	100.
3	6.5	9.7	3.2	3.2	00.0	6.5	00.0	00.0	22.6	12.9	3.2	6.5	12.9	00.0	00.0	6.5	6.5	100.
4	6.5	12.9	3.2	00.0	00.0	3.2	3.2	9.7	22.6	9.7	00.0	3.2	9.7	00.0	3.2	9.7	3.2	100.
5	9.7	3.2	3.2	3.2	00.0	6.5	3.2	3.2	16.1	12.9	6.5	00.0	00.0	9.7	12.9	3.2	6.5	100.
6	12.9	00.0	3.2	3.2	3.2	3.2	9.7	00.0	19.4	6.5	3.2	3.2	3.2	00.0	9.7	3.2	16.1	100.
7	12.9	00.0	6.5	3.2	00.0	16.1	6.5	3.2	19.4	12.9	6.5	3.2	00.0	00.0	3.2	3.2	3.2	100.
8	6.5	3.2	6.5	00.0	3.2	00.0	16.1	22.6	16.1	12.9	6.5	00.0	3.2	00.0	00.0	3.2	00.0	100.
9	9.7	00.0	3.2	00.0	6.5	3.2	6.5	16.1	19.4	12.9	9.7	00.0	00.0	00.0	9.7	3.2	00.0	100.
10	6.5	6.5	6.5	6.5	00.0	6.5	3.2	9.7	25.8	19.4	00.0	00.0	00.0	3.2	6.5	00.0	00.0	100.
11	3.2	9.7	6.5	00.0	6.5	6.5	6.5	12.9	19.4	19.4	3.2	00.0	00.0	00.0	00.0	6.5	00.0	100.
12	6.5	3.2	12.9	00.0	00.0	9.7	9.7	16.1	19.4	9.7	00.0	3.2	3.2	00.0	6.5	00.0	00.0	100.
13	9.7	9.7	00.0	6.5	6.5	6.5	6.5	00.0	32.3	9.7	6.5	00.0	00.0	00.0	3.2	3.2	00.0	100.
14	9.7	6.5	3.2	6.5	6.5	3.2	6.5	3.2	35.5	6.5	6.5	3.2	00.0	00.0	3.2	00.0	00.0	100.
15	6.5	12.9	00.0	6.5	00.0	3.2	9.7	12.9	32.3	3.2	3.2	3.2	00.0	3.2	3.2	00.0	00.0	100.
16	12.9	3.2	00.0	3.2	6.5	6.5	6.5	16.1	22.6	3.2	6.5	3.2	00.0	3.2	3.2	3.2	00.0	100.
17	16.1	3.2	00.0	6.5	3.2	9.7	3.2	16.1	22.6	6.5	3.2	00.0	3.2	00.0	00.0	6.5	00.0	100.
18	3.2	9.7	12.9	00.0	6.5	3.2	9.7	29.0	12.9	3.2	00.0	3.2	00.0	00.0	00.0	6.5	00.0	100.
19	6.5	00.0	6.5	9.7	3.2	12.9	9.7	32.3	3.2	3.2	00.0	3.2	3.2	00.0	00.0	6.5	00.0	100.
20	9.7	00.0	6.5	3.2	9.7	6.5	6.5	25.8	9.7	3.2	00.0	00.0	00.0	3.2	00.0	16.1	00.0	100.
21	9.7	3.2	6.5	6.5	00.0	9.7	3.2	3.2	19.4	16.1	3.2	00.0	3.2	6.5	3.2	6.5	00.0	100.
22	9.7	00.0	6.5	00.0	3.2	00.0	3.2	6.5	25.8	16.1	00.0	00.0	00.0	9.7	00.0	16.1	3.2	100.
23	3.2	3.2	3.2	00.0	3.2	3.2	6.5	00.0	32.3	12.9	00.0	00.0	00.0	00.0	9.7	16.1	6.5	100.
24	12.9	00.0	3.2	00.0	3.2	3.2	00.0	3.2	38.7	3.2	6.5	6.5	9.7	6.5	3.2	00.0	00.0	100.
ALL	8.9	4.7	4.4	2.8	3.1	5.9	5.6	10.2	22.2	9.9	3.4	1.9	2.6	2.0	4.0	5.5	2.8	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

AUGUST

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	6.5	00.0	00.0	3.2	3.2	9.7	9.7	12.9	9.7	6.5	00.0	6.5	00.0	9.7	9.7	6.5	6.5	100.
2	3.2	00.0	00.0	3.2	00.0	00.0	9.7	19.4	12.9	3.2	3.2	3.2	6.5	6.5	12.9	12.9	3.2	100.
3	00.0	00.0	00.0	3.2	00.0	00.0	9.7	9.7	12.9	6.5	3.2	3.2	9.7	9.7	12.9	16.1	3.2	100.
4	12.9	3.2	3.2	00.0	00.0	00.0	00.0	19.4	16.1	3.2	3.2	6.5	3.2	6.5	3.2	12.9	6.5	100.
5	19.4	9.7	00.0	3.2	00.0	00.0	3.2	9.7	12.9	9.7	3.2	3.2	6.5	00.0	9.7	3.2	6.5	100.
6	12.9	6.5	6.5	3.2	00.0	00.0	00.0	12.9	19.4	3.2	00.0	3.2	6.5	3.2	12.9	6.5	3.2	100.
7	9.7	9.7	3.2	3.2	3.2	6.5	00.0	19.4	9.7	9.7	00.0	3.2	00.0	3.2	3.2	9.7	6.5	100.
8	16.1	6.5	3.2	3.2	00.0	16.1	12.9	9.7	19.4	3.2	00.0	3.2	3.2	3.2	00.0	00.0	00.0	100.
9	6.5	6.5	6.5	6.5	9.7	9.7	19.4	9.7	19.4	3.2	00.0	00.0	3.2	00.0	00.0	00.0	00.0	100.
10	3.2	6.5	6.5	00.0	9.7	19.4	12.9	9.7	19.4	6.5	00.0	00.0	3.2	3.2	00.0	00.0	00.0	100.
11	6.5	3.2	3.2	9.7	3.2	9.7	16.1	12.9	22.6	6.5	00.0	3.2	3.2	00.0	00.0	00.0	00.0	100.
12	3.2	6.5	00.0	3.2	6.5	6.5	29.0	6.5	19.4	6.5	00.0	00.0	6.5	00.0	3.2	3.2	00.0	100.
13	3.2	9.7	6.5	3.2	6.5	00.0	16.1	16.1	25.8	3.2	00.0	3.2	00.0	3.2	3.2	00.0	00.0	100.
14	6.5	6.5	00.0	6.5	6.5	3.2	19.4	16.1	16.1	6.5	00.0	3.2	3.2	00.0	6.5	00.0	00.0	100.
15	3.2	9.7	00.0	3.2	6.5	6.5	22.6	16.1	16.1	3.2	00.0	00.0	3.2	3.2	3.2	3.2	00.0	100.
16	12.9	3.2	00.0	6.5	12.9	00.0	16.1	16.1	12.9	6.5	00.0	00.0	3.2	00.0	3.2	6.5	00.0	100.
17	12.9	00.0	00.0	3.2	12.9	6.5	6.5	25.8	12.9	3.2	00.0	3.2	00.0	00.0	3.2	9.7	00.0	100.
18	12.9	00.0	3.2	3.2	9.7	9.7	19.4	16.1	9.7	3.2	3.2	00.0	00.0	00.0	00.0	9.7	00.0	100.
19	9.7	3.2	00.0	6.5	6.5	12.9	9.7	19.4	3.2	6.5	00.0	00.0	00.0	00.0	6.5	16.1	00.0	100.
20	6.5	3.2	3.2	6.5	00.0	9.7	12.9	9.7	6.5	3.2	6.5	3.2	3.2	9.7	9.7	6.5	00.0	100.
21	6.5	6.5	00.0	00.0	3.2	6.5	9.7	6.5	6.5	9.7	3.2	6.5	3.2	12.9	3.2	16.1	00.0	100.
22	6.5	3.2	3.2	00.0	00.0	3.2	9.7	6.5	3.2	9.7	6.5	3.2	3.2	9.7	9.7	16.1	6.5	100.
23	9.7	3.2	3.2	00.0	00.0	3.2	16.1	6.5	12.9	3.2	00.0	3.2	00.0	6.5	12.9	19.4	00.0	100.
24	9.7	6.5	00.0	3.2	00.0	6.5	16.1	12.9	3.2	6.5	3.2	00.0	3.2	9.7	6.5	6.5	6.5	100.
ALL	8.3	4.7	2.2	3.5	4.2	6.0	12.4	13.3	13.4	5.5	1.5	2.6	3.1	4.2	5.6	7.5	2.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

SEPTEMBER

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	10.0	6.7	00.0	3.3	00.0	3.3	3.3	10.0	20.0	3.3	6.7	00.0	10.0	00.0	13.3	6.7	3.3	100.
2	6.7	6.7	00.0	00.0	00.0	00.0	6.7	6.7	16.7	3.3	6.7	3.3	6.7	00.0	6.7	20.0	10.0	100.
3	10.0	6.7	3.3	00.0	3.3	3.3	3.3	13.3	6.7	6.7	6.7	3.3	00.0	13.3	10.0	00.0	10.0	100.
4	13.3	00.0	3.3	00.0	00.0	3.3	00.0	6.7	16.7	6.7	10.0	3.3	00.0	6.7	13.3	6.7	10.0	100.
5	10.0	00.0	3.3	00.0	00.0	3.3	00.0	10.0	10.0	16.7	10.0	3.3	6.7	10.0	00.0	3.3	13.3	100.
6	6.7	00.0	3.3	3.3	3.3	3.3	3.3	10.0	13.3	10.0	3.3	3.3	6.7	3.3	6.7	3.3	16.7	100.
7	13.3	00.0	6.7	00.0	00.0	3.3	00.0	3.3	13.3	6.7	10.0	3.3	3.3	3.3	13.3	6.7	13.3	100.
8	3.3	3.3	00.0	3.3	00.0	6.7	00.0	23.3	16.7	6.7	3.3	6.7	6.7	00.0	6.7	3.3	10.0	100.
9	3.3	10.0	00.0	6.7	10.0	6.7	3.3	10.0	23.3	00.0	3.3	00.0	6.7	00.0	6.7	6.7	3.3	100.
10	6.7	6.7	3.3	6.7	6.7	10.0	6.7	6.7	20.0	6.7	3.3	3.3	00.0	6.7	3.3	3.3	00.0	100.
11	6.7	3.3	00.0	00.0	13.3	13.3	10.0	6.7	20.0	10.0	00.0	6.7	00.0	3.3	3.3	3.3	00.0	100.
12	13.3	00.0	3.3	00.0	13.3	3.3	16.7	10.0	23.3	3.3	00.0	3.3	6.7	00.0	3.3	00.0	00.0	100.
13	13.3	10.0	00.0	00.0	00.0	13.3	13.3	6.7	30.0	3.3	00.0	00.0	3.3	00.0	3.3	3.3	00.0	100.
14	3.3	6.7	3.3	00.0	00.0	6.7	13.3	10.0	23.3	10.0	3.3	3.3	00.0	6.7	6.7	3.3	00.0	100.
15	13.3	6.7	00.0	00.0	3.3	3.3	13.3	13.3	20.0	13.3	00.0	00.0	00.0	6.7	3.3	3.3	00.0	100.
16	00.0	10.0	00.0	00.0	3.3	6.7	6.7	10.0	26.7	10.0	3.3	00.0	3.3	6.7	00.0	13.3	00.0	100.
17	10.0	00.0	00.0	6.7	3.3	00.0	3.3	20.0	20.0	10.0	00.0	3.3	3.3	00.0	10.0	10.0	00.0	100.
18	6.7	00.0	3.3	3.3	3.3	00.0	3.3	20.0	10.0	16.7	3.3	3.3	00.0	3.3	13.3	10.0	00.0	100.
19	3.3	3.3	00.0	3.3	00.0	00.0	3.3	6.7	10.0	16.7	13.3	3.3	3.3	6.7	10.0	16.7	00.0	100.
20	10.0	00.0	00.0	3.3	00.0	00.0	00.0	6.7	16.7	20.0	00.0	10.0	10.0	3.3	3.3	16.7	00.0	100.
21	10.0	00.0	00.0	00.0	3.3	00.0	00.0	00.0	23.3	10.0	6.7	6.7	3.3	6.7	16.7	6.7	6.7	100.
22	6.7	00.0	00.0	00.0	00.0	00.0	00.0	6.7	20.0	13.3	6.7	6.7	3.3	10.0	20.0	3.3	3.3	100.
23	13.3	00.0	00.0	00.0	00.0	3.3	00.0	6.7	20.0	6.7	00.0	10.0	3.3	6.7	10.0	13.3	6.7	100.
24	00.0	6.7	3.3	00.0	00.0	3.3	3.3	6.7	13.3	16.7	00.0	3.3	3.3	00.0	16.7	16.7	6.7	100.
ALL	8.1	3.6	1.5	1.7	2.8	4.0	4.7	9.6	18.1	9.4	4.2	3.8	3.8	4.3	8.3	7.5	4.7	100.

NUMBER OF OBS = 720

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JUL-SEP

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	12.0	2.2	00.0	2.2	1.1	6.5	4.3	8.7	18.5	5.4	4.3	2.2	4.3	4.3	9.8	6.5	7.6	100.
2	4.3	6.5	1.1	1.1	1.1	2.2	5.4	8.7	16.3	7.6	3.3	3.3	6.5	2.2	9.8	13.0	7.6	100.
3	5.4	5.4	2.2	2.2	1.1	3.3	4.3	7.6	14.1	8.7	4.3	4.3	7.6	7.6	7.6	7.6	6.5	100.
4	10.9	5.4	3.3	00.0	00.0	2.2	1.1	12.0	18.5	6.5	4.3	4.3	4.3	4.3	6.5	9.8	6.5	100.
5	13.0	4.3	2.2	2.2	00.0	3.3	2.2	7.6	13.0	13.0	6.5	2.2	4.3	6.5	7.6	3.3	8.7	100.
6	10.9	2.2	4.3	3.3	2.2	2.2	4.3	7.6	17.4	6.5	2.2	3.3	5.4	2.2	9.8	4.3	12.0	100.
7	12.0	3.3	5.4	2.2	1.1	8.7	2.2	8.7	14.1	9.8	5.4	3.3	1.1	2.2	6.5	6.5	7.6	100.
8	8.7	4.3	3.3	2.2	1.1	7.6	9.8	18.5	17.4	7.6	3.3	3.3	4.3	1.1	2.2	2.2	3.3	100.
9	6.5	5.4	3.3	4.3	8.7	6.5	9.8	12.0	20.7	5.4	4.3	00.0	3.3	00.0	5.4	3.3	1.1	100.
10	5.4	6.5	5.4	4.3	5.4	12.0	7.6	8.7	21.7	10.9	1.1	1.1	1.1	4.3	3.3	1.1	00.0	100.
11	5.4	5.4	3.3	3.3	7.6	9.8	10.9	10.9	20.7	12.0	1.1	3.3	1.1	1.1	1.1	3.3	00.0	100.
12	7.6	3.3	5.4	1.1	6.5	6.5	18.5	10.9	20.7	6.5	00.0	2.2	5.4	00.0	4.3	1.1	00.0	100.
13	8.7	9.8	2.2	3.3	4.3	6.5	12.0	7.6	29.3	5.4	2.2	1.1	1.1	1.1	3.3	2.2	00.0	100.
14	6.5	6.5	2.2	4.3	4.3	4.3	13.0	9.8	25.0	7.6	3.3	3.3	1.1	2.2	5.4	1.1	00.0	100.
15	7.6	9.8	00.0	3.3	3.3	4.3	15.2	14.1	22.8	6.5	1.1	1.1	1.1	4.3	3.3	2.2	00.0	100.
16	8.7	5.4	00.0	3.3	7.6	4.3	9.8	14.1	20.7	6.5	3.3	1.1	2.2	3.3	2.2	7.6	00.0	100.
17	13.0	1.1	00.0	5.4	6.5	5.4	4.3	20.7	18.5	6.5	1.1	2.2	2.2	00.0	4.3	8.7	00.0	100.
18	7.6	3.3	6.5	2.2	6.5	4.3	10.9	21.7	10.9	7.6	2.2	2.2	00.0	1.1	4.3	8.7	00.0	100.
19	6.5	2.2	2.2	6.5	3.3	8.7	7.6	19.6	5.4	8.7	4.3	2.2	2.2	2.2	5.4	13.0	00.0	100.
20	8.7	1.1	3.3	4.3	3.3	5.4	6.5	14.1	10.9	8.7	2.2	4.3	4.3	5.4	4.3	13.0	00.0	100.
21	8.7	3.3	2.2	2.2	2.2	5.4	4.3	3.3	16.3	12.0	4.3	4.3	3.3	8.7	7.6	9.8	2.2	100.
22	7.6	1.1	3.3	00.0	1.1	1.1	4.3	6.5	16.3	13.0	4.3	3.3	2.2	9.8	9.8	12.0	4.3	100.
23	8.7	2.2	2.2	00.0	1.1	3.3	7.6	4.3	21.7	7.6	00.0	4.3	1.1	4.3	10.9	16.3	4.3	100.
24	7.6	4.3	2.2	1.1	1.1	4.3	6.5	7.6	18.5	8.7	3.3	3.3	5.4	5.4	8.7	7.6	4.3	100.
ALL	8.4	4.3	2.7	2.7	3.4	5.3	7.6	11.1	17.9	8.3	3.0	2.7	3.1	3.5	6.0	6.8	3.2	100.

NUMBER OF OBS = 2208

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

OCTOBER

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	16.1	6.5	3.2	00.0	6.5	3.2	3.2	9.7	16.1	3.2	3.2	3.2	3.2	6.5	6.5	6.5	3.2	100.
2	12.9	00.0	00.0	3.2	6.5	6.5	12.9	3.2	16.1	3.2	00.0	00.0	3.2	9.7	9.7	6.5	6.5	100.
3	9.7	3.2	6.5	00.0	3.2	9.7	9.7	3.2	9.7	3.2	00.0	00.0	3.2	6.5	6.5	16.1	9.7	100.
4	12.9	3.2	3.2	3.2	3.2	6.5	6.5	3.2	9.7	00.0	3.2	3.2	6.5	3.2	9.7	12.9	9.7	100.
5	9.7	6.5	6.5	00.0	6.5	3.2	6.5	6.5	16.1	3.2	6.5	3.2	3.2	6.5	3.2	3.2	9.7	100.
6	6.5	9.7	00.0	6.5	6.5	6.5	3.2	9.7	6.5	00.0	00.0	00.0	9.7	6.5	3.2	6.5	19.4	100.
7	9.7	3.2	3.2	00.0	9.7	6.5	6.5	6.5	12.9	9.7	3.2	00.0	6.5	6.5	3.2	6.5	6.5	100.
8	12.9	00.0	3.2	00.0	9.7	6.5	6.5	6.5	16.1	6.5	00.0	00.0	3.2	9.7	00.0	12.9	6.5	100.
9	12.9	00.0	00.0	00.0	6.5	16.1	3.2	19.4	16.1	3.2	00.0	00.0	3.2	12.9	00.0	3.2	3.2	100.
10	3.2	9.7	00.0	00.0	6.5	6.5	16.1	6.5	16.1	16.1	00.0	00.0	3.2	9.7	3.2	3.2	00.0	100.
11	3.2	6.5	6.5	00.0	00.0	9.7	12.9	12.9	16.1	3.2	3.2	9.7	00.0	3.2	6.5	6.5	00.0	100.
12	00.0	12.9	00.0	00.0	6.5	9.7	12.9	12.9	12.9	00.0	3.2	3.2	9.7	6.5	3.2	6.5	00.0	100.
13	3.3	10.0	00.0	00.0	3.3	16.7	6.7	13.3	13.3	3.3	00.0	6.7	3.3	10.0	3.3	6.7	00.0	100.
14	6.5	6.5	00.0	3.2	00.0	16.1	9.7	9.7	16.1	00.0	3.2	00.0	3.2	6.5	9.7	9.7	00.0	100.
15	00.0	12.9	00.0	00.0	6.5	9.7	12.9	9.7	16.1	00.0	00.0	6.5	3.2	00.0	12.9	9.7	00.0	100.
16	9.7	00.0	3.2	00.0	3.2	12.9	12.9	6.5	19.4	00.0	3.2	6.5	00.0	3.2	6.5	12.9	00.0	100.
17	6.5	3.2	3.2	3.2	3.2	9.7	9.7	3.2	25.8	00.0	6.5	3.2	00.0	00.0	9.7	12.9	00.0	100.
18	3.2	6.5	00.0	00.0	6.5	3.2	12.9	6.5	16.1	9.7	00.0	00.0	00.0	00.0	16.1	19.4	00.0	100.
19	9.7	00.0	00.0	00.0	3.2	9.7	3.2	9.7	19.4	00.0	00.0	6.5	3.2	6.5	9.7	19.4	00.0	100.
20	9.7	3.2	00.0	00.0	3.2	9.7	6.5	6.5	19.4	3.2	00.0	00.0	3.2	9.7	12.9	12.9	00.0	100.
21	9.7	3.2	00.0	00.0	3.2	9.7	9.7	3.2	12.9	3.2	00.0	00.0	3.2	12.9	12.9	16.1	00.0	100.
22	16.1	00.0	00.0	00.0	00.0	3.2	16.1	6.5	16.1	00.0	3.2	00.0	3.2	6.5	12.9	12.9	3.2	100.
23	16.1	00.0	00.0	6.5	00.0	3.2	9.7	3.2	16.1	6.5	3.2	00.0	3.2	9.7	16.1	3.2	3.2	100.
24	12.9	3.2	00.0	6.5	3.2	00.0	12.9	3.2	19.4	6.5	00.0	00.0	6.5	12.9	00.0	6.5	6.5	100.
ALL	8.9	4.6	1.6	1.3	4.4	8.1	9.3	7.5	15.6	3.5	1.7	2.2	3.6	6.9	7.4	9.7	3.6	100.

NUMBER OF OBS = 743

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

NOVEMBER

	WIND DIRECTION																	
HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	16.7	3.3	3.3	00.0	6.7	00.0	00.0	10.0	6.7	3.3	6.7	00.0	6.7	10.0	13.3	10.0	3.3	100.
2	13.3	6.7	6.7	00.0	00.0	3.3	00.0	6.7	13.3	00.0	6.7	00.0	10.0	3.3	16.7	10.0	3.3	100.
3	10.0	3.3	3.3	3.3	00.0	6.7	6.7	3.3	10.0	6.7	10.0	00.0	3.3	3.3	13.3	13.3	3.3	100.
4	10.0	3.3	00.0	00.0	6.7	3.3	00.0	10.0	10.0	13.3	3.3	00.0	00.0	6.7	23.3	3.3	6.7	100.
5	13.3	6.7	00.0	10.0	3.3	3.3	3.3	6.7	13.3	3.3	00.0	3.3	00.0	13.3	6.7	10.0	3.3	100.
6	16.7	3.3	3.3	00.0	6.7	00.0	6.7	10.0	6.7	6.7	00.0	6.7	00.0	6.7	10.0	13.3	3.3	100.
7	10.0	3.3	00.0	6.7	00.0	00.0	16.7	00.0	13.3	6.7	00.0	3.3	00.0	13.3	6.7	13.3	6.7	100.
8	3.3	3.3	6.7	6.7	00.0	10.0	3.3	13.3	6.7	3.3	3.3	00.0	3.3	10.0	10.0	13.3	3.3	100.
9	6.7	6.7	00.0	00.0	00.0	20.0	10.0	6.7	3.3	3.3	10.0	3.3	00.0	6.7	6.7	13.3	3.3	100.
10	13.3	3.3	00.0	00.0	3.3	10.0	10.0	6.7	10.0	00.0	10.0	00.0	3.3	10.0	3.3	16.7	00.0	100.
11	16.7	3.3	3.3	3.3	00.0	6.7	10.0	3.3	6.7	6.7	3.3	6.7	3.3	10.0	3.3	13.3	00.0	100.
12	3.3	6.7	3.3	00.0	00.0	13.3	3.3	10.0	10.0	3.3	6.7	00.0	6.7	6.7	10.0	16.7	00.0	100.
13	6.7	6.7	3.3	00.0	00.0	6.7	6.7	6.7	10.0	00.0	6.7	3.3	6.7	6.7	16.7	13.3	00.0	100.
14	6.7	13.3	00.0	00.0	00.0	6.7	10.0	00.0	16.7	00.0	6.7	00.0	00.0	20.0	10.0	10.0	00.0	100.
15	10.0	6.7	3.3	00.0	3.3	3.3	6.7	3.3	16.7	00.0	6.7	3.3	00.0	13.3	10.0	13.3	00.0	100.
16	13.3	6.7	00.0	3.3	3.3	10.0	00.0	3.3	10.0	13.3	00.0	3.3	00.0	3.3	16.7	13.3	00.0	100.
17	26.7	3.3	00.0	6.7	00.0	6.7	3.3	3.3	13.3	6.7	00.0	3.3	3.3	3.3	13.3	6.7	00.0	100.
18	10.0	6.7	00.0	00.0	3.3	6.7	3.3	3.3	13.3	6.7	3.3	3.3	00.0	3.3	20.0	16.7	00.0	100.
19	16.7	00.0	3.3	00.0	00.0	6.7	3.3	3.3	20.0	3.3	00.0	3.3	3.3	6.7	13.3	16.7	00.0	100.
20	16.7	00.0	00.0	00.0	00.0	10.0	00.0	10.0	13.3	00.0	00.0	6.7	10.0	3.3	16.7	10.0	3.3	100.
21	16.7	3.3	00.0	00.0	3.3	00.0	6.7	10.0	13.3	6.7	00.0	00.0	00.0	3.3	20.0	10.0	6.7	100.
22	20.0	6.7	00.0	00.0	6.7	3.3	6.7	00.0	13.3	3.3	00.0	00.0	00.0	00.0	16.7	16.7	6.7	100.
23	16.7	10.0	00.0	00.0	00.0	3.3	10.0	3.3	6.7	3.3	6.7	6.7	3.3	3.3	10.0	10.0	6.7	100.
24	17.2	6.9	3.4	00.0	3.4	00.0	3.4	13.8	6.9	3.4	00.0	3.4	3.4	6.9	10.3	13.8	3.4	100.
ALL	12.9	5.1	1.8	1.7	2.1	5.8	5.4	6.1	11.0	4.3	3.8	2.5	2.8	7.2	12.4	12.4	2.6	100.

NUMBER OF OBS = 719

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

DECEMBER

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	9.7	3.2	3.2	00.0	6.5	3.2	3.2	9.7	12.9	9.7	3.2	00.0	3.2	3.2	12.9	9.7	6.5	100.
2	12.9	3.2	00.0	3.2	3.2	3.2	3.2	3.2	19.4	3.2	3.2	3.2	6.5	3.2	19.4	6.5	3.2	100.
3	16.1	00.0	3.2	3.2	3.2	3.2	6.5	6.5	16.1	9.7	3.2	3.2	3.2	6.5	12.9	3.2	00.0	100.
4	16.1	6.5	00.0	6.5	00.0	3.2	6.5	16.1	16.1	3.2	3.2	3.2	3.2	9.7	6.5	00.0	00.0	100.
5	9.7	3.2	00.0	6.5	3.2	00.0	00.0	19.4	16.1	6.5	3.2	3.2	3.2	6.5	12.9	3.2	3.2	100.
6	6.5	9.7	3.2	3.2	00.0	3.2	6.5	6.5	22.6	3.2	6.5	3.2	3.2	3.2	9.7	6.5	3.2	100.
7	6.5	9.7	00.0	9.7	00.0	3.2	9.7	12.9	12.9	3.2	3.2	00.0	00.0	3.2	16.1	9.7	00.0	100.
8	16.1	00.0	3.2	00.0	6.5	3.2	9.7	6.5	22.6	6.5	3.2	3.2	00.0	3.2	3.2	12.9	00.0	100.
9	12.9	3.2	3.2	00.0	3.2	9.7	3.2	12.9	19.4	3.2	00.0	9.7	00.0	00.0	6.5	9.7	3.2	100.
10	12.9	6.5	00.0	00.0	6.5	00.0	12.9	19.4	9.7	12.9	00.0	6.5	00.0	3.2	3.2	6.5	00.0	100.
11	12.9	3.2	00.0	3.2	00.0	3.2	16.1	6.5	12.9	9.7	9.7	3.2	3.2	00.0	6.5	9.7	00.0	100.
12	9.7	6.5	00.0	00.0	00.0	3.2	19.4	3.2	19.4	6.5	9.7	3.2	00.0	3.2	6.5	9.7	00.0	100.
13	9.7	6.5	00.0	00.0	00.0	6.5	12.9	6.5	19.4	6.5	6.5	6.5	00.0	3.2	9.7	6.5	00.0	100.
14	9.7	9.7	00.0	00.0	3.2	3.2	6.5	9.7	12.9	12.9	9.7	6.5	00.0	00.0	12.9	3.2	00.0	100.
15	3.2	6.5	3.2	00.0	6.5	3.2	6.5	12.9	12.9	6.5	9.7	9.7	00.0	00.0	12.9	6.5	00.0	100.
16	6.5	3.2	3.2	6.5	00.0	3.2	3.2	19.4	12.9	3.2	12.9	3.2	3.2	00.0	12.9	6.5	00.0	100.
17	12.9	3.2	9.7	00.0	00.0	3.2	9.7	6.5	16.1	12.9	6.5	3.2	3.2	00.0	9.7	3.2	00.0	100.
18	19.4	6.5	00.0	00.0	00.0	00.0	3.2	16.1	16.1	00.0	16.1	6.5	00.0	6.5	6.5	3.2	00.0	100.
19	16.1	3.2	3.2	00.0	00.0	00.0	3.2	12.9	16.1	3.2	6.5	12.9	6.5	3.2	9.7	3.2	00.0	100.
20	6.5	9.7	3.2	00.0	00.0	00.0	00.0	16.1	22.6	3.2	3.2	6.5	9.7	3.2	9.7	6.5	00.0	100.
21	9.7	16.1	00.0	00.0	3.2	00.0	3.2	12.9	19.4	00.0	3.2	3.2	3.2	6.5	12.9	3.2	3.2	100.
22	6.5	6.5	3.2	3.2	3.2	00.0	3.2	9.7	19.4	6.5	00.0	00.0	3.2	6.5	12.9	12.9	3.2	100.
23	12.9	6.5	00.0	3.2	00.0	3.2	9.7	6.5	22.6	3.2	3.2	3.2	3.2	6.5	16.1	00.0	00.0	100.
24	12.9	9.7	3.2	3.2	6.5	00.0	00.0	16.1	9.7	3.2	3.2	6.5	3.2	3.2	19.4	00.0	00.0	100.
ALL	11.2	5.9	1.9	2.2	2.3	2.6	6.6	11.2	16.7	5.8	5.4	4.6	2.6	3.5	10.9	5.9	1.1	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

OCT-DEC

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	14.1	4.3	3.3	00.0	6.5	2.2	2.2	9.8	12.0	5.4	4.3	1.1	4.3	6.5	10.9	8.7	4.3	100.
2	13.0	3.3	2.2	2.2	3.3	4.3	5.4	4.3	16.3	2.2	3.3	1.1	6.5	5.4	15.2	7.6	4.3	100.
3	12.0	2.2	4.3	2.2	2.2	6.5	7.6	4.3	12.0	6.5	4.3	1.1	3.3	5.4	10.9	10.9	4.3	100.
4	13.0	4.3	1.1	3.3	3.3	4.3	4.3	9.8	12.0	5.4	3.3	2.2	3.3	6.5	13.0	5.4	5.4	100.
5	10.9	5.4	2.2	5.4	4.3	2.2	3.3	10.9	15.2	4.3	3.3	3.3	2.2	8.7	7.6	5.4	5.4	100.
6	9.8	7.6	2.2	3.3	4.3	3.3	5.4	8.7	12.0	3.3	2.2	3.3	4.3	5.4	7.6	8.7	8.7	100.
7	8.7	5.4	1.1	5.4	3.3	3.3	10.9	6.5	13.0	6.5	2.2	1.1	2.2	7.6	8.7	9.8	4.3	100.
8	10.9	1.1	4.3	2.2	5.4	6.5	6.5	8.7	15.2	5.4	2.2	1.1	2.2	7.6	4.3	13.0	3.3	100.
9	10.9	3.3	1.1	00.0	3.3	15.2	5.4	13.0	13.0	3.3	3.3	4.3	1.1	6.5	4.3	8.7	3.3	100.
10	9.8	6.5	00.0	00.0	5.4	5.4	13.0	10.9	12.0	9.8	3.3	2.2	2.2	7.6	3.3	8.7	00.0	100.
11	10.9	4.3	3.3	2.2	00.0	6.5	13.0	7.6	12.0	6.5	5.4	6.5	2.2	4.3	5.4	9.8	00.0	100.
12	4.3	8.7	1.1	00.0	2.2	8.7	12.0	8.7	14.1	3.3	6.5	2.2	5.4	5.4	6.5	10.9	00.0	100.
13	6.6	7.7	1.1	00.0	1.1	9.9	8.8	8.8	14.3	3.3	4.4	5.5	3.3	6.6	9.9	8.8	00.0	100.
14	7.6	9.8	00.0	1.1	1.1	8.7	8.7	6.5	15.2	4.3	6.5	2.2	1.1	8.7	10.9	7.6	00.0	100.
15	4.3	8.7	2.2	00.0	5.4	5.4	8.7	8.7	15.2	2.2	5.4	6.5	1.1	4.3	12.0	9.8	00.0	100.
16	9.8	3.3	2.2	3.3	2.2	8.7	5.4	9.8	14.1	5.4	5.4	4.3	1.1	2.2	12.0	10.9	00.0	100.
17	15.2	3.3	4.3	3.3	1.1	6.5	7.6	4.3	18.5	6.5	4.3	3.3	2.2	1.1	10.9	7.6	00.0	100.
18	10.9	6.5	00.0	00.0	3.3	3.3	6.5	8.7	15.2	5.4	6.5	3.3	00.0	3.3	14.1	13.0	00.0	100.
19	14.1	1.1	2.2	00.0	1.1	5.4	3.3	8.7	18.5	2.2	2.2	7.6	4.3	5.4	10.9	13.0	00.0	100.
20	10.9	4.3	1.1	00.0	1.1	6.5	2.2	10.9	18.5	2.2	1.1	4.3	7.6	5.4	13.0	9.8	1.1	100.
21	12.0	7.6	00.0	00.0	3.3	3.3	6.5	8.7	15.2	3.3	1.1	1.1	2.2	7.6	15.2	9.8	3.3	100.
22	14.1	4.3	1.1	1.1	3.3	2.2	8.7	5.4	16.3	3.3	1.1	00.0	2.2	4.3	14.1	14.1	4.3	100.
23	15.2	5.4	00.0	3.3	00.0	3.3	9.8	4.3	15.2	4.3	4.3	3.3	3.3	6.5	14.1	4.3	3.3	100.
24	14.3	6.6	2.2	3.3	4.4	00.0	5.5	11.0	12.1	4.4	1.1	3.3	4.4	7.7	9.9	6.6	3.3	100.
ALL	11.0	5.2	1.8	1.7	2.9	5.5	7.1	8.3	14.5	4.5	3.6	3.1	3.0	5.8	10.2	9.3	2.4	100.

NUMBER OF OBS = 2206

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JUL-DEC

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	13.0	3.3	1.6	1.1	3.8	4.3	3.3	9.2	15.2	5.4	4.3	1.6	4.3	5.4	10.3	7.6	6.0	100.
2	8.7	4.9	1.6	1.6	2.2	3.3	5.4	6.5	16.3	4.9	3.3	2.2	6.5	3.8	12.5	10.3	6.0	100.
3	8.7	3.8	3.3	2.2	1.6	4.9	6.0	6.0	13.0	7.6	4.3	2.7	5.4	6.5	9.2	9.2	5.4	100.
4	12.0	4.9	2.2	1.6	1.6	3.3	2.7	10.9	15.2	6.0	3.8	3.3	3.8	5.4	9.8	7.6	6.0	100.
5	12.0	4.9	2.2	3.8	2.2	2.7	2.7	9.2	14.1	8.7	4.9	2.7	3.3	7.6	7.6	4.3	7.1	100.
6	10.3	4.9	3.3	3.3	3.3	2.7	4.9	8.2	14.7	4.9	2.2	3.3	4.9	3.8	8.7	6.5	10.3	100.
7	10.3	4.3	3.3	3.8	2.2	6.0	6.5	7.6	13.6	8.2	3.8	2.2	1.6	4.9	7.6	8.2	6.0	100.
8	9.8	2.7	3.8	2.2	3.3	7.1	8.2	13.6	16.3	6.5	2.7	2.2	3.3	4.3	3.3	7.6	3.3	100.
9	8.7	4.3	2.2	2.2	6.0	10.9	7.6	12.5	16.8	4.3	3.8	2.2	2.2	3.3	4.9	6.0	2.2	100.
10	7.6	6.5	2.7	2.2	5.4	8.7	10.3	9.8	16.8	10.3	2.2	1.6	1.6	6.0	3.3	4.9	00.0	100.
11	8.2	4.9	3.3	2.7	3.8	8.2	12.0	9.2	16.3	9.2	3.3	4.9	1.6	2.7	3.3	6.5	00.0	100.
12	6.0	6.0	3.3	.5	4.3	7.6	15.2	9.8	17.4	4.9	3.3	2.2	5.4	2.7	5.4	6.0	00.0	100.
13	7.7	8.7	1.6	1.6	2.7	8.2	10.4	8.2	21.9	4.4	3.3	3.3	2.2	3.8	6.6	5.5	00.0	100.
14	7.1	8.2	1.1	2.7	2.7	6.5	10.9	8.2	20.1	6.0	4.9	2.7	1.1	5.4	8.2	4.3	00.0	100.
15	6.0	9.2	1.1	1.6	4.3	4.9	12.0	11.4	19.0	4.3	3.3	3.8	1.1	4.3	7.6	6.0	00.0	100.
16	9.2	4.3	1.1	3.3	4.9	6.5	7.6	12.0	17.4	6.0	4.3	2.7	1.6	2.7	7.1	9.2	00.0	100.
17	14.1	2.2	2.2	4.3	3.8	6.0	6.0	12.5	18.5	6.5	2.7	2.7	2.2	.5	7.6	8.2	00.0	100.
18	9.2	4.9	3.3	1.1	4.9	3.8	8.7	15.2	13.0	6.5	4.3	2.7	00.0	2.2	9.2	10.9	00.0	100.
19	10.3	1.6	2.2	3.3	2.2	7.1	5.4	14.1	12.0	5.4	3.3	4.9	3.3	3.8	8.2	13.0	00.0	100.
20	9.8	2.7	2.2	2.2	2.2	6.0	4.3	12.5	14.7	5.4	1.6	4.3	6.0	5.4	8.7	11.4	.5	100.
21	10.3	5.4	1.1	1.1	2.7	4.3	5.4	6.0	15.8	7.6	2.7	2.7	2.7	8.2	11.4	9.8	2.7	100.
22	10.9	2.7	2.2	.5	2.2	1.6	6.5	6.0	16.3	8.2	2.7	1.6	2.2	7.1	12.0	13.0	4.3	100.
23	12.0	3.8	1.1	1.6	.5	3.3	8.7	4.3	18.5	6.0	2.2	3.8	2.2	5.4	12.5	10.3	3.8	100.
24	10.9	5.5	2.2	2.2	2.7	2.2	6.0	9.3	15.3	6.6	2.2	3.3	4.9	6.6	9.3	7.1	3.8	100.
ALL	9.7	4.8	2.2	2.2	3.1	5.4	7.4	9.7	16.2	6.4	3.3	2.9	3.1	4.7	8.1	8.1	2.8	100.

NUMBER OF OBS = 4414

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JAN-DEC

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	12.1	4.9	1.9	1.1	2.2	3.8	4.4	7.1	14.0	5.5	4.4	3.3	4.1	6.3	10.2	9.9	4.7	100.
2	8.8	4.9	2.7	1.4	1.9	2.7	4.9	6.6	13.5	5.8	4.4	4.7	6.0	5.5	11.3	10.4	4.4	100.
3	8.8	5.5	3.0	1.6	1.6	3.3	4.7	6.3	12.4	7.1	4.1	4.1	4.4	8.8	8.0	11.3	4.9	100.
4	10.4	5.8	3.3	1.6	1.6	3.3	2.7	9.3	12.1	6.9	3.8	3.3	3.0	7.7	9.9	11.3	3.8	100.
5	10.7	5.8	3.8	2.2	1.6	2.7	4.1	7.7	12.1	8.0	3.8	3.3	3.3	8.5	9.1	8.2	4.9	100.
6	11.8	5.2	3.6	2.5	2.7	2.5	4.4	6.6	13.2	4.9	3.6	2.7	4.1	6.0	9.9	9.1	7.1	100.
7	10.5	6.1	3.3	3.9	1.7	4.4	5.5	6.6	13.2	7.4	4.7	2.5	3.0	6.1	8.3	7.7	5.2	100.
8	10.2	4.4	4.4	2.7	2.7	4.7	8.0	10.7	13.2	5.8	4.1	1.9	3.6	5.5	7.1	8.8	2.2	100.
9	9.9	6.3	3.0	2.5	5.2	7.2	8.3	9.6	12.7	5.5	4.1	2.5	3.0	3.3	8.3	7.2	1.4	100.
10	8.5	7.9	3.0	1.9	4.7	7.4	9.9	7.7	13.7	7.7	3.3	2.7	2.2	4.9	6.8	7.7	00.0	100.
11	8.8	6.6	3.6	3.0	4.1	6.3	11.0	7.7	12.3	7.4	4.4	3.3	2.7	2.7	7.1	9.0	00.0	100.
12	8.5	6.0	3.8	1.6	3.8	7.7	11.2	8.2	13.2	6.3	3.6	2.5	4.1	3.0	7.4	9.0	00.0	100.
13	8.5	7.4	2.5	2.5	3.3	5.8	10.4	6.9	15.4	7.1	3.6	3.0	2.5	4.1	8.5	8.5	00.0	100.
14	8.8	7.4	1.9	2.5	3.3	6.0	9.0	7.4	14.2	9.3	3.3	3.6	1.4	5.2	9.6	7.1	00.0	100.
15	8.5	7.4	3.0	3.0	3.3	3.8	9.9	9.9	14.0	7.4	3.8	3.3	2.2	4.1	9.9	6.6	00.0	100.
16	9.9	4.9	3.0	3.3	3.3	6.0	6.6	9.6	14.8	7.4	5.2	2.2	2.5	4.1	8.2	9.0	00.0	100.
17	11.5	4.1	3.6	3.8	2.5	4.9	7.1	10.1	15.1	7.4	4.1	3.0	2.5	1.9	7.9	10.4	00.0	100.
18	10.4	4.7	4.1	1.9	3.8	4.1	7.9	12.9	11.8	7.4	3.6	2.7	1.6	3.0	7.9	12.1	00.0	100.
19	8.5	3.6	3.0	4.1	2.5	5.2	7.4	12.3	11.2	5.5	4.4	3.6	3.3	3.0	8.2	13.7	.5	100.
20	8.2	4.7	2.2	2.7	4.1	4.1	5.8	10.1	14.2	6.8	3.3	3.6	3.8	4.7	9.6	11.5	.5	100.
21	9.9	6.0	1.9	1.9	2.7	3.6	4.9	6.8	15.9	6.8	3.0	3.8	3.0	7.4	9.0	11.2	1.9	100.
22	11.8	3.8	2.5	1.4	2.2	1.9	5.8	6.0	13.5	8.5	4.7	3.0	3.8	6.6	9.3	12.4	2.7	100.
23	9.6	4.4	1.6	2.2	.8	2.2	8.0	4.7	15.9	7.1	3.3	4.4	3.0	6.6	11.3	12.1	2.7	100.
24	9.9	5.8	2.2	1.4	2.2	2.8	6.4	6.6	14.4	6.6	4.1	4.1	3.6	7.7	9.1	9.7	3.3	100.
ALL	9.8	5.6	3.0	2.4	2.8	4.4	7.0	8.2	13.6	6.9	3.9	3.2	3.2	5.3	8.8	9.7	2.1	100.

NUMBER OF OBS = 8743

Wind Direction Frequencies

100-Meter Level

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JANUARY

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	3.3	6.7	00.0	00.0	00.0	00.0	6.7	3.3	13.3	3.3	00.0	10.0	10.0	10.0	10.0	23.3	00.0	100.
2	00.0	3.3	3.3	00.0	00.0	00.0	00.0	3.3	13.3	10.0	00.0	10.0	3.3	10.0	16.7	26.7	00.0	100.
3	00.0	6.5	3.2	00.0	00.0	3.2	00.0	3.2	12.9	6.5	00.0	3.2	00.0	19.4	22.6	19.4	00.0	100.
4	3.2	00.0	6.5	00.0	00.0	3.2	00.0	00.0	16.1	3.2	3.2	3.2	3.2	12.9	22.6	22.6	00.0	100.
5	6.5	3.2	3.2	00.0	00.0	00.0	3.2	3.2	9.7	9.7	00.0	6.5	00.0	12.9	12.9	29.0	00.0	100.
6	3.2	3.2	3.2	00.0	00.0	3.2	3.2	3.2	12.9	3.2	00.0	6.5	00.0	9.7	25.8	22.6	00.0	100.
7	3.2	6.5	3.2	00.0	00.0	00.0	00.0	9.7	12.9	00.0	6.5	3.2	3.2	9.7	16.1	25.8	00.0	100.
8	00.0	6.7	3.3	00.0	00.0	00.0	00.0	13.3	6.7	3.3	6.7	3.3	3.3	13.3	10.0	30.0	00.0	100.
9	00.0	6.7	00.0	3.3	00.0	00.0	3.3	6.7	6.7	6.7	00.0	10.0	6.7	6.7	16.7	26.7	00.0	100.
10	3.3	6.7	00.0	3.3	00.0	00.0	00.0	3.3	10.0	6.7	00.0	10.0	3.3	10.0	20.0	23.3	00.0	100.
11	3.2	6.5	3.2	00.0	00.0	00.0	00.0	3.2	9.7	6.5	6.5	3.2	9.7	9.7	12.9	25.8	00.0	100.
12	12.9	3.2	3.2	00.0	3.2	00.0	00.0	3.2	6.5	6.5	12.9	00.0	9.7	3.2	19.4	16.1	00.0	100.
13	6.5	3.2	00.0	3.2	3.2	00.0	00.0	3.2	9.7	9.7	9.7	3.2	6.5	6.5	16.1	19.4	00.0	100.
14	6.5	3.2	00.0	3.2	00.0	00.0	00.0	3.2	9.7	12.9	3.2	9.7	3.2	9.7	19.4	16.1	00.0	100.
15	12.9	3.2	00.0	3.2	00.0	00.0	00.0	00.0	6.5	22.6	6.5	3.2	3.2	3.2	25.8	9.7	00.0	100.
16	16.1	3.2	00.0	3.2	00.0	00.0	00.0	00.0	6.5	16.1	12.9	6.5	00.0	3.2	22.6	9.7	00.0	100.
17	16.1	3.2	3.2	00.0	00.0	00.0	00.0	00.0	9.7	16.1	9.7	6.5	3.2	00.0	16.1	16.1	00.0	100.
18	10.0	3.3	3.3	00.0	00.0	00.0	00.0	00.0	10.0	13.3	20.0	00.0	3.3	00.0	6.7	30.0	00.0	100.
19	6.5	3.2	3.2	00.0	00.0	00.0	00.0	3.2	9.7	6.5	22.6	6.5	00.0	3.2	6.5	29.0	00.0	100.
20	3.2	6.5	3.2	00.0	3.2	00.0	00.0	3.2	12.9	00.0	9.7	16.1	3.2	00.0	9.7	29.0	00.0	100.
21	9.7	9.7	3.2	3.2	00.0	00.0	00.0	6.5	9.7	3.2	6.5	12.9	00.0	6.5	6.5	22.6	00.0	100.
22	10.0	6.7	3.3	3.3	00.0	00.0	3.3	00.0	10.0	6.7	6.7	10.0	10.0	6.7	3.3	20.0	00.0	100.
23	3.3	6.7	00.0	3.3	00.0	00.0	00.0	3.3	6.7	13.3	3.3	6.7	10.0	10.0	10.0	23.3	00.0	100.
24	6.5	3.2	3.2	00.0	3.2	6.5	3.2	00.0	9.7	6.5	3.2	6.5	9.7	12.9	9.7	16.1	00.0	100.
ALL	6.1	4.8	2.3	1.2	.5	.7	1.0	3.3	10.1	8.0	6.3	6.5	4.3	7.9	14.9	22.1	00.0	100.

NUMBER OF OBS = 736

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

FEBRUARY

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	21.4	7.1	3.6	3.6	7.1	3.6	00.0	7.1	7.1	3.6	10.7	00.0	3.6	7.1	7.1	7.1	00.0	100.
2	14.8	7.4	3.7	00.0	7.4	7.4	00.0	14.8	00.0	3.7	11.1	00.0	00.0	7.4	14.8	7.4	00.0	100.
3	11.1	14.8	3.7	7.4	00.0	3.7	00.0	7.4	7.4	00.0	14.8	00.0	3.7	7.4	14.8	3.7	00.0	100.
4	18.5	7.4	7.4	3.7	00.0	00.0	3.7	11.1	3.7	7.4	11.1	00.0	00.0	3.7	22.2	00.0	00.0	100.
5	3.7	22.2	3.7	3.7	00.0	00.0	3.7	14.8	00.0	3.7	7.4	7.4	00.0	11.1	11.1	7.4	00.0	100.
6	3.7	22.2	00.0	7.4	00.0	00.0	3.7	14.8	00.0	3.7	7.4	7.4	00.0	3.7	18.5	7.4	00.0	100.
7	7.4	18.5	3.7	3.7	00.0	00.0	3.7	11.1	3.7	3.7	7.4	00.0	7.4	3.7	18.5	7.4	00.0	100.
8	11.5	7.7	3.8	00.0	3.8	3.8	3.8	7.7	00.0	7.7	3.8	3.8	00.0	15.4	15.4	11.5	00.0	100.
9	11.5	7.7	00.0	3.8	3.8	3.8	00.0	7.7	00.0	7.7	7.7	00.0	3.8	7.7	19.2	15.4	00.0	100.
10	11.5	11.5	00.0	00.0	11.5	00.0	00.0	7.7	00.0	11.5	00.0	00.0	3.8	7.7	23.1	11.5	00.0	100.
11	14.3	10.7	00.0	3.6	3.6	3.6	00.0	10.7	3.6	7.1	3.6	3.6	00.0	3.6	28.6	3.6	00.0	100.
12	14.3	10.7	3.6	00.0	3.6	7.1	00.0	10.7	3.6	10.7	3.6	00.0	00.0	7.1	21.4	3.6	00.0	100.
13	14.3	7.1	00.0	00.0	7.1	7.1	00.0	10.7	10.7	3.6	00.0	3.6	7.1	00.0	17.9	10.7	00.0	100.
14	10.7	10.7	00.0	00.0	7.1	7.1	00.0	7.1	17.9	3.6	00.0	00.0	7.1	3.6	21.4	3.6	00.0	100.
15	10.7	7.1	3.6	00.0	3.6	7.1	00.0	10.7	14.3	3.6	00.0	3.6	3.6	7.1	17.9	7.1	00.0	100.
16	7.1	7.1	3.6	00.0	00.0	10.7	00.0	10.7	14.3	3.6	00.0	00.0	10.7	7.1	10.7	14.3	00.0	100.
17	3.6	7.1	3.6	00.0	3.6	7.1	00.0	10.7	14.3	3.6	3.6	3.6	3.6	3.6	14.3	17.9	00.0	100.
18	3.6	7.1	3.6	3.6	3.6	3.6	3.6	14.3	10.7	00.0	3.6	3.6	00.0	3.6	14.3	21.4	00.0	100.
19	3.6	7.1	00.0	7.1	7.1	3.6	00.0	17.9	10.7	00.0	10.7	00.0	00.0	00.0	14.3	17.9	00.0	100.
20	3.6	7.1	00.0	7.1	00.0	7.1	7.1	17.9	3.6	7.1	3.6	3.6	00.0	00.0	14.3	17.9	00.0	100.
21	3.6	7.1	3.6	3.6	00.0	3.6	7.1	14.3	10.7	10.7	00.0	00.0	3.6	00.0	7.1	25.0	00.0	100.
22	17.9	7.1	7.1	00.0	00.0	7.1	3.6	7.1	10.7	17.9	00.0	00.0	00.0	3.6	10.7	7.1	00.0	100.
23	14.3	3.6	7.1	3.6	00.0	7.1	3.6	10.7	3.6	10.7	3.6	7.1	00.0	3.6	3.6	17.9	00.0	100.
24	14.3	10.7	3.6	3.6	3.6	3.6	3.6	3.6	7.1	10.7	3.6	00.0	3.6	7.1	7.1	14.3	00.0	100.
ALL	10.5	9.8	2.9	2.7	3.2	4.5	2.0	10.9	6.7	6.1	4.8	2.0	2.6	5.2	15.3	10.9	00.0	100.

NUMBER OF OBS = 660

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

MARCH

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	6.5	3.2	3.2	00.0	3.2	6.5	3.2	19.4	3.2	6.5	00.0	9.7	3.2	3.2	16.1	12.9	00.0	100.
2	3.2	3.2	6.5	00.0	6.5	3.2	3.2	12.9	9.7	6.5	3.2	6.5	00.0	6.5	16.1	12.9	00.0	100.
3	3.2	3.2	6.5	00.0	6.5	3.2	3.2	9.7	6.5	9.7	3.2	9.7	00.0	9.7	9.7	16.1	00.0	100.
4	3.2	3.2	00.0	3.2	3.2	12.9	00.0	16.1	6.5	9.7	00.0	6.5	00.0	9.7	16.1	9.7	00.0	100.
5	6.5	3.2	00.0	3.2	6.5	9.7	9.7	6.5	6.5	6.5	6.5	00.0	3.2	12.9	9.7	9.7	00.0	100.
6	9.7	00.0	00.0	3.2	9.7	3.2	9.7	6.5	6.5	9.7	00.0	9.7	3.2	9.7	12.9	6.5	00.0	100.
7	6.5	3.2	00.0	3.2	6.5	9.7	6.5	9.7	3.2	9.7	3.2	6.5	3.2	12.9	16.1	00.0	00.0	100.
8	6.5	3.2	00.0	6.5	00.0	9.7	9.7	9.7	6.5	12.9	00.0	3.2	3.2	9.7	16.1	3.2	00.0	100.
9	12.9	00.0	3.2	3.2	3.2	00.0	9.7	16.1	3.2	12.9	3.2	3.2	3.2	3.2	12.9	9.7	00.0	100.
10	16.1	3.2	00.0	00.0	3.2	3.2	9.7	9.7	3.2	22.6	3.2	3.2	3.2	00.0	16.1	3.2	00.0	100.
11	6.5	12.9	00.0	00.0	3.2	3.2	12.9	6.5	12.9	9.7	3.2	00.0	6.5	6.5	9.7	6.5	00.0	100.
12	12.9	6.5	00.0	3.2	00.0	6.5	12.9	00.0	19.4	9.7	00.0	3.2	00.0	6.5	12.9	6.5	00.0	100.
13	9.7	6.5	00.0	6.5	00.0	6.5	9.7	12.9	6.5	6.5	9.7	00.0	3.2	6.5	9.7	6.5	00.0	100.
14	3.2	3.2	00.0	00.0	00.0	6.5	12.9	19.4	3.2	6.5	6.5	6.5	00.0	3.2	12.9	16.1	00.0	100.
15	3.3	10.0	00.0	3.3	00.0	3.3	10.0	16.7	10.0	10.0	6.7	3.3	00.0	3.3	16.7	3.3	00.0	100.
16	6.7	00.0	10.0	00.0	3.3	00.0	3.3	23.3	13.3	3.3	10.0	3.3	3.3	00.0	13.3	6.7	00.0	100.
17	3.2	00.0	3.2	3.2	3.2	3.2	6.5	12.9	12.9	9.7	12.9	3.2	00.0	3.2	12.9	9.7	00.0	100.
18	6.5	3.2	3.2	3.2	6.5	00.0	6.5	16.1	12.9	12.9	3.2	6.5	00.0	3.2	9.7	6.5	00.0	100.
19	3.2	3.2	00.0	00.0	9.7	3.2	12.9	16.1	9.7	9.7	6.5	00.0	00.0	6.5	6.5	12.9	00.0	100.
20	3.2	3.2	00.0	00.0	12.9	00.0	16.1	12.9	16.1	3.2	6.5	00.0	00.0	6.5	6.5	12.9	00.0	100.
21	3.2	3.2	00.0	3.2	9.7	00.0	9.7	16.1	16.1	3.2	3.2	3.2	00.0	9.7	6.5	12.9	00.0	100.
22	00.0	00.0	3.2	3.2	00.0	9.7	9.7	16.1	16.1	3.2	3.2	6.5	00.0	12.9	00.0	16.1	00.0	100.
23	3.2	00.0	00.0	3.2	3.2	9.7	9.7	12.9	12.9	00.0	3.2	9.7	00.0	6.5	6.5	19.4	00.0	100.
24	9.7	00.0	00.0	3.2	00.0	16.1	00.0	19.4	3.2	6.5	6.5	6.5	3.2	9.7	3.2	12.9	00.0	100.
ALL	6.2	3.2	1.6	2.3	4.2	5.4	8.2	13.2	9.2	8.4	4.3	4.6	1.6	6.7	11.2	9.7	00.0	100.

NUMBER OF OBS = 742

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JAN-MAR

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	10.1	5.6	2.2	1.1	3.4	3.4	3.4	10.1	7.9	4.5	3.4	6.7	5.6	6.7	11.2	14.6	00.0	100.
2	5.7	4.5	4.5	00.0	4.5	3.4	1.1	10.2	8.0	6.8	4.5	5.7	1.1	8.0	15.9	15.9	00.0	100.
3	4.5	7.9	4.5	2.2	2.2	3.4	1.1	6.7	9.0	5.6	5.6	4.5	1.1	12.4	15.7	13.5	00.0	100.
4	7.9	3.4	4.5	2.2	1.1	5.6	1.1	9.0	9.0	6.7	4.5	3.4	1.1	9.0	20.2	11.2	00.0	100.
5	5.6	9.0	2.2	2.2	2.2	3.4	5.6	7.9	5.6	6.7	4.5	4.5	1.1	12.4	11.2	15.7	00.0	100.
6	5.6	7.9	1.1	3.4	3.4	2.2	5.6	7.9	6.7	5.6	2.2	7.9	1.1	7.9	19.1	12.4	00.0	100.
7	5.6	9.0	2.2	2.2	2.2	3.4	3.4	10.1	6.7	4.5	5.6	3.4	4.5	9.0	16.9	11.2	00.0	100.
8	5.7	5.7	2.3	2.3	1.1	4.6	4.6	10.3	4.6	8.0	3.4	3.4	2.3	12.6	13.8	14.9	00.0	100.
9	8.0	4.6	1.1	3.4	2.3	1.1	4.6	10.3	3.4	9.2	3.4	4.6	4.6	5.7	16.1	17.2	00.0	100.
10	10.3	6.9	00.0	1.1	4.6	1.1	3.4	6.9	4.6	13.8	1.1	4.6	3.4	5.7	19.5	12.6	00.0	100.
11	7.8	10.0	1.1	1.1	2.2	2.2	4.4	6.7	8.9	7.8	4.4	2.2	5.6	6.7	16.7	12.2	00.0	100.
12	13.3	6.7	2.2	1.1	2.2	4.4	4.4	4.4	10.0	8.9	5.6	1.1	3.3	5.6	17.8	8.9	00.0	100.
13	10.0	5.6	00.0	3.3	3.3	4.4	3.3	8.9	8.9	6.7	6.7	2.2	5.6	4.4	14.4	12.2	00.0	100.
14	6.7	5.6	00.0	1.1	2.2	4.4	4.4	10.0	10.0	7.8	3.3	5.6	3.3	5.6	17.8	12.2	00.0	100.
15	9.0	6.7	1.1	2.2	1.1	3.4	3.4	9.0	10.1	12.4	4.5	3.4	2.2	4.5	20.2	6.7	00.0	100.
16	10.1	3.4	4.5	1.1	1.1	3.4	1.1	11.2	11.2	7.9	7.9	3.4	4.5	3.4	15.7	10.1	00.0	100.
17	7.8	3.3	3.3	1.1	2.2	3.3	2.2	7.8	12.2	10.0	8.9	4.4	2.2	2.2	14.4	14.4	00.0	100.
18	6.7	4.5	3.4	2.2	3.4	1.1	3.4	10.1	11.2	9.0	9.0	3.4	1.1	2.2	10.1	19.1	00.0	100.
19	4.4	4.4	1.1	2.2	5.6	2.2	4.4	12.2	10.0	5.6	13.3	2.2	00.0	3.3	8.9	20.0	00.0	100.
20	3.3	5.6	1.1	2.2	5.6	2.2	7.8	11.1	11.1	3.3	6.7	6.7	1.1	2.2	10.0	20.0	00.0	100.
21	5.6	6.7	2.2	3.3	3.3	1.1	5.6	12.2	12.2	5.6	3.3	5.6	1.1	5.6	6.7	20.0	00.0	100.
22	9.0	4.5	4.5	2.2	00.0	5.6	5.6	7.9	12.4	9.0	3.4	5.6	3.4	7.9	4.5	14.6	00.0	100.
23	6.7	3.4	2.2	3.4	1.1	5.6	4.5	9.0	7.9	7.9	3.4	7.9	3.4	6.7	6.7	20.2	00.0	100.
24	10.0	4.4	2.2	2.2	2.2	8.9	2.2	7.8	6.7	7.8	4.4	4.4	5.6	10.0	6.7	14.4	00.0	100.
ALL	7.5	5.8	2.2	2.1	2.6	3.5	3.8	9.1	8.7	7.5	5.1	4.4	2.9	6.6	13.8	14.4	00.0	100.

NUMBER OF OBS = 2138

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

APRIL

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	6.7	00.0	6.7	3.3	3.3	16.7	10.0	13.3	6.7	3.3	00.0	00.0	00.0	6.7	13.3	10.0	00.0	100.
2	3.3	3.3	3.3	3.3	10.0	6.7	6.7	16.7	10.0	00.0	3.3	00.0	3.3	10.0	6.7	13.3	00.0	100.
3	3.3	3.3	10.0	00.0	6.7	6.7	10.0	13.3	10.0	00.0	3.3	00.0	00.0	10.0	10.0	13.3	00.0	100.
4	3.3	3.3	6.7	3.3	3.3	6.7	13.3	10.0	10.0	3.3	00.0	3.3	3.3	6.7	10.0	13.3	00.0	100.
5	10.0	3.3	6.7	00.0	10.0	6.7	6.7	10.0	10.0	3.3	00.0	00.0	3.3	10.0	6.7	13.3	00.0	100.
6	6.7	3.3	6.7	3.3	6.7	6.7	3.3	16.7	13.3	00.0	00.0	00.0	3.3	10.0	3.3	16.7	00.0	100.
7	10.3	00.0	3.4	6.9	6.9	10.3	3.4	6.9	10.3	10.3	00.0	3.4	00.0	00.0	10.3	17.2	00.0	100.
8	17.2	00.0	00.0	6.9	6.9	6.9	10.3	10.3	3.4	00.0	3.4	6.9	00.0	3.4	6.9	17.2	00.0	100.
9	24.1	00.0	00.0	3.4	6.9	6.9	6.9	17.2	6.9	00.0	00.0	3.4	00.0	00.0	13.8	10.3	00.0	100.
10	20.0	3.3	3.3	00.0	10.0	3.3	6.7	6.7	16.7	00.0	3.3	00.0	00.0	3.3	13.3	10.0	00.0	100.
11	16.7	10.0	00.0	00.0	10.0	3.3	10.0	10.0	10.0	00.0	00.0	6.7	00.0	00.0	16.7	6.7	00.0	100.
12	16.7	10.0	00.0	3.3	6.7	3.3	13.3	10.0	10.0	00.0	00.0	3.3	00.0	00.0	10.0	13.3	00.0	100.
13	16.7	3.3	6.7	00.0	6.7	6.7	16.7	6.7	10.0	00.0	00.0	3.3	00.0	00.0	13.3	10.0	00.0	100.
14	16.7	3.3	6.7	3.3	00.0	00.0	23.3	6.7	13.3	00.0	00.0	3.3	00.0	3.3	13.3	6.7	00.0	100.
15	20.0	3.3	6.7	00.0	3.3	00.0	16.7	16.7	6.7	00.0	00.0	6.7	3.3	3.3	10.0	3.3	00.0	100.
16	16.7	3.3	6.7	00.0	00.0	3.3	10.0	16.7	13.3	00.0	00.0	3.3	6.7	00.0	10.0	10.0	00.0	100.
17	10.0	6.7	6.7	00.0	3.3	3.3	13.3	20.0	6.7	00.0	00.0	00.0	6.7	3.3	10.0	10.0	00.0	100.
18	13.3	6.7	6.7	3.3	00.0	6.7	10.0	16.7	10.0	00.0	00.0	00.0	10.0	00.0	6.7	10.0	00.0	100.
19	6.7	6.7	3.3	10.0	3.3	3.3	13.3	20.0	3.3	00.0	00.0	6.7	3.3	00.0	10.0	10.0	00.0	100.
20	10.0	3.3	3.3	00.0	13.3	10.0	6.7	16.7	3.3	10.0	00.0	00.0	00.0	6.7	10.0	6.7	00.0	100.
21	10.0	3.3	6.7	00.0	6.7	16.7	10.0	13.3	3.3	10.0	00.0	00.0	00.0	6.7	6.7	6.7	00.0	100.
22	10.0	3.3	3.3	3.3	6.7	16.7	10.0	13.3	3.3	6.7	00.0	00.0	00.0	3.3	13.3	6.7	00.0	100.
23	10.0	3.3	3.3	00.0	10.0	10.0	13.3	16.7	00.0	6.7	00.0	00.0	00.0	3.3	10.0	13.3	00.0	100.
24	6.7	3.3	00.0	6.7	6.7	10.0	13.3	13.3	3.3	6.7	00.0	00.0	00.0	3.3	16.7	10.0	00.0	100.
ALL	11.9	3.8	4.5	2.5	6.1	7.1	10.7	13.2	8.1	2.5	.6	2.1	1.8	3.9	10.5	10.7	00.0	100.

NUMBER OF OBS = 717

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

MAY

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	9.7	00.0	9.7	9.7	6.5	9.7	12.9	12.9	3.2	3.2	6.5	00.0	00.0	9.7	3.2	3.2	00.0	100.
2	9.7	3.2	6.5	12.9	9.7	6.5	9.7	9.7	12.9	00.0	6.5	00.0	00.0	6.5	3.2	3.2	00.0	100.
3	6.5	9.7	6.5	12.9	3.2	12.9	3.2	9.7	3.2	12.9	6.5	00.0	00.0	9.7	00.0	3.2	00.0	100.
4	3.2	9.7	9.7	6.5	6.5	12.9	00.0	12.9	00.0	6.5	9.7	6.5	3.2	6.5	00.0	6.5	00.0	100.
5	9.7	6.5	12.9	6.5	6.5	6.5	3.2	9.7	00.0	6.5	6.5	3.2	6.5	9.7	00.0	6.5	00.0	100.
6	6.5	6.5	3.2	19.4	6.5	6.5	00.0	9.7	00.0	00.0	9.7	6.5	3.2	9.7	3.2	9.7	00.0	100.
7	9.7	3.2	3.2	9.7	16.1	6.5	6.5	3.2	00.0	00.0	6.5	9.7	6.5	6.5	00.0	12.9	00.0	100.
8	12.9	6.5	3.2	6.5	9.7	12.9	6.5	00.0	6.5	00.0	3.2	6.5	3.2	9.7	6.5	6.5	00.0	100.
9	16.1	3.2	9.7	00.0	9.7	19.4	6.5	00.0	00.0	3.2	00.0	6.5	3.2	12.9	6.5	3.2	00.0	100.
10	12.9	6.5	6.5	3.2	12.9	9.7	12.9	3.2	00.0	00.0	00.0	3.2	3.2	9.7	9.7	6.5	00.0	100.
11	9.7	9.7	6.5	6.5	19.4	9.7	6.5	3.2	00.0	00.0	00.0	3.2	6.5	6.5	6.5	6.5	00.0	100.
12	16.1	3.2	9.7	3.2	16.1	9.7	9.7	3.2	00.0	00.0	00.0	3.2	6.5	3.2	12.9	3.2	00.0	100.
13	6.5	6.5	9.7	16.1	12.9	6.5	6.5	3.2	00.0	00.0	00.0	00.0	9.7	3.2	9.7	9.7	00.0	100.
14	9.7	3.2	6.5	12.9	16.1	3.2	12.9	00.0	00.0	00.0	00.0	00.0	9.7	3.2	9.7	12.9	00.0	100.
15	16.1	12.9	6.5	9.7	9.7	6.5	12.9	00.0	00.0	00.0	00.0	00.0	6.5	9.7	3.2	6.5	00.0	100.
16	9.7	3.2	12.9	16.1	3.2	9.7	9.7	3.2	00.0	00.0	00.0	00.0	9.7	3.2	6.5	12.9	00.0	100.
17	9.7	12.9	6.5	12.9	3.2	9.7	12.9	00.0	3.2	00.0	00.0	00.0	6.5	6.5	00.0	16.1	00.0	100.
18	6.5	9.7	16.1	9.7	00.0	9.7	16.1	3.2	00.0	00.0	00.0	00.0	6.5	9.7	3.2	9.7	00.0	100.
19	9.7	9.7	12.9	6.5	9.7	6.5	16.1	00.0	00.0	3.2	00.0	3.2	3.2	9.7	3.2	6.5	00.0	100.
20	00.0	9.7	12.9	9.7	16.1	3.2	16.1	00.0	00.0	00.0	3.2	3.2	3.2	9.7	9.7	3.2	00.0	100.
21	3.2	6.5	9.7	9.7	22.6	00.0	19.4	00.0	00.0	00.0	3.2	6.5	3.2	9.7	6.5	00.0	00.0	100.
22	3.2	3.2	12.9	6.5	12.9	3.2	19.4	6.5	00.0	3.2	00.0	9.7	6.5	3.2	9.7	00.0	00.0	100.
23	3.2	9.7	3.2	6.5	6.5	16.1	12.9	6.5	3.2	6.5	00.0	9.7	00.0	12.9	00.0	3.2	00.0	100.
24	6.5	3.2	6.5	9.7	3.2	12.9	12.9	9.7	3.2	6.5	3.2	00.0	6.5	9.7	3.2	3.2	00.0	100.
ALL	8.6	6.6	8.5	9.3	9.9	8.7	10.2	4.6	1.5	2.2	2.7	3.4	4.7	7.9	4.8	6.5	00.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JUNE

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	00.0	00.0	3.3	6.7	3.3	3.3	16.7	16.7	30.0	6.7	3.3	3.3	00.0	00.0	3.3	3.3	00.0	100.
2	00.0	00.0	00.0	10.0	3.3	6.7	6.7	13.3	30.0	16.7	00.0	3.3	00.0	3.3	00.0	6.7	00.0	100.
3	00.0	00.0	3.3	00.0	10.0	00.0	10.0	6.7	40.0	10.0	00.0	10.0	00.0	00.0	00.0	10.0	00.0	100.
4	00.0	3.3	3.3	6.7	3.3	00.0	3.3	13.3	33.3	13.3	6.7	3.3	3.3	00.0	00.0	6.7	00.0	100.
5	00.0	3.3	10.0	00.0	3.3	00.0	6.7	16.7	23.3	10.0	6.7	10.0	00.0	00.0	3.3	6.7	00.0	100.
6	3.3	3.3	3.3	00.0	3.3	6.7	3.3	23.3	26.7	00.0	3.3	6.7	00.0	3.3	6.7	6.7	00.0	100.
7	6.7	3.3	3.3	00.0	6.7	3.3	6.7	16.7	26.7	00.0	3.3	6.7	00.0	6.7	6.7	3.3	00.0	100.
8	3.3	3.3	00.0	13.3	00.0	00.0	10.0	10.0	23.3	10.0	6.7	3.3	3.3	3.3	3.3	6.7	00.0	100.
9	3.3	10.0	3.3	3.3	3.3	00.0	3.3	10.0	23.3	16.7	3.3	00.0	3.3	6.7	00.0	10.0	00.0	100.
10	3.3	3.3	00.0	3.3	6.7	00.0	13.3	3.3	23.3	13.3	6.7	00.0	3.3	3.3	6.7	10.0	00.0	100.
11	3.3	10.0	3.3	00.0	6.7	3.3	16.7	6.7	16.7	20.0	00.0	00.0	00.0	6.7	00.0	6.7	00.0	100.
12	00.0	6.7	6.7	00.0	3.3	13.3	6.7	13.3	16.7	16.7	00.0	00.0	00.0	3.3	3.3	10.0	00.0	100.
13	3.3	3.3	3.3	00.0	3.3	6.7	16.7	10.0	16.7	20.0	00.0	00.0	00.0	3.3	00.0	13.3	00.0	100.
14	3.3	00.0	6.7	3.3	00.0	6.7	16.7	10.0	16.7	20.0	00.0	00.0	00.0	3.3	6.7	6.7	00.0	100.
15	3.3	00.0	6.7	00.0	00.0	6.7	16.7	6.7	30.0	10.0	3.3	3.3	3.3	3.3	3.3	3.3	00.0	100.
16	3.3	00.0	6.7	00.0	00.0	6.7	13.3	10.0	26.7	16.7	6.7	00.0	00.0	3.3	3.3	3.3	00.0	100.
17	3.3	3.3	00.0	3.3	00.0	3.3	13.3	13.3	20.0	13.3	3.3	10.0	00.0	3.3	3.3	6.7	00.0	100.
18	3.3	00.0	3.3	00.0	3.3	3.3	13.3	13.3	26.7	3.3	3.3	3.3	6.7	3.3	3.3	10.0	00.0	100.
19	6.7	3.3	3.3	00.0	3.3	00.0	23.3	10.0	26.7	3.3	3.3	00.0	3.3	00.0	6.7	6.7	00.0	100.
20	6.7	6.7	00.0	3.3	3.3	3.3	20.0	10.0	26.7	3.3	6.7	00.0	00.0	00.0	6.7	3.3	00.0	100.
21	10.0	3.3	00.0	00.0	6.7	00.0	20.0	16.7	20.0	3.3	6.7	3.3	00.0	00.0	00.0	10.0	00.0	100.
22	10.0	3.3	6.7	00.0	6.7	3.3	20.0	16.7	20.0	00.0	3.3	6.7	00.0	00.0	00.0	3.3	00.0	100.
23	6.7	00.0	6.7	6.7	6.7	3.3	6.7	26.7	20.0	3.3	3.3	3.3	3.3	00.0	00.0	3.3	00.0	100.
24	00.0	3.3	00.0	6.7	10.0	3.3	13.3	13.3	26.7	6.7	00.0	6.7	3.3	00.0	00.0	6.7	00.0	100.
ALL	3.5	3.1	3.5	2.8	4.0	3.5	12.4	12.8	24.6	9.9	3.3	3.5	1.4	2.4	2.8	6.8	00.0	100.

NUMBER OF OBS = 720

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

APR-JUN

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	5.5	00.0	6.6	6.6	4.4	9.9	13.2	14.3	13.2	4.4	3.3	1.1	00.0	5.5	6.6	5.5	00.0	100.
2	4.4	2.2	3.3	8.8	7.7	6.6	7.7	13.2	17.6	5.5	3.3	1.1	1.1	6.6	3.3	7.7	00.0	100.
3	3.3	4.4	6.6	4.4	6.6	6.6	7.7	9.9	17.6	7.7	3.3	3.3	00.0	6.6	3.3	8.8	00.0	100.
4	2.2	5.5	6.6	5.5	4.4	6.6	5.5	12.1	14.3	7.7	5.5	4.4	3.3	4.4	3.3	8.8	00.0	100.
5	6.6	4.4	9.9	2.2	6.6	4.4	5.5	12.1	11.0	6.6	4.4	4.4	3.3	6.6	3.3	8.8	00.0	100.
6	5.5	4.4	4.4	7.7	5.5	6.6	2.2	16.5	13.2	00.0	4.4	4.4	2.2	7.7	4.4	11.0	00.0	100.
7	8.9	2.2	3.3	5.6	10.0	6.7	5.6	8.9	12.2	3.3	3.3	6.7	2.2	4.4	5.6	11.1	00.0	100.
8	11.1	3.3	1.1	8.9	5.6	6.7	8.9	6.7	11.1	3.3	4.4	5.6	2.2	5.6	5.6	10.0	00.0	100.
9	14.4	4.4	4.4	2.2	6.7	8.9	5.6	8.9	10.0	6.7	1.1	3.3	2.2	6.7	6.7	7.8	00.0	100.
10	12.1	4.4	3.3	2.2	9.9	4.4	11.0	4.4	13.2	4.4	3.3	1.1	2.2	5.5	9.9	8.8	00.0	100.
11	9.9	9.9	3.3	2.2	12.1	5.5	11.0	6.6	8.8	6.6	00.0	3.3	2.2	4.4	7.7	6.6	00.0	100.
12	11.0	6.6	5.5	2.2	8.8	8.8	9.9	8.8	8.8	5.5	00.0	2.2	2.2	2.2	8.8	8.8	00.0	100.
13	8.8	4.4	6.6	5.5	7.7	6.6	13.2	6.6	8.8	6.6	00.0	1.1	3.3	2.2	7.7	11.0	00.0	100.
14	9.9	2.2	6.6	6.6	5.5	3.3	17.6	5.5	9.9	6.6	00.0	1.1	3.3	3.3	9.9	8.8	00.0	100.
15	13.2	5.5	6.6	3.3	4.4	4.4	15.4	7.7	12.1	3.3	1.1	3.3	4.4	5.5	5.5	4.4	00.0	100.
16	9.9	2.2	8.8	5.5	1.1	6.6	11.0	9.9	13.2	5.5	2.2	1.1	5.5	2.2	6.6	8.8	00.0	100.
17	7.7	7.7	4.4	5.5	2.2	5.5	13.2	11.0	9.9	4.4	1.1	3.3	4.4	4.4	4.4	11.0	00.0	100.
18	7.7	5.5	8.8	4.4	1.1	6.6	13.2	11.0	12.1	1.1	1.1	1.1	7.7	4.4	4.4	9.9	00.0	100.
19	7.7	6.6	6.6	5.5	5.5	3.3	17.6	9.9	9.9	2.2	1.1	3.3	3.3	3.3	6.6	7.7	00.0	100.
20	5.5	6.6	5.5	4.4	11.0	5.5	14.3	8.8	9.9	4.4	3.3	1.1	1.1	5.5	8.8	4.4	00.0	100.
21	7.7	4.4	5.5	3.3	12.1	5.5	16.5	9.9	7.7	4.4	3.3	3.3	1.1	5.5	4.4	5.5	00.0	100.
22	7.7	3.3	7.7	3.3	8.8	7.7	16.5	12.1	7.7	3.3	1.1	5.5	2.2	2.2	7.7	3.3	00.0	100.
23	6.6	4.4	4.4	4.4	7.7	9.9	11.0	16.5	7.7	5.5	1.1	4.4	1.1	5.5	3.3	6.6	00.0	100.
24	4.4	3.3	2.2	7.7	6.6	8.8	13.2	12.1	11.0	6.6	1.1	2.2	3.3	4.4	6.6	6.6	00.0	100.
ALL	8.0	4.5	5.5	4.9	6.7	6.5	11.1	10.1	11.3	4.8	2.2	3.0	2.7	4.8	6.0	8.0	00.0	100.

NUMBER OF OBS = 2181

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JAN-JUN

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	7.8	2.8	4.4	3.9	3.9	6.7	8.3	12.2	10.6	4.4	3.3	3.9	2.8	6.1	8.9	10.0	00.0	100.
2	5.0	3.4	3.9	4.5	6.1	5.0	4.5	11.7	12.8	6.1	3.9	3.4	1.1	7.3	9.5	11.7	00.0	100.
3	3.9	6.1	5.6	3.3	4.4	5.0	4.4	8.3	13.3	6.7	4.4	3.9	.6	9.4	9.4	11.1	00.0	100.
4	5.0	4.4	5.6	3.9	2.8	6.1	3.3	10.6	11.7	7.2	5.0	3.9	2.2	6.7	11.7	10.0	00.0	100.
5	6.1	6.7	6.1	2.2	4.4	3.9	5.6	10.0	8.3	6.7	4.4	4.4	2.2	9.4	7.2	12.2	00.0	100.
6	5.6	6.1	2.8	5.6	4.4	4.4	3.9	12.2	10.0	2.8	3.3	6.1	1.7	7.8	11.7	11.7	00.0	100.
7	7.3	5.6	2.8	3.9	6.1	5.0	4.5	9.5	9.5	3.9	4.5	5.0	3.4	6.7	11.2	11.2	00.0	100.
8	8.5	4.5	1.7	5.6	3.4	5.6	6.8	8.5	7.9	5.6	4.0	4.5	2.3	9.0	9.6	12.4	00.0	100.
9	11.3	4.5	2.8	2.8	4.5	5.1	5.1	9.6	6.8	7.9	2.3	4.0	3.4	6.2	11.3	12.4	00.0	100.
10	11.2	5.6	1.7	1.7	7.3	2.8	7.3	5.6	9.0	9.0	2.2	2.8	2.8	5.6	14.6	10.7	00.0	100.
11	8.8	9.9	2.2	1.7	7.2	3.9	7.7	6.6	8.8	7.2	2.2	2.8	3.9	5.5	12.2	9.4	00.0	100.
12	12.2	6.6	3.9	1.7	5.5	6.6	7.2	6.6	9.4	7.2	2.8	1.7	2.8	3.9	13.3	8.8	00.0	100.
13	9.4	5.0	3.3	4.4	5.5	5.5	8.3	7.7	8.8	6.6	3.3	1.7	4.4	3.3	11.0	11.6	00.0	100.
14	8.3	3.9	3.3	3.9	3.9	3.9	11.0	7.7	9.9	7.2	1.7	3.3	3.3	4.4	13.8	10.5	00.0	100.
15	11.1	6.1	3.9	2.8	2.8	3.9	9.4	8.3	11.1	7.8	2.8	3.3	3.3	5.0	12.8	5.6	00.0	100.
16	10.0	2.8	6.7	3.3	1.1	5.0	6.1	10.6	12.2	6.7	5.0	2.2	5.0	2.8	11.1	9.4	00.0	100.
17	7.7	5.5	3.9	3.3	2.2	4.4	7.7	9.4	11.0	7.2	5.0	3.9	3.3	3.3	9.4	12.7	00.0	100.
18	7.2	5.0	6.1	3.3	2.2	3.9	8.3	10.6	11.7	5.0	5.0	2.2	4.4	3.3	7.2	14.4	00.0	100.
19	6.1	5.5	3.9	3.9	5.5	2.8	11.0	11.0	9.9	3.9	7.2	2.8	1.7	3.3	7.7	13.8	00.0	100.
20	4.4	6.1	3.3	3.3	8.3	3.9	11.0	9.9	10.5	3.9	5.0	3.9	1.1	3.9	9.4	12.2	00.0	100.
21	6.6	5.5	3.9	3.3	7.7	3.3	11.0	11.0	9.9	5.0	3.3	4.4	1.1	5.5	5.5	12.7	00.0	100.
22	8.3	3.9	6.1	2.8	4.4	6.7	11.1	10.0	10.0	6.1	2.2	5.6	2.8	5.0	6.1	8.9	00.0	100.
23	6.7	3.9	3.3	3.9	4.4	7.8	7.8	12.8	7.8	6.7	2.2	6.1	2.2	6.1	5.0	13.3	00.0	100.
24	7.2	3.9	2.2	5.0	4.4	8.8	7.7	9.9	8.8	7.2	2.8	3.3	4.4	7.2	6.6	10.5	00.0	100.
ALL	7.7	5.1	3.9	3.5	4.7	5.0	7.5	9.6	10.0	6.2	3.7	3.7	2.8	5.7	9.8	11.1	00.0	100.

NUMBER OF OBS = 4319

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JULY

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	12.9	3.2	3.2	00.0	00.0	12.9	3.2	29.0	16.1	3.2	3.2	00.0	6.5	00.0	3.2	3.2	00.0	100.
2	9.7	6.5	00.0	3.2	3.2	12.9	3.2	16.1	19.4	6.5	3.2	00.0	00.0	00.0	6.5	9.7	00.0	100.
3	9.7	6.5	3.2	00.0	6.5	9.7	3.2	9.7	25.8	6.5	6.5	00.0	3.2	3.2	00.0	6.5	00.0	100.
4	6.7	10.0	3.3	6.7	3.3	10.0	3.3	13.3	20.0	13.3	00.0	00.0	00.0	00.0	3.3	6.7	00.0	100.
5	6.5	00.0	12.9	3.2	12.9	9.7	00.0	9.7	19.4	12.9	00.0	00.0	3.2	00.0	6.5	3.2	00.0	100.
6	3.2	3.2	6.5	6.5	6.5	12.9	6.5	19.4	12.9	00.0	6.5	3.2	00.0	00.0	6.5	6.5	00.0	100.
7	3.2	00.0	00.0	12.9	3.2	12.9	19.4	12.9	16.1	3.2	3.2	3.2	00.0	00.0	3.2	6.5	00.0	100.
8	6.5	00.0	6.5	3.2	00.0	3.2	12.9	19.4	25.8	9.7	00.0	3.2	00.0	3.2	00.0	6.5	00.0	100.
9	6.5	00.0	3.2	00.0	9.7	3.2	6.5	19.4	22.6	9.7	3.2	00.0	00.0	3.2	6.5	6.5	00.0	100.
10	6.5	3.2	3.2	6.5	3.2	6.5	6.5	16.1	22.6	12.9	00.0	00.0	00.0	00.0	6.5	6.5	00.0	100.
11	6.5	9.7	3.2	00.0	9.7	6.5	3.2	19.4	22.6	9.7	3.2	00.0	00.0	00.0	3.2	3.2	00.0	100.
12	9.7	3.2	6.5	00.0	00.0	9.7	9.7	25.8	16.1	3.2	3.2	3.2	00.0	3.2	3.2	3.2	00.0	100.
13	9.7	6.5	00.0	6.5	6.5	6.5	6.5	19.4	16.1	9.7	3.2	00.0	00.0	3.2	3.2	3.2	00.0	100.
14	12.9	3.2	6.5	3.2	6.5	6.5	6.5	22.6	16.1	6.5	6.5	00.0	00.0	3.2	00.0	00.0	00.0	100.
15	16.1	00.0	3.2	6.5	3.2	00.0	16.1	22.6	16.1	00.0	9.7	00.0	00.0	6.5	00.0	00.0	00.0	100.
16	9.7	00.0	00.0	3.2	9.7	00.0	9.7	25.8	16.1	00.0	3.2	6.5	00.0	3.2	6.5	6.5	00.0	100.
17	9.7	6.5	3.2	3.2	6.5	6.5	9.7	32.3	3.2	6.5	00.0	3.2	00.0	00.0	00.0	9.7	00.0	100.
18	6.5	3.2	9.7	00.0	9.7	3.2	19.4	25.8	6.5	3.2	00.0	3.2	00.0	00.0	00.0	9.7	00.0	100.
19	3.2	00.0	3.2	12.9	9.7	6.5	22.6	22.6	6.5	00.0	00.0	3.2	00.0	00.0	00.0	9.7	00.0	100.
20	9.7	00.0	6.5	3.2	16.1	9.7	19.4	29.0	00.0	00.0	00.0	00.0	00.0	00.0	3.2	3.2	00.0	100.
21	6.5	6.5	3.2	9.7	3.2	22.6	16.1	22.6	3.2	00.0	00.0	00.0	3.2	00.0	00.0	3.2	00.0	100.
22	6.5	3.2	3.2	6.5	6.5	19.4	16.1	22.6	9.7	00.0	00.0	00.0	00.0	3.2	00.0	3.2	00.0	100.
23	9.7	3.2	3.2	3.2	6.5	16.1	12.9	16.1	25.8	00.0	00.0	00.0	00.0	00.0	3.2	00.0	00.0	100.
24	9.7	3.2	3.2	3.2	3.2	9.7	6.5	29.0	22.6	00.0	00.0	3.2	3.2	00.0	3.2	00.0	00.0	100.
ALL	8.2	3.4	4.0	4.3	6.1	9.0	10.0	20.9	15.9	4.8	2.3	1.3	.8	1.3	2.8	4.8	00.0	100.

NUMBER OF OBS = 743

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

AUGUST

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	6.5	6.5	3.2	12.9	6.5	9.7	19.4	19.4	9.7	00.0	00.0	00.0	6.5	00.0	00.0	00.0	00.0	100.
2	9.7	6.5	3.2	12.9	3.2	9.7	19.4	16.1	16.1	00.0	00.0	00.0	00.0	3.2	00.0	00.0	00.0	100.
3	6.5	12.9	6.5	3.2	6.5	6.5	12.9	29.0	9.7	00.0	00.0	3.2	00.0	00.0	3.2	00.0	00.0	100.
4	3.2	12.9	6.5	3.2	6.5	3.2	29.0	19.4	9.7	00.0	00.0	00.0	00.0	6.5	00.0	00.0	00.0	100.
5	3.2	6.5	3.2	9.7	6.5	3.2	12.9	29.0	12.9	00.0	00.0	00.0	00.0	6.5	00.0	3.2	3.2	100.
6	3.2	6.5	6.5	3.2	6.5	9.7	16.1	19.4	16.1	3.2	00.0	00.0	00.0	6.5	00.0	3.2	00.0	100.
7	6.5	3.2	3.2	6.5	6.5	12.9	6.5	19.4	16.1	00.0	3.2	3.2	00.0	3.2	3.2	6.5	00.0	100.
8	6.5	3.2	6.5	6.5	6.5	12.9	19.4	16.1	9.7	3.2	00.0	3.2	00.0	3.2	3.2	00.0	00.0	100.
9	6.5	6.5	00.0	6.5	6.5	6.5	35.5	9.7	9.7	3.2	00.0	00.0	3.2	00.0	6.5	00.0	00.0	100.
10	6.5	6.5	00.0	3.2	9.7	22.6	12.9	16.1	12.9	3.2	00.0	00.0	3.2	3.2	00.0	00.0	00.0	100.
11	3.2	3.2	6.5	6.5	3.2	16.1	19.4	16.1	16.1	00.0	00.0	3.2	00.0	3.2	00.0	3.2	00.0	100.
12	3.2	6.5	3.2	6.5	3.2	9.7	25.8	12.9	19.4	00.0	00.0	00.0	3.2	6.5	00.0	00.0	00.0	100.
13	3.2	3.2	6.5	3.2	9.7	3.2	19.4	29.0	6.5	3.2	3.2	00.0	3.2	00.0	3.2	3.2	00.0	100.
14	3.2	3.2	00.0	9.7	3.2	3.2	22.6	19.4	12.9	3.2	3.2	00.0	3.2	6.5	00.0	6.5	00.0	100.
15	9.7	00.0	00.0	3.2	6.5	9.7	22.6	19.4	12.9	00.0	00.0	00.0	3.2	3.2	3.2	6.5	00.0	100.
16	10.0	00.0	3.3	3.3	16.7	00.0	20.0	23.3	6.7	00.0	00.0	3.3	00.0	3.3	00.0	10.0	00.0	100.
17	16.1	00.0	00.0	00.0	16.1	6.5	19.4	22.6	6.5	00.0	00.0	3.2	00.0	3.2	00.0	6.5	00.0	100.
18	12.9	3.2	00.0	00.0	12.9	12.9	25.8	19.4	00.0	00.0	00.0	3.2	00.0	3.2	00.0	6.5	00.0	100.
19	6.5	6.5	6.5	6.5	9.7	12.9	29.0	9.7	3.2	00.0	00.0	00.0	00.0	00.0	3.2	3.2	3.2	100.
20	00.0	6.5	6.5	12.9	3.2	19.4	32.3	9.7	00.0	3.2	00.0	00.0	00.0	00.0	00.0	6.5	00.0	100.
21	6.5	6.5	9.7	6.5	3.2	16.1	19.4	22.6	3.2	3.2	00.0	00.0	00.0	00.0	00.0	3.2	00.0	100.
22	00.0	3.2	00.0	16.1	6.5	19.4	25.8	16.1	3.2	3.2	00.0	00.0	3.2	00.0	00.0	3.2	00.0	100.
23	6.5	00.0	00.0	12.9	9.7	22.6	16.1	12.9	6.5	6.5	3.2	00.0	00.0	00.0	00.0	3.2	00.0	100.
24	3.2	3.2	00.0	6.5	9.7	16.1	29.0	12.9	3.2	3.2	00.0	3.2	3.2	3.2	00.0	3.2	00.0	100.
ALL	5.9	4.8	3.4	6.7	7.4	11.0	21.3	18.3	9.3	1.6	.5	1.1	1.3	2.7	1.1	3.2	.3	100.

NUMBER OF OBS = 743

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

SEPTEMBER

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	6.7	6.7	00.0	00.0	00.0	6.7	13.3	23.3	13.3	6.7	10.0	3.3	00.0	00.0	6.7	3.3	00.0	100.
2	3.3	6.7	00.0	3.3	00.0	10.0	00.0	16.7	26.7	6.7	6.7	6.7	00.0	00.0	00.0	13.3	00.0	100.
3	3.3	3.3	00.0	6.7	3.3	6.7	6.7	13.3	20.0	6.7	10.0	6.7	00.0	00.0	3.3	10.0	00.0	100.
4	6.7	6.7	00.0	3.3	00.0	10.0	10.0	13.3	13.3	6.7	6.7	6.7	3.3	00.0	3.3	10.0	00.0	100.
5	3.3	10.0	00.0	3.3	00.0	6.7	6.7	23.3	10.0	10.0	00.0	6.7	3.3	6.7	6.7	3.3	00.0	100.
6	6.7	00.0	3.3	00.0	6.7	6.7	13.3	20.0	10.0	6.7	3.3	3.3	6.7	6.7	3.3	3.3	00.0	100.
7	3.3	3.3	00.0	6.7	00.0	6.7	20.0	20.0	3.3	10.0	10.0	00.0	00.0	3.3	13.3	00.0	00.0	100.
8	3.3	00.0	3.3	3.3	3.3	3.3	16.7	20.0	10.0	13.3	3.3	3.3	00.0	6.7	3.3	6.7	00.0	100.
9	6.7	00.0	3.3	3.3	00.0	6.7	16.7	13.3	13.3	6.7	3.3	6.7	6.7	3.3	6.7	3.3	00.0	100.
10	6.7	3.3	3.3	3.3	6.7	00.0	16.7	16.7	10.0	13.3	6.7	00.0	3.3	6.7	3.3	00.0	00.0	100.
11	10.0	3.3	00.0	6.7	6.7	6.7	13.3	3.3	23.3	6.7	00.0	3.3	6.7	00.0	3.3	6.7	00.0	100.
12	13.3	00.0	3.3	00.0	13.3	00.0	13.3	13.3	23.3	3.3	00.0	6.7	3.3	00.0	3.3	3.3	00.0	100.
13	13.3	6.7	00.0	3.3	3.3	6.7	16.7	6.7	30.0	00.0	00.0	3.3	00.0	3.3	3.3	3.3	00.0	100.
14	10.0	3.3	00.0	00.0	3.3	3.3	16.7	16.7	23.3	00.0	3.3	00.0	6.7	6.7	3.3	3.3	00.0	100.
15	13.3	3.3	00.0	00.0	3.3	3.3	13.3	16.7	23.3	3.3	3.3	00.0	3.3	3.3	6.7	3.3	00.0	100.
16	6.7	3.3	00.0	00.0	3.3	3.3	10.0	23.3	23.3	3.3	00.0	00.0	3.3	6.7	3.3	10.0	00.0	100.
17	10.0	00.0	00.0	3.3	6.7	00.0	6.7	26.7	20.0	3.3	00.0	3.3	00.0	3.3	10.0	6.7	00.0	100.
18	6.7	00.0	00.0	3.3	6.7	00.0	16.7	16.7	20.0	00.0	3.3	3.3	00.0	3.3	3.3	16.7	00.0	100.
19	6.7	3.3	00.0	6.7	3.3	00.0	20.0	16.7	16.7	00.0	6.7	00.0	00.0	00.0	10.0	10.0	00.0	100.
20	10.0	00.0	6.7	3.3	3.3	6.7	20.0	13.3	16.7	3.3	6.7	00.0	00.0	3.3	00.0	6.7	00.0	100.
21	10.0	3.3	00.0	00.0	10.0	6.7	13.3	20.0	20.0	3.3	6.7	00.0	00.0	3.3	00.0	3.3	00.0	100.
22	10.0	00.0	3.3	3.3	3.3	3.3	6.7	30.0	20.0	6.7	3.3	3.3	3.3	00.0	00.0	3.3	00.0	100.
23	10.0	3.3	00.0	00.0	6.7	3.3	6.7	23.3	26.7	3.3	3.3	6.7	00.0	3.3	00.0	3.3	00.0	100.
24	6.7	3.3	00.0	00.0	3.3	00.0	10.0	26.7	16.7	13.3	3.3	3.3	3.3	00.0	00.0	10.0	00.0	100.
ALL	7.8	3.1	1.1	2.6	4.0	4.4	12.6	18.1	18.1	5.7	4.2	3.2	2.2	2.9	4.0	6.0	00.0	100.

NUMBER OF OBS = 720

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JUL-SEP

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	8.7	5.4	2.2	4.3	2.2	9.8	12.0	23.9	13.0	3.3	4.3	1.1	4.3	00.0	3.3	2.2	00.0	100.
2	7.6	6.5	1.1	6.5	2.2	10.9	7.6	16.3	20.7	4.3	3.3	2.2	00.0	1.1	2.2	7.6	00.0	100.
3	6.5	7.6	3.3	3.3	5.4	7.6	7.6	17.4	18.5	4.3	5.4	3.3	1.1	1.1	2.2	5.4	00.0	100.
4	5.5	9.9	3.3	4.4	3.3	7.7	14.3	15.4	14.3	6.6	2.2	2.2	1.1	2.2	2.2	5.5	00.0	100.
5	4.3	5.4	5.4	5.4	6.5	6.5	6.5	20.7	14.1	7.6	00.0	2.2	2.2	4.3	4.3	3.3	1.1	100.
6	4.3	3.3	5.4	3.3	6.5	9.8	12.0	19.6	13.0	3.3	3.3	2.2	2.2	4.3	3.3	4.3	00.0	100.
7	4.3	2.2	1.1	8.7	3.3	10.9	15.2	17.4	12.0	4.3	5.4	2.2	00.0	2.2	6.5	4.3	00.0	100.
8	5.4	1.1	5.4	4.3	3.3	6.5	16.3	18.5	15.2	8.7	1.1	3.3	00.0	4.3	2.2	4.3	00.0	100.
9	6.5	2.2	2.2	3.3	5.4	5.4	19.6	14.1	15.2	6.5	2.2	2.2	3.3	2.2	6.5	3.3	00.0	100.
10	6.5	4.3	2.2	4.3	6.5	9.8	12.0	16.3	15.2	9.8	2.2	00.0	2.2	3.3	3.3	2.2	00.0	100.
11	6.5	5.4	3.3	4.3	6.5	9.8	12.0	13.0	20.7	5.4	1.1	2.2	2.2	1.1	2.2	4.3	00.0	100.
12	8.7	3.3	4.3	2.2	5.4	6.5	16.3	17.4	19.6	2.2	1.1	3.3	2.2	3.3	2.2	2.2	00.0	100.
13	8.7	5.4	2.2	4.3	6.5	5.4	14.1	18.5	17.4	4.3	2.2	1.1	1.1	2.2	3.3	3.3	00.0	100.
14	8.7	3.3	2.2	4.3	4.3	4.3	15.2	19.6	17.4	3.3	4.3	00.0	3.3	5.4	1.1	3.3	00.0	100.
15	13.0	1.1	1.1	3.3	4.3	4.3	17.4	19.6	17.4	1.1	4.3	00.0	2.2	4.3	3.3	3.3	00.0	100.
16	8.8	1.1	1.1	2.2	9.9	1.1	13.2	24.2	15.4	1.1	1.1	3.3	1.1	4.4	3.3	8.8	00.0	100.
17	12.0	2.2	1.1	2.2	9.8	4.3	12.0	27.2	9.8	3.3	00.0	3.3	00.0	2.2	3.3	7.6	00.0	100.
18	8.7	2.2	3.3	1.1	9.8	5.4	20.7	20.7	8.7	1.1	1.1	3.3	00.0	2.2	1.1	10.9	00.0	100.
19	5.4	3.3	3.3	8.7	7.6	6.5	23.9	16.3	8.7	00.0	2.2	1.1	00.0	00.0	4.3	7.6	1.1	100.
20	6.5	2.2	6.5	6.5	7.6	12.0	23.9	17.4	5.4	2.2	2.2	00.0	00.0	1.1	1.1	5.4	00.0	100.
21	7.6	5.4	4.3	5.4	5.4	15.2	16.3	21.7	8.7	2.2	2.2	00.0	1.1	1.1	00.0	3.3	00.0	100.
22	5.4	2.2	2.2	8.7	5.4	14.1	16.3	22.8	10.9	3.3	1.1	1.1	2.2	1.1	00.0	3.3	00.0	100.
23	8.7	2.2	1.1	5.4	7.6	14.1	12.0	17.4	19.6	3.3	2.2	2.2	00.0	1.1	1.1	2.2	00.0	100.
24	6.5	3.3	1.1	3.3	5.4	8.7	15.2	22.8	14.1	5.4	1.1	3.3	3.3	1.1	1.1	4.3	00.0	100.
ALL	7.3	3.8	2.9	4.6	5.8	8.2	14.6	19.1	14.4	4.0	2.3	1.9	1.5	2.3	2.6	4.7	.1	100.

NUMBER OF OBS = 2206

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

OCTOBER

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	9.7	00.0	00.0	9.7	9.7	3.2	9.7	19.4	12.9	00.0	3.2	00.0	6.5	00.0	6.5	9.7	00.0	100.
2	12.9	00.0	00.0	6.5	6.5	6.5	16.1	16.1	16.1	00.0	00.0	00.0	00.0	9.7	6.5	3.2	00.0	100.
3	9.7	00.0	00.0	6.5	9.7	3.2	16.1	22.6	3.2	6.5	00.0	00.0	00.0	12.9	00.0	9.7	00.0	100.
4	12.9	3.2	00.0	3.2	9.7	3.2	19.4	19.4	3.2	00.0	3.2	3.2	00.0	9.7	3.2	6.5	00.0	100.
5	9.7	3.2	00.0	6.5	3.2	12.9	9.7	25.8	00.0	00.0	3.2	3.2	3.2	3.2	6.5	9.7	00.0	100.
6	6.5	3.2	3.2	3.2	3.2	16.1	9.7	22.6	3.2	00.0	00.0	00.0	12.9	6.5	00.0	6.5	3.2	100.
7	12.9	00.0	3.2	6.5	3.2	12.9	9.7	19.4	9.7	00.0	00.0	3.2	12.9	3.2	00.0	3.2	00.0	100.
8	12.9	00.0	3.2	00.0	6.5	12.9	6.5	19.4	12.9	00.0	00.0	00.0	3.2	12.9	3.2	6.5	00.0	100.
9	12.9	00.0	00.0	3.2	3.2	16.1	6.5	16.1	9.7	3.2	3.2	3.2	6.5	9.7	3.2	3.2	00.0	100.
10	9.7	3.2	00.0	00.0	6.5	9.7	9.7	9.7	16.1	9.7	3.2	3.2	3.2	9.7	3.2	3.2	00.0	100.
11	6.5	3.2	3.2	00.0	3.2	9.7	12.9	9.7	19.4	6.5	3.2	3.2	3.2	6.5	3.2	6.5	00.0	100.
12	6.5	6.5	00.0	00.0	00.0	16.1	16.1	12.9	9.7	00.0	3.2	9.7	3.2	9.7	00.0	6.5	00.0	100.
13	6.7	6.7	00.0	00.0	3.3	16.7	10.0	16.7	10.0	00.0	3.3	6.7	00.0	10.0	3.3	6.7	00.0	100.
14	9.7	3.2	00.0	00.0	3.2	12.9	12.9	19.4	6.5	00.0	3.2	00.0	9.7	00.0	9.7	9.7	00.0	100.
15	9.7	3.2	00.0	00.0	9.7	6.5	19.4	16.1	3.2	00.0	3.2	3.2	3.2	3.2	16.1	3.2	00.0	100.
16	9.7	00.0	3.2	00.0	3.2	9.7	16.1	19.4	6.5	00.0	6.5	3.2	00.0	3.2	6.5	12.9	00.0	100.
17	9.7	00.0	3.2	00.0	6.5	12.9	6.5	19.4	9.7	00.0	6.5	3.2	00.0	3.2	6.5	12.9	00.0	100.
18	6.5	00.0	3.2	00.0	6.5	12.9	6.5	12.9	16.1	3.2	00.0	00.0	00.0	6.5	9.7	16.1	00.0	100.
19	9.7	00.0	3.2	00.0	3.2	16.1	9.7	25.8	3.2	00.0	00.0	00.0	00.0	12.9	3.2	12.9	00.0	100.
20	3.2	6.5	3.2	00.0	00.0	19.4	16.1	12.9	9.7	00.0	00.0	00.0	3.2	3.2	9.7	12.9	00.0	100.
21	9.7	3.2	3.2	00.0	3.2	16.1	9.7	16.1	9.7	00.0	00.0	00.0	3.2	3.2	9.7	12.9	00.0	100.
22	12.9	3.2	3.2	00.0	00.0	16.1	9.7	19.4	6.5	00.0	00.0	00.0	00.0	6.5	9.7	12.9	00.0	100.
23	12.9	6.5	00.0	3.2	00.0	12.9	9.7	19.4	9.7	00.0	00.0	00.0	3.2	6.5	9.7	6.5	00.0	100.
24	6.5	00.0	3.2	6.5	3.2	6.5	12.9	16.1	12.9	00.0	00.0	3.2	00.0	9.7	6.5	12.9	00.0	100.
ALL	9.6	2.3	1.6	2.3	4.4	11.7	11.7	17.8	9.2	1.2	1.9	2.0	3.2	6.7	5.7	8.6	.1	100.

NUMBER OF OBS = 743

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

NOVEMBER

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	6.7	3.3	3.3	3.3	3.3	13.3	3.3	3.3	10.0	3.3	6.7	6.7	00.0	6.7	13.3	13.3	00.0	100.
2	3.3	6.7	3.3	3.3	00.0	16.7	3.3	00.0	13.3	00.0	6.7	6.7	00.0	6.7	16.7	13.3	00.0	100.
3	3.3	00.0	6.7	3.3	3.3	16.7	3.3	3.3	10.0	00.0	3.3	00.0	3.3	3.3	26.7	13.3	00.0	100.
4	6.7	3.3	6.7	00.0	00.0	13.3	10.0	3.3	10.0	00.0	00.0	3.3	3.3	3.3	16.7	20.0	00.0	100.
5	6.7	00.0	6.7	3.3	6.7	6.7	10.0	3.3	6.7	3.3	00.0	00.0	10.0	3.3	16.7	13.3	3.3	100.
6	6.7	3.3	6.7	00.0	6.7	10.0	10.0	3.3	6.7	3.3	3.3	00.0	6.7	6.7	6.7	16.7	3.3	100.
7	3.3	3.3	6.7	3.3	6.7	3.3	10.0	10.0	6.7	00.0	3.3	6.7	00.0	10.0	3.3	23.3	00.0	100.
8	3.3	00.0	6.7	3.3	3.3	10.0	6.7	6.7	6.7	6.7	3.3	3.3	00.0	6.7	10.0	20.0	3.3	100.
9	3.3	00.0	3.3	00.0	6.7	13.3	6.7	6.7	6.7	3.3	3.3	6.7	00.0	6.7	10.0	20.0	3.3	100.
10	10.0	3.3	00.0	00.0	3.3	10.0	10.0	00.0	10.0	3.3	3.3	6.7	3.3	13.3	6.7	16.7	00.0	100.
11	6.7	3.3	3.3	00.0	3.3	3.3	6.7	6.7	6.7	6.7	3.3	10.0	00.0	10.0	13.3	16.7	00.0	100.
12	3.3	6.7	00.0	00.0	3.3	10.0	3.3	6.7	10.0	3.3	10.0	00.0	6.7	6.7	13.3	16.7	00.0	100.
13	6.7	6.7	3.3	00.0	00.0	6.7	6.7	6.7	10.0	00.0	6.7	00.0	10.0	10.0	13.3	13.3	00.0	100.
14	3.3	13.3	00.0	00.0	00.0	6.7	10.0	00.0	16.7	00.0	6.7	00.0	3.3	16.7	10.0	13.3	00.0	100.
15	6.7	6.7	3.3	00.0	00.0	10.0	00.0	6.7	16.7	00.0	3.3	6.7	00.0	16.7	6.7	16.7	00.0	100.
16	6.7	6.7	3.3	00.0	00.0	13.3	00.0	3.3	10.0	13.3	00.0	3.3	00.0	6.7	13.3	20.0	00.0	100.
17	16.7	00.0	3.3	3.3	3.3	10.0	00.0	3.3	13.3	6.7	00.0	3.3	3.3	10.0	6.7	16.7	00.0	100.
18	13.3	3.3	3.3	00.0	3.3	10.0	3.3	6.7	10.0	6.7	3.3	6.7	00.0	00.0	16.7	13.3	00.0	100.
19	13.3	6.7	6.7	00.0	3.3	13.3	00.0	10.0	13.3	00.0	6.7	3.3	00.0	00.0	10.0	13.3	00.0	100.
20	10.0	6.7	6.7	00.0	00.0	16.7	6.7	3.3	10.0	6.7	6.7	00.0	3.3	00.0	6.7	16.7	00.0	100.
21	20.0	3.3	00.0	6.7	3.3	10.0	3.3	6.7	13.3	3.3	6.7	00.0	3.3	00.0	6.7	13.3	00.0	100.
22	16.7	6.7	00.0	3.3	6.7	6.7	3.3	10.0	10.0	6.7	3.3	3.3	00.0	3.3	6.7	13.3	00.0	100.
23	10.0	6.7	6.7	00.0	3.3	10.0	6.7	10.0	10.0	3.3	6.7	3.3	00.0	00.0	13.3	10.0	00.0	100.
24	13.8	6.9	3.4	00.0	6.9	6.9	6.9	6.9	10.3	00.0	10.3	3.4	3.4	00.0	13.8	6.9	00.0	100.
ALL	8.3	4.5	3.9	1.4	3.2	10.3	5.4	5.3	10.3	3.3	4.5	3.5	2.5	6.1	11.5	15.4	.6	100.

NUMBER OF OBS = 719

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

DECEMBER

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	6.5	3.2	00.0	3.2	6.5	00.0	3.2	9.7	9.7	9.7	9.7	9.7	3.2	3.2	6.5	16.1	00.0	100.
2	16.1	00.0	00.0	00.0	3.2	6.5	6.5	00.0	6.5	16.1	6.5	9.7	6.5	00.0	16.1	6.5	00.0	100.
3	9.7	00.0	6.5	3.2	00.0	6.5	3.2	6.5	3.2	12.9	12.9	6.5	00.0	6.5	16.1	6.5	00.0	100.
4	12.9	3.2	00.0	3.2	3.2	6.5	3.2	6.5	3.2	12.9	9.7	6.5	6.5	9.7	9.7	3.2	00.0	100.
5	12.9	3.2	00.0	6.5	00.0	6.5	3.2	3.2	6.5	6.5	6.5	12.9	6.5	3.2	12.9	9.7	00.0	100.
6	12.9	3.2	00.0	3.2	3.2	6.5	3.2	6.5	6.5	9.7	3.2	6.5	6.5	3.2	19.4	6.5	00.0	100.
7	6.5	6.5	00.0	00.0	6.5	6.5	6.5	3.2	3.2	9.7	12.9	00.0	00.0	6.5	9.7	22.6	00.0	100.
8	12.9	3.2	3.2	00.0	6.5	3.2	12.9	00.0	6.5	9.7	9.7	6.5	3.2	3.2	6.5	12.9	00.0	100.
9	16.1	3.2	00.0	3.2	3.2	9.7	3.2	6.5	9.7	9.7	9.7	6.5	00.0	3.2	6.5	9.7	00.0	100.
10	12.9	3.2	00.0	00.0	3.2	3.2	12.9	3.2	19.4	9.7	6.5	6.5	3.2	00.0	3.2	12.9	00.0	100.
11	12.9	3.2	00.0	3.2	00.0	3.2	16.1	3.2	12.9	12.9	6.5	3.2	6.5	00.0	3.2	12.9	00.0	100.
12	9.7	6.5	00.0	00.0	3.2	3.2	12.9	6.5	19.4	6.5	6.5	6.5	00.0	00.0	12.9	6.5	00.0	100.
13	12.9	3.2	00.0	00.0	00.0	3.2	16.1	6.5	16.1	9.7	6.5	6.5	00.0	3.2	12.9	3.2	00.0	100.
14	9.7	00.0	3.2	00.0	00.0	3.2	9.7	6.5	16.1	12.9	6.5	9.7	00.0	00.0	16.1	6.5	00.0	100.
15	9.7	00.0	3.2	00.0	3.2	6.5	6.5	6.5	19.4	3.2	16.1	6.5	00.0	00.0	12.9	6.5	00.0	100.
16	6.5	3.2	3.2	00.0	6.5	3.2	3.2	16.1	12.9	6.5	9.7	6.5	3.2	00.0	12.9	6.5	00.0	100.
17	12.9	3.2	3.2	6.5	00.0	00.0	12.9	3.2	22.6	00.0	12.9	6.5	3.2	00.0	9.7	3.2	00.0	100.
18	12.9	3.2	6.5	00.0	00.0	00.0	00.0	22.6	9.7	6.5	6.5	12.9	3.2	00.0	9.7	6.5	00.0	100.
19	9.7	00.0	3.2	6.5	00.0	00.0	00.0	16.1	12.9	6.5	3.2	16.1	6.5	00.0	9.7	9.7	00.0	100.
20	9.7	6.5	00.0	9.7	00.0	00.0	00.0	16.1	12.9	6.5	6.5	6.5	9.7	3.2	6.5	6.5	00.0	100.
21	9.7	3.2	6.5	3.2	00.0	3.2	00.0	9.7	16.1	3.2	9.7	9.7	00.0	9.7	12.9	3.2	00.0	100.
22	3.2	3.2	6.5	00.0	6.5	00.0	00.0	6.5	16.1	6.5	9.7	00.0	6.5	3.2	19.4	12.9	00.0	100.
23	6.5	6.5	00.0	3.2	3.2	00.0	3.2	3.2	16.1	9.7	9.7	00.0	6.5	3.2	16.1	12.9	00.0	100.
24	16.1	00.0	3.2	00.0	6.5	00.0	3.2	3.2	16.1	9.7	6.5	3.2	3.2	6.5	9.7	12.9	00.0	100.
ALL	10.9	3.0	2.0	2.3	2.7	3.4	5.9	7.1	12.2	8.6	8.5	6.9	3.5	2.8	11.3	9.0	00.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

OCT-DEC

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	7.6	2.2	1.1	5.4	6.5	5.4	5.4	10.9	10.9	4.3	6.5	5.4	3.3	3.3	8.7	13.0	00.0	100.
2	10.9	2.2	1.1	3.3	3.3	9.8	8.7	5.4	12.0	5.4	4.3	5.4	2.2	5.4	13.0	7.6	00.0	100.
3	7.6	00.0	4.3	4.3	4.3	8.7	7.6	10.9	5.4	6.5	5.4	2.2	1.1	7.6	14.1	9.8	00.0	100.
4	10.9	3.3	2.2	2.2	4.3	7.6	10.9	9.8	5.4	4.3	4.3	4.3	3.3	7.6	9.8	9.8	00.0	100.
5	9.8	2.2	2.2	5.4	3.3	8.7	7.6	10.9	4.3	3.3	3.3	5.4	6.5	3.3	12.0	10.9	1.1	100.
6	8.7	3.3	3.3	2.2	4.3	10.9	7.6	10.9	5.4	4.3	2.2	2.2	8.7	5.4	8.7	9.8	2.2	100.
7	7.6	3.3	3.3	3.3	5.4	7.6	8.7	10.9	6.5	3.3	5.4	3.3	4.3	6.5	4.3	16.3	00.0	100.
8	9.8	1.1	4.3	1.1	5.4	8.7	8.7	8.7	8.7	5.4	4.3	3.3	2.2	7.6	6.5	13.0	1.1	100.
9	10.9	1.1	1.1	2.2	4.3	13.0	5.4	9.8	8.7	5.4	5.4	5.4	2.2	6.5	6.5	10.9	1.1	100.
10	10.9	3.3	00.0	00.0	4.3	7.6	10.9	4.3	15.2	7.6	4.3	5.4	3.3	7.6	4.3	10.9	00.0	100.
11	8.7	3.3	2.2	1.1	2.2	5.4	12.0	6.5	13.0	8.7	4.3	5.4	3.3	5.4	6.5	12.0	00.0	100.
12	6.5	6.5	00.0	00.0	2.2	9.8	10.9	8.7	13.0	3.3	6.5	5.4	3.3	5.4	8.7	9.8	00.0	100.
13	8.8	5.5	1.1	00.0	1.1	8.8	11.0	9.9	12.1	3.3	5.5	4.4	3.3	7.7	9.9	7.7	00.0	100.
14	7.6	5.4	1.1	00.0	1.1	7.6	10.9	8.7	13.0	4.3	5.4	3.3	4.3	5.4	12.0	9.8	00.0	100.
15	8.7	3.3	2.2	00.0	4.3	7.6	8.7	9.8	13.0	1.1	7.6	5.4	1.1	6.5	12.0	8.7	00.0	100.
16	7.6	3.3	3.3	00.0	3.3	8.7	6.5	13.0	9.8	6.5	5.4	4.3	1.1	3.3	10.9	13.0	00.0	100.
17	13.0	1.1	3.3	3.3	3.3	7.6	6.5	8.7	15.2	2.2	6.5	4.3	2.2	4.3	7.6	10.9	00.0	100.
18	10.9	2.2	4.3	00.0	3.3	7.6	3.3	14.1	12.0	5.4	3.3	6.5	1.1	2.2	12.0	12.0	00.0	100.
19	10.9	2.2	4.3	2.2	2.2	9.8	3.3	17.4	9.8	2.2	3.3	6.5	2.2	4.3	7.6	12.0	00.0	100.
20	7.6	6.5	3.3	3.3	00.0	12.0	7.6	10.9	10.9	4.3	4.3	2.2	5.4	2.2	7.6	12.0	00.0	100.
21	13.0	3.3	3.3	3.3	2.2	9.8	4.3	10.9	13.0	2.2	5.4	3.3	2.2	4.3	9.8	9.8	00.0	100.
22	10.9	4.3	3.3	1.1	4.3	7.6	4.3	12.0	10.9	4.3	4.3	1.1	2.2	4.3	12.0	13.0	00.0	100.
23	9.8	6.5	2.2	2.2	2.2	7.6	6.5	10.9	12.0	4.3	5.4	1.1	3.3	3.3	13.0	9.8	00.0	100.
24	12.1	2.2	3.3	2.2	5.5	4.4	7.7	8.8	13.2	3.3	5.5	3.3	2.2	5.5	9.9	11.0	00.0	100.
ALL	9.6	3.2	2.5	2.0	3.4	8.4	7.7	10.1	10.6	4.4	4.9	4.1	3.1	5.2	9.5	11.0	.2	100.

NUMBER OF OBS = 2206

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JUL-DEC

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	8.2	3.8	1.6	4.9	4.3	7.6	8.7	17.4	12.0	3.8	5.4	3.3	3.8	1.6	6.0	7.6	00.0	100.
2	9.2	4.3	1.1	4.9	2.7	10.3	8.2	10.9	16.3	4.9	3.8	3.8	1.1	3.3	7.6	7.6	00.0	100.
3	7.1	3.8	3.8	3.8	4.9	8.2	7.6	14.1	12.0	5.4	5.4	2.7	1.1	4.3	8.2	7.6	00.0	100.
4	8.2	6.6	2.7	3.3	3.8	7.7	12.6	12.6	9.8	5.5	3.3	3.3	2.2	4.9	6.0	7.7	00.0	100.
5	7.1	3.8	3.8	5.4	4.9	7.6	7.1	15.8	9.2	5.4	1.6	3.8	4.3	3.8	8.2	7.1	1.1	100.
6	6.5	3.3	4.3	2.7	5.4	10.3	9.8	15.2	9.2	3.8	2.7	2.2	5.4	4.9	6.0	7.1	1.1	100.
7	6.0	2.7	2.2	6.0	4.3	9.2	12.0	14.1	9.2	3.8	5.4	2.7	2.2	4.3	5.4	10.3	00.0	100.
8	7.6	1.1	4.9	2.7	4.3	7.6	12.5	13.6	12.0	7.1	2.7	3.3	1.1	6.0	4.3	8.7	.5	100.
9	8.7	1.6	1.6	2.7	4.9	9.2	12.5	12.0	12.0	6.0	3.8	3.8	2.7	4.3	6.5	7.1	.5	100.
10	8.7	3.8	1.1	2.2	5.4	8.7	11.4	10.3	15.2	8.7	3.3	2.7	2.7	5.4	3.8	6.5	00.0	100.
11	7.6	4.3	2.7	2.7	4.3	7.6	12.0	9.8	16.8	7.1	2.7	3.8	2.7	3.3	4.3	8.2	00.0	100.
12	7.6	4.9	2.2	1.1	3.8	8.2	13.6	13.0	16.3	2.7	3.8	4.3	2.7	4.3	5.4	6.0	00.0	100.
13	8.7	5.5	1.6	2.2	3.8	7.1	12.6	14.2	14.8	3.8	3.8	2.7	2.2	4.9	6.6	5.5	00.0	100.
14	8.2	4.3	1.6	2.2	2.7	6.0	13.0	14.1	15.2	3.8	4.9	1.6	3.8	5.4	6.5	6.5	00.0	100.
15	10.9	2.2	1.6	1.6	4.3	6.0	13.0	14.7	15.2	1.1	6.0	2.7	1.6	5.4	7.6	6.0	00.0	100.
16	8.2	2.2	2.2	1.1	6.6	4.9	9.8	18.6	12.6	3.8	3.3	3.8	1.1	3.8	7.1	10.9	00.0	100.
17	12.5	1.6	2.2	2.7	6.5	6.0	9.2	17.9	12.5	2.7	3.3	3.8	1.1	3.3	5.4	9.2	00.0	100.
18	9.8	2.2	3.8	.5	6.5	6.5	12.0	17.4	10.3	3.3	2.2	4.9	.5	2.2	6.5	11.4	00.0	100.
19	8.2	2.7	3.8	5.4	4.9	8.2	13.6	16.8	9.2	1.1	2.7	3.8	1.1	2.2	6.0	9.8	.5	100.
20	7.1	4.3	4.9	4.9	3.8	12.0	15.8	14.1	8.2	3.3	3.3	1.1	2.7	1.6	4.3	8.7	00.0	100.
21	10.3	4.3	3.8	4.3	3.8	12.5	10.3	16.3	10.9	2.2	3.8	1.6	1.6	2.7	4.9	6.5	00.0	100.
22	8.2	3.3	2.7	4.9	4.9	10.9	10.3	17.4	10.9	3.8	2.7	1.1	2.2	2.7	6.0	8.2	00.0	100.
23	9.2	4.3	1.6	3.8	4.9	10.9	9.2	14.1	15.8	3.8	3.8	1.6	1.6	2.2	7.1	6.0	00.0	100.
24	9.3	2.7	2.2	2.7	5.5	6.6	11.5	15.8	13.7	4.4	3.3	3.3	2.7	3.3	5.5	7.7	00.0	100.
ALL	8.5	3.5	2.7	3.3	4.6	8.3	11.2	14.6	12.5	4.2	3.6	3.0	2.3	3.8	6.1	7.8	.2	100.

NUMBER OF OBS = 4412

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION 2025

PROGRAM: WINPER
VERSION: PC-1.0

HOURLY WIND ROSES (PERCENT)

JAN-DEC

WIND DIRECTION

HR. OF DAY	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM	TOTAL
1	8.0	3.3	3.0	4.4	4.1	7.1	8.5	14.8	11.3	4.1	4.4	3.6	3.3	3.8	7.4	8.8	00.0	100.
2	7.2	3.9	2.5	4.7	4.4	7.7	6.3	11.3	14.6	5.5	3.9	3.6	1.1	5.2	8.5	9.6	00.0	100.
3	5.5	4.9	4.7	3.6	4.7	6.6	6.0	11.3	12.6	6.0	4.9	3.3	.8	6.9	8.8	9.3	00.0	100.
4	6.6	5.5	4.1	3.6	3.3	6.9	8.0	11.6	10.7	6.3	4.1	3.6	2.2	5.8	8.8	8.8	00.0	100.
5	6.6	5.2	4.9	3.8	4.7	5.8	6.3	12.9	8.8	6.0	3.0	4.1	3.3	6.6	7.7	9.6	.5	100.
6	6.0	4.7	3.6	4.1	4.9	7.4	6.9	13.7	9.6	3.3	3.0	4.1	3.6	6.3	8.8	9.3	.5	100.
7	6.6	4.1	2.5	5.0	5.2	7.2	8.3	11.8	9.4	3.9	5.0	3.9	2.8	5.5	8.3	10.7	00.0	100.
8	8.0	2.8	3.3	4.2	3.9	6.6	9.7	11.1	10.0	6.4	3.3	3.9	1.7	7.5	6.9	10.5	.3	100.
9	10.0	3.0	2.2	2.8	4.7	7.2	8.9	10.8	9.4	6.9	3.0	3.9	3.0	5.3	8.9	9.7	.3	100.
10	9.9	4.7	1.4	1.9	6.4	5.8	9.4	8.0	12.2	8.8	2.8	2.8	2.8	5.5	9.1	8.6	00.0	100.
11	8.2	7.1	2.5	2.2	5.8	5.8	9.9	8.2	12.9	7.1	2.5	3.3	3.3	4.4	8.2	8.8	00.0	100.
12	9.9	5.8	3.0	1.4	4.7	7.4	10.4	9.9	12.9	4.9	3.3	3.0	2.7	4.1	9.3	7.4	00.0	100.
13	9.1	5.2	2.5	3.3	4.7	6.3	10.4	11.0	11.8	5.2	3.6	2.2	3.3	4.1	8.8	8.5	00.0	100.
14	8.2	4.1	2.5	3.0	3.3	4.9	12.1	11.0	12.6	5.5	3.3	2.5	3.6	4.9	10.1	8.5	00.0	100.
15	11.0	4.1	2.7	2.2	3.6	4.9	11.3	11.5	13.2	4.4	4.4	3.0	2.5	5.2	10.2	5.8	00.0	100.
16	9.1	2.5	4.4	2.2	3.9	5.0	8.0	14.6	12.4	5.2	4.1	3.0	3.0	3.3	9.1	10.2	00.0	100.
17	10.1	3.6	3.0	3.0	4.4	5.2	8.5	13.7	11.8	4.9	4.1	3.8	2.2	3.3	7.4	11.0	00.0	100.
18	8.5	3.6	4.9	1.9	4.4	5.2	10.2	14.0	11.0	4.1	3.6	3.6	2.5	2.7	6.9	12.9	00.0	100.
19	7.1	4.1	3.8	4.7	5.2	5.5	12.3	14.0	9.6	2.5	4.9	3.3	1.4	2.7	6.8	11.8	.3	100.
20	5.8	5.2	4.1	4.1	6.0	7.9	13.4	12.1	9.3	3.6	4.1	2.5	1.9	2.7	6.8	10.4	00.0	100.
21	8.5	4.9	3.8	3.8	5.8	7.9	10.7	13.7	10.4	3.6	3.6	3.0	1.4	4.1	5.2	9.6	00.0	100.
22	8.2	3.6	4.4	3.8	4.7	8.8	10.7	13.7	10.4	4.9	2.5	3.3	2.5	3.8	6.0	8.5	00.0	100.
23	8.0	4.1	2.5	3.8	4.7	9.3	8.5	13.5	11.8	5.2	3.0	3.8	1.9	4.1	6.0	9.6	00.0	100.
24	8.2	3.3	2.2	3.8	4.9	7.7	9.6	12.9	11.3	5.8	3.0	3.3	3.6	5.2	6.0	9.1	00.0	100.
ALL	8.1	4.3	3.3	3.4	4.7	6.7	9.3	12.1	11.2	5.2	3.6	3.3	2.5	4.7	7.9	9.5	.1	100.

NUMBER OF OBS = 8731

Precipitation

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	12N	TOTAL
			1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	12MDNT	
25	1	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.01	.00	.01	.00	.00	.00	.00	.01	.00	.00	.03
25	1	10	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.02
25	1	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
25	1	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	1	30	.00	.00	.00	.00	.01	.00	.00	.00	.01	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.06	.08	.21
25	1	31	.12	.08	.06	.16	.07	.02	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.51

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF JANUARY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 16
TOTAL DAYS WITH PRECIPITATION - 4
TOTAL AMOUNT OF PRECIPITATION - .77 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .16 INCHES
MAXIMUM DAILY PRECIPITATION - .51 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 31 HOUR 4 - .16 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 30 HOUR 24 - .57 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 30 HOUR 22 - .70 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 30 HOUR 22 - .70 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 30 HOUR 9 - .71 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 518
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 2
TOTAL DAYS WITH PRECIPITATION - 1
TOTAL AMOUNT OF PRECIPITATION - .02 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .01 INCHES
MAXIMUM DAILY PRECIPITATION - .02 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF JANUARY

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	16	46	70	88	95
.02	9	24	45	63	72
.03	8	13	26	38	50
.04	8	13	21	33	41
.05	8	13	19	25	27
.07	5	12	18	25	27
.10	2	11	17	23	26
.15	1	10	16	22	25
.20	0	9	15	22	25
.25	0	9	15	21	24
.30	0	8	14	20	24
.35	0	6	12	18	23
.40	0	4	10	17	23
.45	0	4	10	16	22
.50	0	3	9	15	21
.60	0	0	7	13	19
.70	0	0	4	10	16
.80	0	0	0	0	0
.90	0	0	0	0	0
1.00	0	0	0	0	0
1.10	0	0	0	0	0
1.20	0	0	0	0	0
1.30	0	0	0	0	0
1.40	0	0	0	0	0
1.50	0	0	0	0	0
1.60	0	0	0	0	0
1.70	0	0	0	0	0
1.80	0	0	0	0	0
1.90	0	0	0	0	0
2.00	0	0	0	0	0

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
25	2	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.02	.03	.04	.00	.01	.00	.00	.00	.00	.00	.00	.10
25	2	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
25	2	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
25	2	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	2	28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF FEBRUARY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 672
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 5
TOTAL DAYS WITH PRECIPITATION - 2
TOTAL AMOUNT OF PRECIPITATION - .12 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .04 INCHES
MAXIMUM DAILY PRECIPITATION - .10 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 14 HOUR 16 - .04 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 14 HOUR 14 - .10 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 14 HOUR 14 - .10 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 14 HOUR 14 - .10 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 14 HOUR 14 - .10 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 415
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF FEBRUARY

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT	DURATION (HOURS)				
INCHES	1	6	12	18	24
.01	5	16	28	40	52
.02	4	14	26	38	50
.03	2	7	13	19	25
.04	1	7	13	19	25
.05	0	7	13	19	25
.07	0	5	11	17	23
.10	0	2	8	14	20
.15	0	0	0	0	0
.20	0	0	0	0	0
.25	0	0	0	0	0
.30	0	0	0	0	0
.35	0	0	0	0	0
.40	0	0	0	0	0
.45	0	0	0	0	0
.50	0	0	0	0	0
.60	0	0	0	0	0
.70	0	0	0	0	0
.80	0	0	0	0	0
.90	0	0	0	0	0
1.00	0	0	0	0	0
1.10	0	0	0	0	0
1.20	0	0	0	0	0
1.30	0	0	0	0	0
1.40	0	0	0	0	0
1.50	0	0	0	0	0
1.60	0	0	0	0	0
1.70	0	0	0	0	0
1.80	0	0	0	0	0
1.90	0	0	0	0	0
2.00	0	0	0	0	0

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	12N	TOTAL
			1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	12MDNT	
25	3	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.01	.06	.07	.07	.12	.07	.03	.03	.01	.01	.00	.00	.48
25	3	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
25	3	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	3	31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF MARCH

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 10
TOTAL DAYS WITH PRECIPITATION - 1
TOTAL AMOUNT OF PRECIPITATION - .48 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .12 INCHES
MAXIMUM DAILY PRECIPITATION - .48 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 4 HOUR 17 - .12 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 4 HOUR 14 - .42 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 4 HOUR 13 - .48 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 4 HOUR 13 - .48 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 4 HOUR 13 - .48 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 94
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 1
TOTAL DAYS WITH PRECIPITATION - 1
TOTAL AMOUNT OF PRECIPITATION - .01 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .01 INCHES
MAXIMUM DAILY PRECIPITATION - .01 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF MARCH

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	10	15	21	27	33
.02	7	13	19	25	31
.03	7	12	18	24	30
.04	5	12	18	24	30
.05	5	12	18	24	30
.07	4	11	17	23	29
.10	1	9	15	21	27
.15	0	8	14	20	26
.20	0	7	13	19	25
.25	0	6	12	18	24
.30	0	5	11	17	23
.35	0	3	9	15	21
.40	0	2	9	15	21
.45	0	0	6	12	18
.50	0	0	0	0	0
.60	0	0	0	0	0
.70	0	0	0	0	0
.80	0	0	0	0	0
.90	0	0	0	0	0
1.00	0	0	0	0	0
1.10	0	0	0	0	0
1.20	0	0	0	0	0
1.30	0	0	0	0	0
1.40	0	0	0	0	0
1.50	0	0	0	0	0
1.60	0	0	0	0	0
1.70	0	0	0	0	0
1.80	0	0	0	0	0
1.90	0	0	0	0	0
2.00	0	0	0	0	0

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

JAN-MAR INDEX

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2160
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 31
TOTAL DAYS WITH PRECIPITATION - 7
TOTAL AMOUNT OF PRECIPITATION - 1.37 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .16 INCHES
MAXIMUM DAILY PRECIPITATION - .51 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 1 DAY 31 HOUR 4 - .16 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 1 DAY 30 HOUR 24 - .57 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 1 DAY 30 HOUR 22 - .70 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 1 DAY 30 HOUR 22 - .70 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 1 DAY 30 HOUR 9 - .71 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 1027
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 3
TOTAL DAYS WITH PRECIPITATION - 2
TOTAL AMOUNT OF PRECIPITATION - .03 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .01 INCHES
MAXIMUM DAILY PRECIPITATION - .02 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

JAN-MAR INDEX

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	31	77	119	155	185
.02	20	51	90	126	158
.03	17	32	57	81	109
.04	14	32	52	76	100
.05	13	32	50	68	86
.07	9	28	46	65	83
.10	3	22	40	58	76
.15	1	18	30	42	54
.20	0	16	28	41	53
.25	0	15	27	39	51
.30	0	13	25	37	49
.35	0	9	21	33	45
.40	0	6	19	32	44
.45	0	4	16	28	40
.50	0	3	9	15	21
.60	0	0	7	13	19
.70	0	0	4	10	16
.80	0	0	0	0	0
.90	0	0	0	0	0
1.00	0	0	0	0	0
1.10	0	0	0	0	0
1.20	0	0	0	0	0
1.30	0	0	0	0	0
1.40	0	0	0	0	0
1.50	0	0	0	0	0
1.60	0	0	0	0	0
1.70	0	0	0	0	0
1.80	0	0	0	0	0
1.90	0	0	0	0	0
2.00	0	0	0	0	0

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
25	4	1	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .21	.00 .16	.37
25	4	2	.17 .00	.28 .00	.20 .00	.00 .00	.00 .00	.01 .00	.11 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.77
25	4	3	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	4	4	.00 .02	.00 .01	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .01	.02 .00	.03 .00	.02 .00	.11
25	4	5	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	4	6	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	4	7	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	4	8	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	4	9	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	4	10	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	4	11	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	4	12	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	4	13	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	4	14	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	4	15	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	4	16	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	4	17	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
25	4	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	4	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	4	20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00	
			.00	.00	.00	.00	.00	.00	.00	.03	.01	.00	.00	.00	.06
25	4	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	4	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	4	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.03	.00	.00	.01	.00	.00	.00	.04
25	4	24	.00	.40	.26	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.67
25	4	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	4	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	4	27	.00	.00	.00	.00	.01	.01	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
25	4	28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	4	29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	4	30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF APRIL

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 24
TOTAL DAYS WITH PRECIPITATION - 7
TOTAL AMOUNT OF PRECIPITATION - 2.04 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .40 INCHES
MAXIMUM DAILY PRECIPITATION - .77 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 24 HOUR 2 - .40 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 1 HOUR 23 - 1.02 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 1 HOUR 23 - 1.14 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 1 HOUR 23 - 1.14 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 1 HOUR 23 - 1.14 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 8
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF APRIL

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	24	72	112	148	177
.02	14	52	89	119	148
.03	11	41	67	91	114
.04	8	36	64	88	111
.05	8	28	49	73	96
.07	8	26	44	62	79
.10	8	23	41	59	76
.15	7	17	29	41	52
.20	5	17	29	41	52
.25	3	16	28	40	52
.30	1	15	27	39	51
.35	1	14	26	38	50
.40	1	13	25	37	49
.45	0	12	24	36	48
.50	0	12	24	36	48
.60	0	11	23	35	47
.70	0	4	14	26	38
.80	0	4	10	16	22
.90	0	2	9	15	21
1.00	0	2	8	14	20
1.10	0	0	4	10	16
1.20	0	0	0	0	0
1.30	0	0	0	0	0
1.40	0	0	0	0	0
1.50	0	0	0	0	0
1.60	0	0	0	0	0
1.70	0	0	0	0	0
1.80	0	0	0	0	0
1.90	0	0	0	0	0
2.00	0	0	0	0	0

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	12N	
			1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	12MDNT	TOTAL
25	5	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	5	2	.00	.00	.00	.00	.00	.01	.10	.02	.00	.00	.00	.00	
			.12	.02	.00	.00	.02	.00	.00	.00	.00	.00	.00	.00	.29
25	5	3	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
25	5	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	5	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	5	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	5	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	5	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	5	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	5	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	5	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	5	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	5	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	5	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	5	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	5	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	5	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
25	5	18	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .01	.00 .04	.00 .04	.00 .01	.10
25	5	19	.00 .00	.01 .00	.20 .00	.01 .00	.01 .00	.00 .01	.00 .17	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.41
25	5	20	.00 .00	.00 .00	.06 .00	.11 .00	.01 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.18
25	5	21	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	5	22	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	5	23	.00 .00	.00 .00	.00 .00	.00 .03	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.01 .00	.04
25	5	24	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	5	25	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.02 .00	.01 .00	.00 .00	.00 .00	.00 .00	.03
25	5	26	.00 .00	.00 .05	.00 .10	.00 .10	.00 .03	.00 .01	.00 .04	.00 .06	.00 .13	.00 .04	.00 .00	.00 .00	.56
25	5	27	.01 .00	.01 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.02
25	5	28	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	5	29	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	5	30	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	5	31	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF MAY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 35
TOTAL DAYS WITH PRECIPITATION - 9
TOTAL AMOUNT OF PRECIPITATION - 1.64 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .20 INCHES
MAXIMUM DAILY PRECIPITATION - .56 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 19 HOUR 3 - .20 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 26 HOUR 16 - .37 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 26 HOUR 14 - .57 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 26 HOUR 14 - .58 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 26 HOUR 14 - .58 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF MAY

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	35	87	130	161	191
.02	21	70	108	141	171
.03	17	62	101	137	167
.04	15	53	85	113	137
.05	11	50	76	99	117
.07	8	46	73	95	113
.10	8	45	72	94	112
.15	2	31	62	84	102
.20	1	16	38	63	86
.25	0	11	33	59	86
.30	0	5	21	41	64
.35	0	1	11	25	43
.40	0	0	7	15	27
.45	0	0	6	12	22
.50	0	0	6	12	21
.60	0	0	0	0	0
.70	0	0	0	0	0
.80	0	0	0	0	0
.90	0	0	0	0	0
1.00	0	0	0	0	0
1.10	0	0	0	0	0
1.20	0	0	0	0	0
1.30	0	0	0	0	0
1.40	0	0	0	0	0
1.50	0	0	0	0	0
1.60	0	0	0	0	0
1.70	0	0	0	0	0
1.80	0	0	0	0	0
1.90	0	0	0	0	0
2.00	0	0	0	0	0

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
25	6	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	6	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	6	3	.03	.05	.01	.05	.03	.00	.02	.03	.14	.06	.03	.08	
			.48	.16	.02	.01	.01	.01	.00	.00	.00	.00	.00	.00	1.22
25	6	4	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
25	6	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	6	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	6	7	.00	.00	.00	.00	.00	.00	.20	.18	.14	.29	.11	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.92
25	6	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
25	6	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	6	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	6	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	6	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	6	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	6	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	6	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	6	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	6	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
25	6	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.07	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
25	6	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	6	20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	6	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	6	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	6	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.01	.00	.00	1.22	1.44	.65	.00	.00	.00	.00	.00	3.32
25	6	24	.00	.00	1.29	.47	.00	.02	.01	.00	.00	.00	.00	.00	
			.00	.00	.20	.23	.05	.10	.08	.02	.00	.00	.00	.00	2.47
25	6	25	.31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.31
25	6	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.09	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.09
25	6	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	6	28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	6	29	.00	.00	.00	.00	.00	.00	.39	.05	.10	.07	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.61
25	6	30	.00	.00	.00	.00	.00	.00	.02	.16	.05	.00	.00	.00	
			.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.24

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF JUNE

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 50
TOTAL DAYS WITH PRECIPITATION - 11
TOTAL AMOUNT OF PRECIPITATION - 9.29 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 1.44 INCHES
MAXIMUM DAILY PRECIPITATION - 3.32 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 23 HOUR 18 - 1.44 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 23 HOUR 14 - 3.32 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 23 HOUR 17 - 5.07 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 23 HOUR 14 - 5.11 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 23 HOUR 17 - 5.53 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF JUNE

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	50	118	173	215	254
.02	41	95	143	183	216
.03	35	92	139	180	214
.04	31	88	137	178	212
.05	31	88	137	177	211
.07	25	86	135	176	210
.10	20	71	108	137	160
.15	15	67	106	135	158
.20	12	62	101	130	155
.25	9	52	86	110	136
.30	8	48	86	110	136
.35	7	42	80	104	129
.40	6	39	77	101	125
.45	6	36	73	97	121
.50	4	34	71	96	120
.60	4	29	63	90	114
.70	3	22	47	74	93
.80	3	19	43	68	89
.90	3	16	40	65	86
1.00	3	13	29	43	58
1.10	3	13	23	37	49
1.20	3	13	22	31	44
1.30	1	11	21	27	34
1.40	1	11	21	27	34
1.50	0	11	21	27	33
1.60	0	11	21	27	33
1.70	0	11	21	27	33
1.80	0	6	13	25	33
1.90	0	6	13	25	33
2.00	0	6	13	24	33

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

APR-JUN INDEX

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2184
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 109
TOTAL DAYS WITH PRECIPITATION - 27
TOTAL AMOUNT OF PRECIPITATION - 12.97 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 1.44 INCHES
MAXIMUM DAILY PRECIPITATION - 3.32 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 23 HOUR 18 - 1.44 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 23 HOUR 14 - 3.32 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 23 HOUR 17 - 5.07 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 23 HOUR 14 - 5.11 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 23 HOUR 17 - 5.53 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 8
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

APR-JUN INDEX

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	109	277	415	524	622
.02	76	217	340	443	535
.03	63	195	307	408	495
.04	54	177	286	379	460
.05	50	166	262	349	424
.07	41	158	252	333	402
.10	36	139	221	290	348
.15	24	115	197	260	312
.20	18	95	168	234	293
.25	12	79	147	209	274
.30	9	68	134	190	251
.35	8	57	117	167	222
.40	7	52	109	153	201
.45	6	48	103	145	191
.50	4	46	101	144	189
.60	4	40	86	125	161
.70	3	26	61	100	131
.80	3	23	53	84	111
.90	3	18	49	80	107
1.00	3	15	37	57	78
1.10	3	13	27	47	65
1.20	3	13	22	31	44
1.30	1	11	21	27	34
1.40	1	11	21	27	34
1.50	0	11	21	27	33
1.60	0	11	21	27	33
1.70	0	11	21	27	33
1.80	0	6	13	25	33
1.90	0	6	13	25	33
2.00	0	6	13	24	33

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

JAN-JUN INDEX

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 4344
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 140
TOTAL DAYS WITH PRECIPITATION - 34
TOTAL AMOUNT OF PRECIPITATION - 14.34 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 1.44 INCHES
MAXIMUM DAILY PRECIPITATION - 3.32 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 23 HOUR 18 - 1.44 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 23 HOUR 14 - 3.32 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 23 HOUR 17 - 5.07 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 23 HOUR 14 - 5.11 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 23 HOUR 17 - 5.53 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 1035
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 3
TOTAL DAYS WITH PRECIPITATION - 2
TOTAL AMOUNT OF PRECIPITATION - .03 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .01 INCHES
MAXIMUM DAILY PRECIPITATION - .02 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

JAN-JUN INDEX

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	140	354	534	679	808
.02	96	268	430	569	694
.03	80	227	364	489	605
.04	68	209	338	455	561
.05	63	198	312	417	511
.07	50	186	298	398	486
.10	39	161	261	348	425
.15	25	133	227	302	367
.20	18	111	196	275	347
.25	12	94	174	248	325
.30	9	81	159	227	300
.35	8	66	138	200	267
.40	7	58	128	185	245
.45	6	52	119	173	231
.50	4	49	110	159	210
.60	4	40	93	138	180
.70	3	26	65	110	147
.80	3	23	53	84	111
.90	3	18	49	80	107
1.00	3	15	37	57	78
1.10	3	13	27	47	65
1.20	3	13	22	31	44
1.30	1	11	21	27	34
1.40	1	11	21	27	34
1.50	0	11	21	27	33
1.60	0	11	21	27	33
1.70	0	11	21	27	33
1.80	0	6	13	25	33
1.90	0	6	13	25	33
2.00	0	6	13	24	33

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	12N	TOTAL
			1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	12MDNT	
25	7	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	7	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	7	3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	7	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	7	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	7	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	7	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.51	.51
25	7	8	.17	.08	.03	.03	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.31
25	7	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	7	10	.00	.00	.00	.05	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
25	7	11	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
25	7	12	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
25	7	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	7	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	7	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	7	16	.00	.01	.02	.20	.11	.05	.26	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.21	.02	.89
25	7	17	.03	.05	.02	.03	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.13

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
25	7	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	7	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	7	20	.01	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
25	7	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
25	7	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	7	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	7	24	.00	.38	.78	.77	.54	.00	.00	.00	.00	.12	.01	.00	
			.00	.01	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	2.62
25	7	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.25	.00	.00	.01	.00	.00	.01	.00	.00	.27
25	7	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	7	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	7	28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	7	29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	7	30	.00	.40	.31	.08	.19	.00	.01	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.99
25	7	31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF JULY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 40
TOTAL DAYS WITH PRECIPITATION - 12
TOTAL AMOUNT OF PRECIPITATION - 5.84 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .78 INCHES
MAXIMUM DAILY PRECIPITATION - 2.62 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 24 HOUR 3 - .78 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 24 HOUR 2 - 2.47 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 24 HOUR 2 - 2.60 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 24 HOUR 2 - 2.62 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 24 HOUR 2 - 2.62 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF JULY

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	40	107	173	236	292
.02	28	79	127	173	219
.03	25	73	121	167	209
.04	20	68	116	162	204
.05	20	63	105	145	181
.07	17	55	91	125	155
.10	15	55	91	125	155
.15	13	47	88	122	152
.20	11	46	82	116	146
.25	9	42	78	114	144
.30	7	33	63	94	119
.35	6	28	58	90	117
.40	5	25	49	75	99
.45	4	23	47	73	98
.50	4	23	47	73	98
.60	2	21	45	69	96
.70	2	16	34	52	76
.80	0	12	30	48	71
.90	0	10	22	34	49
1.00	0	7	13	19	25
1.10	0	7	13	19	25
1.20	0	6	12	18	24
1.30	0	6	12	18	24
1.40	0	5	12	18	24
1.50	0	5	11	17	23
1.60	0	5	11	17	23
1.70	0	5	11	17	23
1.80	0	5	11	17	23
1.90	0	5	11	17	23
2.00	0	4	10	16	22

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
25	8	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	6	.00	.00	.00	.00	.00	.00	.00	.00	.98	.20	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.18
25	8	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.05	.01	.00	.00	.00	.00	.00	.00	.06
25	8	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	10	.00	.00	.23	.13	.14	.02	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.52
25	8	11	.00	.00	.00	.00	.00	.00	.00	.00	.13	.27	.03	.01	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.44
25	8	12	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
25	8	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
25	8	18	.00	.00	.00	.00	.00	.00	.02	.03	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05
25	8	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.01
25	8	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	24	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
25	8	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	8	30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.03	.01	.03	.01	.06	.05	.04	.04	.27
25	8	31	.00	.00	.00	.00	.01	.00	.16	.25	.31	.08	.21	.21	
			.26	.07	.08	.35	.05	.13	.23	.07	.07	.00	.00	.02	2.56

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF AUGUST

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 42
TOTAL DAYS WITH PRECIPITATION - 10
TOTAL AMOUNT OF PRECIPITATION - 5.11 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .98 INCHES
MAXIMUM DAILY PRECIPITATION - 2.56 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 6 HOUR 9 - .98 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 31 HOUR 8 - 1.32 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 31 HOUR 8 - 2.23 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 31 HOUR 7 - 2.55 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 30 HOUR 22 - 2.67 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF AUGUST

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	42	89	137	184	226
.02	34	68	99	130	160
.03	31	66	97	127	157
.04	27	64	95	125	155
.05	25	62	93	123	154
.07	21	50	70	88	106
.10	16	47	68	86	104
.15	12	44	66	84	102
.20	11	40	64	82	100
.25	6	35	60	79	97
.30	3	34	53	71	89
.35	2	33	52	70	88
.40	1	31	50	69	87
.45	1	25	39	51	67
.50	1	25	39	51	63
.60	1	19	29	35	41
.70	1	19	28	34	40
.80	1	18	28	34	40
.90	1	17	26	34	40
1.00	0	11	25	33	39
1.10	0	9	24	31	37
1.20	0	2	13	14	14
1.30	0	1	12	13	13
1.40	0	0	11	13	13
1.50	0	0	10	12	13
1.60	0	0	8	12	12
1.70	0	0	7	11	12
1.80	0	0	6	9	11
1.90	0	0	5	9	10
2.00	0	0	4	9	9

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	12N	TOTAL
			1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	12MDNT	
25	9	1	.00	.00	.01	.00	.16	.33	.30	.37	.32	.25	.11	.04	
			.00	.05	.06	.02	.01	.00	.00	.02	.00	.00	.00	.00	2.05
25	9	2	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
25	9	3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	9	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	9	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	9	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	9	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	9	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	9	9	.00	.00	.00	.00	.03	.07	.00	.04	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.14
25	9	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	9	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	9	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	9	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	9	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	9	15	.00	.00	.00	.01	.06	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.01	.00	.01	.00	.00	.00	.00	.00	.00	.09
25	9	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	9	17	.00	.00	.00	.00	.00	.16	.00	.00	.01	.00	.00	.01	
			.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.19

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
25	9	18	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	
			.00	.00	.02	.12	.04	.00	.00	.00	.00	.00	.00	.00	.19
25	9	19	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.20	.13	.34
25	9	20	.04	.02	.06	.03	.00	.01	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16
25	9	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	9	22	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
25	9	23	.00	.00	.01	.06	.06	.17	.29	.20	.03	.00	.00	.02	
			.01	.01	.00	.08	.01	.01	.00	.00	.00	.00	.00	.00	.96
25	9	24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
25	9	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	9	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	9	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	9	28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	9	29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	9	30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF SEPTEMBER

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 53
TOTAL DAYS WITH PRECIPITATION - 11
TOTAL AMOUNT OF PRECIPITATION - 4.15 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .37 INCHES
MAXIMUM DAILY PRECIPITATION - 2.05 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 1 HOUR 8 - .37 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 1 HOUR 5 - 1.73 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 1 HOUR 5 - 2.01 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 1 HOUR 3 - 2.05 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 1 HOUR 3 - 2.05 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF SEPTEMBER

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT	DURATION (HOURS)				
INCHES	1	6	12	18	24
.01	53	129	192	239	272
.02	34	89	131	169	207
.03	29	76	114	153	193
.04	26	72	108	145	183
.05	22	67	105	141	177
.07	16	65	103	139	175
.10	14	58	90	120	150
.15	11	39	67	91	116
.20	8	26	39	51	69
.25	6	25	37	49	61
.30	4	22	36	48	60
.35	1	20	33	45	57
.40	0	18	30	42	54
.45	0	18	30	42	54
.50	0	16	22	28	34
.60	0	12	20	26	32
.70	0	11	19	25	31
.80	0	8	18	24	30
.90	0	6	8	14	20
1.00	0	6	8	8	8
1.10	0	5	8	8	8
1.20	0	4	8	8	8
1.30	0	4	7	7	7
1.40	0	3	7	7	7
1.50	0	2	7	7	7
1.60	0	2	6	6	6
1.70	0	1	6	6	6
1.80	0	0	6	6	6
1.90	0	0	3	5	5
2.00	0	0	1	5	5

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

JUL-SEP INDEX

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2208
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 135
TOTAL DAYS WITH PRECIPITATION - 33
TOTAL AMOUNT OF PRECIPITATION - 15.10 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .98 INCHES
MAXIMUM DAILY PRECIPITATION - 2.62 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 8 DAY 6 HOUR 9 - .98 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 24 HOUR 2 - 2.47 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 24 HOUR 2 - 2.60 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 24 HOUR 2 - 2.62 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 8 DAY 31 HOUR 11 - 3.49 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

JUL-SEP INDEX

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	135	330	513	676	813
.02	96	241	368	489	609
.03	85	220	343	464	582
.04	73	207	330	449	565
.05	67	195	314	426	535
.07	54	173	275	369	459
.10	45	162	260	348	432
.15	36	132	232	314	393
.20	30	112	196	266	338
.25	21	102	186	259	325
.30	14	89	163	230	291
.35	9	81	154	222	285
.40	6	74	140	203	263
.45	5	66	127	183	242
.50	5	64	119	169	218
.60	3	52	104	147	192
.70	3	46	90	128	170
.80	1	38	85	123	164
.90	1	33	64	99	132
1.00	0	24	52	77	95
1.10	0	21	49	75	93
1.20	0	12	37	57	69
1.30	0	11	34	55	67
1.40	0	8	33	55	67
1.50	0	7	31	53	66
1.60	0	7	27	52	64
1.70	0	6	26	51	64
1.80	0	5	24	47	63
1.90	0	5	19	43	61
2.00	0	4	15	42	59

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	12N	TOTAL
			1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	12MDNT	
25	10	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	10	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	10	3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	10	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	10	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.01	.06	.28	.40	.75
25	10	6	.21	.04	.03	.05	.09	.13	.09	.04	.00	.13	.02	.01	
			.27	.07	.00	.19	.17	.02	.01	.02	.02	.01	.03	.14	1.79
25	10	7	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06
25	10	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	10	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	10	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	10	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	10	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	10	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	10	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
25	10	15	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00	.00	
			.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
25	10	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	10	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.10

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	12N	TOTAL
			1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	12MDNT	
25	10	18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	10	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	10	20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	10	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	10	22	.00	.00	.00	.00	.00	.00	9.99	9.99	9.99	9.99	9.99	9.99	
			9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	.00
25	10	23	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	9.99	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	10	24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.02	.00	.00	.00	.00	.02	.00	.00	.00	.00	.04
25	10	25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.01
25	10	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	10	27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	10	28	.00	.00	.00	.00	.01	.00	.02	.06	.12	.09	.03	.02	
			.02	.02	.05	.02	.03	.03	.03	.03	.01	.00	.00	.00	.59
25	10	29	.00	.01	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
25	10	30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	10	31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF OCTOBER

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 30
TOTAL HOURS OF PRECIPITATION - 54
TOTAL DAYS WITH PRECIPITATION - 10
TOTAL AMOUNT OF PRECIPITATION - 3.43 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .40 INCHES
MAXIMUM DAILY PRECIPITATION - 1.79 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 5 HOUR 24 - .40 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 5 HOUR 22 - 1.02 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 5 HOUR 23 - 1.49 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 5 HOUR 23 - 2.05 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 5 HOUR 22 - 2.35 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 1
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - .00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .00 INCHES
MAXIMUM DAILY PRECIPITATION - .00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF OCTOBER

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	54	104	146	188	226
.02	42	92	129	165	201
.03	29	64	97	127	161
.04	22	59	90	120	150
.05	20	56	75	93	111
.07	15	55	74	92	110
.10	11	52	71	89	107
.15	6	43	57	69	81
.20	4	37	55	67	79
.25	3	31	48	62	74
.30	1	27	43	56	68
.35	1	22	40	52	64
.40	1	21	35	47	60
.45	0	15	34	46	58
.50	0	12	30	43	55
.60	0	8	28	34	45
.70	0	8	26	32	38
.80	0	5	24	30	36
.90	0	4	21	30	36
1.00	0	3	13	29	35
1.10	0	0	8	23	29
1.20	0	0	6	20	26
1.30	0	0	5	16	25
1.40	0	0	3	11	22
1.50	0	0	0	9	19
1.60	0	0	0	5	14
1.70	0	0	0	5	12
1.80	0	0	0	5	11
1.90	0	0	0	4	10
2.00	0	0	0	1	8

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
25	11	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	11	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	11	3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	11	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	11	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	11	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	11	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	11	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	11	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	11	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	11	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	11	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	11	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	11	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	11	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	11	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	11	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
25	11	18	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	11	19	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	11	20	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	11	21	.00 .00	.00 .01	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.01 .00	.01 .00	.00 .00	.01 .00	.00 .00	.04
25	11	22	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	11	23	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	11	24	.00 .00	.00 .00	.00 .01	.00 .00	.01 .00	.01 .00	.02 .00	.00 .00	.03 .00	.01 .00	.00 .00	.00 .00	.09
25	11	25	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	11	26	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	11	27	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	11	28	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00
25	11	29	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.06 .00	.12 .00	.15 .00	.16 .00	.07 .00	.03 .00	.01 .00	.60
25	11	30	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 .00	.00 9.99	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF NOVEMBER

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720
NUMBER OF MISSING HOURS - 1
TOTAL HOURS OF PRECIPITATION - 17
TOTAL DAYS WITH PRECIPITATION - 3
TOTAL AMOUNT OF PRECIPITATION - .73 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .16 INCHES
MAXIMUM DAILY PRECIPITATION - .60 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 29 HOUR 9 - .16 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 29 HOUR 6 - .59 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 29 HOUR 6 - .60 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 29 HOUR 6 - .60 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 29 HOUR 6 - .60 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 134
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 3
TOTAL DAYS WITH PRECIPITATION - 1
TOTAL AMOUNT OF PRECIPITATION - .11 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .07 INCHES
MAXIMUM DAILY PRECIPITATION - .11 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF NOVEMBER

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	17	40	58	76	94
.02	8	29	47	65	83
.03	7	23	41	59	77
.04	5	19	37	55	73
.05	5	14	28	40	52
.07	4	12	25	37	49
.10	3	9	15	21	27
.15	2	8	14	20	26
.20	0	7	13	19	25
.25	0	7	13	19	25
.30	0	6	12	18	24
.35	0	5	11	17	23
.40	0	5	11	17	23
.45	0	4	10	16	22
.50	0	3	9	15	21
.60	0	0	6	12	18
.70	0	0	0	0	0
.80	0	0	0	0	0
.90	0	0	0	0	0
1.00	0	0	0	0	0
1.10	0	0	0	0	0
1.20	0	0	0	0	0
1.30	0	0	0	0	0
1.40	0	0	0	0	0
1.50	0	0	0	0	0
1.60	0	0	0	0	0
1.70	0	0	0	0	0
1.80	0	0	0	0	0
1.90	0	0	0	0	0
2.00	0	0	0	0	0

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM	2AM	3AM	4AM	5AM	6AM	7AM	8AM	9AM	10AM	11AM	12N	TOTAL
			1PM	2PM	3PM	4PM	5PM	6PM	7PM	8PM	9PM	10PM	11PM	12MDNT	
25	12	1	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.01	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.04
25	12	3	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.01	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
25	12	4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	5	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

YR	MON	DAY	1AM 1PM	2AM 2PM	3AM 3PM	4AM 4PM	5AM 5PM	6AM 6PM	7AM 7PM	8AM 8PM	9AM 9PM	10AM 10PM	11AM 11PM	12N 12MDNT	TOTAL
25	12	18	.00	.00	.00	.07	.07	.02	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.16
25	12	19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	25	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
25	12	26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	27	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.02
25	12	28	.01	.00	.00	.08	.10	.05	.00	.00	.00	.01	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
25	12	29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	12	31	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	
			.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF DECEMBER

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 18
TOTAL DAYS WITH PRECIPITATION - 6
TOTAL AMOUNT OF PRECIPITATION - .52 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .10 INCHES
MAXIMUM DAILY PRECIPITATION - .25 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 28 HOUR 5 - .10 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 28 HOUR 1 - .24 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 27 HOUR 23 - .26 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 27 HOUR 23 - .26 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS DAY 27 HOUR 23 - .26 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 360
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 3
TOTAL DAYS WITH PRECIPITATION - 2
TOTAL AMOUNT OF PRECIPITATION - .03 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .01 INCHES
MAXIMUM DAILY PRECIPITATION - .02 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

MONTH OF DECEMBER

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	18	54	90	125	150
.02	7	32	56	81	101
.03	5	26	50	74	97
.04	5	22	46	70	92
.05	5	15	27	39	58
.07	4	14	26	38	54
.10	1	12	24	36	48
.15	0	10	22	34	46
.20	0	4	11	17	23
.25	0	0	7	13	19
.30	0	0	0	0	0
.35	0	0	0	0	0
.40	0	0	0	0	0
.45	0	0	0	0	0
.50	0	0	0	0	0
.60	0	0	0	0	0
.70	0	0	0	0	0
.80	0	0	0	0	0
.90	0	0	0	0	0
1.00	0	0	0	0	0
1.10	0	0	0	0	0
1.20	0	0	0	0	0
1.30	0	0	0	0	0
1.40	0	0	0	0	0
1.50	0	0	0	0	0
1.60	0	0	0	0	0
1.70	0	0	0	0	0
1.80	0	0	0	0	0
1.90	0	0	0	0	0
2.00	0	0	0	0	0

ENTRIES INDICATE NUMBER OF DURATION PERIODS WITH RAINFALL GREATER THAN OR EQUAL TO AMOUNT SHOWN

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

OCT-DEC INDEX

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2208
NUMBER OF MISSING HOURS - 31
TOTAL HOURS OF PRECIPITATION - 89
TOTAL DAYS WITH PRECIPITATION - 19
TOTAL AMOUNT OF PRECIPITATION - 4.68 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .40 INCHES
MAXIMUM DAILY PRECIPITATION - 1.79 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 10 DAY 5 HOUR 24 - .40 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 10 DAY 5 HOUR 22 - 1.02 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 10 DAY 5 HOUR 23 - 1.49 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 10 DAY 5 HOUR 23 - 2.05 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 10 DAY 5 HOUR 22 - 2.35 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 495
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 6
TOTAL DAYS WITH PRECIPITATION - 3
TOTAL AMOUNT OF PRECIPITATION - .14 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .07 INCHES
MAXIMUM DAILY PRECIPITATION - .11 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

OCT-DEC INDEX

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	89	198	294	389	470
.02	57	153	232	311	385
.03	41	113	188	260	335
.04	32	100	173	245	315
.05	30	85	130	172	221
.07	23	81	125	167	213
.10	15	73	110	146	182
.15	8	61	93	123	153
.20	4	48	79	103	127
.25	3	38	68	94	118
.30	1	33	55	74	92
.35	1	27	51	69	87
.40	1	26	46	64	83
.45	0	19	44	62	80
.50	0	15	39	58	76
.60	0	8	34	46	63
.70	0	8	26	32	38
.80	0	5	24	30	36
.90	0	4	21	30	36
1.00	0	3	13	29	35
1.10	0	0	8	23	29
1.20	0	0	6	20	26
1.30	0	0	5	16	25
1.40	0	0	3	11	22
1.50	0	0	0	9	19
1.60	0	0	0	5	14
1.70	0	0	0	5	12
1.80	0	0	0	5	11
1.90	0	0	0	4	10
2.00	0	0	0	1	8

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

JUL-DEC INDEX

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 4416
NUMBER OF MISSING HOURS - 31
TOTAL HOURS OF PRECIPITATION - 224
TOTAL DAYS WITH PRECIPITATION - 52
TOTAL AMOUNT OF PRECIPITATION - 19.78 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .98 INCHES
MAXIMUM DAILY PRECIPITATION - 2.62 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 8 DAY 6 HOUR 9 - .98 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 24 HOUR 2 - 2.47 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 24 HOUR 2 - 2.60 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 7 DAY 24 HOUR 2 - 2.62 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 8 DAY 31 HOUR 11 - 3.49 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 495
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 6
TOTAL DAYS WITH PRECIPITATION - 3
TOTAL AMOUNT OF PRECIPITATION - .14 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .07 INCHES
MAXIMUM DAILY PRECIPITATION - .11 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

JUL-DEC INDEX

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	224	528	807	1065	1283
.02	153	394	600	800	994
.03	126	333	531	724	917
.04	105	307	503	694	880
.05	97	280	444	598	756
.07	77	254	400	536	672
.10	60	235	370	494	614
.15	44	193	325	437	546
.20	34	160	275	369	465
.25	24	140	254	353	443
.30	15	122	218	304	383
.35	10	108	205	291	372
.40	7	100	186	267	346
.45	5	85	171	245	322
.50	5	79	158	227	294
.60	3	60	138	193	255
.70	3	54	116	160	208
.80	1	43	109	153	200
.90	1	37	85	129	168
1.00	0	27	65	106	130
1.10	0	21	57	98	122
1.20	0	12	43	77	95
1.30	0	11	39	71	92
1.40	0	8	36	66	89
1.50	0	7	31	62	85
1.60	0	7	27	57	78
1.70	0	6	26	56	76
1.80	0	5	24	52	74
1.90	0	5	19	47	71
2.00	0	4	15	43	67

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

JAN-DEC INDEX

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 8760
NUMBER OF MISSING HOURS - 31
TOTAL HOURS OF PRECIPITATION - 364
TOTAL DAYS WITH PRECIPITATION - 86
TOTAL AMOUNT OF PRECIPITATION - 34.12 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 1.44 INCHES
MAXIMUM DAILY PRECIPITATION - 3.32 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 23 HOUR 18 - 1.44 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 23 HOUR 14 - 3.32 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 23 HOUR 17 - 5.07 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 23 HOUR 14 - 5.11 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PRECIPITATION STARTS MONTH 6 DAY 23 HOUR 17 - 5.53 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES

TOTAL NUMBER OF HOURS - 1530
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 9
TOTAL DAYS WITH PRECIPITATION - 5
TOTAL AMOUNT OF PRECIPITATION - .17 INCHES
MAXIMUM 1-HOUR PRECIPITATION - .07 INCHES
MAXIMUM DAILY PRECIPITATION - .11 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR 2025 RAIN VERSION PC-1.0

JAN-DEC INDEX

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
.01	364	882	1343	1752	2105
.02	249	662	1030	1371	1696
.03	206	560	895	1215	1530
.04	173	516	841	1151	1449
.05	160	478	756	1017	1275
.07	127	440	698	935	1165
.10	99	396	631	843	1046
.15	69	326	552	740	920
.20	52	271	471	645	819
.25	36	234	428	601	768
.30	24	203	377	531	683
.35	18	174	343	491	639
.40	14	158	314	452	591
.45	11	137	290	418	553
.50	9	128	268	386	504
.60	7	100	231	331	435
.70	6	80	181	270	355
.80	4	66	162	237	311
.90	4	55	134	209	275
1.00	3	42	102	163	208
1.10	3	34	84	145	187
1.20	3	25	65	108	139
1.30	1	22	60	98	126
1.40	1	19	57	93	123
1.50	0	18	52	89	118
1.60	0	18	48	84	111
1.70	0	17	47	83	109
1.80	0	11	37	77	107
1.90	0	11	32	72	104
2.00	0	10	28	67	100

JOINT FREQUENCY DISTRIBUTION TABLES

The tables presented in this section are results obtained from processing of the hourly meteorological data collected at the Cooper Nuclear Station (CNS). The joint frequency distribution (JFD) tables represent the frequency of occurrence, in number of observations, that a particular wind speed, wind direction, and stability category occurred simultaneously. On a quarterly and semiannual basis, the JFDs were produced for wind speed and wind direction by atmospheric stability corresponding to the seven Pasquill stability classes, and for wind speed and wind direction for all stability categories combined. Atmospheric stability was classified per Regulatory Guide 1.23, using the 100-meter to 10-meter temperature difference (delta T) for the 100-meter JFDs and the 60-meter to 10-meter delta T for the 10-meter JFDs.

JFDs of 10-Meter Wind vs. Delta T

January-March 2025

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-MAR 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 3/31/25

*** JAN-MAR 2025 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5
7.51-12.50	0	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	10
12.51-18.50	1	4	0	0	0	0	0	0	1	2	0	0	0	0	0	0	8
18.51-24.00	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	3
>24.00	0	0	0	0	0	0	0	0	1	5	0	0	0	0	0	0	6
TOTAL	3	15	2	0	0	0	0	0	3	8	0	0	0	0	0	1	32

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	2	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	5
7.51-12.50	3	2	4	0	0	1	0	0	1	0	0	0	0	0	0	3	14
12.51-18.50	2	4	0	0	0	0	0	0	4	6	0	0	0	0	0	5	21
18.51-24.00	0	0	0	0	0	0	0	0	2	2	0	0	0	0	1	1	6
>24.00	1	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	4
TOTAL	8	6	5	1	1	1	0	0	8	8	0	0	0	0	2	10	50

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-MAR 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 3/31/25

*** JAN-MAR 2025 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	1	1	0	3	0	1	0	0	0	0	0	0	0	1	0	2	9
7.51-12.50	3	7	2	0	0	3	0	0	1	1	1	0	0	0	3	9	30
12.51-18.50	8	6	0	0	0	1	1	1	3	2	2	1	0	0	1	9	35
18.51-24.00	2	0	0	0	0	0	0	2	2	1	0	0	0	0	7	1	15
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
TOTAL	14	14	2	3	0	5	1	3	6	4	3	1	0	1	11	22	90

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	2	2	2	0	2	4	2	0	6	2	3	3	5	1	1	2	37
3.51- 7.50	14	23	12	9	2	13	25	9	10	14	13	13	12	17	17	17	220
7.51-12.50	27	27	17	14	1	10	17	11	29	25	29	13	12	26	63	61	382
12.51-18.50	34	27	4	0	0	0	7	23	10	9	9	6	3	11	48	49	240
18.51-24.00	21	11	0	0	0	0	0	6	3	4	5	1	1	3	12	23	90
>24.00	10	1	0	0	0	0	0	1	6	0	0	0	0	0	2	8	28
TOTAL	108	91	35	23	5	27	51	50	64	54	59	36	33	58	143	160	997

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-MAR 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 3/31/25

*** JAN-MAR 2025 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	4	2	5	1	5	2	1	4	3	1	3	3	3	7	4	7	55
3.51- 7.50	13	6	3	3	5	11	13	12	11	11	13	10	14	16	23	18	182
7.51-12.50	8	0	0	1	6	4	13	14	25	20	15	20	7	23	34	16	206
12.51-18.50	10	0	0	0	0	0	2	13	8	14	2	0	0	6	4	9	68
18.51-24.00	0	0	0	0	0	0	1	0	5	3	0	0	0	0	3	0	12
>24.00	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	11	12
TOTAL	35	8	8	5	16	17	30	43	52	50	33	33	24	52	68	61	537

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	12	3	1	1	0	0	3	6	8	5	7	6	3	6	1	5	67
3.51- 7.50	12	2	2	0	0	3	0	14	25	12	6	4	5	11	6	3	105
7.51-12.50	1	1	0	0	0	0	0	3	18	3	4	3	5	10	9	0	57
12.51-18.50	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0	4
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	25	6	3	1	0	3	3	23	51	21	17	13	14	27	19	8	235

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-MAR 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 3/31/25

*** JAN-MAR 2025 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	21
1.01- 3.50	10	7	2	1	1	2	4	9	24	14	14	10	10	3	10	9	130
3.51- 7.50	3	2	0	0	0	0	1	3	10	3	1	3	4	3	6	3	42
7.51-12.50	0	0	0	0	0	0	0	0	2	1	0	2	0	5	0	0	10
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	13	9	2	1	1	2	5	12	36	18	15	15	14	11	16	12	203

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	24
1.01- 3.50	28	14	10	3	8	8	10	19	41	22	27	22	21	17	16	23	289
3.51- 7.50	47	36	18	16	8	28	39	38	56	40	33	30	35	48	52	44	568
7.51-12.50	42	45	25	15	7	18	30	28	76	50	49	38	24	64	109	89	709
12.51-18.50	55	41	4	0	0	1	10	37	26	34	13	7	4	17	55	72	376
18.51-24.00	23	12	0	0	0	0	1	8	13	11	5	1	1	3	24	25	127
>24.00	11	1	0	0	0	0	0	1	8	6	0	0	0	0	3	21	51
TOTAL	206	149	57	34	23	55	90	131	220	163	127	98	85	149	259	274	2144

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-MAR 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 3/31/25

*** JAN-MAR 2025 ***

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2160

TOTAL NUMBER OF VALID OBSERVATIONS: 2144

TOTAL NUMBER OF MISSING OBSERVATIONS: 16

PERCENT DATA RECOVERY FOR THIS PERIOD: 99.3 %

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
1.49	2.33	4.20	46.50	25.05	10.96	9.47

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	3	15	2	0	0	0	0	0	3	8	0	0	0	0	0	1	0
B	8	6	5	1	1	1	0	0	8	8	0	0	0	0	2	10	0
C	14	14	2	3	0	5	1	3	6	4	3	1	0	1	11	22	0
D	108	91	35	23	5	27	51	50	64	54	59	36	33	58	143	160	0
E	35	8	8	5	16	17	30	43	52	50	33	33	24	52	68	61	2
F	25	6	3	1	0	3	3	23	51	21	17	13	14	27	19	8	1
G	13	9	2	1	1	2	5	12	36	18	15	15	14	11	16	12	21
TOTAL	206	149	57	34	23	55	90	131	220	163	127	98	85	149	259	274	24

JFDs of 10-Meter Wind vs. Delta T

April-June 2025

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - APR-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/25 - 6/30/25

*** APR-JUN 2025 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	4
3.51- 7.50	6	14	8	4	4	4	4	2	0	3	0	0	0	0	0	2	51
7.51-12.50	7	5	7	0	1	3	5	5	4	2	0	0	0	0	4	4	47
12.51-18.50	2	0	0	0	0	1	0	2	11	2	0	0	0	0	0	1	19
18.51-24.00	7	0	0	0	0	0	0	1	3	9	0	0	0	0	0	0	20
>24.00	0	0	0	0	0	0	0	1	12	11	0	0	0	0	0	0	24
TOTAL	22	20	16	6	5	8	9	11	30	27	0	0	0	0	4	7	165

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	1	5	2	0	0	0	0	0	0	0	0	0	0	0	0	8
3.51- 7.50	6	5	6	6	2	2	5	2	0	2	2	0	0	0	0	1	39
7.51-12.50	4	1	4	2	7	1	3	4	0	2	1	0	0	0	1	5	35
12.51-18.50	4	0	0	0	0	3	0	5	3	2	1	0	0	0	8	2	28
18.51-24.00	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	2	6
>24.00	0	0	0	0	0	0	0	0	9	3	0	0	0	0	0	0	12
TOTAL	15	7	15	10	9	6	8	12	13	10	4	0	0	0	9	10	128

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - APR-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/25 - 6/30/25

*** APR-JUN 2025 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	2	1	0	2	2	0	0	0	0	0	0	0	0	2	0	10
3.51- 7.50	8	8	7	3	8	5	4	0	0	2	2	0	0	1	1	2	51
7.51-12.50	7	2	2	2	4	8	9	1	1	8	0	0	1	2	3	7	57
12.51-18.50	2	0	0	0	0	0	3	6	2	3	1	0	1	1	8	6	33
18.51-24.00	0	0	0	0	0	0	0	6	3	0	0	0	0	0	1	3	13
>24.00	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
TOTAL	18	12	10	5	14	15	16	13	8	13	3	0	2	4	15	18	166

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	5	6	4	5	4	5	7	6	1	3	1	1	2	1	4	3	58
3.51- 7.50	30	17	9	15	9	16	33	18	14	10	13	7	8	9	0	12	220
7.51-12.50	18	12	11	11	14	20	42	21	11	9	5	1	4	18	20	44	261
12.51-18.50	9	2	0	0	5	3	32	10	11	7	2	4	6	19	19	25	154
18.51-24.00	2	0	0	0	0	0	7	1	10	2	0	5	5	3	5	1	41
>24.00	0	0	0	0	0	0	0	0	11	2	0	0	0	0	0	0	13
TOTAL	64	37	24	31	32	44	121	56	58	33	21	18	25	50	48	85	747

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - APR-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/25 - 6/30/25

*** APR-JUN 2025 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	22	12	11	9	4	6	3	3	11	9	4	2	7	2	11	11	127
3.51- 7.50	23	35	20	13	12	7	15	19	34	15	13	3	5	10	20	16	260
7.51-12.50	8	2	2	0	3	5	19	21	18	11	3	5	2	8	5	13	125
12.51-18.50	0	0	0	0	1	1	3	11	17	4	0	0	0	2	2	4	45
18.51-24.00	0	0	0	0	0	1	1	0	19	0	0	0	0	0	0	0	21
>24.00	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
TOTAL	53	49	33	22	20	20	41	54	101	39	20	10	14	22	38	44	582

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	7
1.01- 3.50	20	11	1	2	2	0	1	4	11	12	9	6	7	13	14	31	144
3.51- 7.50	14	2	2	2	0	1	0	2	16	12	4	0	2	3	5	2	67
7.51-12.50	0	0	0	0	0	0	0	3	3	1	0	11	0	1	0	0	19
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	34	13	3	4	2	1	1	9	30	25	13	17	9	17	19	33	237

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - APR-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/25 - 6/30/25

*** APR-JUN 2025 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	27
1.01- 3.50	6	0	1	0	1	1	1	3	12	13	10	10	6	17	18	23	122
3.51- 7.50	1	0	0	0	0	0	0	1	2	0	3	0	0	0	2	0	9
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	1	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	7	0	1	0	1	1	1	4	14	13	13	10	7	17	20	23	159

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	36
1.01- 3.50	54	33	24	20	13	14	12	16	35	37	24	19	22	33	49	68	473
3.51- 7.50	88	81	52	43	35	35	61	44	66	44	37	10	15	23	28	35	697
7.51-12.50	44	22	26	15	29	37	78	55	37	33	9	17	8	29	33	73	545
12.51-18.50	17	2	0	0	6	8	38	34	44	18	4	4	7	22	37	38	279
18.51-24.00	10	0	0	0	0	1	8	9	36	12	0	5	5	3	6	6	101
>24.00	0	0	0	0	0	0	0	1	36	16	0	0	0	0	0	0	53
TOTAL	213	138	102	78	83	95	197	159	254	160	74	55	57	110	153	220	2184

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - APR-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/25 - 6/30/25

*** APR-JUN 2025 ***

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
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: 8.3 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
7.55	5.86	7.60	34.20	26.65	10.85	7.28

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	22	20	16	6	5	8	9	11	30	27	0	0	0	0	4	7	0
B	15	7	15	10	9	6	8	12	13	10	4	0	0	0	9	10	0
C	18	12	10	5	14	15	16	13	8	13	3	0	2	4	15	18	0
D	64	37	24	31	32	44	121	56	58	33	21	18	25	50	48	85	0
E	53	49	33	22	20	20	41	54	101	39	20	10	14	22	38	44	2
F	34	13	3	4	2	1	1	9	30	25	13	17	9	17	19	33	7
G	7	0	1	0	1	1	1	4	14	13	13	10	7	17	20	23	27
TOTAL	213	138	102	78	83	95	197	159	254	160	74	55	57	110	153	220	36

JFDs of 10-Meter Wind vs. Delta T

January-June 2025

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 6/30/25

*** JAN-JUN 2025 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	4
3.51- 7.50	8	16	8	4	4	4	4	2	0	3	0	0	0	0	0	3	56
7.51-12.50	7	13	9	0	1	3	5	5	4	2	0	0	0	0	4	4	57
12.51-18.50	3	4	0	0	0	1	0	2	12	4	0	0	0	0	0	1	27
18.51-24.00	7	1	0	0	0	0	0	1	4	10	0	0	0	0	0	0	23
>24.00	0	0	0	0	0	0	0	1	13	16	0	0	0	0	0	0	30
TOTAL	25	35	18	6	5	8	9	11	33	35	0	0	0	0	4	8	197

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	1	5	2	0	0	0	0	0	0	0	0	0	0	0	0	8
3.51- 7.50	8	5	7	7	3	2	5	2	0	2	2	0	0	0	0	1	44
7.51-12.50	7	3	8	2	7	2	3	4	1	2	1	0	0	0	1	8	49
12.51-18.50	6	4	0	0	0	3	0	5	7	8	1	0	0	0	8	7	49
18.51-24.00	1	0	0	0	0	0	0	1	3	3	0	0	0	0	1	3	12
>24.00	1	0	0	0	0	0	0	0	10	3	0	0	0	0	1	1	16
TOTAL	23	13	20	11	10	7	8	12	21	18	4	0	0	0	11	20	178

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 6/30/25

*** JAN-JUN 2025 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	2	1	0	2	2	0	0	0	0	0	0	0	0	2	0	10
3.51- 7.50	9	9	7	6	8	6	4	0	0	2	2	0	0	2	1	4	60
7.51-12.50	10	9	4	2	4	11	9	1	2	9	1	0	1	2	6	16	87
12.51-18.50	10	6	0	0	0	1	4	7	5	5	3	1	1	1	9	15	68
18.51-24.00	2	0	0	0	0	0	0	8	5	1	0	0	0	0	8	4	28
>24.00	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	3
TOTAL	32	26	12	8	14	20	17	16	14	17	6	1	2	5	26	40	256

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	7	8	6	5	6	9	9	6	7	5	4	4	7	2	5	5	95
3.51- 7.50	44	40	21	24	11	29	58	27	24	24	26	20	20	26	17	29	440
7.51-12.50	45	39	28	25	15	30	59	32	40	34	34	14	16	44	83	105	643
12.51-18.50	43	29	4	0	5	3	39	33	21	16	11	10	9	30	67	74	394
18.51-24.00	23	11	0	0	0	0	7	7	13	6	5	6	6	6	17	24	131
>24.00	10	1	0	0	0	0	0	1	17	2	0	0	0	0	2	8	41
TOTAL	172	128	59	54	37	71	172	106	122	87	80	54	58	108	191	245	1744

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 6/30/25

*** JAN-JUN 2025 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	26	14	16	10	9	8	4	7	14	10	7	5	10	9	15	18	182
3.51- 7.50	36	41	23	16	17	18	28	31	45	26	26	13	19	26	43	34	442
7.51-12.50	16	2	2	1	9	9	32	35	43	31	18	25	9	31	39	29	331
12.51-18.50	10	0	0	0	1	1	5	24	25	18	2	0	0	8	6	13	113
18.51-24.00	0	0	0	0	0	1	2	0	24	3	0	0	0	0	3	0	33
>24.00	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	11	14
TOTAL	88	57	41	27	36	37	71	97	153	89	53	43	38	74	106	105	1119

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	8
1.01- 3.50	32	14	2	3	2	0	4	10	19	17	16	12	10	19	15	36	211
3.51- 7.50	26	4	4	2	0	4	0	16	41	24	10	4	7	14	11	5	172
7.51-12.50	1	1	0	0	0	0	0	6	21	4	4	14	5	11	9	0	76
12.51-18.50	0	0	0	0	0	0	0	0	0	1	0	0	1	0	2	0	4
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	59	19	6	5	2	4	4	32	81	46	30	30	23	44	38	41	472

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 6/30/25

*** JAN-JUN 2025 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	48
1.01- 3.50	16	7	3	1	2	3	5	12	36	27	24	20	16	20	28	32	252
3.51- 7.50	4	2	0	0	0	0	1	4	12	3	4	3	4	3	8	3	51
7.51-12.50	0	0	0	0	0	0	0	0	2	1	0	2	1	5	0	0	11
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	20	9	3	1	2	3	6	16	50	31	28	25	21	28	36	35	362

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	60
1.01- 3.50	82	47	34	23	21	22	22	35	76	59	51	41	43	50	65	91	762
3.51- 7.50	135	117	70	59	43	63	100	82	122	84	70	40	50	71	80	79	1265
7.51-12.50	86	67	51	30	36	55	108	83	113	83	58	55	32	93	142	162	1254
12.51-18.50	72	43	4	0	6	9	48	71	70	52	17	11	11	39	92	110	655
18.51-24.00	33	12	0	0	0	1	9	17	49	23	5	6	6	6	30	31	228
>24.00	11	1	0	0	0	0	0	2	44	22	0	0	0	0	3	21	104
TOTAL	419	287	159	112	106	150	287	290	474	323	201	153	142	259	412	494	4328

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 6/30/25

*** JAN-JUN 2025 ***

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 4344

TOTAL NUMBER OF VALID OBSERVATIONS: 4328

TOTAL NUMBER OF MISSING OBSERVATIONS: 16

PERCENT DATA RECOVERY FOR THIS PERIOD: 99.6 %

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
4.55	4.11	5.91	40.30	25.85	10.91	8.36

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	25	35	18	6	5	8	9	11	33	35	0	0	0	0	4	8	0
B	23	13	20	11	10	7	8	12	21	18	4	0	0	0	11	20	0
C	32	26	12	8	14	20	17	16	14	17	6	1	2	5	26	40	0
D	172	128	59	54	37	71	172	106	122	87	80	54	58	108	191	245	0
E	88	57	41	27	36	37	71	97	153	89	53	43	38	74	106	105	4
F	59	19	6	5	2	4	4	32	81	46	30	30	23	44	38	41	8
G	20	9	3	1	2	3	6	16	50	31	28	25	21	28	36	35	48
TOTAL	419	287	159	112	106	150	287	290	474	323	201	153	142	259	412	494	60

Stability Classes by Hour of Day

10-Meter Wind vs. Delta T

January-June 2025

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 6/30/25
STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

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
25	1	1	D	D	D	D	D	D	E	E	D	D	D	D	D	D	D	D	D	F	G	G	G	G	F	G
25	1	2	F	F	F	E	E	E	E	E	F	E	D	D	C	D	D	D	D	D	D	D	D	E	E	E
25	1	3	E	E	E	E	E	E	E	E	-	D	D	D	D	D	D	D	D	D	D	D	E	D	D	D
25	1	4	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	1	5	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E
25	1	6	E	E	E	E	E	E	E	E	D	D	D	D	C	D	D	D	D	E	E	E	E	E	F	G
25	1	7	G	G	G	F	F	G	F	F	F	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E
25	1	8	E	E	E	D	D	D	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	F	F	F
25	1	9	F	F	F	F	F	E	F	F	F	F	E	D	D	D	D	D	D	D	D	E	E	E	D	D
25	1	10	D	D	D	D	D	D	E	E	E	D	D	D	D	D	D	D	D	E	E	G	F	G	G	G
25	1	11	G	G	G	G	F	E	E	E	E	E	E	D	D	D	D	D	D	D	E	E	F	F	F	F
25	1	12	E	E	E	D	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E
25	1	13	E	E	E	E	E	E	F	F	F	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E
25	1	14	E	E	E	E	D	D	D	D	C	B	D	D	D	D	D	D	D	E	E	E	E	D	D	D
25	1	15	D	D	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	E	D	E	E	E	E
25	1	16	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	E	E	F	F	F	F	F
25	1	17	F	F	F	F	F	F	F	F	F	E	D	D	D	D	B	D	D	E	E	E	D	D	D	D
25	1	18	D	D	D	D	D	D	D	D	D	D	B	A	B	B	B	D	D	D	D	D	D	D	D	D
25	1	19	D	D	D	D	D	D	D	D	D	D	C	C	C	C	D	D	D	D	E	F	G	G	G	G
25	1	20	G	G	G	G	F	F	F	F	E	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D
25	1	21	E	E	E	E	E	E	E	E	D	D	D	B	A	A	A	B	D	D	D	D	E	D	D	D
25	1	22	D	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	D
25	1	23	D	D	D	D	D	D	D	D	D	D	C	B	B	B	C	D	D	D	E	G	F	-	-	-
25	1	24	-	-	-	-	-	-	-	-	-	D	D	C	B	C	C	D	D	D	E	E	E	E	E	E
25	1	25	F	E	F	F	F	F	F	F	E	D	D	C	C	C	D	D	D	D	D	D	D	E	E	E
25	1	26	E	E	E	F	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	F	F	E	E	E
25	1	27	F	F	E	E	E	E	E	E	E	D	D	C	D	D	D	D	D	D	D	E	E	E	E	E
25	1	28	F	G	G	G	G	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	F	F	F
25	1	29	G	F	F	F	F	F	G	G	G	E	D	D	D	D	D	D	D	E	F	G	G	G	G	G
25	1	30	G	G	G	F	E	E	F	F	E	E	D	D	D	D	D	D	D	D	F	E	E	E	E	E
25	1	31	E	G	E	E	E	D	E	E	D	D	D	C	C	B	C	C	D	E	F	G	G	G	G	G
25	2	1	G	G	F	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	F	F
25	2	2	F	F	F	F	F	G	G	G	F	E	D	D	D	D	D	E	E	F	F	G	G	G	G	F
25	2	3	G	G	G	G	G	G	G	G	G	E	D	D	B	B	D	D	D	D	D	D	D	D	D	D
25	2	4	D	D	D	D	D	D	D	D	D	C	B	A	A	A	A	C	D	D	D	D	D	D	D	D
25	2	5	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	2	6	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	E	G	G	G	G	G	G
25	2	7	F	G	F	G	G	G	G	F	E	D	D	C	C	C	C	D	D	D	E	D	D	D	D	D
25	2	8	D	D	D	D	D	D	D	D	D	D	D	C	C	D	D	C	D	D	D	E	E	E	E	D
25	2	9	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	F	F	G	G	G	G
25	2	10	G	G	G	G	G	G	G	F	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E
25	2	11	D	D	D	D	D	D	D	D	D	C	C	B	C	B	C	C	D	D	D	D	D	D	D	D
25	2	12	D	D	D	D	D	D	D	D	D	D	D	C	C	-	C	D	D	D	D	D	D	E	E	E
25	2	13	E	E	E	E	E	E	E	E	E	E	E	E	D	D	D	D	D	E	F	F	F	F	F	E
25	2	14	F	F	F	F	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E

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SITE IDENTIFIER: NPPD
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STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

HOURLY STABILITIES

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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
25	2	15	E	E	E	E	D	D	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D	D	D
25	2	16	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	-
25	2	17	E	D	D	D	D	D	-	D	D	D	C	B	C	B	C	C	D	D	D	D	D	D	D	D
25	2	18	D	D	D	D	D	D	D	D	D	C	B	B	B	B	C	D	D	D	D	D	D	D	D	D
25	2	19	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E
25	2	20	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	F	F	F	G	G	G
25	2	21	G	G	G	G	G	G	G	G	G	E	E	E	D	D	D	D	D	D	E	E	F	E	E	F
25	2	22	F	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F	F	E
25	2	23	F	F	G	F	F	F	G	G	G	E	D	D	D	D	D	D	D	E	F	G	G	F	E	F
25	2	24	F	F	E	E	F	G	G	F	E	D	D	B	D	D	D	D	D	E	F	G	F	F	F	F
25	2	25	E	E	F	F	E	F	G	G	F	E	D	D	D	C	D	D	E	E	F	F	G	G	E	F
25	2	26	F	E	E	E	E	E	D	D	D	D	D	D	C	C	C	C	D	D	E	F	F	G	G	G
25	2	27	G	F	F	E	E	E	E	E	D	D	D	C	C	C	D	D	D	D	F	G	G	F	F	F
25	2	28	F	E	E	E	E	E	E	E	D	D	D	D	D	C	D	D	D	D	E	E	E	F	E	E
25	3	1	E	E	E	E	E	E	E	D	D	A	A	A	C	C	A	B	B	D	D	E	E	E	E	E
25	3	2	E	E	E	E	E	E	E	E	D	D	D	B	C	D	D	D	D	D	E	E	F	F	F	F
25	3	3	E	E	F	F	F	E	E	E	D	D	C	D	D	D	D	D	D	D	E	E	E	E	E	E
25	3	4	E	E	D	D	D	D	E	E	D	D	D	D	D	E	E	E	D	D	D	D	D	D	D	E
25	3	5	E	E	E	E	E	E	E	D	D	D	D	D	D	E	E	E	F	F	F	F	F	F	F	F
25	3	6	F	F	F	F	G	G	F	F	F	F	G	G	F	D	D	D	D	D	E	E	E	E	E	E
25	3	7	E	D	D	E	E	E	E	E	D	A	A	C	C	D	D	D	D	D	D	D	D	D	D	D
25	3	8	D	E	E	E	E	F	E	D	D	D	D	D	D	D	D	D	D	D	E	G	G	G	G	G
25	3	9	G	G	G	G	G	G	F	F	E	D	D	D	D	D	D	D	D	D	E	G	G	F	G	G
25	3	10	F	G	G	G	G	G	G	G	F	E	D	D	D	D	D	D	D	D	E	F	E	E	E	E
25	3	11	E	F	F	F	E	E	E	D	C	A	A	A	A	A	A	B	B	D	E	F	F	F	G	G
25	3	12	G	G	G	G	G	G	G	G	E	D	D	C	B	C	D	D	D	D	F	F	F	G	G	G
25	3	13	F	G	F	G	G	G	G	G	E	D	D	D	D	D	D	D	D	D	E	G	G	G	E	E
25	3	14	E	E	E	E	E	E	E	E	D	D	D	D	E	D	D	E	D	D	E	E	E	E	E	E
25	3	15	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	3	16	E	E	E	F	E	F	E	E	D	C	C	C	D	C	D	D	D	D	F	F	F	F	F	F
25	3	17	E	E	E	E	E	F	F	E	D	D	C	B	B	A	B	C	D	D	E	F	F	F	F	F
25	3	18	F	F	G	G	G	G	G	F	E	D	D	B	B	A	C	C	B	D	E	G	G	G	E	D
25	3	19	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	D	D	D	E	E	E
25	3	20	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	C	D	E	F	E	E	F	F
25	3	21	E	E	E	E	E	E	E	D	D	D	D	D	C	C	C	D	D	D	D	E	F	G	G	G
25	3	22	G	G	G	G	G	G	G	G	E	D	D	B	B	C	C	C	C	D	E	E	E	E	E	E
25	3	23	E	E	E	E	E	D	D	D	D	D	C	B	B	B	C	C	D	D	D	E	E	E	E	E
25	3	24	E	E	E	E	G	G	F	F	E	D	D	D	D	D	D	D	D	D	E	F	E	F	F	G
25	3	25	G	G	F	F	F	F	F	E	D	B	B	C	D	D	D	D	D	D	E	G	G	G	G	G
25	3	26	F	F	G	G	G	G	G	G	E	D	D	D	D	D	B	B	D	D	E	E	F	E	E	E
25	3	27	E	E	E	E	E	E	E	E	D	D	D	D	D	D	C	D	B	C	E	E	E	E	E	E
25	3	28	E	E	E	E	E	E	E	D	D	B	A	A	A	A	A	A	B	D	D	E	E	E	E	E
25	3	29	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	F	D	D	D	D
25	3	30	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	3	31	D	D	E	E	D	E	E	D	C	B	A	A	A	A	C	C	D	D	D	F	F	F	F	F

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2025
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STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

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
25	4	1	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E
25	4	2	D	D	D	D	D	D	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	4	3	E	E	E	E	E	E	F	E	D	C	C	B	D	D	C	D	D	D	D	E	E	F	E	E
25	4	4	F	F	F	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	4	5	D	D	D	D	D	D	D	D	D	D	B	A	A	A	A	A	B	C	D	E	E	E	F	E
25	4	6	F	E	F	F	F	F	F	E	D	B	B	A	A	A	D	D	D	D	E	G	G	F	F	F
25	4	7	F	F	E	E	F	E	E	D	B	A	A	A	A	B	B	C	D	D	E	E	E	F	F	G
25	4	8	G	G	G	G	F	F	F	E	D	D	C	C	C	B	B	C	C	C	E	E	E	E	E	E
25	4	9	E	E	E	E	E	F	G	F	D	D	C	C	B	C	C	C	D	D	E	E	E	G	G	G
25	4	10	G	G	F	E	E	E	E	D	D	C	C	B	A	B	C	C	D	D	D	E	E	E	F	E
25	4	11	F	E	E	E	F	G	F	D	D	D	B	B	B	A	B	B	C	D	D	G	G	F	E	E
25	4	12	E	E	E	E	E	E	E	D	D	D	B	A	B	A	A	A	B	D	D	E	E	E	E	E
25	4	13	E	E	E	E	E	E	E	E	D	D	D	D	D	C	D	D	D	D	D	E	E	E	E	E
25	4	14	E	D	D	D	D	D	D	D	D	C	C	B	C	D	C	C	D	D	D	D	E	E	E	E
25	4	15	E	E	E	D	E	E	E	D	D	D	B	B	C	D	C	D	D	D	D	F	G	G	F	F
25	4	16	F	F	F	F	F	F	E	E	D	C	A	A	A	A	A	C	C	D	D	E	E	E	E	E
25	4	17	E	E	E	E	E	E	E	D	D	A	A	A	A	A	C	B	C	C	D	D	E	F	F	E
25	4	18	F	E	D	D	D	D	D	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D	E
25	4	19	E	E	E	E	E	D	D	D	B	A	C	C	D	A	A	A	B	B	E	E	E	F	E	E
25	4	20	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	4	21	D	D	D	D	E	F	E	D	D	D	D	C	D	A	A	A	A	A	D	E	E	E	E	E
25	4	22	E	E	E	F	F	F	E	D	D	D	D	D	D	D	D	C	B	D	E	E	E	E	F	F
25	4	23	F	G	E	E	E	F	F	E	D	B	D	D	D	D	D	E	F	E	F	F	F	E	E	
25	4	24	F	F	F	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	F	E	E
25	4	25	D	D	D	D	D	D	D	D	D	D	D	D	D	C	C	D	D	D	D	D	D	E	E	E
25	4	26	E	E	E	E	E	E	E	D	D	C	C	D	D	D	D	D	D	D	D	D	D	D	D	E
25	4	27	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	4	28	E	D	D	E	D	D	E	D	E	D	D	B	A	B	A	A	A	D	D	E	D	E	E	E
25	4	29	D	D	D	D	D	D	D	D	D	C	A	A	A	D	B	B	D	C	B	E	F	G	G	G
25	4	30	F	E	F	F	E	E	E	D	D	D	C	C	C	D	D	D	D	D	D	D	D	D	D	D
25	5	1	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	G	G	G
25	5	2	G	G	F	F	E	D	E	D	D	B	C	D	D	D	D	D	D	E	E	F	F	F	E	F
25	5	3	G	F	F	F	F	F	E	D	D	D	D	A	A	A	A	A	A	D	D	E	G	G	G	G
25	5	4	G	G	G	G	G	G	G	E	D	C	B	B	B	C	C	D	B	C	B	E	F	E	E	F
25	5	5	G	G	G	G	G	G	G	E	D	B	B	A	A	A	A	B	C	C	C	F	F	F	E	E
25	5	6	E	E	E	E	E	E	E	D	D	C	B	B	D	C	C	D	D	D	E	E	E	E	E	F
25	5	7	F	F	E	E	F	F	E	E	D	C	C	C	C	B	D	D	D	C	D	D	D	E	E	E
25	5	8	F	F	F	G	F	F	E	D	D	D	A	A	A	A	A	B	B	C	E	E	F	E	E	F
25	5	9	F	G	G	G	G	G	F	D	D	D	C	A	A	A	A	B	B	D	B	F	G	G	G	G
25	5	10	G	G	G	G	G	G	G	E	D	D	C	C	C	B	B	D	D	D	D	E	F	G	G	G
25	5	11	G	G	G	G	G	G	G	E	D	D	D	C	C	C	C	D	D	D	D	E	F	G	F	F
25	5	12	G	G	G	G	G	G	F	E	D	D	D	D	D	D	D	D	D	D	C	E	G	G	G	G
25	5	13	G	G	G	G	G	G	F	E	D	D	D	D	D	C	D	D	D	D	B	E	E	F	F	F
25	5	14	E	E	F	F	E	E	E	D	D	C	B	B	C	C	C	D	D	D	D	D	D	D	D	D
25	5	15	D	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	C	D	E	F	F	E

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			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
25	5	16	F	D	E	E	E	E	E	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	D
25	5	17	E	D	D	D	D	D	D	D	C	B	B	A	A	B	B	C	D	D	E	E	F	F	F	F
25	5	18	E	E	E	E	E	E	D	D	C	B	A	A	A	A	A	B	D	D	D	D	E	E	E	E
25	5	19	D	D	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
25	5	20	E	D	D	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
25	5	21	E	E	E	E	E	E	D	D	D	C	B	B	C	C	C	C	C	D	D	E	E	F	E	E
25	5	22	E	F	F	F	E	E	D	C	A	B	A	A	A	A	A	A	D	D	D	E	F	F	F	G
25	5	23	G	G	G	G	G	F	F	E	D	D	D	D	D	C	D	E	D	D	E	E	E	E	E	E
25	5	24	E	D	D	E	D	E	D	D	D	D	B	B	A	B	B	B	B	D	D	E	D	D	D	D
25	5	25	D	D	E	D	D	D	D	E	D	D	D	C	D	D	D	D	D	D	D	D	E	E	E	E
25	5	26	E	E	E	E	E	E	D	D	D	D	D	D	D	E	D	D	D	E	E	E	E	E	E	E
25	5	27	E	D	E	E	E	E	E	D	D	D	C	D	D	C	D	D	D	E	D	E	E	E	E	E
25	5	28	E	F	F	F	F	F	D	B	C	A	A	C	C	D	C	C	D	D	E	F	E	E	E	E
25	5	29	E	E	E	E	E	E	D	D	C	C	C	C	B	C	C	D	D	D	E	D	E	F	F	F
25	5	30	F	F	E	E	E	F	F	D	D	C	A	C	A	A	C	D	D	D	E	G	G	G	G	G
25	5	31	F	F	F	E	E	E	E	D	D	D	C	A	A	A	A	D	C	D	F	D	E	E	G	G
25	6	1	F	G	G	G	G	F	E	D	A	B	A	A	A	A	A	C	D	D	E	F	G	F	F	F
25	6	2	F	G	G	G	G	F	F	D	D	C	A	A	A	A	A	A	A	A	D	E	E	E	E	E
25	6	3	D	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	C	D	E	E	E	E
25	6	4	F	F	F	F	F	G	F	C	D	C	A	B	A	A	B	A	D	D	E	E	E	E	F	G
25	6	5	G	G	G	G	F	G	E	D	D	C	C	C	C	C	D	D	D	D	D	E	E	E	E	E
25	6	6	E	E	E	E	E	E	D	D	D	D	B	A	A	A	A	A	C	B	D	F	G	G	G	F
25	6	7	G	F	F	F	F	F	E	E	E	E	D	C	A	D	B	D	D	D	D	E	F	F	F	F
25	6	8	F	F	F	F	F	E	E	D	D	D	B	D	D	E	E	D	D	D	D	E	E	E	E	F
25	6	9	F	F	F	F	F	E	E	D	D	B	B	C	C	B	C	B	B	D	E	E	F	F	F	G
25	6	10	G	G	G	G	G	G	F	E	D	D	C	A	C	C	B	C	C	D	E	F	G	G	G	G
25	6	11	F	G	G	G	G	F	E	D	D	D	B	A	B	C	B	B	C	C	D	E	F	E	E	F
25	6	12	G	G	F	F	F	G	F	D	D	D	B	A	A	A	A	A	A	C	D	D	F	G	F	G
25	6	13	G	G	G	F	F	E	E	D	D	B	A	B	A	A	A	A	B	C	D	E	F	F	F	F
25	6	14	E	E	E	F	E	F	E	D	D	B	A	A	A	A	A	A	C	D	C	D	E	F	F	F
25	6	15	G	F	F	F	F	F	E	D	C	C	A	A	A	A	A	A	B	C	C	D	E	E	E	E
25	6	16	E	E	F	E	E	E	E	D	D	C	B	A	A	A	A	A	A	B	B	E	F	E	E	D
25	6	17	E	E	D	D	F	E	E	E	D	D	B	A	D	D	B	D	D	D	E	E	E	E	F	F
25	6	18	E	E	E	F	E	E	D	D	D	C	D	D	D	A	B	C	A	D	D	E	F	F	F	F
25	6	19	G	G	G	G	G	F	E	D	D	C	B	B	A	A	A	A	B	B	B	E	E	E	E	E
25	6	20	E	E	E	E	E	E	D	D	D	C	A	A	A	A	A	A	B	B	D	D	E	E	E	E
25	6	21	E	E	E	E	E	E	D	D	D	B	A	B	B	A	B	C	D	D	D	E	E	E	E	E
25	6	22	E	E	E	E	E	E	D	D	C	A	A	B	A	A	A	B	B	D	D	D	E	E	E	E
25	6	23	E	E	E	E	E	E	D	D	D	C	B	C	C	C	E	E	E	E	E	D	E	E	E	D
25	6	24	E	D	E	E	E	E	D	D	D	D	D	D	D	D	E	E	D	D	D	D	D	D	E	E
25	6	25	D	D	E	E	E	D	E	D	D	D	D	C	D	C	D	D	D	D	D	E	F	E	F	E
25	6	26	E	E	E	E	E	E	D	D	D	D	D	D	E	E	D	E	E	E	E	E	E	E	E	E
25	6	27	F	F	F	F	F	E	E	C	C	B	B	A	B	B	C	C	C	C	C	D	E	F	E	E
25	6	28	E	E	E	E	E	E	D	D	D	D	B	A	B	B	B	C	D	C	B	D	E	E	E	E
25	6	29	E	E	E	D	D	E	D	E	E	E	E	D	D	B	D	D	D	A	D	E	G	G	G	G

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-JUN 2025
SITE IDENTIFIER: PPD
DATA PERIOD EXAMINED: 1/ 1/25 - 6/30/25
STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

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
25	6	30	F	F	F	F	F	F	E	D	E	E	D	D	D	D	D	D	D	D	D	E	F	G	G	G

JFDs of 10-Meter Wind vs. Delta T

July-September 2025

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-SEP 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 9/30/25

*** JUL-SEP 2025 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	3	4	1	0	0	0	0	0	0	0	0	0	0	0	0	8
3.51- 7.50	13	14	6	5	9	3	3	0	0	0	0	0	0	1	0	0	54
7.51-12.50	4	2	0	0	0	1	2	0	0	1	0	0	0	0	0	0	10
12.51-18.50	1	0	0	0	0	0	0	0	1	2	0	0	0	0	0	2	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	18	19	10	6	9	4	5	0	1	3	0	0	0	1	0	2	78

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	1	2	2	3	0	0	0	0	0	0	0	0	0	0	0	9
3.51- 7.50	7	6	3	0	11	0	3	2	0	0	0	0	0	0	0	0	32
7.51-12.50	6	2	0	0	0	4	2	2	12	2	0	0	0	0	1	1	32
12.51-18.50	0	0	0	0	0	0	0	2	7	2	0	0	0	0	0	0	11
18.51-24.00	0	0	0	0	0	0	0	0	1	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	14	9	5	2	14	4	5	6	20	4	0	0	0	0	1	1	85

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-SEP 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 9/30/25

*** JUL-SEP 2025 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	1	3	2	1	1	0	0	0	0	0	0	0	0	0	0	9
3.51- 7.50	1	5	1	5	5	9	4	6	1	2	1	0	0	1	2	1	44
7.51-12.50	3	0	0	2	1	2	7	7	19	2	0	0	0	0	2	3	48
12.51-18.50	0	1	0	0	0	0	2	0	10	1	0	0	0	0	1	0	15
18.51-24.00	0	0	0	0	0	0	0	0	1	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	5	7	4	9	7	12	13	13	31	5	1	0	0	1	5	4	117

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	13	8	6	6	13	14	6	2	6	3	4	3	5	2	4	6	101
3.51- 7.50	13	10	3	14	16	42	55	40	23	14	9	11	7	7	17	13	294
7.51-12.50	15	3	4	2	2	14	34	51	48	29	5	5	5	5	6	10	238
12.51-18.50	4	0	0	0	0	1	3	17	47	4	0	1	0	0	0	2	79
18.51-24.00	1	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	6
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	46	21	13	22	31	71	98	110	129	50	18	20	17	14	27	31	718

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-SEP 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 9/30/25

*** JUL-SEP 2025 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	8
1.01- 3.50	30	25	15	10	8	12	8	24	31	21	7	1	3	9	16	24	244
3.51- 7.50	16	9	8	9	3	10	25	37	85	24	9	3	6	3	9	12	268
7.51-12.50	12	1	0	0	1	1	10	23	19	7	3	1	3	1	1	4	87
12.51-18.50	0	0	0	0	0	0	0	7	4	1	0	2	0	1	0	0	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	58	35	23	19	12	23	43	91	139	53	19	7	12	14	26	40	622

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	24
1.01- 3.50	20	6	2	1	1	0	3	9	30	33	14	18	16	20	32	37	242
3.51- 7.50	14	2	0	1	0	1	1	8	33	19	3	5	3	1	3	9	103
7.51-12.50	0	0	0	0	0	0	1	1	2	4	0	1	1	2	5	0	17
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	34	8	2	2	1	1	5	18	65	56	17	24	21	23	40	46	387

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-SEP 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 9/30/25

*** JUL-SEP 2025 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	38
1.01- 3.50	6	2	0	0	1	3	0	3	11	11	11	8	17	24	33	27	157
3.51- 7.50	1	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	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	7	2	0	0	1	3	0	3	11	12	12	9	17	24	33	28	200

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	70
1.01- 3.50	71	46	32	22	27	30	17	38	78	68	36	30	41	55	85	94	770
3.51- 7.50	65	46	21	34	44	65	91	93	142	60	23	20	16	13	31	36	800
7.51-12.50	40	8	4	4	4	22	56	84	100	45	8	7	9	8	15	18	432
12.51-18.50	5	1	0	0	0	1	5	26	69	10	0	3	1	1	1	4	127
18.51-24.00	1	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	8
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	182	101	57	60	75	118	169	241	396	183	67	60	67	77	132	152	2207

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-SEP 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 9/30/25

*** JUL-SEP 2025 ***

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2208

TOTAL NUMBER OF VALID OBSERVATIONS: 2207

TOTAL NUMBER OF MISSING OBSERVATIONS: 1

PERCENT DATA RECOVERY FOR THIS PERIOD: 99.9 %

MEAN WIND SPEED FOR THIS PERIOD: 5.5 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
3.53	3.85	5.30	32.53	28.18	17.54	9.06

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	18	19	10	6	9	4	5	0	1	3	0	0	0	1	0	2	0
B	14	9	5	2	14	4	5	6	20	4	0	0	0	0	1	1	0
C	5	7	4	9	7	12	13	13	31	5	1	0	0	1	5	4	0
D	46	21	13	22	31	71	98	110	129	50	18	20	17	14	27	31	0
E	58	35	23	19	12	23	43	91	139	53	19	7	12	14	26	40	8
F	34	8	2	2	1	1	5	18	65	56	17	24	21	23	40	46	24
G	7	2	0	0	1	3	0	3	11	12	12	9	17	24	33	28	38
TOTAL	182	101	57	60	75	118	169	241	396	183	67	60	67	77	132	152	70

JFDs of 10-Meter Wind vs. Delta T

October-December 2025

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - OCT-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/25 - 12/31/25

*** OCT-DEC 2025 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	2	8	0	0	0	0	0	0	1	0	0	0	0	0	0	0	11
12.51-18.50	3	1	0	0	0	0	0	0	4	0	0	0	0	0	0	0	8
18.51-24.00	0	0	0	0	0	0	0	0	7	1	0	0	0	0	0	0	8
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	5	9	0	0	0	0	0	0	12	1	0	0	0	0	0	0	27

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	1	0	0	0	0	1
3.51- 7.50	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
7.51-12.50	2	5	0	0	0	0	0	1	4	0	0	0	0	0	0	1	13
12.51-18.50	1	1	0	0	0	0	0	1	3	1	0	0	0	0	0	1	8
18.51-24.00	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	1	5
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	5	6	0	0	0	0	0	3	10	1	0	1	0	0	0	3	29

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - OCT-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/25 - 12/31/25

*** OCT-DEC 2025 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	1	0	0	0	1	0	0	0	0	0	0	1	1	1	0	0	5
7.51-12.50	1	2	0	0	0	0	0	1	1	0	1	0	0	1	0	2	9
12.51-18.50	1	0	0	0	0	0	0	3	4	0	0	0	0	2	3	4	17
18.51-24.00	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
TOTAL	3	2	0	0	1	0	0	4	10	0	1	1	1	4	3	6	36

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	4	3	5	7	9	4	1	3	1	2	4	3	4	0	1	2	53
3.51- 7.50	28	13	7	8	24	28	27	12	8	3	16	5	6	11	6	5	207
7.51-12.50	39	24	6	0	8	40	32	14	21	8	15	13	4	20	11	31	286
12.51-18.50	18	8	0	0	0	11	8	13	27	7	2	0	0	7	33	50	184
18.51-24.00	2	0	0	0	0	0	0	1	7	0	0	0	1	4	19	15	49
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	6	15
TOTAL	91	48	18	15	41	83	68	43	64	20	37	21	15	42	79	109	796

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - OCT-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/25 - 12/31/25

*** OCT-DEC 2025 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	21	13	8	6	5	5	14	7	7	10	4	5	3	3	6	9	126
3.51- 7.50	28	19	7	8	12	13	18	28	21	12	2	8	4	17	20	12	229
7.51-12.50	24	7	2	0	1	10	37	27	60	13	10	10	4	15	28	15	263
12.51-18.50	9	0	0	0	0	1	1	9	19	6	2	1	0	2	13	8	71
18.51-24.00	0	0	0	0	0	0	0	0	3	2	0	0	0	0	15	2	22
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4
TOTAL	82	39	17	14	18	29	70	71	110	43	18	24	11	37	86	46	719

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	15	8	1	7	1	0	6	12	21	8	7	6	8	6	14	6	126
3.51- 7.50	6	7	0	0	0	5	2	14	36	4	3	3	5	7	8	4	104
7.51-12.50	0	0	0	0	0	1	2	2	15	3	2	2	2	6	1	0	36
12.51-18.50	0	0	0	0	0	0	0	0	3	0	0	1	0	0	2	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	21	15	1	7	1	6	10	28	75	15	12	12	15	19	25	10	288

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - OCT-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/25 - 12/31/25

*** OCT-DEC 2025 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	30
1.01- 3.50	22	6	2	3	3	2	8	25	31	12	12	6	13	8	19	21	193
3.51- 7.50	2	1	0	0	0	0	1	4	7	2	0	1	2	4	1	1	26
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	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	24	7	2	3	3	2	9	29	38	14	12	7	15	16	21	22	254

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	52
1.01- 3.50	62	30	16	23	18	11	29	47	60	32	27	21	28	17	40	38	499
3.51- 7.50	67	40	14	16	37	46	48	58	72	21	21	18	18	40	35	22	573
7.51-12.50	68	46	8	0	9	51	71	45	102	24	28	25	10	46	41	49	623
12.51-18.50	32	10	0	0	0	12	9	26	60	14	4	2	0	11	51	63	294
18.51-24.00	2	0	0	0	0	0	0	2	24	3	0	0	1	4	34	18	88
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	13	6	20
TOTAL	231	126	38	39	64	120	157	178	319	94	80	66	57	118	214	196	2149

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - OCT-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/25 - 12/31/25

*** OCT-DEC 2025 ***

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2208

TOTAL NUMBER OF VALID OBSERVATIONS: 2149

TOTAL NUMBER OF MISSING OBSERVATIONS: 59

PERCENT DATA RECOVERY FOR THIS PERIOD: 97.3 %

MEAN WIND SPEED FOR THIS PERIOD: 8.0 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
1.26	1.35	1.68	37.04	33.46	13.40	11.82

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	5	9	0	0	0	0	0	0	12	1	0	0	0	0	0	0	0
B	5	6	0	0	0	0	0	3	10	1	0	1	0	0	0	3	0
C	3	2	0	0	1	0	0	4	10	0	1	1	1	4	3	6	0
D	91	48	18	15	41	83	68	43	64	20	37	21	15	42	79	109	2
E	82	39	17	14	18	29	70	71	110	43	18	24	11	37	86	46	4
F	21	15	1	7	1	6	10	28	75	15	12	12	15	19	25	10	16
G	24	7	2	3	3	2	9	29	38	14	12	7	15	16	21	22	30
TOTAL	231	126	38	39	64	120	157	178	319	94	80	66	57	118	214	196	52

JFDs of 10-Meter Wind vs. Delta T

July-December 2025

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25

*** JUL-DEC 2025 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	3	4	1	0	0	0	0	0	0	0	0	0	0	0	0	8
3.51- 7.50	13	14	6	5	9	3	3	0	0	0	0	0	0	1	0	0	54
7.51-12.50	6	10	0	0	0	1	2	0	1	1	0	0	0	0	0	0	21
12.51-18.50	4	1	0	0	0	0	0	0	5	2	0	0	0	0	0	2	14
18.51-24.00	0	0	0	0	0	0	0	0	7	1	0	0	0	0	0	0	8
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	23	28	10	6	9	4	5	0	13	4	0	0	0	1	0	2	105

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	1	2	2	3	0	0	0	0	0	0	1	0	0	0	0	10
3.51- 7.50	9	6	3	0	11	0	3	2	0	0	0	0	0	0	0	0	34
7.51-12.50	8	7	0	0	0	4	2	3	16	2	0	0	0	0	1	2	45
12.51-18.50	1	1	0	0	0	0	0	3	10	3	0	0	0	0	0	1	19
18.51-24.00	0	0	0	0	0	0	0	1	4	0	0	0	0	0	0	1	6
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	19	15	5	2	14	4	5	9	30	5	0	1	0	0	1	4	114

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25

*** JUL-DEC 2025 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	1	3	2	1	1	0	0	0	0	0	0	0	0	0	0	9
3.51- 7.50	2	5	1	5	6	9	4	6	1	2	1	1	1	2	2	1	49
7.51-12.50	4	2	0	2	1	2	7	8	20	2	1	0	0	1	2	5	57
12.51-18.50	1	1	0	0	0	0	2	3	14	1	0	0	0	2	4	4	32
18.51-24.00	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
TOTAL	8	9	4	9	8	12	13	17	41	5	2	1	1	5	8	10	153

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	17	11	11	13	22	18	7	5	7	5	8	6	9	2	5	8	154
3.51- 7.50	41	23	10	22	40	70	82	52	31	17	25	16	13	18	23	18	501
7.51-12.50	54	27	10	2	10	54	66	65	69	37	20	18	9	25	17	41	524
12.51-18.50	22	8	0	0	0	12	11	30	74	11	2	1	0	7	33	52	263
18.51-24.00	3	0	0	0	0	0	0	1	12	0	0	0	1	4	19	15	55
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	6	15
TOTAL	137	69	31	37	72	154	166	153	193	70	55	41	32	56	106	140	1514

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25

*** JUL-DEC 2025 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	12
1.01- 3.50	51	38	23	16	13	17	22	31	38	31	11	6	6	12	22	33	370
3.51- 7.50	44	28	15	17	15	23	43	65	106	36	11	11	10	20	29	24	497
7.51-12.50	36	8	2	0	2	11	47	50	79	20	13	11	7	16	29	19	350
12.51-18.50	9	0	0	0	0	1	1	16	23	7	2	3	0	3	13	8	86
18.51-24.00	0	0	0	0	0	0	0	0	3	2	0	0	0	0	15	2	22
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	4
TOTAL	140	74	40	33	30	52	113	162	249	96	37	31	23	51	112	86	1341

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	40
1.01- 3.50	35	14	3	8	2	0	9	21	51	41	21	24	24	26	46	43	368
3.51- 7.50	20	9	0	1	0	6	3	22	69	23	6	8	8	8	11	13	207
7.51-12.50	0	0	0	0	0	1	3	3	17	7	2	3	3	8	6	0	53
12.51-18.50	0	0	0	0	0	0	0	0	3	0	0	1	1	0	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	55	23	3	9	2	7	15	46	140	71	29	36	36	42	65	56	675

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25

*** JUL-DEC 2025 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	68
1.01- 3.50	28	8	2	3	4	5	8	28	42	23	23	14	30	32	52	48	350
3.51- 7.50	3	1	0	0	0	0	1	4	7	3	1	2	2	4	1	2	31
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	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	31	9	2	3	4	5	9	32	49	26	24	16	32	40	54	50	454

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	122
1.01- 3.50	133	76	48	45	45	41	46	85	138	100	63	51	69	72	125	132	1269
3.51- 7.50	132	86	35	50	81	111	139	151	214	81	44	38	34	53	66	58	1373
7.51-12.50	108	54	12	4	13	73	127	129	202	69	36	32	19	54	56	67	1055
12.51-18.50	37	11	0	0	0	13	14	52	129	24	4	5	1	12	52	67	421
18.51-24.00	3	0	0	0	0	0	0	2	31	3	0	0	1	4	34	18	96
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	13	6	20
TOTAL	413	227	95	99	139	238	326	419	715	277	147	126	124	195	346	348	4356

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25

*** JUL-DEC 2025 ***

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 4416

TOTAL NUMBER OF VALID OBSERVATIONS: 4356

TOTAL NUMBER OF MISSING OBSERVATIONS: 60

PERCENT DATA RECOVERY FOR THIS PERIOD: 98.6 %

MEAN WIND SPEED FOR THIS PERIOD: 6.8 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
2.41	2.62	3.51	34.76	30.79	15.50	10.42

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	23	28	10	6	9	4	5	0	13	4	0	0	0	1	0	2	0
B	19	15	5	2	14	4	5	9	30	5	0	1	0	0	1	4	0
C	8	9	4	9	8	12	13	17	41	5	2	1	1	5	8	10	0
D	137	69	31	37	72	154	166	153	193	70	55	41	32	56	106	140	2
E	140	74	40	33	30	52	113	162	249	96	37	31	23	51	112	86	12
F	55	23	3	9	2	7	15	46	140	71	29	36	36	42	65	56	40
G	31	9	2	3	4	5	9	32	49	26	24	16	32	40	54	50	68
TOTAL	413	227	95	99	139	238	326	419	715	277	147	126	124	195	346	348	122

Stability Classes by Hour of Day

10-Meter Wind vs. Delta T

July-December 2025

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25
STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

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
25	7	1	G	F	G	G	G	F	E	D	D	C	A	A	A	A	A	D	D	D	E	E	F	G	G	G
25	7	2	G	G	G	G	F	F	F	E	D	D	D	D	D	D	C	D	D	D	D	E	E	E	E	E
25	7	3	F	E	F	F	F	E	E	D	D	D	C	B	B	C	D	D	D	D	D	E	F	F	E	E
25	7	4	E	E	E	E	E	E	E	D	D	D	B	C	B	C	D	D	D	D	D	E	E	E	E	E
25	7	5	E	E	E	E	E	E	E	D	D	D	D	C	D	D	D	D	D	D	D	E	E	F	F	F
25	7	6	E	E	E	E	E	E	D	B	A	B	A	A	A	A	A	B	C	B	D	E	G	G	F	F
25	7	7	F	F	F	F	F	F	E	C	C	A	A	A	A	A	B	D	C	D	D	E	F	F	F	D
25	7	8	E	E	E	D	E	E	D	C	B	D	C	C	A	A	A	A	B	B	A	E	F	G	G	G
25	7	9	G	G	G	G	G	F	F	F	D	D	C	B	C	B	B	C	D	D	C	D	E	E	E	E
25	7	10	E	E	E	F	E	F	F	E	D	D	D	D	D	D	A	C	D	D	D	E	E	E	E	E
25	7	11	E	E	E	E	E	E	E	D	D	D	D	D	B	C	C	A	A	C	D	D	E	E	F	F
25	7	12	E	F	E	E	E	D	D	D	B	B	A	A	A	A	A	C	B	D	E	F	E	F	F	F
25	7	13	G	G	G	F	G	G	F	E	D	C	A	A	A	A	C	C	A	A	B	F	F	F	G	F
25	7	14	G	G	G	G	G	G	F	E	D	D	C	B	C	B	B	C	C	D	C	D	F	F	G	G
25	7	15	F	F	F	F	F	F	E	D	D	D	B	A	B	B	C	C	D	D	A	D	E	E	E	E
25	7	16	E	D	E	E	E	E	D	E	D	D	D	B	D	C	A	C	C	D	D	D	D	E	E	E
25	7	17	E	E	E	E	E	D	D	D	D	A	A	B	C	C	C	D	D	D	D	D	D	E	D	D
25	7	18	E	E	D	D	D	D	D	D	D	C	B	D	D	D	D	D	D	D	D	D	E	E	E	E
25	7	19	E	E	F	E	E	E	E	D	C	A	A	A	A	C	C	C	B	B	D	D	E	E	E	E
25	7	20	D	D	F	F	F	G	F	E	D	D	D	D	D	D	B	C	D	D	C	D	E	E	E	E
25	7	21	E	E	D	D	E	D	D	D	D	D	D	E	D	D	D	D	D	E	E	E	E	E	E	D
25	7	22	E	D	E	E	E	E	D	D	D	D	C	D	D	D	C	D	C	C	B	D	E	E	E	E
25	7	23	E	E	E	E	E	E	E	D	D	D	C	B	B	C	D	D	D	D	B	E	E	E	E	E
25	7	24	D	D	D	E	D	D	D	D	E	E	E	D	D	D	D	D	D	C	A	D	E	E	E	E
25	7	25	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	D	D	E	E	E	E	E
25	7	26	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	A	E	E	E	F	F
25	7	27	F	F	F	E	F	E	E	E	D	D	D	C	C	C	C	D	D	D	D	E	E	E	E	E
25	7	28	E	E	E	E	D	D	D	D	D	D	B	B	C	B	C	D	D	D	B	E	E	E	E	E
25	7	29	F	E	F	E	F	E	E	E	D	D	C	B	B	B	D	D	D	D	D	E	E	E	E	E
25	7	30	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
25	7	31	E	E	E	E	E	E	D	D	D	D	D	C	D	C	C	C	C	D	D	E	E	E	E	E
25	8	1	E	E	E	E	E	F	E	D	D	B	A	A	B	A	B	B	D	D	D	E	E	E	E	E
25	8	2	E	F	F	F	F	E	E	D	D	D	D	C	D	D	D	D	D	D	C	E	E	F	F	F
25	8	3	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	E	E
25	8	4	E	E	F	E	E	F	E	E	D	D	C	A	B	D	D	D	B	D	D	E	E	E	F	E
25	8	5	E	E	F	F	F	E	E	D	D	D	D	C	C	B	C	C	D	D	D	E	E	E	E	E
25	8	6	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	F	E	E	E
25	8	7	E	E	E	E	F	F	E	E	D	D	D	C	C	D	D	D	D	D	E	E	E	E	E	E
25	8	8	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	F	F	E	E	E	E	E	E
25	8	9	E	E	E	E	F	E	E	E	E	D	D	D	D	D	D	C	C	D	C	E	E	E	E	E
25	8	10	E	E	E	D	E	E	E	D	D	D	D	D	D	D	A	B	D	D	E	G	G	G	G	G
25	8	11	F	F	F	F	G	F	E	E	D	E	D	D	D	D	D	D	D	D	D	E	E	E	F	F
25	8	12	F	E	E	E	E	E	E	D	D	D	B	D	D	D	D	D	B	C	E	G	G	G	G	G
25	8	13	G	F	F	F	F	F	F	E	E	D	D	C	D	D	D	D	D	D	D	F	F	F	E	E

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25
STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

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
25	8	14	E	E	E	F	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	8	15	E	E	E	E	F	F	E	E	D	D	D	D	D	D	D	D	D	D	D	F	F	E	E	E
25	8	16	F	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	D	D	F	F	F	E	E
25	8	17	E	E	E	E	F	F	F	E	E	D	D	D	D	D	D	D	D	D	D	F	F	F	F	E
25	8	18	E	E	E	E	E	E	E	F	E	E	E	D	D	D	D	D	D	D	E	G	G	G	G	F
25	8	19	G	F	F	F	E	E	E	D	C	C	B	B	A	A	A	B	D	D	E	F	F	F	F	F
25	8	20	F	F	F	F	F	F	F	D	B	A	C	B	A	A	A	A	D	E	E	F	G	F	E	F
25	8	21	F	F	F	F	E	E	E	D	D	D	C	C	A	A	B	B	B	C	C	E	F	F	E	E
25	8	22	E	E	E	E	F	F	E	E	D	D	D	D	C	C	C	D	D	E	F	F	F	F	F	E
25	8	23	E	E	E	F	E	E	E	D	D	C	A	A	A	A	C	C	D	D	E	F	F	F	F	G
25	8	24	F	G	G	G	F	F	E	E	D	D	D	D	D	D	D	D	D	D	E	G	G	F	F	F
25	8	25	F	F	F	F	G	G	F	E	D	A	A	A	A	A	A	A	D	D	E	G	G	G	G	G
25	8	26	G	G	G	G	G	G	F	E	E	D	D	D	D	D	D	C	C	D	D	E	F	F	F	F
25	8	27	F	F	F	F	F	F	F	E	E	D	D	C	D	D	D	D	D	E	E	E	E	E	F	F
25	8	28	F	F	F	F	E	E	E	D	D	D	D	B	D	D	D	D	D	E	F	G	G	G	F	G
25	8	29	G	G	G	F	F	F	F	E	E	D	D	D	D	D	D	D	D	E	E	F	F	F	G	G
25	8	30	G	G	G	G	F	F	F	E	D	D	D	D	D	D	D	E	E	E	E	E	F	F	F	F
25	8	31	E	F	F	E	E	F	F	E	E	D	D	E	E	D	D	E	D	D	D	D	D	D	D	D
25	9	1	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
25	9	2	E	E	E	E	E	E	E	D	D	D	D	D	C	D	D	D	D	D	E	F	F	G	F	F
25	9	3	F	F	F	E	F	F	E	D	D	D	D	D	B	B	D	D	D	D	E	E	E	E	E	F
25	9	4	F	F	F	F	F	F	F	E	E	D	D	C	C	B	D	D	D	E	E	F	E	E	F	F
25	9	5	F	F	F	F	F	E	E	E	D	D	D	D	D	C	D	D	D	E	F	G	G	G	G	G
25	9	6	F	G	F	F	F	F	F	E	D	B	A	B	B	D	D	D	D	D	F	G	G	G	G	G
25	9	7	G	G	G	G	G	F	E	E	D	D	D	D	D	D	D	D	D	D	F	F	G	G	G	G
25	9	8	G	F	F	F	E	F	E	E	E	D	C	C	B	C	D	D	D	E	E	F	F	F	F	E
25	9	9	F	E	E	E	E	-	E	E	D	D	B	C	C	D	D	D	D	D	D	E	E	E	E	F
25	9	10	F	F	F	F	F	F	F	E	D	D	D	D	D	D	D	D	D	E	F	G	G	G	G	G
25	9	11	G	F	F	E	F	F	E	E	E	D	D	D	D	D	D	D	D	E	F	F	F	F	F	F
25	9	12	F	F	F	F	F	F	E	E	D	D	C	B	D	E	D	D	D	F	F	F	F	F	F	F
25	9	13	F	G	G	F	F	F	G	F	E	D	D	B	D	B	A	D	E	F	F	F	F	F	E	E
25	9	14	E	F	F	F	F	F	G	F	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
25	9	15	E	E	E	F	F	F	F	E	E	D	D	D	C	A	A	F	F	F	F	F	F	F	G	G
25	9	16	G	G	G	F	G	F	F	F	E	D	D	D	D	D	D	D	D	F	F	G	G	G	G	F
25	9	17	F	F	F	F	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	F	F	F	G
25	9	18	F	F	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	F	E
25	9	19	F	F	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	F	E	E	F	F	E
25	9	20	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	A	D	E	E	F	G	F	F	F
25	9	21	F	G	F	G	G	F	E	E	E	E	D	E	E	D	D	D	D	D	E	E	F	F	F	F
25	9	22	F	F	F	F	F	E	F	E	D	D	D	D	D	C	C	D	C	F	F	F	E	E	F	F
25	9	23	F	F	D	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	F	E
25	9	24	F	E	E	E	E	E	E	D	D	B	B	B	B	C	D	D	E	E	F	G	G	G	G	G
25	9	25	G	G	G	G	G	G	G	F	E	D	D	B	B	B	B	B	D	F	G	G	G	G	G	G
25	9	26	G	G	G	G	G	G	G	F	E	D	D	D	D	D	D	D	D	E	F	F	F	F	F	G
25	9	27	G	G	G	G	G	G	G	F	D	D	D	D	C	C	A	C	D	E	F	F	F	G	F	G

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25
STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

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
25	9	28	G	F	F	F	G	G	G	G	D	C	D	B	C	D	D	D	D	G	G	G	G	G	G	G
25	9	29	G	G	G	G	G	G	F	F	E	D	C	D	B	D	D	D	E	F	G	G	G	G	G	G
25	9	30	G	G	F	F	G	G	G	E	E	D	D	D	D	C	B	D	D	E	F	F	F	G	G	G
25	10	1	G	G	G	F	F	G	G	G	F	D	D	D	B	B	D	D	C	E	G	G	G	G	G	G
25	10	2	G	F	G	G	G	F	F	F	E	D	B	D	C	D	D	D	D	E	F	F	F	F	F	G
25	10	3	G	G	G	G	F	F	F	F	E	D	B	B	A	A	A	B	D	E	F	F	F	F	F	F
25	10	4	F	E	E	F	E	E	E	E	D	B	A	A	A	A	A	C	C	D	E	E	E	E	E	F
25	10	5	E	E	E	E	E	E	E	D	D	C	A	A	A	C	A	C	D	E	E	E	E	E	D	D
25	10	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
25	10	7	D	E	E	E	E	E	E	E	D	C	B	A	A	A	B	B	D	E	G	G	G	G	G	G
25	10	8	G	G	G	G	G	G	G	F	E	E	E	D	D	D	D	D	D	E	F	G	F	F	F	E
25	10	9	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
25	10	10	E	E	E	E	E	E	E	E	D	D	B	A	A	A	B	B	D	E	G	G	G	G	F	G
25	10	11	G	F	F	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
25	10	12	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	C	D	E	F	E	E	E	E	E
25	10	13	E	E	E	E	E	E	E	D	C	A	A	A	A	A	D	D	D	E	F	F	F	F	E	E
25	10	14	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	F
25	10	15	F	F	F	F	F	F	F	F	E	E	D	D	D	E	E	E	D	F	F	F	F	F	F	F
25	10	16	E	F	F	F	E	E	E	E	D	D	C	A	B	B	B	D	E	E	E	F	F	G	F	F
25	10	17	G	F	F	E	E	E	E	E	E	D	B	D	D	D	D	D	D	F	G	G	F	G	G	G
25	10	18	G	G	G	G	G	G	G	F	E	D	D	D	D	D	D	D	E	D	D	D	D	D	D	E
25	10	19	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	F	G	G	F	F	F	E
25	10	20	E	E	E	E	E	E	E	E	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	10	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D	E	E	F	G	G	G	G	G
25	10	22	G	G	G	F	F	G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	10	23	-	-	-	-	-	-	-	-	-	-	-	-	C	D	D	D	F	F	G	G	F	F	F	E
25	10	24	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	E	E	D	D	D	D	D	D	D
25	10	25	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	D	E	E	E
25	10	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
25	10	27	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	10	28	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	10	29	D	D	D	D	D	D	D	D	D	D	D	C	C	C	D	D	D	E	E	E	E	E	E	F
25	10	30	E	E	F	F	F	E	E	D	D	D	D	B	C	D	D	D	E	E	E	F	F	F	F	F
25	10	31	G	F	E	E	E	E	E	D	D	C	C	C	C	D	D	D	E	E	F	E	E	E	E	F
25	11	1	E	E	E	E	D	D	E	D	D	D	D	D	D	C	D	D	E	F	G	G	G	G	G	G
25	11	2	G	F	F	F	F	F	F	E	D	C	B	B	B	C	D	D	E	E	F	F	G	G	G	G
25	11	3	G	G	G	G	E	E	E	D	C	B	B	B	C	C	D	D	G	G	G	G	F	F	F	E
25	11	4	F	F	F	E	E	F	E	D	D	D	D	D	C	D	D	E	F	G	G	G	G	E	F	G
25	11	5	G	F	G	F	E	E	D	D	B	A	A	A	B	B	D	D	F	G	G	G	G	G	F	F
25	11	6	F	F	F	E	F	F	F	D	D	D	C	C	C	D	D	E	E	E	E	F	G	F	F	E
25	11	7	E	G	G	F	F	E	E	D	D	D	D	C	D	D	D	D	E	F	G	F	E	E	E	E
25	11	8	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	11	9	D	D	D	D	D	D	D	D	D	D	C	D	B	B	C	D	E	E	E	E	E	E	E	E
25	11	10	E	E	D	D	D	E	E	D	D	D	C	C	D	D	D	D	E	E	E	E	E	E	E	E
25	11	11	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	G	G	G	G	G	G	G	G

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25
STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

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
25	11	12	G	G	G	G	G	G	G	G	E	D	D	D	D	D	D	E	F	G	G	G	G	G	G	G
25	11	13	G	F	F	F	F	F	G	F	E	D	D	D	D	D	D	E	F	F	F	G	G	G	G	G
25	11	14	G	G	G	G	G	G	G	G	F	E	D	D	D	D	D	E	F	F	F	F	F	F	F	E
25	11	15	E	E	E	F	G	E	F	E	D	D	D	D	D	D	D	E	E	E	F	F	E	E	F	E
25	11	16	E	F	G	G	G	G	F	E	D	D	D	D	D	D	D	E	E	F	F	F	F	E	F	F
25	11	17	F	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E	F	F
25	11	18	G	G	G	F	E	E	E	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D
25	11	19	D	D	E	D	D	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	F	F	E
25	11	20	E	F	F	F	F	G	G	E	E	E	E	D	D	D	D	D	E	E	D	D	D	D	D	D
25	11	21	D	D	D	D	E	E	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E	F
25	11	22	F	F	F	G	F	F	F	F	E	D	D	D	D	D	D	E	E	F	F	F	E	F	G	G
25	11	23	G	G	G	G	G	G	G	G	F	E	D	D	D	D	D	E	F	E	E	E	E	E	E	E
25	11	24	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	E	E	E	E	E	E	E	E	E
25	11	25	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E	E
25	11	26	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
25	11	27	F	E	E	F	F	F	F	E	D	D	D	D	D	D	D	D	F	F	F	F	F	E	E	E
25	11	28	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	11	29	D	D	D	D	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	D	D	D	D	D
25	11	30	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	D	D	-
25	12	1	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	F	F
25	12	2	E	F	E	F	G	F	F	G	G	F	E	E	E	E	E	E	E	E	E	E	E	E	E	E
25	12	3	F	G	G	G	G	F	E	E	E	E	D	D	D	D	D	D	D	E	E	E	E	D	E	E
25	12	4	E	E	E	E	E	E	E	E	D	E	D	D	D	D	D	D	E	E	F	E	E	E	E	E
25	12	5	E	E	F	F	F	F	F	G	F	E	D	D	D	D	D	E	E	F	F	F	F	F	G	G
25	12	6	G	F	G	G	G	G	G	G	F	E	E	E	E	E	E	E	E	E	E	E	E	F	F	E
25	12	7	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	D	D	D	D
25	12	8	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	F	E	E	E
25	12	9	E	E	E	F	F	F	F	F	F	E	D	D	E	E	E	E	E	E	E	E	E	E	E	E
25	12	10	E	E	E	E	E	E	D	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
25	12	11	D	D	D	D	D	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
25	12	12	E	D	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	12	13	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
25	12	14	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
25	12	15	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	G	G	G	G	G	G	G
25	12	16	G	G	G	G	G	F	F	F	F	E	D	D	D	D	D	E	E	F	G	G	G	G	G	G
25	12	17	G	G	G	G	G	G	G	G	G	G	F	D	E	D	E	E	E	E	F	E	E	E	E	E
25	12	18	E	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E
25	12	19	E	E	E	E	E	F	F	F	F	E	D	D	D	D	D	E	E	E	E	E	F	F	F	F
25	12	20	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	F	G	G	G	G	G	G
25	12	21	G	G	G	G	G	G	G	G	G	G	E	D	D	D	D	E	E	F	G	G	G	G	F	F
25	12	22	F	F	G	G	G	E	E	E	E	E	E	D	D	D	D	D	E	F	F	G	G	G	G	G
25	12	23	G	G	G	G	G	G	G	G	G	D	D	D	D	D	D	D	E	F	G	F	F	F	E	F
25	12	24	E	E	E	E	E	E	E	E	E	E	E	E	D	D	D	D	D	E	E	E	E	E	E	E
25	12	25	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E	E
25	12	26	D	D	D	D	E	E	E	E	F	E	D	D	D	D	D	D	E	F	G	G	G	G	G	G

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25
STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS

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
25	12	27	G	F	F	F	F	E	E	E	E	E	E	E	E	D	D	D	E	F	F	F	F	E	E	E
25	12	28	F	F	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	D	E	D	D
25	12	29	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	F	F	F
25	12	30	E	E	F	F	F	F	G	F	E	E	D	D	D	D	D	D	E	F	F	F	F	F	F	E
25	12	31	E	E	F	F	F	E	F	E	E	E	D	D	D	D	D	E	E	E	F	F	F	E	D	E

JFDs of 10-Meter Wind vs. Delta T

January-December 2025

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 12/31/25

*** JAN-DEC 2025 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	4	5	3	0	0	0	0	0	0	0	0	0	0	0	0	12
3.51- 7.50	21	30	14	9	13	7	7	2	0	3	0	0	0	1	0	3	110
7.51-12.50	13	23	9	0	1	4	7	5	5	3	0	0	0	0	4	4	78
12.51-18.50	7	5	0	0	0	1	0	2	17	6	0	0	0	0	0	3	41
18.51-24.00	7	1	0	0	0	0	0	1	11	11	0	0	0	0	0	0	31
>24.00	0	0	0	0	0	0	0	1	13	16	0	0	0	0	0	0	30
TOTAL	48	63	28	12	14	12	14	11	46	39	0	0	0	1	4	10	302

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	2	7	4	3	0	0	0	0	0	0	1	0	0	0	0	18
3.51- 7.50	17	11	10	7	14	2	8	4	0	2	2	0	0	0	0	1	78
7.51-12.50	15	10	8	2	7	6	5	7	17	4	1	0	0	0	2	10	94
12.51-18.50	7	5	0	0	0	3	0	8	17	11	1	0	0	0	8	8	68
18.51-24.00	1	0	0	0	0	0	0	2	7	3	0	0	0	0	1	4	18
>24.00	1	0	0	0	0	0	0	0	10	3	0	0	0	0	1	1	16
TOTAL	42	28	25	13	24	11	13	21	51	23	4	1	0	0	12	24	292

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 12/31/25

*** JAN-DEC 2025 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	2	3	4	2	3	3	0	0	0	0	0	0	0	0	2	0	19
3.51- 7.50	11	14	8	11	14	15	8	6	1	4	3	1	1	4	3	5	109
7.51-12.50	14	11	4	4	5	13	16	9	22	11	2	0	1	3	8	21	144
12.51-18.50	11	7	0	0	0	1	6	10	19	6	3	1	1	3	13	19	100
18.51-24.00	2	0	0	0	0	0	0	8	10	1	0	0	0	0	8	4	33
>24.00	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	1	4
TOTAL	40	35	16	17	22	32	30	33	55	22	8	2	3	10	34	50	409

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	24	19	17	18	28	27	16	11	14	10	12	10	16	4	10	13	249
3.51- 7.50	85	63	31	46	51	99	140	79	55	41	51	36	33	44	40	47	941
7.51-12.50	99	66	38	27	25	84	125	97	109	71	54	32	25	69	100	146	1167
12.51-18.50	65	37	4	0	5	15	50	63	95	27	13	11	9	37	100	126	657
18.51-24.00	26	11	0	0	0	0	7	8	25	6	5	6	7	10	36	39	186
>24.00	10	1	0	0	0	0	0	1	17	2	0	0	0	0	11	14	56
TOTAL	309	197	90	91	109	225	338	259	315	157	135	95	90	164	297	385	3258

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 12/31/25

*** JAN-DEC 2025 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

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	77	52	39	26	22	25	26	38	52	41	18	11	16	21	37	51	552
3.51- 7.50	80	69	38	33	32	41	71	96	151	62	37	24	29	46	72	58	939
7.51-12.50	52	10	4	1	11	20	79	85	122	51	31	36	16	47	68	48	681
12.51-18.50	19	0	0	0	1	2	6	40	48	25	4	3	0	11	19	21	199
18.51-24.00	0	0	0	0	0	1	2	0	27	5	0	0	0	0	18	2	55
>24.00	0	0	0	0	0	0	0	0	2	1	0	0	0	0	4	11	18
TOTAL	228	131	81	60	66	89	184	259	402	185	90	74	61	125	218	191	2460

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	48
1.01- 3.50	67	28	5	11	4	0	13	31	70	58	37	36	34	45	61	79	579
3.51- 7.50	46	13	4	3	0	10	3	38	110	47	16	12	15	22	22	18	379
7.51-12.50	1	1	0	0	0	1	3	9	38	11	6	17	8	19	15	0	129
12.51-18.50	0	0	0	0	0	0	0	0	3	1	0	1	2	0	4	0	11
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	114	42	9	14	4	11	19	78	221	117	59	66	59	86	103	97	1147

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 12/31/25

*** JAN-DEC 2025 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	116
1.01- 3.50	44	15	5	4	6	8	13	40	78	50	47	34	46	52	80	80	602
3.51- 7.50	7	3	0	0	0	0	2	8	19	6	5	5	6	7	9	5	82
7.51-12.50	0	0	0	0	0	0	0	0	2	1	0	2	1	9	1	0	16
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	51	18	5	4	6	8	15	48	99	57	52	41	53	68	90	85	816

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 10.00 METERS

SPEED (MPH)	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	TOTAL
CALM																	182
1.01- 3.50	215	123	82	68	66	63	68	120	214	159	114	92	112	122	190	223	2031
3.51- 7.50	267	203	105	109	124	174	239	233	336	165	114	78	84	124	146	137	2638
7.51-12.50	194	121	63	34	49	128	235	212	315	152	94	87	51	147	198	229	2309
12.51-18.50	109	54	4	0	6	22	62	123	199	76	21	16	12	51	144	177	1076
18.51-24.00	36	12	0	0	0	1	9	19	80	26	5	6	7	10	64	49	324
>24.00	11	1	0	0	0	0	0	2	45	22	0	0	0	0	16	27	124
TOTAL	832	514	254	211	245	388	613	709	1189	600	348	279	266	454	758	842	8684

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:10M WIND VS 10M DELTA T - JAN-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 12/31/25

*** JAN-DEC 2025 ***

STABILITY BASED ON: DELTA T BETWEEN 60.0 AND 10.0 METERS
WIND MEASURED AT: 10.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 8760

TOTAL NUMBER OF VALID OBSERVATIONS: 8684

TOTAL NUMBER OF MISSING OBSERVATIONS: 76

PERCENT DATA RECOVERY FOR THIS PERIOD: 99.1 %

MEAN WIND SPEED FOR THIS PERIOD: 7.8 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
3.48	3.36	4.71	37.52	28.33	13.21	9.40

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	48	63	28	12	14	12	14	11	46	39	0	0	0	1	4	10	0
B	42	28	25	13	24	11	13	21	51	23	4	1	0	0	12	24	0
C	40	35	16	17	22	32	30	33	55	22	8	2	3	10	34	50	0
D	309	197	90	91	109	225	338	259	315	157	135	95	90	164	297	385	2
E	228	131	81	60	66	89	184	259	402	185	90	74	61	125	218	191	16
F	114	42	9	14	4	11	19	78	221	117	59	66	59	86	103	97	48
G	51	18	5	4	6	8	15	48	99	57	52	41	53	68	90	85	116
TOTAL	832	514	254	211	245	388	613	709	1189	600	348	279	266	454	758	842	182

JFDs of 100-Meter Wind vs. Delta T

January-March 2025

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-MAR 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 3/31/25

*** JAN-MAR 2025 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	0	0	0	0	0	0	0	1
TOTAL	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12.51-18.50	0	3	0	0	0	0	0	0	0	0	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	1	0	0	0	0	0	0	3	0	0	0	0	0	0	0	4
TOTAL	0	5	0	0	0	0	0	0	3	0	0	0	0	0	0	0	8

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-MAR 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 3/31/25

*** JAN-MAR 2025 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	1
7.51-12.50	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
12.51-18.50	1	4	1	0	0	0	0	0	0	2	0	0	0	0	0	1	9
18.51-24.00	2	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	5
>24.00	1	0	0	0	0	0	0	0	4	0	0	0	0	0	3	0	8
TOTAL	6	8	1	0	0	0	0	0	5	2	0	0	0	0	3	2	27

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	3	5	0	2	2	3	0	1	3	0	1	0	21
3.51- 7.50	4	4	5	5	9	19	4	3	6	8	5	5	12	6	7	8	110
7.51-12.50	15	21	15	5	8	11	14	12	23	21	16	10	11	16	19	21	238
12.51-18.50	22	20	13	10	1	1	13	21	16	22	11	8	5	17	67	49	296
18.51-24.00	40	33	7	1	0	0	1	13	13	11	10	4	1	15	46	79	274
>24.00	37	25	1	0	0	0	1	16	16	8	5	0	1	8	21	58	197
TOTAL	118	103	42	21	21	36	33	67	76	73	47	28	33	62	161	215	1136

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-MAR 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 3/31/25

*** JAN-MAR 2025 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	0	1	0	1	2	1	1	1	1	1	1	1	0	12
3.51- 7.50	5	0	0	3	8	9	2	2	2	5	1	1	2	0	6	6	52
7.51-12.50	4	3	1	3	8	12	3	9	2	7	8	4	3	3	11	16	97
12.51-18.50	6	4	1	1	3	1	18	22	19	13	12	6	3	19	28	27	183
18.51-24.00	5	0	0	0	4	0	7	18	26	13	14	17	6	6	25	13	154
>24.00	4	4	0	0	0	0	2	12	5	8	2	4	2	8	11	8	70
TOTAL	25	11	2	7	24	22	33	65	55	47	38	33	17	37	82	70	568

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	5
3.51- 7.50	2	1	0	3	2	4	2	4	2	1	1	2	0	2	2	3	31
7.51-12.50	4	1	2	5	4	5	0	8	10	9	2	3	1	5	4	5	68
12.51-18.50	1	3	1	1	0	0	3	16	17	5	9	7	4	12	15	3	97
18.51-24.00	0	0	0	0	0	0	1	7	11	3	5	0	1	7	5	1	41
>24.00	0	0	0	0	0	0	0	1	1	3	1	4	2	9	8	0	29
TOTAL	9	5	3	9	6	9	6	36	41	21	19	16	8	35	34	14	271

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-MAR 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 3/31/25

*** JAN-MAR 2025 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	0	0	0	0	0	0	1
3.51- 7.50	0	0	2	1	2	7	2	2	0	2	0	4	1	1	5	3	32
7.51-12.50	0	0	2	7	3	0	7	17	4	7	5	5	2	1	3	1	64
12.51-18.50	0	0	0	0	0	1	2	4	4	3	2	10	1	2	5	2	36
18.51-24.00	1	0	0	0	0	0	0	1	2	2	0	2	0	3	1	0	12
>24.00	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	3
TOTAL	1	0	4	8	5	8	11	24	10	16	7	21	4	9	14	6	148

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	3	0	1	0	4	5	1	4	3	5	2	2	4	1	2	2	39
3.51- 7.50	11	5	7	12	21	39	10	11	10	16	7	12	15	9	20	21	226
7.51-12.50	25	28	20	20	23	28	24	46	39	44	31	22	17	25	37	43	472
12.51-18.50	30	34	16	12	4	3	36	63	56	45	34	31	13	50	115	82	624
18.51-24.00	48	35	7	1	4	0	9	39	53	29	29	23	8	31	77	93	486
>24.00	42	30	1	0	0	0	3	29	30	20	8	8	5	27	43	66	312
TOTAL	159	132	52	45	56	75	83	192	191	159	111	98	62	143	294	307	2159

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-MAR 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 3/31/25

*** JAN-MAR 2025 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2160

TOTAL NUMBER OF VALID OBSERVATIONS: 2159

TOTAL NUMBER OF MISSING OBSERVATIONS: 1

PERCENT DATA RECOVERY FOR THIS PERIOD: 99.9%

MEAN WIND SPEED FOR THIS PERIOD: 16.3 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 22

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 10

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 22

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
.05	.37	1.25	52.62	26.31	12.55	6.86

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	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	1	0	0	0	0	0	0	0	0
B	0	5	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
C	6	8	1	0	0	0	0	0	5	2	0	0	0	0	3	2	0
D	118	103	42	21	21	36	33	67	76	73	47	28	33	62	161	215	0
E	25	11	2	7	24	22	33	65	55	47	38	33	17	37	82	70	0
F	9	5	3	9	6	9	6	36	41	21	19	16	8	35	34	14	0
G	1	0	4	8	5	8	11	24	10	16	7	21	4	9	14	6	0
TOTAL	159	132	52	45	56	75	83	192	191	159	111	98	62	143	294	307	0

JFDs of 100-Meter Wind vs. Delta T

April-June 2025

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T APR-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/25 - 6/30/25

*** APR-JUN 2025 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7.51-12.50	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12.51-18.50	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
TOTAL	4	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	10

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	1	3	2	0	0	1	2	0	0	0	0	0	0	0	0	0	9
7.51-12.50	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	3
12.51-18.50	0	3	1	0	0	0	0	6	0	0	0	0	0	0	0	2	12
18.51-24.00	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	4
>24.00	5	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	17
TOTAL	7	7	3	0	0	1	4	7	15	0	0	0	0	0	0	2	46

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T APR-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/25 - 6/30/25

*** APR-JUN 2025 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
3.51- 7.50	3	1	3	0	1	4	3	0	0	1	0	0	0	0	0	2	18
7.51-12.50	7	10	6	3	2	1	5	2	0	3	0	0	0	1	1	2	43
12.51-18.50	3	1	1	1	4	1	0	4	3	0	0	0	0	0	4	5	27
18.51-24.00	2	0	0	0	0	0	0	2	2	1	0	0	0	0	0	3	10
>24.00	4	0	0	0	0	0	0	7	18	2	0	0	3	0	0	1	35
TOTAL	19	13	11	5	7	6	8	15	23	7	0	0	3	1	5	13	136

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	3	1	5	3	3	7	6	1	0	1	0	0	2	1	1	6	40
3.51- 7.50	10	8	15	9	11	28	34	7	9	11	3	8	5	7	5	6	176
7.51-12.50	29	15	20	17	26	25	41	14	5	17	6	5	6	12	11	13	262
12.51-18.50	32	11	12	21	14	16	45	25	17	12	2	4	6	23	36	43	319
18.51-24.00	12	0	2	0	4	0	11	12	10	2	3	4	10	17	19	26	132
>24.00	6	0	0	0	0	0	3	14	33	0	0	8	3	5	9	8	89
TOTAL	92	35	54	50	58	76	140	73	74	43	14	29	32	65	81	102	1018

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T APR-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/25 - 6/30/25

*** APR-JUN 2025 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	2	0	0	1	2	1	0	1	0	0	1	0	1	0	0	9
3.51- 7.50	4	4	5	5	10	25	6	10	1	4	7	3	2	0	3	6	95
7.51-12.50	9	19	20	10	27	10	21	14	15	4	3	6	6	9	7	11	191
12.51-18.50	19	5	16	13	13	4	20	35	29	9	9	4	3	10	19	12	220
18.51-24.00	12	1	0	0	2	2	7	24	17	2	1	2	5	6	7	3	91
>24.00	0	0	0	0	3	0	0	3	25	1	0	0	1	3	0	0	36
TOTAL	44	31	41	28	56	43	55	86	88	20	20	16	17	29	36	32	642

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	2	3	4	0	0	0	1	0	0	0	0	0	0	11
3.51- 7.50	3	2	4	8	13	9	5	4	3	2	0	3	0	2	2	3	63
7.51-12.50	4	5	5	4	3	2	18	14	5	4	0	3	2	2	3	11	85
12.51-18.50	2	5	0	4	3	0	8	2	12	6	0	2	0	3	1	4	52
18.51-24.00	0	0	0	0	0	0	0	1	5	12	5	9	0	0	0	0	32
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
TOTAL	10	12	9	18	22	15	31	21	25	25	5	17	2	8	6	18	244

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T APR-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/25 - 6/30/25

*** APR-JUN 2025 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	0	1	0	0	0	0	0	0	5
3.51- 7.50	0	0	3	4	2	0	1	4	1	2	2	1	1	2	1	2	26
7.51-12.50	1	0	0	1	0	0	1	11	8	7	4	3	2	0	1	3	42
12.51-18.50	0	0	0	0	0	0	0	1	8	1	1	0	0	1	0	1	13
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	1	0	0	1
TOTAL	1	0	3	5	3	1	3	17	17	11	8	4	3	4	2	6	88

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	4	5	6	6	8	14	8	2	1	3	0	1	2	2	1	6	69
3.51- 7.50	22	18	32	26	37	67	51	25	14	20	12	15	8	11	11	19	388
7.51-12.50	53	49	51	35	58	38	88	56	33	35	13	17	16	24	23	40	629
12.51-18.50	56	25	30	39	34	21	73	75	69	28	12	10	9	37	60	67	645
18.51-24.00	27	1	2	0	6	2	18	39	38	17	10	15	15	23	26	32	271
>24.00	15	0	0	0	3	0	3	24	91	3	0	8	7	10	9	9	182
TOTAL	177	98	121	106	146	142	241	221	246	106	47	66	57	107	130	173	2184

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T APR-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/25 - 6/30/25

*** APR-JUN 2025 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
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: 13.5 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 3

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 3

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 3

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
.46	2.11	6.23	46.61	29.40	11.17	4.03

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	4	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0
B	7	7	3	0	0	1	4	7	15	0	0	0	0	0	0	2	0
C	19	13	11	5	7	6	8	15	23	7	0	0	3	1	5	13	0
D	92	35	54	50	58	76	140	73	74	43	14	29	32	65	81	102	0
E	44	31	41	28	56	43	55	86	88	20	20	16	17	29	36	32	0
F	10	12	9	18	22	15	31	21	25	25	5	17	2	8	6	18	0
G	1	0	3	5	3	1	3	17	17	11	8	4	3	4	2	6	0
TOTAL	177	98	121	106	146	142	241	221	246	106	47	66	57	107	130	173	0

JFDs of 100-Meter Wind vs. Delta T

January-June 2025

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 6/30/25

*** JAN-JUN 2025 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7.51-12.50	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12.51-18.50	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
TOTAL	4	0	0	0	0	0	0	2	5	0	0	0	0	0	0	0	11

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	1	3	2	0	0	1	2	0	0	0	0	0	0	0	0	0	9
7.51-12.50	0	1	0	0	0	0	2	1	0	0	0	0	0	0	0	0	4
12.51-18.50	0	6	1	0	0	0	0	6	0	0	0	0	0	0	0	2	15
18.51-24.00	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	4
>24.00	5	1	0	0	0	0	0	0	15	0	0	0	0	0	0	0	21
TOTAL	7	12	3	0	0	1	4	7	18	0	0	0	0	0	0	2	54

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 6/30/25

*** JAN-JUN 2025 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	3
3.51- 7.50	3	1	3	0	1	4	3	0	0	1	0	0	0	0	0	3	19
7.51-12.50	9	12	6	3	2	1	5	2	0	3	0	0	0	1	1	2	47
12.51-18.50	4	5	2	1	4	1	0	4	3	2	0	0	0	0	4	6	36
18.51-24.00	4	2	0	0	0	0	0	2	3	1	0	0	0	0	0	3	15
>24.00	5	0	0	0	0	0	0	7	22	2	0	0	3	0	3	1	43
TOTAL	25	21	12	5	7	6	8	15	28	9	0	0	3	1	8	15	163

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	3	1	6	3	6	12	6	3	2	4	0	1	5	1	2	6	61
3.51- 7.50	14	12	20	14	20	47	38	10	15	19	8	13	17	13	12	14	286
7.51-12.50	44	36	35	22	34	36	55	26	28	38	22	15	17	28	30	34	500
12.51-18.50	54	31	25	31	15	17	58	46	33	34	13	12	11	40	103	92	615
18.51-24.00	52	33	9	1	4	0	12	25	23	13	13	8	11	32	65	105	406
>24.00	43	25	1	0	0	0	4	30	49	8	5	8	4	13	30	66	286
TOTAL	210	138	96	71	79	112	173	140	150	116	61	57	65	127	242	317	2154

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 6/30/25

*** JAN-JUN 2025 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	2	0	0	2	2	2	2	2	1	1	2	1	2	1	0	21
3.51- 7.50	9	4	5	8	18	34	8	12	3	9	8	4	4	0	9	12	147
7.51-12.50	13	22	21	13	35	22	24	23	17	11	11	10	9	12	18	27	288
12.51-18.50	25	9	17	14	16	5	38	57	48	22	21	10	6	29	47	39	403
18.51-24.00	17	1	0	0	6	2	14	42	43	15	15	19	11	12	32	16	245
>24.00	4	4	0	0	3	0	2	15	30	9	2	4	3	11	11	8	106
TOTAL	69	42	43	35	80	65	88	151	143	67	58	49	34	66	118	102	1210

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	3	0	0	2	3	4	0	0	0	1	1	0	0	0	0	2	16
3.51- 7.50	5	3	4	11	15	13	7	8	5	3	1	5	0	4	4	6	94
7.51-12.50	8	6	7	9	7	7	18	22	15	13	2	6	3	7	7	16	153
12.51-18.50	3	8	1	5	3	0	11	18	29	11	9	9	4	15	16	7	149
18.51-24.00	0	0	0	0	0	0	1	8	16	15	10	9	1	7	5	1	73
>24.00	0	0	0	0	0	0	0	1	1	3	1	4	2	10	8	0	30
TOTAL	19	17	12	27	28	24	37	57	66	46	24	33	10	43	40	32	515

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 6/30/25

*** JAN-JUN 2025 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	0	2	0	0	0	0	0	0	6
3.51- 7.50	0	0	5	5	4	7	3	6	1	4	2	5	2	3	6	5	58
7.51-12.50	1	0	2	8	3	0	8	28	12	14	9	8	4	1	4	4	106
12.51-18.50	0	0	0	0	0	1	2	5	12	4	3	10	1	3	5	3	49
18.51-24.00	1	0	0	0	0	0	0	1	2	2	1	2	0	3	1	0	13
>24.00	0	0	0	0	0	0	0	0	0	1	0	0	0	3	0	0	4
TOTAL	2	0	7	13	8	9	14	41	27	27	15	25	7	13	16	12	236

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	7	5	7	6	12	19	9	6	4	8	2	3	6	3	3	8	108
3.51- 7.50	33	23	39	38	58	106	61	36	24	36	19	27	23	20	31	40	614
7.51-12.50	78	77	71	55	81	66	112	102	72	79	44	39	33	49	60	83	1101
12.51-18.50	86	59	46	51	38	24	109	138	125	73	46	41	22	87	175	149	1269
18.51-24.00	75	36	9	1	10	2	27	78	91	46	39	38	23	54	103	125	757
>24.00	57	30	1	0	3	0	6	53	121	23	8	16	12	37	52	75	494
TOTAL	336	230	173	151	202	217	324	413	437	265	158	164	119	250	424	480	4343

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 6/30/25

*** JAN-JUN 2025 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 4344

TOTAL NUMBER OF VALID OBSERVATIONS: 4343

TOTAL NUMBER OF MISSING OBSERVATIONS: 1

PERCENT DATA RECOVERY FOR THIS PERIOD: 99.9 %

MEAN WIND SPEED FOR THIS PERIOD: 14.9 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 25

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 13

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 25

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
.25	1.24	3.75	49.60	27.86	11.86	5.43

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	4	0	0	0	0	0	0	2	5	0	0	0	0	0	0	0	0
B	7	12	3	0	0	1	4	7	18	0	0	0	0	0	0	2	0
C	25	21	12	5	7	6	8	15	28	9	0	0	3	1	8	15	0
D	210	138	96	71	79	112	173	140	150	116	61	57	65	127	242	317	0
E	69	42	43	35	80	65	88	151	143	67	58	49	34	66	118	102	0
F	19	17	12	27	28	24	37	57	66	46	24	33	10	43	40	32	0
G	2	0	7	13	8	9	14	41	27	27	15	25	7	13	16	12	0
TOTAL	336	230	173	151	202	217	324	413	437	265	158	164	119	250	424	480	0

Stability Classes by Hour of Day

100-Meter Wind vs. Delta T

January-June 2025

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 6/30/25
STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

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
25	1	1	D	D	D	D	D	E	E	E	E	D	D	D	D	D	D	D	D	E	F	G	G	G	F	F
25	1	2	F	F	F	E	E	E	E	E	F	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E
25	1	3	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	1	4	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	1	5	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	1	6	D	E	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	F
25	1	7	F	G	F	F	F	G	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	1	8	E	E	E	D	D	D	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	F	F
25	1	9	F	F	F	F	E	E	F	F	F	F	E	D	D	D	D	D	D	D	E	E	E	E	D	D
25	1	10	E	D	D	D	D	D	E	E	E	D	D	D	D	D	D	D	D	D	E	F	E	F	F	G
25	1	11	G	G	G	F	F	F	E	E	E	E	E	D	D	D	D	D	D	D	E	E	F	F	F	F
25	1	12	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E
25	1	13	E	E	E	E	F	F	F	F	F	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E
25	1	14	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	D	D	D
25	1	15	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	F
25	1	16	F	E	E	E	F	E	E	F	F	D	D	D	D	D	D	D	E	E	E	E	F	E	F	E
25	1	17	E	F	F	E	F	E	F	F	E	E	D	D	D	D	D	D	D	E	E	E	D	D	D	D
25	1	18	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D
25	1	19	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	G	F
25	1	20	G	G	F	G	F	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	1	21	E	E	E	E	E	E	E	E	E	D	D	D	C	C	C	D	D	D	D	D	D	D	D	D
25	1	22	D	D	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	D
25	1	23	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	E	F	F	F	G	G
25	1	24	F	F	F	F	F	F	F	E	E	E	D	D	D	D	D	D	D	D	E	E	E	F	E	E
25	1	25	F	E	E	F	F	F	F	F	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	1	26	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	F	F	E	E	E
25	1	27	F	F	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
25	1	28	G	G	G	G	F	F	F	E	E	D	D	D	D	D	D	D	D	E	E	E	F	F	F	F
25	1	29	G	F	F	F	G	F	G	G	G	E	D	D	D	D	D	D	D	E	F	G	G	G	G	G
25	1	30	G	G	G	F	E	E	F	F	E	E	E	D	D	D	D	D	D	E	F	E	E	E	E	E
25	1	31	E	G	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	F	F	F	G	G
25	2	1	F	F	F	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	F
25	2	2	F	F	F	F	F	G	G	G	F	F	E	D	D	D	E	E	E	F	F	F	F	G	G	F
25	2	3	G	G	F	G	G	G	F	G	F	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	2	4	D	D	D	D	D	D	D	D	D	D	D	C	C	B	C	D	D	D	D	D	D	D	D	D
25	2	5	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	2	6	D	D	D	D	E	E	D	D	D	D	D	D	D	D	D	D	D	E	F	F	G	G	G	F
25	2	7	F	F	F	G	F	G	F	E	E	D	D	D	D	D	D	D	D	D	E	D	D	D	D	D
25	2	8	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	D	D
25	2	9	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	G	G
25	2	10	G	G	G	G	G	G	G	F	F	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E
25	2	11	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	2	12	D	D	D	D	D	D	D	D	D	D	D	D	D	-	D	D	D	D	D	D	D	D	E	E
25	2	13	E	E	E	E	F	F	F	E	E	E	E	E	D	D	D	D	D	E	E	F	F	F	E	E
25	2	14	E	E	F	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 6/30/25
STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

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
25	2	15	E	E	E	E	E	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D
25	2	16	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	2	17	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	2	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
25	2	19	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
25	2	20	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	F	F	F	G
25	2	21	G	G	G	G	G	G	G	G	G	E	E	E	D	D	D	D	D	D	E	E	E	E	E	E
25	2	22	F	E	E	E	E	D	E	E	D	D	D	D	D	D	D	D	D	D	E	E	F	F	F	E
25	2	23	F	F	F	F	F	F	F	G	F	E	D	D	D	D	D	D	D	E	F	F	F	F	F	F
25	2	24	F	F	E	E	F	F	F	F	E	D	D	D	D	D	D	D	D	E	F	F	F	F	F	F
25	2	25	E	E	F	F	F	F	G	G	F	E	D	D	D	D	D	D	D	E	E	F	G	F	E	E
25	2	26	F	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F	G	G
25	2	27	G	F	F	F	F	F	E	E	D	D	D	D	D	D	D	D	D	D	E	G	G	G	G	G
25	2	28	F	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
25	3	1	E	E	E	E	E	E	E	D	D	C	C	B	D	D	D	D	D	D	D	E	E	E	E	E
25	3	2	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	F	F	F	F
25	3	3	E	E	E	E	F	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
25	3	4	E	D	E	D	D	E	E	E	D	D	D	D	D	E	E	E	D	D	D	D	E	D	D	D
25	3	5	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E	F	F
25	3	6	F	F	F	F	G	G	F	G	F	E	F	F	E	D	D	D	D	D	E	E	E	E	E	E
25	3	7	E	E	E	E	E	E	E	E	D	C	B	D	D	D	D	D	D	D	D	D	D	D	D	D
25	3	8	D	E	E	E	E	F	F	E	D	D	D	D	D	D	D	D	D	D	E	F	G	G	G	G
25	3	9	G	G	G	G	G	G	G	F	E	D	D	D	D	D	D	D	D	D	E	F	G	F	G	G
25	3	10	G	G	G	G	G	G	G	G	F	E	D	D	D	D	D	D	D	D	E	F	E	E	E	E
25	3	11	E	F	F	F	E	E	E	E	D	C	C	C	C	B	B	D	D	D	E	E	E	F	F	F
25	3	12	F	G	G	G	G	G	G	G	E	D	D	D	D	D	D	D	D	D	E	F	G	G	G	G
25	3	13	F	F	F	G	G	G	G	G	E	D	D	D	D	D	D	D	D	D	E	F	G	F	E	E
25	3	14	E	E	E	E	E	E	E	E	D	D	D	D	E	D	D	E	D	D	E	E	E	E	E	E
25	3	15	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E
25	3	16	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	F	F	F	F	F
25	3	17	E	E	E	E	E	F	E	E	D	D	D	D	D	C	D	D	D	D	E	F	F	F	F	F
25	3	18	F	F	F	F	G	G	F	F	E	D	D	D	D	C	D	D	D	D	E	F	G	G	E	D
25	3	19	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	D	D	D	D	D	E
25	3	20	E	E	E	E	E	F	F	E	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	F
25	3	21	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F	F
25	3	22	F	G	G	G	G	G	G	G	F	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
25	3	23	E	E	E	E	E	E	D	D	D	D	D	C	C	C	D	D	D	D	D	E	E	E	E	E
25	3	24	E	E	E	E	F	F	F	E	E	D	D	D	D	D	D	D	D	D	E	E	E	F	F	G
25	3	25	G	G	F	G	G	G	F	E	D	D	D	D	D	D	D	D	D	D	E	F	F	G	G	G
25	3	26	E	E	F	G	F	G	G	G	F	D	D	D	D	D	D	D	D	D	E	E	F	E	E	F
25	3	27	E	F	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
25	3	28	E	E	E	E	D	D	D	D	D	D	B	C	B	A	B	C	D	D	D	E	D	D	D	D
25	3	29	D	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	D	D	D
25	3	30	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	3	31	D	D	E	E	D	E	E	D	D	D	C	C	C	C	D	D	D	D	D	E	F	F	F	F

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 6/30/25
STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

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
25	4	1	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E
25	4	2	E	D	D	D	D	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	4	3	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	4	4	F	F	F	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	4	5	D	D	D	D	D	D	D	D	D	D	C	C	C	B	B	B	C	D	D	E	E	E	E	E
25	4	6	E	E	F	F	F	F	F	E	D	D	D	C	C	C	D	D	D	D	D	F	F	F	F	F
25	4	7	F	F	F	E	E	E	E	D	C	B	B	B	C	D	D	D	D	D	D	E	E	E	E	F
25	4	8	F	F	F	F	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	4	9	E	E	E	E	E	F	G	F	D	D	D	D	D	D	D	D	D	D	D	E	E	E	F	G	G
25	4	10	G	G	F	E	E	E	E	D	D	D	D	C	C	D	D	D	D	D	D	D	E	E	E	E	E
25	4	11	E	E	E	E	F	F	F	D	D	D	C	C	C	C	D	D	D	D	D	F	F	E	E	E
25	4	12	E	E	E	E	E	E	E	D	D	D	D	C	C	C	C	C	C	D	D	E	E	E	E	E
25	4	13	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	D	D	E
25	4	14	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E
25	4	15	E	E	E	E	E	E	E	D	D	D	D	C	D	D	D	D	D	D	D	F	G	G	F	F
25	4	16	F	F	F	F	F	F	E	D	D	D	C	B	B	A	C	D	D	D	D	E	E	E	E	E
25	4	17	E	E	E	E	E	E	E	D	D	C	B	B	B	B	D	C	D	D	D	D	E	E	E	E
25	4	18	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	4	19	E	E	E	E	D	D	D	D	D	C	D	D	D	C	C	C	D	D	D	E	E	F	E	E
25	4	20	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	4	21	D	D	D	D	E	E	E	D	D	D	D	D	D	C	C	C	C	C	D	D	E	E	E	E
25	4	22	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	F
25	4	23	F	F	E	E	E	E	F	E	D	D	D	D	D	D	D	D	E	E	E	F	F	E	E	E
25	4	24	F	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
25	4	25	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E
25	4	26	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E
25	4	27	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	4	28	E	D	D	D	D	D	D	D	D	D	D	D	C	C	C	B	C	D	D	E	D	E	E	E
25	4	29	D	D	D	D	D	D	D	D	D	D	C	C	C	D	C	D	D	D	D	E	F	F	G	F
25	4	30	F	E	F	F	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	5	1	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	G
25	5	2	G	G	F	F	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	F	F	F	F
25	5	3	F	F	E	F	E	E	E	D	D	D	D	C	C	C	C	C	C	D	D	E	F	F	F	F
25	5	4	G	G	G	G	G	G	F	E	D	D	D	D	D	D	D	D	D	D	D	E	F	E	E	E
25	5	5	F	F	G	G	G	G	G	E	D	D	D	C	C	C	C	D	D	D	D	E	F	F	E	E
25	5	6	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	5	7	E	E	E	E	F	F	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E
25	5	8	F	F	F	F	F	E	E	D	D	D	B	B	B	B	C	C	D	D	D	E	F	F	E	E
25	5	9	E	F	G	G	G	G	F	D	D	D	D	C	C	C	C	D	D	D	D	E	F	F	F	F
25	5	10	G	G	G	G	G	G	G	E	D	D	D	D	D	D	D	D	D	D	D	E	F	F	G	G
25	5	11	G	G	G	G	G	G	G	E	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F	F
25	5	12	F	F	G	G	G	G	G	E	D	D	D	D	D	D	D	D	D	D	D	E	F	G	G	G
25	5	13	G	F	G	G	G	G	F	E	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	F
25	5	14	E	E	E	F	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	5	15	D	E	E	E	E	D	D	D	D	D	D	D	C	D	D	D	D	D	D	E	E	F	F	F

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 6/30/25
STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

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
25	5	16	F	E	E	E	E	E	E	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D	D
25	5	17	D	D	D	D	D	D	D	D	D	C	D	C	C	D	D	D	D	D	E	E	F	F	F	F
25	5	18	E	E	E	E	E	D	D	D	D	C	C	C	C	C	C	C	D	D	D	D	E	E	E	E
25	5	19	D	D	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	5	20	E	D	D	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
25	5	21	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	5	22	E	E	F	E	E	E	D	D	C	D	B	C	C	B	C	C	D	D	D	E	E	F	F	F
25	5	23	F	F	F	G	G	F	F	E	D	D	D	D	D	D	D	E	D	D	E	E	E	E	E	E
25	5	24	E	D	D	E	D	E	D	D	D	D	C	D	C	D	C	C	D	D	D	E	D	D	D	D
25	5	25	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E
25	5	26	E	E	E	E	E	E	D	D	D	D	D	D	D	E	D	D	D	D	D	D	E	E	E	E
25	5	27	E	D	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
25	5	28	E	E	E	E	E	F	E	D	D	B	B	D	D	D	D	D	D	D	E	E	E	E	E	E
25	5	29	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	D	E	E	F	F
25	5	30	F	F	F	F	E	F	E	D	D	D	C	D	C	C	D	D	D	D	E	F	G	G	G	G
25	5	31	F	F	F	F	E	E	E	E	D	D	D	C	B	A	C	D	D	D	E	D	E	E	F	G
25	6	1	F	F	G	G	G	F	E	D	D	D	C	B	B	B	C	D	D	D	E	F	G	F	F	F
25	6	2	F	G	G	G	F	F	E	D	D	D	B	C	A	A	A	B	B	C	D	E	E	E	E	E
25	6	3	D	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
25	6	4	E	F	F	F	F	F	F	D	D	D	C	D	C	C	D	C	D	D	E	E	E	E	F	F
25	6	5	F	G	F	G	F	F	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	6	6	E	E	E	E	E	E	D	D	D	D	D	B	A	A	A	C	D	D	D	E	F	F	F	F
25	6	7	F	F	F	F	F	F	E	E	E	E	E	D	C	D	D	D	D	D	D	E	E	F	F	F
25	6	8	F	F	F	F	E	E	E	D	D	D	D	D	D	D	E	D	D	D	D	E	E	F	F	F
25	6	9	F	F	F	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	F	F
25	6	10	G	G	G	G	G	G	F	E	D	D	D	C	D	D	D	D	D	D	E	E	F	G	F	F
25	6	11	F	G	G	F	G	F	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	F
25	6	12	F	F	F	F	F	F	E	E	D	D	D	C	B	A	B	B	C	D	D	E	E	F	F	F
25	6	13	F	F	F	F	F	F	E	D	D	D	C	D	C	C	B	C	D	D	D	E	F	F	F	E
25	6	14	E	E	E	E	E	E	E	D	D	C	C	B	B	C	C	C	D	D	D	D	E	E	F	F
25	6	15	F	F	F	F	F	E	E	D	D	D	C	B	B	B	C	C	D	D	D	D	E	E	E	E
25	6	16	E	E	E	E	E	E	E	D	D	D	D	B	A	B	C	B	C	D	D	E	F	E	E	D
25	6	17	E	E	D	E	G	E	E	E	E	D	D	C	D	D	D	D	D	D	E	E	E	E	E	F
25	6	18	E	E	E	E	E	E	D	D	D	D	D	D	D	C	D	D	C	D	D	E	E	E	E	F
25	6	19	F	G	G	G	G	F	F	E	D	D	D	D	C	C	C	C	D	D	D	E	E	E	E	E
25	6	20	E	E	E	E	E	E	D	D	D	D	C	C	B	C	B	B	C	D	D	D	E	E	E	E
25	6	21	E	E	E	E	E	E	D	D	D	D	C	D	C	C	C	D	D	D	D	D	E	E	E	E
25	6	22	E	E	E	E	E	E	D	D	D	C	B	D	C	C	B	C	D	D	D	D	E	E	E	E
25	6	23	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E	E	D
25	6	24	E	D	D	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	D	E	E	D	E	E
25	6	25	E	D	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	6	26	E	E	E	E	E	E	D	D	D	D	D	D	E	E	D	E	E	E	E	E	E	F	F	E
25	6	27	E	F	F	E	E	E	E	D	D	D	D	C	D	D	D	D	D	D	D	E	E	F	E	E
25	6	28	E	E	E	E	E	E	D	D	D	D	D	D	D	C	D	D	D	D	D	D	E	E	E	E
25	6	29	E	E	E	E	E	E	D	E	E	E	E	D	D	C	D	D	D	C	D	E	F	F	F	F

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-JUN 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 6/30/25
STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

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
25	6	30	F	F	F	F	F	F	E	D	E	E	D	D	D	D	D	D	D	D	D	E	F	F	G	G

JFDs of 100-Meter Wind vs. Delta T

July-September 2025

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-SEP 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 9/30/25

*** JUL-SEP 2025 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	0	1	0	0	0	0	0	0	0	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	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	0	1	0	0	0	0	0	0	0	0	0	0	0	2
3.51- 7.50	0	3	1	0	2	0	0	0	0	0	0	0	0	0	0	0	6
7.51-12.50	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6
12.51-18.50	0	0	0	0	0	0	0	0	1	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	5	4	1	0	3	0	0	0	1	0	0	0	0	0	0	1	15

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-SEP 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 9/30/25

*** JUL-SEP 2025 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	5
3.51- 7.50	5	6	3	5	4	4	1	0	0	0	0	0	0	0	0	0	28
7.51-12.50	5	1	0	0	0	0	3	0	0	0	0	0	0	1	0	3	13
12.51-18.50	2	1	0	0	0	0	0	1	2	0	0	0	0	0	1	2	9
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	14	10	3	5	5	4	4	1	2	0	0	0	0	1	1	6	56

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	5	2	4	7	8	11	5	1	3	4	2	2	5	3	4	6	72
3.51- 7.50	22	9	7	8	29	45	53	32	18	6	11	4	5	14	8	5	276
7.51-12.50	22	3	4	17	15	17	64	69	39	13	2	6	5	7	7	17	307
12.51-18.50	12	2	3	2	2	0	16	55	51	10	2	3	1	3	7	15	184
18.51-24.00	6	0	1	1	1	0	1	13	21	0	1	1	0	0	0	3	49
>24.00	3	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	6
TOTAL	70	16	19	35	55	73	139	170	134	33	18	16	16	27	26	47	894

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-SEP 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 9/30/25

*** JUL-SEP 2025 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	2	4	2	5	7	5	1	0	2	1	0	1	3	2	0	36
3.51- 7.50	14	9	9	10	25	43	28	11	6	4	1	4	3	4	4	4	179
7.51-12.50	20	13	7	22	9	14	49	47	24	7	6	1	2	7	4	14	246
12.51-18.50	11	4	0	6	9	0	26	61	69	14	5	5	2	1	6	7	226
18.51-24.00	3	1	0	0	0	0	1	14	16	3	0	1	1	0	1	2	43
>24.00	0	0	0	0	0	0	2	5	1	0	2	0	2	0	0	0	12
TOTAL	49	29	20	40	48	64	111	139	116	30	15	11	11	15	17	27	743

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	1	2	2	3	10	3	1	2	0	1	0	1	0	1	1	29
3.51- 7.50	3	15	11	11	10	18	28	15	5	4	2	0	1	2	5	5	135
7.51-12.50	9	10	4	4	4	2	18	44	18	10	2	1	0	1	2	2	131
12.51-18.50	4	0	0	0	0	0	4	20	15	5	4	5	0	0	2	4	63
18.51-24.00	0	0	0	0	0	0	0	2	4	2	1	2	0	2	1	2	16
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	17	26	17	17	17	30	53	82	44	21	10	8	2	5	11	14	375

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-SEP 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 9/30/25

*** JUL-SEP 2025 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	5	1	2	0	0	0	1	2	0	1	0	13
3.51- 7.50	0	0	0	3	2	3	8	6	11	3	2	1	3	2	2	7	53
7.51-12.50	0	1	2	0	0	0	7	15	8	5	5	2	0	0	1	0	46
12.51-18.50	0	2	0	0	0	0	0	0	4	1	2	1	0	0	0	0	10
18.51-24.00	0	0	0	0	0	0	0	0	1	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	3	2	3	3	8	16	23	24	9	9	5	5	2	4	7	123

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	10	7	10	11	19	33	14	5	5	6	4	3	9	6	8	7	157
3.51- 7.50	45	42	32	37	72	113	118	64	40	17	16	9	12	22	19	21	679
7.51-12.50	60	29	17	43	28	33	141	175	89	35	15	10	7	16	14	37	749
12.51-18.50	29	9	3	8	11	0	46	137	142	30	13	14	3	4	16	28	493
18.51-24.00	9	1	1	1	1	0	2	29	42	5	2	4	1	2	2	8	110
>24.00	3	0	0	0	0	0	2	5	3	0	2	0	2	0	0	1	18
TOTAL	156	88	63	100	131	179	323	415	321	93	52	40	34	50	59	102	2208

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-SEP 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 9/30/25

*** JUL-SEP 2025 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
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: 9.9 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 2

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 2

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 2

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
.09	.68	2.54	40.49	33.65	16.98	5.57

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	5	4	1	0	3	0	0	0	1	0	0	0	0	0	0	1	0
C	14	10	3	5	5	4	4	1	2	0	0	0	0	1	1	6	0
D	70	16	19	35	55	73	139	170	134	33	18	16	16	27	26	47	0
E	49	29	20	40	48	64	111	139	116	30	15	11	11	15	17	27	1
F	17	26	17	17	17	30	53	82	44	21	10	8	2	5	11	14	1
G	0	3	2	3	3	8	16	23	24	9	9	5	5	2	4	7	0
TOTAL	156	88	63	100	131	179	323	415	321	93	52	40	34	50	59	102	2

JFDs of 100-Meter Wind vs. Delta T

October-December 2025

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T OCT-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/25 - 12/31/25

*** OCT-DEC 2025 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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 B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	0	0	0	0	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	4	0	0	0	0	0	0	0	4
TOTAL	1	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	5

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T OCT-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/25 - 12/31/25

*** OCT-DEC 2025 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
12.51-18.50	2	4	0	0	0	0	0	2	1	0	0	0	0	0	0	0	9
18.51-24.00	4	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	7
>24.00	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	4
TOTAL	11	5	0	0	0	0	0	4	6	0	0	0	0	0	0	0	26

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	4	2	0	3	4	1	2	2	1	1	3	3	1	0	1	1	29
3.51- 7.50	16	8	5	7	16	23	16	4	7	6	9	7	8	5	8	6	151
7.51-12.50	37	20	10	1	10	34	37	21	19	9	13	13	9	7	8	27	275
12.51-18.50	45	17	8	1	9	48	21	21	31	11	12	8	3	12	19	48	314
18.51-24.00	21	4	2	0	0	10	8	16	18	4	1	3	0	15	27	35	164
>24.00	4	0	0	0	0	0	0	6	8	2	0	0	1	6	58	23	108
TOTAL	127	51	25	12	39	116	84	70	84	33	38	34	22	45	121	140	1043

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T OCT-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/25 - 12/31/25

*** OCT-DEC 2025 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	2	0	0	1	1	0	1	1	0	1	0	3	2	0	2	0	14
3.51- 7.50	9	2	3	5	3	9	3	4	1	3	7	1	2	2	2	8	64
7.51-12.50	5	5	11	11	15	11	14	13	8	8	4	7	4	1	6	14	137
12.51-18.50	16	3	1	0	10	16	30	39	39	14	6	8	8	11	30	22	253
18.51-24.00	8	0	0	0	0	4	6	19	34	2	10	7	2	8	6	7	113
>24.00	6	0	0	0	0	0	0	1	4	3	1	2	2	2	2	2	25
TOTAL	46	10	15	17	29	40	54	77	86	31	28	28	20	24	48	53	606

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	0	0	0	0	0	0	1	0	0	0	1	0	2	5
3.51- 7.50	6	1	3	2	0	7	0	1	0	0	5	1	2	0	2	5	35
7.51-12.50	1	2	6	4	5	12	9	25	11	3	6	5	4	3	4	9	109
12.51-18.50	1	0	1	1	0	9	11	17	15	12	7	10	3	7	9	5	108
18.51-24.00	2	0	0	0	0	0	2	3	4	2	1	1	2	5	7	1	30
>24.00	0	0	0	0	0	0	0	1	0	0	0	1	0	1	3	0	6
TOTAL	11	3	10	7	5	28	22	47	30	18	19	18	11	17	25	22	293

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T OCT-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/25 - 12/31/25

*** OCT-DEC 2025 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	2	5	0	0	1	0	0	1	1	1	0	0	1	4	18
3.51- 7.50	3	2	2	1	1	1	0	5	2	1	5	1	3	2	1	4	34
7.51-12.50	3	0	2	2	0	2	7	15	11	5	8	3	2	2	6	9	77
12.51-18.50	0	1	0	0	0	1	0	3	9	8	8	2	3	5	3	0	43
18.51-24.00	0	0	0	0	0	0	1	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	7	4	6	8	1	4	9	23	22	15	22	7	9	9	11	17	176

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	8	3	2	9	5	1	4	3	1	4	4	7	3	1	4	7	66
3.51- 7.50	35	13	13	15	20	40	19	14	10	10	26	10	15	9	13	23	285
7.51-12.50	51	28	29	18	30	59	67	74	49	25	31	28	19	13	24	59	604
12.51-18.50	64	25	10	2	19	74	62	82	95	45	33	28	17	35	61	75	727
18.51-24.00	35	4	2	0	0	14	17	39	58	8	12	11	5	28	40	43	316
>24.00	10	0	0	0	0	0	0	9	19	5	1	3	3	9	63	25	147
TOTAL	203	73	56	44	74	188	169	221	232	97	107	87	62	95	205	232	2149

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T OCT-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 10/ 1/25 - 12/31/25

*** OCT-DEC 2025 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 2208

TOTAL NUMBER OF VALID OBSERVATIONS: 2149

TOTAL NUMBER OF MISSING OBSERVATIONS: 59

PERCENT DATA RECOVERY FOR THIS PERIOD: 97.3 %

MEAN WIND SPEED FOR THIS PERIOD: 13.9 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 0

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 0

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
.00	.23	1.21	48.53	28.20	13.63	8.19

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	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	0	0	0	0
B	1	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
C	11	5	0	0	0	0	0	4	6	0	0	0	0	0	0	0	0
D	127	51	25	12	39	116	84	70	84	33	38	34	22	45	121	140	2
E	46	10	15	17	29	40	54	77	86	31	28	28	20	24	48	53	0
F	11	3	10	7	5	28	22	47	30	18	19	18	11	17	25	22	0
G	7	4	6	8	1	4	9	23	22	15	22	7	9	9	11	17	2
TOTAL	203	73	56	44	74	188	169	221	232	97	107	87	62	95	205	232	4

JFDs of 100-Meter Wind vs. Delta T

July-December 2025

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25

*** JUL-DEC 2025 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	0	1	0	0	0	0	0	0	0	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	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	0	1	0	0	0	0	0	0	0	0	0	0	0	2
3.51- 7.50	1	3	1	0	2	0	0	0	0	0	0	0	0	0	0	0	7
7.51-12.50	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6
12.51-18.50	0	0	0	0	0	0	0	0	1	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	4	0	0	0	0	0	0	0	4
TOTAL	6	4	1	0	3	0	0	0	5	0	0	0	0	0	0	1	20

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25

*** JUL-DEC 2025 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	5
3.51- 7.50	5	6	3	5	4	4	1	0	0	0	0	0	0	0	0	0	28
7.51-12.50	10	2	0	0	0	0	3	0	0	0	0	0	0	1	0	3	19
12.51-18.50	4	5	0	0	0	0	0	3	3	0	0	0	0	0	1	2	18
18.51-24.00	4	0	0	0	0	0	0	1	2	0	0	0	0	0	0	1	8
>24.00	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0	0	4
TOTAL	25	15	3	5	5	4	4	5	8	0	0	0	0	1	1	6	82

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	9	4	4	10	12	12	7	3	4	5	5	5	6	3	5	7	101
3.51- 7.50	38	17	12	15	45	68	69	36	25	12	20	11	13	19	16	11	427
7.51-12.50	59	23	14	18	25	51	101	90	58	22	15	19	14	14	15	44	582
12.51-18.50	57	19	11	3	11	48	37	76	82	21	14	11	4	15	26	63	498
18.51-24.00	27	4	3	1	1	10	9	29	39	4	2	4	0	15	27	38	213
>24.00	7	0	0	0	0	0	0	6	10	2	0	0	1	6	58	24	114
TOTAL	197	67	44	47	94	189	223	240	218	66	56	50	38	72	147	187	1937

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25

*** JUL-DEC 2025 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	3	2	4	3	6	7	6	2	0	3	1	3	3	3	4	0	50
3.51- 7.50	23	11	12	15	28	52	31	15	7	7	8	5	5	6	6	12	243
7.51-12.50	25	18	18	33	24	25	63	60	32	15	10	8	6	8	10	28	383
12.51-18.50	27	7	1	6	19	16	56	100	108	28	11	13	10	12	36	29	479
18.51-24.00	11	1	0	0	0	4	7	33	50	5	10	8	3	8	7	9	156
>24.00	6	0	0	0	0	0	2	6	5	3	3	2	4	2	2	2	37
TOTAL	95	39	35	57	77	104	165	216	202	61	43	39	31	39	65	80	1349

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	2	1	2	2	3	10	3	1	2	1	1	0	1	1	1	3	34
3.51- 7.50	9	16	14	13	10	25	28	16	5	4	7	1	3	2	7	10	170
7.51-12.50	10	12	10	8	9	14	27	69	29	13	8	6	4	4	6	11	240
12.51-18.50	5	0	1	1	0	9	15	37	30	17	11	15	3	7	11	9	171
18.51-24.00	2	0	0	0	0	0	2	5	8	4	2	3	2	7	8	3	46
>24.00	0	0	0	0	0	0	0	1	0	0	0	1	0	1	3	0	6
TOTAL	28	29	27	24	22	58	75	129	74	39	29	26	13	22	36	36	668

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25

*** JUL-DEC 2025 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	2	5	1	5	2	2	0	1	1	2	2	0	2	4	31
3.51- 7.50	3	2	2	4	3	4	8	11	13	4	7	2	6	4	3	11	87
7.51-12.50	3	1	4	2	0	2	14	30	19	10	13	5	2	2	7	9	123
12.51-18.50	0	3	0	0	0	1	0	3	13	9	10	3	3	5	3	0	53
18.51-24.00	0	0	0	0	0	0	1	0	1	0	0	0	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	7	8	11	4	12	25	46	46	24	31	12	14	11	15	24	299

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	18	10	12	20	24	34	18	8	6	10	8	10	12	7	12	14	223
3.51- 7.50	80	55	45	52	92	153	137	78	50	27	42	19	27	31	32	44	964
7.51-12.50	111	57	46	61	58	92	208	249	138	60	46	38	26	29	38	96	1353
12.51-18.50	93	34	13	10	30	74	108	219	237	75	46	42	20	39	77	103	1220
18.51-24.00	44	5	3	1	1	14	19	68	100	13	14	15	6	30	42	51	426
>24.00	13	0	0	0	0	0	2	14	22	5	3	3	5	9	63	26	165
TOTAL	359	161	119	144	205	367	492	636	553	190	159	127	96	145	264	334	4357

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25

*** JUL-DEC 2025 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 4416

TOTAL NUMBER OF VALID OBSERVATIONS: 4357

TOTAL NUMBER OF MISSING OBSERVATIONS: 59

PERCENT DATA RECOVERY FOR THIS PERIOD: 98.7 %

MEAN WIND SPEED FOR THIS PERIOD: 11.9 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 2

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 2

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 2

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
.05	.46	1.88	44.46	30.96	15.33	6.86

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
B	6	4	1	0	3	0	0	0	5	0	0	0	0	0	0	1	0
C	25	15	3	5	5	4	4	5	8	0	0	0	0	1	1	6	0
D	197	67	44	47	94	189	223	240	218	66	56	50	38	72	147	187	2
E	95	39	35	57	77	104	165	216	202	61	43	39	31	39	65	80	1
F	28	29	27	24	22	58	75	129	74	39	29	26	13	22	36	36	1
G	7	7	8	11	4	12	25	46	46	24	31	12	14	11	15	24	2
TOTAL	359	161	119	144	205	367	492	636	553	190	159	127	96	145	264	334	6

Stability Classes by Hour of Day

100-Meter Wind vs. Delta T

July-December 2025

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25
STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

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
25	7	1	G	F	F	G	F	G	F	D	D	D	C	B	B	B	B	D	D	D	E	E	F	F	G	G
25	7	2	F	F	F	F	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	7	3	E	E	E	E	F	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	E	E
25	7	4	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	7	5	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	E
25	7	6	E	E	E	E	E	E	D	D	D	D	C	C	C	B	C	D	D	D	D	E	F	F	F	F
25	7	7	F	E	F	F	F	F	E	D	D	C	B	C	B	C	C	D	D	D	D	E	F	E	F	D
25	7	8	D	D	E	E	E	E	D	D	D	D	D	D	C	C	C	C	D	D	D	E	F	F	F	F
25	7	9	G	G	G	G	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
25	7	10	E	E	E	E	E	F	F	E	E	D	D	D	D	D	C	D	D	D	D	E	E	E	E	E
25	7	11	E	E	E	E	E	E	E	D	D	D	D	D	C	D	D	C	C	D	D	D	E	E	E	F
25	7	12	E	E	E	E	E	D	D	D	D	D	B	C	B	C	C	D	D	D	D	F	E	E	F	F
25	7	13	F	F	F	F	F	F	F	E	D	D	C	D	B	C	D	D	C	C	D	E	F	F	F	F
25	7	14	G	G	G	G	G	G	F	E	D	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F
25	7	15	F	F	F	F	F	F	E	D	D	D	D	D	C	D	D	D	D	D	C	E	E	E	E	E
25	7	16	E	D	E	E	E	E	E	E	D	D	D	D	D	D	A	D	D	D	D	D	D	E	E	E
25	7	17	E	E	E	E	D	D	D	D	D	C	B	D	D	D	D	D	D	D	D	D	D	E	D	E
25	7	18	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
25	7	19	E	E	E	E	E	E	E	D	D	C	C	C	C	D	D	D	D	D	D	E	E	E	E	E
25	7	20	D	E	F	E	F	F	F	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
25	7	21	E	E	E	D	E	E	D	D	D	D	D	E	D	D	D	D	D	E	E	E	E	E	E	E
25	7	22	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	7	23	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	7	24	D	D	E	E	E	D	D	D	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E
25	7	25	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E	E
25	7	26	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	F	F
25	7	27	F	F	E	E	F	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	7	28	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	7	29	F	F	F	E	F	F	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	7	30	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
25	7	31	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	8	1	E	E	E	E	E	E	E	D	D	D	C	D	D	C	D	D	D	D	D	E	E	E	E	E
25	8	2	E	F	F	F	F	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	E	E
25	8	3	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	8	4	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	F	E
25	8	5	E	E	F	F	F	E	E	E	D	D	D	D	D	C	D	D	D	D	D	E	E	E	E	E
25	8	6	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
25	8	7	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
25	8	8	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	F	F	E	E	E	E	E	E
25	8	9	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	8	10	E	E	E	D	E	E	E	D	E	D	D	D	D	D	C	D	D	D	E	F	F	F	F	F
25	8	11	F	F	F	F	F	F	E	E	E	E	D	D	D	D	D	E	D	D	D	E	E	E	E	E
25	8	12	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	F	F	G	F	G
25	8	13	G	F	F	F	F	F	F	F	E	D	D	D	D	D	D	D	D	D	D	F	F	E	E	E

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25
STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

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
25	8	14	E	E	E	F	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	8	15	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	F	E	E	E
25	8	16	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	E	D	D	F	F	F	E	E
25	8	17	E	E	E	E	F	F	E	E	E	D	D	D	D	D	D	D	D	D	D	F	F	E	E	E
25	8	18	E	E	E	E	E	E	E	F	E	E	E	D	D	D	D	D	D	D	E	F	F	F	F	F
25	8	19	F	F	F	F	F	F	E	D	D	D	D	D	A	C	C	D	D	D	E	F	F	F	F	F
25	8	20	F	F	F	F	F	F	E	E	D	C	D	D	C	C	B	C	D	E	E	F	F	E	E	E
25	8	21	E	F	F	E	E	E	E	E	D	D	D	D	C	C	D	D	D	D	D	E	F	F	E	E
25	8	22	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	F	E	F	E
25	8	23	E	E	E	E	E	E	D	D	D	D	C	C	C	C	D	D	D	D	E	F	F	E	E	F
25	8	24	F	F	F	F	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	F	F	F	E	E
25	8	25	E	E	F	E	F	F	F	E	D	C	C	C	B	C	B	C	D	D	E	F	F	G	G	G
25	8	26	G	G	G	G	G	G	G	F	E	D	D	D	D	D	D	D	D	D	D	E	F	E	F	F
25	8	27	F	F	F	F	F	F	F	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	F
25	8	28	F	F	F	F	E	E	E	D	D	D	D	D	D	D	D	D	D	E	F	F	F	F	G	G
25	8	29	G	G	G	G	F	F	F	F	E	D	D	D	D	D	D	D	D	D	E	F	F	F	F	G
25	8	30	G	G	G	G	F	F	F	E	E	D	D	D	D	D	D	D	E	E	E	E	E	F	F	E
25	8	31	F	F	E	E	E	E	E	E	E	D	D	D	D	D	D	E	D	D	D	D	E	D	D	D
25	9	1	E	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
25	9	2	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	F	F	F	F	F
25	9	3	F	F	F	F	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	F
25	9	4	F	F	F	F	F	G	G	F	E	D	D	D	D	D	D	D	D	E	E	F	E	E	F	F
25	9	5	F	F	F	F	F	E	E	E	D	D	D	D	D	D	D	D	D	D	F	G	G	G	G	G
25	9	6	G	G	F	E	F	F	F	E	D	D	C	D	D	D	D	D	D	D	E	F	G	G	F	G
25	9	7	G	G	G	G	F	F	F	E	E	E	D	D	D	D	D	D	D	D	F	F	F	F	F	F
25	9	8	F	F	F	F	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	F	F	E	E
25	9	9	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	9	10	E	E	F	F	F	F	F	E	E	D	D	D	D	D	D	D	D	E	F	F	G	G	G	G
25	9	11	F	F	F	F	F	F	F	F	E	D	D	D	D	D	D	D	D	E	E	F	F	F	F	E
25	9	12	E	E	F	F	F	E	E	E	D	D	D	D	D	E	D	D	D	E	E	E	E	E	E	E
25	9	13	F	F	F	F	F	F	F	F	E	D	D	D	D	D	C	D	E	E	F	F	F	F	E	E
25	9	14	E	F	F	F	F	F	F	F	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
25	9	15	E	E	E	F	F	F	F	E	E	D	D	D	D	B	C	E	E	E	F	F	F	F	F	G
25	9	16	F	F	G	F	F	F	F	E	E	D	D	D	D	D	D	D	D	E	F	F	F	F	G	F
25	9	17	F	F	F	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	F	F	F	F
25	9	18	F	F	F	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	F	F
25	9	19	F	F	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
25	9	20	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	C	D	E	E	E	F	F	E	E
25	9	21	F	F	F	F	F	F	F	E	E	E	E	D	E	D	D	D	D	D	E	E	F	F	F	F
25	9	22	F	F	E	E	F	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	F	F
25	9	23	F	E	D	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
25	9	24	F	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	F	G	G	G	G	G
25	9	25	G	G	G	G	G	G	G	F	E	D	D	D	D	D	D	D	D	E	G	G	G	G	G	G
25	9	26	G	G	G	G	G	G	G	F	E	D	D	D	D	D	D	D	D	E	F	F	F	F	G	F
25	9	27	G	G	G	G	G	G	G	F	E	D	D	D	D	D	D	D	D	E	F	F	F	F	F	F

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25
STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

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
25	9	28	G	G	F	F	F	F	G	F	E	D	D	D	D	D	D	D	D	F	G	G	G	G	G	G
25	9	29	G	G	G	G	G	F	F	F	E	D	D	D	D	D	D	D	E	E	F	G	G	G	G	G
25	9	30	G	G	F	G	G	G	G	F	E	D	D	D	D	D	D	D	D	E	F	F	F	G	G	G
25	10	1	G	G	G	F	F	G	G	F	F	E	D	D	D	D	D	D	D	E	F	G	G	G	G	G
25	10	2	G	G	G	G	G	F	F	F	E	D	D	D	D	D	D	D	D	E	F	F	F	E	E	F
25	10	3	F	G	F	F	F	F	F	F	E	D	D	D	C	C	C	D	D	E	F	F	E	F	F	E
25	10	4	E	E	E	E	E	E	E	E	D	D	C	B	B	B	C	D	D	D	E	E	E	E	E	E
25	10	5	E	E	E	E	E	E	E	D	D	D	C	C	B	D	C	D	D	E	E	E	E	E	E	E
25	10	6	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	10	7	D	D	D	D	E	E	E	E	D	D	D	C	C	C	D	D	D	E	F	G	G	G	G	G
25	10	8	G	G	G	G	G	G	G	G	E	E	E	D	D	D	D	D	D	E	F	F	F	F	F	E
25	10	9	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
25	10	10	E	E	E	E	E	E	E	E	D	D	D	C	C	C	D	D	D	E	F	G	F	F	F	F
25	10	11	F	F	F	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
25	10	12	D	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
25	10	13	E	E	E	E	E	E	E	D	D	C	C	C	C	C	D	D	D	E	E	F	F	E	E	E
25	10	14	E	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	F
25	10	15	F	F	F	F	F	F	F	E	E	E	E	D	D	E	E	E	D	E	F	F	E	E	F	E
25	10	16	E	F	F	F	E	E	E	E	D	D	D	C	D	D	D	D	D	E	E	F	F	F	F	F
25	10	17	F	F	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	F	G	F	G	G	G
25	10	18	G	G	G	G	G	G	G	F	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E
25	10	19	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	F	F	F	F	E	E
25	10	20	E	E	E	E	E	E	E	E	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	10	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D	E	E	F	F	F	F	F	F
25	10	22	G	G	G	G	G	G	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	10	23	-	-	-	-	-	-	-	-	-	-	-	-	D	D	D	D	F	F	G	F	F	F	F	F
25	10	24	E	E	E	E	E	E	E	D	D	D	D	D	D	E	E	E	E	D	D	D	D	D	D	D
25	10	25	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	D	E	E	E
25	10	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
25	10	27	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	10	28	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	10	29	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
25	10	30	E	E	F	F	F	F	F	E	D	D	D	D	D	D	D	D	E	E	E	F	F	F	F	G
25	10	31	G	F	F	F	F	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E	F
25	11	1	E	E	E	E	D	D	E	D	D	D	D	D	D	D	D	D	E	E	F	F	G	G	G	G
25	11	2	G	F	F	F	F	F	F	E	D	D	D	C	D	D	D	D	E	E	E	E	F	F	G	G
25	11	3	G	G	F	F	E	E	E	E	D	D	C	D	D	D	D	D	F	G	G	G	F	F	F	E
25	11	4	F	F	F	F	E	F	E	E	D	D	D	D	D	D	D	E	F	F	G	G	G	F	F	G
25	11	5	G	F	F	F	E	E	D	D	D	C	C	C	C	D	D	D	E	F	G	G	G	F	F	F
25	11	6	F	F	F	E	F	F	F	E	D	D	D	D	D	D	D	D	E	E	E	F	F	F	F	E
25	11	7	E	F	G	F	F	F	E	D	D	D	D	D	D	D	D	D	E	F	F	F	E	E	E	E
25	11	8	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	11	9	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E
25	11	10	E	E	D	D	D	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
25	11	11	E	E	E	E	E	D	E	D	D	D	D	D	D	D	D	E	F	G	G	G	G	G	G	G

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25
STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

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
25	11	12	G	G	G	G	G	G	G	G	E	D	D	D	D	D	D	D	E	F	G	G	G	G	F	F
25	11	13	F	F	F	G	F	F	F	F	D	D	D	D	D	D	D	E	E	E	F	F	G	G	G	G
25	11	14	G	G	G	G	G	G	G	G	E	E	D	D	D	D	D	E	E	F	E	F	F	F	E	E
25	11	15	E	E	E	F	F	E	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E	E
25	11	16	E	E	F	F	F	F	F	E	D	D	D	D	D	D	D	D	E	F	E	E	F	E	E	E
25	11	17	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	F	F
25	11	18	F	F	G	F	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	11	19	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
25	11	20	E	E	F	F	F	G	G	F	E	D	E	D	B	D	D	D	D	D	D	D	D	D	D	D
25	11	21	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	D	D	D	D	E	E	E
25	11	22	F	F	F	F	F	F	F	F	E	D	D	D	D	D	D	D	E	F	F	E	E	F	F	G
25	11	23	G	G	G	G	G	G	G	G	F	E	D	D	D	D	D	D	E	E	E	E	E	D	D	D
25	11	24	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
25	11	25	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	11	26	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	E	E	D	D	D	E	E	E
25	11	27	E	E	E	F	F	F	F	E	E	D	D	D	D	D	D	D	E	F	F	F	F	E	E	E
25	11	28	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	11	29	D	D	D	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	11	30	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	-
25	12	1	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	E	F	F
25	12	2	E	F	E	F	F	F	F	F	F	E	E	D	D	D	D	D	E	E	E	E	E	E	E	E
25	12	3	E	F	F	F	F	F	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	12	4	D	D	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
25	12	5	E	E	E	E	E	E	F	F	E	D	D	D	D	D	D	D	E	E	F	F	F	E	F	F
25	12	6	F	F	G	G	G	G	G	G	F	E	E	E	D	D	D	D	E	E	D	E	E	E	E	E
25	12	7	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	12	8	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F	E	E	E
25	12	9	E	E	E	F	F	F	E	F	E	E	D	D	D	D	D	E	E	E	E	E	E	E	E	E
25	12	10	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	D	D	D	D	D
25	12	11	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	D
25	12	12	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	12	13	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E
25	12	14	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
25	12	15	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	F	G	G	G	G	G	G
25	12	16	G	G	F	F	F	F	F	F	E	D	D	D	D	D	D	D	E	E	F	G	G	G	G	G
25	12	17	G	G	G	G	G	G	G	G	G	G	E	D	D	D	D	D	E	E	E	E	E	E	D	D
25	12	18	D	D	E	E	D	D	E	E	E	D	D	D	D	D	D	D	D	D	D	D	E	E	D	E
25	12	19	E	E	E	E	E	E	E	F	F	E	D	D	D	D	D	D	E	E	E	E	E	E	F	E
25	12	20	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	F	F	G	G	G	G
25	12	21	G	G	G	G	G	G	G	G	G	F	E	D	D	D	D	D	E	F	F	F	F	F	F	E
25	12	22	F	E	F	F	F	E	E	E	E	D	D	D	D	D	D	D	E	E	F	F	G	G	G	G
25	12	23	G	G	G	G	G	G	G	G	F	D	D	D	D	D	D	D	E	F	F	F	F	E	E	E
25	12	24	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E
25	12	25	E	D	D	D	E	E	E	E	E	E	D	D	D	D	D	D	D	E	E	E	E	E	D	D
25	12	26	D	D	D	D	D	E	E	E	E	E	D	D	D	D	D	D	D	F	F	G	G	G	F	G

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JUL-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 7/ 1/25 - 12/31/25
STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS

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
25	12	27	G	G	G	F	F	F	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
25	12	28	F	F	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
25	12	29	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	F	F
25	12	30	F	F	F	F	F	F	F	E	E	D	D	D	D	D	D	D	E	E	F	F	F	F	F	E
25	12	31	E	E	F	F	F	F	F	F	F	E	E	D	D	D	D	D	E	E	F	F	E	E	D	D

JFDs of 100-Meter Wind vs. Delta T

January-December 2025

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 12/31/25

*** JAN-DEC 2025 ***

STABILITY CLASS A

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
7.51-12.50	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12.51-18.50	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	2
18.51-24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4
TOTAL	5	0	1	0	0	0	0	2	5	0	0	0	0	0	0	0	13

STABILITY CLASS B

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
3.51- 7.50	2	6	3	0	2	1	2	0	0	0	0	0	0	0	0	0	16
7.51-12.50	4	2	0	0	0	0	2	1	0	0	0	0	0	0	0	1	10
12.51-18.50	0	6	1	0	0	0	0	6	1	0	0	0	0	0	0	2	16
18.51-24.00	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	4
>24.00	5	1	0	0	0	0	0	0	19	0	0	0	0	0	0	0	25
TOTAL	13	16	4	0	3	1	4	7	23	0	0	0	0	0	0	3	74

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 12/31/25

*** JAN-DEC 2025 ***

STABILITY CLASS C

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	2	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	8
3.51- 7.50	8	7	6	5	5	8	4	0	0	1	0	0	0	0	0	3	47
7.51-12.50	19	14	6	3	2	1	8	2	0	3	0	0	0	2	1	5	66
12.51-18.50	8	10	2	1	4	1	0	7	6	2	0	0	0	0	5	8	54
18.51-24.00	8	2	0	0	0	0	0	3	5	1	0	0	0	0	0	4	23
>24.00	5	0	0	0	0	0	0	8	25	2	0	0	3	0	3	1	47
TOTAL	50	36	15	10	12	10	12	20	36	9	0	0	3	2	9	21	245

STABILITY CLASS D

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	12	5	10	13	18	24	13	6	6	9	5	6	11	4	7	13	162
3.51- 7.50	52	29	32	29	65	115	107	46	40	31	28	24	30	32	28	25	713
7.51-12.50	103	59	49	40	59	87	156	116	86	60	37	34	31	42	45	78	1082
12.51-18.50	111	50	36	34	26	65	95	122	115	55	27	23	15	55	129	155	1113
18.51-24.00	79	37	12	2	5	10	21	54	62	17	15	12	11	47	92	143	619
>24.00	50	25	1	0	0	0	4	36	59	10	5	8	5	19	88	90	400
TOTAL	407	205	140	118	173	301	396	380	368	182	117	107	103	199	389	504	4091

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 12/31/25

*** JAN-DEC 2025 ***

STABILITY CLASS E

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	4	4	4	3	8	9	8	4	2	4	2	5	4	5	5	0	71
3.51- 7.50	32	15	17	23	46	86	39	27	10	16	16	9	9	6	15	24	390
7.51-12.50	38	40	39	46	59	47	87	83	49	26	21	18	15	20	28	55	671
12.51-18.50	52	16	18	20	35	21	94	157	156	50	32	23	16	41	83	68	882
18.51-24.00	28	2	0	0	6	6	21	75	93	20	25	27	14	20	39	25	401
>24.00	10	4	0	0	3	0	4	21	35	12	5	6	7	13	13	10	143
TOTAL	164	81	78	92	157	169	253	367	345	128	101	88	65	105	183	182	2559

STABILITY CLASS F

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	5	1	2	4	6	14	3	1	2	2	2	0	1	1	1	5	50
3.51- 7.50	14	19	18	24	25	38	35	24	10	7	8	6	3	6	11	16	264
7.51-12.50	18	18	17	17	16	21	45	91	44	26	10	12	7	11	13	27	393
12.51-18.50	8	8	2	6	3	9	26	55	59	28	20	24	7	22	27	16	320
18.51-24.00	2	0	0	0	0	0	3	13	24	19	12	12	3	14	13	4	119
>24.00	0	0	0	0	0	0	0	2	1	3	1	5	2	11	11	0	36
TOTAL	47	46	39	51	50	82	112	186	140	85	53	59	23	65	76	68	1183

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 12/31/25

*** JAN-DEC 2025 ***

STABILITY CLASS G

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	1	2	5	2	6	3	3	0	3	1	2	2	0	2	4	37
3.51- 7.50	3	2	7	9	7	11	11	17	14	8	9	7	8	7	9	16	145
7.51-12.50	4	1	6	10	3	2	22	58	31	24	22	13	6	3	11	13	229
12.51-18.50	0	3	0	0	0	2	2	8	25	13	13	13	4	8	8	3	102
18.51-24.00	1	0	0	0	0	0	1	1	3	2	1	2	1	3	1	0	16
>24.00	0	0	0	0	0	0	0	0	0	1	0	0	0	3	0	0	4
TOTAL	9	7	15	24	12	21	39	87	73	51	46	37	21	24	31	36	535

STABILITY CLASS ALL

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH
JOINT FREQUENCY DISTRIBUTION OF WIND SPEED AND DIRECTION IN HOURS AT 100.00 METERS

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	25	15	19	26	36	53	27	14	10	18	10	13	18	10	15	22	331
3.51- 7.50	113	78	84	90	150	259	198	114	74	63	61	46	50	51	63	84	1578
7.51-12.50	189	134	117	116	139	158	320	351	210	139	90	77	59	78	98	179	2454
12.51-18.50	179	93	59	61	68	98	217	357	362	148	92	83	42	126	252	252	2489
18.51-24.00	119	41	12	2	11	16	46	146	191	59	53	53	29	84	145	176	1183
>24.00	70	30	1	0	3	0	8	67	143	28	11	19	17	46	115	101	659
TOTAL	695	391	292	295	407	584	816	1049	990	455	317	291	215	395	688	814	8700

PROGRAM: JFD VERSION: PC-1.2
NPPD-COOPER NUCLEAR STATION JFD:100M WIND VS 10M DELTA T JAN-DEC 2025
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/25 - 12/31/25

*** JAN-DEC 2025 ***

STABILITY BASED ON: DELTA T BETWEEN 100.0 AND 10.0 METERS
WIND MEASURED AT: 100.0 METERS
WIND THRESHOLD AT: 1.00 MPH

TOTAL NUMBER OF OBSERVATIONS: 8760

TOTAL NUMBER OF VALID OBSERVATIONS: 8700

TOTAL NUMBER OF MISSING OBSERVATIONS: 60

PERCENT DATA RECOVERY FOR THIS PERIOD: 99.3 %

MEAN WIND SPEED FOR THIS PERIOD: 13.4 MPH

NUMBER OF OBSERVATIONS WITH BACKUP WIND SPEED: 27

NUMBER OF OBSERVATIONS WITH BACKUP WIND DIRECTION: 15

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 27

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
.15	.85	2.82	47.02	29.41	13.60	6.15

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	5	0	1	0	0	0	0	2	5	0	0	0	0	0	0	0	0
B	13	16	4	0	3	1	4	7	23	0	0	0	0	0	0	3	0
C	50	36	15	10	12	10	12	20	36	9	0	0	3	2	9	21	0
D	407	205	140	118	173	301	396	380	368	182	117	107	103	199	389	504	2
E	164	81	78	92	157	169	253	367	345	128	101	88	65	105	183	182	1
F	47	46	39	51	50	82	112	186	140	85	53	59	23	65	76	68	1
G	9	7	15	24	12	21	39	87	73	51	46	37	21	24	31	36	2
TOTAL	695	391	292	295	407	584	816	1049	990	455	317	291	215	395	688	814	6

ATMOSPHERIC DIFFUSION ESTIMATES

The tables of atmospheric diffusion estimates in this section were generated using the latest version of the computer code XOQDOQ included as part of NRCDose 2.3.20 (ORNL 2015). Data are given for 22 distances and 16 compass points (directions from site) centered on the Cooper Nuclear Station (CNS). Tables are presented for the ground-level (vent) and elevated (stack) release options separately, and for the following time periods in 2025: January-March, April-June, January-June, July-September, October-December, July-December, and January-December.

The most recent 5-year average X/Q, depleted X/Q, and D/Q values for CNS have been calculated and compared to the 2025 annual values provided herein. The differences in both peak directions and magnitudes were small and were likely the result of minor year-to-year climatological fluctuations. The most recent 5-year average X/Q, depleted X/Q, and D/Q values are representative of conditions around CNS and are available for use in dose calculations as necessary.

Atmospheric Diffusion Estimates

Ground Level Releases

January-March 2025

VENTS GROUND LEVEL RELEASES - JAN-MAR 2025
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	5.331E-05	1.664E-05	8.668E-06	4.333E-06	1.793E-06	9.908E-07	6.377E-07	4.506E-07	3.390E-07	2.667E-07	2.170E-07
SSW	3.205E-05	1.011E-05	5.152E-06	2.536E-06	1.041E-06	5.723E-07	3.670E-07	2.586E-07	1.942E-07	1.525E-07	1.239E-07
SW	1.415E-05	4.714E-06	2.483E-06	1.233E-06	4.955E-07	2.684E-07	1.702E-07	1.189E-07	8.855E-08	6.910E-08	5.581E-08
WSW	7.406E-06	2.463E-06	1.291E-06	6.391E-07	2.552E-07	1.376E-07	8.698E-08	6.058E-08	4.503E-08	3.508E-08	2.829E-08
W	7.959E-06	2.761E-06	1.484E-06	7.405E-07	2.974E-07	1.611E-07	1.022E-07	7.136E-08	5.317E-08	4.149E-08	3.351E-08
WNW	1.402E-05	4.728E-06	2.493E-06	1.237E-06	4.957E-07	2.681E-07	1.698E-07	1.184E-07	8.814E-08	6.872E-08	5.547E-08
NW	2.319E-05	7.632E-06	3.995E-06	1.985E-06	8.072E-07	4.408E-07	2.812E-07	1.973E-07	1.476E-07	1.156E-07	9.362E-08
NNW	4.213E-05	1.310E-05	6.815E-06	3.409E-06	1.424E-06	7.917E-07	5.119E-07	3.630E-07	2.739E-07	2.160E-07	1.762E-07
N	9.041E-05	2.733E-05	1.388E-05	6.885E-06	2.917E-06	1.637E-06	1.065E-06	7.596E-07	5.757E-07	4.558E-07	3.729E-07
NNE	5.310E-05	1.631E-05	8.311E-06	4.118E-06	1.731E-06	9.667E-07	6.271E-07	4.459E-07	3.372E-07	2.665E-07	2.177E-07
NE	5.184E-05	1.601E-05	8.180E-06	4.056E-06	1.702E-06	9.495E-07	6.154E-07	4.373E-07	3.305E-07	2.611E-07	2.131E-07
ENE	4.113E-05	1.276E-05	6.545E-06	3.250E-06	1.362E-06	7.593E-07	4.918E-07	3.493E-07	2.639E-07	2.083E-07	1.700E-07
E	3.906E-05	1.213E-05	6.188E-06	3.063E-06	1.284E-06	7.161E-07	4.640E-07	3.296E-07	2.491E-07	1.967E-07	1.606E-07
ESE	3.614E-05	1.181E-05	6.346E-06	3.202E-06	1.305E-06	7.136E-07	4.556E-07	3.198E-07	2.393E-07	1.874E-07	1.519E-07
SE	5.280E-05	1.712E-05	8.883E-06	4.401E-06	1.804E-06	9.907E-07	6.347E-07	4.470E-07	3.353E-07	2.632E-07	2.137E-07
SSE	5.110E-05	1.665E-05	8.668E-06	4.293E-06	1.746E-06	9.535E-07	6.085E-07	4.271E-07	3.196E-07	2.503E-07	2.029E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.812E-07	9.634E-08	6.393E-08	3.791E-08	2.627E-08	1.981E-08	1.574E-08	1.298E-08	1.098E-08	9.485E-09	8.322E-09
SSW	1.033E-07	5.470E-08	3.621E-08	2.142E-08	1.483E-08	1.118E-08	8.885E-09	7.325E-09	6.201E-09	5.356E-09	4.700E-09
SW	4.632E-08	2.406E-08	1.571E-08	9.116E-09	6.223E-09	4.639E-09	3.654E-09	2.989E-09	2.514E-09	2.159E-09	1.885E-09
WSW	2.344E-08	1.211E-08	7.878E-09	4.553E-09	3.105E-09	2.312E-09	1.821E-09	1.489E-09	1.252E-09	1.075E-09	9.382E-10
W	2.781E-08	1.443E-08	9.416E-09	5.452E-09	3.714E-09	2.763E-09	2.172E-09	1.774E-09	1.490E-09	1.278E-09	1.114E-09
WNW	4.600E-08	2.380E-08	1.551E-08	8.971E-09	6.115E-09	4.553E-09	3.583E-09	2.929E-09	2.462E-09	2.113E-09	1.844E-09
NW	7.787E-08	4.078E-08	2.679E-08	1.566E-08	1.075E-08	8.041E-09	6.354E-09	5.212E-09	4.394E-09	3.781E-09	3.307E-09
NNW	1.474E-07	7.881E-08	5.252E-08	3.130E-08	2.176E-08	1.644E-08	1.309E-08	1.080E-08	9.155E-09	7.915E-09	6.950E-09
N	3.128E-07	1.691E-07	1.135E-07	6.836E-08	4.784E-08	3.634E-08	2.906E-08	2.407E-08	2.046E-08	1.773E-08	1.561E-08
NNE	1.824E-07	9.812E-08	6.566E-08	3.937E-08	2.748E-08	2.083E-08	1.663E-08	1.376E-08	1.168E-08	1.012E-08	8.897E-09
NE	1.785E-07	9.586E-08	6.407E-08	3.834E-08	2.673E-08	2.025E-08	1.616E-08	1.336E-08	1.134E-08	9.813E-09	8.627E-09
ENE	1.424E-07	7.638E-08	5.101E-08	3.050E-08	2.125E-08	1.608E-08	1.282E-08	1.060E-08	8.991E-09	7.780E-09	6.838E-09
E	1.344E-07	7.218E-08	4.823E-08	2.886E-08	2.011E-08	1.523E-08	1.215E-08	1.004E-08	8.523E-09	7.377E-09	6.485E-09
ESE	1.263E-07	6.617E-08	4.346E-08	2.539E-08	1.740E-08	1.301E-08	1.027E-08	8.414E-09	7.086E-09	6.092E-09	5.324E-09
SE	1.781E-07	9.400E-08	6.208E-08	3.657E-08	2.523E-08	1.896E-08	1.504E-08	1.237E-08	1.045E-08	9.013E-09	7.898E-09
SSE	1.688E-07	8.859E-08	5.829E-08	3.418E-08	2.352E-08	1.764E-08	1.396E-08	1.147E-08	9.681E-09	8.341E-09	7.303E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	8.512E-06	2.001E-06	6.570E-07	3.434E-07	2.185E-07	1.008E-07	3.852E-08	1.990E-08	1.301E-08	9.498E-09
SSW	5.091E-06	1.165E-06	3.784E-07	1.967E-07	1.248E-07	5.729E-08	2.178E-08	1.124E-08	7.342E-09	5.363E-09
SW	2.423E-06	5.585E-07	1.759E-07	8.980E-08	5.623E-08	2.530E-08	9.296E-09	4.667E-09	2.998E-09	2.163E-09
WSW	1.262E-06	2.882E-07	8.992E-08	4.568E-08	2.850E-08	1.275E-08	4.648E-09	2.327E-09	1.493E-09	1.077E-09
W	1.437E-06	3.353E-07	1.056E-07	5.391E-08	3.376E-08	1.517E-08	5.560E-09	2.780E-09	1.780E-09	1.280E-09
WNW	2.431E-06	5.592E-07	1.754E-07	8.940E-08	5.589E-08	2.505E-08	9.155E-09	4.581E-09	2.938E-09	2.116E-09
NW	3.910E-06	9.060E-07	2.902E-07	1.496E-07	9.429E-08	4.280E-08	1.595E-08	8.088E-09	5.227E-09	3.787E-09
NNW	6.698E-06	1.584E-06	5.269E-07	2.773E-07	1.773E-07	8.236E-08	3.177E-08	1.652E-08	1.083E-08	7.925E-09
N	1.376E-05	3.230E-06	1.095E-06	5.826E-07	3.752E-07	1.764E-07	6.928E-08	3.649E-08	2.412E-08	1.775E-08
NNE	8.224E-06	1.922E-06	6.452E-07	3.413E-07	2.191E-07	1.024E-07	3.993E-08	2.092E-08	1.379E-08	1.013E-08
NE	8.087E-06	1.891E-06	6.333E-07	3.345E-07	2.145E-07	1.001E-07	3.890E-08	2.034E-08	1.339E-08	9.825E-09
ENE	6.461E-06	1.514E-06	5.061E-07	2.671E-07	1.711E-07	7.977E-08	3.094E-08	1.616E-08	1.062E-08	7.790E-09
E	6.119E-06	1.427E-06	4.775E-07	2.521E-07	1.616E-07	7.537E-08	2.927E-08	1.530E-08	1.007E-08	7.386E-09
ESE	6.163E-06	1.464E-06	4.701E-07	2.425E-07	1.529E-07	6.944E-08	2.585E-08	1.308E-08	8.438E-09	6.102E-09
SE	8.722E-06	2.020E-06	6.546E-07	3.397E-07	2.152E-07	9.850E-08	3.720E-08	1.906E-08	1.240E-08	9.026E-09
SSE	8.498E-06	1.960E-06	6.280E-07	3.239E-07	2.043E-07	9.295E-08	3.480E-08	1.774E-08	1.150E-08	8.354E-09

VENTS GROUND LEVEL RELEASES - JAN-MAR 2025
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	5.320E-05	1.657E-05	8.621E-06	4.302E-06	1.773E-06	9.758E-07	6.255E-07	4.401E-07	3.298E-07	2.584E-07	2.094E-07
SSW	3.198E-05	1.007E-05	5.123E-06	2.517E-06	1.029E-06	5.632E-07	3.596E-07	2.523E-07	1.886E-07	1.475E-07	1.193E-07
SW	1.412E-05	4.697E-06	2.470E-06	1.225E-06	4.903E-07	2.646E-07	1.671E-07	1.162E-07	8.626E-08	6.704E-08	5.393E-08
WSW	7.394E-06	2.455E-06	1.285E-06	6.354E-07	2.529E-07	1.359E-07	8.559E-08	5.940E-08	4.400E-08	3.414E-08	2.744E-08
W	7.943E-06	2.750E-06	1.476E-06	7.351E-07	2.941E-07	1.587E-07	1.002E-07	6.973E-08	5.175E-08	4.022E-08	3.236E-08
WNW	1.400E-05	4.713E-06	2.482E-06	1.229E-06	4.912E-07	2.647E-07	1.671E-07	1.161E-07	8.614E-08	6.693E-08	5.383E-08
NW	2.315E-05	7.607E-06	3.976E-06	1.972E-06	7.993E-07	4.349E-07	2.764E-07	1.932E-07	1.440E-07	1.123E-07	9.064E-08
NNW	4.204E-05	1.305E-05	6.777E-06	3.383E-06	1.408E-06	7.794E-07	5.018E-07	3.543E-07	2.663E-07	2.091E-07	1.698E-07
N	9.020E-05	2.721E-05	1.379E-05	6.826E-06	2.879E-06	1.608E-06	1.042E-06	7.393E-07	5.577E-07	4.395E-07	3.578E-07
NNE	5.298E-05	1.623E-05	8.258E-06	4.084E-06	1.709E-06	9.500E-07	6.134E-07	4.341E-07	3.268E-07	2.570E-07	2.090E-07
NE	5.171E-05	1.593E-05	8.125E-06	4.020E-06	1.679E-06	9.322E-07	6.012E-07	4.251E-07	3.197E-07	2.513E-07	2.041E-07
ENE	4.104E-05	1.270E-05	6.504E-06	3.223E-06	1.345E-06	7.462E-07	4.811E-07	3.401E-07	2.557E-07	2.010E-07	1.633E-07
E	3.896E-05	1.207E-05	6.148E-06	3.037E-06	1.268E-06	7.035E-07	4.537E-07	3.208E-07	2.412E-07	1.896E-07	1.540E-07
ESE	3.609E-05	1.178E-05	6.322E-06	3.186E-06	1.295E-06	7.062E-07	4.496E-07	3.148E-07	2.349E-07	1.834E-07	1.482E-07
SE	5.271E-05	1.707E-05	8.842E-06	4.374E-06	1.787E-06	9.778E-07	6.242E-07	4.379E-07	3.273E-07	2.560E-07	2.071E-07
SSE	5.100E-05	1.660E-05	8.625E-06	4.266E-06	1.728E-06	9.404E-07	5.978E-07	4.180E-07	3.116E-07	2.431E-07	1.962E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.741E-07	9.064E-08	5.891E-08	3.353E-08	2.232E-08	1.619E-08	1.239E-08	9.849E-09	8.047E-09	6.715E-09	5.698E-09
SSW	9.902E-08	5.123E-08	3.316E-08	1.875E-08	1.243E-08	8.982E-09	6.853E-09	5.430E-09	4.423E-09	3.681E-09	3.117E-09
SW	4.458E-08	2.269E-08	1.452E-08	8.093E-09	5.311E-09	3.809E-09	2.890E-09	2.279E-09	1.850E-09	1.535E-09	1.296E-09
WSW	2.265E-08	1.148E-08	7.332E-09	4.081E-09	2.682E-09	1.927E-09	1.464E-09	1.157E-09	9.407E-10	7.817E-10	6.610E-10
W	2.674E-08	1.360E-08	8.699E-09	4.841E-09	3.172E-09	2.273E-09	1.722E-09	1.357E-09	1.101E-09	9.127E-10	7.700E-10
WNW	4.447E-08	2.260E-08	1.446E-08	8.070E-09	5.310E-09	3.819E-09	2.907E-09	2.300E-09	1.873E-09	1.559E-09	1.320E-09
NW	7.510E-08	3.857E-08	2.485E-08	1.398E-08	9.231E-09	6.656E-09	5.073E-09	4.018E-09	3.273E-09	2.725E-09	2.308E-09
NNW	1.414E-07	7.406E-08	4.833E-08	2.764E-08	1.846E-08	1.341E-08	1.029E-08	8.189E-09	6.699E-09	5.598E-09	4.757E-09
N	2.988E-07	1.578E-07	1.035E-07	5.958E-08	3.992E-08	2.907E-08	2.232E-08	1.778E-08	1.456E-08	1.217E-08	1.034E-08
NNE	1.743E-07	9.159E-08	5.988E-08	3.430E-08	2.291E-08	1.664E-08	1.275E-08	1.013E-08	8.279E-09	6.908E-09	5.862E-09
NE	1.701E-07	8.911E-08	5.811E-08	3.313E-08	2.204E-08	1.595E-08	1.217E-08	9.645E-09	7.853E-09	6.531E-09	5.524E-09
ENE	1.361E-07	7.133E-08	4.656E-08	2.661E-08	1.774E-08	1.287E-08	9.849E-09	7.823E-09	6.387E-09	5.325E-09	4.515E-09
E	1.284E-07	6.731E-08	4.393E-08	2.510E-08	1.673E-08	1.213E-08	9.284E-09	7.372E-09	6.016E-09	5.015E-09	4.251E-09
ESE	1.230E-07	6.350E-08	4.113E-08	2.338E-08	1.560E-08	1.136E-08	8.746E-09	6.993E-09	5.749E-09	4.829E-09	4.126E-09
SE	1.719E-07	8.904E-08	5.771E-08	3.275E-08	2.179E-08	1.581E-08	1.212E-08	9.647E-09	7.896E-09	6.604E-09	5.618E-09
SSE	1.626E-07	8.365E-08	5.395E-08	3.040E-08	2.013E-08	1.454E-08	1.110E-08	8.799E-09	7.176E-09	5.980E-09	5.070E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	8.468E-06	1.981E-06	6.448E-07	3.341E-07	2.108E-07	9.509E-08	3.419E-08	1.631E-08	9.889E-09	6.733E-09
SSW	5.065E-06	1.153E-06	3.710E-07	1.911E-07	1.201E-07	5.382E-08	1.914E-08	9.051E-09	5.453E-09	3.692E-09
SW	2.411E-06	5.532E-07	1.728E-07	8.750E-08	5.435E-08	2.392E-08	8.285E-09	3.842E-09	2.290E-09	1.540E-09
WSW	1.256E-06	2.859E-07	8.853E-08	4.465E-08	2.765E-08	1.212E-08	4.181E-09	1.943E-09	1.162E-09	7.841E-10
W	1.430E-06	3.320E-07	1.036E-07	5.250E-08	3.261E-08	1.434E-08	4.957E-09	2.292E-09	1.364E-09	9.156E-10
WNW	2.421E-06	5.546E-07	1.727E-07	8.739E-08	5.425E-08	2.385E-08	8.264E-09	3.852E-09	2.310E-09	1.563E-09
NW	3.892E-06	8.980E-07	2.854E-07	1.460E-07	9.131E-08	4.059E-08	1.428E-08	6.710E-09	4.036E-09	2.733E-09
NNW	6.663E-06	1.567E-06	5.168E-07	2.697E-07	1.709E-07	7.760E-08	2.815E-08	1.351E-08	8.221E-09	5.613E-09
N	1.368E-05	3.191E-06	1.072E-06	5.646E-07	3.602E-07	1.650E-07	6.061E-08	2.927E-08	1.785E-08	1.220E-08
NNE	8.175E-06	1.899E-06	6.314E-07	3.309E-07	2.103E-07	9.586E-08	3.492E-08	1.675E-08	1.017E-08	6.927E-09
NE	8.036E-06	1.868E-06	6.190E-07	3.237E-07	2.055E-07	9.333E-08	3.375E-08	1.606E-08	9.685E-09	6.550E-09
ENE	6.423E-06	1.496E-06	4.954E-07	2.590E-07	1.644E-07	7.471E-08	2.710E-08	1.296E-08	7.855E-09	5.340E-09
E	6.082E-06	1.410E-06	4.671E-07	2.443E-07	1.551E-07	7.049E-08	2.557E-08	1.222E-08	7.402E-09	5.028E-09
ESE	6.141E-06	1.454E-06	4.641E-07	2.381E-07	1.493E-07	6.677E-08	2.387E-08	1.145E-08	7.020E-09	4.841E-09
SE	8.684E-06	2.002E-06	6.440E-07	3.317E-07	2.085E-07	9.353E-08	3.343E-08	1.593E-08	9.686E-09	6.622E-09
SSE	8.459E-06	1.942E-06	6.172E-07	3.159E-07	1.977E-07	8.800E-08	3.107E-08	1.465E-08	8.837E-09	5.998E-09

VENTS GROUND LEVEL RELEASES - JAN-MAR 2025
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	5.042E-05	1.517E-05	7.712E-06	3.785E-06	1.518E-06	8.169E-07	5.137E-07	3.555E-07	2.624E-07	2.029E-07	1.624E-07
SSW	3.031E-05	9.223E-06	4.584E-06	2.215E-06	8.811E-07	4.717E-07	2.956E-07	2.040E-07	1.502E-07	1.159E-07	9.266E-08
SW	1.338E-05	4.300E-06	2.209E-06	1.077E-06	4.196E-07	2.214E-07	1.372E-07	9.381E-08	6.858E-08	5.259E-08	4.179E-08
WSW	7.006E-06	2.247E-06	1.149E-06	5.585E-07	2.162E-07	1.136E-07	7.013E-08	4.785E-08	3.491E-08	2.672E-08	2.120E-08
W	7.528E-06	2.518E-06	1.320E-06	6.469E-07	2.518E-07	1.328E-07	8.232E-08	5.631E-08	4.117E-08	3.157E-08	2.509E-08
WNW	1.326E-05	4.314E-06	2.219E-06	1.081E-06	4.199E-07	2.212E-07	1.369E-07	9.354E-08	6.833E-08	5.236E-08	4.158E-08
NW	2.193E-05	6.963E-06	3.555E-06	1.734E-06	6.836E-07	3.636E-07	2.267E-07	1.558E-07	1.144E-07	8.799E-08	7.013E-08
NNW	3.985E-05	1.195E-05	6.064E-06	2.977E-06	1.205E-06	6.526E-07	4.123E-07	2.863E-07	2.120E-07	1.643E-07	1.318E-07
N	8.551E-05	2.493E-05	1.234E-05	6.012E-06	2.468E-06	1.348E-06	8.575E-07	5.987E-07	4.452E-07	3.463E-07	2.786E-07
NNE	5.022E-05	1.487E-05	7.393E-06	3.596E-06	1.465E-06	7.965E-07	5.048E-07	3.515E-07	2.608E-07	2.025E-07	1.626E-07
NE	4.903E-05	1.460E-05	7.275E-06	3.542E-06	1.440E-06	7.822E-07	4.952E-07	3.445E-07	2.554E-07	1.982E-07	1.592E-07
ENE	3.890E-05	1.163E-05	5.822E-06	2.838E-06	1.153E-06	6.256E-07	3.959E-07	2.753E-07	2.041E-07	1.583E-07	1.271E-07
E	3.694E-05	1.106E-05	5.504E-06	2.675E-06	1.087E-06	5.900E-07	3.734E-07	2.598E-07	1.926E-07	1.494E-07	1.200E-07
ESE	3.419E-05	1.078E-05	5.649E-06	2.799E-06	1.106E-06	5.892E-07	3.677E-07	2.529E-07	1.857E-07	1.430E-07	1.140E-07
SE	4.995E-05	1.562E-05	7.906E-06	3.845E-06	1.528E-06	8.173E-07	5.117E-07	3.530E-07	2.598E-07	2.004E-07	1.601E-07
SSE	4.833E-05	1.519E-05	7.713E-06	3.751E-06	1.478E-06	7.865E-07	4.904E-07	3.372E-07	2.476E-07	1.905E-07	1.519E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.336E-07	6.673E-08	4.194E-08	2.273E-08	1.461E-08	1.031E-08	7.712E-09	6.010E-09	4.826E-09	3.965E-09	3.316E-09
SSW	7.609E-08	3.784E-08	2.371E-08	1.280E-08	8.214E-09	5.786E-09	4.324E-09	3.366E-09	2.700E-09	2.216E-09	1.852E-09
SW	3.415E-08	1.667E-08	1.032E-08	5.473E-09	3.466E-09	2.418E-09	1.793E-09	1.387E-09	1.107E-09	9.041E-10	7.525E-10
WSW	1.730E-08	8.404E-09	5.183E-09	2.741E-09	1.735E-09	1.210E-09	8.976E-10	6.946E-10	5.543E-10	4.530E-10	3.772E-10
W	2.050E-08	1.000E-08	6.182E-09	3.274E-09	2.069E-09	1.441E-09	1.067E-09	8.244E-10	6.570E-10	5.362E-10	4.459E-10
WNW	3.396E-08	1.653E-08	1.021E-08	5.406E-09	3.423E-09	2.388E-09	1.771E-09	1.371E-09	1.094E-09	8.942E-10	7.448E-10
NW	5.745E-08	2.829E-08	1.761E-08	9.415E-09	5.995E-09	4.200E-09	3.125E-09	2.425E-09	1.940E-09	1.588E-09	1.325E-09
NNW	1.086E-07	5.457E-08	3.444E-08	1.876E-08	1.209E-08	8.548E-09	6.407E-09	5.000E-09	4.019E-09	3.305E-09	2.767E-09
N	2.301E-07	1.169E-07	7.426E-08	4.081E-08	2.646E-08	1.878E-08	1.412E-08	1.105E-08	8.899E-09	7.330E-09	6.145E-09
NNE	1.342E-07	6.781E-08	4.294E-08	2.350E-08	1.519E-08	1.076E-08	8.076E-09	6.309E-09	5.075E-09	4.175E-09	3.496E-09
NE	1.312E-07	6.617E-08	4.183E-08	2.284E-08	1.473E-08	1.042E-08	7.808E-09	6.091E-09	4.894E-09	4.021E-09	3.363E-09
ENE	1.048E-07	5.279E-08	3.337E-08	1.821E-08	1.175E-08	8.314E-09	6.234E-09	4.866E-09	3.911E-09	3.216E-09	2.692E-09
E	9.890E-08	4.987E-08	3.153E-08	1.722E-08	1.111E-08	7.863E-09	5.896E-09	4.602E-09	3.700E-09	3.042E-09	2.546E-09
ESE	9.344E-08	4.610E-08	2.873E-08	1.541E-08	9.835E-09	6.908E-09	5.155E-09	4.010E-09	3.217E-09	2.642E-09	2.210E-09
SE	1.314E-07	6.523E-08	4.082E-08	2.201E-08	1.410E-08	9.921E-09	7.412E-09	5.770E-09	4.629E-09	3.800E-09	3.178E-09
SSE	1.245E-07	6.142E-08	3.828E-08	2.053E-08	1.310E-08	9.198E-09	6.856E-09	5.327E-09	4.266E-09	3.497E-09	2.919E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	7.625E-06	1.710E-06	5.313E-07	2.664E-07	1.637E-07	7.056E-08	2.339E-08	1.042E-08	6.045E-09	3.980E-09
SSW	4.562E-06	9.956E-07	3.059E-07	1.525E-07	9.342E-08	4.006E-08	1.319E-08	5.848E-09	3.386E-09	2.224E-09
SW	2.171E-06	4.777E-07	1.423E-07	6.970E-08	4.216E-08	1.773E-08	5.657E-09	2.447E-09	1.396E-09	9.079E-10
WSW	1.130E-06	2.466E-07	7.280E-08	3.549E-08	2.139E-08	8.950E-09	2.836E-09	1.225E-09	6.992E-10	4.550E-10
W	1.287E-06	2.867E-07	8.539E-08	4.184E-08	2.531E-08	1.064E-08	3.385E-09	1.459E-09	8.299E-10	5.385E-10
WNW	2.178E-06	4.784E-07	1.420E-07	6.945E-08	4.195E-08	1.759E-08	5.592E-09	2.417E-09	1.380E-09	8.981E-10
NW	3.503E-06	7.748E-07	2.349E-07	1.162E-07	7.073E-08	3.002E-08	9.715E-09	4.249E-09	2.440E-09	1.595E-09
NNW	6.000E-06	1.353E-06	4.260E-07	2.151E-07	1.328E-07	5.762E-08	1.928E-08	8.636E-09	5.028E-09	3.317E-09
N	1.233E-05	2.758E-06	8.849E-07	4.514E-07	2.807E-07	1.231E-07	4.186E-08	1.897E-08	1.111E-08	7.356E-09
NNE	7.367E-06	1.641E-06	5.212E-07	2.645E-07	1.639E-07	7.150E-08	2.413E-08	1.087E-08	6.344E-09	4.190E-09
NE	7.243E-06	1.615E-06	5.115E-07	2.591E-07	1.604E-07	6.981E-08	2.346E-08	1.053E-08	6.126E-09	4.036E-09
ENE	5.788E-06	1.293E-06	4.089E-07	2.070E-07	1.281E-07	5.571E-08	1.871E-08	8.399E-09	4.893E-09	3.228E-09
E	5.481E-06	1.219E-06	3.857E-07	1.953E-07	1.209E-07	5.261E-08	1.769E-08	7.943E-09	4.628E-09	3.053E-09
ESE	5.522E-06	1.253E-06	3.808E-07	1.886E-07	1.150E-07	4.890E-08	1.589E-08	6.987E-09	4.035E-09	2.652E-09
SE	7.816E-06	1.727E-06	5.297E-07	2.638E-07	1.614E-07	6.909E-08	2.267E-08	1.003E-08	5.804E-09	3.815E-09
SSE	7.615E-06	1.676E-06	5.081E-07	2.514E-07	1.532E-07	6.515E-08	2.117E-08	9.303E-09	5.360E-09	3.511E-09

VENTS GROUND LEVEL RELEASES - JAN-MAR 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	2.246E-07	7.596E-08	3.900E-08	1.854E-08	6.660E-09	3.303E-09	1.945E-09	1.273E-09	8.961E-10	6.641E-10	5.117E-10
SSW	1.623E-07	5.488E-08	2.818E-08	1.340E-08	4.812E-09	2.387E-09	1.405E-09	9.201E-10	6.475E-10	4.798E-10	3.698E-10
SW	6.214E-08	2.101E-08	1.079E-08	5.129E-09	1.842E-09	9.136E-10	5.380E-10	3.523E-10	2.479E-10	1.837E-10	1.416E-10
WSW	3.696E-08	1.250E-08	6.417E-09	3.051E-09	1.096E-09	5.434E-10	3.200E-10	2.095E-10	1.474E-10	1.093E-10	8.420E-11
W	2.522E-08	8.527E-09	4.378E-09	2.081E-09	7.477E-10	3.708E-10	2.183E-10	1.430E-10	1.006E-10	7.455E-11	5.745E-11
WNW	5.984E-08	2.024E-08	1.039E-08	4.940E-09	1.774E-09	8.799E-10	5.181E-10	3.393E-10	2.387E-10	1.769E-10	1.363E-10
NW	9.801E-08	3.314E-08	1.702E-08	8.090E-09	2.906E-09	1.441E-09	8.485E-10	5.556E-10	3.910E-10	2.897E-10	2.233E-10
NNW	1.433E-07	4.847E-08	2.489E-08	1.183E-08	4.250E-09	2.108E-09	1.241E-09	8.126E-10	5.718E-10	4.237E-10	3.265E-10
N	2.421E-07	8.186E-08	4.203E-08	1.998E-08	7.178E-09	3.560E-09	2.096E-09	1.372E-09	9.657E-10	7.157E-10	5.515E-10
NNE	1.786E-07	6.041E-08	3.102E-08	1.475E-08	5.297E-09	2.627E-09	1.547E-09	1.013E-09	7.126E-10	5.281E-10	4.070E-10
NE	1.399E-07	4.730E-08	2.428E-08	1.154E-08	4.147E-09	2.057E-09	1.211E-09	7.929E-10	5.579E-10	4.135E-10	3.186E-10
ENE	1.078E-07	3.646E-08	1.872E-08	8.900E-09	3.197E-09	1.585E-09	9.335E-10	6.113E-10	4.301E-10	3.188E-10	2.456E-10
E	9.373E-08	3.170E-08	1.627E-08	7.737E-09	2.779E-09	1.378E-09	8.115E-10	5.314E-10	3.739E-10	2.771E-10	2.135E-10
ESE	1.619E-07	5.473E-08	2.810E-08	1.336E-08	4.799E-09	2.380E-09	1.401E-09	9.176E-10	6.456E-10	4.785E-10	3.687E-10
SE	2.817E-07	9.526E-08	4.891E-08	2.325E-08	8.352E-09	4.142E-09	2.439E-09	1.597E-09	1.124E-09	8.328E-10	6.418E-10
SSE	2.979E-07	1.007E-07	5.173E-08	2.459E-08	8.833E-09	4.381E-09	2.579E-09	1.689E-09	1.188E-09	8.807E-10	6.787E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	4.065E-10	1.806E-10	1.094E-10	5.530E-11	3.347E-11	2.244E-11	1.608E-11	1.207E-11	9.388E-12	7.499E-12	6.121E-12
SSW	2.938E-10	1.305E-10	7.905E-11	3.995E-11	2.418E-11	1.621E-11	1.162E-11	8.724E-12	6.783E-12	5.418E-12	4.423E-12
SW	1.125E-10	4.996E-11	3.026E-11	1.530E-11	9.258E-12	6.207E-12	4.448E-12	3.340E-12	2.597E-12	2.074E-12	1.693E-12
WSW	6.689E-11	2.972E-11	1.800E-11	9.098E-12	5.507E-12	3.692E-12	2.646E-12	1.987E-12	1.545E-12	1.234E-12	1.007E-12
W	4.564E-11	2.027E-11	1.228E-11	6.208E-12	3.757E-12	2.519E-12	1.805E-12	1.355E-12	1.054E-12	8.418E-13	6.871E-13
WNW	1.083E-10	4.811E-11	2.914E-11	1.473E-11	8.916E-12	5.978E-12	4.284E-12	3.216E-12	2.501E-12	1.998E-12	1.631E-12
NW	1.774E-10	7.880E-11	4.773E-11	2.413E-11	1.460E-11	9.791E-12	7.016E-12	5.268E-12	4.096E-12	3.272E-12	2.671E-12
NNW	2.594E-10	1.152E-10	6.981E-11	3.529E-11	2.136E-11	1.432E-11	1.026E-11	7.704E-12	5.990E-12	4.785E-12	3.906E-12
N	4.382E-10	1.946E-10	1.179E-10	5.960E-11	3.607E-11	2.418E-11	1.733E-11	1.301E-11	1.012E-11	8.082E-12	6.597E-12
NNE	3.233E-10	1.436E-10	8.701E-11	4.398E-11	2.662E-11	1.785E-11	1.279E-11	9.602E-12	7.466E-12	5.964E-12	4.868E-12
NE	2.531E-10	1.125E-10	6.812E-11	3.443E-11	2.084E-11	1.397E-11	1.001E-11	7.518E-12	5.845E-12	4.669E-12	3.811E-12
ENE	1.951E-10	8.669E-11	5.251E-11	2.654E-11	1.607E-11	1.077E-11	7.718E-12	5.796E-12	4.506E-12	3.600E-12	2.938E-12
E	1.696E-10	7.536E-11	4.565E-11	2.307E-11	1.397E-11	9.364E-12	6.710E-12	5.038E-12	3.917E-12	3.129E-12	2.554E-12
ESE	2.929E-10	1.301E-10	7.883E-11	3.984E-11	2.412E-11	1.617E-11	1.159E-11	8.700E-12	6.764E-12	5.403E-12	4.410E-12
SE	5.098E-10	2.265E-10	1.372E-10	6.935E-11	4.197E-11	2.814E-11	2.016E-11	1.514E-11	1.177E-11	9.404E-12	7.676E-12
SSE	5.392E-10	2.395E-10	1.451E-10	7.334E-11	4.439E-11	2.976E-11	2.133E-11	1.601E-11	1.245E-11	9.946E-12	8.118E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.812E-08	7.808E-09	2.038E-09	9.155E-10	5.179E-10	1.992E-10	5.762E-11	2.284E-11	1.219E-11	7.548E-12
SSW	2.754E-08	5.642E-09	1.473E-09	6.615E-10	3.742E-10	1.439E-10	4.163E-11	1.650E-11	8.811E-12	5.454E-12
SW	1.054E-08	2.160E-09	5.639E-10	2.532E-10	1.433E-10	5.509E-11	1.594E-11	6.317E-12	3.373E-12	2.088E-12
WSW	6.272E-09	1.285E-09	3.354E-10	1.506E-10	8.521E-11	3.277E-11	9.480E-12	3.757E-12	2.006E-12	1.242E-12
W	4.279E-09	8.766E-10	2.288E-10	1.028E-10	5.814E-11	2.236E-11	6.468E-12	2.564E-12	1.369E-12	8.474E-13
WNW	1.016E-08	2.080E-09	5.430E-10	2.439E-10	1.380E-10	5.306E-11	1.535E-11	6.084E-12	3.249E-12	2.011E-12
NW	1.663E-08	3.407E-09	8.894E-10	3.994E-10	2.260E-10	8.690E-11	2.514E-11	9.964E-12	5.321E-12	3.293E-12
NNW	2.433E-08	4.983E-09	1.301E-09	5.842E-10	3.305E-10	1.271E-10	3.677E-11	1.457E-11	7.782E-12	4.817E-12
N	4.108E-08	8.415E-09	2.197E-09	9.867E-10	5.582E-10	2.147E-10	6.210E-11	2.461E-11	1.314E-11	8.135E-12
NNE	3.032E-08	6.210E-09	1.621E-09	7.281E-10	4.119E-10	1.584E-10	4.582E-11	1.816E-11	9.698E-12	6.003E-12
NE	2.374E-08	4.862E-09	1.269E-09	5.700E-10	3.225E-10	1.240E-10	3.588E-11	1.422E-11	7.593E-12	4.700E-12
ENE	1.830E-08	3.748E-09	9.785E-10	4.395E-10	2.486E-10	9.560E-11	2.766E-11	1.096E-11	5.854E-12	3.623E-12
E	1.591E-08	3.258E-09	8.506E-10	3.820E-10	2.161E-10	8.311E-11	2.404E-11	9.529E-12	5.089E-12	3.150E-12
ESE	2.747E-08	5.626E-09	1.469E-09	6.597E-10	3.732E-10	1.435E-10	4.152E-11	1.645E-11	8.787E-12	5.439E-12
SE	4.781E-08	9.792E-09	2.556E-09	1.148E-09	6.495E-10	2.498E-10	7.226E-11	2.864E-11	1.529E-11	9.466E-12
SSE	5.056E-08	1.036E-08	2.703E-09	1.214E-09	6.869E-10	2.641E-10	7.642E-11	3.029E-11	1.617E-11	1.001E-11

VENTS GROUND LEVEL RELEASES - JAN-MAR 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.26 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.0 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	7.4E-06	7.4E-06	6.6E-06	3.3E-08
A	Site Boundary	SSW	.82	4.1E-06	4.1E-06	3.6E-06	2.2E-08
A	Site Boundary	SW	.97	1.3E-06	1.3E-06	1.1E-06	5.5E-09
A	Site Boundary	WSW	.93	7.7E-07	7.7E-07	6.8E-07	3.7E-09
A	Site Boundary	W	.91	9.2E-07	9.2E-07	8.1E-07	2.6E-09
A	Site Boundary	WNW	.94	1.4E-06	1.4E-06	1.3E-06	5.8E-09
A	Site Boundary	NW	.81	3.3E-06	3.3E-06	2.9E-06	1.4E-08
A	Site Boundary	NNW	.69	7.8E-06	7.8E-06	7.0E-06	2.9E-08
A	Site Boundary	N	.67	1.6E-05	1.6E-05	1.5E-05	5.0E-08
A	Site Boundary	NNE	.60	1.2E-05	1.2E-05	1.1E-05	4.5E-08
A	Site Boundary	NE	.62	1.1E-05	1.1E-05	9.9E-06	3.3E-08
A	Site Boundary	ENE	.59	9.8E-06	9.7E-06	8.8E-06	2.8E-08
A	Site Boundary	E	.53	1.1E-05	1.1E-05	1.0E-05	2.9E-08
A	Site Boundary	ESE	.54	1.1E-05	1.0E-05	9.6E-06	4.9E-08
A	Site Boundary	SE	.65	1.1E-05	1.1E-05	1.0E-05	6.2E-08
A	Site Boundary	SSE	.81	7.1E-06	7.1E-06	6.3E-06	4.2E-08
A	Nearest Res	SW	1.30	6.8E-07	6.7E-07	5.8E-07	2.6E-09
A	Nearest Res	WSW	1.90	1.5E-07	1.5E-07	1.3E-07	6.2E-10
A	Nearest Res	WNW	2.50	1.7E-07	1.7E-07	1.4E-07	5.2E-10
A	Nearest Res	NW	1.20	1.3E-06	1.3E-06	1.1E-06	5.1E-09
A	Nearest Res	NNW	2.00	7.9E-07	7.8E-07	6.5E-07	2.1E-09
A	Nearest Res	NE	1.70	1.3E-06	1.3E-06	1.1E-06	3.1E-09
A	Nearest Res	E	1.90	7.9E-07	7.8E-07	6.6E-07	1.6E-09
A	Nearest Cow	NNW	3.50	2.7E-07	2.7E-07	2.1E-07	5.7E-10
A	Nearest Garde	SW	2.20	2.2E-07	2.2E-07	1.8E-07	7.3E-10
A	Nearest Garde	WSW	2.50	8.7E-08	8.6E-08	7.0E-08	3.2E-10
A	Nearest Garde	WNW	2.70	1.5E-07	1.4E-07	1.2E-07	4.3E-10
A	Nearest Garde	NNW	2.70	4.4E-07	4.3E-07	3.5E-07	1.0E-09
A	Nearest Garde	ENE	1.70	1.1E-06	1.0E-06	8.8E-07	2.4E-09
A	Nearest Garde	E	1.90	7.9E-07	7.8E-07	6.6E-07	1.6E-09
A	Nearest Garde	ESE	2.20	5.9E-07	5.8E-07	4.8E-07	1.9E-09
A	Nearest Garde	SE	1.90	1.1E-06	1.1E-06	9.1E-07	4.7E-09

Atmospheric Diffusion Estimates

Ground Level Releases

April-June 2025

VENTS GROUND LEVEL RELEASES - APR-JUN 2025
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	6.693E-05	2.142E-05	1.150E-05	5.807E-06	2.365E-06	1.292E-06	8.250E-07	5.791E-07	4.334E-07	3.394E-07	2.751E-07
SSW	3.356E-05	1.121E-05	6.144E-06	3.110E-06	1.235E-06	6.629E-07	4.175E-07	2.900E-07	2.150E-07	1.671E-07	1.345E-07
SW	2.136E-05	7.159E-06	3.811E-06	1.889E-06	7.414E-07	3.955E-07	2.480E-07	1.717E-07	1.270E-07	9.855E-08	7.921E-08
WSW	1.687E-05	5.811E-06	3.151E-06	1.576E-06	6.152E-07	3.266E-07	2.039E-07	1.406E-07	1.037E-07	8.018E-08	6.425E-08
W	1.607E-05	5.378E-06	2.846E-06	1.409E-06	5.533E-07	2.951E-07	1.850E-07	1.280E-07	9.466E-08	7.340E-08	5.897E-08
WNW	1.652E-05	5.676E-06	2.998E-06	1.478E-06	5.758E-07	3.054E-07	1.905E-07	1.313E-07	9.680E-08	7.483E-08	5.996E-08
NW	2.594E-05	9.099E-06	4.846E-06	2.398E-06	9.314E-07	4.923E-07	3.063E-07	2.106E-07	1.548E-07	1.194E-07	9.546E-08
NNW	2.993E-05	9.900E-06	5.255E-06	2.623E-06	1.056E-06	5.726E-07	3.634E-07	2.540E-07	1.893E-07	1.478E-07	1.194E-07
N	6.852E-05	2.152E-05	1.128E-05	5.653E-06	2.349E-06	1.301E-06	8.394E-07	5.941E-07	4.476E-07	3.526E-07	2.872E-07
NNE	6.161E-05	1.884E-05	9.727E-06	4.855E-06	2.035E-06	1.134E-06	7.343E-07	5.215E-07	3.940E-07	3.111E-07	2.539E-07
NE	4.396E-05	1.335E-05	6.831E-06	3.398E-06	1.434E-06	8.028E-07	5.217E-07	3.715E-07	2.812E-07	2.224E-07	1.818E-07
ENE	3.601E-05	1.075E-05	5.427E-06	2.692E-06	1.149E-06	6.482E-07	4.235E-07	3.028E-07	2.300E-07	1.824E-07	1.495E-07
E	2.990E-05	9.282E-06	4.824E-06	2.412E-06	1.008E-06	5.605E-07	3.624E-07	2.570E-07	1.940E-07	1.530E-07	1.248E-07
ESE	6.348E-05	1.905E-05	9.645E-06	4.785E-06	2.035E-06	1.145E-06	7.463E-07	5.328E-07	4.043E-07	3.204E-07	2.623E-07
SE	7.593E-05	2.315E-05	1.183E-05	5.875E-06	2.474E-06	1.384E-06	8.984E-07	6.393E-07	4.838E-07	3.826E-07	3.126E-07
SSE	1.061E-04	3.220E-05	1.661E-05	8.303E-06	3.492E-06	1.950E-06	1.265E-06	8.993E-07	6.800E-07	5.373E-07	4.388E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.289E-07	1.201E-07	7.896E-08	4.623E-08	3.177E-08	2.379E-08	1.881E-08	1.543E-08	1.301E-08	1.119E-08	9.790E-09
SSW	1.113E-07	5.707E-08	3.694E-08	2.116E-08	1.433E-08	1.061E-08	8.312E-09	6.766E-09	5.665E-09	4.846E-09	4.215E-09
SW	6.550E-08	3.365E-08	2.181E-08	1.254E-08	8.523E-09	6.330E-09	4.972E-09	4.057E-09	3.404E-09	2.918E-09	2.543E-09
WSW	5.296E-08	2.685E-08	1.723E-08	9.753E-09	6.544E-09	4.812E-09	3.748E-09	3.037E-09	2.532E-09	2.158E-09	1.871E-09
W	4.871E-08	2.488E-08	1.607E-08	9.205E-09	6.255E-09	4.646E-09	3.649E-09	2.978E-09	2.499E-09	2.142E-09	1.868E-09
WNW	4.940E-08	2.497E-08	1.601E-08	9.070E-09	6.115E-09	4.515E-09	3.529E-09	2.868E-09	2.399E-09	2.050E-09	1.782E-09
NW	7.850E-08	3.935E-08	2.506E-08	1.404E-08	9.361E-09	6.851E-09	5.316E-09	4.295E-09	3.572E-09	3.038E-09	2.630E-09
NNW	9.916E-08	5.157E-08	3.371E-08	1.958E-08	1.338E-08	9.977E-09	7.863E-09	6.434E-09	5.412E-09	4.649E-09	4.060E-09
N	2.400E-07	1.279E-07	8.506E-08	5.054E-08	3.505E-08	2.644E-08	2.103E-08	1.734E-08	1.468E-08	1.268E-08	1.112E-08
NNE	2.126E-07	1.141E-07	7.626E-08	4.563E-08	3.181E-08	2.409E-08	1.922E-08	1.589E-08	1.348E-08	1.167E-08	1.026E-08
NE	1.524E-07	8.223E-08	5.511E-08	3.311E-08	2.314E-08	1.756E-08	1.403E-08	1.161E-08	9.864E-09	8.545E-09	7.517E-09
ENE	1.256E-07	6.821E-08	4.593E-08	2.776E-08	1.948E-08	1.483E-08	1.187E-08	9.847E-09	8.378E-09	7.268E-09	6.402E-09
E	1.044E-07	5.585E-08	3.722E-08	2.219E-08	1.543E-08	1.166E-08	9.285E-09	7.665E-09	6.496E-09	5.616E-09	4.932E-09
ESE	2.202E-07	1.193E-07	8.020E-08	4.838E-08	3.391E-08	2.578E-08	2.063E-08	1.710E-08	1.454E-08	1.261E-08	1.110E-08
SE	2.621E-07	1.412E-07	9.462E-08	5.682E-08	3.972E-08	3.014E-08	2.408E-08	1.994E-08	1.694E-08	1.467E-08	1.291E-08
SSE	3.676E-07	1.977E-07	1.322E-07	7.920E-08	5.526E-08	4.187E-08	3.341E-08	2.763E-08	2.345E-08	2.030E-08	1.785E-08

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.117E-05	2.653E-06	8.513E-07	4.392E-07	2.770E-07	1.260E-07	4.707E-08	2.392E-08	1.547E-08	1.121E-08
SSW	5.921E-06	1.397E-06	4.320E-07	2.182E-07	1.356E-07	6.017E-08	2.163E-08	1.068E-08	6.788E-09	4.855E-09
SW	3.701E-06	8.428E-07	2.568E-07	1.290E-07	7.986E-08	3.547E-08	1.282E-08	6.372E-09	4.070E-09	2.923E-09
WSW	3.042E-06	7.004E-07	2.113E-07	1.053E-07	6.479E-08	2.838E-08	9.989E-09	4.848E-09	3.048E-09	2.163E-09
W	2.770E-06	6.288E-07	1.916E-07	9.609E-08	5.944E-08	2.626E-08	9.420E-09	4.676E-09	2.987E-09	2.146E-09
WNW	2.917E-06	6.560E-07	1.975E-07	9.830E-08	6.046E-08	2.642E-08	9.298E-09	4.547E-09	2.878E-09	2.054E-09
NW	4.703E-06	1.062E-06	3.176E-07	1.573E-07	9.627E-08	4.170E-08	1.441E-08	6.906E-09	4.311E-09	3.045E-09
NNW	5.118E-06	1.189E-06	3.754E-07	1.920E-07	1.203E-07	5.420E-08	1.996E-08	1.004E-08	6.453E-09	4.657E-09
N	1.106E-05	2.618E-06	8.645E-07	4.533E-07	2.891E-07	1.338E-07	5.133E-08	2.657E-08	1.738E-08	1.270E-08
NNE	9.586E-06	2.261E-06	7.557E-07	3.988E-07	2.556E-07	1.192E-07	4.629E-08	2.420E-08	1.592E-08	1.168E-08
NE	6.754E-06	1.590E-06	5.366E-07	2.846E-07	1.830E-07	8.578E-08	3.357E-08	1.764E-08	1.164E-08	8.555E-09
ENE	5.393E-06	1.269E-06	4.351E-07	2.327E-07	1.504E-07	7.106E-08	2.812E-08	1.489E-08	9.866E-09	7.276E-09
E	4.742E-06	1.121E-06	3.731E-07	1.964E-07	1.256E-07	5.836E-08	2.252E-08	1.171E-08	7.683E-09	5.624E-09
ESE	9.574E-06	2.250E-06	7.671E-07	4.090E-07	2.639E-07	1.243E-07	4.902E-08	2.589E-08	1.713E-08	1.263E-08
SE	1.170E-05	2.745E-06	9.241E-07	4.897E-07	3.146E-07	1.474E-07	5.762E-08	3.027E-08	1.998E-08	1.469E-08
SSE	1.638E-05	3.876E-06	1.301E-06	6.883E-07	4.416E-07	2.063E-07	8.034E-08	4.206E-08	2.769E-08	2.033E-08

VENTS GROUND LEVEL RELEASES - APR-JUN 2025
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	6.680E-05	2.134E-05	1.143E-05	5.764E-06	2.338E-06	1.272E-06	8.089E-07	5.655E-07	4.214E-07	3.287E-07	2.653E-07
SSW	3.352E-05	1.118E-05	6.119E-06	3.093E-06	1.224E-06	6.555E-07	4.116E-07	2.850E-07	2.108E-07	1.633E-07	1.311E-07
SW	2.133E-05	7.139E-06	3.796E-06	1.879E-06	7.351E-07	3.910E-07	2.444E-07	1.687E-07	1.244E-07	9.623E-08	7.710E-08
WSW	1.685E-05	5.797E-06	3.139E-06	1.568E-06	6.107E-07	3.234E-07	2.014E-07	1.386E-07	1.019E-07	7.858E-08	6.281E-08
W	1.605E-05	5.363E-06	2.834E-06	1.401E-06	5.485E-07	2.916E-07	1.822E-07	1.257E-07	9.261E-08	7.157E-08	5.730E-08
WNW	1.650E-05	5.661E-06	2.987E-06	1.470E-06	5.713E-07	3.021E-07	1.879E-07	1.292E-07	9.491E-08	7.315E-08	5.843E-08
NW	2.591E-05	9.082E-06	4.833E-06	2.389E-06	9.260E-07	4.885E-07	3.032E-07	2.080E-07	1.526E-07	1.174E-07	9.367E-08
NNW	2.988E-05	9.870E-06	5.231E-06	2.608E-06	1.046E-06	5.655E-07	3.576E-07	2.491E-07	1.850E-07	1.439E-07	1.159E-07
N	6.836E-05	2.143E-05	1.121E-05	5.607E-06	2.319E-06	1.279E-06	8.211E-07	5.785E-07	4.338E-07	3.401E-07	2.757E-07
NNE	6.144E-05	1.874E-05	9.655E-06	4.807E-06	2.004E-06	1.111E-06	7.155E-07	5.054E-07	3.797E-07	2.982E-07	2.421E-07
NE	4.383E-05	1.328E-05	6.777E-06	3.363E-06	1.412E-06	7.858E-07	5.078E-07	3.595E-07	2.706E-07	2.129E-07	1.730E-07
ENE	3.590E-05	1.068E-05	5.379E-06	2.661E-06	1.129E-06	6.329E-07	4.110E-07	2.920E-07	2.205E-07	1.738E-07	1.415E-07
E	2.982E-05	9.234E-06	4.787E-06	2.388E-06	9.925E-07	5.490E-07	3.530E-07	2.490E-07	1.869E-07	1.466E-07	1.189E-07
ESE	6.329E-05	1.894E-05	9.561E-06	4.730E-06	1.999E-06	1.118E-06	7.244E-07	5.140E-07	3.876E-07	3.053E-07	2.484E-07
SE	7.571E-05	2.302E-05	1.173E-05	5.812E-06	2.434E-06	1.353E-06	8.736E-07	6.181E-07	4.651E-07	3.656E-07	2.970E-07
SSE	1.058E-04	3.203E-05	1.648E-05	8.216E-06	3.436E-06	1.908E-06	1.230E-06	8.697E-07	6.539E-07	5.137E-07	4.171E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.198E-07	1.130E-07	7.275E-08	4.090E-08	2.701E-08	1.946E-08	1.482E-08	1.173E-08	9.541E-09	7.933E-09	6.709E-09
SSW	1.081E-07	5.465E-08	3.486E-08	1.941E-08	1.278E-08	9.208E-09	7.021E-09	5.567E-09	4.542E-09	3.787E-09	3.213E-09
SW	6.355E-08	3.214E-08	2.052E-08	1.144E-08	7.542E-09	5.439E-09	4.151E-09	3.293E-09	2.688E-09	2.243E-09	1.904E-09
WSW	5.165E-08	2.585E-08	1.638E-08	9.043E-09	5.920E-09	4.249E-09	3.231E-09	2.557E-09	2.083E-09	1.735E-09	1.471E-09
W	4.717E-08	2.369E-08	1.504E-08	8.326E-09	5.473E-09	3.935E-09	2.995E-09	2.370E-09	1.930E-09	1.607E-09	1.362E-09
WNW	4.799E-08	2.389E-08	1.507E-08	8.277E-09	5.412E-09	3.877E-09	2.943E-09	2.324E-09	1.890E-09	1.572E-09	1.331E-09
NW	7.685E-08	3.809E-08	2.397E-08	1.312E-08	8.547E-09	6.115E-09	4.640E-09	3.668E-09	2.986E-09	2.488E-09	2.110E-09
NNW	9.587E-08	4.897E-08	3.144E-08	1.762E-08	1.163E-08	8.388E-09	6.397E-09	5.072E-09	4.138E-09	3.450E-09	2.927E-09
N	2.294E-07	1.194E-07	7.759E-08	4.404E-08	2.923E-08	2.112E-08	1.612E-08	1.277E-08	1.040E-08	8.654E-09	7.326E-09
NNE	2.016E-07	1.053E-07	6.851E-08	3.888E-08	2.576E-08	1.857E-08	1.412E-08	1.115E-08	9.047E-09	7.499E-09	6.324E-09
NE	1.443E-07	7.566E-08	4.932E-08	2.806E-08	1.861E-08	1.342E-08	1.021E-08	8.058E-09	6.539E-09	5.419E-09	4.568E-09
ENE	1.182E-07	6.225E-08	4.067E-08	2.317E-08	1.535E-08	1.105E-08	8.388E-09	6.606E-09	5.348E-09	4.421E-09	3.718E-09
E	9.893E-08	5.150E-08	3.340E-08	1.887E-08	1.246E-08	8.949E-09	6.786E-09	5.343E-09	4.325E-09	3.576E-09	3.008E-09
ESE	2.072E-07	1.089E-07	7.102E-08	4.036E-08	2.670E-08	1.920E-08	1.456E-08	1.145E-08	9.259E-09	7.648E-09	6.425E-09
SE	2.475E-07	1.296E-07	8.437E-08	4.789E-08	3.170E-08	2.282E-08	1.733E-08	1.365E-08	1.106E-08	9.150E-09	7.700E-09
SSE	3.474E-07	1.815E-07	1.180E-07	6.683E-08	4.416E-08	3.174E-08	2.407E-08	1.895E-08	1.533E-08	1.267E-08	1.065E-08

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.111E-05	2.626E-06	8.352E-07	4.273E-07	2.672E-07	1.188E-07	4.180E-08	1.962E-08	1.178E-08	7.956E-09
SSW	5.898E-06	1.387E-06	4.260E-07	2.139E-07	1.321E-07	5.773E-08	1.990E-08	9.285E-09	5.592E-09	3.798E-09
SW	3.687E-06	8.364E-07	2.532E-07	1.263E-07	7.775E-08	3.396E-08	1.172E-08	5.484E-09	3.308E-09	2.250E-09
WSW	3.031E-06	6.957E-07	2.088E-07	1.035E-07	6.335E-08	2.738E-08	9.286E-09	4.287E-09	2.569E-09	1.740E-09
W	2.759E-06	6.238E-07	1.887E-07	9.403E-08	5.778E-08	2.506E-08	8.550E-09	3.969E-09	2.381E-09	1.612E-09
WNW	2.907E-06	6.514E-07	1.949E-07	9.640E-08	5.893E-08	2.533E-08	8.514E-09	3.913E-09	2.336E-09	1.577E-09
NW	4.691E-06	1.057E-06	3.145E-07	1.550E-07	9.448E-08	4.043E-08	1.350E-08	6.174E-09	3.686E-09	2.495E-09
NNW	5.096E-06	1.180E-06	3.696E-07	1.877E-07	1.168E-07	5.160E-08	1.803E-08	8.457E-09	5.095E-09	3.460E-09
N	1.099E-05	2.587E-06	8.462E-07	4.395E-07	2.777E-07	1.253E-07	4.491E-08	2.128E-08	1.282E-08	8.679E-09
NNE	9.519E-06	2.230E-06	7.368E-07	3.846E-07	2.437E-07	1.104E-07	3.964E-08	1.871E-08	1.120E-08	7.522E-09
NE	6.705E-06	1.567E-06	5.226E-07	2.740E-07	1.742E-07	7.920E-08	2.859E-08	1.352E-08	8.094E-09	5.436E-09
ENE	5.349E-06	1.249E-06	4.226E-07	2.231E-07	1.424E-07	6.508E-08	2.358E-08	1.113E-08	6.636E-09	4.435E-09
E	4.709E-06	1.105E-06	3.637E-07	1.893E-07	1.197E-07	5.399E-08	1.925E-08	9.019E-09	5.367E-09	3.588E-09
ESE	9.497E-06	2.214E-06	7.452E-07	3.924E-07	2.500E-07	1.139E-07	4.110E-08	1.934E-08	1.150E-08	7.672E-09
SE	1.161E-05	2.704E-06	8.993E-07	4.709E-07	2.990E-07	1.357E-07	4.880E-08	2.299E-08	1.371E-08	9.178E-09
SSE	1.626E-05	3.819E-06	1.267E-06	6.621E-07	4.199E-07	1.901E-07	6.812E-08	3.198E-08	1.903E-08	1.271E-08

VENTS GROUND LEVEL RELEASES - APR-JUN 2025
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	6.331E-05	1.954E-05	1.023E-05	5.073E-06	2.002E-06	1.065E-06	6.645E-07	4.569E-07	3.355E-07	2.582E-07	2.058E-07
SSW	3.175E-05	1.023E-05	5.469E-06	2.718E-06	1.046E-06	5.472E-07	3.369E-07	2.292E-07	1.668E-07	1.275E-07	1.010E-07
SW	2.021E-05	6.533E-06	3.392E-06	1.651E-06	6.282E-07	3.264E-07	2.001E-07	1.357E-07	9.855E-08	7.514E-08	5.943E-08
WSW	1.596E-05	5.303E-06	2.805E-06	1.377E-06	5.214E-07	2.697E-07	1.646E-07	1.112E-07	8.051E-08	6.120E-08	4.826E-08
W	1.521E-05	4.907E-06	2.533E-06	1.232E-06	4.687E-07	2.435E-07	1.492E-07	1.011E-07	7.340E-08	5.594E-08	4.422E-08
WNW	1.563E-05	5.180E-06	2.669E-06	1.292E-06	4.879E-07	2.521E-07	1.537E-07	1.038E-07	7.511E-08	5.707E-08	4.500E-08
NW	2.454E-05	8.305E-06	4.315E-06	2.097E-06	7.897E-07	4.068E-07	2.474E-07	1.667E-07	1.203E-07	9.122E-08	7.179E-08
NNW	2.831E-05	9.033E-06	4.677E-06	2.292E-06	8.944E-07	4.725E-07	2.930E-07	2.006E-07	1.468E-07	1.126E-07	8.953E-08
N	6.481E-05	1.963E-05	1.004E-05	4.937E-06	1.988E-06	1.072E-06	6.757E-07	4.683E-07	3.461E-07	2.679E-07	2.146E-07
NNE	5.826E-05	1.718E-05	8.650E-06	4.238E-06	1.720E-06	9.333E-07	5.904E-07	4.105E-07	3.042E-07	2.359E-07	1.894E-07
NE	4.157E-05	1.217E-05	6.074E-06	2.966E-06	1.213E-06	6.607E-07	4.193E-07	2.923E-07	2.170E-07	1.686E-07	1.355E-07
ENE	3.405E-05	9.796E-06	4.824E-06	2.348E-06	9.712E-07	5.331E-07	3.401E-07	2.380E-07	1.773E-07	1.381E-07	1.113E-07
E	2.827E-05	8.464E-06	4.289E-06	2.105E-06	8.523E-07	4.614E-07	2.914E-07	2.023E-07	1.498E-07	1.160E-07	9.305E-08
ESE	6.003E-05	1.737E-05	8.574E-06	4.175E-06	1.719E-06	9.414E-07	5.994E-07	4.189E-07	3.117E-07	2.426E-07	1.952E-07
SE	7.180E-05	2.111E-05	1.052E-05	5.127E-06	2.092E-06	1.138E-06	7.219E-07	5.030E-07	3.733E-07	2.899E-07	2.329E-07
SSE	1.003E-04	2.936E-05	1.477E-05	7.247E-06	2.952E-06	1.605E-06	1.017E-06	7.075E-07	5.247E-07	4.072E-07	3.270E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.687E-07	8.317E-08	5.180E-08	2.773E-08	1.767E-08	1.239E-08	9.221E-09	7.155E-09	5.723E-09	4.686E-09	3.908E-09
SSW	8.226E-08	3.974E-08	2.441E-08	1.283E-08	8.093E-09	5.630E-09	4.168E-09	3.221E-09	2.569E-09	2.099E-09	1.747E-09
SW	4.840E-08	2.341E-08	1.440E-08	7.591E-09	4.800E-09	3.347E-09	2.483E-09	1.922E-09	1.535E-09	1.255E-09	1.046E-09
WSW	3.920E-08	1.872E-08	1.141E-08	5.934E-09	3.712E-09	2.567E-09	1.892E-09	1.457E-09	1.158E-09	9.440E-10	7.843E-10
W	3.598E-08	1.729E-08	1.059E-08	5.557E-09	3.510E-09	2.445E-09	1.811E-09	1.401E-09	1.117E-09	9.130E-10	7.602E-10
WNW	3.652E-08	1.738E-08	1.057E-08	5.490E-09	3.443E-09	2.386E-09	1.760E-09	1.357E-09	1.079E-09	8.798E-10	7.311E-10
NW	5.816E-08	2.748E-08	1.662E-08	8.556E-09	5.320E-09	3.662E-09	2.689E-09	2.064E-09	1.637E-09	1.331E-09	1.104E-09
NNW	7.320E-08	3.581E-08	2.219E-08	1.180E-08	7.489E-09	5.235E-09	3.889E-09	3.013E-09	2.408E-09	1.970E-09	1.642E-09
N	1.766E-07	8.841E-08	5.563E-08	3.017E-08	1.938E-08	1.366E-08	1.021E-08	7.948E-09	6.375E-09	5.230E-09	4.370E-09
NNE	1.561E-07	7.862E-08	4.966E-08	2.706E-08	1.744E-08	1.232E-08	9.218E-09	7.181E-09	5.761E-09	4.728E-09	3.949E-09
NE	1.118E-07	5.659E-08	3.585E-08	1.961E-08	1.266E-08	8.955E-09	6.709E-09	5.231E-09	4.200E-09	3.448E-09	2.882E-09
ENE	9.198E-08	4.684E-08	2.979E-08	1.637E-08	1.060E-08	7.505E-09	5.628E-09	4.390E-09	3.526E-09	2.895E-09	2.419E-09
E	7.663E-08	3.846E-08	2.423E-08	1.316E-08	8.452E-09	5.955E-09	4.448E-09	3.459E-09	2.772E-09	2.271E-09	1.895E-09
ESE	1.613E-07	8.192E-08	5.201E-08	2.852E-08	1.844E-08	1.305E-08	9.777E-09	7.622E-09	6.117E-09	5.020E-09	4.193E-09
SE	1.922E-07	9.713E-08	6.148E-08	3.360E-08	2.169E-08	1.533E-08	1.148E-08	8.947E-09	7.179E-09	5.892E-09	4.921E-09
SSE	2.696E-07	1.360E-07	8.593E-08	4.685E-08	3.018E-08	2.131E-08	1.594E-08	1.241E-08	9.949E-09	8.159E-09	6.811E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
	SEGMENT BOUNDARIES IN MILES FROM THE SITE									
S	1.001E-05	2.268E-06	6.884E-07	3.407E-07	2.076E-07	8.822E-08	2.861E-08	1.253E-08	7.200E-09	4.705E-09
SSW	5.303E-06	1.196E-06	3.499E-07	1.697E-07	1.019E-07	4.237E-08	1.330E-08	5.702E-09	3.243E-09	2.108E-09
SW	3.316E-06	7.214E-07	2.080E-07	1.002E-07	6.000E-08	2.496E-08	7.863E-09	3.389E-09	1.934E-09	1.260E-09
WSW	2.725E-06	5.997E-07	1.713E-07	8.193E-08	4.874E-08	2.002E-08	6.164E-09	2.603E-09	1.468E-09	9.484E-10
W	2.482E-06	5.382E-07	1.551E-07	7.468E-08	4.464E-08	1.847E-08	5.766E-09	2.475E-09	1.410E-09	9.169E-10
WNW	2.615E-06	5.617E-07	1.600E-07	7.644E-08	4.544E-08	1.861E-08	5.709E-09	2.417E-09	1.366E-09	8.838E-10
NW	4.216E-06	9.100E-07	2.576E-07	1.225E-07	7.250E-08	2.947E-08	8.910E-09	3.715E-09	2.080E-09	1.337E-09
NNW	4.585E-06	1.018E-06	3.039E-07	1.491E-07	9.032E-08	3.807E-08	1.219E-08	5.298E-09	3.033E-09	1.978E-09
N	9.902E-06	2.236E-06	6.985E-07	3.512E-07	2.163E-07	9.344E-08	3.103E-08	1.381E-08	7.995E-09	5.251E-09
NNE	8.584E-06	1.930E-06	6.099E-07	3.086E-07	1.908E-07	8.296E-08	2.781E-08	1.244E-08	7.222E-09	4.746E-09
NE	6.048E-06	1.357E-06	4.329E-07	2.201E-07	1.366E-07	5.965E-08	2.013E-08	9.045E-09	5.260E-09	3.461E-09
ENE	4.828E-06	1.083E-06	3.507E-07	1.797E-07	1.121E-07	4.929E-08	1.678E-08	7.578E-09	4.415E-09	2.906E-09
E	4.246E-06	9.570E-07	3.011E-07	1.519E-07	9.378E-08	4.062E-08	1.353E-08	6.018E-09	3.480E-09	2.280E-09
ESE	8.572E-06	1.919E-06	6.184E-07	3.160E-07	1.967E-07	8.626E-08	2.926E-08	1.318E-08	7.664E-09	5.039E-09
SE	1.047E-05	2.342E-06	7.454E-07	3.786E-07	2.347E-07	1.024E-07	3.450E-08	1.548E-08	8.997E-09	5.914E-09
SSE	1.467E-05	3.308E-06	1.050E-06	5.322E-07	3.295E-07	1.434E-07	4.813E-08	2.153E-08	1.248E-08	8.190E-09

VENTS GROUND LEVEL RELEASES - APR-JUN 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	2.287E-07	7.733E-08	3.971E-08	1.888E-08	6.780E-09	3.363E-09	1.980E-09	1.296E-09	9.122E-10	6.761E-10	5.210E-10
SSW	1.471E-07	4.975E-08	2.554E-08	1.214E-08	4.362E-09	2.163E-09	1.274E-09	8.340E-10	5.868E-10	4.349E-10	3.351E-10
SW	1.086E-07	3.674E-08	1.886E-08	8.967E-09	3.221E-09	1.597E-09	9.406E-10	6.159E-10	4.334E-10	3.212E-10	2.475E-10
WSW	8.297E-08	2.806E-08	1.441E-08	6.849E-09	2.460E-09	1.220E-09	7.183E-10	4.704E-10	3.310E-10	2.453E-10	1.890E-10
W	8.842E-08	2.990E-08	1.535E-08	7.299E-09	2.622E-09	1.300E-09	7.656E-10	5.013E-10	3.527E-10	2.614E-10	2.014E-10
WNW	1.011E-07	3.418E-08	1.755E-08	8.343E-09	2.997E-09	1.486E-09	8.751E-10	5.730E-10	4.032E-10	2.988E-10	2.303E-10
NW	2.092E-07	7.076E-08	3.633E-08	1.727E-08	6.204E-09	3.077E-09	1.812E-09	1.186E-09	8.347E-10	6.186E-10	4.767E-10
NNW	1.696E-07	5.734E-08	2.944E-08	1.400E-08	5.028E-09	2.493E-09	1.468E-09	9.613E-10	6.764E-10	5.013E-10	3.863E-10
N	2.729E-07	9.229E-08	4.739E-08	2.253E-08	8.092E-09	4.013E-09	2.363E-09	1.547E-09	1.089E-09	8.068E-10	6.218E-10
NNE	1.735E-07	5.867E-08	3.012E-08	1.432E-08	5.144E-09	2.551E-09	1.502E-09	9.836E-10	6.921E-10	5.129E-10	3.953E-10
NE	8.135E-08	2.751E-08	1.412E-08	6.715E-09	2.412E-09	1.196E-09	7.043E-10	4.612E-10	3.245E-10	2.405E-10	1.853E-10
ENE	6.101E-08	2.063E-08	1.059E-08	5.036E-09	1.809E-09	8.972E-10	5.283E-10	3.459E-10	2.434E-10	1.804E-10	1.390E-10
E	6.233E-08	2.108E-08	1.082E-08	5.145E-09	1.848E-09	9.165E-10	5.397E-10	3.534E-10	2.486E-10	1.843E-10	1.420E-10
ESE	1.213E-07	4.103E-08	2.107E-08	1.002E-08	3.598E-09	1.784E-09	1.051E-09	6.879E-10	4.841E-10	3.587E-10	2.764E-10
SE	1.674E-07	5.660E-08	2.906E-08	1.382E-08	4.963E-09	2.461E-09	1.449E-09	9.489E-10	6.677E-10	4.948E-10	3.813E-10
SSE	2.405E-07	8.132E-08	4.175E-08	1.985E-08	7.130E-09	3.536E-09	2.082E-09	1.363E-09	9.593E-10	7.109E-10	5.479E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	4.139E-10	1.839E-10	1.114E-10	5.630E-11	3.407E-11	2.285E-11	1.637E-11	1.229E-11	9.557E-12	7.634E-12	6.231E-12
SSW	2.663E-10	1.183E-10	7.165E-11	3.621E-11	2.192E-11	1.470E-11	1.053E-11	7.907E-12	6.148E-12	4.911E-12	4.009E-12
SW	1.966E-10	8.735E-11	5.291E-11	2.674E-11	1.619E-11	1.085E-11	7.776E-12	5.839E-12	4.540E-12	3.627E-12	2.960E-12
WSW	1.502E-10	6.671E-11	4.041E-11	2.042E-11	1.236E-11	8.288E-12	5.939E-12	4.460E-12	3.467E-12	2.770E-12	2.261E-12
W	1.600E-10	7.109E-11	4.307E-11	2.177E-11	1.317E-11	8.833E-12	6.329E-12	4.753E-12	3.695E-12	2.952E-12	2.409E-12
WNW	1.829E-10	8.127E-11	4.923E-11	2.488E-11	1.506E-11	1.010E-11	7.235E-12	5.433E-12	4.224E-12	3.374E-12	2.754E-12
NW	3.787E-10	1.682E-10	1.019E-10	5.151E-11	3.118E-11	2.090E-11	1.498E-11	1.125E-11	8.745E-12	6.986E-12	5.702E-12
NNW	3.069E-10	1.363E-10	8.259E-11	4.174E-11	2.527E-11	1.694E-11	1.214E-11	9.115E-12	7.087E-12	5.661E-12	4.621E-12
N	4.940E-10	2.194E-10	1.329E-10	6.719E-11	4.066E-11	2.726E-11	1.954E-11	1.467E-11	1.141E-11	9.111E-12	7.437E-12
NNE	3.140E-10	1.395E-10	8.450E-11	4.271E-11	2.585E-11	1.733E-11	1.242E-11	9.325E-12	7.251E-12	5.792E-12	4.727E-12
NE	1.472E-10	6.541E-11	3.962E-11	2.003E-11	1.212E-11	8.127E-12	5.823E-12	4.373E-12	3.400E-12	2.716E-12	2.217E-12
ENE	1.104E-10	4.906E-11	2.972E-11	1.502E-11	9.091E-12	6.095E-12	4.368E-12	3.280E-12	2.550E-12	2.037E-12	1.663E-12
E	1.128E-10	5.012E-11	3.036E-11	1.534E-11	9.287E-12	6.227E-12	4.462E-12	3.350E-12	2.605E-12	2.081E-12	1.698E-12
ESE	2.196E-10	9.756E-11	5.910E-11	2.987E-11	1.808E-11	1.212E-11	8.686E-12	6.522E-12	5.071E-12	4.051E-12	3.306E-12
SE	3.029E-10	1.346E-10	8.152E-11	4.120E-11	2.494E-11	1.672E-11	1.198E-11	8.997E-12	6.995E-12	5.588E-12	4.561E-12
SSE	4.352E-10	1.934E-10	1.171E-10	5.920E-11	3.583E-11	2.402E-11	1.721E-11	1.293E-11	1.005E-11	8.028E-12	6.553E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.881E-08	7.949E-09	2.075E-09	9.320E-10	5.273E-10	2.028E-10	5.866E-11	2.325E-11	1.242E-11	7.685E-12
SSW	2.497E-08	5.114E-09	1.335E-09	5.996E-10	3.392E-10	1.304E-10	3.774E-11	1.496E-11	7.987E-12	4.943E-12
SW	1.844E-08	3.776E-09	9.859E-10	4.428E-10	2.505E-10	9.632E-11	2.787E-11	1.104E-11	5.898E-12	3.651E-12
WSW	1.408E-08	2.884E-09	7.529E-10	3.382E-10	1.913E-10	7.357E-11	2.128E-11	8.435E-12	4.504E-12	2.788E-12
W	1.501E-08	3.074E-09	8.024E-10	3.604E-10	2.039E-10	7.840E-11	2.268E-11	8.989E-12	4.800E-12	2.971E-12
WNW	1.715E-08	3.514E-09	9.173E-10	4.120E-10	2.331E-10	8.962E-11	2.593E-11	1.028E-11	5.488E-12	3.397E-12
NW	3.551E-08	7.274E-09	1.899E-09	8.528E-10	4.825E-10	1.855E-10	5.367E-11	2.127E-11	1.136E-11	7.031E-12
NNW	2.878E-08	5.895E-09	1.539E-09	6.911E-10	3.910E-10	1.504E-10	4.350E-11	1.724E-11	9.206E-12	5.698E-12
N	4.632E-08	9.487E-09	2.477E-09	1.112E-09	6.293E-10	2.420E-10	7.001E-11	2.775E-11	1.482E-11	9.171E-12
NNE	2.944E-08	6.031E-09	1.574E-09	7.071E-10	4.000E-10	1.538E-10	4.450E-11	1.764E-11	9.419E-12	5.830E-12
NE	1.381E-08	2.828E-09	7.382E-10	3.316E-10	1.876E-10	7.213E-11	2.087E-11	8.271E-12	4.417E-12	2.734E-12
ENE	1.035E-08	2.121E-09	5.537E-10	2.487E-10	1.407E-10	5.410E-11	1.565E-11	6.203E-12	3.312E-12	2.050E-12
E	1.058E-08	2.167E-09	5.656E-10	2.540E-10	1.437E-10	5.527E-11	1.599E-11	6.337E-12	3.384E-12	2.095E-12
ESE	2.059E-08	4.218E-09	1.101E-09	4.946E-10	2.798E-10	1.076E-10	3.113E-11	1.234E-11	6.588E-12	4.078E-12
SE	2.841E-08	5.818E-09	1.519E-09	6.822E-10	3.859E-10	1.484E-10	4.293E-11	1.702E-11	9.087E-12	5.624E-12
SSE	4.081E-08	8.359E-09	2.182E-09	9.801E-10	5.545E-10	2.132E-10	6.169E-11	2.445E-11	1.306E-11	8.081E-12

VENTS GROUND LEVEL RELEASES - APR-JUN 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.26 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.0 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	9.9E-06	9.8E-06	8.8E-06	3.4E-08
A	Site Boundary	SSW	.82	4.9E-06	4.9E-06	4.4E-06	2.0E-08
A	Site Boundary	SW	.97	2.0E-06	2.0E-06	1.8E-06	9.6E-09
A	Site Boundary	WSW	.93	1.9E-06	1.9E-06	1.7E-06	8.4E-09
A	Site Boundary	W	.91	1.8E-06	1.7E-06	1.5E-06	9.2E-09
A	Site Boundary	WNW	.94	1.7E-06	1.7E-06	1.5E-06	9.9E-09
A	Site Boundary	NW	.81	4.0E-06	4.0E-06	3.5E-06	3.0E-08
A	Site Boundary	NNW	.69	6.0E-06	6.0E-06	5.4E-06	3.4E-08
A	Site Boundary	N	.67	1.3E-05	1.3E-05	1.2E-05	5.7E-08
A	Site Boundary	NNE	.60	1.4E-05	1.4E-05	1.3E-05	4.4E-08
A	Site Boundary	NE	.62	9.2E-06	9.1E-06	8.2E-06	1.9E-08
A	Site Boundary	ENE	.59	8.2E-06	8.1E-06	7.4E-06	1.6E-08
A	Site Boundary	E	.53	8.6E-06	8.5E-06	7.8E-06	1.9E-08
A	Site Boundary	ESE	.54	1.7E-05	1.7E-05	1.5E-05	3.6E-08
A	Site Boundary	SE	.65	1.5E-05	1.5E-05	1.3E-05	3.7E-08
A	Site Boundary	SSE	.81	1.4E-05	1.4E-05	1.2E-05	3.4E-08
A	Nearest Res	SW	1.30	1.0E-06	1.0E-06	8.8E-07	4.6E-09
A	Nearest Res	WSW	1.90	3.7E-07	3.6E-07	3.0E-07	1.4E-09
A	Nearest Res	WNW	2.50	1.9E-07	1.9E-07	1.5E-07	8.8E-10
A	Nearest Res	NW	1.20	1.6E-06	1.6E-06	1.3E-06	1.1E-08
A	Nearest Res	NNW	2.00	5.7E-07	5.7E-07	4.7E-07	2.5E-09
A	Nearest Res	NE	1.70	1.1E-06	1.1E-06	9.3E-07	1.8E-09
A	Nearest Res	E	1.90	6.2E-07	6.1E-07	5.1E-07	1.0E-09
A	Nearest Cow	NNW	3.50	1.9E-07	1.9E-07	1.5E-07	6.8E-10
A	Nearest Garde	SW	2.20	3.2E-07	3.2E-07	2.6E-07	1.3E-09
A	Nearest Garde	WSW	2.50	2.0E-07	2.0E-07	1.6E-07	7.2E-10
A	Nearest Garde	WNW	2.70	1.6E-07	1.6E-07	1.3E-07	7.3E-10
A	Nearest Garde	NNW	2.70	3.1E-07	3.1E-07	2.5E-07	1.2E-09
A	Nearest Garde	ENE	1.70	8.9E-07	8.8E-07	7.5E-07	1.3E-09
A	Nearest Garde	E	1.90	6.2E-07	6.1E-07	5.1E-07	1.0E-09
A	Nearest Garde	ESE	2.20	9.5E-07	9.3E-07	7.8E-07	1.4E-09
A	Nearest Garde	SE	1.90	1.5E-06	1.5E-06	1.3E-06	2.8E-09

Atmospheric Diffusion Estimates

Ground Level Releases

January-June 2025

B252

VENTS GROUND LEVEL RELEASES - JAN-JUN 2025
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	6.066E-05	1.920E-05	1.017E-05	5.115E-06	2.098E-06	1.152E-06	7.380E-07	5.196E-07	3.898E-07	3.059E-07	2.484E-07
SSW	3.334E-05	1.082E-05	5.726E-06	2.861E-06	1.154E-06	6.269E-07	3.984E-07	2.787E-07	2.079E-07	1.625E-07	1.314E-07
SW	1.788E-05	5.974E-06	3.166E-06	1.571E-06	6.224E-07	3.342E-07	2.105E-07	1.463E-07	1.086E-07	8.443E-08	6.800E-08
WSW	1.231E-05	4.193E-06	2.250E-06	1.122E-06	4.412E-07	2.354E-07	1.476E-07	1.021E-07	7.548E-08	5.850E-08	4.698E-08
W	1.196E-05	4.050E-06	2.154E-06	1.069E-06	4.229E-07	2.267E-07	1.427E-07	9.905E-08	7.344E-08	5.707E-08	4.594E-08
WNW	1.537E-05	5.231E-06	2.760E-06	1.364E-06	5.387E-07	2.884E-07	1.812E-07	1.256E-07	9.304E-08	7.223E-08	5.809E-08
NW	2.492E-05	8.471E-06	4.474E-06	2.218E-06	8.806E-07	4.729E-07	2.979E-07	2.069E-07	1.534E-07	1.192E-07	9.598E-08
NNW	3.656E-05	1.165E-05	6.110E-06	3.053E-06	1.256E-06	6.914E-07	4.437E-07	3.128E-07	2.349E-07	1.846E-07	1.500E-07
N	8.041E-05	2.470E-05	1.272E-05	6.336E-06	2.662E-06	1.486E-06	9.633E-07	6.847E-07	5.176E-07	4.090E-07	3.339E-07
NNE	5.743E-05	1.760E-05	9.033E-06	4.493E-06	1.886E-06	1.052E-06	6.816E-07	4.843E-07	3.661E-07	2.892E-07	2.361E-07
NE	4.822E-05	1.477E-05	7.550E-06	3.750E-06	1.578E-06	8.818E-07	5.723E-07	4.071E-07	3.079E-07	2.434E-07	1.988E-07
ENE	3.859E-05	1.175E-05	5.988E-06	2.973E-06	1.257E-06	7.042E-07	4.579E-07	3.262E-07	2.471E-07	1.955E-07	1.599E-07
E	3.471E-05	1.077E-05	5.537E-06	2.753E-06	1.153E-06	6.422E-07	4.158E-07	2.952E-07	2.230E-07	1.760E-07	1.436E-07
ESE	4.863E-05	1.508E-05	7.824E-06	3.910E-06	1.634E-06	9.085E-07	5.874E-07	4.166E-07	3.143E-07	2.480E-07	2.022E-07
SE	6.353E-05	1.989E-05	1.024E-05	5.078E-06	2.113E-06	1.172E-06	7.569E-07	5.362E-07	4.043E-07	3.187E-07	2.597E-07
SSE	7.718E-05	2.402E-05	1.244E-05	6.198E-06	2.575E-06	1.427E-06	9.204E-07	6.515E-07	4.909E-07	3.868E-07	3.150E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.070E-07	1.092E-07	7.214E-08	4.248E-08	2.931E-08	2.202E-08	1.745E-08	1.435E-08	1.212E-08	1.044E-08	9.148E-09
SSW	1.091E-07	5.690E-08	3.726E-08	2.171E-08	1.488E-08	1.112E-08	8.781E-09	7.197E-09	6.063E-09	5.214E-09	4.557E-09
SW	5.632E-08	2.908E-08	1.891E-08	1.092E-08	7.436E-09	5.532E-09	4.351E-09	3.555E-09	2.986E-09	2.562E-09	2.235E-09
WSW	3.880E-08	1.979E-08	1.276E-08	7.275E-09	4.909E-09	3.626E-09	2.835E-09	2.304E-09	1.927E-09	1.647E-09	1.431E-09
W	3.801E-08	1.952E-08	1.266E-08	7.277E-09	4.949E-09	3.678E-09	2.890E-09	2.359E-09	1.980E-09	1.698E-09	1.480E-09
WNW	4.801E-08	2.455E-08	1.587E-08	9.088E-09	6.162E-09	4.570E-09	3.585E-09	2.922E-09	2.451E-09	2.099E-09	1.829E-09
NW	7.939E-08	4.072E-08	2.636E-08	1.511E-08	1.024E-08	7.586E-09	5.947E-09	4.846E-09	4.061E-09	3.478E-09	3.028E-09
NNW	1.251E-07	6.620E-08	4.380E-08	2.586E-08	1.786E-08	1.343E-08	1.066E-08	8.770E-09	7.412E-09	6.394E-09	5.603E-09
N	2.797E-07	1.503E-07	1.005E-07	6.019E-08	4.198E-08	3.180E-08	2.537E-08	2.097E-08	1.780E-08	1.541E-08	1.354E-08
NNE	1.977E-07	1.063E-07	7.105E-08	4.255E-08	2.968E-08	2.249E-08	1.795E-08	1.484E-08	1.260E-08	1.090E-08	9.587E-09
NE	1.666E-07	8.968E-08	6.002E-08	3.599E-08	2.513E-08	1.905E-08	1.521E-08	1.258E-08	1.068E-08	9.250E-09	8.135E-09
ENE	1.341E-07	7.235E-08	4.851E-08	2.915E-08	2.038E-08	1.546E-08	1.236E-08	1.023E-08	8.690E-09	7.529E-09	6.624E-09
E	1.202E-07	6.447E-08	4.304E-08	2.572E-08	1.791E-08	1.355E-08	1.080E-08	8.926E-09	7.571E-09	6.550E-09	5.756E-09
ESE	1.691E-07	9.048E-08	6.030E-08	3.595E-08	2.499E-08	1.889E-08	1.504E-08	1.242E-08	1.052E-08	9.100E-09	7.992E-09
SE	2.172E-07	1.160E-07	7.727E-08	4.604E-08	3.201E-08	2.420E-08	1.927E-08	1.592E-08	1.349E-08	1.167E-08	1.025E-08
SSE	2.633E-07	1.405E-07	9.343E-08	5.558E-08	3.861E-08	2.916E-08	2.321E-08	1.915E-08	1.623E-08	1.403E-08	1.232E-08

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	9.929E-06	2.348E-06	7.611E-07	3.949E-07	2.501E-07	1.145E-07	4.322E-08	2.213E-08	1.438E-08	1.046E-08
SSW	5.584E-06	1.299E-06	4.114E-07	2.108E-07	1.324E-07	5.978E-08	2.213E-08	1.119E-08	7.218E-09	5.222E-09
SW	3.081E-06	7.050E-07	2.178E-07	1.101E-07	6.854E-08	3.061E-08	1.115E-08	5.568E-09	3.566E-09	2.567E-09
WSW	2.181E-06	5.010E-07	1.528E-07	7.662E-08	4.736E-08	2.089E-08	7.443E-09	3.652E-09	2.312E-09	1.650E-09
W	2.093E-06	4.793E-07	1.476E-07	7.452E-08	4.630E-08	2.058E-08	7.438E-09	3.702E-09	2.367E-09	1.701E-09
WNW	2.689E-06	6.109E-07	1.876E-07	9.443E-08	5.854E-08	2.591E-08	9.295E-09	4.600E-09	2.932E-09	2.103E-09
NW	4.360E-06	9.967E-07	3.082E-07	1.557E-07	9.673E-08	4.293E-08	1.545E-08	7.637E-09	4.862E-09	3.484E-09
NNW	5.983E-06	1.404E-06	4.574E-07	2.380E-07	1.510E-07	6.933E-08	2.629E-08	1.350E-08	8.792E-09	6.403E-09
N	1.254E-05	2.956E-06	9.911E-07	5.240E-07	3.361E-07	1.570E-07	6.106E-08	3.194E-08	2.102E-08	1.542E-08
NNE	8.918E-06	2.095E-06	7.014E-07	3.706E-07	2.376E-07	1.109E-07	4.316E-08	2.259E-08	1.487E-08	1.092E-08
NE	7.465E-06	1.751E-06	5.887E-07	3.117E-07	2.001E-07	9.359E-08	3.650E-08	1.913E-08	1.261E-08	9.261E-09
ENE	5.929E-06	1.392E-06	4.709E-07	2.501E-07	1.609E-07	7.546E-08	2.955E-08	1.553E-08	1.025E-08	7.538E-09
E	5.463E-06	1.281E-06	4.280E-07	2.257E-07	1.446E-07	6.734E-08	2.610E-08	1.361E-08	8.946E-09	6.559E-09
ESE	7.696E-06	1.817E-06	6.047E-07	3.183E-07	2.035E-07	9.455E-08	3.649E-08	1.898E-08	1.245E-08	9.112E-09
SE	1.009E-05	2.354E-06	7.794E-07	4.093E-07	2.614E-07	1.213E-07	4.674E-08	2.431E-08	1.595E-08	1.168E-08
SSE	1.224E-05	2.870E-06	9.480E-07	4.971E-07	3.171E-07	1.469E-07	5.645E-08	2.930E-08	1.920E-08	1.405E-08

VENTS GROUND LEVEL RELEASES - JAN-JUN 2025
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	6.054E-05	1.912E-05	1.011E-05	5.077E-06	2.074E-06	1.134E-06	7.235E-07	5.073E-07	3.789E-07	2.961E-07	2.394E-07
SSW	3.328E-05	1.078E-05	5.697E-06	2.842E-06	1.142E-06	6.182E-07	3.914E-07	2.727E-07	2.027E-07	1.578E-07	1.271E-07
SW	1.785E-05	5.955E-06	3.152E-06	1.561E-06	6.166E-07	3.299E-07	2.071E-07	1.434E-07	1.061E-07	8.219E-08	6.596E-08
WSW	1.229E-05	4.182E-06	2.241E-06	1.116E-06	4.376E-07	2.328E-07	1.455E-07	1.004E-07	7.399E-08	5.717E-08	4.577E-08
W	1.194E-05	4.038E-06	2.144E-06	1.063E-06	4.190E-07	2.239E-07	1.404E-07	9.713E-08	7.176E-08	5.557E-08	4.457E-08
WNW	1.535E-05	5.216E-06	2.748E-06	1.357E-06	5.341E-07	2.850E-07	1.785E-07	1.234E-07	9.105E-08	7.045E-08	5.646E-08
NW	2.488E-05	8.449E-06	4.457E-06	2.207E-06	8.736E-07	4.678E-07	2.937E-07	2.034E-07	1.503E-07	1.165E-07	9.345E-08
NNW	3.649E-05	1.161E-05	6.078E-06	3.032E-06	1.242E-06	6.811E-07	4.354E-07	3.057E-07	2.287E-07	1.789E-07	1.448E-07
N	8.021E-05	2.459E-05	1.263E-05	6.282E-06	2.627E-06	1.459E-06	9.416E-07	6.661E-07	5.012E-07	3.941E-07	3.202E-07
NNE	5.728E-05	1.751E-05	8.970E-06	4.452E-06	1.859E-06	1.032E-06	6.653E-07	4.704E-07	3.537E-07	2.780E-07	2.258E-07
NE	4.810E-05	1.470E-05	7.495E-06	3.714E-06	1.555E-06	8.643E-07	5.580E-07	3.948E-07	2.970E-07	2.335E-07	1.898E-07
ENE	3.848E-05	1.169E-05	5.943E-06	2.943E-06	1.238E-06	6.900E-07	4.463E-07	3.162E-07	2.382E-07	1.875E-07	1.525E-07
E	3.462E-05	1.072E-05	5.499E-06	2.727E-06	1.137E-06	6.300E-07	4.058E-07	2.866E-07	2.154E-07	1.692E-07	1.373E-07
ESE	4.852E-05	1.501E-05	7.774E-06	3.877E-06	1.613E-06	8.925E-07	5.743E-07	4.054E-07	3.044E-07	2.390E-07	1.940E-07
SE	6.338E-05	1.980E-05	1.017E-05	5.035E-06	2.086E-06	1.151E-06	7.398E-07	5.216E-07	3.913E-07	3.070E-07	2.490E-07
SSE	7.699E-05	2.391E-05	1.235E-05	6.143E-06	2.540E-06	1.401E-06	8.989E-07	6.331E-07	4.746E-07	3.720E-07	3.015E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.987E-07	1.027E-07	6.638E-08	3.750E-08	2.485E-08	1.795E-08	1.369E-08	1.085E-08	8.841E-09	7.360E-09	6.232E-09
SSW	1.052E-07	5.378E-08	3.455E-08	1.937E-08	1.279E-08	9.217E-09	7.024E-09	5.562E-09	4.531E-09	3.771E-09	3.194E-09
SW	5.444E-08	2.761E-08	1.764E-08	9.831E-09	6.468E-09	4.653E-09	3.541E-09	2.802E-09	2.281E-09	1.899E-09	1.608E-09
WSW	3.768E-08	1.894E-08	1.203E-08	6.652E-09	4.357E-09	3.126E-09	2.375E-09	1.877E-09	1.528E-09	1.271E-09	1.076E-09
W	3.674E-08	1.854E-08	1.181E-08	6.553E-09	4.305E-09	3.093E-09	2.352E-09	1.859E-09	1.513E-09	1.258E-09	1.065E-09
WNW	4.651E-08	2.338E-08	1.486E-08	8.220E-09	5.390E-09	3.868E-09	2.938E-09	2.322E-09	1.889E-09	1.571E-09	1.330E-09
NW	7.705E-08	3.887E-08	2.475E-08	1.373E-08	9.000E-09	6.460E-09	4.909E-09	3.881E-09	3.158E-09	2.628E-09	2.225E-09
NNW	1.203E-07	6.234E-08	4.040E-08	2.291E-08	1.521E-08	1.101E-08	8.420E-09	6.686E-09	5.459E-09	4.554E-09	3.865E-09
N	2.670E-07	1.401E-07	9.149E-08	5.231E-08	3.488E-08	2.530E-08	1.936E-08	1.538E-08	1.255E-08	1.046E-08	8.874E-09
NNE	1.882E-07	9.858E-08	6.427E-08	3.663E-08	2.436E-08	1.762E-08	1.344E-08	1.065E-08	8.668E-09	7.208E-09	6.096E-09
NE	1.582E-07	8.290E-08	5.404E-08	3.077E-08	2.043E-08	1.475E-08	1.124E-08	8.887E-09	7.222E-09	5.994E-09	5.061E-09
ENE	1.272E-07	6.682E-08	4.363E-08	2.489E-08	1.655E-08	1.196E-08	9.118E-09	7.214E-09	5.866E-09	4.871E-09	4.115E-09
E	1.144E-07	5.977E-08	3.890E-08	2.211E-08	1.467E-08	1.059E-08	8.069E-09	6.382E-09	5.188E-09	4.308E-09	3.639E-09
ESE	1.615E-07	8.434E-08	5.489E-08	3.124E-08	2.076E-08	1.502E-08	1.147E-08	9.088E-09	7.404E-09	6.162E-09	5.216E-09
SE	2.072E-07	1.080E-07	7.020E-08	3.988E-08	2.647E-08	1.913E-08	1.459E-08	1.156E-08	9.409E-09	7.825E-09	6.619E-09
SSE	2.507E-07	1.304E-07	8.459E-08	4.789E-08	3.170E-08	2.285E-08	1.738E-08	1.373E-08	1.115E-08	9.247E-09	7.802E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	9.876E-06	2.323E-06	7.465E-07	3.841E-07	2.411E-07	1.079E-07	3.829E-08	1.808E-08	1.090E-08	7.381E-09
SSW	5.558E-06	1.287E-06	4.044E-07	2.056E-07	1.281E-07	5.666E-08	1.982E-08	9.292E-09	5.587E-09	3.782E-09
SW	3.068E-06	6.991E-07	2.144E-07	1.076E-07	6.650E-08	2.914E-08	1.007E-08	4.692E-09	2.815E-09	1.904E-09
WSW	2.172E-06	4.974E-07	1.507E-07	7.512E-08	4.616E-08	2.003E-08	6.827E-09	3.154E-09	1.886E-09	1.275E-09
W	2.084E-06	4.753E-07	1.453E-07	7.284E-08	4.493E-08	1.959E-08	6.721E-09	3.120E-09	1.868E-09	1.262E-09
WNW	2.678E-06	6.062E-07	1.848E-07	9.243E-08	5.692E-08	2.473E-08	8.437E-09	3.902E-09	2.333E-09	1.576E-09
NW	4.344E-06	9.895E-07	3.040E-07	1.526E-07	9.419E-08	4.108E-08	1.408E-08	6.517E-09	3.899E-09	2.636E-09
NNW	5.953E-06	1.391E-06	4.490E-07	2.317E-07	1.458E-07	6.546E-08	2.337E-08	1.110E-08	6.714E-09	4.567E-09
N	1.247E-05	2.920E-06	9.694E-07	5.075E-07	3.224E-07	1.467E-07	5.327E-08	2.548E-08	1.544E-08	1.049E-08
NNE	8.860E-06	2.068E-06	6.851E-07	3.582E-07	2.273E-07	1.032E-07	3.732E-08	1.775E-08	1.069E-08	7.229E-09
NE	7.415E-06	1.728E-06	5.744E-07	3.008E-07	1.910E-07	8.680E-08	3.135E-08	1.486E-08	8.925E-09	6.012E-09
ENE	5.887E-06	1.373E-06	4.592E-07	2.412E-07	1.535E-07	6.993E-08	2.535E-08	1.205E-08	7.244E-09	4.886E-09
E	5.427E-06	1.265E-06	4.179E-07	2.181E-07	1.383E-07	6.263E-08	2.254E-08	1.067E-08	6.409E-09	4.321E-09
ESE	7.650E-06	1.796E-06	5.916E-07	3.083E-07	1.953E-07	8.839E-08	3.184E-08	1.513E-08	9.126E-09	6.180E-09
SE	1.003E-05	2.326E-06	7.623E-07	3.964E-07	2.507E-07	1.132E-07	4.066E-08	1.928E-08	1.161E-08	7.847E-09
SSE	1.216E-05	2.834E-06	9.264E-07	4.808E-07	3.036E-07	1.368E-07	4.885E-08	2.302E-08	1.379E-08	9.275E-09

VENTS GROUND LEVEL RELEASES - JAN-JUN 2025
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	5.738E-05	1.751E-05	9.049E-06	4.468E-06	1.776E-06	9.497E-07	5.945E-07	4.099E-07	3.017E-07	2.327E-07	1.858E-07
SSW	3.154E-05	9.870E-06	5.095E-06	2.499E-06	9.773E-07	5.170E-07	3.211E-07	2.200E-07	1.611E-07	1.237E-07	9.841E-08
SW	1.691E-05	5.451E-06	2.818E-06	1.373E-06	5.272E-07	2.757E-07	1.698E-07	1.156E-07	8.415E-08	6.431E-08	5.097E-08
WSW	1.165E-05	3.826E-06	2.003E-06	9.807E-07	3.738E-07	1.943E-07	1.191E-07	8.071E-08	5.856E-08	4.462E-08	3.526E-08
W	1.131E-05	3.695E-06	1.917E-06	9.341E-07	3.582E-07	1.871E-07	1.151E-07	7.824E-08	5.693E-08	4.348E-08	3.443E-08
WNW	1.454E-05	4.773E-06	2.457E-06	1.192E-06	4.564E-07	2.380E-07	1.462E-07	9.927E-08	7.215E-08	5.505E-08	4.356E-08
NW	2.357E-05	7.730E-06	3.983E-06	1.939E-06	7.462E-07	3.904E-07	2.403E-07	1.635E-07	1.190E-07	9.092E-08	7.202E-08
NNW	3.458E-05	1.063E-05	5.437E-06	2.667E-06	1.063E-06	5.701E-07	3.575E-07	2.469E-07	1.819E-07	1.404E-07	1.122E-07
N	7.605E-05	2.253E-05	1.131E-05	5.533E-06	2.252E-06	1.224E-06	7.752E-07	5.396E-07	4.002E-07	3.106E-07	2.495E-07
NNE	5.431E-05	1.605E-05	8.034E-06	3.923E-06	1.595E-06	8.661E-07	5.484E-07	3.815E-07	2.829E-07	2.195E-07	1.762E-07
NE	4.560E-05	1.347E-05	6.714E-06	3.273E-06	1.335E-06	7.261E-07	4.602E-07	3.205E-07	2.378E-07	1.846E-07	1.483E-07
ENE	3.649E-05	1.072E-05	5.325E-06	2.595E-06	1.063E-06	5.797E-07	3.682E-07	2.568E-07	1.908E-07	1.483E-07	1.192E-07
E	3.283E-05	9.823E-06	4.925E-06	2.403E-06	9.752E-07	5.289E-07	3.345E-07	2.325E-07	1.723E-07	1.336E-07	1.072E-07
ESE	4.599E-05	1.375E-05	6.960E-06	3.415E-06	1.382E-06	7.485E-07	4.728E-07	3.283E-07	2.431E-07	1.884E-07	1.511E-07
SE	6.008E-05	1.814E-05	9.104E-06	4.434E-06	1.788E-06	9.658E-07	6.091E-07	4.225E-07	3.125E-07	2.420E-07	1.940E-07
SSE	7.299E-05	2.191E-05	1.106E-05	5.412E-06	2.179E-06	1.175E-06	7.406E-07	5.133E-07	3.794E-07	2.936E-07	2.352E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.525E-07	7.565E-08	4.731E-08	2.546E-08	1.629E-08	1.145E-08	8.542E-09	6.640E-09	5.320E-09	4.362E-09	3.642E-09
SSW	8.050E-08	3.946E-08	2.449E-08	1.305E-08	8.304E-09	5.813E-09	4.324E-09	3.354E-09	2.682E-09	2.196E-09	1.831E-09
SW	4.157E-08	2.019E-08	1.245E-08	6.583E-09	4.166E-09	2.905E-09	2.155E-09	1.667E-09	1.331E-09	1.088E-09	9.062E-10
WSW	2.868E-08	1.378E-08	8.428E-09	4.407E-09	2.767E-09	1.919E-09	1.417E-09	1.093E-09	8.698E-10	7.093E-10	5.896E-10
W	2.806E-08	1.356E-08	8.332E-09	4.387E-09	2.772E-09	1.931E-09	1.431E-09	1.106E-09	8.825E-10	7.209E-10	6.001E-10
WNW	3.546E-08	1.707E-08	1.046E-08	5.486E-09	3.457E-09	2.403E-09	1.778E-09	1.373E-09	1.094E-09	8.930E-10	7.428E-10
NW	5.867E-08	2.832E-08	1.739E-08	9.133E-09	5.750E-09	3.996E-09	2.955E-09	2.281E-09	1.817E-09	1.482E-09	1.233E-09
NNW	9.219E-08	4.586E-08	2.874E-08	1.551E-08	9.938E-09	6.994E-09	5.223E-09	4.064E-09	3.259E-09	2.674E-09	2.234E-09
N	2.057E-07	1.038E-07	6.571E-08	3.590E-08	2.318E-08	1.641E-08	1.230E-08	9.602E-09	7.719E-09	6.346E-09	5.311E-09
NNE	1.453E-07	7.331E-08	4.636E-08	2.531E-08	1.633E-08	1.155E-08	8.656E-09	6.752E-09	5.424E-09	4.456E-09	3.726E-09
NE	1.224E-07	6.180E-08	3.911E-08	2.137E-08	1.379E-08	9.752E-09	7.307E-09	5.698E-09	4.576E-09	3.758E-09	3.142E-09
ENE	9.843E-08	4.984E-08	3.160E-08	1.730E-08	1.118E-08	7.913E-09	5.933E-09	4.630E-09	3.720E-09	3.056E-09	2.556E-09
E	8.835E-08	4.447E-08	2.808E-08	1.529E-08	9.851E-09	6.957E-09	5.207E-09	4.058E-09	3.257E-09	2.674E-09	2.235E-09
ESE	1.244E-07	6.250E-08	3.941E-08	2.144E-08	1.380E-08	9.745E-09	7.294E-09	5.684E-09	4.563E-09	3.747E-09	3.132E-09
SE	1.597E-07	8.011E-08	5.048E-08	2.744E-08	1.766E-08	1.246E-08	9.326E-09	7.266E-09	5.832E-09	4.788E-09	4.002E-09
SSE	1.935E-07	9.691E-08	6.098E-08	3.307E-08	2.125E-08	1.498E-08	1.120E-08	8.715E-09	6.988E-09	5.731E-09	4.786E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
	SEGMENT BOUNDARIES IN MILES FROM THE SITE									
S	8.893E-06	2.007E-06	6.154E-07	3.063E-07	1.874E-07	8.013E-08	2.624E-08	1.158E-08	6.680E-09	4.379E-09
SSW	5.003E-06	1.111E-06	3.329E-07	1.637E-07	9.927E-08	4.193E-08	1.348E-08	5.882E-09	3.375E-09	2.205E-09
SW	2.761E-06	6.033E-07	1.763E-07	8.556E-08	5.144E-08	2.150E-08	6.813E-09	2.941E-09	1.678E-09	1.093E-09
WSW	1.954E-06	4.289E-07	1.238E-07	5.958E-08	3.559E-08	1.471E-08	4.572E-09	1.945E-09	1.100E-09	7.125E-10
W	1.875E-06	4.101E-07	1.195E-07	5.789E-08	3.475E-08	1.446E-08	4.546E-09	1.955E-09	1.114E-09	7.240E-10
WNW	2.410E-06	5.228E-07	1.519E-07	7.339E-08	4.397E-08	1.822E-08	5.689E-09	2.434E-09	1.382E-09	8.969E-10
NW	3.907E-06	8.531E-07	2.496E-07	1.210E-07	7.268E-08	3.021E-08	9.464E-09	4.047E-09	2.296E-09	1.489E-09
NNW	5.360E-06	1.201E-06	3.699E-07	1.847E-07	1.132E-07	4.855E-08	1.597E-08	7.071E-09	4.089E-09	2.685E-09
N	1.124E-05	2.524E-06	8.006E-07	4.059E-07	2.514E-07	1.095E-07	3.687E-08	1.657E-08	9.656E-09	6.369E-09
NNE	7.987E-06	1.788E-06	5.664E-07	2.869E-07	1.776E-07	7.733E-08	2.600E-08	1.167E-08	6.790E-09	4.472E-09
NE	6.686E-06	1.495E-06	4.752E-07	2.412E-07	1.495E-07	6.517E-08	2.194E-08	9.851E-09	5.730E-09	3.772E-09
ENE	5.309E-06	1.188E-06	3.801E-07	1.935E-07	1.201E-07	5.253E-08	1.776E-08	7.993E-09	4.656E-09	3.068E-09
E	4.893E-06	1.094E-06	3.456E-07	1.748E-07	1.080E-07	4.693E-08	1.572E-08	7.029E-09	4.081E-09	2.684E-09
ESE	6.893E-06	1.552E-06	4.885E-07	2.466E-07	1.522E-07	6.600E-08	2.204E-08	9.847E-09	5.717E-09	3.761E-09
SE	9.037E-06	2.011E-06	6.296E-07	3.171E-07	1.955E-07	8.463E-08	2.821E-08	1.259E-08	7.308E-09	4.806E-09
SSE	1.096E-05	2.451E-06	7.656E-07	3.850E-07	2.371E-07	1.024E-07	3.402E-08	1.514E-08	8.766E-09	5.754E-09

VENTS GROUND LEVEL RELEASES - JAN-JUN 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	2.268E-07	7.670E-08	3.938E-08	1.872E-08	6.725E-09	3.335E-09	1.964E-09	1.286E-09	9.048E-10	6.705E-10	5.167E-10
SSW	1.547E-07	5.233E-08	2.687E-08	1.277E-08	4.588E-09	2.275E-09	1.340E-09	8.773E-10	6.173E-10	4.575E-10	3.525E-10
SW	8.562E-08	2.895E-08	1.487E-08	7.067E-09	2.539E-09	1.259E-09	7.413E-10	4.854E-10	3.415E-10	2.531E-10	1.951E-10
WSW	6.021E-08	2.036E-08	1.045E-08	4.970E-09	1.785E-09	8.854E-10	5.213E-10	3.414E-10	2.402E-10	1.780E-10	1.372E-10
W	5.707E-08	1.930E-08	9.909E-09	4.711E-09	1.692E-09	8.392E-10	4.941E-10	3.236E-10	2.277E-10	1.687E-10	1.300E-10
WNW	8.067E-08	2.728E-08	1.401E-08	6.659E-09	2.392E-09	1.186E-09	6.984E-10	4.573E-10	3.218E-10	2.385E-10	1.838E-10
NW	1.542E-07	5.215E-08	2.678E-08	1.273E-08	4.573E-09	2.268E-09	1.335E-09	8.743E-10	6.152E-10	4.559E-10	3.513E-10
NNW	1.567E-07	5.299E-08	2.721E-08	1.293E-08	4.646E-09	2.304E-09	1.357E-09	8.883E-10	6.251E-10	4.632E-10	3.570E-10
N	2.579E-07	8.720E-08	4.477E-08	2.129E-08	7.646E-09	3.792E-09	2.233E-09	1.462E-09	1.029E-09	7.623E-10	5.875E-10
NNE	1.761E-07	5.954E-08	3.057E-08	1.453E-08	5.220E-09	2.589E-09	1.524E-09	9.981E-10	7.023E-10	5.205E-10	4.011E-10
NE	1.104E-07	3.734E-08	1.917E-08	9.114E-09	3.274E-09	1.624E-09	9.560E-10	6.260E-10	4.405E-10	3.264E-10	2.515E-10
ENE	8.422E-08	2.848E-08	1.462E-08	6.951E-09	2.497E-09	1.238E-09	7.291E-10	4.774E-10	3.359E-10	2.490E-10	1.919E-10
E	7.794E-08	2.636E-08	1.353E-08	6.433E-09	2.311E-09	1.146E-09	6.748E-10	4.419E-10	3.109E-10	2.304E-10	1.776E-10
ESE	1.411E-07	4.772E-08	2.450E-08	1.165E-08	4.184E-09	2.075E-09	1.222E-09	8.001E-10	5.630E-10	4.172E-10	3.215E-10
SE	2.238E-07	7.568E-08	3.886E-08	1.847E-08	6.636E-09	3.291E-09	1.938E-09	1.269E-09	8.928E-10	6.616E-10	5.099E-10
SSE	2.686E-07	9.081E-08	4.663E-08	2.217E-08	7.963E-09	3.949E-09	2.325E-09	1.523E-09	1.071E-09	7.939E-10	6.118E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	4.105E-10	1.824E-10	1.105E-10	5.583E-11	3.379E-11	2.266E-11	1.624E-11	1.219E-11	9.479E-12	7.572E-12	6.180E-12
SSW	2.801E-10	1.244E-10	7.537E-11	3.809E-11	2.306E-11	1.546E-11	1.108E-11	8.318E-12	6.467E-12	5.166E-12	4.217E-12
SW	1.550E-10	6.884E-11	4.170E-11	2.108E-11	1.276E-11	8.553E-12	6.129E-12	4.602E-12	3.578E-12	2.858E-12	2.333E-12
WSW	1.090E-10	4.841E-11	2.933E-11	1.482E-11	8.972E-12	6.015E-12	4.310E-12	3.237E-12	2.517E-12	2.010E-12	1.641E-12
W	1.033E-10	4.589E-11	2.780E-11	1.405E-11	8.504E-12	5.702E-12	4.085E-12	3.068E-12	2.385E-12	1.905E-12	1.555E-12
WNW	1.460E-10	6.486E-11	3.929E-11	1.986E-11	1.202E-11	8.059E-12	5.774E-12	4.336E-12	3.371E-12	2.693E-12	2.198E-12
NW	2.791E-10	1.240E-10	7.511E-11	3.796E-11	2.298E-11	1.541E-11	1.104E-11	8.289E-12	6.445E-12	5.148E-12	4.202E-12
NNW	2.836E-10	1.260E-10	7.632E-11	3.857E-11	2.335E-11	1.565E-11	1.122E-11	8.423E-12	6.549E-12	5.231E-12	4.270E-12
N	4.667E-10	2.073E-10	1.256E-10	6.348E-11	3.842E-11	2.576E-11	1.846E-11	1.386E-11	1.078E-11	8.609E-12	7.027E-12
NNE	3.187E-10	1.416E-10	8.575E-11	4.334E-11	2.623E-11	1.759E-11	1.260E-11	9.463E-12	7.358E-12	5.878E-12	4.797E-12
NE	1.998E-10	8.878E-11	5.378E-11	2.718E-11	1.645E-11	1.103E-11	7.904E-12	5.935E-12	4.614E-12	3.686E-12	3.009E-12
ENE	1.524E-10	6.771E-11	4.102E-11	2.073E-11	1.255E-11	8.413E-12	6.028E-12	4.527E-12	3.520E-12	2.811E-12	2.295E-12
E	1.411E-10	6.266E-11	3.796E-11	1.919E-11	1.161E-11	7.786E-12	5.579E-12	4.189E-12	3.257E-12	2.602E-12	2.124E-12
ESE	2.554E-10	1.135E-10	6.873E-11	3.474E-11	2.103E-11	1.410E-11	1.010E-11	7.586E-12	5.898E-12	4.711E-12	3.846E-12
SE	4.051E-10	1.799E-10	1.090E-10	5.510E-11	3.335E-11	2.236E-11	1.602E-11	1.203E-11	9.353E-12	7.472E-12	6.099E-12
SSE	4.861E-10	2.159E-10	1.308E-10	6.611E-11	4.001E-11	2.683E-11	1.922E-11	1.444E-11	1.122E-11	8.966E-12	7.318E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.849E-08	7.884E-09	2.058E-09	9.244E-10	5.229E-10	2.011E-10	5.818E-11	2.306E-11	1.231E-11	7.621E-12
SSW	2.626E-08	5.379E-09	1.404E-09	6.307E-10	3.568E-10	1.372E-10	3.969E-11	1.573E-11	8.401E-12	5.200E-12
SW	1.453E-08	2.976E-09	7.770E-10	3.490E-10	1.974E-10	7.592E-11	2.196E-11	8.705E-12	4.648E-12	2.877E-12
WSW	1.022E-08	2.093E-09	5.464E-10	2.454E-10	1.388E-10	5.339E-11	1.545E-11	6.122E-12	3.269E-12	2.023E-12
W	9.686E-09	1.984E-09	5.179E-10	2.326E-10	1.316E-10	5.061E-11	1.464E-11	5.802E-12	3.099E-12	1.918E-12
WNW	1.369E-08	2.804E-09	7.321E-10	3.288E-10	1.860E-10	7.153E-11	2.069E-11	8.201E-12	4.380E-12	2.711E-12
NW	2.617E-08	5.361E-09	1.400E-09	6.286E-10	3.556E-10	1.367E-10	3.956E-11	1.568E-11	8.373E-12	5.182E-12
NNW	2.659E-08	5.447E-09	1.422E-09	6.386E-10	3.613E-10	1.389E-10	4.019E-11	1.593E-11	8.507E-12	5.265E-12
N	4.376E-08	8.964E-09	2.340E-09	1.051E-09	5.946E-10	2.286E-10	6.615E-11	2.622E-11	1.400E-11	8.665E-12
NNE	2.988E-08	6.120E-09	1.598E-09	7.176E-10	4.059E-10	1.561E-10	4.516E-11	1.790E-11	9.558E-12	5.916E-12
NE	1.874E-08	3.838E-09	1.002E-09	4.500E-10	2.546E-10	9.790E-11	2.832E-11	1.123E-11	5.994E-12	3.710E-12
ENE	1.429E-08	2.927E-09	7.642E-10	3.432E-10	1.942E-10	7.467E-11	2.160E-11	8.562E-12	4.572E-12	2.830E-12
E	1.323E-08	2.709E-09	7.073E-10	3.177E-10	1.797E-10	6.911E-11	1.999E-11	7.924E-12	4.231E-12	2.619E-12
ESE	2.395E-08	4.906E-09	1.281E-09	5.752E-10	3.254E-10	1.251E-10	3.620E-11	1.435E-11	7.662E-12	4.742E-12
SE	3.798E-08	7.780E-09	2.031E-09	9.122E-10	5.160E-10	1.984E-10	5.741E-11	2.275E-11	1.215E-11	7.521E-12
SSE	4.558E-08	9.335E-09	2.437E-09	1.095E-09	6.192E-10	2.381E-10	6.889E-11	2.730E-11	1.458E-11	9.024E-12

VENTS GROUND LEVEL RELEASES - JAN-JUN 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.26 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.0 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	8.8E-06	8.7E-06	7.8E-06	3.4E-08
A	Site Boundary	SSW	.82	4.6E-06	4.5E-06	4.0E-06	2.1E-08
A	Site Boundary	SW	.97	1.7E-06	1.7E-06	1.5E-06	7.5E-09
A	Site Boundary	WSW	.93	1.4E-06	1.3E-06	1.2E-06	6.1E-09
A	Site Boundary	W	.91	1.3E-06	1.3E-06	1.2E-06	6.0E-09
A	Site Boundary	WNW	.94	1.6E-06	1.6E-06	1.4E-06	7.9E-09
A	Site Boundary	NW	.81	3.7E-06	3.7E-06	3.3E-06	2.2E-08
A	Site Boundary	NNW	.69	7.0E-06	7.0E-06	6.3E-06	3.2E-08
A	Site Boundary	N	.67	1.5E-05	1.5E-05	1.3E-05	5.3E-08
A	Site Boundary	NNE	.60	1.3E-05	1.3E-05	1.2E-05	4.4E-08
A	Site Boundary	NE	.62	1.0E-05	1.0E-05	9.1E-06	2.6E-08
A	Site Boundary	ENE	.59	9.0E-06	8.9E-06	8.1E-06	2.2E-08
A	Site Boundary	E	.53	9.9E-06	9.9E-06	9.0E-06	2.4E-08
A	Site Boundary	ESE	.54	1.3E-05	1.3E-05	1.2E-05	4.2E-08
A	Site Boundary	SE	.65	1.3E-05	1.3E-05	1.2E-05	4.9E-08
A	Site Boundary	SSE	.81	1.0E-05	1.0E-05	9.1E-06	3.8E-08
A	Nearest Res	SW	1.30	8.6E-07	8.5E-07	7.3E-07	3.6E-09
A	Nearest Res	WSW	1.90	2.6E-07	2.6E-07	2.2E-07	1.0E-09
A	Nearest Res	WNW	2.50	1.8E-07	1.8E-07	1.5E-07	7.0E-10
A	Nearest Res	NW	1.20	1.5E-06	1.4E-06	1.3E-06	8.0E-09
A	Nearest Res	NNW	2.00	6.9E-07	6.8E-07	5.7E-07	2.3E-09
A	Nearest Res	NE	1.70	1.2E-06	1.2E-06	1.0E-06	2.4E-09
A	Nearest Res	E	1.90	7.1E-07	7.0E-07	5.9E-07	1.3E-09
A	Nearest Cow	NNW	3.50	2.3E-07	2.3E-07	1.8E-07	6.3E-10
A	Nearest Garde	SW	2.20	2.7E-07	2.7E-07	2.2E-07	1.0E-09
A	Nearest Garde	WSW	2.50	1.5E-07	1.5E-07	1.2E-07	5.2E-10
A	Nearest Garde	WNW	2.70	1.6E-07	1.5E-07	1.2E-07	5.8E-10
A	Nearest Garde	NNW	2.70	3.8E-07	3.7E-07	3.1E-07	1.1E-09
A	Nearest Garde	ENE	1.70	9.7E-07	9.6E-07	8.1E-07	1.8E-09
A	Nearest Garde	E	1.90	7.1E-07	7.0E-07	5.9E-07	1.3E-09
A	Nearest Garde	ESE	2.20	7.5E-07	7.4E-07	6.1E-07	1.7E-09
A	Nearest Garde	SE	1.90	1.3E-06	1.3E-06	1.1E-06	3.7E-09

Atmospheric Diffusion Estimates

Ground Level Releases

July-September 2025

VENTS GROUND LEVEL RELEASES - JUL-SEP 2025
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	7.366E-05	2.365E-05	1.276E-05	6.464E-06	2.637E-06	1.442E-06	9.214E-07	6.472E-07	4.845E-07	3.796E-07	3.077E-07
SSW	3.537E-05	1.175E-05	6.350E-06	3.193E-06	1.280E-06	6.923E-07	4.385E-07	3.060E-07	2.278E-07	1.777E-07	1.435E-07
SW	1.740E-05	5.977E-06	3.255E-06	1.631E-06	6.397E-07	3.408E-07	2.134E-07	1.476E-07	1.090E-07	8.447E-08	6.780E-08
WSW	1.532E-05	5.353E-06	2.901E-06	1.446E-06	5.621E-07	2.974E-07	1.852E-07	1.275E-07	9.381E-08	7.242E-08	5.796E-08
W	1.921E-05	6.480E-06	3.409E-06	1.679E-06	6.537E-07	3.465E-07	2.162E-07	1.490E-07	1.098E-07	8.490E-08	6.803E-08
WNW	3.153E-05	1.085E-05	5.722E-06	2.826E-06	1.116E-06	5.970E-07	3.750E-07	2.599E-07	1.924E-07	1.493E-07	1.200E-07
NW	2.967E-05	1.053E-05	5.725E-06	2.864E-06	1.115E-06	5.900E-07	3.673E-07	2.527E-07	1.858E-07	1.433E-07	1.146E-07
NNW	5.728E-05	1.950E-05	1.061E-05	5.348E-06	2.139E-06	1.155E-06	7.300E-07	5.085E-07	3.780E-07	2.944E-07	2.374E-07
N	1.226E-04	3.953E-05	2.136E-05	1.083E-05	4.422E-06	2.421E-06	1.547E-06	1.087E-06	8.141E-07	6.380E-07	5.173E-07
NNE	9.468E-05	2.938E-05	1.577E-05	8.027E-06	3.331E-06	1.843E-06	1.187E-06	8.392E-07	6.316E-07	4.970E-07	4.044E-07
NE	5.390E-05	1.637E-05	8.481E-06	4.252E-06	1.793E-06	1.003E-06	6.510E-07	4.632E-07	3.504E-07	2.770E-07	2.263E-07
ENE	4.686E-05	1.399E-05	7.337E-06	3.716E-06	1.568E-06	8.772E-07	5.694E-07	4.051E-07	3.064E-07	2.421E-07	1.978E-07
E	6.818E-05	2.026E-05	1.031E-05	5.144E-06	2.194E-06	1.237E-06	8.074E-07	5.769E-07	4.380E-07	3.473E-07	2.845E-07
ESE	9.120E-05	2.702E-05	1.369E-05	6.813E-06	2.917E-06	1.647E-06	1.077E-06	7.710E-07	5.860E-07	4.651E-07	3.812E-07
SE	1.358E-04	4.056E-05	2.072E-05	1.034E-05	4.403E-06	2.478E-06	1.617E-06	1.155E-06	8.761E-07	6.944E-07	5.685E-07
SSE	1.335E-04	4.041E-05	2.100E-05	1.055E-05	4.454E-06	2.493E-06	1.619E-06	1.153E-06	8.724E-07	6.899E-07	5.637E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.561E-07	1.344E-07	8.844E-08	5.178E-08	3.555E-08	2.661E-08	2.103E-08	1.724E-08	1.453E-08	1.250E-08	1.093E-08
SSW	1.190E-07	6.173E-08	4.027E-08	2.332E-08	1.590E-08	1.184E-08	9.315E-09	7.612E-09	6.395E-09	5.487E-09	4.786E-09
SW	5.597E-08	2.850E-08	1.835E-08	1.044E-08	7.039E-09	5.195E-09	4.058E-09	3.296E-09	2.754E-09	2.352E-09	2.043E-09
WSW	4.770E-08	2.400E-08	1.533E-08	8.626E-09	5.778E-09	4.243E-09	3.301E-09	2.672E-09	2.226E-09	1.896E-09	1.643E-09
W	5.611E-08	2.853E-08	1.836E-08	1.045E-08	7.051E-09	5.210E-09	4.075E-09	3.314E-09	2.773E-09	2.371E-09	2.062E-09
WNW	9.914E-08	5.060E-08	3.265E-08	1.864E-08	1.260E-08	9.326E-09	7.303E-09	5.945E-09	4.978E-09	4.260E-09	3.707E-09
NW	9.424E-08	4.719E-08	3.002E-08	1.676E-08	1.114E-08	8.131E-09	6.293E-09	5.071E-09	4.209E-09	3.572E-09	3.086E-09
NNW	1.967E-07	1.014E-07	6.584E-08	3.787E-08	2.569E-08	1.906E-08	1.494E-08	1.218E-08	1.021E-08	8.738E-09	7.606E-09
N	4.306E-07	2.261E-07	1.487E-07	8.710E-08	5.982E-08	4.478E-08	3.539E-08	2.903E-08	2.446E-08	2.104E-08	1.840E-08
NNE	3.377E-07	1.794E-07	1.189E-07	7.037E-08	4.866E-08	3.661E-08	2.906E-08	2.391E-08	2.021E-08	1.743E-08	1.528E-08
NE	1.896E-07	1.020E-07	6.827E-08	4.091E-08	2.853E-08	2.162E-08	1.725E-08	1.426E-08	1.210E-08	1.048E-08	9.209E-09
ENE	1.657E-07	8.906E-08	5.953E-08	3.562E-08	2.482E-08	1.879E-08	1.498E-08	1.238E-08	1.050E-08	9.080E-09	7.978E-09
E	2.389E-07	1.296E-07	8.721E-08	5.264E-08	3.691E-08	2.806E-08	2.246E-08	1.862E-08	1.583E-08	1.373E-08	1.209E-08
ESE	3.204E-07	1.743E-07	1.175E-07	7.107E-08	4.990E-08	3.799E-08	3.043E-08	2.525E-08	2.148E-08	1.864E-08	1.642E-08
SE	4.773E-07	2.587E-07	1.739E-07	1.049E-07	7.349E-08	5.586E-08	4.469E-08	3.703E-08	3.149E-08	2.730E-08	2.403E-08
SSE	4.725E-07	2.544E-07	1.703E-07	1.021E-07	7.124E-08	5.398E-08	4.308E-08	3.562E-08	3.023E-08	2.617E-08	2.301E-08

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.238E-05	2.956E-06	9.507E-07	4.910E-07	3.099E-07	1.410E-07	5.272E-08	2.676E-08	1.729E-08	1.252E-08
SSW	6.148E-06	1.444E-06	4.532E-07	2.311E-07	1.446E-07	6.492E-08	2.379E-08	1.191E-08	7.635E-09	5.496E-09
SW	3.138E-06	7.272E-07	2.211E-07	1.107E-07	6.836E-08	3.009E-08	1.069E-08	5.232E-09	3.307E-09	2.357E-09
WSW	2.799E-06	6.409E-07	1.920E-07	9.528E-08	5.844E-08	2.541E-08	8.850E-09	4.275E-09	2.682E-09	1.900E-09
W	3.323E-06	7.451E-07	2.241E-07	1.115E-07	6.861E-08	3.014E-08	1.070E-08	5.247E-09	3.325E-09	2.376E-09
WNW	5.575E-06	1.265E-06	3.882E-07	1.953E-07	1.210E-07	5.341E-08	1.907E-08	9.391E-09	5.965E-09	4.268E-09
NW	5.521E-06	1.270E-06	3.809E-07	1.887E-07	1.156E-07	5.001E-08	1.721E-08	8.199E-09	5.092E-09	3.580E-09
NNW	1.025E-05	2.415E-06	7.546E-07	3.835E-07	2.392E-07	1.068E-07	3.867E-08	1.918E-08	1.222E-08	8.754E-09
N	2.072E-05	4.956E-06	1.596E-06	8.251E-07	5.209E-07	2.372E-07	8.868E-08	4.504E-08	2.911E-08	2.108E-08
NNE	1.536E-05	3.714E-06	1.223E-06	6.397E-07	4.072E-07	1.877E-07	7.151E-08	3.680E-08	2.397E-08	1.746E-08
NE	8.354E-06	1.988E-06	6.696E-07	3.547E-07	2.277E-07	1.065E-07	4.149E-08	2.171E-08	1.429E-08	1.049E-08
ENE	7.207E-06	1.738E-06	5.857E-07	3.101E-07	1.990E-07	9.296E-08	3.613E-08	1.887E-08	1.240E-08	9.091E-09
E	1.023E-05	2.424E-06	8.297E-07	4.432E-07	2.862E-07	1.351E-07	5.333E-08	2.818E-08	1.865E-08	1.375E-08
ESE	1.360E-05	3.219E-06	1.107E-06	5.928E-07	3.835E-07	1.815E-07	7.197E-08	3.814E-08	2.529E-08	1.866E-08
SE	2.052E-05	4.867E-06	1.662E-06	8.864E-07	5.720E-07	2.696E-07	1.063E-07	5.609E-08	3.711E-08	2.733E-08
SSE	2.067E-05	4.937E-06	1.666E-06	8.830E-07	5.673E-07	2.655E-07	1.035E-07	5.422E-08	3.570E-08	2.620E-08

VENTS GROUND LEVEL RELEASES - JUL-SEP 2025
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	7.349E-05	2.354E-05	1.267E-05	6.406E-06	2.601E-06	1.416E-06	9.001E-07	6.292E-07	4.687E-07	3.655E-07	2.948E-07
SSW	3.529E-05	1.170E-05	6.310E-06	3.166E-06	1.264E-06	6.804E-07	4.290E-07	2.980E-07	2.209E-07	1.715E-07	1.378E-07
SW	1.737E-05	5.956E-06	3.238E-06	1.619E-06	6.328E-07	3.359E-07	2.096E-07	1.444E-07	1.063E-07	8.203E-08	6.561E-08
WSW	1.530E-05	5.338E-06	2.888E-06	1.438E-06	5.570E-07	2.939E-07	1.824E-07	1.252E-07	9.183E-08	7.068E-08	5.639E-08
W	1.918E-05	6.458E-06	3.392E-06	1.668E-06	6.468E-07	3.416E-07	2.123E-07	1.457E-07	1.070E-07	8.239E-08	6.575E-08
WNW	3.147E-05	1.082E-05	5.693E-06	2.807E-06	1.104E-06	5.885E-07	3.682E-07	2.542E-07	1.874E-07	1.448E-07	1.159E-07
NW	2.964E-05	1.051E-05	5.707E-06	2.851E-06	1.107E-06	5.848E-07	3.633E-07	2.493E-07	1.829E-07	1.408E-07	1.123E-07
NNW	5.718E-05	1.943E-05	1.056E-05	5.313E-06	2.118E-06	1.139E-06	7.176E-07	4.980E-07	3.689E-07	2.863E-07	2.300E-07
N	1.223E-04	3.937E-05	2.123E-05	1.074E-05	4.367E-06	2.381E-06	1.515E-06	1.060E-06	7.900E-07	6.164E-07	4.975E-07
NNE	9.443E-05	2.923E-05	1.565E-05	7.947E-06	3.281E-06	1.806E-06	1.157E-06	8.135E-07	6.089E-07	4.767E-07	3.858E-07
NE	5.374E-05	1.627E-05	8.405E-06	4.202E-06	1.761E-06	9.786E-07	6.314E-07	4.464E-07	3.357E-07	2.637E-07	2.141E-07
ENE	4.672E-05	1.391E-05	7.272E-06	3.673E-06	1.541E-06	8.564E-07	5.525E-07	3.906E-07	2.937E-07	2.307E-07	1.872E-07
E	6.795E-05	2.013E-05	1.021E-05	5.077E-06	2.152E-06	1.204E-06	7.811E-07	5.544E-07	4.181E-07	3.293E-07	2.679E-07
ESE	9.088E-05	2.684E-05	1.355E-05	6.722E-06	2.858E-06	1.603E-06	1.041E-06	7.398E-07	5.585E-07	4.402E-07	3.583E-07
SE	1.354E-04	4.029E-05	2.052E-05	1.021E-05	4.317E-06	2.414E-06	1.564E-06	1.109E-06	8.363E-07	6.584E-07	5.354E-07
SSE	1.331E-04	4.016E-05	2.081E-05	1.042E-05	4.373E-06	2.432E-06	1.570E-06	1.110E-06	8.350E-07	6.561E-07	5.327E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.442E-07	1.252E-07	8.039E-08	4.492E-08	2.947E-08	2.111E-08	1.599E-08	1.258E-08	1.019E-08	8.429E-09	7.098E-09
SSW	1.138E-07	5.772E-08	3.682E-08	2.040E-08	1.333E-08	9.517E-09	7.191E-09	5.650E-09	4.568E-09	3.776E-09	3.176E-09
SW	5.396E-08	2.698E-08	1.706E-08	9.369E-09	6.102E-09	4.354E-09	3.291E-09	2.589E-09	2.096E-09	1.735E-09	1.462E-09
WSW	4.626E-08	2.293E-08	1.442E-08	7.874E-09	5.122E-09	3.655E-09	2.764E-09	2.177E-09	1.765E-09	1.464E-09	1.236E-09
W	5.401E-08	2.692E-08	1.699E-08	9.293E-09	6.034E-09	4.293E-09	3.236E-09	2.539E-09	2.052E-09	1.695E-09	1.426E-09
WNW	9.539E-08	4.768E-08	3.013E-08	1.650E-08	1.071E-08	7.611E-09	5.731E-09	4.490E-09	3.623E-09	2.990E-09	2.512E-09
NW	9.211E-08	4.559E-08	2.865E-08	1.563E-08	1.016E-08	7.247E-09	5.487E-09	4.327E-09	3.517E-09	2.924E-09	2.475E-09
NNW	1.898E-07	9.605E-08	6.124E-08	3.397E-08	2.224E-08	1.593E-08	1.208E-08	9.533E-09	7.741E-09	6.427E-09	5.431E-09
N	4.123E-07	2.117E-07	1.362E-07	7.638E-08	5.029E-08	3.615E-08	2.746E-08	2.168E-08	1.761E-08	1.462E-08	1.235E-08
NNE	3.204E-07	1.658E-07	1.071E-07	6.018E-08	3.960E-08	2.840E-08	2.152E-08	1.693E-08	1.370E-08	1.134E-08	9.539E-09
NE	1.783E-07	9.299E-08	6.033E-08	3.404E-08	2.240E-08	1.604E-08	1.212E-08	9.503E-09	7.664E-09	6.315E-09	5.293E-09
ENE	1.559E-07	8.130E-08	5.274E-08	2.976E-08	1.959E-08	1.403E-08	1.061E-08	8.328E-09	6.722E-09	5.543E-09	4.651E-09
E	2.235E-07	1.173E-07	7.634E-08	4.321E-08	2.846E-08	2.037E-08	1.538E-08	1.205E-08	9.704E-09	7.983E-09	6.681E-09
ESE	2.991E-07	1.572E-07	1.024E-07	5.802E-08	3.821E-08	2.735E-08	2.063E-08	1.615E-08	1.300E-08	1.069E-08	8.936E-09
SE	4.465E-07	2.341E-07	1.523E-07	8.613E-08	5.670E-08	4.058E-08	3.062E-08	2.399E-08	1.931E-08	1.589E-08	1.329E-08
SSE	4.437E-07	2.315E-07	1.502E-07	8.474E-08	5.574E-08	3.989E-08	3.012E-08	2.361E-08	1.903E-08	1.567E-08	1.313E-08

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.230E-05	2.920E-06	9.293E-07	4.752E-07	2.970E-07	1.317E-07	4.594E-08	2.129E-08	1.264E-08	8.457E-09
SSW	6.111E-06	1.427E-06	4.437E-07	2.241E-07	1.389E-07	6.090E-08	2.090E-08	9.603E-09	5.678E-09	3.788E-09
SW	3.123E-06	7.201E-07	2.172E-07	1.079E-07	6.616E-08	2.856E-08	9.626E-09	4.395E-09	2.602E-09	1.741E-09
WSW	2.788E-06	6.358E-07	1.892E-07	9.330E-08	5.687E-08	2.433E-08	8.105E-09	3.690E-09	2.188E-09	1.469E-09
W	3.307E-06	7.381E-07	2.201E-07	1.087E-07	6.633E-08	2.853E-08	9.554E-09	4.334E-09	2.553E-09	1.701E-09
WNW	5.548E-06	1.253E-06	3.813E-07	1.903E-07	1.169E-07	5.048E-08	1.696E-08	7.685E-09	4.514E-09	3.000E-09
NW	5.505E-06	1.263E-06	3.767E-07	1.858E-07	1.133E-07	4.840E-08	1.609E-08	7.319E-09	4.350E-09	2.933E-09
NNW	1.020E-05	2.393E-06	7.421E-07	3.743E-07	2.318E-07	1.014E-07	3.482E-08	1.608E-08	9.579E-09	6.447E-09
N	2.060E-05	4.901E-06	1.564E-06	8.009E-07	5.012E-07	2.227E-07	7.809E-08	3.644E-08	2.178E-08	1.466E-08
NNE	1.525E-05	3.662E-06	1.193E-06	6.170E-07	3.885E-07	1.740E-07	6.145E-08	2.863E-08	1.701E-08	1.137E-08
NE	8.285E-06	1.956E-06	6.500E-07	3.399E-07	2.155E-07	9.743E-08	3.471E-08	1.616E-08	9.549E-09	6.336E-09
ENE	7.147E-06	1.710E-06	5.688E-07	2.974E-07	1.885E-07	8.518E-08	3.034E-08	1.414E-08	8.368E-09	5.562E-09
E	1.013E-05	2.381E-06	8.033E-07	4.232E-07	2.696E-07	1.227E-07	4.402E-08	2.053E-08	1.211E-08	8.011E-09
ESE	1.347E-05	3.159E-06	1.070E-06	5.652E-07	3.606E-07	1.644E-07	5.909E-08	2.756E-08	1.623E-08	1.072E-08
SE	2.033E-05	4.780E-06	1.609E-06	8.466E-07	5.389E-07	2.449E-07	8.775E-08	4.090E-08	2.410E-08	1.594E-08
SSE	2.049E-05	4.855E-06	1.616E-06	8.455E-07	5.363E-07	2.425E-07	8.641E-08	4.021E-08	2.373E-08	1.573E-08

VENTS GROUND LEVEL RELEASES - JUL-SEP 2025
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	6.967E-05	2.157E-05	1.135E-05	5.644E-06	2.230E-06	1.188E-06	7.414E-07	5.099E-07	3.745E-07	2.882E-07	2.298E-07
SSW	3.345E-05	1.072E-05	5.649E-06	2.788E-06	1.083E-06	5.704E-07	3.530E-07	2.412E-07	1.762E-07	1.350E-07	1.072E-07
SW	1.646E-05	5.453E-06	2.897E-06	1.425E-06	5.416E-07	2.811E-07	1.720E-07	1.165E-07	8.446E-08	6.430E-08	5.079E-08
WSW	1.449E-05	4.885E-06	2.582E-06	1.264E-06	4.761E-07	2.454E-07	1.494E-07	1.007E-07	7.276E-08	5.521E-08	4.348E-08
W	1.818E-05	5.912E-06	3.034E-06	1.467E-06	5.535E-07	2.858E-07	1.742E-07	1.176E-07	8.506E-08	6.462E-08	5.094E-08
WNW	2.983E-05	9.901E-06	5.092E-06	2.469E-06	9.448E-07	4.924E-07	3.022E-07	2.051E-07	1.490E-07	1.136E-07	8.984E-08
NW	2.807E-05	9.610E-06	5.097E-06	2.504E-06	9.450E-07	4.873E-07	2.966E-07	1.999E-07	1.443E-07	1.095E-07	8.616E-08
NNW	5.418E-05	1.779E-05	9.443E-06	4.673E-06	1.812E-06	9.524E-07	5.884E-07	4.015E-07	2.929E-07	2.242E-07	1.779E-07
N	1.159E-04	3.606E-05	1.900E-05	9.456E-06	3.742E-06	1.995E-06	1.246E-06	8.573E-07	6.298E-07	4.850E-07	3.868E-07
NNE	8.954E-05	2.679E-05	1.403E-05	7.007E-06	2.817E-06	1.517E-06	9.546E-07	6.607E-07	4.877E-07	3.770E-07	3.017E-07
NE	5.097E-05	1.492E-05	7.538E-06	3.710E-06	1.515E-06	8.245E-07	5.228E-07	3.641E-07	2.701E-07	2.097E-07	1.684E-07
ENE	4.431E-05	1.276E-05	6.522E-06	3.242E-06	1.325E-06	7.214E-07	4.573E-07	3.184E-07	2.362E-07	1.833E-07	1.472E-07
E	6.446E-05	1.847E-05	9.166E-06	4.486E-06	1.853E-06	1.016E-06	6.479E-07	4.531E-07	3.373E-07	2.626E-07	2.114E-07
ESE	8.623E-05	2.463E-05	1.217E-05	5.941E-06	2.463E-06	1.354E-06	8.643E-07	6.052E-07	4.510E-07	3.514E-07	2.832E-07
SE	1.284E-04	3.697E-05	1.841E-05	9.019E-06	3.719E-06	2.037E-06	1.297E-06	9.067E-07	6.746E-07	5.250E-07	4.225E-07
SSE	1.262E-04	3.684E-05	1.866E-05	9.204E-06	3.763E-06	2.050E-06	1.300E-06	9.059E-07	6.723E-07	5.220E-07	4.194E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.883E-07	9.284E-08	5.779E-08	3.088E-08	1.963E-08	1.373E-08	1.019E-08	7.893E-09	6.300E-09	5.148E-09	4.284E-09
SSW	8.759E-08	4.268E-08	2.636E-08	1.394E-08	8.811E-09	6.134E-09	4.541E-09	3.506E-09	2.793E-09	2.278E-09	1.893E-09
SW	4.129E-08	1.977E-08	1.207E-08	6.291E-09	3.942E-09	2.728E-09	2.010E-09	1.547E-09	1.229E-09	1.001E-09	8.304E-10
WSW	3.525E-08	1.670E-08	1.012E-08	5.223E-09	3.257E-09	2.246E-09	1.651E-09	1.268E-09	1.006E-09	8.182E-10	6.784E-10
W	4.137E-08	1.978E-08	1.206E-08	6.278E-09	3.932E-09	2.720E-09	2.004E-09	1.542E-09	1.225E-09	9.966E-10	8.268E-10
WNW	7.309E-08	3.506E-08	2.143E-08	1.118E-08	7.010E-09	4.852E-09	3.575E-09	2.750E-09	2.183E-09	1.776E-09	1.472E-09
NW	6.979E-08	3.294E-08	1.990E-08	1.021E-08	6.331E-09	4.347E-09	3.184E-09	2.439E-09	1.931E-09	1.567E-09	1.298E-09
NNW	1.451E-07	7.036E-08	4.331E-08	2.280E-08	1.437E-08	9.984E-09	7.381E-09	5.694E-09	4.533E-09	3.696E-09	3.072E-09
N	3.170E-07	1.564E-07	9.740E-08	5.210E-08	3.316E-08	2.321E-08	1.725E-08	1.337E-08	1.068E-08	8.736E-09	7.277E-09
NNE	2.480E-07	1.236E-07	7.749E-08	4.178E-08	2.672E-08	1.876E-08	1.397E-08	1.084E-08	8.668E-09	7.092E-09	5.909E-09
NE	1.389E-07	7.003E-08	4.425E-08	2.410E-08	1.550E-08	1.093E-08	8.165E-09	6.349E-09	5.084E-09	4.164E-09	3.472E-09
ENE	1.214E-07	6.115E-08	3.861E-08	2.101E-08	1.351E-08	9.517E-09	7.107E-09	5.525E-09	4.424E-09	3.623E-09	3.021E-09
E	1.747E-07	8.878E-08	5.637E-08	3.089E-08	1.995E-08	1.410E-08	1.055E-08	8.217E-09	6.586E-09	5.399E-09	4.504E-09
ESE	2.342E-07	1.193E-07	7.584E-08	4.164E-08	2.692E-08	1.904E-08	1.426E-08	1.111E-08	8.905E-09	7.300E-09	6.091E-09
SE	3.491E-07	1.772E-07	1.124E-07	6.156E-08	3.973E-08	2.807E-08	2.100E-08	1.635E-08	1.310E-08	1.074E-08	8.957E-09
SSE	3.459E-07	1.746E-07	1.103E-07	6.010E-08	3.867E-08	2.727E-08	2.037E-08	1.584E-08	1.268E-08	1.038E-08	8.658E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.108E-05	2.526E-06	7.680E-07	3.803E-07	2.317E-07	9.848E-08	3.186E-08	1.389E-08	7.944E-09	5.169E-09
SSW	5.504E-06	1.234E-06	3.663E-07	1.791E-07	1.082E-07	4.541E-08	1.442E-08	6.211E-09	3.530E-09	2.288E-09
SW	2.810E-06	6.221E-07	1.789E-07	8.593E-08	5.127E-08	2.113E-08	6.531E-09	2.765E-09	1.558E-09	1.005E-09
WSW	2.508E-06	5.487E-07	1.555E-07	7.406E-08	4.391E-08	1.790E-08	5.437E-09	2.278E-09	1.278E-09	8.221E-10
W	2.977E-06	6.376E-07	1.813E-07	8.657E-08	5.145E-08	2.115E-08	6.520E-09	2.757E-09	1.553E-09	1.001E-09
WNW	4.995E-06	1.082E-06	3.141E-07	1.516E-07	9.068E-08	3.745E-08	1.160E-08	4.916E-09	2.770E-09	1.784E-09
NW	4.948E-06	1.088E-06	3.088E-07	1.469E-07	8.700E-08	3.533E-08	1.064E-08	4.411E-09	2.459E-09	1.575E-09
NNW	9.178E-06	2.066E-06	6.107E-07	2.978E-07	1.795E-07	7.495E-08	2.361E-08	1.011E-08	5.734E-09	3.713E-09
N	1.855E-05	4.235E-06	1.290E-06	6.396E-07	3.900E-07	1.659E-07	5.375E-08	2.348E-08	1.346E-08	8.773E-09
NNE	1.374E-05	3.170E-06	9.871E-07	4.950E-07	3.041E-07	1.307E-07	4.302E-08	1.897E-08	1.091E-08	7.121E-09
NE	7.477E-06	1.696E-06	5.397E-07	2.739E-07	1.697E-07	7.387E-08	2.476E-08	1.104E-08	6.386E-09	4.180E-09
ENE	6.450E-06	1.483E-06	4.722E-07	2.395E-07	1.483E-07	6.452E-08	2.159E-08	9.617E-09	5.558E-09	3.637E-09
E	9.153E-06	2.066E-06	6.682E-07	3.419E-07	2.130E-07	9.347E-08	3.169E-08	1.424E-08	8.263E-09	5.419E-09
ESE	1.217E-05	2.743E-06	8.912E-07	4.572E-07	2.852E-07	1.255E-07	4.270E-08	1.923E-08	1.117E-08	7.328E-09
SE	1.836E-05	4.149E-06	1.338E-06	6.839E-07	4.257E-07	1.866E-07	6.316E-08	2.835E-08	1.644E-08	1.078E-08
SSE	1.850E-05	4.211E-06	1.342E-06	6.818E-07	4.226E-07	1.841E-07	6.174E-08	2.755E-08	1.593E-08	1.043E-08

VENTS GROUND LEVEL RELEASES - JUL-SEP 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.956E-07	6.615E-08	3.397E-08	1.615E-08	5.800E-09	2.877E-09	1.694E-09	1.109E-09	7.804E-10	5.783E-10	4.457E-10
SSW	1.080E-07	3.652E-08	1.875E-08	8.913E-09	3.202E-09	1.588E-09	9.349E-10	6.122E-10	4.308E-10	3.192E-10	2.460E-10
SW	6.054E-08	2.047E-08	1.051E-08	4.997E-09	1.795E-09	8.902E-10	5.242E-10	3.432E-10	2.415E-10	1.790E-10	1.379E-10
WSW	6.341E-08	2.144E-08	1.101E-08	5.234E-09	1.880E-09	9.324E-10	5.490E-10	3.595E-10	2.530E-10	1.875E-10	1.445E-10
W	7.934E-08	2.683E-08	1.378E-08	6.549E-09	2.352E-09	1.167E-09	6.869E-10	4.498E-10	3.165E-10	2.346E-10	1.807E-10
WNW	1.250E-07	4.227E-08	2.170E-08	1.032E-08	3.706E-09	1.838E-09	1.082E-09	7.087E-10	4.987E-10	3.696E-10	2.848E-10
NW	1.779E-07	6.017E-08	3.089E-08	1.469E-08	5.276E-09	2.616E-09	1.541E-09	1.009E-09	7.098E-10	5.260E-10	4.054E-10
NNW	2.554E-07	8.638E-08	4.435E-08	2.108E-08	7.574E-09	3.756E-09	2.212E-09	1.448E-09	1.019E-09	7.551E-10	5.819E-10
N	4.225E-07	1.429E-07	7.336E-08	3.488E-08	1.253E-08	6.213E-09	3.658E-09	2.396E-09	1.686E-09	1.249E-09	9.626E-10
NNE	1.990E-07	6.729E-08	3.455E-08	1.643E-08	5.900E-09	2.926E-09	1.723E-09	1.128E-09	7.938E-10	5.883E-10	4.533E-10
NE	7.480E-08	2.529E-08	1.299E-08	6.174E-09	2.218E-09	1.100E-09	6.476E-10	4.241E-10	2.984E-10	2.211E-10	1.704E-10
ENE	6.690E-08	2.262E-08	1.162E-08	5.523E-09	1.984E-09	9.838E-10	5.793E-10	3.793E-10	2.669E-10	1.978E-10	1.524E-10
E	7.640E-08	2.583E-08	1.326E-08	6.306E-09	2.265E-09	1.123E-09	6.614E-10	4.331E-10	3.048E-10	2.259E-10	1.740E-10
ESE	8.929E-08	3.019E-08	1.550E-08	7.370E-09	2.647E-09	1.313E-09	7.731E-10	5.062E-10	3.562E-10	2.640E-10	2.034E-10
SE	1.508E-07	5.099E-08	2.618E-08	1.245E-08	4.471E-09	2.217E-09	1.305E-09	8.548E-10	6.015E-10	4.458E-10	3.435E-10
SSE	1.710E-07	5.784E-08	2.970E-08	1.412E-08	5.071E-09	2.515E-09	1.481E-09	9.697E-10	6.823E-10	5.057E-10	3.897E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	3.541E-10	1.573E-10	9.528E-11	4.816E-11	2.915E-11	1.954E-11	1.400E-11	1.052E-11	8.176E-12	6.531E-12	5.331E-12
SSW	1.954E-10	8.682E-11	5.259E-11	2.658E-11	1.609E-11	1.079E-11	7.730E-12	5.804E-12	4.513E-12	3.605E-12	2.942E-12
SW	1.096E-10	4.868E-11	2.949E-11	1.490E-11	9.020E-12	6.048E-12	4.334E-12	3.254E-12	2.530E-12	2.021E-12	1.650E-12
WSW	1.148E-10	5.098E-11	3.088E-11	1.561E-11	9.448E-12	6.335E-12	4.539E-12	3.408E-12	2.650E-12	2.117E-12	1.728E-12
W	1.436E-10	6.379E-11	3.864E-11	1.953E-11	1.182E-11	7.926E-12	5.679E-12	4.265E-12	3.316E-12	2.649E-12	2.162E-12
WNW	2.262E-10	1.005E-10	6.088E-11	3.077E-11	1.863E-11	1.249E-11	8.948E-12	6.719E-12	5.224E-12	4.173E-12	3.406E-12
NW	3.220E-10	1.431E-10	8.666E-11	4.380E-11	2.651E-11	1.778E-11	1.274E-11	9.564E-12	7.436E-12	5.940E-12	4.849E-12
NNW	4.623E-10	2.054E-10	1.244E-10	6.288E-11	3.806E-11	2.552E-11	1.828E-11	1.373E-11	1.068E-11	8.527E-12	6.960E-12
N	7.648E-10	3.397E-10	2.058E-10	1.040E-10	6.296E-11	4.221E-11	3.025E-11	2.271E-11	1.766E-11	1.411E-11	1.151E-11
NNE	3.602E-10	1.600E-10	9.692E-11	4.899E-11	2.965E-11	1.988E-11	1.424E-11	1.070E-11	8.316E-12	6.643E-12	5.422E-12
NE	1.354E-10	6.014E-11	3.643E-11	1.841E-11	1.115E-11	7.473E-12	5.355E-12	4.021E-12	3.126E-12	2.497E-12	2.038E-12
ENE	1.211E-10	5.379E-11	3.258E-11	1.647E-11	9.968E-12	6.684E-12	4.789E-12	3.596E-12	2.796E-12	2.234E-12	1.823E-12
E	1.383E-10	6.142E-11	3.721E-11	1.881E-11	1.138E-11	7.632E-12	5.469E-12	4.106E-12	3.193E-12	2.550E-12	2.082E-12
ESE	1.616E-10	7.179E-11	4.349E-11	2.198E-11	1.330E-11	8.920E-12	6.392E-12	4.799E-12	3.732E-12	2.981E-12	2.433E-12
SE	2.729E-10	1.212E-10	7.344E-11	3.712E-11	2.247E-11	1.506E-11	1.079E-11	8.105E-12	6.302E-12	5.034E-12	4.109E-12
SSE	3.096E-10	1.375E-10	8.330E-11	4.211E-11	2.548E-11	1.709E-11	1.224E-11	9.194E-12	7.148E-12	5.710E-12	4.661E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.320E-08	6.800E-09	1.775E-09	7.973E-10	4.511E-10	1.735E-10	5.018E-11	1.989E-11	1.062E-11	6.574E-12
SSW	1.833E-08	3.754E-09	9.799E-10	4.401E-10	2.490E-10	9.574E-11	2.770E-11	1.098E-11	5.862E-12	3.629E-12
SW	1.027E-08	2.104E-09	5.494E-10	2.467E-10	1.396E-10	5.368E-11	1.553E-11	6.155E-12	3.287E-12	2.034E-12
WSW	1.076E-08	2.204E-09	5.755E-10	2.584E-10	1.462E-10	5.623E-11	1.627E-11	6.447E-12	3.443E-12	2.131E-12
W	1.346E-08	2.758E-09	7.200E-10	3.234E-10	1.829E-10	7.035E-11	2.035E-11	8.066E-12	4.307E-12	2.666E-12
WNW	2.121E-08	4.345E-09	1.134E-09	5.095E-10	2.882E-10	1.108E-10	3.206E-11	1.271E-11	6.786E-12	4.201E-12
NW	3.020E-08	6.185E-09	1.615E-09	7.252E-10	4.103E-10	1.578E-10	4.564E-11	1.809E-11	9.660E-12	5.979E-12
NNW	4.335E-08	8.879E-09	2.318E-09	1.041E-09	5.889E-10	2.265E-10	6.552E-11	2.597E-11	1.387E-11	8.583E-12
N	7.171E-08	1.469E-08	3.835E-09	1.722E-09	9.743E-10	3.747E-10	1.084E-10	4.296E-11	2.294E-11	1.420E-11
NNE	3.377E-08	6.917E-09	1.806E-09	8.110E-10	4.588E-10	1.764E-10	5.104E-11	2.023E-11	1.080E-11	6.687E-12
NE	1.269E-08	2.600E-09	6.788E-10	3.049E-10	1.725E-10	6.632E-11	1.919E-11	7.605E-12	4.061E-12	2.514E-12
ENE	1.135E-08	2.326E-09	6.071E-10	2.727E-10	1.543E-10	5.932E-11	1.716E-11	6.802E-12	3.632E-12	2.248E-12
E	1.297E-08	2.656E-09	6.933E-10	3.114E-10	1.761E-10	6.774E-11	1.960E-11	7.767E-12	4.148E-12	2.567E-12
ESE	1.515E-08	3.104E-09	8.103E-10	3.639E-10	2.059E-10	7.917E-11	2.290E-11	9.078E-12	4.848E-12	3.000E-12
SE	2.559E-08	5.242E-09	1.368E-09	6.146E-10	3.477E-10	1.337E-10	3.868E-11	1.533E-11	8.186E-12	5.067E-12
SSE	2.903E-08	5.946E-09	1.552E-09	6.971E-10	3.944E-10	1.517E-10	4.387E-11	1.739E-11	9.286E-12	5.748E-12

VENTS GROUND LEVEL RELEASES - JUL-SEP 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.26 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.0 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	1.1E-05	1.1E-05	9.7E-06	2.9E-08
A	Site Boundary	SSW	.82	5.1E-06	5.0E-06	4.5E-06	1.5E-08
A	Site Boundary	SW	.97	1.7E-06	1.7E-06	1.5E-06	5.3E-09
A	Site Boundary	WSW	.93	1.7E-06	1.7E-06	1.5E-06	6.4E-09
A	Site Boundary	W	.91	2.1E-06	2.1E-06	1.8E-06	8.3E-09
A	Site Boundary	WNW	.94	3.3E-06	3.3E-06	2.9E-06	1.2E-08
A	Site Boundary	NW	.81	4.7E-06	4.7E-06	4.2E-06	2.5E-08
A	Site Boundary	NNW	.69	1.2E-05	1.2E-05	1.1E-05	5.1E-08
A	Site Boundary	N	.67	2.5E-05	2.5E-05	2.2E-05	8.8E-08
A	Site Boundary	NNE	.60	2.2E-05	2.2E-05	2.0E-05	5.0E-08
A	Site Boundary	NE	.62	1.1E-05	1.1E-05	1.0E-05	1.8E-08
A	Site Boundary	ENE	.59	1.1E-05	1.1E-05	9.7E-06	1.7E-08
A	Site Boundary	E	.53	1.9E-05	1.8E-05	1.7E-05	2.4E-08
A	Site Boundary	ESE	.54	2.4E-05	2.4E-05	2.2E-05	2.7E-08
A	Site Boundary	SE	.65	2.6E-05	2.6E-05	2.3E-05	3.3E-08
A	Site Boundary	SSE	.81	1.7E-05	1.7E-05	1.5E-05	2.4E-08
A	Nearest Res	SW	1.30	8.8E-07	8.8E-07	7.6E-07	2.6E-09
A	Nearest Res	WSW	1.90	3.3E-07	3.3E-07	2.8E-07	1.1E-09
A	Nearest Res	WNW	2.50	3.8E-07	3.7E-07	3.0E-07	1.1E-09
A	Nearest Res	NW	1.20	1.9E-06	1.9E-06	1.6E-06	9.2E-09
A	Nearest Res	NNW	2.00	1.2E-06	1.1E-06	9.5E-07	3.8E-09
A	Nearest Res	NE	1.70	1.4E-06	1.4E-06	1.2E-06	1.6E-09
A	Nearest Res	E	1.90	1.4E-06	1.3E-06	1.1E-06	1.3E-09
A	Nearest Cow	NNW	3.50	3.8E-07	3.7E-07	2.9E-07	1.0E-09
A	Nearest Garde	SW	2.20	2.8E-07	2.7E-07	2.3E-07	7.1E-10
A	Nearest Garde	WSW	2.50	1.9E-07	1.8E-07	1.5E-07	5.5E-10
A	Nearest Garde	WNW	2.70	3.2E-07	3.1E-07	2.6E-07	9.0E-10
A	Nearest Garde	NNW	2.70	6.3E-07	6.1E-07	5.0E-07	1.8E-09
A	Nearest Garde	ENE	1.70	1.2E-06	1.2E-06	1.0E-06	1.5E-09
A	Nearest Garde	E	1.90	1.4E-06	1.3E-06	1.1E-06	1.3E-09
A	Nearest Garde	ESE	2.20	1.4E-06	1.3E-06	1.1E-06	1.0E-09
A	Nearest Garde	SE	1.90	2.7E-06	2.7E-06	2.3E-06	2.5E-09

Atmospheric Diffusion Estimates

Ground Level Releases

October-December 2025

VENTS GROUND LEVEL RELEASES - OCT-DEC 2025
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	9.981E-05	3.141E-05	1.638E-05	8.179E-06	3.399E-06	1.884E-06	1.215E-06	8.599E-07	6.479E-07	5.104E-07	4.157E-07
SSW	4.370E-05	1.408E-05	7.517E-06	3.786E-06	1.550E-06	8.505E-07	5.444E-07	3.830E-07	2.871E-07	2.252E-07	1.827E-07
SW	1.551E-05	5.297E-06	2.833E-06	1.415E-06	5.690E-07	3.084E-07	1.956E-07	1.366E-07	1.018E-07	7.941E-08	6.414E-08
WSW	2.437E-05	7.838E-06	4.208E-06	2.129E-06	8.711E-07	4.774E-07	3.053E-07	2.146E-07	1.607E-07	1.260E-07	1.022E-07
W	2.171E-05	7.403E-06	3.909E-06	1.940E-06	7.755E-07	4.185E-07	2.645E-07	1.842E-07	1.369E-07	1.066E-07	8.598E-08
WNW	2.310E-05	8.056E-06	4.312E-06	2.149E-06	8.507E-07	4.558E-07	2.865E-07	1.986E-07	1.470E-07	1.141E-07	9.169E-08
NW	4.940E-05	1.621E-05	8.607E-06	4.311E-06	1.762E-06	9.655E-07	6.175E-07	4.341E-07	3.253E-07	2.550E-07	2.068E-07
NNW	9.294E-05	2.837E-05	1.456E-05	7.250E-06	3.061E-06	1.714E-06	1.114E-06	7.931E-07	6.005E-07	4.750E-07	3.883E-07
N	1.315E-04	3.984E-05	2.065E-05	1.036E-05	4.370E-06	2.446E-06	1.589E-06	1.131E-06	8.558E-07	6.767E-07	5.530E-07
NNE	5.039E-05	1.559E-05	8.102E-06	4.053E-06	1.701E-06	9.486E-07	6.147E-07	4.367E-07	3.300E-07	2.606E-07	2.127E-07
NE	4.495E-05	1.379E-05	7.072E-06	3.520E-06	1.478E-06	8.249E-07	5.347E-07	3.800E-07	2.872E-07	2.268E-07	1.852E-07
ENE	3.115E-05	9.741E-06	5.114E-06	2.567E-06	1.066E-06	5.900E-07	3.802E-07	2.690E-07	2.026E-07	1.595E-07	1.299E-07
E	4.636E-05	1.391E-05	7.093E-06	3.533E-06	1.500E-06	8.431E-07	5.493E-07	3.919E-07	2.972E-07	2.354E-07	1.926E-07
ESE	4.188E-05	1.302E-05	6.784E-06	3.396E-06	1.417E-06	7.871E-07	5.085E-07	3.604E-07	2.719E-07	2.144E-07	1.747E-07
SE	7.872E-05	2.423E-05	1.257E-05	6.291E-06	2.642E-06	1.474E-06	9.550E-07	6.785E-07	5.128E-07	4.050E-07	3.306E-07
SSE	7.167E-05	2.214E-05	1.126E-05	5.563E-06	2.338E-06	1.306E-06	8.471E-07	6.023E-07	4.555E-07	3.600E-07	2.941E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.475E-07	1.852E-07	1.232E-07	7.319E-08	5.078E-08	3.831E-08	3.047E-08	2.513E-08	2.128E-08	1.838E-08	1.613E-08
SSW	1.522E-07	8.013E-08	5.282E-08	3.101E-08	2.133E-08	1.599E-08	1.265E-08	1.039E-08	8.762E-09	7.544E-09	6.601E-09
SW	5.320E-08	2.757E-08	1.798E-08	1.040E-08	7.078E-09	5.264E-09	4.138E-09	3.379E-09	2.837E-09	2.433E-09	2.122E-09
WSW	8.505E-08	4.465E-08	2.937E-08	1.720E-08	1.180E-08	8.834E-09	6.979E-09	5.724E-09	4.823E-09	4.149E-09	3.627E-09
W	7.121E-08	3.669E-08	2.383E-08	1.372E-08	9.309E-09	6.908E-09	5.422E-09	4.423E-09	3.710E-09	3.179E-09	2.770E-09
WNW	7.572E-08	3.858E-08	2.485E-08	1.413E-08	9.503E-09	7.002E-09	5.463E-09	4.433E-09	3.702E-09	3.160E-09	2.744E-09
NW	1.722E-07	9.054E-08	5.962E-08	3.496E-08	2.402E-08	1.800E-08	1.423E-08	1.168E-08	9.849E-09	8.477E-09	7.416E-09
NNW	3.255E-07	1.755E-07	1.176E-07	7.063E-08	4.934E-08	3.742E-08	2.989E-08	2.473E-08	2.100E-08	1.819E-08	1.600E-08
N	4.635E-07	2.497E-07	1.672E-07	1.002E-07	6.997E-08	5.303E-08	4.233E-08	3.501E-08	2.971E-08	2.572E-08	2.262E-08
NNE	1.781E-07	9.561E-08	6.386E-08	3.818E-08	2.659E-08	2.012E-08	1.604E-08	1.325E-08	1.124E-08	9.719E-09	8.539E-09
NE	1.551E-07	8.328E-08	5.566E-08	3.330E-08	2.321E-08	1.758E-08	1.402E-08	1.159E-08	9.835E-09	8.512E-09	7.483E-09
ENE	1.085E-07	5.778E-08	3.838E-08	2.278E-08	1.579E-08	1.191E-08	9.464E-09	7.801E-09	6.602E-09	5.701E-09	5.001E-09
E	1.616E-07	8.745E-08	5.873E-08	3.537E-08	2.476E-08	1.881E-08	1.504E-08	1.246E-08	1.059E-08	9.179E-09	8.079E-09
ESE	1.461E-07	7.809E-08	5.200E-08	3.097E-08	2.152E-08	1.625E-08	1.294E-08	1.068E-08	9.045E-09	7.818E-09	6.864E-09
SE	2.768E-07	1.486E-07	9.926E-08	5.934E-08	4.133E-08	3.128E-08	2.494E-08	2.061E-08	1.748E-08	1.512E-08	1.328E-08
SSE	2.464E-07	1.326E-07	8.871E-08	5.319E-08	3.713E-08	2.815E-08	2.248E-08	1.860E-08	1.579E-08	1.367E-08	1.203E-08

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
	SEGMENT BOUNDARIES IN MILES FROM THE SITE									
S	1.607E-05	3.788E-06	1.251E-06	6.561E-07	4.185E-07	1.937E-07	7.433E-08	3.850E-08	2.519E-08	1.840E-08
SSW	7.317E-06	1.736E-06	5.614E-07	2.909E-07	1.840E-07	8.401E-08	3.156E-08	1.608E-08	1.042E-08	7.556E-09
SW	2.750E-06	6.411E-07	2.021E-07	1.032E-07	6.461E-08	2.900E-08	1.061E-08	5.297E-09	3.390E-09	2.438E-09
WSW	4.091E-06	9.757E-07	3.149E-07	1.629E-07	1.029E-07	4.684E-08	1.751E-08	8.884E-09	5.739E-09	4.155E-09
W	3.810E-06	8.755E-07	2.734E-07	1.389E-07	8.663E-08	3.865E-08	1.400E-08	6.954E-09	4.437E-09	3.185E-09
WNW	4.183E-06	9.636E-07	2.965E-07	1.492E-07	9.241E-08	4.073E-08	1.446E-08	7.054E-09	4.449E-09	3.166E-09
NW	8.388E-06	1.974E-06	6.369E-07	3.296E-07	2.083E-07	9.495E-08	3.558E-08	1.810E-08	1.171E-08	8.491E-09
NNW	1.438E-05	3.393E-06	1.146E-06	6.078E-07	3.907E-07	1.831E-07	7.161E-08	3.759E-08	2.479E-08	1.821E-08
N	2.034E-05	4.845E-06	1.634E-06	8.661E-07	5.565E-07	2.605E-07	1.017E-07	5.327E-08	3.508E-08	2.575E-08
NNE	7.967E-06	1.889E-06	6.325E-07	3.341E-07	2.141E-07	9.984E-08	3.873E-08	2.021E-08	1.328E-08	9.731E-09
NE	6.986E-06	1.642E-06	5.502E-07	2.907E-07	1.864E-07	8.696E-08	3.379E-08	1.766E-08	1.162E-08	8.523E-09
ENE	5.010E-06	1.188E-06	3.917E-07	2.051E-07	1.307E-07	6.043E-08	2.314E-08	1.197E-08	7.819E-09	5.709E-09
E	7.026E-06	1.660E-06	5.647E-07	3.007E-07	1.938E-07	9.117E-08	3.584E-08	1.889E-08	1.248E-08	9.190E-09
ESE	6.663E-06	1.577E-06	5.236E-07	2.753E-07	1.759E-07	8.161E-08	3.144E-08	1.633E-08	1.070E-08	7.828E-09
SE	1.237E-05	2.933E-06	9.827E-07	5.191E-07	3.327E-07	1.552E-07	6.021E-08	3.142E-08	2.065E-08	1.514E-08
SSE	1.115E-05	2.596E-06	8.715E-07	4.611E-07	2.959E-07	1.384E-07	5.394E-08	2.828E-08	1.864E-08	1.369E-08

VENTS GROUND LEVEL RELEASES - OCT-DEC 2025
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	9.955E-05	3.126E-05	1.626E-05	8.100E-06	3.349E-06	1.847E-06	1.185E-06	8.343E-07	6.253E-07	4.901E-07	3.971E-07
SSW	4.360E-05	1.402E-05	7.469E-06	3.754E-06	1.530E-06	8.356E-07	5.324E-07	3.728E-07	2.782E-07	2.172E-07	1.754E-07
SW	1.547E-05	5.275E-06	2.815E-06	1.403E-06	5.619E-07	3.032E-07	1.914E-07	1.331E-07	9.872E-08	7.669E-08	6.166E-08
WSW	2.430E-05	7.798E-06	4.176E-06	2.108E-06	8.578E-07	4.676E-07	2.974E-07	2.079E-07	1.549E-07	1.208E-07	9.742E-08
W	2.166E-05	7.374E-06	3.887E-06	1.925E-06	7.666E-07	4.120E-07	2.593E-07	1.798E-07	1.331E-07	1.032E-07	8.287E-08
WNW	2.307E-05	8.036E-06	4.296E-06	2.138E-06	8.443E-07	4.511E-07	2.828E-07	1.955E-07	1.443E-07	1.117E-07	8.950E-08
NW	4.929E-05	1.615E-05	8.557E-06	4.277E-06	1.741E-06	9.498E-07	6.048E-07	4.234E-07	3.158E-07	2.465E-07	1.991E-07
NNW	9.269E-05	2.823E-05	1.445E-05	7.177E-06	3.014E-06	1.679E-06	1.085E-06	7.687E-07	5.789E-07	4.555E-07	3.703E-07
N	1.312E-04	3.964E-05	2.050E-05	1.026E-05	4.308E-06	2.398E-06	1.550E-06	1.098E-06	8.267E-07	6.504E-07	5.288E-07
NNE	5.026E-05	1.551E-05	8.040E-06	4.012E-06	1.675E-06	9.290E-07	5.988E-07	4.231E-07	3.181E-07	2.498E-07	2.029E-07
NE	4.483E-05	1.371E-05	7.016E-06	3.483E-06	1.455E-06	8.070E-07	5.202E-07	3.675E-07	2.762E-07	2.169E-07	1.761E-07
ENE	3.107E-05	9.693E-06	5.077E-06	2.542E-06	1.050E-06	5.784E-07	3.709E-07	2.611E-07	1.956E-07	1.532E-07	1.241E-07
E	4.623E-05	1.383E-05	7.032E-06	3.493E-06	1.475E-06	8.239E-07	5.337E-07	3.785E-07	2.854E-07	2.247E-07	1.828E-07
ESE	4.178E-05	1.296E-05	6.742E-06	3.368E-06	1.399E-06	7.738E-07	4.978E-07	3.512E-07	2.637E-07	2.070E-07	1.680E-07
SE	7.851E-05	2.410E-05	1.248E-05	6.229E-06	2.602E-06	1.444E-06	9.309E-07	6.579E-07	4.946E-07	3.886E-07	3.155E-07
SSE	7.148E-05	2.203E-05	1.117E-05	5.508E-06	2.303E-06	1.279E-06	8.251E-07	5.835E-07	4.389E-07	3.449E-07	2.802E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.301E-07	1.715E-07	1.111E-07	6.278E-08	4.147E-08	2.983E-08	2.266E-08	1.788E-08	1.450E-08	1.202E-08	1.013E-08
SSW	1.454E-07	7.482E-08	4.820E-08	2.706E-08	1.782E-08	1.281E-08	9.726E-09	7.675E-09	6.231E-09	5.170E-09	4.364E-09
SW	5.092E-08	2.580E-08	1.645E-08	9.105E-09	5.936E-09	4.233E-09	3.194E-09	2.506E-09	2.024E-09	1.672E-09	1.405E-09
WSW	8.067E-08	4.124E-08	2.642E-08	1.469E-08	9.590E-09	6.835E-09	5.151E-09	4.035E-09	3.253E-09	2.680E-09	2.247E-09
W	6.835E-08	3.447E-08	2.191E-08	1.209E-08	7.868E-09	5.606E-09	4.229E-09	3.319E-09	2.682E-09	2.216E-09	1.863E-09
WNW	7.371E-08	3.702E-08	2.350E-08	1.298E-08	8.487E-09	6.081E-09	4.617E-09	3.649E-09	2.969E-09	2.471E-09	2.094E-09
NW	1.650E-07	8.484E-08	5.464E-08	3.068E-08	2.021E-08	1.453E-08	1.104E-08	8.718E-09	7.082E-09	5.879E-09	4.966E-09
NNW	3.088E-07	1.621E-07	1.058E-07	6.037E-08	4.013E-08	2.902E-08	2.213E-08	1.751E-08	1.425E-08	1.184E-08	1.000E-08
N	4.410E-07	2.317E-07	1.514E-07	8.651E-08	5.764E-08	4.178E-08	3.194E-08	2.535E-08	2.067E-08	1.722E-08	1.459E-08
NNE	1.689E-07	8.830E-08	5.745E-08	3.262E-08	2.162E-08	1.559E-08	1.187E-08	9.374E-09	7.613E-09	6.316E-09	5.330E-09
NE	1.466E-07	7.656E-08	4.975E-08	2.818E-08	1.862E-08	1.340E-08	1.017E-08	8.012E-09	6.490E-09	5.370E-09	4.520E-09
ENE	1.032E-07	5.355E-08	3.469E-08	1.960E-08	1.295E-08	9.325E-09	7.089E-09	5.597E-09	4.544E-09	3.769E-09	3.181E-09
E	1.525E-07	8.017E-08	5.233E-08	2.982E-08	1.978E-08	1.427E-08	1.086E-08	8.572E-09	6.955E-09	5.764E-09	4.858E-09
ESE	1.399E-07	7.310E-08	4.762E-08	2.716E-08	1.811E-08	1.314E-08	1.007E-08	8.005E-09	6.544E-09	5.466E-09	4.642E-09
SE	2.628E-07	1.374E-07	8.942E-08	5.081E-08	3.369E-08	2.431E-08	1.851E-08	1.463E-08	1.189E-08	9.869E-09	8.333E-09
SSE	2.335E-07	1.222E-07	7.959E-08	4.524E-08	2.999E-08	2.163E-08	1.646E-08	1.299E-08	1.055E-08	8.744E-09	7.373E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.597E-05	3.737E-06	1.221E-06	6.335E-07	3.998E-07	1.799E-07	6.405E-08	3.007E-08	1.796E-08	1.205E-08
SSW	7.274E-06	1.716E-06	5.494E-07	2.820E-07	1.767E-07	7.869E-08	2.765E-08	1.291E-08	7.711E-09	5.186E-09
SW	2.734E-06	6.338E-07	1.979E-07	1.002E-07	6.214E-08	2.723E-08	9.329E-09	4.271E-09	2.519E-09	1.678E-09
WSW	4.062E-06	9.621E-07	3.070E-07	1.571E-07	9.814E-08	4.342E-08	1.503E-08	6.896E-09	4.056E-09	2.689E-09
W	3.790E-06	8.664E-07	2.682E-07	1.351E-07	8.352E-08	3.642E-08	1.239E-08	5.658E-09	3.336E-09	2.223E-09
WNW	4.168E-06	9.571E-07	2.928E-07	1.465E-07	9.022E-08	3.916E-08	1.332E-08	6.137E-09	3.667E-09	2.479E-09
NW	8.342E-06	1.953E-06	6.242E-07	3.201E-07	2.005E-07	8.924E-08	3.135E-08	1.465E-08	8.758E-09	5.897E-09
NNW	1.428E-05	3.346E-06	1.117E-06	5.861E-07	3.728E-07	1.697E-07	6.148E-08	2.923E-08	1.759E-08	1.187E-08
N	2.020E-05	4.782E-06	1.595E-06	8.370E-07	5.323E-07	2.425E-07	8.809E-08	4.208E-08	2.545E-08	1.727E-08
NNE	7.911E-06	1.863E-06	6.166E-07	3.221E-07	2.042E-07	9.251E-08	3.325E-08	1.571E-08	9.415E-09	6.335E-09
NE	6.934E-06	1.617E-06	5.356E-07	2.797E-07	1.773E-07	8.022E-08	2.873E-08	1.350E-08	8.048E-09	5.387E-09
ENE	4.976E-06	1.172E-06	3.823E-07	1.981E-07	1.250E-07	5.619E-08	2.000E-08	9.398E-09	5.622E-09	3.781E-09
E	6.970E-06	1.634E-06	5.490E-07	2.889E-07	1.840E-07	8.387E-08	3.036E-08	1.438E-08	8.609E-09	5.781E-09
ESE	6.625E-06	1.559E-06	5.128E-07	2.671E-07	1.692E-07	7.661E-08	2.768E-08	1.323E-08	8.037E-09	5.480E-09
SE	1.228E-05	2.893E-06	9.585E-07	5.009E-07	3.176E-07	1.439E-07	5.178E-08	2.449E-08	1.469E-08	9.899E-09
SSE	1.107E-05	2.560E-06	8.494E-07	4.444E-07	2.821E-07	1.280E-07	4.610E-08	2.179E-08	1.305E-08	8.770E-09

VENTS GROUND LEVEL RELEASES - OCT-DEC 2025
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	9.439E-05	2.865E-05	1.456E-05	7.140E-06	2.875E-06	1.551E-06	9.771E-07	6.772E-07	5.005E-07	3.873E-07	3.102E-07
SSW	4.133E-05	1.284E-05	6.686E-06	3.306E-06	1.312E-06	7.007E-07	4.382E-07	3.019E-07	2.220E-07	1.711E-07	1.365E-07
SW	1.467E-05	4.832E-06	2.520E-06	1.235E-06	4.815E-07	2.541E-07	1.575E-07	1.077E-07	7.872E-08	6.035E-08	4.795E-08
WSW	2.305E-05	7.148E-06	3.742E-06	1.858E-06	7.366E-07	3.930E-07	2.455E-07	1.689E-07	1.241E-07	9.556E-08	7.620E-08
W	2.053E-05	6.753E-06	3.478E-06	1.694E-06	6.565E-07	3.450E-07	2.131E-07	1.453E-07	1.060E-07	8.110E-08	6.432E-08
WNW	2.186E-05	7.352E-06	3.839E-06	1.878E-06	7.209E-07	3.763E-07	2.312E-07	1.570E-07	1.141E-07	8.703E-08	6.884E-08
NW	4.672E-05	1.479E-05	7.657E-06	3.765E-06	1.491E-06	7.957E-07	4.972E-07	3.424E-07	2.517E-07	1.939E-07	1.547E-07
NNW	8.789E-05	2.587E-05	1.294E-05	6.328E-06	2.588E-06	1.411E-06	8.956E-07	6.244E-07	4.637E-07	3.603E-07	2.896E-07
N	1.244E-04	3.633E-05	1.836E-05	9.041E-06	3.696E-06	2.014E-06	1.278E-06	8.906E-07	6.612E-07	5.136E-07	4.128E-07
NNE	4.766E-05	1.422E-05	7.204E-06	3.537E-06	1.438E-06	7.808E-07	4.942E-07	3.438E-07	2.548E-07	1.977E-07	1.587E-07
NE	4.251E-05	1.257E-05	6.288E-06	3.072E-06	1.250E-06	6.788E-07	4.297E-07	2.990E-07	2.216E-07	1.719E-07	1.380E-07
ENE	2.946E-05	8.883E-06	4.548E-06	2.241E-06	9.012E-07	4.858E-07	3.058E-07	2.118E-07	1.565E-07	1.210E-07	9.692E-08
E	4.384E-05	1.268E-05	6.305E-06	3.083E-06	1.268E-06	6.936E-07	4.413E-07	3.082E-07	2.292E-07	1.783E-07	1.435E-07
ESE	3.961E-05	1.187E-05	6.035E-06	2.966E-06	1.199E-06	6.486E-07	4.094E-07	2.842E-07	2.103E-07	1.629E-07	1.306E-07
SE	7.444E-05	2.209E-05	1.118E-05	5.491E-06	2.234E-06	1.213E-06	7.680E-07	5.342E-07	3.960E-07	3.072E-07	2.466E-07
SSE	6.778E-05	2.019E-05	1.001E-05	4.856E-06	1.977E-06	1.075E-06	6.810E-07	4.741E-07	3.517E-07	2.730E-07	2.193E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.552E-07	1.277E-07	8.030E-08	4.350E-08	2.791E-08	1.965E-08	1.467E-08	1.141E-08	9.139E-09	7.491E-09	6.251E-09
SSW	1.120E-07	5.538E-08	3.455E-08	1.852E-08	1.180E-08	8.271E-09	6.153E-09	4.771E-09	3.814E-09	3.121E-09	2.601E-09
SW	3.916E-08	1.907E-08	1.177E-08	6.218E-09	3.922E-09	2.727E-09	2.016E-09	1.555E-09	1.238E-09	1.009E-09	8.378E-10
WSW	6.244E-08	3.077E-08	1.914E-08	1.021E-08	6.480E-09	4.524E-09	3.355E-09	2.593E-09	2.067E-09	1.687E-09	1.402E-09
W	5.246E-08	2.540E-08	1.562E-08	8.216E-09	5.169E-09	3.588E-09	2.649E-09	2.042E-09	1.624E-09	1.323E-09	1.098E-09
WNW	5.601E-08	2.687E-08	1.643E-08	8.569E-09	5.364E-09	3.711E-09	2.735E-09	2.106E-09	1.674E-09	1.363E-09	1.132E-09
NW	1.268E-07	6.264E-08	3.905E-08	2.091E-08	1.332E-08	9.329E-09	6.938E-09	5.380E-09	4.300E-09	3.518E-09	2.932E-09
NNW	2.390E-07	1.209E-07	7.663E-08	4.193E-08	2.708E-08	1.916E-08	1.437E-08	1.121E-08	9.006E-09	7.399E-09	6.188E-09
N	3.406E-07	1.722E-07	1.091E-07	5.967E-08	3.855E-08	2.728E-08	2.046E-08	1.597E-08	1.283E-08	1.055E-08	8.828E-09
NNE	1.308E-07	6.587E-08	4.160E-08	2.266E-08	1.459E-08	1.030E-08	7.709E-09	6.005E-09	4.818E-09	3.953E-09	3.303E-09
NE	1.138E-07	5.730E-08	3.619E-08	1.971E-08	1.269E-08	8.958E-09	6.700E-09	5.217E-09	4.183E-09	3.431E-09	2.865E-09
ENE	7.972E-08	3.985E-08	2.504E-08	1.355E-08	8.690E-09	6.116E-09	4.566E-09	3.550E-09	2.844E-09	2.331E-09	1.945E-09
E	1.185E-07	6.012E-08	3.815E-08	2.091E-08	1.352E-08	9.573E-09	7.178E-09	5.600E-09	4.499E-09	3.695E-09	3.090E-09
ESE	1.076E-07	5.400E-08	3.405E-08	1.852E-08	1.193E-08	8.425E-09	6.310E-09	4.921E-09	3.954E-09	3.249E-09	2.719E-09
SE	2.033E-07	1.024E-07	6.468E-08	3.524E-08	2.270E-08	1.603E-08	1.199E-08	9.344E-09	7.498E-09	6.154E-09	5.141E-09
SSE	1.808E-07	9.128E-08	5.774E-08	3.153E-08	2.034E-08	1.438E-08	1.077E-08	8.395E-09	6.739E-09	5.533E-09	4.624E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
	SEGMENT BOUNDARIES IN MILES FROM THE SITE									
S	1.439E-05	3.234E-06	1.010E-06	5.078E-07	3.127E-07	1.350E-07	4.475E-08	1.986E-08	1.148E-08	7.520E-09
SSW	6.552E-06	1.483E-06	4.537E-07	2.254E-07	1.377E-07	5.870E-08	1.910E-08	8.366E-09	4.801E-09	3.133E-09
SW	2.463E-06	5.480E-07	1.633E-07	8.000E-08	4.837E-08	2.029E-08	6.432E-09	2.761E-09	1.566E-09	1.013E-09
WSW	3.662E-06	8.332E-07	2.542E-07	1.260E-07	7.684E-08	3.264E-08	1.054E-08	4.578E-09	2.610E-09	1.694E-09
W	3.413E-06	7.487E-07	2.211E-07	1.077E-07	6.490E-08	2.707E-08	8.508E-09	3.634E-09	2.056E-09	1.329E-09
WNW	3.748E-06	8.249E-07	2.402E-07	1.161E-07	6.948E-08	2.871E-08	8.891E-09	3.762E-09	2.121E-09	1.370E-09
NW	7.512E-06	1.687E-06	5.149E-07	2.556E-07	1.560E-07	6.641E-08	2.157E-08	9.437E-09	5.414E-09	3.532E-09
NNW	1.288E-05	2.896E-06	9.245E-07	4.702E-07	2.918E-07	1.275E-07	4.304E-08	1.936E-08	1.127E-08	7.427E-09
N	1.821E-05	4.136E-06	1.319E-06	6.705E-07	4.159E-07	1.816E-07	6.127E-08	2.756E-08	1.606E-08	1.059E-08
NNE	7.134E-06	1.612E-06	5.105E-07	2.585E-07	1.599E-07	6.951E-08	2.329E-08	1.041E-08	6.039E-09	3.968E-09
NE	6.255E-06	1.401E-06	4.438E-07	2.248E-07	1.391E-07	6.047E-08	2.025E-08	9.051E-09	5.247E-09	3.444E-09
ENE	4.486E-06	1.014E-06	3.162E-07	1.588E-07	9.769E-08	4.213E-08	1.394E-08	6.183E-09	3.571E-09	2.340E-09
E	6.290E-06	1.416E-06	4.553E-07	2.324E-07	1.445E-07	6.333E-08	2.146E-08	9.668E-09	5.631E-09	3.709E-09
ESE	5.968E-06	1.347E-06	4.231E-07	2.134E-07	1.317E-07	5.704E-08	1.904E-08	8.513E-09	4.950E-09	3.262E-09
SE	1.108E-05	2.504E-06	7.932E-07	4.017E-07	2.485E-07	1.081E-07	3.621E-08	1.619E-08	9.398E-09	6.177E-09
SSE	9.982E-06	2.216E-06	7.033E-07	3.567E-07	2.210E-07	9.628E-08	3.238E-08	1.452E-08	8.442E-09	5.554E-09

VENTS GROUND LEVEL RELEASES - OCT-DEC 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	2.556E-07	8.642E-08	4.437E-08	2.110E-08	7.578E-09	3.758E-09	2.213E-09	1.449E-09	1.020E-09	7.556E-10	5.822E-10
SSW	1.385E-07	4.682E-08	2.404E-08	1.143E-08	4.105E-09	2.036E-09	1.199E-09	7.850E-10	5.523E-10	4.093E-10	3.154E-10
SW	4.190E-08	1.417E-08	7.275E-09	3.459E-09	1.242E-09	6.161E-10	3.628E-10	2.376E-10	1.672E-10	1.239E-10	9.546E-11
WSW	4.398E-08	1.487E-08	7.636E-09	3.630E-09	1.304E-09	6.467E-10	3.808E-10	2.493E-10	1.754E-10	1.300E-10	1.002E-10
W	7.015E-08	2.372E-08	1.218E-08	5.791E-09	2.080E-09	1.032E-09	6.074E-10	3.977E-10	2.798E-10	2.074E-10	1.598E-10
WNW	1.300E-07	4.396E-08	2.257E-08	1.073E-08	3.854E-09	1.911E-09	1.126E-09	7.370E-10	5.186E-10	3.843E-10	2.962E-10
NW	1.719E-07	5.812E-08	2.984E-08	1.419E-08	5.096E-09	2.527E-09	1.488E-09	9.744E-10	6.857E-10	5.081E-10	3.916E-10
NNW	1.980E-07	6.696E-08	3.438E-08	1.635E-08	5.871E-09	2.912E-09	1.715E-09	1.123E-09	7.900E-10	5.854E-10	4.511E-10
N	3.521E-07	1.191E-07	6.114E-08	2.907E-08	1.044E-08	5.178E-09	3.049E-09	1.996E-09	1.405E-09	1.041E-09	8.022E-10
NNE	1.048E-07	3.545E-08	1.820E-08	8.654E-09	3.108E-09	1.542E-09	9.077E-10	5.943E-10	4.182E-10	3.099E-10	2.388E-10
NE	8.949E-08	3.026E-08	1.554E-08	7.387E-09	2.653E-09	1.316E-09	7.748E-10	5.073E-10	3.570E-10	2.645E-10	2.039E-10
ENE	7.325E-08	2.477E-08	1.272E-08	6.046E-09	2.172E-09	1.077E-09	6.342E-10	4.153E-10	2.922E-10	2.165E-10	1.669E-10
E	6.497E-08	2.197E-08	1.128E-08	5.363E-09	1.926E-09	9.553E-10	5.625E-10	3.683E-10	2.592E-10	1.921E-10	1.480E-10
ESE	1.294E-07	4.377E-08	2.247E-08	1.068E-08	3.838E-09	1.903E-09	1.121E-09	7.338E-10	5.163E-10	3.827E-10	2.949E-10
SE	2.360E-07	7.980E-08	4.097E-08	1.948E-08	6.997E-09	3.470E-09	2.043E-09	1.338E-09	9.413E-10	6.976E-10	5.376E-10
SSE	2.160E-07	7.303E-08	3.750E-08	1.783E-08	6.403E-09	3.176E-09	1.870E-09	1.224E-09	8.615E-10	6.385E-10	4.920E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	4.626E-10	2.055E-10	1.245E-10	6.292E-11	3.808E-11	2.553E-11	1.829E-11	1.374E-11	1.068E-11	8.532E-12	6.964E-12
SSW	2.506E-10	1.113E-10	6.744E-11	3.409E-11	2.063E-11	1.383E-11	9.911E-12	7.442E-12	5.787E-12	4.622E-12	3.773E-12
SW	7.584E-11	3.369E-11	2.041E-11	1.032E-11	6.243E-12	4.186E-12	2.999E-12	2.252E-12	1.751E-12	1.399E-12	1.142E-12
WSW	7.960E-11	3.536E-11	2.142E-11	1.083E-11	6.553E-12	4.394E-12	3.148E-12	2.364E-12	1.838E-12	1.468E-12	1.198E-12
W	1.270E-10	5.640E-11	3.417E-11	1.727E-11	1.045E-11	7.008E-12	5.022E-12	3.771E-12	2.932E-12	2.342E-12	1.912E-12
WNW	2.353E-10	1.045E-10	6.331E-11	3.200E-11	1.937E-11	1.299E-11	9.305E-12	6.987E-12	5.433E-12	4.340E-12	3.542E-12
NW	3.111E-10	1.382E-10	8.371E-11	4.231E-11	2.561E-11	1.717E-11	1.230E-11	9.239E-12	7.183E-12	5.738E-12	4.684E-12
NNW	3.584E-10	1.592E-10	9.645E-11	4.875E-11	2.951E-11	1.978E-11	1.418E-11	1.064E-11	8.276E-12	6.611E-12	5.396E-12
N	6.373E-10	2.831E-10	1.715E-10	8.669E-11	5.247E-11	3.518E-11	2.521E-11	1.893E-11	1.472E-11	1.176E-11	9.596E-12
NNE	1.897E-10	8.429E-11	5.106E-11	2.581E-11	1.562E-11	1.047E-11	7.504E-12	5.635E-12	4.381E-12	3.500E-12	2.857E-12
NE	1.620E-10	7.195E-11	4.358E-11	2.203E-11	1.333E-11	8.940E-12	6.406E-12	4.810E-12	3.740E-12	2.987E-12	2.438E-12
ENE	1.326E-10	5.889E-11	3.568E-11	1.803E-11	1.091E-11	7.318E-12	5.243E-12	3.937E-12	3.061E-12	2.445E-12	1.996E-12
E	1.176E-10	5.224E-11	3.164E-11	1.599E-11	9.680E-12	6.490E-12	4.651E-12	3.492E-12	2.715E-12	2.169E-12	1.770E-12
ESE	2.343E-10	1.041E-10	6.304E-11	3.186E-11	1.929E-11	1.293E-11	9.265E-12	6.957E-12	5.409E-12	4.321E-12	3.527E-12
SE	4.271E-10	1.897E-10	1.149E-10	5.809E-11	3.516E-11	2.357E-11	1.689E-11	1.268E-11	9.862E-12	7.878E-12	6.430E-12
SSE	3.909E-10	1.736E-10	1.052E-10	5.316E-11	3.218E-11	2.157E-11	1.546E-11	1.161E-11	9.026E-12	7.210E-12	5.885E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	4.337E-08	8.884E-09	2.319E-09	1.042E-09	5.893E-10	2.266E-10	6.556E-11	2.598E-11	1.388E-11	8.588E-12
SSW	2.350E-08	4.813E-09	1.256E-09	5.643E-10	3.192E-10	1.228E-10	3.552E-11	1.408E-11	7.517E-12	4.653E-12
SW	7.111E-09	1.457E-09	3.803E-10	1.708E-10	9.661E-11	3.715E-11	1.075E-11	4.260E-12	2.275E-12	1.408E-12
WSW	7.464E-09	1.529E-09	3.991E-10	1.793E-10	1.014E-10	3.900E-11	1.128E-11	4.471E-12	2.388E-12	1.478E-12
W	1.191E-08	2.439E-09	6.366E-10	2.859E-10	1.617E-10	6.220E-11	1.799E-11	7.132E-12	3.808E-12	2.357E-12
WNW	2.206E-08	4.519E-09	1.180E-09	5.298E-10	2.997E-10	1.153E-10	3.335E-11	1.322E-11	7.057E-12	4.368E-12
NW	2.917E-08	5.975E-09	1.560E-09	7.005E-10	3.963E-10	1.524E-10	4.409E-11	1.747E-11	9.332E-12	5.776E-12
NNW	3.361E-08	6.884E-09	1.797E-09	8.071E-10	4.566E-10	1.756E-10	5.080E-11	2.013E-11	1.075E-11	6.654E-12
N	5.976E-08	1.224E-08	3.196E-09	1.435E-09	8.119E-10	3.122E-10	9.033E-11	3.580E-11	1.912E-11	1.183E-11
NNE	1.779E-08	3.644E-09	9.514E-10	4.273E-10	2.417E-10	9.295E-11	2.689E-11	1.066E-11	5.691E-12	3.523E-12
NE	1.519E-08	3.111E-09	8.121E-10	3.647E-10	2.063E-10	7.934E-11	2.295E-11	9.098E-12	4.858E-12	3.007E-12
ENE	1.243E-08	2.546E-09	6.647E-10	2.985E-10	1.689E-10	6.495E-11	1.879E-11	7.447E-12	3.977E-12	2.461E-12
E	1.103E-08	2.258E-09	5.896E-10	2.648E-10	1.498E-10	5.761E-11	1.666E-11	6.605E-12	3.527E-12	2.183E-12
ESE	2.197E-08	4.499E-09	1.175E-09	5.275E-10	2.984E-10	1.148E-10	3.320E-11	1.316E-11	7.027E-12	4.349E-12
SE	4.005E-08	8.203E-09	2.141E-09	9.618E-10	5.441E-10	2.092E-10	6.053E-11	2.399E-11	1.281E-11	7.930E-12
SSE	3.665E-08	7.507E-09	1.960E-09	8.802E-10	4.979E-10	1.915E-10	5.540E-11	2.196E-11	1.172E-11	7.257E-12

VENTS GROUND LEVEL RELEASES - OCT-DEC 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.26 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.0 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	1.4E-05	1.4E-05	1.2E-05	3.8E-08
A	Site Boundary	SSW	.82	6.0E-06	6.0E-06	5.3E-06	1.9E-08
A	Site Boundary	SW	.97	1.5E-06	1.5E-06	1.3E-06	3.7E-09
A	Site Boundary	WSW	.93	2.6E-06	2.5E-06	2.2E-06	4.4E-09
A	Site Boundary	W	.91	2.4E-06	2.4E-06	2.1E-06	7.3E-09
A	Site Boundary	WNW	.94	2.5E-06	2.5E-06	2.2E-06	1.3E-08
A	Site Boundary	NW	.81	7.1E-06	7.1E-06	6.3E-06	2.4E-08
A	Site Boundary	NNW	.69	1.7E-05	1.7E-05	1.5E-05	4.0E-08
A	Site Boundary	N	.67	2.4E-05	2.4E-05	2.2E-05	7.3E-08
A	Site Boundary	NNE	.60	1.2E-05	1.2E-05	1.0E-05	2.6E-08
A	Site Boundary	NE	.62	9.5E-06	9.4E-06	8.5E-06	2.1E-08
A	Site Boundary	ENE	.59	7.5E-06	7.5E-06	6.8E-06	1.9E-08
A	Site Boundary	E	.53	1.3E-05	1.3E-05	1.2E-05	2.0E-08
A	Site Boundary	ESE	.54	1.2E-05	1.1E-05	1.0E-05	3.9E-08
A	Site Boundary	SE	.65	1.6E-05	1.6E-05	1.4E-05	5.2E-08
A	Site Boundary	SSE	.81	9.3E-06	9.2E-06	8.2E-06	3.1E-08
A	Nearest Res	SW	1.30	7.8E-07	7.7E-07	6.7E-07	1.8E-09
A	Nearest Res	WSW	1.90	5.3E-07	5.2E-07	4.4E-07	7.3E-10
A	Nearest Res	WNW	2.50	2.9E-07	2.8E-07	2.3E-07	1.1E-09
A	Nearest Res	NW	1.20	2.9E-06	2.8E-06	2.5E-06	8.9E-09
A	Nearest Res	NNW	2.00	1.7E-06	1.7E-06	1.4E-06	2.9E-09
A	Nearest Res	NE	1.70	1.1E-06	1.1E-06	9.6E-07	2.0E-09
A	Nearest Res	E	1.90	9.3E-07	9.1E-07	7.7E-07	1.1E-09
A	Nearest Cow	NNW	3.50	6.0E-07	5.8E-07	4.6E-07	7.9E-10
A	Nearest Garde	SW	2.20	2.5E-07	2.5E-07	2.1E-07	4.9E-10
A	Nearest Garde	WSW	2.50	3.1E-07	3.0E-07	2.5E-07	3.8E-10
A	Nearest Garde	WNW	2.70	2.5E-07	2.4E-07	2.0E-07	9.4E-10
A	Nearest Garde	NNW	2.70	9.6E-07	9.4E-07	7.7E-07	1.4E-09
A	Nearest Garde	ENE	1.70	8.2E-07	8.1E-07	6.9E-07	1.6E-09
A	Nearest Garde	E	1.90	9.3E-07	9.1E-07	7.7E-07	1.1E-09
A	Nearest Garde	ESE	2.20	6.5E-07	6.4E-07	5.3E-07	1.5E-09
A	Nearest Garde	SE	1.90	1.6E-06	1.6E-06	1.4E-06	3.9E-09

Atmospheric Diffusion Estimates

Ground Level Releases

July-December 2025

B270

VENTS GROUND LEVEL RELEASES - JUL-DEC 2025
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	8.804E-05	2.791E-05	1.475E-05	7.407E-06	3.056E-06	1.685E-06	1.082E-06	7.639E-07	5.741E-07	4.513E-07	3.669E-07
SSW	3.973E-05	1.298E-05	6.957E-06	3.500E-06	1.420E-06	7.741E-07	4.933E-07	3.458E-07	2.585E-07	2.023E-07	1.638E-07
SW	1.664E-05	5.689E-06	3.069E-06	1.535E-06	6.097E-07	3.277E-07	2.066E-07	1.436E-07	1.065E-07	8.286E-08	6.673E-08
WSW	1.982E-05	6.581E-06	3.540E-06	1.779E-06	7.134E-07	3.859E-07	2.444E-07	1.705E-07	1.269E-07	9.895E-08	7.987E-08
W	2.057E-05	6.968E-06	3.670E-06	1.815E-06	7.171E-07	3.840E-07	2.414E-07	1.674E-07	1.240E-07	9.627E-08	7.743E-08
WNW	2.726E-05	9.448E-06	5.016E-06	2.487E-06	9.824E-07	5.257E-07	3.302E-07	2.288E-07	1.693E-07	1.313E-07	1.055E-07
NW	4.017E-05	1.356E-05	7.252E-06	3.627E-06	1.456E-06	7.878E-07	4.991E-07	3.482E-07	2.592E-07	2.021E-07	1.632E-07
NNW	7.687E-05	2.445E-05	1.282E-05	6.412E-06	2.650E-06	1.463E-06	9.412E-07	6.648E-07	5.000E-07	3.933E-07	3.199E-07
N	1.287E-04	4.018E-05	2.125E-05	1.071E-05	4.446E-06	2.462E-06	1.587E-06	1.122E-06	8.453E-07	6.656E-07	5.419E-07
NNE	7.295E-05	2.262E-05	1.201E-05	6.080E-06	2.533E-06	1.405E-06	9.066E-07	6.419E-07	4.838E-07	3.811E-07	3.105E-07
NE	4.930E-05	1.504E-05	7.757E-06	3.877E-06	1.632E-06	9.116E-07	5.914E-07	4.206E-07	3.180E-07	2.513E-07	2.053E-07
ENE	3.878E-05	1.180E-05	6.196E-06	3.129E-06	1.311E-06	7.302E-07	4.726E-07	3.354E-07	2.532E-07	1.998E-07	1.630E-07
E	5.655E-05	1.688E-05	8.605E-06	4.291E-06	1.827E-06	1.028E-06	6.704E-07	4.787E-07	3.632E-07	2.879E-07	2.357E-07
ESE	6.473E-05	1.950E-05	9.996E-06	4.989E-06	2.116E-06	1.188E-06	7.732E-07	5.514E-07	4.179E-07	3.309E-07	2.707E-07
SE	1.055E-04	3.187E-05	1.640E-05	8.200E-06	3.471E-06	1.946E-06	1.266E-06	9.021E-07	6.833E-07	5.408E-07	4.422E-07
SSE	1.021E-04	3.116E-05	1.609E-05	8.043E-06	3.388E-06	1.894E-06	1.230E-06	8.747E-07	6.617E-07	5.231E-07	4.273E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.062E-07	1.623E-07	1.075E-07	6.352E-08	4.390E-08	3.302E-08	2.620E-08	2.156E-08	1.823E-08	1.572E-08	1.378E-08
SSW	1.362E-07	7.126E-08	4.677E-08	2.731E-08	1.872E-08	1.400E-08	1.105E-08	9.057E-09	7.627E-09	6.558E-09	5.731E-09
SW	5.523E-08	2.840E-08	1.841E-08	1.057E-08	7.169E-09	5.315E-09	4.167E-09	3.396E-09	2.845E-09	2.436E-09	2.121E-09
WSW	6.623E-08	3.429E-08	2.234E-08	1.292E-08	8.801E-09	6.550E-09	5.151E-09	4.209E-09	3.535E-09	3.032E-09	2.645E-09
W	6.402E-08	3.282E-08	2.125E-08	1.218E-08	8.251E-09	6.115E-09	4.794E-09	3.907E-09	3.275E-09	2.805E-09	2.443E-09
WNW	8.717E-08	4.442E-08	2.863E-08	1.630E-08	1.099E-08	8.115E-09	6.342E-09	5.155E-09	4.310E-09	3.683E-09	3.202E-09
NW	1.353E-07	7.001E-08	4.560E-08	2.634E-08	1.793E-08	1.333E-08	1.048E-08	8.555E-09	7.182E-09	6.159E-09	5.369E-09
NNW	2.671E-07	1.418E-07	9.401E-08	5.566E-08	3.852E-08	2.901E-08	2.304E-08	1.898E-08	1.605E-08	1.385E-08	1.215E-08
N	4.527E-07	2.410E-07	1.601E-07	9.497E-08	6.581E-08	4.961E-08	3.943E-08	3.249E-08	2.749E-08	2.373E-08	2.082E-08
NNE	2.595E-07	1.383E-07	9.192E-08	5.458E-08	3.783E-08	2.852E-08	2.266E-08	1.868E-08	1.580E-08	1.364E-08	1.197E-08
NE	1.719E-07	9.244E-08	6.181E-08	3.701E-08	2.581E-08	1.955E-08	1.560E-08	1.289E-08	1.094E-08	9.469E-09	8.324E-09
ENE	1.364E-07	7.302E-08	4.868E-08	2.903E-08	2.018E-08	1.525E-08	1.214E-08	1.002E-08	8.492E-09	7.341E-09	6.446E-09
E	1.978E-07	1.072E-07	7.204E-08	4.344E-08	3.043E-08	2.313E-08	1.850E-08	1.533E-08	1.303E-08	1.130E-08	9.947E-09
ESE	2.271E-07	1.227E-07	8.236E-08	4.955E-08	3.467E-08	2.632E-08	2.104E-08	1.742E-08	1.480E-08	1.282E-08	1.128E-08
SE	3.708E-07	2.002E-07	1.342E-07	8.064E-08	5.636E-08	4.276E-08	3.416E-08	2.827E-08	2.401E-08	2.080E-08	1.830E-08
SSE	3.581E-07	1.927E-07	1.289E-07	7.725E-08	5.390E-08	4.084E-08	3.259E-08	2.695E-08	2.287E-08	1.980E-08	1.741E-08

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.441E-05	3.413E-06	1.116E-06	5.816E-07	3.694E-07	1.699E-07	6.457E-08	3.319E-08	2.162E-08	1.574E-08
SSW	6.758E-06	1.595E-06	5.092E-07	2.620E-07	1.650E-07	7.481E-08	2.782E-08	1.408E-08	9.082E-09	6.569E-09
SW	2.969E-06	6.899E-07	2.137E-07	1.081E-07	6.725E-08	2.992E-08	1.080E-08	5.350E-09	3.407E-09	2.440E-09
WSW	3.433E-06	8.045E-07	2.526E-07	1.287E-07	8.047E-08	3.608E-08	1.318E-08	6.591E-09	4.221E-09	3.038E-09
W	3.578E-06	8.129E-07	2.498E-07	1.258E-07	7.805E-08	3.461E-08	1.245E-08	6.157E-09	3.920E-09	2.810E-09
WNW	4.877E-06	1.114E-06	3.417E-07	1.718E-07	1.064E-07	4.690E-08	1.668E-08	8.173E-09	5.172E-09	3.691E-09
NW	7.042E-06	1.642E-06	5.157E-07	2.629E-07	1.644E-07	7.367E-08	2.688E-08	1.341E-08	8.581E-09	6.170E-09
NNW	1.256E-05	2.959E-06	9.698E-07	5.064E-07	3.221E-07	1.484E-07	5.657E-08	2.916E-08	1.902E-08	1.387E-08
N	2.077E-05	4.956E-06	1.634E-06	8.560E-07	5.455E-07	2.521E-07	9.648E-08	4.986E-08	3.257E-08	2.377E-08
NNE	1.173E-05	2.820E-06	9.336E-07	4.899E-07	3.125E-07	1.446E-07	5.543E-08	2.866E-08	1.872E-08	1.366E-08
NE	7.650E-06	1.811E-06	6.085E-07	3.219E-07	2.066E-07	9.649E-08	3.754E-08	1.964E-08	1.292E-08	9.481E-09
ENE	6.078E-06	1.457E-06	4.864E-07	2.564E-07	1.640E-07	7.628E-08	2.946E-08	1.532E-08	1.005E-08	7.350E-09
E	8.526E-06	2.019E-06	6.891E-07	3.675E-07	2.371E-07	1.117E-07	4.401E-08	2.322E-08	1.536E-08	1.131E-08
ESE	9.883E-06	2.342E-06	7.950E-07	4.229E-07	2.724E-07	1.280E-07	5.023E-08	2.643E-08	1.745E-08	1.284E-08
SE	1.619E-05	3.844E-06	1.302E-06	6.915E-07	4.450E-07	2.088E-07	8.175E-08	4.295E-08	2.833E-08	2.082E-08
SSE	1.586E-05	3.759E-06	1.265E-06	6.698E-07	4.300E-07	2.011E-07	7.835E-08	4.102E-08	2.701E-08	1.982E-08

VENTS GROUND LEVEL RELEASES - JUL-DEC 2025
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	8.782E-05	2.777E-05	1.464E-05	7.337E-06	3.011E-06	1.652E-06	1.056E-06	7.413E-07	5.542E-07	4.335E-07	3.506E-07
SSW	3.964E-05	1.292E-05	6.913E-06	3.470E-06	1.401E-06	7.605E-07	4.824E-07	3.366E-07	2.505E-07	1.951E-07	1.572E-07
SW	1.661E-05	5.667E-06	3.051E-06	1.523E-06	6.025E-07	3.225E-07	2.024E-07	1.401E-07	1.036E-07	8.020E-08	6.432E-08
WSW	1.977E-05	6.553E-06	3.518E-06	1.764E-06	7.043E-07	3.792E-07	2.391E-07	1.660E-07	1.230E-07	9.549E-08	7.673E-08
W	2.053E-05	6.942E-06	3.650E-06	1.801E-06	7.091E-07	3.782E-07	2.368E-07	1.635E-07	1.206E-07	9.325E-08	7.468E-08
WNW	2.722E-05	9.419E-06	4.993E-06	2.472E-06	9.734E-07	5.192E-07	3.250E-07	2.244E-07	1.655E-07	1.279E-07	1.025E-07
NW	4.010E-05	1.351E-05	7.216E-06	3.603E-06	1.441E-06	7.768E-07	4.902E-07	3.407E-07	2.527E-07	1.963E-07	1.578E-07
NNW	7.668E-05	2.433E-05	1.274E-05	6.356E-06	2.614E-06	1.436E-06	9.194E-07	6.462E-07	4.836E-07	3.786E-07	3.064E-07
N	1.284E-04	4.000E-05	2.110E-05	1.061E-05	4.386E-06	2.417E-06	1.550E-06	1.091E-06	8.178E-07	6.408E-07	5.192E-07
NNE	7.276E-05	2.250E-05	1.192E-05	6.019E-06	2.494E-06	1.376E-06	8.833E-07	6.221E-07	4.663E-07	3.654E-07	2.961E-07
NE	4.915E-05	1.495E-05	7.692E-06	3.834E-06	1.604E-06	8.908E-07	5.745E-07	4.061E-07	3.053E-07	2.398E-07	1.947E-07
ENE	3.867E-05	1.173E-05	6.146E-06	3.095E-06	1.290E-06	7.143E-07	4.597E-07	3.244E-07	2.435E-07	1.911E-07	1.549E-07
E	5.637E-05	1.677E-05	8.527E-06	4.240E-06	1.793E-06	1.003E-06	6.500E-07	4.612E-07	3.478E-07	2.739E-07	2.228E-07
ESE	6.454E-05	1.939E-05	9.911E-06	4.933E-06	2.079E-06	1.160E-06	7.510E-07	5.323E-07	4.011E-07	3.157E-07	2.567E-07
SE	1.051E-04	3.168E-05	1.626E-05	8.106E-06	3.410E-06	1.901E-06	1.229E-06	8.704E-07	6.553E-07	5.155E-07	4.190E-07
SSE	1.018E-04	3.098E-05	1.595E-05	7.952E-06	3.330E-06	1.851E-06	1.194E-06	8.444E-07	6.350E-07	4.989E-07	4.051E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.910E-07	1.503E-07	9.703E-08	5.453E-08	3.589E-08	2.575E-08	1.952E-08	1.537E-08	1.245E-08	1.030E-08	8.674E-09
SSW	1.301E-07	6.653E-08	4.268E-08	2.382E-08	1.563E-08	1.120E-08	8.483E-09	6.680E-09	5.412E-09	4.481E-09	3.776E-09
SW	5.301E-08	2.669E-08	1.695E-08	9.344E-09	6.087E-09	4.340E-09	3.276E-09	2.572E-09	2.079E-09	1.718E-09	1.445E-09
WSW	6.333E-08	3.204E-08	2.040E-08	1.128E-08	7.356E-09	5.246E-09	3.959E-09	3.107E-09	2.509E-09	2.072E-09	1.741E-09
W	6.149E-08	3.087E-08	1.956E-08	1.075E-08	6.990E-09	4.976E-09	3.752E-09	2.943E-09	2.377E-09	1.963E-09	1.650E-09
WNW	8.432E-08	4.222E-08	2.672E-08	1.469E-08	9.563E-09	6.823E-09	5.157E-09	4.057E-09	3.287E-09	2.723E-09	2.297E-09
NW	1.304E-07	6.614E-08	4.224E-08	2.347E-08	1.537E-08	1.101E-08	8.351E-09	6.585E-09	5.344E-09	4.435E-09	3.745E-09
NNW	2.545E-07	1.318E-07	8.527E-08	4.810E-08	3.177E-08	2.286E-08	1.738E-08	1.372E-08	1.114E-08	9.240E-09	7.799E-09
N	4.317E-07	2.243E-07	1.454E-07	8.232E-08	5.451E-08	3.933E-08	2.996E-08	2.370E-08	1.928E-08	1.602E-08	1.355E-08
NNE	2.461E-07	1.277E-07	8.271E-08	4.665E-08	3.076E-08	2.210E-08	1.677E-08	1.321E-08	1.071E-08	8.865E-09	7.467E-09
NE	1.621E-07	8.459E-08	5.493E-08	3.105E-08	2.048E-08	1.469E-08	1.113E-08	8.747E-09	7.069E-09	5.837E-09	4.903E-09
ENE	1.289E-07	6.711E-08	4.351E-08	2.457E-08	1.620E-08	1.163E-08	8.819E-09	6.941E-09	5.618E-09	4.645E-09	3.908E-09
E	1.859E-07	9.762E-08	6.364E-08	3.614E-08	2.389E-08	1.717E-08	1.301E-08	1.023E-08	8.271E-09	6.829E-09	5.736E-09
ESE	2.141E-07	1.123E-07	7.322E-08	4.162E-08	2.755E-08	1.984E-08	1.506E-08	1.187E-08	9.618E-09	7.959E-09	6.700E-09
SE	3.492E-07	1.829E-07	1.190E-07	6.749E-08	4.459E-08	3.204E-08	2.428E-08	1.910E-08	1.545E-08	1.276E-08	1.073E-08
SSE	3.374E-07	1.762E-07	1.145E-07	6.477E-08	4.273E-08	3.067E-08	2.323E-08	1.826E-08	1.476E-08	1.219E-08	1.024E-08

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
	SEGMENT BOUNDARIES IN MILES FROM THE SITE									
S	1.431E-05	3.368E-06	1.089E-06	5.617E-07	3.531E-07	1.579E-07	5.569E-08	2.596E-08	1.544E-08	1.033E-08
SSW	6.717E-06	1.576E-06	4.982E-07	2.540E-07	1.584E-07	7.006E-08	2.437E-08	1.129E-08	6.712E-09	4.496E-09
SW	2.953E-06	6.826E-07	2.095E-07	1.051E-07	6.484E-08	2.821E-08	9.587E-09	4.380E-09	2.585E-09	1.724E-09
WSW	3.413E-06	7.952E-07	2.472E-07	1.248E-07	7.733E-08	3.382E-08	1.156E-08	5.294E-09	3.122E-09	2.079E-09
W	3.560E-06	8.047E-07	2.452E-07	1.224E-07	7.530E-08	3.265E-08	1.104E-08	5.023E-09	2.958E-09	1.970E-09
WNW	4.856E-06	1.105E-06	3.365E-07	1.680E-07	1.033E-07	4.469E-08	1.508E-08	6.887E-09	4.078E-09	2.732E-09
NW	7.009E-06	1.626E-06	5.069E-07	2.564E-07	1.590E-07	6.978E-08	2.404E-08	1.111E-08	6.617E-09	4.449E-09
NNW	1.248E-05	2.922E-06	9.480E-07	4.901E-07	3.086E-07	1.384E-07	4.910E-08	2.304E-08	1.378E-08	9.268E-09
N	2.064E-05	4.894E-06	1.598E-06	8.285E-07	5.228E-07	2.353E-07	8.399E-08	3.963E-08	2.380E-08	1.607E-08
NNE	1.165E-05	2.780E-06	9.102E-07	4.724E-07	2.981E-07	1.340E-07	4.760E-08	2.228E-08	1.327E-08	8.893E-09
NE	7.590E-06	1.782E-06	5.915E-07	3.091E-07	1.960E-07	8.863E-08	3.166E-08	1.481E-08	8.788E-09	5.856E-09
ENE	6.032E-06	1.435E-06	4.734E-07	2.466E-07	1.560E-07	7.036E-08	2.506E-08	1.173E-08	6.973E-09	4.660E-09
E	8.454E-06	1.986E-06	6.686E-07	3.520E-07	2.242E-07	1.021E-07	3.680E-08	1.730E-08	1.028E-08	6.851E-09
ESE	9.805E-06	2.305E-06	7.727E-07	4.060E-07	2.584E-07	1.176E-07	4.239E-08	1.999E-08	1.193E-08	7.984E-09
SE	1.606E-05	3.783E-06	1.265E-06	6.635E-07	4.217E-07	1.915E-07	6.877E-08	3.228E-08	1.919E-08	1.280E-08
SSE	1.573E-05	3.700E-06	1.229E-06	6.430E-07	4.079E-07	1.846E-07	6.603E-08	3.091E-08	1.835E-08	1.223E-08

VENTS GROUND LEVEL RELEASES - JUL-DEC 2025
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	8.326E-05	2.545E-05	1.311E-05	6.466E-06	2.584E-06	1.387E-06	8.707E-07	6.016E-07	4.435E-07	3.425E-07	2.738E-07
SSW	3.758E-05	1.183E-05	6.188E-06	3.056E-06	1.201E-06	6.378E-07	3.970E-07	2.726E-07	1.999E-07	1.537E-07	1.224E-07
SW	1.574E-05	5.189E-06	2.730E-06	1.340E-06	5.160E-07	2.701E-07	1.664E-07	1.133E-07	8.247E-08	6.302E-08	4.993E-08
WSW	1.874E-05	6.002E-06	3.149E-06	1.553E-06	6.037E-07	3.179E-07	1.967E-07	1.344E-07	9.815E-08	7.519E-08	5.970E-08
W	1.946E-05	6.357E-06	3.265E-06	1.585E-06	6.070E-07	3.166E-07	1.945E-07	1.321E-07	9.599E-08	7.323E-08	5.794E-08
WNW	2.579E-05	8.620E-06	4.464E-06	2.173E-06	8.321E-07	4.337E-07	2.662E-07	1.807E-07	1.312E-07	1.001E-07	7.913E-08
NW	3.800E-05	1.237E-05	6.453E-06	3.169E-06	1.233E-06	6.498E-07	4.022E-07	2.749E-07	2.008E-07	1.539E-07	1.222E-07
NNW	7.270E-05	2.230E-05	1.141E-05	5.599E-06	2.242E-06	1.205E-06	7.573E-07	5.238E-07	3.865E-07	2.986E-07	2.389E-07
N	1.217E-04	3.665E-05	1.890E-05	9.349E-06	3.761E-06	2.028E-06	1.277E-06	8.844E-07	6.534E-07	5.054E-07	4.047E-07
NNE	6.899E-05	2.062E-05	1.068E-05	5.307E-06	2.141E-06	1.156E-06	7.289E-07	5.054E-07	3.735E-07	2.891E-07	2.316E-07
NE	4.661E-05	1.371E-05	6.896E-06	3.383E-06	1.379E-06	7.499E-07	4.751E-07	3.307E-07	2.453E-07	1.904E-07	1.529E-07
ENE	3.667E-05	1.076E-05	5.509E-06	2.730E-06	1.108E-06	6.009E-07	3.798E-07	2.639E-07	1.954E-07	1.514E-07	1.215E-07
E	5.348E-05	1.539E-05	7.649E-06	3.744E-06	1.543E-06	8.452E-07	5.383E-07	3.762E-07	2.799E-07	2.178E-07	1.753E-07
ESE	6.121E-05	1.778E-05	8.886E-06	4.353E-06	1.788E-06	9.769E-07	6.212E-07	4.336E-07	3.223E-07	2.506E-07	2.016E-07
SE	9.971E-05	2.905E-05	1.458E-05	7.154E-06	2.933E-06	1.601E-06	1.017E-06	7.092E-07	5.269E-07	4.095E-07	3.292E-07
SSE	9.659E-05	2.841E-05	1.430E-05	7.018E-06	2.864E-06	1.558E-06	9.878E-07	6.879E-07	5.103E-07	3.962E-07	3.182E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.249E-07	1.119E-07	7.009E-08	3.776E-08	2.414E-08	1.694E-08	1.262E-08	9.796E-09	7.835E-09	6.412E-09	5.344E-09
SSW	1.002E-07	4.925E-08	3.060E-08	1.631E-08	1.036E-08	7.239E-09	5.374E-09	4.160E-09	3.320E-09	2.713E-09	2.258E-09
SW	4.069E-08	1.967E-08	1.208E-08	6.341E-09	3.988E-09	2.767E-09	2.043E-09	1.574E-09	1.252E-09	1.019E-09	8.462E-10
WSW	4.874E-08	2.370E-08	1.462E-08	7.718E-09	4.872E-09	3.389E-09	2.507E-09	1.934E-09	1.540E-09	1.255E-09	1.042E-09
W	4.717E-08	2.273E-08	1.394E-08	7.301E-09	4.586E-09	3.179E-09	2.346E-09	1.807E-09	1.436E-09	1.169E-09	9.703E-10
WNW	6.436E-08	3.086E-08	1.885E-08	9.830E-09	6.156E-09	4.259E-09	3.138E-09	2.415E-09	1.918E-09	1.561E-09	1.295E-09
NW	9.978E-08	4.855E-08	2.996E-08	1.583E-08	9.996E-09	6.958E-09	5.150E-09	3.977E-09	3.169E-09	2.586E-09	2.150E-09
NNW	1.964E-07	9.787E-08	6.139E-08	3.315E-08	2.123E-08	1.493E-08	1.114E-08	8.653E-09	6.928E-09	5.676E-09	4.735E-09
N	3.329E-07	1.664E-07	1.046E-07	5.661E-08	3.632E-08	2.557E-08	1.910E-08	1.485E-08	1.190E-08	9.760E-09	8.148E-09
NNE	1.905E-07	9.529E-08	5.988E-08	3.240E-08	2.077E-08	1.461E-08	1.090E-08	8.465E-09	6.776E-09	5.550E-09	4.628E-09
NE	1.260E-07	6.352E-08	4.013E-08	2.186E-08	1.407E-08	9.921E-09	7.416E-09	5.770E-09	4.624E-09	3.790E-09	3.162E-09
ENE	1.000E-07	5.024E-08	3.166E-08	1.718E-08	1.104E-08	7.773E-09	5.805E-09	4.513E-09	3.615E-09	2.961E-09	2.470E-09
E	1.449E-07	7.355E-08	4.669E-08	2.559E-08	1.653E-08	1.169E-08	8.760E-09	6.828E-09	5.479E-09	4.495E-09	3.754E-09
ESE	1.664E-07	8.434E-08	5.347E-08	2.927E-08	1.890E-08	1.337E-08	1.001E-08	7.804E-09	6.264E-09	5.141E-09	4.295E-09
SE	2.717E-07	1.375E-07	8.708E-08	4.758E-08	3.069E-08	2.168E-08	1.623E-08	1.264E-08	1.013E-08	8.311E-09	6.938E-09
SSE	2.624E-07	1.324E-07	8.368E-08	4.561E-08	2.937E-08	2.072E-08	1.549E-08	1.206E-08	9.664E-09	7.922E-09	6.610E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.290E-05	2.915E-06	9.008E-07	4.502E-07	2.761E-07	1.184E-07	3.889E-08	1.713E-08	9.857E-09	6.438E-09
SSW	6.051E-06	1.363E-06	4.114E-07	2.030E-07	1.234E-07	5.228E-08	1.684E-08	7.325E-09	4.187E-09	2.724E-09
SW	2.659E-06	5.899E-07	1.728E-07	8.385E-08	5.038E-08	2.097E-08	6.570E-09	2.803E-09	1.585E-09	1.024E-09
WSW	3.074E-06	6.877E-07	2.041E-07	9.976E-08	6.023E-08	2.523E-08	7.987E-09	3.432E-09	1.948E-09	1.261E-09
W	3.206E-06	6.953E-07	2.021E-07	9.763E-08	5.848E-08	2.425E-08	7.569E-09	3.221E-09	1.819E-09	1.175E-09
WNW	4.369E-06	9.531E-07	2.767E-07	1.335E-07	7.986E-08	3.297E-08	1.020E-08	4.317E-09	2.432E-09	1.568E-09
NW	6.308E-06	1.404E-06	4.173E-07	2.041E-07	1.233E-07	5.167E-08	1.638E-08	7.045E-09	4.005E-09	2.597E-09
NNW	1.124E-05	2.527E-06	7.834E-07	3.922E-07	2.409E-07	1.035E-07	3.413E-08	1.509E-08	8.705E-09	5.699E-09
N	1.860E-05	4.233E-06	1.320E-06	6.630E-07	4.079E-07	1.759E-07	5.825E-08	2.585E-08	1.494E-08	9.798E-09
NNE	1.050E-05	2.407E-06	7.535E-07	3.790E-07	2.334E-07	1.007E-07	3.334E-08	1.476E-08	8.516E-09	5.572E-09
NE	6.849E-06	1.545E-06	4.907E-07	2.488E-07	1.540E-07	6.701E-08	2.245E-08	1.002E-08	5.804E-09	3.804E-09
ENE	5.440E-06	1.243E-06	3.924E-07	1.982E-07	1.224E-07	5.304E-08	1.767E-08	7.856E-09	4.540E-09	2.973E-09
E	7.632E-06	1.722E-06	5.553E-07	2.838E-07	1.766E-07	7.746E-08	2.625E-08	1.181E-08	6.866E-09	4.512E-09
ESE	8.848E-06	1.998E-06	6.410E-07	3.268E-07	2.031E-07	8.886E-08	3.004E-08	1.350E-08	7.848E-09	5.160E-09
SE	1.450E-05	3.279E-06	1.049E-06	5.343E-07	3.317E-07	1.449E-07	4.885E-08	2.190E-08	1.271E-08	8.343E-09
SSE	1.420E-05	3.207E-06	1.020E-06	5.176E-07	3.206E-07	1.396E-07	4.685E-08	2.094E-08	1.213E-08	7.952E-09

VENTS GROUND LEVEL RELEASES - JUL-DEC 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	.25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
					DISTANCES IN MILES						
S	2.255E-07	7.625E-08	3.915E-08	1.861E-08	6.686E-09	3.316E-09	1.952E-09	1.278E-09	8.995E-10	6.666E-10	5.137E-10
SSW	1.231E-07	4.161E-08	2.137E-08	1.016E-08	3.649E-09	1.809E-09	1.065E-09	6.977E-10	4.909E-10	3.638E-10	2.804E-10
SW	5.136E-08	1.737E-08	8.918E-09	4.240E-09	1.523E-09	7.552E-10	4.447E-10	2.912E-10	2.049E-10	1.518E-10	1.170E-10
WSW	5.378E-08	1.818E-08	9.337E-09	4.439E-09	1.594E-09	7.907E-10	4.656E-10	3.049E-10	2.145E-10	1.590E-10	1.225E-10
W	7.481E-08	2.530E-08	1.299E-08	6.175E-09	2.218E-09	1.100E-09	6.477E-10	4.241E-10	2.984E-10	2.212E-10	1.704E-10
WNW	1.275E-07	4.311E-08	2.213E-08	1.052E-08	3.780E-09	1.874E-09	1.104E-09	7.227E-10	5.085E-10	3.769E-10	2.904E-10
NW	1.751E-07	5.921E-08	3.040E-08	1.445E-08	5.192E-09	2.575E-09	1.516E-09	9.927E-10	6.985E-10	5.177E-10	3.989E-10
NNW	2.275E-07	7.691E-08	3.949E-08	1.877E-08	6.744E-09	3.344E-09	1.969E-09	1.289E-09	9.073E-10	6.724E-10	5.182E-10
N	3.881E-07	1.313E-07	6.739E-08	3.204E-08	1.151E-08	5.707E-09	3.361E-09	2.200E-09	1.548E-09	1.147E-09	8.843E-10
NNE	1.526E-07	5.160E-08	2.649E-08	1.260E-08	4.524E-09	2.244E-09	1.321E-09	8.651E-10	6.087E-10	4.511E-10	3.476E-10
NE	8.199E-08	2.773E-08	1.424E-08	6.768E-09	2.431E-09	1.206E-09	7.099E-10	4.648E-10	3.271E-10	2.424E-10	1.868E-10
ENE	6.997E-08	2.366E-08	1.215E-08	5.776E-09	2.075E-09	1.029E-09	6.058E-10	3.967E-10	2.791E-10	2.069E-10	1.594E-10
E	7.058E-08	2.387E-08	1.225E-08	5.826E-09	2.093E-09	1.038E-09	6.111E-10	4.001E-10	2.816E-10	2.087E-10	1.608E-10
ESE	1.087E-07	3.676E-08	1.887E-08	8.973E-09	3.223E-09	1.598E-09	9.412E-10	6.163E-10	4.337E-10	3.214E-10	2.477E-10
SE	1.924E-07	6.506E-08	3.341E-08	1.588E-08	5.705E-09	2.829E-09	1.666E-09	1.091E-09	7.675E-10	5.688E-10	4.383E-10
SSE	1.931E-07	6.530E-08	3.353E-08	1.594E-08	5.725E-09	2.839E-09	1.672E-09	1.095E-09	7.703E-10	5.709E-10	4.399E-10

DIRECTION FROM SITE	5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
					DISTANCES IN MILES						
S	4.081E-10	1.813E-10	1.098E-10	5.551E-11	3.360E-11	2.253E-11	1.614E-11	1.212E-11	9.424E-12	7.528E-12	6.145E-12
SSW	2.227E-10	9.894E-11	5.993E-11	3.029E-11	1.834E-11	1.229E-11	8.809E-12	6.615E-12	5.143E-12	4.108E-12	3.353E-12
SW	9.296E-11	4.130E-11	2.502E-11	1.264E-11	7.653E-12	5.131E-12	3.677E-12	2.761E-12	2.147E-12	1.715E-12	1.400E-12
WSW	9.733E-11	4.324E-11	2.619E-11	1.324E-11	8.012E-12	5.372E-12	3.849E-12	2.890E-12	2.247E-12	1.795E-12	1.465E-12
W	1.354E-10	6.015E-11	3.644E-11	1.842E-11	1.115E-11	7.473E-12	5.355E-12	4.021E-12	3.126E-12	2.497E-12	2.038E-12
WNW	2.307E-10	1.025E-10	6.209E-11	3.138E-11	1.899E-11	1.273E-11	9.125E-12	6.852E-12	5.328E-12	4.256E-12	3.474E-12
NW	3.169E-10	1.408E-10	8.528E-11	4.311E-11	2.609E-11	1.749E-11	1.253E-11	9.412E-12	7.318E-12	5.846E-12	4.771E-12
NNW	4.117E-10	1.829E-10	1.108E-10	5.599E-11	3.389E-11	2.272E-11	1.628E-11	1.223E-11	9.506E-12	7.593E-12	6.198E-12
N	7.025E-10	3.121E-10	1.890E-10	9.555E-11	5.783E-11	3.878E-11	2.778E-11	2.086E-11	1.622E-11	1.296E-11	1.058E-11
NNE	2.762E-10	1.227E-10	7.432E-11	3.756E-11	2.274E-11	1.524E-11	1.092E-11	8.202E-12	6.377E-12	5.094E-12	4.158E-12
NE	1.484E-10	6.592E-11	3.993E-11	2.018E-11	1.222E-11	8.191E-12	5.869E-12	4.407E-12	3.427E-12	2.737E-12	2.234E-12
ENE	1.266E-10	5.626E-11	3.408E-11	1.722E-11	1.043E-11	6.990E-12	5.009E-12	3.761E-12	2.924E-12	2.336E-12	1.907E-12
E	1.277E-10	5.675E-11	3.438E-11	1.738E-11	1.052E-11	7.051E-12	5.052E-12	3.794E-12	2.950E-12	2.356E-12	1.923E-12
ESE	1.967E-10	8.740E-11	5.295E-11	2.676E-11	1.620E-11	1.086E-11	7.782E-12	5.843E-12	4.543E-12	3.629E-12	2.962E-12
SE	3.482E-10	1.547E-10	9.371E-11	4.737E-11	2.867E-11	1.922E-11	1.377E-11	1.034E-11	8.041E-12	6.423E-12	5.243E-12
SSE	3.495E-10	1.553E-10	9.404E-11	4.753E-11	2.877E-11	1.929E-11	1.382E-11	1.038E-11	8.070E-12	6.446E-12	5.262E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION .5-1 FROM SITE	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
				SEGMENT BOUNDARIES IN MILES					
S	3.827E-08	7.839E-09	2.046E-09	9.191E-10	5.199E-10	1.999E-10	5.784E-11	2.293E-11	1.224E-11	7.578E-12
SSW	2.088E-08	4.278E-09	1.117E-09	5.016E-10	2.837E-10	1.091E-10	3.157E-11	1.251E-11	6.681E-12	4.135E-12
SW	8.717E-09	1.785E-09	4.661E-10	2.093E-10	1.184E-10	4.554E-11	1.318E-11	5.222E-12	2.788E-12	1.726E-12
WSW	9.126E-09	1.869E-09	4.880E-10	2.192E-10	1.240E-10	4.768E-11	1.379E-11	5.467E-12	2.919E-12	1.807E-12
W	1.270E-08	2.601E-09	6.789E-10	3.049E-10	1.725E-10	6.633E-11	1.919E-11	7.606E-12	4.061E-12	2.514E-12
WNW	2.163E-08	4.431E-09	1.157E-09	5.196E-10	2.939E-10	1.130E-10	3.270E-11	1.296E-11	6.921E-12	4.284E-12
NW	2.972E-08	6.087E-09	1.589E-09	7.137E-10	4.037E-10	1.553E-10	4.492E-11	1.780E-11	9.506E-12	5.884E-12
NNW	3.860E-08	7.907E-09	2.064E-09	9.270E-10	5.244E-10	2.017E-10	5.834E-11	2.312E-11	1.235E-11	7.643E-12
N	6.587E-08	1.349E-08	3.522E-09	1.582E-09	8.949E-10	3.442E-10	9.956E-11	3.946E-11	2.107E-11	1.304E-11
NNE	2.590E-08	5.304E-09	1.385E-09	6.219E-10	3.518E-10	1.353E-10	3.914E-11	1.551E-11	8.284E-12	5.128E-12
NE	1.391E-08	2.850E-09	7.441E-10	3.342E-10	1.890E-10	7.270E-11	2.103E-11	8.336E-12	4.451E-12	2.755E-12
ENE	1.187E-08	2.432E-09	6.350E-10	2.852E-10	1.613E-10	6.204E-11	1.795E-11	7.114E-12	3.799E-12	2.351E-12
E	1.198E-08	2.454E-09	6.405E-10	2.877E-10	1.627E-10	6.258E-11	1.810E-11	7.176E-12	3.832E-12	2.372E-12
ESE	1.845E-08	3.779E-09	9.865E-10	4.431E-10	2.506E-10	9.639E-11	2.788E-11	1.105E-11	5.902E-12	3.653E-12
SE	3.265E-08	6.688E-09	1.746E-09	7.842E-10	4.436E-10	1.706E-10	4.935E-11	1.956E-11	1.045E-11	6.466E-12
SSE	3.277E-08	6.712E-09	1.752E-09	7.870E-10	4.452E-10	1.712E-10	4.953E-11	1.963E-11	1.048E-11	6.489E-12

VENTS GROUND LEVEL RELEASES - JUL-DEC 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.26 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.0 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	1.3E-05	1.3E-05	1.1E-05	3.3E-08
A	Site Boundary	SSW	.82	5.6E-06	5.5E-06	4.9E-06	1.7E-08
A	Site Boundary	SW	.97	1.6E-06	1.6E-06	1.4E-06	4.5E-09
A	Site Boundary	WSW	.93	2.1E-06	2.1E-06	1.9E-06	5.4E-09
A	Site Boundary	W	.91	2.3E-06	2.3E-06	2.0E-06	7.8E-09
A	Site Boundary	WNW	.94	2.9E-06	2.9E-06	2.5E-06	1.2E-08
A	Site Boundary	NW	.81	6.0E-06	6.0E-06	5.3E-06	2.5E-08
A	Site Boundary	NNW	.69	1.5E-05	1.5E-05	1.3E-05	4.6E-08
A	Site Boundary	N	.67	2.5E-05	2.5E-05	2.2E-05	8.1E-08
A	Site Boundary	NNE	.60	1.7E-05	1.7E-05	1.5E-05	3.8E-08
A	Site Boundary	NE	.62	1.0E-05	1.0E-05	9.3E-06	1.9E-08
A	Site Boundary	ENE	.59	9.1E-06	9.0E-06	8.2E-06	1.8E-08
A	Site Boundary	E	.53	1.6E-05	1.5E-05	1.4E-05	2.2E-08
A	Site Boundary	ESE	.54	1.7E-05	1.7E-05	1.6E-05	3.3E-08
A	Site Boundary	SE	.65	2.1E-05	2.0E-05	1.8E-05	4.3E-08
A	Site Boundary	SSE	.81	1.3E-05	1.3E-05	1.2E-05	2.7E-08
A	Nearest Res	SW	1.30	8.4E-07	8.3E-07	7.2E-07	2.2E-09
A	Nearest Res	WSW	1.90	4.3E-07	4.2E-07	3.6E-07	9.0E-10
A	Nearest Res	WNW	2.50	3.3E-07	3.3E-07	2.7E-07	1.1E-09
A	Nearest Res	NW	1.20	2.4E-06	2.4E-06	2.1E-06	9.1E-09
A	Nearest Res	NNW	2.00	1.5E-06	1.4E-06	1.2E-06	3.3E-09
A	Nearest Res	NE	1.70	1.3E-06	1.2E-06	1.1E-06	1.8E-09
A	Nearest Res	E	1.90	1.1E-06	1.1E-06	9.4E-07	1.2E-09
A	Nearest Cow	NNW	3.50	5.0E-07	4.8E-07	3.9E-07	9.1E-10
A	Nearest Garde	SW	2.20	2.7E-07	2.6E-07	2.2E-07	6.0E-10
A	Nearest Garde	WSW	2.50	2.4E-07	2.4E-07	2.0E-07	4.7E-10
A	Nearest Garde	WNW	2.70	2.8E-07	2.8E-07	2.3E-07	9.2E-10
A	Nearest Garde	NNW	2.70	8.1E-07	7.9E-07	6.5E-07	1.6E-09
A	Nearest Garde	ENE	1.70	1.0E-06	9.9E-07	8.5E-07	1.5E-09
A	Nearest Garde	E	1.90	1.1E-06	1.1E-06	9.4E-07	1.2E-09
A	Nearest Garde	ESE	2.20	9.9E-07	9.6E-07	8.0E-07	1.3E-09
A	Nearest Garde	SE	1.90	2.2E-06	2.1E-06	1.8E-06	3.2E-09

Atmospheric Diffusion Estimates

Ground Level Releases

January-December 2025

VENTS GROUND LEVEL RELEASES - JAN-DEC 2025
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	7.484E-05	2.370E-05	1.254E-05	6.304E-06	2.594E-06	1.428E-06	9.167E-07	6.463E-07	4.854E-07	3.813E-07	3.098E-07
SSW	3.677E-05	1.196E-05	6.380E-06	3.200E-06	1.295E-06	7.052E-07	4.488E-07	3.144E-07	2.348E-07	1.836E-07	1.486E-07
SW	1.729E-05	5.841E-06	3.123E-06	1.556E-06	6.172E-07	3.316E-07	2.090E-07	1.452E-07	1.078E-07	8.381E-08	6.750E-08
WSW	1.601E-05	5.371E-06	2.886E-06	1.446E-06	5.753E-07	3.096E-07	1.953E-07	1.358E-07	1.008E-07	7.843E-08	6.319E-08
W	1.629E-05	5.517E-06	2.916E-06	1.444E-06	5.710E-07	3.060E-07	1.924E-07	1.335E-07	9.893E-08	7.684E-08	6.182E-08
WNW	2.132E-05	7.343E-06	3.889E-06	1.926E-06	7.609E-07	4.072E-07	2.558E-07	1.773E-07	1.312E-07	1.018E-07	8.185E-08
NW	3.251E-05	1.101E-05	5.858E-06	2.920E-06	1.167E-06	6.297E-07	3.980E-07	2.772E-07	2.061E-07	1.605E-07	1.294E-07
NNW	5.665E-05	1.803E-05	9.456E-06	4.727E-06	1.951E-06	1.076E-06	6.916E-07	4.882E-07	3.670E-07	2.886E-07	2.347E-07
N	1.043E-04	3.235E-05	1.693E-05	8.494E-06	3.542E-06	1.967E-06	1.271E-06	9.006E-07	6.792E-07	5.355E-07	4.365E-07
NNE	6.498E-05	2.004E-05	1.049E-05	5.268E-06	2.201E-06	1.224E-06	7.913E-07	5.612E-07	4.234E-07	3.340E-07	2.723E-07
NE	4.894E-05	1.496E-05	7.683E-06	3.829E-06	1.611E-06	9.004E-07	5.842E-07	4.155E-07	3.142E-07	2.484E-07	2.028E-07
ENE	3.866E-05	1.177E-05	6.087E-06	3.048E-06	1.283E-06	7.166E-07	4.649E-07	3.305E-07	2.499E-07	1.975E-07	1.613E-07
E	4.554E-05	1.380E-05	7.056E-06	3.514E-06	1.486E-06	8.332E-07	5.419E-07	3.861E-07	2.924E-07	2.314E-07	1.892E-07
ESE	5.687E-05	1.735E-05	8.942E-06	4.466E-06	1.882E-06	1.052E-06	6.828E-07	4.857E-07	3.675E-07	2.905E-07	2.373E-07
SE	8.411E-05	2.577E-05	1.326E-05	6.605E-06	2.778E-06	1.551E-06	1.006E-06	7.156E-07	5.411E-07	4.276E-07	3.492E-07
SSE	9.014E-05	2.773E-05	1.434E-05	7.162E-06	2.999E-06	1.670E-06	1.081E-06	7.676E-07	5.797E-07	4.576E-07	3.733E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.584E-07	1.367E-07	9.045E-08	5.338E-08	3.686E-08	2.772E-08	2.198E-08	1.808E-08	1.528E-08	1.318E-08	1.154E-08
SSW	1.235E-07	6.454E-08	4.232E-08	2.469E-08	1.693E-08	1.265E-08	9.990E-09	8.188E-09	6.896E-09	5.930E-09	5.183E-09
SW	5.589E-08	2.880E-08	1.870E-08	1.077E-08	7.318E-09	5.435E-09	4.268E-09	3.483E-09	2.922E-09	2.504E-09	2.182E-09
WSW	5.232E-08	2.693E-08	1.748E-08	1.006E-08	6.827E-09	5.067E-09	3.977E-09	3.243E-09	2.720E-09	2.330E-09	2.029E-09
W	5.113E-08	2.624E-08	1.699E-08	9.755E-09	6.619E-09	4.910E-09	3.853E-09	3.143E-09	2.636E-09	2.258E-09	1.967E-09
WNW	6.762E-08	3.450E-08	2.226E-08	1.270E-08	8.581E-09	6.345E-09	4.966E-09	4.040E-09	3.382E-09	2.893E-09	2.516E-09
NW	1.072E-07	5.529E-08	3.593E-08	2.070E-08	1.406E-08	1.044E-08	8.200E-09	6.690E-09	5.613E-09	4.811E-09	4.192E-09
NNW	1.959E-07	1.039E-07	6.882E-08	4.071E-08	2.816E-08	2.120E-08	1.683E-08	1.386E-08	1.172E-08	1.011E-08	8.865E-09
N	3.650E-07	1.951E-07	1.299E-07	7.734E-08	5.373E-08	4.058E-08	3.230E-08	2.665E-08	2.257E-08	1.951E-08	1.713E-08
NNE	2.278E-07	1.219E-07	8.121E-08	4.840E-08	3.364E-08	2.542E-08	2.024E-08	1.671E-08	1.415E-08	1.224E-08	1.074E-08
NE	1.699E-07	9.142E-08	6.115E-08	3.664E-08	2.556E-08	1.937E-08	1.546E-08	1.279E-08	1.085E-08	9.395E-09	8.260E-09
ENE	1.351E-07	7.262E-08	4.855E-08	2.907E-08	2.026E-08	1.535E-08	1.224E-08	1.012E-08	8.585E-09	7.430E-09	6.530E-09
E	1.587E-07	8.563E-08	5.741E-08	3.450E-08	2.412E-08	1.830E-08	1.462E-08	1.210E-08	1.028E-08	8.905E-09	7.835E-09
ESE	1.988E-07	1.070E-07	7.158E-08	4.290E-08	2.993E-08	2.268E-08	1.810E-08	1.497E-08	1.270E-08	1.100E-08	9.670E-09
SE	2.926E-07	1.573E-07	1.052E-07	6.305E-08	4.398E-08	3.333E-08	2.660E-08	2.200E-08	1.867E-08	1.616E-08	1.421E-08
SSE	3.125E-07	1.675E-07	1.118E-07	6.679E-08	4.651E-08	3.519E-08	2.805E-08	2.318E-08	1.966E-08	1.701E-08	1.494E-08

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.225E-05	2.900E-06	9.449E-07	4.917E-07	3.120E-07	1.432E-07	5.428E-08	2.786E-08	1.813E-08	1.320E-08
SSW	6.208E-06	1.456E-06	4.634E-07	2.381E-07	1.497E-07	6.778E-08	2.516E-08	1.273E-08	8.211E-09	5.940E-09
SW	3.030E-06	6.988E-07	2.162E-07	1.093E-07	6.803E-08	3.033E-08	1.100E-08	5.471E-09	3.494E-09	2.509E-09
WSW	2.798E-06	6.506E-07	2.020E-07	1.023E-07	6.368E-08	2.837E-08	1.027E-08	5.100E-09	3.253E-09	2.334E-09
W	2.840E-06	6.472E-07	1.991E-07	1.004E-07	6.231E-08	2.766E-08	9.970E-09	4.943E-09	3.153E-09	2.262E-09
WNW	3.784E-06	8.627E-07	2.648E-07	1.332E-07	8.250E-08	3.642E-08	1.299E-08	6.390E-09	4.054E-09	2.898E-09
NW	5.696E-06	1.318E-06	4.115E-07	2.090E-07	1.304E-07	5.823E-08	2.113E-08	1.051E-08	6.711E-09	4.820E-09
NNW	9.260E-06	2.179E-06	7.128E-07	3.718E-07	2.363E-07	1.087E-07	4.138E-08	2.131E-08	1.389E-08	1.013E-08
N	1.661E-05	3.943E-06	1.308E-06	6.877E-07	4.394E-07	2.039E-07	7.852E-08	4.077E-08	2.671E-08	1.954E-08
NNE	1.029E-05	2.448E-06	8.146E-07	4.287E-07	2.741E-07	1.273E-07	4.913E-08	2.554E-08	1.674E-08	1.225E-08
NE	7.587E-06	1.788E-06	6.010E-07	3.181E-07	2.041E-07	9.542E-08	3.717E-08	1.946E-08	1.281E-08	9.406E-09
ENE	5.998E-06	1.423E-06	4.782E-07	2.530E-07	1.623E-07	7.581E-08	2.949E-08	1.542E-08	1.014E-08	7.439E-09
E	6.980E-06	1.647E-06	5.572E-07	2.959E-07	1.904E-07	8.932E-08	3.498E-08	1.838E-08	1.213E-08	8.916E-09
ESE	8.820E-06	2.087E-06	7.024E-07	3.719E-07	2.388E-07	1.117E-07	4.351E-08	2.278E-08	1.500E-08	1.101E-08
SE	1.308E-05	3.083E-06	1.035E-06	5.477E-07	3.515E-07	1.642E-07	6.395E-08	3.348E-08	2.204E-08	1.618E-08
SSE	1.413E-05	3.334E-06	1.113E-06	5.868E-07	3.757E-07	1.750E-07	6.778E-08	3.536E-08	2.323E-08	1.703E-08

VENTS GROUND LEVEL RELEASES - JAN-DEC 2025
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	7.466E-05	2.359E-05	1.246E-05	6.248E-06	2.560E-06	1.402E-06	8.957E-07	6.285E-07	4.697E-07	3.672E-07	2.969E-07
SSW	3.669E-05	1.192E-05	6.343E-06	3.175E-06	1.280E-06	6.938E-07	4.397E-07	3.067E-07	2.281E-07	1.776E-07	1.431E-07
SW	1.726E-05	5.821E-06	3.107E-06	1.545E-06	6.106E-07	3.268E-07	2.052E-07	1.420E-07	1.050E-07	8.135E-08	6.526E-08
WSW	1.598E-05	5.351E-06	2.871E-06	1.435E-06	5.691E-07	3.050E-07	1.917E-07	1.328E-07	9.817E-08	7.607E-08	6.104E-08
W	1.626E-05	5.498E-06	2.901E-06	1.434E-06	5.650E-07	3.016E-07	1.890E-07	1.306E-07	9.638E-08	7.457E-08	5.975E-08
WNW	2.129E-05	7.321E-06	3.873E-06	1.915E-06	7.541E-07	4.023E-07	2.519E-07	1.740E-07	1.283E-07	9.924E-08	7.950E-08
NW	3.246E-05	1.097E-05	5.831E-06	2.902E-06	1.156E-06	6.216E-07	3.916E-07	2.718E-07	2.013E-07	1.562E-07	1.255E-07
NNW	5.652E-05	1.795E-05	9.397E-06	4.688E-06	1.926E-06	1.058E-06	6.766E-07	4.754E-07	3.558E-07	2.784E-07	2.254E-07
N	1.040E-04	3.220E-05	1.682E-05	8.420E-06	3.495E-06	1.932E-06	1.242E-06	8.760E-07	6.575E-07	5.159E-07	4.185E-07
NNE	6.481E-05	1.994E-05	1.041E-05	5.217E-06	2.169E-06	1.200E-06	7.717E-07	5.444E-07	4.087E-07	3.207E-07	2.601E-07
NE	4.880E-05	1.488E-05	7.622E-06	3.789E-06	1.586E-06	8.810E-07	5.684E-07	4.020E-07	3.023E-07	2.376E-07	1.929E-07
ENE	3.855E-05	1.170E-05	6.040E-06	3.017E-06	1.263E-06	7.015E-07	4.526E-07	3.200E-07	2.407E-07	1.891E-07	1.536E-07
E	4.540E-05	1.372E-05	6.998E-06	3.475E-06	1.462E-06	8.146E-07	5.267E-07	3.731E-07	2.810E-07	2.210E-07	1.797E-07
ESE	5.672E-05	1.726E-05	8.873E-06	4.421E-06	1.853E-06	1.030E-06	6.650E-07	4.705E-07	3.540E-07	2.783E-07	2.261E-07
SE	8.387E-05	2.563E-05	1.315E-05	6.538E-06	2.734E-06	1.519E-06	9.797E-07	6.927E-07	5.209E-07	4.094E-07	3.325E-07
SSE	8.989E-05	2.758E-05	1.423E-05	7.088E-06	2.952E-06	1.635E-06	1.052E-06	7.429E-07	5.579E-07	4.379E-07	3.552E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.465E-07	1.273E-07	8.221E-08	4.628E-08	3.053E-08	2.196E-08	1.668E-08	1.317E-08	1.069E-08	8.862E-09	7.478E-09
SSW	1.184E-07	6.054E-08	3.885E-08	2.172E-08	1.428E-08	1.026E-08	7.789E-09	6.146E-09	4.990E-09	4.141E-09	3.496E-09
SW	5.382E-08	2.720E-08	1.733E-08	9.603E-09	6.287E-09	4.502E-09	3.412E-09	2.690E-09	2.182E-09	1.810E-09	1.527E-09
WSW	5.034E-08	2.540E-08	1.616E-08	8.939E-09	5.841E-09	4.176E-09	3.160E-09	2.487E-09	2.015E-09	1.669E-09	1.407E-09
W	4.923E-08	2.476E-08	1.572E-08	8.672E-09	5.660E-09	4.043E-09	3.058E-09	2.406E-09	1.948E-09	1.613E-09	1.360E-09
WNW	6.545E-08	3.282E-08	2.080E-08	1.146E-08	7.481E-09	5.348E-09	4.050E-09	3.192E-09	2.590E-09	2.149E-09	1.815E-09
NW	1.036E-07	5.245E-08	3.346E-08	1.858E-08	1.218E-08	8.731E-09	6.626E-09	5.231E-09	4.250E-09	3.530E-09	2.985E-09
NNW	1.872E-07	9.698E-08	6.278E-08	3.548E-08	2.347E-08	1.693E-08	1.289E-08	1.020E-08	8.297E-09	6.897E-09	5.832E-09
N	3.483E-07	1.817E-07	1.182E-07	6.716E-08	4.460E-08	3.225E-08	2.462E-08	1.951E-08	1.589E-08	1.323E-08	1.120E-08
NNE	2.165E-07	1.128E-07	7.328E-08	4.153E-08	2.750E-08	1.982E-08	1.508E-08	1.191E-08	9.673E-09	8.025E-09	6.773E-09
NE	1.607E-07	8.404E-08	5.467E-08	3.101E-08	2.051E-08	1.476E-08	1.121E-08	8.836E-09	7.160E-09	5.926E-09	4.990E-09
ENE	1.280E-07	6.692E-08	4.354E-08	2.472E-08	1.637E-08	1.179E-08	8.964E-09	7.074E-09	5.739E-09	4.756E-09	4.010E-09
E	1.498E-07	7.854E-08	5.117E-08	2.908E-08	1.925E-08	1.386E-08	1.053E-08	8.298E-09	6.723E-09	5.564E-09	4.684E-09
ESE	1.884E-07	9.865E-08	6.425E-08	3.653E-08	2.422E-08	1.747E-08	1.329E-08	1.050E-08	8.527E-09	7.073E-09	5.968E-09
SE	2.770E-07	1.448E-07	9.424E-08	5.349E-08	3.542E-08	2.551E-08	1.939E-08	1.529E-08	1.240E-08	1.027E-08	8.658E-09
SSE	2.957E-07	1.541E-07	1.000E-07	5.659E-08	3.737E-08	2.686E-08	2.038E-08	1.605E-08	1.299E-08	1.075E-08	9.044E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.217E-05	2.865E-06	9.239E-07	4.760E-07	2.991E-07	1.337E-07	4.726E-08	2.213E-08	1.323E-08	8.890E-09
SSW	6.174E-06	1.441E-06	4.543E-07	2.313E-07	1.442E-07	6.376E-08	2.222E-08	1.034E-08	6.175E-09	4.154E-09
SW	3.016E-06	6.921E-07	2.124E-07	1.066E-07	6.579E-08	2.873E-08	9.845E-09	4.542E-09	2.703E-09	1.815E-09
WSW	2.784E-06	6.442E-07	1.983E-07	9.963E-08	6.153E-08	2.684E-08	9.168E-09	4.214E-09	2.499E-09	1.674E-09
W	2.826E-06	6.411E-07	1.956E-07	9.784E-08	6.024E-08	2.618E-08	8.899E-09	4.080E-09	2.418E-09	1.619E-09
WNW	3.769E-06	8.557E-07	2.608E-07	1.303E-07	8.015E-08	3.473E-08	1.177E-08	5.398E-09	3.208E-09	2.156E-09
NW	5.672E-06	1.307E-06	4.050E-07	2.042E-07	1.265E-07	5.537E-08	1.904E-08	8.808E-09	5.256E-09	3.541E-09
NNW	9.206E-06	2.154E-06	6.977E-07	3.605E-07	2.269E-07	1.018E-07	3.621E-08	1.706E-08	1.024E-08	6.917E-09
N	1.650E-05	3.895E-06	1.280E-06	6.660E-07	4.213E-07	1.905E-07	6.846E-08	3.249E-08	1.959E-08	1.327E-08
NNE	1.022E-05	2.416E-06	7.949E-07	4.139E-07	2.619E-07	1.183E-07	4.235E-08	1.997E-08	1.196E-08	8.050E-09
NE	7.530E-06	1.762E-06	5.852E-07	3.061E-07	1.942E-07	8.803E-08	3.160E-08	1.487E-08	8.876E-09	5.945E-09
ENE	5.955E-06	1.403E-06	4.659E-07	2.437E-07	1.546E-07	7.009E-08	2.519E-08	1.188E-08	7.105E-09	4.771E-09
E	6.926E-06	1.622E-06	5.420E-07	2.845E-07	1.809E-07	8.221E-08	2.962E-08	1.396E-08	8.335E-09	5.582E-09
ESE	8.757E-06	2.058E-06	6.845E-07	3.584E-07	2.276E-07	1.033E-07	3.722E-08	1.760E-08	1.055E-08	7.095E-09
SE	1.299E-05	3.039E-06	1.009E-06	5.275E-07	3.347E-07	1.517E-07	5.451E-08	2.570E-08	1.536E-08	1.031E-08
SSE	1.402E-05	3.286E-06	1.084E-06	5.650E-07	3.577E-07	1.615E-07	5.770E-08	2.707E-08	1.612E-08	1.078E-08

VENTS GROUND LEVEL RELEASES - JAN-DEC 2025
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	7.078E-05	2.161E-05	1.115E-05	5.504E-06	2.195E-06	1.177E-06	7.377E-07	5.093E-07	3.752E-07	2.896E-07	2.314E-07
SSW	3.478E-05	1.091E-05	5.676E-06	2.795E-06	1.096E-06	5.812E-07	3.615E-07	2.480E-07	1.817E-07	1.396E-07	1.112E-07
SW	1.635E-05	5.329E-06	2.779E-06	1.359E-06	5.226E-07	2.734E-07	1.684E-07	1.146E-07	8.347E-08	6.379E-08	5.055E-08
WSW	1.514E-05	4.899E-06	2.568E-06	1.263E-06	4.871E-07	2.552E-07	1.573E-07	1.072E-07	7.808E-08	5.969E-08	4.731E-08
W	1.541E-05	5.033E-06	2.595E-06	1.262E-06	4.835E-07	2.523E-07	1.551E-07	1.054E-07	7.662E-08	5.848E-08	4.629E-08
WNW	2.017E-05	6.700E-06	3.462E-06	1.683E-06	6.445E-07	3.360E-07	2.063E-07	1.401E-07	1.017E-07	7.760E-08	6.137E-08
NW	3.075E-05	1.004E-05	5.213E-06	2.551E-06	9.885E-07	5.195E-07	3.209E-07	2.190E-07	1.597E-07	1.223E-07	9.699E-08
NNW	5.358E-05	1.645E-05	8.412E-06	4.128E-06	1.651E-06	8.866E-07	5.567E-07	3.849E-07	2.838E-07	2.193E-07	1.754E-07
N	9.860E-05	2.951E-05	1.506E-05	7.417E-06	2.997E-06	1.621E-06	1.023E-06	7.097E-07	5.251E-07	4.067E-07	3.261E-07
NNE	6.145E-05	1.828E-05	9.326E-06	4.599E-06	1.862E-06	1.008E-06	6.364E-07	4.419E-07	3.271E-07	2.534E-07	2.032E-07
NE	4.628E-05	1.364E-05	6.831E-06	3.342E-06	1.362E-06	7.410E-07	4.696E-07	3.269E-07	2.425E-07	1.882E-07	1.512E-07
ENE	3.656E-05	1.073E-05	5.412E-06	2.660E-06	1.085E-06	5.898E-07	3.737E-07	2.601E-07	1.929E-07	1.497E-07	1.202E-07
E	4.306E-05	1.258E-05	6.273E-06	3.066E-06	1.256E-06	6.855E-07	4.354E-07	3.037E-07	2.256E-07	1.753E-07	1.410E-07
ESE	5.378E-05	1.582E-05	7.951E-06	3.898E-06	1.591E-06	8.658E-07	5.489E-07	3.823E-07	2.837E-07	2.203E-07	1.769E-07
SE	7.954E-05	2.350E-05	1.179E-05	5.765E-06	2.349E-06	1.277E-06	8.090E-07	5.632E-07	4.177E-07	3.242E-07	2.604E-07
SSE	8.525E-05	2.528E-05	1.275E-05	6.251E-06	2.536E-06	1.375E-06	8.692E-07	6.040E-07	4.474E-07	3.469E-07	2.783E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.900E-07	9.442E-08	5.910E-08	3.182E-08	2.035E-08	1.429E-08	1.065E-08	8.269E-09	6.617E-09	5.419E-09	4.519E-09
SSW	9.098E-08	4.467E-08	2.773E-08	1.478E-08	9.395E-09	6.570E-09	4.881E-09	3.781E-09	3.020E-09	2.469E-09	2.057E-09
SW	4.121E-08	1.997E-08	1.229E-08	6.475E-09	4.085E-09	2.842E-09	2.103E-09	1.624E-09	1.294E-09	1.055E-09	8.777E-10
WSW	3.857E-08	1.867E-08	1.148E-08	6.040E-09	3.806E-09	2.645E-09	1.955E-09	1.508E-09	1.201E-09	9.790E-10	8.135E-10
W	3.770E-08	1.819E-08	1.116E-08	5.859E-09	3.689E-09	2.562E-09	1.893E-09	1.460E-09	1.162E-09	9.474E-10	7.871E-10
WNW	4.994E-08	2.397E-08	1.466E-08	7.661E-09	4.809E-09	3.333E-09	2.459E-09	1.895E-09	1.507E-09	1.228E-09	1.019E-09
NW	7.913E-08	3.839E-08	2.364E-08	1.247E-08	7.864E-09	5.470E-09	4.047E-09	3.126E-09	2.490E-09	2.032E-09	1.690E-09
NNW	1.441E-07	7.178E-08	4.501E-08	2.430E-08	1.557E-08	1.095E-08	8.171E-09	6.353E-09	5.089E-09	4.172E-09	3.482E-09
N	2.685E-07	1.347E-07	8.488E-08	4.612E-08	2.967E-08	2.093E-08	1.566E-08	1.220E-08	9.787E-09	8.034E-09	6.714E-09
NNE	1.673E-07	8.402E-08	5.295E-08	2.877E-08	1.849E-08	1.304E-08	9.748E-09	7.588E-09	6.084E-09	4.990E-09	4.167E-09
NE	1.247E-07	6.290E-08	3.977E-08	2.169E-08	1.398E-08	9.871E-09	7.386E-09	5.753E-09	4.615E-09	3.786E-09	3.161E-09
ENE	9.915E-08	5.000E-08	3.160E-08	1.723E-08	1.110E-08	7.838E-09	5.865E-09	4.569E-09	3.665E-09	3.007E-09	2.512E-09
E	1.163E-07	5.888E-08	3.730E-08	2.040E-08	1.317E-08	9.308E-09	6.971E-09	5.433E-09	4.360E-09	3.579E-09	2.990E-09
ESE	1.459E-07	7.367E-08	4.660E-08	2.544E-08	1.640E-08	1.159E-08	8.679E-09	6.764E-09	5.429E-09	4.456E-09	3.724E-09
SE	2.147E-07	1.083E-07	6.847E-08	3.735E-08	2.407E-08	1.700E-08	1.273E-08	9.913E-09	7.953E-09	6.526E-09	5.451E-09
SSE	2.293E-07	1.153E-07	7.272E-08	3.955E-08	2.544E-08	1.794E-08	1.341E-08	1.044E-08	8.365E-09	6.858E-09	5.724E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.097E-05	2.478E-06	7.633E-07	3.809E-07	2.333E-07	9.997E-08	3.278E-08	1.445E-08	8.319E-09	5.441E-09
SSW	5.560E-06	1.245E-06	3.747E-07	1.846E-07	1.121E-07	4.743E-08	1.527E-08	6.648E-09	3.805E-09	2.480E-09
SW	2.714E-06	5.977E-07	1.749E-07	8.488E-08	5.102E-08	2.128E-08	6.705E-09	2.878E-09	1.635E-09	1.060E-09
WSW	2.506E-06	5.564E-07	1.634E-07	7.938E-08	4.774E-08	1.990E-08	6.256E-09	2.679E-09	1.519E-09	9.834E-10
W	2.544E-06	5.537E-07	1.611E-07	7.793E-08	4.672E-08	1.940E-08	6.073E-09	2.595E-09	1.470E-09	9.517E-10
WNW	3.391E-06	7.383E-07	2.144E-07	1.035E-07	6.194E-08	2.560E-08	7.949E-09	3.377E-09	1.908E-09	1.233E-09
NW	5.103E-06	1.127E-06	3.331E-07	1.624E-07	9.786E-08	4.089E-08	1.290E-08	5.539E-09	3.147E-09	2.041E-09
NNW	8.294E-06	1.862E-06	5.760E-07	2.881E-07	1.768E-07	7.596E-08	2.502E-08	1.107E-08	6.391E-09	4.188E-09
N	1.487E-05	3.367E-06	1.057E-06	5.328E-07	3.286E-07	1.423E-07	4.742E-08	2.115E-08	1.227E-08	8.064E-09
NNE	9.214E-06	2.090E-06	6.576E-07	3.318E-07	2.048E-07	8.873E-08	2.958E-08	1.318E-08	7.632E-09	5.009E-09
NE	6.793E-06	1.526E-06	4.849E-07	2.459E-07	1.523E-07	6.635E-08	2.228E-08	9.972E-09	5.786E-09	3.800E-09
ENE	5.371E-06	1.215E-06	3.859E-07	1.957E-07	1.212E-07	5.274E-08	1.770E-08	7.919E-09	4.595E-09	3.019E-09
E	6.250E-06	1.405E-06	4.494E-07	2.288E-07	1.420E-07	6.206E-08	2.094E-08	9.402E-09	5.464E-09	3.592E-09
ESE	7.898E-06	1.781E-06	5.668E-07	2.877E-07	1.783E-07	7.770E-08	2.613E-08	1.171E-08	6.802E-09	4.473E-09
SE	1.171E-05	2.632E-06	8.354E-07	4.236E-07	2.624E-07	1.142E-07	3.836E-08	1.718E-08	9.970E-09	6.551E-09
SSE	1.265E-05	2.845E-06	8.980E-07	4.539E-07	2.804E-07	1.217E-07	4.065E-08	1.813E-08	1.050E-08	6.884E-09

VENTS GROUND LEVEL RELEASES - JAN-DEC 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	.25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
					DISTANCES IN MILES						
S	2.263E-07	7.652E-08	3.929E-08	1.868E-08	6.709E-09	3.327E-09	1.959E-09	1.283E-09	9.027E-10	6.690E-10	5.155E-10
SSW	1.389E-07	4.698E-08	2.412E-08	1.147E-08	4.119E-09	2.043E-09	1.203E-09	7.876E-10	5.542E-10	4.107E-10	3.165E-10
SW	6.845E-08	2.315E-08	1.188E-08	5.650E-09	2.029E-09	1.006E-09	5.926E-10	3.880E-10	2.730E-10	2.024E-10	1.559E-10
WSW	5.696E-08	1.926E-08	9.890E-09	4.702E-09	1.689E-09	8.376E-10	4.932E-10	3.229E-10	2.272E-10	1.684E-10	1.298E-10
W	6.597E-08	2.231E-08	1.145E-08	5.445E-09	1.956E-09	9.700E-10	5.712E-10	3.740E-10	2.632E-10	1.950E-10	1.503E-10
WNW	1.041E-07	3.522E-08	1.808E-08	8.596E-09	3.088E-09	1.531E-09	9.017E-10	5.904E-10	4.154E-10	3.079E-10	2.373E-10
NW	1.647E-07	5.569E-08	2.859E-08	1.359E-08	4.883E-09	2.421E-09	1.426E-09	9.336E-10	6.569E-10	4.868E-10	3.752E-10
NNW	1.921E-07	6.498E-08	3.336E-08	1.586E-08	5.697E-09	2.825E-09	1.664E-09	1.089E-09	7.665E-10	5.681E-10	4.378E-10
N	3.231E-07	1.093E-07	5.610E-08	2.667E-08	9.580E-09	4.751E-09	2.797E-09	1.832E-09	1.289E-09	9.552E-10	7.361E-10
NNE	1.642E-07	5.553E-08	2.851E-08	1.355E-08	4.869E-09	2.415E-09	1.422E-09	9.309E-10	6.551E-10	4.855E-10	3.741E-10
NE	9.621E-08	3.253E-08	1.670E-08	7.942E-09	2.853E-09	1.415E-09	8.330E-10	5.454E-10	3.838E-10	2.844E-10	2.192E-10
ENE	7.706E-08	2.606E-08	1.338E-08	6.361E-09	2.285E-09	1.133E-09	6.672E-10	4.369E-10	3.074E-10	2.278E-10	1.756E-10
E	7.422E-08	2.510E-08	1.289E-08	6.126E-09	2.201E-09	1.091E-09	6.426E-10	4.207E-10	2.961E-10	2.194E-10	1.691E-10
ESE	1.249E-07	4.224E-08	2.169E-08	1.031E-08	3.704E-09	1.837E-09	1.082E-09	7.082E-10	4.983E-10	3.693E-10	2.846E-10
SE	2.079E-07	7.031E-08	3.610E-08	1.716E-08	6.165E-09	3.057E-09	1.800E-09	1.179E-09	8.294E-10	6.147E-10	4.737E-10
SSE	2.308E-07	7.806E-08	4.008E-08	1.905E-08	6.844E-09	3.394E-09	1.999E-09	1.309E-09	9.209E-10	6.824E-10	5.259E-10

DIRECTION FROM SITE	5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
					DISTANCES IN MILES						
S	4.096E-10	1.819E-10	1.102E-10	5.571E-11	3.372E-11	2.261E-11	1.620E-11	1.216E-11	9.457E-12	7.554E-12	6.166E-12
SSW	2.514E-10	1.117E-10	6.766E-11	3.420E-11	2.070E-11	1.388E-11	9.944E-12	7.467E-12	5.806E-12	4.638E-12	3.785E-12
SW	1.239E-10	5.503E-11	3.334E-11	1.685E-11	1.020E-11	6.838E-12	4.900E-12	3.679E-12	2.861E-12	2.285E-12	1.865E-12
WSW	1.031E-10	4.580E-11	2.774E-11	1.402E-11	8.487E-12	5.690E-12	4.078E-12	3.062E-12	2.381E-12	1.902E-12	1.552E-12
W	1.194E-10	5.304E-11	3.213E-11	1.624E-11	9.829E-12	6.590E-12	4.722E-12	3.546E-12	2.757E-12	2.202E-12	1.798E-12
WNW	1.885E-10	8.373E-11	5.072E-11	2.564E-11	1.552E-11	1.040E-11	7.455E-12	5.598E-12	4.352E-12	3.477E-12	2.838E-12
NW	2.981E-10	1.324E-10	8.020E-11	4.054E-11	2.454E-11	1.645E-11	1.179E-11	8.852E-12	6.882E-12	5.498E-12	4.487E-12
NNW	3.478E-10	1.545E-10	9.358E-11	4.730E-11	2.863E-11	1.920E-11	1.375E-11	1.033E-11	8.030E-12	6.415E-12	5.236E-12
N	5.848E-10	2.598E-10	1.574E-10	7.954E-11	4.814E-11	3.228E-11	2.313E-11	1.737E-11	1.350E-11	1.079E-11	8.804E-12
NNE	2.972E-10	1.320E-10	7.998E-11	4.042E-11	2.447E-11	1.640E-11	1.175E-11	8.826E-12	6.863E-12	5.482E-12	4.475E-12
NE	1.741E-10	7.736E-11	4.686E-11	2.368E-11	1.434E-11	9.611E-12	6.887E-12	5.171E-12	4.021E-12	3.212E-12	2.622E-12
ENE	1.395E-10	6.196E-11	3.753E-11	1.897E-11	1.148E-11	7.698E-12	5.516E-12	4.142E-12	3.221E-12	2.573E-12	2.100E-12
E	1.343E-10	5.967E-11	3.615E-11	1.827E-11	1.106E-11	7.414E-12	5.313E-12	3.989E-12	3.102E-12	2.478E-12	2.022E-12
ESE	2.261E-10	1.004E-10	6.084E-11	3.075E-11	1.861E-11	1.248E-11	8.942E-12	6.715E-12	5.221E-12	4.170E-12	3.404E-12
SE	3.763E-10	1.672E-10	1.013E-10	5.119E-11	3.098E-11	2.077E-11	1.488E-11	1.118E-11	8.690E-12	6.941E-12	5.666E-12
SSE	4.178E-10	1.856E-10	1.124E-10	5.683E-11	3.439E-11	2.306E-11	1.652E-11	1.241E-11	9.647E-12	7.706E-12	6.290E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION .5-1 FROM SITE	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
				SEGMENT BOUNDARIES IN MILES					
S	3.840E-08	7.866E-09	2.053E-09	9.223E-10	5.217E-10	2.006E-10	5.804E-11	2.301E-11	1.229E-11	7.604E-12
SSW	2.358E-08	4.829E-09	1.261E-09	5.662E-10	3.203E-10	1.232E-10	3.563E-11	1.412E-11	7.542E-12	4.668E-12
SW	1.162E-08	2.379E-09	6.211E-10	2.790E-10	1.578E-10	6.069E-11	1.756E-11	6.959E-12	3.716E-12	2.300E-12
WSW	9.667E-09	1.980E-09	5.169E-10	2.322E-10	1.313E-10	5.051E-11	1.461E-11	5.791E-12	3.092E-12	1.914E-12
W	1.120E-08	2.293E-09	5.987E-10	2.689E-10	1.521E-10	5.849E-11	1.692E-11	6.707E-12	3.581E-12	2.217E-12
WNW	1.767E-08	3.620E-09	9.451E-10	4.245E-10	2.401E-10	9.234E-11	2.671E-11	1.059E-11	5.654E-12	3.500E-12
NW	2.795E-08	5.725E-09	1.494E-09	6.712E-10	3.797E-10	1.460E-10	4.224E-11	1.674E-11	8.940E-12	5.534E-12
NNW	3.261E-08	6.679E-09	1.744E-09	7.831E-10	4.430E-10	1.704E-10	4.929E-11	1.953E-11	1.043E-11	6.457E-12
N	5.483E-08	1.123E-08	2.932E-09	1.317E-09	7.450E-10	2.865E-10	8.288E-11	3.285E-11	1.754E-11	1.086E-11
NNE	2.787E-08	5.708E-09	1.490E-09	6.693E-10	3.786E-10	1.456E-10	4.212E-11	1.669E-11	8.915E-12	5.518E-12
NE	1.633E-08	3.344E-09	8.731E-10	3.921E-10	2.218E-10	8.531E-11	2.468E-11	9.781E-12	5.223E-12	3.233E-12
ENE	1.308E-08	2.679E-09	6.993E-10	3.141E-10	1.777E-10	6.833E-11	1.977E-11	7.834E-12	4.184E-12	2.589E-12
E	1.260E-08	2.580E-09	6.735E-10	3.025E-10	1.711E-10	6.581E-11	1.904E-11	7.545E-12	4.029E-12	2.494E-12
ESE	2.120E-08	4.342E-09	1.134E-09	5.091E-10	2.880E-10	1.108E-10	3.204E-11	1.270E-11	6.782E-12	4.198E-12
SE	3.529E-08	7.228E-09	1.887E-09	8.474E-10	4.794E-10	1.844E-10	5.334E-11	2.114E-11	1.129E-11	6.987E-12
SSE	3.918E-08	8.024E-09	2.095E-09	9.408E-10	5.322E-10	2.047E-10	5.921E-11	2.347E-11	1.253E-11	7.757E-12

VENTS GROUND LEVEL RELEASES - JAN-DEC 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.26 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.0 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	1.1E-05	1.1E-05	9.6E-06	3.3E-08
A	Site Boundary	SSW	.82	5.1E-06	5.1E-06	4.5E-06	1.9E-08
A	Site Boundary	SW	.97	1.7E-06	1.6E-06	1.4E-06	6.0E-09
A	Site Boundary	WSW	.93	1.7E-06	1.7E-06	1.5E-06	5.7E-09
A	Site Boundary	W	.91	1.8E-06	1.8E-06	1.6E-06	6.9E-09
A	Site Boundary	WNW	.94	2.3E-06	2.2E-06	2.0E-06	1.0E-08
A	Site Boundary	NW	.81	4.8E-06	4.8E-06	4.3E-06	2.3E-08
A	Site Boundary	NNW	.69	1.1E-05	1.1E-05	9.7E-06	3.9E-08
A	Site Boundary	N	.67	2.0E-05	2.0E-05	1.8E-05	6.7E-08
A	Site Boundary	NNE	.60	1.5E-05	1.5E-05	1.3E-05	4.1E-08
A	Site Boundary	NE	.62	1.0E-05	1.0E-05	9.2E-06	2.3E-08
A	Site Boundary	ENE	.59	9.0E-06	9.0E-06	8.1E-06	2.0E-08
A	Site Boundary	E	.53	1.3E-05	1.3E-05	1.2E-05	2.3E-08
A	Site Boundary	ESE	.54	1.5E-05	1.5E-05	1.4E-05	3.8E-08
A	Site Boundary	SE	.65	1.7E-05	1.7E-05	1.5E-05	4.6E-08
A	Site Boundary	SSE	.81	1.2E-05	1.2E-05	1.0E-05	3.3E-08
A	Nearest Res	SW	1.30	8.5E-07	8.4E-07	7.3E-07	2.9E-09
A	Nearest Res	WSW	1.90	3.5E-07	3.4E-07	2.9E-07	9.5E-10
A	Nearest Res	WNW	2.50	2.6E-07	2.5E-07	2.1E-07	9.0E-10
A	Nearest Res	NW	1.20	1.9E-06	1.9E-06	1.7E-06	8.5E-09
A	Nearest Res	NNW	2.00	1.1E-06	1.1E-06	8.9E-07	2.8E-09
A	Nearest Res	NE	1.70	1.2E-06	1.2E-06	1.0E-06	2.1E-09
A	Nearest Res	E	1.90	9.2E-07	9.0E-07	7.6E-07	1.2E-09
A	Nearest Cow	NNW	3.50	3.7E-07	3.6E-07	2.8E-07	7.7E-10
A	Nearest Garde	SW	2.20	2.7E-07	2.7E-07	2.2E-07	8.0E-10
A	Nearest Garde	WSW	2.50	2.0E-07	1.9E-07	1.6E-07	4.9E-10
A	Nearest Garde	WNW	2.70	2.2E-07	2.2E-07	1.8E-07	7.5E-10
A	Nearest Garde	NNW	2.70	6.0E-07	5.8E-07	4.8E-07	1.4E-09
A	Nearest Garde	ENE	1.70	9.9E-07	9.8E-07	8.3E-07	1.7E-09
A	Nearest Garde	E	1.90	9.2E-07	9.0E-07	7.6E-07	1.2E-09
A	Nearest Garde	ESE	2.20	8.7E-07	8.5E-07	7.1E-07	1.5E-09
A	Nearest Garde	SE	1.90	1.7E-06	1.7E-06	1.4E-06	3.5E-09

Atmospheric Diffusion Estimates

Elevated Releases

January-March 2025

ERP ELEVATED STACK RELEASES - JAN-MAR 2025
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.698E-10	1.141E-08	3.611E-08	5.021E-08	5.315E-08	4.512E-08	3.693E-08	3.038E-08	2.537E-08	2.914E-08	3.228E-08
SSW	7.215E-09	3.485E-08	5.269E-08	5.714E-08	5.248E-08	4.210E-08	3.322E-08	3.253E-08	3.030E-08	2.530E-08	2.150E-08
SW	2.957E-11	2.298E-09	2.629E-08	5.900E-08	7.633E-08	4.821E-08	3.314E-08	2.429E-08	1.869E-08	1.491E-08	1.225E-08
WSW	3.295E-16	3.382E-10	1.577E-08	4.274E-08	7.542E-08	4.959E-08	3.556E-08	2.710E-08	2.156E-08	1.772E-08	1.494E-08
W	8.249E-14	1.617E-08	1.006E-07	1.492E-07	1.563E-07	1.001E-07	6.981E-08	5.187E-08	4.037E-08	3.254E-08	2.695E-08
WNW	5.110E-15	4.004E-09	8.065E-08	1.734E-07	2.401E-07	1.500E-07	1.034E-07	8.046E-08	6.538E-08	5.230E-08	4.308E-08
NW	5.444E-16	5.420E-10	3.071E-08	9.531E-08	1.832E-07	1.112E-07	7.568E-08	5.728E-08	4.552E-08	3.646E-08	3.007E-08
NNW	1.316E-15	9.268E-10	2.559E-08	6.382E-08	1.125E-07	1.189E-07	1.180E-07	1.144E-07	1.118E-07	8.924E-08	7.343E-08
N	7.444E-09	1.476E-08	2.923E-08	4.063E-08	4.679E-08	4.324E-08	3.749E-08	3.160E-08	2.691E-08	2.322E-08	2.030E-08
NNE	5.913E-11	4.340E-09	2.182E-08	3.741E-08	4.698E-08	4.317E-08	3.703E-08	3.143E-08	2.683E-08	2.315E-08	2.022E-08
NE	8.389E-16	7.038E-10	1.112E-08	2.161E-08	2.818E-08	2.619E-08	2.266E-08	1.939E-08	1.668E-08	1.450E-08	1.275E-08
ENE	4.295E-16	4.293E-10	7.305E-09	1.490E-08	2.054E-08	1.963E-08	1.725E-08	1.491E-08	1.291E-08	1.128E-08	9.952E-09
E	3.581E-16	4.977E-10	9.538E-09	2.022E-08	2.795E-08	2.618E-08	2.252E-08	1.906E-08	1.619E-08	1.390E-08	1.207E-08
ESE	1.159E-15	9.043E-10	1.400E-08	2.678E-08	3.388E-08	3.077E-08	2.621E-08	2.218E-08	1.893E-08	1.637E-08	1.433E-08
SE	6.473E-11	5.354E-09	3.736E-08	6.513E-08	7.916E-08	7.108E-08	6.010E-08	5.052E-08	4.285E-08	3.679E-08	3.199E-08
SSE	6.197E-11	8.017E-09	4.865E-08	8.055E-08	9.339E-08	8.164E-08	6.777E-08	5.619E-08	4.715E-08	4.013E-08	3.465E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.883E-08	1.871E-08	1.208E-08	6.864E-09	4.714E-09	3.506E-09	2.719E-09	2.195E-09	1.832E-09	1.561E-09	1.350E-09
SSW	1.889E-08	1.125E-08	7.076E-09	3.886E-09	2.583E-09	1.870E-09	1.434E-09	1.147E-09	9.455E-10	7.978E-10	6.856E-10
SW	1.086E-08	7.968E-09	5.212E-09	3.017E-09	2.186E-09	1.692E-09	1.366E-09	1.109E-09	9.261E-10	7.907E-10	6.868E-10
WSW	1.376E-08	1.068E-08	8.133E-09	5.309E-09	3.628E-09	2.707E-09	2.134E-09	1.748E-09	1.471E-09	1.264E-09	1.105E-09
W	2.282E-08	1.257E-08	9.080E-09	6.003E-09	4.472E-09	3.314E-09	2.590E-09	2.104E-09	1.759E-09	1.503E-09	1.306E-09
WNW	3.685E-08	2.131E-08	1.483E-08	9.309E-09	6.467E-09	4.876E-09	3.890E-09	3.197E-09	2.682E-09	2.294E-09	1.997E-09
NW	2.582E-08	1.516E-08	1.076E-08	6.858E-09	4.683E-09	3.492E-09	2.821E-09	2.319E-09	1.948E-09	1.671E-09	1.458E-09
NNW	6.376E-08	3.842E-08	2.534E-08	1.487E-08	1.022E-08	7.650E-09	6.123E-09	5.072E-09	4.356E-09	3.762E-09	3.284E-09
N	1.800E-08	1.151E-08	9.761E-09	8.173E-09	6.973E-09	5.739E-09	4.511E-09	3.671E-09	3.071E-09	2.625E-09	2.282E-09
NNE	2.182E-08	3.257E-08	2.122E-08	1.226E-08	8.343E-09	6.204E-09	4.877E-09	3.983E-09	3.345E-09	2.869E-09	2.502E-09
NE	1.420E-08	2.033E-08	1.319E-08	7.571E-09	5.128E-09	3.798E-09	3.001E-09	2.457E-09	2.066E-09	1.767E-09	1.537E-09
ENE	1.082E-08	2.047E-08	1.378E-08	8.283E-09	5.777E-09	4.372E-09	3.709E-09	3.176E-09	2.680E-09	2.308E-09	2.020E-09
E	1.229E-08	1.266E-08	8.203E-09	4.685E-09	3.155E-09	2.325E-09	1.814E-09	1.471E-09	1.259E-09	1.092E-09	9.468E-10
ESE	1.505E-08	1.922E-08	1.276E-08	7.517E-09	5.163E-09	3.860E-09	3.045E-09	2.493E-09	2.097E-09	1.800E-09	1.571E-09
SE	2.813E-08	1.735E-08	1.349E-08	9.865E-09	7.333E-09	5.874E-09	4.931E-09	4.267E-09	3.590E-09	3.084E-09	2.692E-09
SSE	3.616E-08	3.855E-08	2.469E-08	1.393E-08	9.323E-09	6.841E-09	5.319E-09	4.304E-09	3.585E-09	3.052E-09	2.645E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
	SEGMENT BOUNDARIES IN MILES FROM THE SITE									
S	3.689E-08	4.893E-08	3.649E-08	2.824E-08	3.007E-08	1.801E-08	7.068E-09	3.514E-09	2.206E-09	1.563E-09
SSW	5.070E-08	4.890E-08	3.531E-08	2.903E-08	2.166E-08	1.109E-08	4.016E-09	1.886E-09	1.152E-09	8.000E-10
SW	3.550E-08	5.998E-08	3.362E-08	1.885E-08	1.252E-08	7.386E-09	3.136E-09	1.694E-09	1.113E-09	7.923E-10
WSW	2.432E-08	5.667E-08	3.592E-08	2.168E-08	1.533E-08	1.023E-08	5.189E-09	2.724E-09	1.753E-09	1.266E-09
W	1.034E-07	1.297E-07	7.070E-08	4.067E-08	2.708E-08	1.330E-08	6.006E-09	3.333E-09	2.112E-09	1.506E-09
WNW	1.049E-07	1.853E-07	1.066E-07	6.471E-08	4.350E-08	2.188E-08	9.272E-09	4.906E-09	3.199E-09	2.299E-09
NW	5.272E-08	1.316E-07	7.778E-08	4.543E-08	3.039E-08	1.557E-08	6.758E-09	3.541E-09	2.321E-09	1.674E-09
NNW	3.710E-08	1.045E-07	1.168E-07	1.039E-07	7.453E-08	3.824E-08	1.513E-08	7.724E-09	5.099E-09	3.761E-09
N	3.108E-08	4.384E-08	3.666E-08	2.684E-08	2.031E-08	1.217E-08	7.993E-09	5.577E-09	3.682E-09	2.630E-09
NNE	2.487E-08	4.316E-08	3.643E-08	2.674E-08	2.168E-08	2.513E-08	1.251E-08	6.243E-09	3.995E-09	2.874E-09
NE	1.347E-08	2.584E-08	2.229E-08	1.662E-08	1.380E-08	1.579E-08	7.733E-09	3.834E-09	2.464E-09	1.770E-09
ENE	9.152E-09	1.888E-08	1.695E-08	1.286E-08	1.067E-08	1.535E-08	8.390E-09	4.482E-09	3.139E-09	2.311E-09
E	1.228E-08	2.545E-08	2.211E-08	1.614E-08	1.269E-08	1.060E-08	4.787E-09	2.342E-09	1.488E-09	1.088E-09
ESE	1.677E-08	3.092E-08	2.581E-08	1.888E-08	1.520E-08	1.542E-08	7.636E-09	3.882E-09	2.500E-09	1.803E-09
SE	4.259E-08	7.245E-08	5.920E-08	4.273E-08	3.198E-08	1.803E-08	9.545E-09	5.886E-09	4.199E-09	3.089E-09
SSE	5.380E-08	8.532E-08	6.684E-08	4.706E-08	3.683E-08	3.186E-08	1.428E-08	6.894E-09	4.320E-09	3.059E-09

ERP ELEVATED STACK RELEASES - JAN-MAR 2025
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.698E-10	1.141E-08	3.608E-08	5.016E-08	5.307E-08	4.503E-08	3.683E-08	3.028E-08	2.527E-08	2.898E-08	3.205E-08
SSW	7.213E-09	3.483E-08	5.265E-08	5.708E-08	5.240E-08	4.202E-08	3.314E-08	3.243E-08	3.020E-08	2.519E-08	2.140E-08
SW	2.956E-11	2.297E-09	2.626E-08	5.892E-08	7.614E-08	4.805E-08	3.300E-08	2.417E-08	1.858E-08	1.481E-08	1.215E-08
WSW	3.294E-16	3.379E-10	1.575E-08	4.267E-08	7.523E-08	4.942E-08	3.542E-08	2.696E-08	2.144E-08	1.760E-08	1.483E-08
W	8.245E-14	1.615E-08	1.004E-07	1.488E-07	1.557E-07	9.956E-08	6.936E-08	5.147E-08	4.000E-08	3.221E-08	2.665E-08
WNW	5.108E-15	3.999E-09	8.050E-08	1.730E-07	2.392E-07	1.492E-07	1.027E-07	7.985E-08	6.481E-08	5.178E-08	4.260E-08
NW	5.442E-16	5.417E-10	3.068E-08	9.519E-08	1.828E-07	1.108E-07	7.538E-08	5.701E-08	4.527E-08	3.622E-08	2.986E-08
NNW	1.316E-15	9.264E-10	2.557E-08	6.374E-08	1.123E-07	1.185E-07	1.175E-07	1.138E-07	1.111E-07	8.868E-08	7.291E-08
N	7.443E-09	1.476E-08	2.921E-08	4.058E-08	4.669E-08	4.311E-08	3.735E-08	3.145E-08	2.676E-08	2.308E-08	2.016E-08
NNE	5.912E-11	4.338E-09	2.180E-08	3.736E-08	4.686E-08	4.302E-08	3.686E-08	3.125E-08	2.666E-08	2.298E-08	2.005E-08
NE	8.387E-16	7.034E-10	1.111E-08	2.158E-08	2.813E-08	2.612E-08	2.258E-08	1.931E-08	1.660E-08	1.441E-08	1.267E-08
ENE	4.294E-16	4.290E-10	7.297E-09	1.487E-08	2.048E-08	1.955E-08	1.717E-08	1.483E-08	1.283E-08	1.119E-08	9.869E-09
E	3.579E-16	4.973E-10	9.523E-09	2.018E-08	2.785E-08	2.605E-08	2.237E-08	1.891E-08	1.605E-08	1.375E-08	1.193E-08
ESE	1.159E-15	9.038E-10	1.399E-08	2.675E-08	3.382E-08	3.070E-08	2.612E-08	2.209E-08	1.885E-08	1.628E-08	1.425E-08
SE	6.472E-11	5.352E-09	3.734E-08	6.507E-08	7.903E-08	7.092E-08	5.993E-08	5.034E-08	4.267E-08	3.661E-08	3.181E-08
SSE	6.194E-11	8.011E-09	4.861E-08	8.048E-08	9.326E-08	8.148E-08	6.760E-08	5.603E-08	4.698E-08	3.996E-08	3.449E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.858E-08	1.843E-08	1.184E-08	6.650E-09	4.514E-09	3.318E-09	2.544E-09	2.030E-09	1.675E-09	1.411E-09	1.206E-09
SSW	1.880E-08	1.116E-08	7.000E-09	3.823E-09	2.527E-09	1.820E-09	1.388E-09	1.104E-09	9.048E-10	7.593E-10	6.489E-10
SW	1.077E-08	7.864E-09	5.121E-09	2.939E-09	2.111E-09	1.619E-09	1.296E-09	1.042E-09	8.629E-10	7.303E-10	6.288E-10
WSW	1.365E-08	1.055E-08	8.000E-09	5.180E-09	3.512E-09	2.599E-09	2.033E-09	1.651E-09	1.378E-09	1.175E-09	1.018E-09
W	2.253E-08	1.234E-08	8.861E-09	5.794E-09	4.271E-09	3.131E-09	2.419E-09	1.945E-09	1.608E-09	1.360E-09	1.169E-09
WNW	3.639E-08	2.092E-08	1.447E-08	8.984E-09	6.170E-09	4.600E-09	3.629E-09	2.948E-09	2.446E-09	2.069E-09	1.781E-09
NW	2.561E-08	1.498E-08	1.058E-08	6.694E-09	4.535E-09	3.354E-09	2.688E-09	2.192E-09	1.827E-09	1.555E-09	1.346E-09
NNW	6.326E-08	3.798E-08	2.495E-08	1.453E-08	9.913E-09	7.369E-09	5.855E-09	4.815E-09	4.106E-09	3.520E-09	3.051E-09
N	1.786E-08	1.137E-08	9.615E-09	8.001E-09	6.787E-09	5.552E-09	4.337E-09	3.507E-09	2.915E-09	2.476E-09	2.140E-09
NNE	2.162E-08	3.210E-08	2.081E-08	1.191E-08	8.026E-09	5.911E-09	4.602E-09	3.723E-09	3.097E-09	2.631E-09	2.273E-09
NE	1.410E-08	2.008E-08	1.297E-08	7.383E-09	4.959E-09	3.643E-09	2.855E-09	2.318E-09	1.933E-09	1.640E-09	1.415E-09
ENE	1.072E-08	2.022E-08	1.356E-08	8.088E-09	5.598E-09	4.204E-09	3.540E-09	3.008E-09	2.519E-09	2.153E-09	1.870E-09
E	1.213E-08	1.244E-08	8.018E-09	4.530E-09	3.018E-09	2.201E-09	1.700E-09	1.365E-09	1.157E-09	9.943E-10	8.535E-10
ESE	1.496E-08	1.904E-08	1.260E-08	7.375E-09	5.035E-09	3.741E-09	2.933E-09	2.386E-09	1.995E-09	1.702E-09	1.477E-09
SE	2.796E-08	1.719E-08	1.332E-08	9.677E-09	7.146E-09	5.685E-09	4.739E-09	4.072E-09	3.403E-09	2.903E-09	2.518E-09
SSE	3.596E-08	3.809E-08	2.430E-08	1.360E-08	9.021E-09	6.563E-09	5.059E-09	4.058E-09	3.351E-09	2.829E-09	2.430E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.686E-08	4.885E-08	3.639E-08	2.812E-08	2.986E-08	1.775E-08	6.853E-09	3.328E-09	2.042E-09	1.413E-09
SSW	5.066E-08	4.883E-08	3.522E-08	2.893E-08	2.156E-08	1.101E-08	3.953E-09	1.836E-09	1.109E-09	7.615E-10
SW	3.545E-08	5.983E-08	3.348E-08	1.874E-08	1.243E-08	7.290E-09	3.056E-09	1.621E-09	1.046E-09	7.320E-10
WSW	2.429E-08	5.653E-08	3.577E-08	2.155E-08	1.521E-08	1.010E-08	5.065E-09	2.616E-09	1.656E-09	1.177E-09
W	1.032E-07	1.292E-07	7.026E-08	4.031E-08	2.677E-08	1.306E-08	5.799E-09	3.150E-09	1.952E-09	1.363E-09
WNW	1.046E-07	1.845E-07	1.060E-07	6.414E-08	4.302E-08	2.149E-08	8.953E-09	4.630E-09	2.951E-09	2.074E-09
NW	5.265E-08	1.313E-07	7.748E-08	4.518E-08	3.017E-08	1.539E-08	6.599E-09	3.402E-09	2.195E-09	1.558E-09
NNW	3.706E-08	1.042E-07	1.163E-07	1.034E-07	7.401E-08	3.781E-08	1.480E-08	7.442E-09	4.842E-09	3.520E-09
N	3.105E-08	4.374E-08	3.652E-08	2.670E-08	2.017E-08	1.203E-08	7.820E-09	5.395E-09	3.519E-09	2.482E-09
NNE	2.483E-08	4.304E-08	3.626E-08	2.657E-08	2.150E-08	2.475E-08	1.216E-08	5.951E-09	3.736E-09	2.637E-09
NE	1.345E-08	2.578E-08	2.222E-08	1.654E-08	1.371E-08	1.559E-08	7.547E-09	3.679E-09	2.325E-09	1.644E-09
ENE	9.138E-09	1.882E-08	1.687E-08	1.278E-08	1.058E-08	1.515E-08	8.197E-09	4.310E-09	2.974E-09	2.157E-09
E	1.225E-08	2.534E-08	2.197E-08	1.599E-08	1.254E-08	1.041E-08	4.633E-09	2.219E-09	1.381E-09	9.902E-10
ESE	1.675E-08	3.086E-08	2.573E-08	1.880E-08	1.511E-08	1.527E-08	7.496E-09	3.763E-09	2.393E-09	1.705E-09
SE	4.255E-08	7.232E-08	5.902E-08	4.256E-08	3.181E-08	1.786E-08	9.362E-09	5.696E-09	4.008E-09	2.909E-09
SSE	5.375E-08	8.518E-08	6.667E-08	4.689E-08	3.666E-08	3.149E-08	1.394E-08	6.617E-09	4.075E-09	2.836E-09

ERP ELEVATED STACK RELEASES - JAN-MAR 2025
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.698E-10	1.132E-08	3.576E-08	4.985E-08	5.245E-08	4.418E-08	3.588E-08	2.931E-08	2.432E-08	2.791E-08	3.095E-08
SSW	7.214E-09	3.454E-08	5.190E-08	5.641E-08	5.160E-08	4.107E-08	3.213E-08	3.125E-08	2.892E-08	2.397E-08	2.025E-08
SW	2.956E-11	2.283E-09	2.621E-08	5.891E-08	7.513E-08	4.681E-08	3.180E-08	2.308E-08	1.759E-08	1.392E-08	1.135E-08
WSW	3.294E-16	3.381E-10	1.576E-08	4.265E-08	7.449E-08	4.863E-08	3.470E-08	2.633E-08	2.089E-08	1.713E-08	1.441E-08
W	8.248E-14	1.616E-08	1.001E-07	1.477E-07	1.538E-07	9.785E-08	6.791E-08	5.025E-08	3.896E-08	3.131E-08	2.586E-08
WNW	5.110E-15	4.002E-09	8.059E-08	1.724E-07	2.365E-07	1.464E-07	1.002E-07	7.769E-08	6.292E-08	5.007E-08	4.101E-08
NW	5.443E-16	5.419E-10	3.071E-08	9.491E-08	1.811E-07	1.092E-07	7.398E-08	5.582E-08	4.425E-08	3.530E-08	2.898E-08
NNW	1.316E-15	9.267E-10	2.558E-08	6.380E-08	1.116E-07	1.172E-07	1.162E-07	1.125E-07	1.100E-07	8.751E-08	7.167E-08
N	7.444E-09	1.464E-08	2.893E-08	4.036E-08	4.623E-08	4.242E-08	3.655E-08	3.062E-08	2.594E-08	2.229E-08	1.940E-08
NNE	5.913E-11	4.310E-09	2.170E-08	3.729E-08	4.648E-08	4.238E-08	3.609E-08	3.043E-08	2.583E-08	2.218E-08	1.928E-08
NE	8.389E-16	7.037E-10	1.111E-08	2.160E-08	2.794E-08	2.577E-08	2.215E-08	1.884E-08	1.613E-08	1.396E-08	1.223E-08
ENE	4.295E-16	4.292E-10	7.303E-09	1.489E-08	2.036E-08	1.931E-08	1.686E-08	1.449E-08	1.249E-08	1.086E-08	9.551E-09
E	3.580E-16	4.976E-10	9.534E-09	2.021E-08	2.767E-08	2.569E-08	2.191E-08	1.840E-08	1.553E-08	1.324E-08	1.143E-08
ESE	1.159E-15	9.042E-10	1.400E-08	2.677E-08	3.358E-08	3.025E-08	2.557E-08	2.151E-08	1.826E-08	1.571E-08	1.370E-08
SE	6.472E-11	5.325E-09	3.725E-08	6.501E-08	7.839E-08	6.983E-08	5.863E-08	4.897E-08	4.130E-08	3.528E-08	3.053E-08
SSE	6.196E-11	7.969E-09	4.845E-08	8.033E-08	9.242E-08	8.013E-08	6.601E-08	5.436E-08	4.532E-08	3.835E-08	3.295E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.756E-08	1.755E-08	1.097E-08	5.837E-09	3.731E-09	2.613E-09	1.928E-09	1.489E-09	1.194E-09	9.859E-10	8.279E-10
SSW	1.770E-08	1.026E-08	6.257E-09	3.249E-09	2.048E-09	1.424E-09	1.053E-09	8.154E-10	6.525E-10	5.356E-10	4.485E-10
SW	1.003E-08	7.289E-09	4.625E-09	2.524E-09	1.717E-09	1.256E-09	9.764E-10	7.656E-10	6.197E-10	5.138E-10	4.342E-10
WSW	1.327E-08	1.012E-08	7.466E-09	4.604E-09	3.007E-09	2.158E-09	1.644E-09	1.305E-09	1.067E-09	8.933E-10	7.613E-10
W	2.183E-08	1.190E-08	8.481E-09	5.273E-09	3.689E-09	2.629E-09	1.983E-09	1.561E-09	1.268E-09	1.054E-09	8.931E-10
WNW	3.488E-08	1.957E-08	1.318E-08	7.728E-09	4.956E-09	3.505E-09	2.686E-09	2.130E-09	1.728E-09	1.434E-09	1.212E-09
NW	2.475E-08	1.410E-08	9.679E-09	5.780E-09	3.718E-09	2.635E-09	2.048E-09	1.629E-09	1.328E-09	1.107E-09	9.408E-10
NNW	6.193E-08	3.618E-08	2.302E-08	1.253E-08	7.894E-09	5.492E-09	4.135E-09	3.272E-09	2.714E-09	2.271E-09	1.926E-09
N	1.714E-08	1.082E-08	9.164E-09	7.700E-09	6.423E-09	5.046E-09	3.849E-09	3.048E-09	2.487E-09	2.077E-09	1.768E-09
NNE	2.081E-08	3.119E-08	1.963E-08	1.068E-08	6.868E-09	4.869E-09	3.671E-09	2.887E-09	2.342E-09	1.946E-09	1.647E-09
NE	1.365E-08	1.954E-08	1.224E-08	6.625E-09	4.258E-09	3.017E-09	2.295E-09	1.820E-09	1.487E-09	1.238E-09	1.050E-09
ENE	1.040E-08	1.985E-08	1.292E-08	7.227E-09	4.636E-09	3.270E-09	2.607E-09	2.135E-09	1.743E-09	1.457E-09	1.239E-09
E	1.160E-08	1.191E-08	7.470E-09	4.002E-09	2.512E-09	1.744E-09	1.290E-09	9.975E-10	8.160E-10	6.811E-10	5.718E-10
ESE	1.439E-08	1.849E-08	1.188E-08	6.540E-09	4.158E-09	2.912E-09	2.169E-09	1.686E-09	1.353E-09	1.112E-09	9.313E-10
SE	2.674E-08	1.624E-08	1.254E-08	9.124E-09	6.745E-09	5.387E-09	4.515E-09	3.882E-09	3.187E-09	2.677E-09	2.288E-09
SSE	3.435E-08	3.646E-08	2.255E-08	1.196E-08	7.542E-09	5.264E-09	3.916E-09	3.045E-09	2.445E-09	2.013E-09	1.689E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.659E-08	4.820E-08	3.547E-08	2.711E-08	2.880E-08	1.685E-08	6.041E-09	2.637E-09	1.502E-09	9.891E-10
SSW	5.005E-08	4.799E-08	3.416E-08	2.770E-08	2.041E-08	1.014E-08	3.384E-09	1.442E-09	8.214E-10	5.380E-10
SW	3.543E-08	5.894E-08	3.232E-08	1.776E-08	1.162E-08	6.713E-09	2.632E-09	1.267E-09	7.702E-10	5.157E-10
WSW	2.429E-08	5.592E-08	3.507E-08	2.101E-08	1.479E-08	9.639E-09	4.530E-09	2.178E-09	1.311E-09	8.959E-10
W	1.026E-07	1.276E-07	6.883E-08	3.927E-08	2.598E-08	1.259E-08	5.282E-09	2.653E-09	1.570E-09	1.058E-09
WNW	1.044E-07	1.822E-07	1.035E-07	6.224E-08	4.142E-08	2.013E-08	7.708E-09	3.564E-09	2.136E-09	1.439E-09
NW	5.254E-08	1.300E-07	7.610E-08	4.415E-08	2.928E-08	1.450E-08	5.730E-09	2.689E-09	1.634E-09	1.111E-09
NNW	3.709E-08	1.035E-07	1.150E-07	1.022E-07	7.275E-08	3.605E-08	1.280E-08	5.590E-09	3.306E-09	2.275E-09
N	3.083E-08	4.323E-08	3.574E-08	2.589E-08	1.942E-08	1.149E-08	7.458E-09	4.934E-09	3.063E-09	2.084E-09
NNE	2.476E-08	4.262E-08	3.551E-08	2.576E-08	2.071E-08	2.374E-08	1.097E-08	4.923E-09	2.904E-09	1.953E-09
NE	1.346E-08	2.556E-08	2.179E-08	1.608E-08	1.327E-08	1.499E-08	6.821E-09	3.059E-09	1.829E-09	1.242E-09
ENE	9.148E-09	1.868E-08	1.657E-08	1.244E-08	1.025E-08	1.467E-08	7.340E-09	3.369E-09	2.121E-09	1.461E-09
E	1.227E-08	2.513E-08	2.151E-08	1.548E-08	1.203E-08	9.869E-09	4.110E-09	1.767E-09	1.012E-09	6.806E-10
ESE	1.677E-08	3.059E-08	2.519E-08	1.822E-08	1.455E-08	1.464E-08	6.668E-09	2.947E-09	1.697E-09	1.116E-09
SE	4.250E-08	7.161E-08	5.775E-08	4.120E-08	3.054E-08	1.693E-08	8.826E-09	5.400E-09	3.798E-09	2.684E-09
SSE	5.362E-08	8.427E-08	6.511E-08	4.525E-08	3.507E-08	2.981E-08	1.235E-08	5.332E-09	3.065E-09	2.021E-09

ERP ELEVATED STACK RELEASES - JAN-MAR 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.717E-09	2.064E-09	2.743E-09	2.462E-09	1.435E-09	9.411E-10	6.580E-10	4.809E-10	3.633E-10	3.233E-10	2.705E-10
SSW	3.516E-09	3.246E-09	3.330E-09	2.628E-09	1.418E-09	9.056E-10	6.250E-10	4.538E-10	4.248E-10	3.210E-10	2.512E-10
SW	3.161E-10	5.236E-10	8.393E-10	8.062E-10	9.363E-10	5.100E-10	3.160E-10	2.145E-10	1.550E-10	1.172E-10	9.169E-11
WSW	2.813E-11	1.688E-10	3.594E-10	8.358E-10	4.607E-10	2.506E-10	1.550E-10	1.051E-10	7.588E-11	5.734E-11	4.486E-11
W	2.813E-11	1.356E-09	1.339E-09	9.696E-10	4.551E-10	2.480E-10	1.540E-10	1.052E-10	7.679E-11	5.894E-11	4.702E-11
WNW	4.823E-11	2.893E-10	1.274E-09	1.528E-09	8.949E-10	4.703E-10	2.871E-10	1.984E-10	1.597E-10	1.261E-10	1.053E-10
NW	4.421E-11	2.652E-10	5.647E-10	1.537E-09	1.022E-09	5.103E-10	3.044E-10	2.062E-10	1.539E-10	1.240E-10	1.061E-10
NNW	8.976E-11	5.385E-10	1.147E-09	1.188E-09	1.457E-09	7.957E-10	4.980E-10	4.324E-10	3.281E-10	2.689E-10	2.342E-10
N	2.440E-09	2.285E-09	2.386E-09	1.902E-09	1.034E-09	6.618E-10	4.573E-10	3.322E-10	2.502E-10	1.938E-10	1.534E-10
NNE	6.175E-10	9.587E-10	1.490E-09	1.417E-09	8.510E-10	5.636E-10	3.959E-10	2.900E-10	2.193E-10	1.701E-10	1.347E-10
NE	6.296E-11	3.778E-10	8.043E-10	8.331E-10	5.204E-10	3.489E-10	2.465E-10	1.811E-10	1.371E-10	1.064E-10	8.429E-11
ENE	3.751E-11	2.250E-10	4.792E-10	4.963E-10	3.100E-10	2.079E-10	1.468E-10	1.079E-10	8.169E-11	6.341E-11	5.021E-11
E	4.421E-11	2.652E-10	5.647E-10	5.850E-10	3.654E-10	2.450E-10	1.731E-10	1.271E-10	9.628E-11	7.473E-11	5.918E-11
ESE	8.306E-11	4.983E-10	1.061E-09	1.099E-09	6.865E-10	4.603E-10	3.251E-10	2.388E-10	1.809E-10	1.404E-10	1.112E-10
SE	9.952E-10	1.852E-09	3.117E-09	3.039E-09	1.847E-09	1.228E-09	8.639E-10	6.334E-10	4.792E-10	3.718E-10	2.944E-10
SSE	8.077E-10	2.100E-09	3.921E-09	3.935E-09	2.423E-09	1.618E-09	1.141E-09	8.370E-10	6.336E-10	4.917E-10	3.894E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	2.175E-10	1.262E-10	8.132E-11	4.464E-11	2.783E-11	2.335E-11	1.668E-11	1.249E-11	9.645E-12	7.656E-12	6.249E-12
SSW	2.020E-10	1.040E-10	6.436E-11	3.402E-11	2.758E-11	1.870E-11	1.340E-11	1.006E-11	7.825E-12	6.251E-12	5.102E-12
SW	7.403E-11	4.059E-11	2.561E-11	1.375E-11	8.515E-12	7.211E-12	5.318E-12	3.993E-12	3.105E-12	2.480E-12	2.024E-12
WSW	3.612E-11	3.561E-11	2.607E-11	1.588E-11	9.613E-12	6.445E-12	4.618E-12	3.468E-12	2.696E-12	2.154E-12	1.758E-12
W	3.866E-11	1.912E-11	3.381E-11	2.181E-11	1.208E-11	8.264E-12	5.922E-12	4.446E-12	3.457E-12	2.762E-12	2.254E-12
WNW	9.235E-11	5.838E-11	4.249E-11	2.593E-11	1.642E-11	1.045E-11	7.360E-12	5.530E-12	4.422E-12	3.532E-12	2.883E-12
NW	9.527E-11	6.468E-11	4.862E-11	2.940E-11	1.795E-11	1.201E-11	8.452E-12	6.346E-12	4.934E-12	3.942E-12	3.217E-12
NNW	2.137E-10	1.511E-10	1.154E-10	7.291E-11	4.684E-11	3.094E-11	2.036E-11	1.456E-11	1.118E-11	8.928E-12	7.288E-12
N	1.237E-10	5.880E-11	3.597E-11	1.908E-11	5.174E-11	3.076E-11	2.199E-11	1.651E-11	1.284E-11	1.026E-11	8.373E-12
NNE	1.085E-10	1.757E-10	1.083E-10	5.588E-11	3.404E-11	2.279E-11	1.629E-11	1.219E-11	9.460E-12	7.543E-12	6.148E-12
NE	6.788E-11	1.253E-10	7.661E-11	3.918E-11	2.380E-11	1.594E-11	1.153E-11	8.596E-12	6.683E-12	5.339E-12	4.358E-12
ENE	4.044E-11	7.981E-11	6.234E-11	4.001E-11	2.579E-11	1.702E-11	1.188E-11	7.411E-12	5.763E-12	4.605E-12	3.760E-12
E	4.766E-11	5.000E-11	3.563E-11	2.135E-11	1.356E-11	8.989E-12	6.324E-12	4.648E-12	3.555E-12	2.799E-12	2.285E-12
ESE	8.955E-11	1.161E-10	8.595E-11	5.308E-11	3.393E-11	2.245E-11	1.573E-11	1.151E-11	8.756E-12	6.867E-12	5.518E-12
SE	2.372E-10	1.124E-10	6.853E-11	3.607E-11	2.202E-11	1.520E-11	1.145E-11	2.654E-11	2.030E-11	1.601E-11	1.295E-11
SSE	3.136E-10	3.367E-10	2.067E-10	1.062E-10	6.460E-11	4.327E-11	3.095E-11	2.320E-11	1.801E-11	1.436E-11	1.171E-11

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	2.467E-09	1.444E-09	6.626E-10	3.816E-10	2.665E-10	1.265E-10	4.532E-11	2.188E-11	1.260E-11	7.724E-12
SSW	2.999E-09	1.459E-09	6.313E-10	3.935E-10	2.537E-10	1.082E-10	3.790E-11	1.895E-11	1.017E-11	6.292E-12
SW	7.544E-10	7.179E-10	3.271E-10	1.576E-10	9.270E-11	4.136E-11	1.406E-11	6.802E-12	4.033E-12	2.497E-12
WSW	5.288E-10	4.507E-10	1.605E-10	7.717E-11	4.532E-11	3.148E-11	1.536E-11	6.559E-12	3.503E-12	2.168E-12
W	1.179E-09	4.774E-10	1.595E-10	7.810E-11	4.745E-11	2.999E-11	2.015E-11	8.346E-12	4.491E-12	2.780E-12
WNW	1.168E-09	8.469E-10	3.005E-10	1.579E-10	1.067E-10	5.887E-11	2.539E-11	1.081E-11	5.631E-12	3.555E-12
NW	9.304E-10	9.091E-10	3.200E-10	1.574E-10	1.074E-10	6.434E-11	2.858E-11	1.217E-11	6.410E-12	3.968E-12
NNW	1.030E-09	1.103E-09	5.511E-10	3.354E-10	2.369E-10	1.492E-10	7.077E-11	3.095E-11	1.493E-11	8.987E-12
N	2.149E-09	1.061E-09	4.618E-10	2.522E-10	1.544E-10	6.309E-11	3.735E-11	3.285E-11	1.668E-11	1.032E-11
NNE	1.340E-09	8.491E-10	3.983E-10	2.208E-10	1.355E-10	1.308E-10	5.781E-11	2.319E-11	1.232E-11	7.594E-12
NE	7.223E-10	5.137E-10	2.476E-10	1.380E-10	8.477E-11	9.089E-11	4.066E-11	1.628E-11	8.706E-12	5.374E-12
ENE	4.303E-10	3.060E-10	1.475E-10	8.220E-11	5.050E-11	6.330E-11	3.865E-11	1.730E-11	8.060E-12	4.635E-12
E	5.072E-10	3.607E-10	1.739E-10	9.688E-11	5.952E-11	4.310E-11	2.106E-11	9.142E-12	4.710E-12	2.833E-12
ESE	9.529E-10	6.776E-10	3.267E-10	1.820E-10	1.118E-10	9.679E-11	5.188E-11	2.282E-11	1.167E-11	6.927E-12
SE	2.801E-09	1.837E-09	8.687E-10	4.823E-10	2.962E-10	1.206E-10	3.704E-11	1.552E-11	1.985E-11	1.615E-11
SSE	3.522E-09	2.401E-09	1.146E-09	6.377E-10	3.916E-10	2.738E-10	1.100E-10	4.403E-11	2.344E-11	1.446E-11

ERP ELEVATED STACK RELEASES - JAN-MAR 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.26 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.0 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	4.0E-08	4.0E-08	4.0E-08	2.7E-09
A	Site Boundary	SSW	.82	5.5E-08	5.5E-08	5.4E-08	3.2E-09
A	Site Boundary	SW	.97	5.6E-08	5.6E-08	5.6E-08	8.3E-10
A	Site Boundary	WSW	.93	3.5E-08	3.5E-08	3.5E-08	7.8E-10
A	Site Boundary	W	.91	1.4E-07	1.4E-07	1.4E-07	1.0E-09
A	Site Boundary	WNW	.94	1.5E-07	1.5E-07	1.5E-07	1.7E-09
A	Site Boundary	NW	.81	4.6E-08	4.5E-08	4.6E-08	6.0E-10
A	Site Boundary	NNW	.69	1.6E-08	1.6E-08	1.6E-08	9.9E-10
A	Site Boundary	N	.67	2.3E-08	2.3E-08	2.3E-08	2.3E-09
A	Site Boundary	NNE	.60	9.2E-09	9.2E-09	9.1E-09	1.2E-09
A	Site Boundary	NE	.62	4.3E-09	4.3E-09	4.3E-09	5.9E-10
A	Site Boundary	ENE	.59	1.8E-09	1.8E-09	1.8E-09	3.1E-10
A	Site Boundary	E	.53	8.2E-10	8.2E-10	8.2E-10	2.9E-10
A	Site Boundary	ESE	.54	1.8E-09	1.8E-09	1.8E-09	5.8E-10
A	Site Boundary	SE	.65	2.1E-08	2.1E-08	2.1E-08	2.6E-09
A	Site Boundary	SSE	.81	5.9E-08	5.9E-08	5.8E-08	4.1E-09
A	Nearest Res	SW	1.30	7.6E-08	7.6E-08	7.6E-08	1.2E-09
A	Nearest Res	WSW	1.90	5.4E-08	5.3E-08	5.3E-08	2.8E-10
A	Nearest Res	WNW	2.50	1.0E-07	1.0E-07	1.0E-07	2.9E-10
A	Nearest Res	NW	1.20	1.4E-07	1.4E-07	1.4E-07	1.1E-09
A	Nearest Res	NNW	2.00	1.2E-07	1.2E-07	1.2E-07	8.0E-10
A	Nearest Res	NE	1.70	2.8E-08	2.8E-08	2.8E-08	4.4E-10
A	Nearest Res	E	1.90	2.7E-08	2.7E-08	2.6E-08	2.6E-10
A	Nearest Cow	NNW	3.50	1.1E-07	1.1E-07	1.1E-07	3.3E-10
A	Nearest Garde	SW	2.20	4.1E-08	4.1E-08	4.0E-08	4.2E-10
A	Nearest Garde	WSW	2.50	3.6E-08	3.5E-08	3.5E-08	1.6E-10
A	Nearest Garde	WNW	2.70	9.3E-08	9.2E-08	9.0E-08	2.4E-10
A	Nearest Garde	NNW	2.70	1.2E-07	1.2E-07	1.1E-07	5.1E-10
A	Nearest Garde	ENE	1.70	2.1E-08	2.0E-08	2.0E-08	2.6E-10
A	Nearest Garde	E	1.90	2.7E-08	2.7E-08	2.6E-08	2.6E-10
A	Nearest Garde	ESE	2.20	2.9E-08	2.9E-08	2.8E-08	4.0E-10
A	Nearest Garde	SE	1.90	7.3E-08	7.3E-08	7.2E-08	1.3E-09
A	MAXIMUM CHI/Q	S	1.50	5.3E-08	5.3E-08	5.2E-08	1.4E-09
A	MAXIMUM CHI/Q	SSW	1.00	5.7E-08	5.7E-08	5.6E-08	2.6E-09
A	MAXIMUM CHI/Q	SW	1.50	7.6E-08	7.6E-08	7.5E-08	9.4E-10
A	MAXIMUM CHI/Q	WSW	1.50	7.5E-08	7.5E-08	7.4E-08	4.6E-10
A	MAXIMUM CHI/Q	W	1.50	1.6E-07	1.6E-07	1.5E-07	4.6E-10
A	MAXIMUM CHI/Q	WNW	1.50	2.4E-07	2.4E-07	2.4E-07	8.9E-10
A	MAXIMUM CHI/Q	NW	1.50	1.8E-07	1.8E-07	1.8E-07	1.0E-09
A	MAXIMUM CHI/Q	NNW	2.00	1.2E-07	1.2E-07	1.2E-07	8.0E-10
A	MAXIMUM CHI/Q	N	1.50	4.7E-08	4.7E-08	4.6E-08	1.0E-09
A	MAXIMUM CHI/Q	NNE	1.50	4.7E-08	4.7E-08	4.6E-08	8.5E-10
A	MAXIMUM CHI/Q	NE	1.50	2.8E-08	2.8E-08	2.8E-08	5.2E-10
A	MAXIMUM CHI/Q	ENE	1.50	2.1E-08	2.0E-08	2.0E-08	3.1E-10
A	MAXIMUM CHI/Q	E	1.50	2.8E-08	2.8E-08	2.8E-08	3.7E-10
A	MAXIMUM CHI/Q	ESE	1.50	3.4E-08	3.4E-08	3.4E-08	6.9E-10
A	MAXIMUM CHI/Q	SE	1.50	7.9E-08	7.9E-08	7.8E-08	1.8E-09
A	MAXIMUM CHI/Q	SSE	1.50	9.3E-08	9.3E-08	9.2E-08	2.4E-09

Atmospheric Diffusion Estimates

Elevated Releases

April-June 2025

ERP ELEVATED STACK RELEASES - APR-JUN 2025
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	6.194E-08	7.942E-08	9.849E-08	9.121E-08	7.707E-08	6.210E-08	4.991E-08	4.071E-08	3.383E-08	3.815E-08	4.110E-08
SSW	1.465E-08	9.339E-08	1.033E-07	7.742E-08	5.214E-08	3.935E-08	3.119E-08	3.325E-08	3.458E-08	3.035E-08	2.696E-08
SW	6.886E-09	5.492E-08	1.128E-07	1.544E-07	2.043E-07	1.349E-07	9.562E-08	7.167E-08	5.605E-08	4.529E-08	3.757E-08
WSW	1.397E-10	1.389E-08	6.750E-08	1.330E-07	2.159E-07	1.396E-07	9.851E-08	7.396E-08	5.809E-08	4.719E-08	3.936E-08
W	1.702E-09	8.470E-08	2.616E-07	3.327E-07	3.375E-07	2.181E-07	1.536E-07	1.150E-07	9.012E-08	7.304E-08	6.078E-08
WNW	4.577E-09	5.184E-08	2.039E-07	3.530E-07	4.727E-07	2.949E-07	2.026E-07	1.561E-07	1.249E-07	9.930E-08	8.133E-08
NW	9.219E-09	5.564E-08	2.010E-07	4.333E-07	6.643E-07	3.902E-07	2.584E-07	1.889E-07	1.453E-07	1.144E-07	9.292E-08
NNW	2.554E-08	5.470E-08	8.309E-08	1.073E-07	1.488E-07	1.476E-07	1.385E-07	1.277E-07	1.202E-07	9.559E-08	7.837E-08
N	3.368E-08	6.821E-08	7.428E-08	6.379E-08	5.350E-08	4.601E-08	3.922E-08	3.292E-08	2.803E-08	2.420E-08	2.117E-08
NNE	2.018E-10	1.441E-08	3.180E-08	3.739E-08	3.723E-08	3.165E-08	2.613E-08	2.169E-08	1.826E-08	1.563E-08	1.357E-08
NE	2.091E-16	2.184E-10	3.706E-09	7.603E-09	1.095E-08	1.093E-08	9.921E-09	8.766E-09	7.714E-09	6.813E-09	6.060E-09
ENE	4.635E-16	4.096E-10	6.882E-09	1.372E-08	1.822E-08	1.707E-08	1.486E-08	1.277E-08	1.104E-08	9.632E-09	8.499E-09
E	6.398E-11	3.505E-09	1.142E-08	1.753E-08	2.116E-08	1.923E-08	1.636E-08	1.378E-08	1.167E-08	1.000E-08	8.670E-09
ESE	3.425E-11	3.247E-09	1.782E-08	3.018E-08	3.650E-08	3.268E-08	2.753E-08	2.305E-08	1.946E-08	1.665E-08	1.443E-08
SE	1.512E-10	9.939E-09	2.944E-08	4.082E-08	4.457E-08	3.880E-08	3.227E-08	2.682E-08	2.255E-08	1.922E-08	1.660E-08
SSE	3.118E-09	3.344E-08	6.206E-08	6.927E-08	6.735E-08	5.702E-08	4.693E-08	3.881E-08	3.253E-08	2.769E-08	2.391E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.634E-08	2.277E-08	1.463E-08	8.267E-09	5.656E-09	4.199E-09	3.256E-09	2.629E-09	2.193E-09	1.869E-09	1.616E-09
SSW	2.490E-08	1.725E-08	1.109E-08	6.295E-09	4.326E-09	3.199E-09	2.490E-09	2.016E-09	1.681E-09	1.432E-09	1.242E-09
SW	3.376E-08	2.300E-08	1.492E-08	8.540E-09	5.976E-09	4.511E-09	3.580E-09	2.899E-09	2.417E-09	2.059E-09	1.786E-09
WSW	3.527E-08	2.403E-08	1.726E-08	1.074E-08	7.274E-09	5.386E-09	4.219E-09	3.435E-09	2.877E-09	2.462E-09	2.142E-09
W	5.165E-08	2.883E-08	2.096E-08	1.381E-08	1.024E-08	7.610E-09	5.952E-09	4.841E-09	4.050E-09	3.463E-09	3.011E-09
WNW	6.892E-08	3.817E-08	2.567E-08	1.532E-08	1.043E-08	7.740E-09	6.084E-09	4.953E-09	4.136E-09	3.523E-09	3.053E-09
NW	7.812E-08	4.218E-08	2.814E-08	1.659E-08	1.110E-08	8.139E-09	6.406E-09	5.200E-09	4.328E-09	3.682E-09	3.188E-09
NNW	6.766E-08	4.017E-08	2.640E-08	1.543E-08	1.058E-08	7.913E-09	6.325E-09	5.234E-09	4.496E-09	3.886E-09	3.391E-09
N	1.880E-08	1.206E-08	1.016E-08	8.576E-09	7.669E-09	6.542E-09	5.176E-09	4.230E-09	3.550E-09	3.043E-09	2.652E-09
NNE	1.470E-08	2.588E-08	1.695E-08	9.864E-09	6.753E-09	5.044E-09	3.980E-09	3.261E-09	2.746E-09	2.360E-09	2.063E-09
NE	6.866E-09	1.188E-08	7.793E-09	4.547E-09	3.115E-09	2.328E-09	1.864E-09	1.541E-09	1.307E-09	1.123E-09	9.806E-10
ENE	9.277E-09	1.333E-08	8.789E-09	5.141E-09	3.519E-09	2.626E-09	2.147E-09	1.794E-09	1.504E-09	1.288E-09	1.121E-09
E	8.811E-09	8.992E-09	5.834E-09	3.341E-09	2.255E-09	1.666E-09	1.301E-09	1.057E-09	9.081E-10	7.907E-10	6.860E-10
ESE	1.451E-08	1.441E-08	9.426E-09	5.444E-09	3.692E-09	2.734E-09	2.140E-09	1.741E-09	1.457E-09	1.245E-09	1.082E-09
SE	1.452E-08	8.764E-09	6.618E-09	4.550E-09	3.259E-09	2.518E-09	2.043E-09	1.714E-09	1.431E-09	1.220E-09	1.059E-09
SSE	2.499E-08	2.857E-08	1.834E-08	1.038E-08	6.975E-09	5.135E-09	4.003E-09	3.247E-09	2.710E-09	2.312E-09	2.006E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	9.102E-08	7.356E-08	4.948E-08	3.744E-08	3.846E-08	2.217E-08	8.520E-09	4.210E-09	2.642E-09	1.871E-09
SSW	8.960E-08	5.207E-08	3.419E-08	3.259E-08	2.720E-08	1.622E-08	6.487E-09	3.216E-09	2.024E-09	1.435E-09
SW	1.184E-07	1.623E-07	9.651E-08	5.641E-08	3.845E-08	2.180E-08	8.817E-09	4.529E-09	2.910E-09	2.064E-09
WSW	8.469E-08	1.636E-07	9.964E-08	5.847E-08	4.016E-08	2.352E-08	1.065E-08	5.423E-09	3.447E-09	2.467E-09
W	2.539E-07	2.833E-07	1.554E-07	9.073E-08	6.103E-08	3.040E-08	1.381E-08	7.647E-09	4.857E-09	3.469E-09
WNW	2.364E-07	3.671E-07	2.086E-07	1.241E-07	8.206E-08	3.945E-08	1.545E-08	7.794E-09	4.965E-09	3.530E-09
NW	2.719E-07	4.911E-07	2.657E-07	1.460E-07	9.380E-08	4.393E-08	1.672E-08	8.234E-09	5.212E-09	3.690E-09
NNW	8.754E-08	1.390E-07	1.366E-07	1.130E-07	7.951E-08	4.016E-08	1.572E-08	7.990E-09	5.264E-09	3.883E-09
N	6.827E-08	5.246E-08	3.851E-08	2.797E-08	2.119E-08	1.271E-08	8.525E-09	6.296E-09	4.241E-09	3.048E-09
NNE	3.042E-08	3.479E-08	2.582E-08	1.824E-08	1.460E-08	1.943E-08	1.006E-08	5.074E-09	3.270E-09	2.364E-09
NE	4.663E-09	1.020E-08	9.729E-09	7.671E-09	6.582E-09	8.949E-09	4.632E-09	2.352E-09	1.544E-09	1.125E-09
ENE	8.481E-09	1.671E-08	1.461E-08	1.100E-08	9.123E-09	1.041E-08	5.231E-09	2.672E-09	1.784E-09	1.290E-09
E	1.238E-08	1.950E-08	1.609E-08	1.164E-08	9.116E-09	7.548E-09	3.412E-09	1.677E-09	1.070E-09	7.867E-10
ESE	2.007E-08	3.340E-08	2.711E-08	1.941E-08	1.512E-08	1.222E-08	5.550E-09	2.752E-09	1.747E-09	1.247E-09
SE	3.017E-08	4.117E-08	3.183E-08	2.250E-08	1.661E-08	9.090E-09	4.436E-09	2.526E-09	1.700E-09	1.223E-09
SSE	5.891E-08	6.319E-08	4.637E-08	3.248E-08	2.543E-08	2.323E-08	1.064E-08	5.173E-09	3.258E-09	2.317E-09

ERP ELEVATED STACK RELEASES - APR-JUN 2025
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	6.191E-08	7.936E-08	9.839E-08	9.108E-08	7.688E-08	6.190E-08	4.971E-08	4.051E-08	3.363E-08	3.789E-08	4.077E-08
SSW	1.464E-08	9.327E-08	1.031E-07	7.723E-08	5.196E-08	3.918E-08	3.102E-08	3.304E-08	3.432E-08	3.009E-08	2.670E-08
SW	6.882E-09	5.486E-08	1.126E-07	1.540E-07	2.036E-07	1.343E-07	9.509E-08	7.119E-08	5.561E-08	4.489E-08	3.720E-08
WSW	1.396E-10	1.387E-08	6.738E-08	1.327E-07	2.152E-07	1.390E-07	9.796E-08	7.347E-08	5.763E-08	4.676E-08	3.895E-08
W	1.701E-09	8.464E-08	2.613E-07	3.321E-07	3.364E-07	2.172E-07	1.527E-07	1.143E-07	8.940E-08	7.236E-08	6.014E-08
WNW	4.574E-09	5.179E-08	2.036E-07	3.522E-07	4.708E-07	2.933E-07	2.012E-07	1.547E-07	1.236E-07	9.814E-08	8.025E-08
NW	9.215E-09	5.558E-08	2.007E-07	4.325E-07	6.624E-07	3.887E-07	2.571E-07	1.877E-07	1.443E-07	1.135E-07	9.209E-08
NNW	2.554E-08	5.468E-08	8.303E-08	1.072E-07	1.485E-07	1.472E-07	1.380E-07	1.272E-07	1.196E-07	9.499E-08	7.782E-08
N	3.368E-08	6.820E-08	7.424E-08	6.374E-08	5.342E-08	4.591E-08	3.911E-08	3.281E-08	2.791E-08	2.409E-08	2.106E-08
NNE	2.018E-10	1.440E-08	3.176E-08	3.733E-08	3.714E-08	3.154E-08	2.601E-08	2.157E-08	1.815E-08	1.551E-08	1.346E-08
NE	2.091E-16	2.183E-10	3.702E-09	7.592E-09	1.093E-08	1.090E-08	9.881E-09	8.724E-09	7.670E-09	6.769E-09	6.016E-09
ENE	4.634E-16	4.093E-10	6.874E-09	1.369E-08	1.817E-08	1.701E-08	1.479E-08	1.271E-08	1.097E-08	9.561E-09	8.429E-09
E	6.398E-11	3.504E-09	1.141E-08	1.751E-08	2.110E-08	1.915E-08	1.628E-08	1.369E-08	1.159E-08	9.916E-09	8.589E-09
ESE	3.423E-11	3.245E-09	1.780E-08	3.014E-08	3.643E-08	3.259E-08	2.742E-08	2.294E-08	1.936E-08	1.654E-08	1.432E-08
SE	1.511E-10	9.934E-09	2.942E-08	4.077E-08	4.449E-08	3.870E-08	3.217E-08	2.672E-08	2.245E-08	1.912E-08	1.651E-08
SSE	3.118E-09	3.342E-08	6.200E-08	6.917E-08	6.717E-08	5.681E-08	4.670E-08	3.858E-08	3.231E-08	2.746E-08	2.370E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.601E-08	2.245E-08	1.435E-08	8.035E-09	5.445E-09	4.003E-09	3.075E-09	2.460E-09	2.033E-09	1.716E-09	1.470E-09
SSW	2.464E-08	1.698E-08	1.086E-08	6.100E-09	4.150E-09	3.037E-09	2.339E-09	1.875E-09	1.548E-09	1.305E-09	1.121E-09
SW	3.339E-08	2.264E-08	1.460E-08	8.274E-09	5.731E-09	4.282E-09	3.363E-09	2.696E-09	2.225E-09	1.877E-09	1.611E-09
WSW	3.486E-08	2.361E-08	1.685E-08	1.036E-08	6.929E-09	5.069E-09	3.924E-09	3.156E-09	2.612E-09	2.209E-09	1.899E-09
W	5.104E-08	2.831E-08	2.044E-08	1.328E-08	9.689E-09	7.104E-09	5.480E-09	4.395E-09	3.627E-09	3.059E-09	2.623E-09
WNW	6.790E-08	3.730E-08	2.488E-08	1.461E-08	9.778E-09	7.138E-09	5.519E-09	4.419E-09	3.630E-09	3.041E-09	2.593E-09
NW	7.735E-08	4.155E-08	2.756E-08	1.608E-08	1.064E-08	7.723E-09	6.013E-09	4.829E-09	3.978E-09	3.349E-09	2.870E-09
NNW	6.713E-08	3.967E-08	2.596E-08	1.504E-08	1.023E-08	7.578E-09	6.003E-09	4.922E-09	4.189E-09	3.588E-09	3.103E-09
N	1.869E-08	1.195E-08	1.004E-08	8.417E-09	7.480E-09	6.341E-09	4.986E-09	4.050E-09	3.377E-09	2.877E-09	2.493E-09
NNE	1.457E-08	2.547E-08	1.658E-08	9.548E-09	6.465E-09	4.776E-09	3.728E-09	3.021E-09	2.516E-09	2.140E-09	1.850E-09
NE	6.811E-09	1.174E-08	7.670E-09	4.440E-09	3.018E-09	2.238E-09	1.777E-09	1.458E-09	1.227E-09	1.046E-09	9.058E-10
ENE	9.190E-09	1.315E-08	8.632E-09	5.004E-09	3.395E-09	2.511E-09	2.035E-09	1.686E-09	1.401E-09	1.189E-09	1.027E-09
E	8.720E-09	8.863E-09	5.724E-09	3.248E-09	2.173E-09	1.590E-09	1.232E-09	9.919E-10	8.447E-10	7.292E-10	6.272E-10
ESE	1.440E-08	1.423E-08	9.267E-09	5.306E-09	3.568E-09	2.620E-09	2.033E-09	1.640E-09	1.360E-09	1.153E-09	9.937E-10
SE	1.443E-08	8.677E-09	6.530E-09	4.458E-09	3.170E-09	2.432E-09	1.959E-09	1.631E-09	1.351E-09	1.145E-09	9.859E-10
SSE	2.474E-08	2.817E-08	1.800E-08	1.010E-08	6.725E-09	4.906E-09	3.792E-09	3.049E-09	2.523E-09	2.134E-09	1.836E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	9.091E-08	7.338E-08	4.928E-08	3.722E-08	3.815E-08	2.187E-08	8.288E-09	4.016E-09	2.473E-09	1.719E-09
SSW	8.943E-08	5.190E-08	3.400E-08	3.234E-08	2.694E-08	1.596E-08	6.292E-09	3.055E-09	1.883E-09	1.309E-09
SW	1.182E-07	1.618E-07	9.598E-08	5.598E-08	3.807E-08	2.146E-08	8.550E-09	4.301E-09	2.707E-09	1.882E-09
WSW	8.452E-08	1.630E-07	9.910E-08	5.801E-08	3.975E-08	2.311E-08	1.028E-08	5.107E-09	3.168E-09	2.214E-09
W	2.535E-07	2.824E-07	1.545E-07	9.001E-08	6.039E-08	2.986E-08	1.327E-08	7.144E-09	4.413E-09	3.066E-09
WNW	2.359E-07	3.656E-07	2.072E-07	1.228E-07	8.098E-08	3.858E-08	1.474E-08	7.195E-09	4.433E-09	3.050E-09
NW	2.715E-07	4.896E-07	2.644E-07	1.450E-07	9.297E-08	4.329E-08	1.622E-08	7.817E-09	4.843E-09	3.358E-09
NNW	8.746E-08	1.387E-07	1.361E-07	1.124E-07	7.895E-08	3.968E-08	1.533E-08	7.654E-09	4.952E-09	3.586E-09
N	6.823E-08	5.238E-08	3.840E-08	2.786E-08	2.108E-08	1.260E-08	8.361E-09	6.103E-09	4.061E-09	2.883E-09
NNE	3.038E-08	3.470E-08	2.571E-08	1.812E-08	1.448E-08	1.910E-08	9.741E-09	4.807E-09	3.031E-09	2.144E-09
NE	4.657E-09	1.017E-08	9.690E-09	7.628E-09	6.533E-09	8.835E-09	4.526E-09	2.261E-09	1.461E-09	1.048E-09
ENE	8.469E-09	1.666E-08	1.455E-08	1.093E-08	9.046E-09	1.026E-08	5.095E-09	2.557E-09	1.677E-09	1.192E-09
E	1.236E-08	1.944E-08	1.601E-08	1.155E-08	9.031E-09	7.436E-09	3.320E-09	1.602E-09	1.004E-09	7.256E-10
ESE	2.005E-08	3.332E-08	2.701E-08	1.931E-08	1.501E-08	1.206E-08	5.414E-09	2.638E-09	1.646E-09	1.155E-09
SE	3.014E-08	4.109E-08	3.173E-08	2.240E-08	1.651E-08	9.000E-09	4.346E-09	2.439E-09	1.618E-09	1.147E-09
SSE	5.884E-08	6.301E-08	4.615E-08	3.225E-08	2.520E-08	2.289E-08	1.035E-08	4.946E-09	3.061E-09	2.139E-09

ERP ELEVATED STACK RELEASES - APR-JUN 2025
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	6.193E-08	7.870E-08	9.660E-08	8.941E-08	7.533E-08	6.037E-08	4.822E-08	3.908E-08	3.229E-08	3.642E-08	3.927E-08
SSW	1.464E-08	9.252E-08	1.010E-07	7.525E-08	5.048E-08	3.799E-08	3.001E-08	3.207E-08	3.341E-08	2.927E-08	2.596E-08
SW	6.885E-09	5.441E-08	1.108E-07	1.523E-07	2.010E-07	1.317E-07	9.273E-08	6.910E-08	5.377E-08	4.325E-08	3.573E-08
WSW	1.396E-10	1.376E-08	6.676E-08	1.319E-07	2.129E-07	1.366E-07	9.591E-08	7.169E-08	5.609E-08	4.542E-08	3.777E-08
W	1.702E-09	8.370E-08	2.590E-07	3.284E-07	3.317E-07	2.133E-07	1.497E-07	1.117E-07	8.730E-08	7.058E-08	5.861E-08
WNW	4.576E-09	5.144E-08	2.025E-07	3.496E-07	4.652E-07	2.880E-07	1.967E-07	1.509E-07	1.203E-07	9.516E-08	7.751E-08
NW	9.218E-09	5.514E-08	1.992E-07	4.301E-07	6.538E-07	3.800E-07	2.496E-07	1.813E-07	1.388E-07	1.086E-07	8.766E-08
NNW	2.554E-08	5.421E-08	8.177E-08	1.061E-07	1.469E-07	1.453E-07	1.361E-07	1.254E-07	1.181E-07	9.352E-08	7.632E-08
N	3.368E-08	6.760E-08	7.282E-08	6.249E-08	5.236E-08	4.492E-08	3.817E-08	3.193E-08	2.710E-08	2.334E-08	2.036E-08
NNE	2.018E-10	1.428E-08	3.130E-08	3.687E-08	3.658E-08	3.089E-08	2.532E-08	2.088E-08	1.749E-08	1.488E-08	1.286E-08
NE	2.091E-16	2.184E-10	3.705E-09	7.600E-09	1.087E-08	1.078E-08	9.736E-09	8.569E-09	7.515E-09	6.618E-09	5.872E-09
ENE	4.635E-16	4.095E-10	6.879E-09	1.371E-08	1.805E-08	1.678E-08	1.451E-08	1.240E-08	1.066E-08	9.264E-09	8.143E-09
E	6.398E-11	3.477E-09	1.132E-08	1.742E-08	2.090E-08	1.885E-08	1.592E-08	1.331E-08	1.121E-08	9.544E-09	8.231E-09
ESE	3.424E-11	3.225E-09	1.773E-08	3.009E-08	3.611E-08	3.207E-08	2.681E-08	2.229E-08	1.871E-08	1.591E-08	1.372E-08
SE	1.511E-10	9.858E-09	2.914E-08	4.050E-08	4.399E-08	3.801E-08	3.139E-08	2.592E-08	2.166E-08	1.836E-08	1.578E-08
SSE	3.118E-09	3.315E-08	6.107E-08	6.826E-08	6.613E-08	5.562E-08	4.546E-08	3.733E-08	3.110E-08	2.631E-08	2.260E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.462E-08	2.124E-08	1.321E-08	7.000E-09	4.467E-09	3.132E-09	2.325E-09	1.804E-09	1.454E-09	1.202E-09	1.010E-09
SSW	2.396E-08	1.632E-08	1.015E-08	5.369E-09	3.433E-09	2.432E-09	1.823E-09	1.427E-09	1.153E-09	9.546E-10	8.054E-10
SW	3.205E-08	2.150E-08	1.349E-08	7.228E-09	4.701E-09	3.338E-09	2.548E-09	1.993E-09	1.609E-09	1.331E-09	1.122E-09
WSW	3.382E-08	2.259E-08	1.572E-08	9.243E-09	5.973E-09	4.250E-09	3.214E-09	2.533E-09	2.059E-09	1.714E-09	1.453E-09
W	4.971E-08	2.751E-08	1.977E-08	1.223E-08	8.475E-09	6.054E-09	4.568E-09	3.596E-09	2.920E-09	2.427E-09	2.056E-09
WNW	6.531E-08	3.501E-08	2.276E-08	1.265E-08	7.943E-09	5.511E-09	4.130E-09	3.238E-09	2.611E-09	2.152E-09	1.808E-09
NW	7.324E-08	3.830E-08	2.473E-08	1.370E-08	8.650E-09	6.041E-09	4.570E-09	3.585E-09	2.891E-09	2.388E-09	2.011E-09
NNW	6.556E-08	3.773E-08	2.393E-08	1.298E-08	8.162E-09	5.671E-09	4.258E-09	3.353E-09	2.777E-09	2.325E-09	1.969E-09
N	1.804E-08	1.147E-08	9.662E-09	8.179E-09	7.143E-09	5.806E-09	4.456E-09	3.543E-09	2.899E-09	2.428E-09	2.071E-09
NNE	1.395E-08	2.484E-08	1.571E-08	8.589E-09	5.533E-09	3.925E-09	2.960E-09	2.328E-09	1.888E-09	1.568E-09	1.327E-09
NE	6.663E-09	1.152E-08	7.299E-09	3.997E-09	2.572E-09	1.825E-09	1.403E-09	1.124E-09	9.256E-10	7.737E-10	6.585E-10
ENE	8.899E-09	1.285E-08	8.190E-09	4.465E-09	2.819E-09	1.965E-09	1.513E-09	1.207E-09	9.790E-10	8.129E-10	6.877E-10
E	8.347E-09	8.486E-09	5.331E-09	2.862E-09	1.800E-09	1.251E-09	9.264E-10	7.171E-10	5.886E-10	4.922E-10	4.135E-10
ESE	1.377E-08	1.365E-08	8.648E-09	4.685E-09	2.959E-09	2.063E-09	1.531E-09	1.187E-09	9.497E-10	7.789E-10	6.514E-10
SE	1.374E-08	8.148E-09	6.094E-09	4.144E-09	2.937E-09	2.253E-09	1.818E-09	1.513E-09	1.234E-09	1.030E-09	8.751E-10
SSE	2.360E-08	2.699E-08	1.674E-08	8.930E-09	5.676E-09	3.987E-09	2.983E-09	2.331E-09	1.880E-09	1.554E-09	1.309E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	8.942E-08	7.181E-08	4.780E-08	3.580E-08	3.670E-08	2.064E-08	7.253E-09	3.165E-09	1.819E-09	1.205E-09
SSW	8.767E-08	5.043E-08	3.296E-08	3.145E-08	2.620E-08	1.528E-08	5.570E-09	2.455E-09	1.436E-09	9.582E-10
SW	1.167E-07	1.594E-07	9.367E-08	5.414E-08	3.660E-08	2.028E-08	7.496E-09	3.385E-09	2.005E-09	1.336E-09
WSW	8.394E-08	1.610E-07	9.708E-08	5.648E-08	3.857E-08	2.203E-08	9.229E-09	4.295E-09	2.547E-09	1.720E-09
W	2.509E-07	2.783E-07	1.515E-07	8.791E-08	5.886E-08	2.900E-08	1.224E-08	6.105E-09	3.616E-09	2.436E-09
WNW	2.343E-07	3.608E-07	2.027E-07	1.195E-07	7.822E-08	3.630E-08	1.281E-08	5.607E-09	3.254E-09	2.161E-09
NW	2.698E-07	4.824E-07	2.571E-07	1.394E-07	8.852E-08	4.003E-08	1.391E-08	6.148E-09	3.602E-09	2.398E-09
NNW	8.644E-08	1.371E-07	1.343E-07	1.108E-07	7.743E-08	3.778E-08	1.327E-08	5.770E-09	3.392E-09	2.327E-09
N	6.707E-08	5.130E-08	3.747E-08	2.705E-08	2.038E-08	1.213E-08	8.048E-09	5.622E-09	3.559E-09	2.435E-09
NNE	2.999E-08	3.412E-08	2.503E-08	1.746E-08	1.386E-08	1.836E-08	8.813E-09	3.968E-09	2.341E-09	1.574E-09
NE	4.661E-09	1.010E-08	9.548E-09	7.474E-09	6.386E-09	8.565E-09	4.098E-09	1.855E-09	1.128E-09	7.760E-10
ENE	8.477E-09	1.652E-08	1.427E-08	1.063E-08	8.755E-09	9.901E-09	4.562E-09	2.012E-09	1.208E-09	8.158E-10
E	1.229E-08	1.922E-08	1.566E-08	1.117E-08	8.663E-09	7.053E-09	2.939E-09	1.267E-09	7.279E-10	4.916E-10
ESE	2.000E-08	3.298E-08	2.641E-08	1.867E-08	1.439E-08	1.145E-08	4.799E-09	2.089E-09	1.195E-09	7.823E-10
SE	2.990E-08	4.055E-08	3.097E-08	2.162E-08	1.579E-08	8.478E-09	4.041E-09	2.262E-09	1.494E-09	1.033E-09
SSE	5.806E-08	6.194E-08	4.492E-08	3.106E-08	2.407E-08	2.168E-08	9.219E-09	4.036E-09	2.345E-09	1.560E-09

ERP ELEVATED STACK RELEASES - APR-JUN 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	7.828E-09	6.247E-09	5.132E-09	3.442E-09	1.640E-09	9.967E-10	6.705E-10	4.803E-10	3.592E-10	2.888E-10	2.589E-10
SSW	5.183E-09	3.956E-09	2.976E-09	1.833E-09	8.050E-10	4.712E-10	3.105E-10	2.199E-10	1.938E-10	1.465E-10	1.148E-10
SW	3.667E-09	3.003E-09	2.582E-09	1.800E-09	1.436E-09	7.775E-10	4.818E-10	3.274E-10	2.369E-10	1.793E-10	1.405E-10
WSW	1.350E-09	1.317E-09	1.442E-09	2.273E-09	1.198E-09	6.477E-10	3.998E-10	2.708E-10	1.955E-10	1.477E-10	1.156E-10
W	1.875E-09	5.827E-09	4.844E-09	3.070E-09	1.432E-09	7.685E-10	4.728E-10	3.200E-10	2.313E-10	1.755E-10	1.382E-10
WNW	1.899E-09	1.891E-09	4.362E-09	3.718E-09	2.163E-09	1.111E-09	6.661E-10	4.455E-10	3.452E-10	2.660E-10	2.163E-10
NW	3.268E-09	3.319E-09	3.799E-09	7.018E-09	4.512E-09	2.248E-09	1.326E-09	8.751E-10	6.271E-10	4.790E-10	3.858E-10
NNW	6.261E-09	4.993E-09	4.096E-09	2.743E-09	2.124E-09	1.139E-09	7.034E-10	5.744E-10	4.278E-10	3.431E-10	2.914E-10
N	1.089E-08	8.311E-09	6.258E-09	3.858E-09	1.696E-09	9.931E-10	6.546E-10	4.638E-10	3.449E-10	2.657E-10	2.103E-10
NNE	1.855E-09	1.629E-09	1.562E-09	1.180E-09	6.183E-10	3.906E-10	2.681E-10	1.941E-10	1.459E-10	1.129E-10	8.942E-11
NE	1.854E-11	1.112E-10	2.368E-10	2.453E-10	1.532E-10	1.027E-10	7.258E-11	5.331E-11	4.038E-11	3.134E-11	2.482E-11
ENE	3.841E-11	2.304E-10	4.906E-10	5.082E-10	3.174E-10	2.128E-10	1.503E-10	1.104E-10	8.364E-11	6.492E-11	5.141E-11
E	8.129E-10	8.059E-10	8.989E-10	7.437E-10	4.135E-10	2.670E-10	1.852E-10	1.349E-10	1.017E-10	7.878E-11	6.238E-11
ESE	3.429E-10	7.003E-10	1.219E-09	1.200E-09	7.326E-10	4.878E-10	3.434E-10	2.519E-10	1.906E-10	1.479E-10	1.171E-10
SE	1.392E-09	1.563E-09	1.966E-09	1.724E-09	9.921E-10	6.480E-10	4.522E-10	3.301E-10	2.493E-10	1.932E-10	1.530E-10
SSE	3.988E-09	3.569E-09	3.513E-09	2.702E-09	1.433E-09	9.093E-10	6.255E-10	4.534E-10	3.411E-10	2.641E-10	2.091E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	2.084E-10	1.386E-10	9.368E-11	5.410E-11	3.457E-11	2.478E-11	1.777E-11	1.336E-11	1.040E-11	8.297E-12	6.773E-12
SSW	9.296E-11	7.698E-11	5.494E-11	3.327E-11	2.000E-11	1.377E-11	9.890E-12	7.441E-12	5.781E-12	4.618E-12	3.770E-12
SW	1.147E-10	9.469E-11	6.726E-11	4.040E-11	2.593E-11	1.669E-11	1.220E-11	9.160E-12	7.122E-12	5.689E-12	4.644E-12
WSW	9.295E-11	8.264E-11	5.947E-11	3.632E-11	2.200E-11	1.477E-11	1.070E-11	8.032E-12	6.245E-12	4.988E-12	4.072E-12
W	1.121E-10	5.252E-11	8.284E-11	5.375E-11	3.116E-11	2.105E-11	1.509E-11	1.133E-11	8.808E-12	7.036E-12	5.743E-12
WNW	1.860E-10	1.084E-10	7.603E-11	4.511E-11	2.935E-11	2.015E-11	1.372E-11	1.031E-11	8.186E-12	6.539E-12	5.337E-12
NW	3.261E-10	1.832E-10	1.262E-10	7.797E-11	4.757E-11	3.193E-11	2.357E-11	1.770E-11	1.391E-11	1.111E-11	9.067E-12
NNW	2.593E-10	1.711E-10	1.272E-10	7.916E-11	5.110E-11	3.414E-11	2.326E-11	1.658E-11	1.266E-11	1.011E-11	8.252E-12
N	1.701E-10	8.150E-11	5.033E-11	2.729E-11	6.569E-11	3.860E-11	2.760E-11	2.073E-11	1.611E-11	1.287E-11	1.051E-11
NNE	7.214E-11	1.126E-10	7.001E-11	3.655E-11	2.236E-11	1.497E-11	1.070E-11	8.005E-12	6.207E-12	4.949E-12	4.033E-12
NE	1.999E-11	5.009E-11	3.213E-11	1.732E-11	1.068E-11	7.129E-12	4.823E-12	3.621E-12	2.816E-12	2.249E-12	1.836E-12
ENE	4.141E-11	5.283E-11	3.903E-11	2.406E-11	1.537E-11	1.017E-11	7.131E-12	4.864E-12	3.784E-12	3.025E-12	2.471E-12
E	5.029E-11	4.522E-11	3.130E-11	1.835E-11	1.164E-11	7.776E-12	5.518E-12	4.094E-12	3.154E-12	2.665E-12	2.174E-12
ESE	9.434E-11	8.515E-11	5.874E-11	3.427E-11	2.164E-11	1.439E-11	1.016E-11	7.510E-12	5.767E-12	4.564E-12	3.698E-12
SE	1.233E-10	5.850E-11	3.573E-11	1.888E-11	1.157E-11	7.980E-12	5.971E-12	1.041E-11	8.019E-12	6.373E-12	5.188E-12
SSE	1.687E-10	1.837E-10	1.133E-10	5.857E-11	3.573E-11	2.395E-11	1.713E-11	1.284E-11	9.970E-12	7.956E-12	6.489E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	4.629E-09	1.754E-09	6.814E-10	3.670E-10	2.490E-10	1.342E-10	5.421E-11	2.459E-11	1.349E-11	8.357E-12
SSW	2.686E-09	8.851E-10	3.171E-10	1.833E-10	1.161E-10	7.074E-11	3.219E-11	1.388E-11	7.509E-12	4.649E-12
SW	2.328E-09	1.224E-09	4.989E-10	2.408E-10	1.425E-10	8.695E-11	3.994E-11	1.736E-11	9.252E-12	5.726E-12
WSW	1.783E-09	1.192E-09	4.143E-10	1.988E-10	1.167E-10	7.463E-11	3.510E-11	1.507E-11	8.112E-12	5.021E-12
W	4.274E-09	1.501E-09	4.905E-10	2.354E-10	1.396E-10	7.923E-11	5.018E-11	2.136E-11	1.144E-11	7.082E-12
WNW	3.527E-09	2.041E-09	6.966E-10	3.437E-10	2.198E-10	1.113E-10	4.498E-11	2.003E-11	1.048E-11	6.582E-12
NW	5.123E-09	4.063E-09	1.391E-09	6.416E-10	3.913E-10	1.896E-10	7.518E-11	3.276E-11	1.793E-11	1.118E-11
NNW	3.694E-09	1.824E-09	7.680E-10	4.374E-10	2.948E-10	1.712E-10	7.737E-11	3.431E-11	1.699E-11	1.018E-11
N	5.648E-09	1.864E-09	6.685E-10	3.487E-10	2.118E-10	8.734E-11	4.948E-11	4.142E-11	2.093E-11	1.296E-11
NNE	1.407E-09	6.420E-10	2.711E-10	1.471E-10	8.998E-11	8.467E-11	3.768E-11	1.523E-11	8.089E-12	4.983E-12
NE	2.127E-10	1.513E-10	7.292E-11	4.063E-11	2.496E-11	3.542E-11	1.766E-11	7.155E-12	3.658E-12	2.264E-12
ENE	4.406E-10	3.133E-10	1.510E-10	8.417E-11	5.171E-11	4.416E-11	2.353E-11	1.034E-11	5.100E-12	3.045E-12
E	8.093E-10	4.218E-10	1.869E-10	1.024E-10	6.276E-11	4.016E-11	1.825E-11	7.905E-12	4.143E-12	2.628E-12
ESE	1.095E-09	7.276E-10	3.453E-10	1.918E-10	1.178E-10	7.546E-11	3.409E-11	1.463E-11	7.604E-12	4.600E-12
SE	1.769E-09	1.002E-09	4.556E-10	2.510E-10	1.539E-10	6.279E-11	1.937E-11	8.133E-12	8.229E-12	6.422E-12
SSE	3.165E-09	1.482E-09	6.324E-10	3.439E-10	2.104E-10	1.491E-10	6.058E-11	2.437E-11	1.297E-11	8.009E-12

ERP ELEVATED STACK RELEASES - APR-JUN 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.26 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.0 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	9.7E-08	9.6E-08	9.5E-08	4.7E-09
A	Site Boundary	SSW	.82	9.4E-08	9.4E-08	9.2E-08	2.6E-09
A	Site Boundary	SW	.97	1.5E-07	1.5E-07	1.5E-07	1.9E-09
A	Site Boundary	WSW	.93	1.1E-07	1.1E-07	1.1E-07	2.0E-09
A	Site Boundary	W	.91	3.2E-07	3.2E-07	3.1E-07	3.5E-09
A	Site Boundary	WNW	.94	3.2E-07	3.2E-07	3.2E-07	4.2E-09
A	Site Boundary	NW	.81	2.6E-07	2.6E-07	2.6E-07	3.7E-09
A	Site Boundary	NNW	.69	7.3E-08	7.3E-08	7.2E-08	4.3E-09
A	Site Boundary	N	.67	7.2E-08	7.2E-08	7.1E-08	6.7E-09
A	Site Boundary	NNE	.60	2.1E-08	2.1E-08	2.1E-08	1.6E-09
A	Site Boundary	NE	.62	1.4E-09	1.4E-09	1.4E-09	1.7E-10
A	Site Boundary	ENE	.59	1.7E-09	1.7E-09	1.7E-09	3.2E-10
A	Site Boundary	E	.53	4.0E-09	4.0E-09	4.0E-09	8.1E-10
A	Site Boundary	ESE	.54	4.5E-09	4.5E-09	4.4E-09	7.7E-10
A	Site Boundary	SE	.65	2.0E-08	2.0E-08	2.0E-08	1.8E-09
A	Site Boundary	SSE	.81	6.5E-08	6.5E-08	6.4E-08	3.3E-09
A	Nearest Res	SW	1.30	1.9E-07	1.9E-07	1.9E-07	1.9E-09
A	Nearest Res	WSW	1.90	1.5E-07	1.5E-07	1.5E-07	7.2E-10
A	Nearest Res	WNW	2.50	2.0E-07	2.0E-07	2.0E-07	6.7E-10
A	Nearest Res	NW	1.20	5.7E-07	5.7E-07	5.7E-07	5.1E-09
A	Nearest Res	NNW	2.00	1.5E-07	1.5E-07	1.5E-07	1.1E-09
A	Nearest Res	NE	1.70	1.1E-08	1.1E-08	1.1E-08	1.3E-10
A	Nearest Res	E	1.90	2.0E-08	2.0E-08	1.9E-08	2.9E-10
A	Nearest Cow	NNW	3.50	1.2E-07	1.2E-07	1.2E-07	4.3E-10
A	Nearest Garde	SW	2.20	1.2E-07	1.2E-07	1.1E-07	6.3E-10
A	Nearest Garde	WSW	2.50	9.9E-08	9.8E-08	9.6E-08	4.0E-10
A	Nearest Garde	WNW	2.70	1.8E-07	1.8E-07	1.8E-07	5.6E-10
A	Nearest Garde	NNW	2.70	1.3E-07	1.3E-07	1.3E-07	6.8E-10
A	Nearest Garde	ENE	1.70	1.8E-08	1.8E-08	1.8E-08	2.7E-10
A	Nearest Garde	E	1.90	2.0E-08	2.0E-08	1.9E-08	2.9E-10
A	Nearest Garde	ESE	2.20	3.1E-08	3.0E-08	3.0E-08	4.2E-10
A	Nearest Garde	SE	1.90	4.0E-08	4.0E-08	3.9E-08	7.0E-10
A	MAXIMUM CHI/Q	S	.75	9.8E-08	9.8E-08	9.6E-08	5.1E-09
A	MAXIMUM CHI/Q	SSW	.75	1.0E-07	1.0E-07	1.0E-07	3.0E-09
A	MAXIMUM CHI/Q	SW	1.50	2.0E-07	2.0E-07	2.0E-07	1.4E-09
A	MAXIMUM CHI/Q	WSW	1.50	2.2E-07	2.2E-07	2.1E-07	1.2E-09
A	MAXIMUM CHI/Q	W	1.50	3.4E-07	3.4E-07	3.3E-07	1.4E-09
A	MAXIMUM CHI/Q	WNW	1.50	4.7E-07	4.7E-07	4.7E-07	2.2E-09
A	MAXIMUM CHI/Q	NW	1.50	6.6E-07	6.6E-07	6.5E-07	4.5E-09
A	MAXIMUM CHI/Q	NNW	1.50	1.5E-07	1.5E-07	1.5E-07	2.1E-09
A	MAXIMUM CHI/Q	N	.75	7.4E-08	7.4E-08	7.3E-08	6.3E-09
A	MAXIMUM CHI/Q	NNE	1.00	3.7E-08	3.7E-08	3.7E-08	1.2E-09
A	MAXIMUM CHI/Q	NE	7.50	1.2E-08	1.2E-08	1.2E-08	5.0E-11
A	MAXIMUM CHI/Q	ENE	1.50	1.8E-08	1.8E-08	1.8E-08	3.2E-10
A	MAXIMUM CHI/Q	E	1.50	2.1E-08	2.1E-08	2.1E-08	4.1E-10
A	MAXIMUM CHI/Q	ESE	1.50	3.7E-08	3.6E-08	3.6E-08	7.3E-10
A	MAXIMUM CHI/Q	SE	1.50	4.5E-08	4.4E-08	4.4E-08	9.9E-10
A	MAXIMUM CHI/Q	SSE	1.00	6.9E-08	6.9E-08	6.8E-08	2.7E-09

Atmospheric Diffusion Estimates

Elevated Releases

January-June 2025

ERP ELEVATED STACK RELEASES - JAN-JUN 2025
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.123E-08	4.561E-08	6.748E-08	7.083E-08	6.518E-08	5.366E-08	4.346E-08	3.557E-08	2.962E-08	3.367E-08	3.672E-08
SSW	1.095E-08	6.429E-08	7.815E-08	6.734E-08	5.231E-08	4.072E-08	3.220E-08	3.289E-08	3.245E-08	2.784E-08	2.425E-08
SW	3.477E-09	2.876E-08	6.977E-08	1.070E-07	1.407E-07	9.180E-08	6.456E-08	4.812E-08	3.747E-08	3.019E-08	2.498E-08
WSW	7.023E-11	7.152E-09	4.178E-08	8.811E-08	1.461E-07	9.484E-08	6.722E-08	5.066E-08	3.993E-08	3.254E-08	2.722E-08
W	8.559E-10	5.063E-08	1.816E-07	2.415E-07	2.474E-07	1.594E-07	1.119E-07	8.363E-08	6.538E-08	5.290E-08	4.396E-08
WNW	2.302E-09	2.806E-08	1.427E-07	2.637E-07	3.571E-07	2.229E-07	1.533E-07	1.185E-07	9.531E-08	7.593E-08	6.231E-08
NW	4.636E-09	2.825E-08	1.163E-07	2.653E-07	4.251E-07	2.515E-07	1.676E-07	1.234E-07	9.571E-08	7.564E-08	6.168E-08
NNW	1.285E-08	2.797E-08	5.451E-08	8.568E-08	1.307E-07	1.333E-07	1.283E-07	1.211E-07	1.160E-07	9.243E-08	7.591E-08
N	2.064E-08	4.164E-08	5.189E-08	5.228E-08	5.017E-08	4.463E-08	3.836E-08	3.226E-08	2.747E-08	2.372E-08	2.074E-08
NNE	1.309E-10	9.404E-09	2.684E-08	3.740E-08	4.208E-08	3.738E-08	3.155E-08	2.653E-08	2.252E-08	1.937E-08	1.688E-08
NE	5.222E-16	4.597E-10	7.390E-09	1.457E-08	1.952E-08	1.852E-08	1.625E-08	1.405E-08	1.217E-08	1.063E-08	9.384E-09
ENE	4.466E-16	4.194E-10	7.092E-09	1.430E-08	1.937E-08	1.834E-08	1.605E-08	1.383E-08	1.197E-08	1.045E-08	9.221E-09
E	3.218E-11	2.010E-09	1.048E-08	1.887E-08	2.453E-08	2.269E-08	1.942E-08	1.640E-08	1.392E-08	1.194E-08	1.036E-08
ESE	1.722E-11	2.082E-09	1.592E-08	2.849E-08	3.520E-08	3.173E-08	2.687E-08	2.261E-08	1.920E-08	1.651E-08	1.438E-08
SE	1.082E-10	7.660E-09	3.338E-08	5.291E-08	6.177E-08	5.484E-08	4.611E-08	3.861E-08	3.264E-08	2.795E-08	2.425E-08
SSE	1.599E-09	2.080E-08	5.540E-08	7.488E-08	8.029E-08	6.926E-08	5.729E-08	4.745E-08	3.980E-08	3.387E-08	2.925E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.260E-08	2.075E-08	1.336E-08	7.569E-09	5.188E-09	3.855E-09	2.989E-09	2.413E-09	2.014E-09	1.716E-09	1.484E-09
SSW	2.191E-08	1.427E-08	9.097E-09	5.098E-09	3.460E-09	2.539E-09	1.965E-09	1.584E-09	1.315E-09	1.117E-09	9.653E-10
SW	2.238E-08	1.553E-08	1.009E-08	5.794E-09	4.092E-09	3.110E-09	2.479E-09	2.009E-09	1.676E-09	1.429E-09	1.239E-09
WSW	2.458E-08	1.739E-08	1.272E-08	8.042E-09	5.462E-09	4.054E-09	3.183E-09	2.596E-09	2.178E-09	1.866E-09	1.626E-09
W	3.732E-08	2.075E-08	1.505E-08	9.931E-09	7.370E-09	5.475E-09	4.281E-09	3.480E-09	2.911E-09	2.488E-09	2.163E-09
WNW	5.297E-08	2.979E-08	2.028E-08	1.233E-08	8.459E-09	6.316E-09	4.994E-09	4.080E-09	3.413E-09	2.912E-09	2.528E-09
NW	5.212E-08	2.875E-08	1.950E-08	1.175E-08	7.908E-09	5.829E-09	4.623E-09	3.768E-09	3.145E-09	2.682E-09	2.328E-09
NNW	6.572E-08	3.930E-08	2.587E-08	1.515E-08	1.040E-08	7.782E-09	6.225E-09	5.153E-09	4.426E-09	3.824E-09	3.338E-09
N	1.840E-08	1.178E-08	9.962E-09	8.376E-09	7.323E-09	6.143E-09	4.846E-09	3.952E-09	3.312E-09	2.835E-09	2.468E-09
NNE	1.824E-08	2.921E-08	1.907E-08	1.105E-08	7.543E-09	5.621E-09	4.426E-09	3.620E-09	3.043E-09	2.613E-09	2.281E-09
NE	1.051E-08	1.608E-08	1.047E-08	6.050E-09	4.116E-09	3.059E-09	2.429E-09	1.996E-09	1.684E-09	1.443E-09	1.257E-09
ENE	1.005E-08	1.688E-08	1.127E-08	6.703E-09	4.642E-09	3.494E-09	2.923E-09	2.481E-09	2.088E-09	1.795E-09	1.568E-09
E	1.054E-08	1.082E-08	7.012E-09	4.009E-09	2.703E-09	1.993E-09	1.556E-09	1.263E-09	1.082E-09	9.407E-10	8.157E-10
ESE	1.478E-08	1.680E-08	1.108E-08	6.474E-09	4.424E-09	3.294E-09	2.590E-09	2.115E-09	1.775E-09	1.521E-09	1.325E-09
SE	2.129E-08	1.303E-08	1.004E-08	7.192E-09	5.284E-09	4.186E-09	3.479E-09	2.983E-09	2.504E-09	2.147E-09	1.871E-09
SSE	3.054E-08	3.353E-08	2.150E-08	1.215E-08	8.142E-09	5.983E-09	4.657E-09	3.772E-09	3.145E-09	2.680E-09	2.324E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.411E-08	6.131E-08	4.303E-08	3.287E-08	3.429E-08	2.010E-08	7.798E-09	3.864E-09	2.426E-09	1.718E-09
SSW	7.027E-08	5.050E-08	3.475E-08	3.082E-08	2.445E-08	1.367E-08	5.258E-09	2.555E-09	1.591E-09	1.120E-09
SW	7.719E-08	1.115E-07	6.525E-08	3.774E-08	2.556E-08	1.463E-08	5.993E-09	3.120E-09	2.016E-09	1.432E-09
WSW	5.468E-08	1.104E-07	6.796E-08	4.018E-08	2.782E-08	1.691E-08	7.936E-09	4.081E-09	2.605E-09	1.870E-09
W	1.791E-07	2.070E-07	1.133E-07	6.584E-08	4.415E-08	2.190E-08	9.931E-09	5.503E-09	3.492E-09	2.493E-09
WNW	1.710E-07	2.767E-07	1.579E-07	9.455E-08	6.289E-08	3.071E-08	1.238E-08	6.359E-09	4.087E-09	2.918E-09
NW	1.630E-07	3.124E-07	1.723E-07	9.599E-08	6.228E-08	2.983E-08	1.177E-08	5.901E-09	3.775E-09	2.688E-09
NNW	6.246E-08	1.219E-07	1.268E-07	1.085E-07	7.703E-08	3.920E-08	1.542E-08	7.857E-09	5.182E-09	3.822E-09
N	4.978E-08	4.818E-08	3.759E-08	2.741E-08	2.075E-08	1.244E-08	8.260E-09	5.939E-09	3.963E-09	2.840E-09
NNE	2.766E-08	3.895E-08	3.110E-08	2.247E-08	1.812E-08	2.226E-08	1.127E-08	5.655E-09	3.631E-09	2.618E-09
NE	9.039E-09	1.797E-08	1.597E-08	1.212E-08	1.017E-08	1.235E-08	6.174E-09	3.089E-09	2.001E-09	1.446E-09
ENE	8.814E-09	1.779E-08	1.577E-08	1.192E-08	9.891E-09	1.287E-08	6.801E-09	3.572E-09	2.458E-09	1.798E-09
E	1.233E-08	2.245E-08	1.908E-08	1.387E-08	1.089E-08	9.064E-09	4.096E-09	2.008E-09	1.278E-09	9.364E-10
ESE	1.843E-08	3.217E-08	2.646E-08	1.915E-08	1.516E-08	1.381E-08	6.587E-09	3.314E-09	2.121E-09	1.524E-09
SE	3.634E-08	5.672E-08	4.544E-08	3.256E-08	2.425E-08	1.354E-08	6.976E-09	4.196E-09	2.942E-09	2.150E-09
SSE	5.637E-08	7.419E-08	5.655E-08	3.973E-08	3.110E-08	2.752E-08	1.245E-08	6.028E-09	3.786E-09	2.686E-09

ERP ELEVATED STACK RELEASES - JAN-JUN 2025
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.122E-08	4.558E-08	6.741E-08	7.074E-08	6.505E-08	5.351E-08	4.331E-08	3.542E-08	2.947E-08	3.346E-08	3.643E-08
SSW	1.095E-08	6.422E-08	7.803E-08	6.722E-08	5.218E-08	4.059E-08	3.207E-08	3.273E-08	3.227E-08	2.765E-08	2.407E-08
SW	3.476E-09	2.873E-08	6.966E-08	1.067E-07	1.402E-07	9.142E-08	6.423E-08	4.782E-08	3.720E-08	2.994E-08	2.475E-08
WSW	7.021E-11	7.143E-09	4.172E-08	8.794E-08	1.456E-07	9.445E-08	6.687E-08	5.035E-08	3.964E-08	3.227E-08	2.696E-08
W	8.557E-10	5.059E-08	1.813E-07	2.410E-07	2.466E-07	1.587E-07	1.113E-07	8.304E-08	6.484E-08	5.240E-08	4.349E-08
WNW	2.300E-09	2.803E-08	1.424E-07	2.631E-07	3.557E-07	2.217E-07	1.522E-07	1.175E-07	9.439E-08	7.509E-08	6.153E-08
NW	4.634E-09	2.822E-08	1.162E-07	2.648E-07	4.239E-07	2.505E-07	1.668E-07	1.227E-07	9.508E-08	7.507E-08	6.115E-08
NNW	1.284E-08	2.796E-08	5.447E-08	8.558E-08	1.305E-07	1.329E-07	1.278E-07	1.205E-07	1.154E-07	9.186E-08	7.538E-08
N	2.064E-08	4.163E-08	5.186E-08	5.223E-08	5.008E-08	4.452E-08	3.823E-08	3.213E-08	2.734E-08	2.359E-08	2.061E-08
NNE	1.309E-10	9.398E-09	2.681E-08	3.734E-08	4.197E-08	3.725E-08	3.140E-08	2.638E-08	2.238E-08	1.923E-08	1.674E-08
NE	5.221E-16	4.594E-10	7.383E-09	1.455E-08	1.948E-08	1.847E-08	1.620E-08	1.399E-08	1.211E-08	1.057E-08	9.322E-09
ENE	4.465E-16	4.191E-10	7.084E-09	1.428E-08	1.932E-08	1.828E-08	1.598E-08	1.376E-08	1.189E-08	1.037E-08	9.145E-09
E	3.217E-11	2.009E-09	1.047E-08	1.884E-08	2.445E-08	2.258E-08	1.931E-08	1.629E-08	1.380E-08	1.182E-08	1.025E-08
ESE	1.722E-11	2.081E-09	1.590E-08	2.846E-08	3.513E-08	3.165E-08	2.678E-08	2.252E-08	1.910E-08	1.641E-08	1.429E-08
SE	1.082E-10	7.656E-09	3.336E-08	5.285E-08	6.166E-08	5.472E-08	4.597E-08	3.846E-08	3.250E-08	2.782E-08	2.411E-08
SSE	1.599E-09	2.079E-08	5.535E-08	7.479E-08	8.014E-08	6.907E-08	5.709E-08	4.725E-08	3.960E-08	3.368E-08	2.906E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.232E-08	2.045E-08	1.310E-08	7.347E-09	4.982E-09	3.663E-09	2.811E-09	2.246E-09	1.855E-09	1.564E-09	1.339E-09
SSW	2.173E-08	1.409E-08	8.943E-09	4.968E-09	3.343E-09	2.432E-09	1.866E-09	1.492E-09	1.228E-09	1.034E-09	8.861E-10
SW	2.215E-08	1.529E-08	9.889E-09	5.622E-09	3.931E-09	2.958E-09	2.335E-09	1.874E-09	1.548E-09	1.307E-09	1.123E-09
WSW	2.432E-08	1.711E-08	1.245E-08	7.785E-09	5.230E-09	3.841E-09	2.984E-09	2.408E-09	1.999E-09	1.695E-09	1.462E-09
W	3.687E-08	2.037E-08	1.468E-08	9.557E-09	6.996E-09	5.129E-09	3.958E-09	3.177E-09	2.624E-09	2.214E-09	1.900E-09
WNW	5.224E-08	2.916E-08	1.971E-08	1.181E-08	7.985E-09	5.877E-09	4.579E-09	3.688E-09	3.041E-09	2.558E-09	2.189E-09
NW	5.163E-08	2.834E-08	1.912E-08	1.141E-08	7.606E-09	5.551E-09	4.360E-09	3.518E-09	2.908E-09	2.457E-09	2.112E-09
NNW	6.521E-08	3.883E-08	2.546E-08	1.479E-08	1.007E-08	7.474E-09	5.930E-09	4.869E-09	4.148E-09	3.554E-09	3.077E-09
N	1.827E-08	1.166E-08	9.827E-09	8.211E-09	7.136E-09	5.949E-09	4.663E-09	3.780E-09	3.148E-09	2.678E-09	2.317E-09
NNE	1.807E-08	2.877E-08	1.868E-08	1.072E-08	7.241E-09	5.340E-09	4.163E-09	3.370E-09	2.805E-09	2.384E-09	2.060E-09
NE	1.043E-08	1.588E-08	1.030E-08	5.903E-09	3.983E-09	2.936E-09	2.313E-09	1.886E-09	1.578E-09	1.341E-09	1.159E-09
ENE	9.953E-09	1.667E-08	1.108E-08	6.537E-09	4.490E-09	3.353E-09	2.783E-09	2.343E-09	1.957E-09	1.668E-09	1.446E-09
E	1.041E-08	1.064E-08	6.864E-09	3.885E-09	2.593E-09	1.894E-09	1.464E-09	1.177E-09	9.997E-10	8.610E-10	7.397E-10
ESE	1.467E-08	1.662E-08	1.092E-08	6.335E-09	4.297E-09	3.177E-09	2.480E-09	2.011E-09	1.676E-09	1.426E-09	1.234E-09
SE	2.115E-08	1.291E-08	9.907E-09	7.053E-09	5.146E-09	4.049E-09	3.341E-09	2.844E-09	2.371E-09	2.019E-09	1.747E-09
SSE	3.032E-08	3.310E-08	2.113E-08	1.184E-08	7.866E-09	5.730E-09	4.422E-09	3.551E-09	2.935E-09	2.480E-09	2.132E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.404E-08	6.118E-08	4.287E-08	3.269E-08	3.403E-08	1.982E-08	7.575E-09	3.674E-09	2.259E-09	1.567E-09
SSW	7.016E-08	5.037E-08	3.461E-08	3.064E-08	2.426E-08	1.350E-08	5.129E-09	2.449E-09	1.498E-09	1.037E-09
SW	7.705E-08	1.111E-07	6.491E-08	3.747E-08	2.532E-08	1.441E-08	5.819E-09	2.968E-09	1.881E-09	1.310E-09
WSW	5.458E-08	1.101E-07	6.762E-08	3.989E-08	2.755E-08	1.664E-08	7.687E-09	3.869E-09	2.417E-09	1.698E-09
W	1.788E-07	2.063E-07	1.126E-07	6.530E-08	4.368E-08	2.151E-08	9.558E-09	5.158E-09	3.189E-09	2.219E-09
WNW	1.706E-07	2.756E-07	1.569E-07	9.364E-08	6.211E-08	3.009E-08	1.187E-08	5.920E-09	3.696E-09	2.565E-09
NW	1.627E-07	3.115E-07	1.715E-07	9.536E-08	6.175E-08	2.942E-08	1.143E-08	5.623E-09	3.526E-09	2.463E-09
NNW	6.240E-08	1.216E-07	1.263E-07	1.079E-07	7.650E-08	3.875E-08	1.506E-08	7.548E-09	4.897E-09	3.553E-09
N	4.975E-08	4.809E-08	3.747E-08	2.728E-08	2.063E-08	1.232E-08	8.092E-09	5.751E-09	3.791E-09	2.683E-09
NNE	2.762E-08	3.884E-08	3.095E-08	2.232E-08	1.797E-08	2.191E-08	1.094E-08	5.376E-09	3.381E-09	2.389E-09
NE	9.028E-09	1.793E-08	1.592E-08	1.206E-08	1.010E-08	1.219E-08	6.027E-09	2.966E-09	1.891E-09	1.344E-09
ENE	8.802E-09	1.774E-08	1.570E-08	1.185E-08	9.808E-09	1.269E-08	6.637E-09	3.428E-09	2.322E-09	1.672E-09
E	1.231E-08	2.237E-08	1.897E-08	1.376E-08	1.078E-08	8.913E-09	3.973E-09	1.909E-09	1.192E-09	8.572E-10
ESE	1.841E-08	3.210E-08	2.637E-08	1.905E-08	1.506E-08	1.366E-08	6.449E-09	3.197E-09	2.017E-09	1.429E-09
SE	3.631E-08	5.662E-08	4.530E-08	3.242E-08	2.412E-08	1.341E-08	6.840E-09	4.058E-09	2.806E-09	2.023E-09
SSE	5.631E-08	7.403E-08	5.635E-08	3.953E-08	3.089E-08	2.716E-08	1.214E-08	5.776E-09	3.565E-09	2.486E-09

ERP ELEVATED STACK RELEASES - JAN-JUN 2025
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.123E-08	4.520E-08	6.636E-08	6.974E-08	6.396E-08	5.232E-08	4.209E-08	3.422E-08	2.833E-08	3.219E-08	3.514E-08
SSW	1.095E-08	6.370E-08	7.658E-08	6.589E-08	5.103E-08	3.952E-08	3.107E-08	3.166E-08	3.118E-08	2.663E-08	2.312E-08
SW	3.477E-09	2.850E-08	6.876E-08	1.059E-07	1.384E-07	8.950E-08	6.244E-08	4.622E-08	3.578E-08	2.867E-08	2.361E-08
WSW	7.022E-11	7.090E-09	4.141E-08	8.755E-08	1.441E-07	9.289E-08	6.548E-08	4.914E-08	3.859E-08	3.135E-08	2.616E-08
W	8.559E-10	5.013E-08	1.800E-07	2.386E-07	2.432E-07	1.559E-07	1.090E-07	8.117E-08	6.327E-08	5.106E-08	4.233E-08
WNW	2.301E-09	2.786E-08	1.419E-07	2.615E-07	3.515E-07	2.176E-07	1.487E-07	1.145E-07	9.178E-08	7.275E-08	5.936E-08
NW	4.635E-09	2.800E-08	1.154E-07	2.635E-07	4.188E-07	2.454E-07	1.623E-07	1.189E-07	9.179E-08	7.215E-08	5.849E-08
NNW	1.284E-08	2.772E-08	5.384E-08	8.505E-08	1.294E-07	1.314E-07	1.262E-07	1.190E-07	1.141E-07	9.053E-08	7.401E-08
N	2.064E-08	4.127E-08	5.100E-08	5.149E-08	4.931E-08	4.368E-08	3.736E-08	3.128E-08	2.653E-08	2.281E-08	1.989E-08
NNE	1.309E-10	9.326E-09	2.653E-08	3.708E-08	4.150E-08	3.661E-08	3.068E-08	2.563E-08	2.164E-08	1.851E-08	1.605E-08
NE	5.222E-16	4.596E-10	7.388E-09	1.456E-08	1.935E-08	1.823E-08	1.591E-08	1.368E-08	1.180E-08	1.027E-08	9.033E-09
ENE	4.466E-16	4.193E-10	7.090E-09	1.430E-08	1.920E-08	1.804E-08	1.568E-08	1.344E-08	1.157E-08	1.006E-08	8.843E-09
E	3.217E-11	1.996E-09	1.043E-08	1.881E-08	2.427E-08	2.225E-08	1.889E-08	1.584E-08	1.335E-08	1.138E-08	9.819E-09
ESE	1.722E-11	2.071E-09	1.587E-08	2.844E-08	3.485E-08	3.117E-08	2.620E-08	2.190E-08	1.849E-08	1.581E-08	1.371E-08
SE	1.082E-10	7.605E-09	3.317E-08	5.269E-08	6.109E-08	5.383E-08	4.493E-08	3.738E-08	3.142E-08	2.677E-08	2.312E-08
SSE	1.599E-09	2.063E-08	5.479E-08	7.426E-08	7.920E-08	6.781E-08	5.567E-08	4.580E-08	3.817E-08	3.230E-08	2.774E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.111E-08	1.941E-08	1.209E-08	6.421E-09	4.101E-09	2.874E-09	2.128E-09	1.647E-09	1.325E-09	1.094E-09	9.197E-10
SSW	2.085E-08	1.331E-08	8.212E-09	4.315E-09	2.744E-09	1.931E-09	1.440E-09	1.123E-09	9.044E-10	7.463E-10	6.280E-10
SW	2.110E-08	1.443E-08	9.082E-09	4.890E-09	3.217E-09	2.303E-09	1.767E-09	1.383E-09	1.117E-09	9.247E-10	7.801E-10
WSW	2.360E-08	1.639E-08	1.162E-08	6.937E-09	4.498E-09	3.210E-09	2.433E-09	1.922E-09	1.566E-09	1.306E-09	1.109E-09
W	3.585E-08	1.975E-08	1.416E-08	8.770E-09	6.096E-09	4.351E-09	3.283E-09	2.585E-09	2.099E-09	1.745E-09	1.478E-09
WNW	5.018E-08	2.733E-08	1.800E-08	1.021E-08	6.458E-09	4.514E-09	3.412E-09	2.687E-09	2.172E-09	1.795E-09	1.512E-09
NW	4.914E-08	2.627E-08	1.725E-08	9.762E-09	6.198E-09	4.348E-09	3.316E-09	2.613E-09	2.114E-09	1.751E-09	1.479E-09
NNW	6.376E-08	3.696E-08	2.348E-08	1.276E-08	8.028E-09	5.582E-09	4.197E-09	3.313E-09	2.746E-09	2.298E-09	1.947E-09
N	1.759E-08	1.115E-08	9.415E-09	7.940E-09	6.785E-09	5.428E-09	4.154E-09	3.297E-09	2.694E-09	2.254E-09	1.920E-09
NNE	1.736E-08	2.800E-08	1.766E-08	9.627E-09	6.197E-09	4.394E-09	3.313E-09	2.606E-09	2.114E-09	1.756E-09	1.486E-09
NE	1.014E-08	1.551E-08	9.756E-09	5.303E-09	3.410E-09	2.418E-09	1.846E-09	1.470E-09	1.204E-09	1.004E-09	8.532E-10
ENE	9.644E-09	1.633E-08	1.054E-08	5.838E-09	3.722E-09	2.614E-09	2.057E-09	1.668E-09	1.359E-09	1.133E-09	9.619E-10
E	9.966E-09	1.019E-08	6.395E-09	3.429E-09	2.154E-09	1.496E-09	1.107E-09	8.565E-10	7.016E-10	5.861E-10	4.922E-10
ESE	1.408E-08	1.606E-08	1.025E-08	5.607E-09	3.555E-09	2.485E-09	1.848E-09	1.435E-09	1.150E-09	9.444E-10	7.906E-10
SE	2.021E-08	1.217E-08	9.299E-09	6.620E-09	4.830E-09	3.811E-09	3.159E-09	2.691E-09	2.205E-09	1.849E-09	1.578E-09
SSE	2.895E-08	3.169E-08	1.963E-08	1.043E-08	6.604E-09	4.622E-09	3.447E-09	2.686E-09	2.161E-09	1.782E-09	1.498E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.316E-08	6.007E-08	4.167E-08	3.148E-08	3.277E-08	1.876E-08	6.650E-09	2.902E-09	1.662E-09	1.098E-09
SSW	6.897E-08	4.922E-08	3.356E-08	2.959E-08	2.332E-08	1.272E-08	4.483E-09	1.952E-09	1.130E-09	7.493E-10
SW	7.631E-08	1.095E-07	6.317E-08	3.606E-08	2.418E-08	1.354E-08	5.078E-09	2.332E-09	1.391E-09	9.282E-10
WSW	5.429E-08	1.088E-07	6.625E-08	3.885E-08	2.675E-08	1.587E-08	6.893E-09	3.243E-09	1.933E-09	1.310E-09
W	1.772E-07	2.034E-07	1.104E-07	6.373E-08	4.252E-08	2.084E-08	8.779E-09	4.389E-09	2.599E-09	1.751E-09
WNW	1.697E-07	2.720E-07	1.534E-07	9.102E-08	5.993E-08	2.826E-08	1.027E-08	4.591E-09	2.698E-09	1.802E-09
NW	1.618E-07	3.072E-07	1.671E-07	9.206E-08	5.907E-08	2.734E-08	9.841E-09	4.429E-09	2.624E-09	1.758E-09
NNW	6.191E-08	1.204E-07	1.247E-07	1.065E-07	7.511E-08	3.692E-08	1.304E-08	5.680E-09	3.349E-09	2.301E-09
N	4.905E-08	4.729E-08	3.661E-08	2.647E-08	1.990E-08	1.181E-08	7.755E-09	5.280E-09	3.312E-09	2.261E-09
NNE	2.739E-08	3.834E-08	3.024E-08	2.159E-08	1.727E-08	2.104E-08	9.887E-09	4.443E-09	2.621E-09	1.762E-09
NE	9.036E-09	1.779E-08	1.563E-08	1.175E-08	9.807E-09	1.176E-08	5.451E-09	2.454E-09	1.476E-09	1.008E-09
ENE	8.811E-09	1.759E-08	1.541E-08	1.153E-08	9.500E-09	1.227E-08	5.943E-09	2.687E-09	1.661E-09	1.137E-09
E	1.228E-08	2.216E-08	1.857E-08	1.331E-08	1.034E-08	8.453E-09	3.521E-09	1.516E-09	8.691E-10	5.856E-10
ESE	1.839E-08	3.179E-08	2.580E-08	1.844E-08	1.447E-08	1.304E-08	5.728E-09	2.515E-09	1.444E-09	9.483E-10
SE	3.616E-08	5.600E-08	4.428E-08	3.135E-08	2.312E-08	1.268E-08	6.420E-09	3.822E-09	2.639E-09	1.854E-09
SSE	5.585E-08	7.304E-08	5.496E-08	3.811E-08	2.954E-08	2.572E-08	1.077E-08	4.680E-09	2.703E-09	1.789E-09

ERP ELEVATED STACK RELEASES - JAN-JUN 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	4.790E-09	4.168E-09	3.944E-09	2.955E-09	1.538E-09	9.690E-10	6.643E-10	4.806E-10	3.612E-10	3.059E-10	2.647E-10
SSW	4.354E-09	3.603E-09	3.152E-09	2.228E-09	1.110E-09	6.871E-10	4.668E-10	3.362E-10	3.086E-10	2.333E-10	1.826E-10
SW	2.001E-09	1.771E-09	1.716E-09	1.306E-09	1.188E-09	6.445E-10	3.994E-10	2.713E-10	1.962E-10	1.484E-10	1.162E-10
WSW	6.931E-10	7.460E-10	9.037E-10	1.558E-09	8.312E-10	4.503E-10	2.781E-10	1.884E-10	1.360E-10	1.028E-10	8.043E-11
W	9.568E-10	3.605E-09	3.101E-09	2.026E-09	9.466E-10	5.098E-10	3.143E-10	2.132E-10	1.545E-10	1.175E-10	9.285E-11
WNW	9.788E-10	1.095E-09	2.827E-09	2.629E-09	1.533E-09	7.926E-10	4.777E-10	3.226E-10	2.530E-10	1.964E-10	1.611E-10
NW	1.665E-09	1.801E-09	2.191E-09	4.293E-09	2.777E-09	1.384E-09	8.182E-10	5.426E-10	3.919E-10	3.025E-10	2.467E-10
NNW	3.193E-09	2.779E-09	2.630E-09	1.970E-09	1.793E-09	9.683E-10	6.013E-10	5.038E-10	3.783E-10	3.062E-10	2.630E-10
N	6.687E-09	5.315E-09	4.333E-09	2.886E-09	1.367E-09	8.284E-10	5.565E-10	3.984E-10	2.978E-10	2.299E-10	1.820E-10
NNE	1.240E-09	1.296E-09	1.526E-09	1.298E-09	7.340E-10	4.766E-10	3.316E-10	2.418E-10	1.824E-10	1.414E-10	1.119E-10
NE	4.062E-11	2.437E-10	5.190E-10	5.375E-10	3.358E-10	2.251E-10	1.590E-10	1.168E-10	8.847E-11	6.867E-11	5.438E-11
ENE	3.796E-11	2.277E-10	4.849E-10	5.023E-10	3.137E-10	2.104E-10	1.486E-10	1.092E-10	8.267E-11	6.417E-11	5.082E-11
E	4.308E-10	5.371E-10	7.328E-10	6.648E-10	3.896E-10	2.561E-10	1.792E-10	1.310E-10	9.900E-11	7.677E-11	6.079E-11
ESE	2.137E-10	5.999E-10	1.140E-09	1.150E-09	7.096E-10	4.741E-10	3.343E-10	2.454E-10	1.858E-10	1.442E-10	1.142E-10
SE	1.195E-09	1.707E-09	2.538E-09	2.378E-09	1.417E-09	9.363E-10	6.568E-10	4.809E-10	3.636E-10	2.820E-10	2.233E-10
SSE	2.407E-09	2.839E-09	3.716E-09	3.315E-09	1.925E-09	1.262E-09	8.816E-10	6.441E-10	4.865E-10	3.772E-10	2.987E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	2.129E-10	1.325E-10	8.754E-11	4.940E-11	3.122E-11	2.407E-11	1.723E-11	1.292E-11	1.003E-11	7.978E-12	6.513E-12
SSW	1.472E-10	9.041E-11	5.962E-11	3.364E-11	2.377E-11	1.623E-11	1.164E-11	8.745E-12	6.797E-12	5.430E-12	4.432E-12
SW	9.450E-11	6.779E-11	4.655E-11	2.715E-11	1.727E-11	1.198E-11	8.778E-12	6.591E-12	5.125E-12	4.094E-12	3.342E-12
WSW	6.470E-11	5.926E-11	4.286E-11	2.616E-11	1.584E-11	1.063E-11	7.675E-12	5.763E-12	4.481E-12	3.579E-12	2.921E-12
W	7.559E-11	3.592E-11	5.847E-11	3.787E-11	2.168E-11	1.470E-11	1.053E-11	7.907E-12	6.148E-12	4.911E-12	4.009E-12
WNW	1.394E-10	8.355E-11	5.936E-11	3.558E-11	2.292E-11	1.533E-11	1.056E-11	7.934E-12	6.315E-12	5.044E-12	4.117E-12
NW	2.113E-10	1.243E-10	8.763E-11	5.383E-11	3.285E-11	2.203E-11	1.605E-11	1.206E-11	9.446E-12	7.546E-12	6.159E-12
NNW	2.366E-10	1.612E-10	1.214E-10	7.605E-11	4.898E-11	3.255E-11	2.181E-11	1.558E-11	1.192E-11	9.522E-12	7.773E-12
N	1.471E-10	7.022E-11	4.319E-11	2.321E-11	5.876E-11	3.470E-11	2.481E-11	1.863E-11	1.449E-11	1.157E-11	9.446E-12
NNE	9.024E-11	1.439E-10	8.903E-11	4.616E-11	2.817E-11	1.886E-11	1.348E-11	1.009E-11	7.825E-12	6.239E-12	5.084E-12
NE	4.380E-11	8.746E-11	5.424E-11	2.819E-11	1.721E-11	1.151E-11	8.158E-12	6.094E-12	4.738E-12	3.785E-12	3.089E-12
ENE	4.093E-11	6.624E-11	5.062E-11	3.199E-11	2.055E-11	1.358E-11	9.491E-12	6.130E-12	4.768E-12	3.810E-12	3.112E-12
E	4.899E-11	4.760E-11	3.345E-11	1.984E-11	1.260E-11	8.379E-12	5.919E-12	4.369E-12	3.353E-12	2.731E-12	2.229E-12
ESE	9.196E-11	1.005E-10	7.227E-11	4.362E-11	2.775E-11	1.839E-11	1.293E-11	9.498E-12	7.253E-12	5.709E-12	4.603E-12
SE	1.799E-10	8.528E-11	5.204E-11	2.742E-11	1.676E-11	1.157E-11	8.695E-12	1.842E-11	1.412E-11	1.116E-11	9.044E-12
SSE	2.407E-10	2.597E-10	1.597E-10	8.224E-11	5.008E-11	3.355E-11	2.400E-11	1.799E-11	1.396E-11	1.114E-11	9.084E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.554E-09	1.600E-09	6.721E-10	3.743E-10	2.577E-10	1.304E-10	4.979E-11	2.324E-11	1.305E-11	8.042E-12
SSW	2.842E-09	1.170E-09	4.733E-10	2.878E-10	1.845E-10	8.935E-11	3.503E-11	1.640E-11	8.829E-12	5.465E-12
SW	1.546E-09	9.725E-10	4.135E-10	1.994E-10	1.177E-10	6.429E-11	2.707E-11	1.211E-11	6.658E-12	4.121E-12
WSW	1.160E-09	8.235E-10	2.882E-10	1.383E-10	8.123E-11	5.318E-11	2.529E-11	1.084E-11	5.821E-12	3.603E-12
W	2.735E-09	9.923E-10	3.260E-10	1.572E-10	9.377E-11	5.476E-11	3.525E-11	1.489E-11	7.986E-12	4.943E-12
WNW	2.354E-09	1.448E-09	4.996E-10	2.513E-10	1.636E-10	8.522E-11	3.524E-11	1.545E-11	8.068E-12	5.077E-12
NW	3.039E-09	2.495E-09	8.588E-10	4.009E-10	2.502E-10	1.273E-10	5.201E-11	2.252E-11	1.220E-11	7.595E-12
NNW	2.369E-09	1.466E-09	6.602E-10	3.867E-10	2.660E-10	1.602E-10	7.409E-11	3.264E-11	1.597E-11	9.585E-12
N	3.908E-09	1.465E-09	5.658E-10	3.007E-10	1.833E-10	7.528E-11	4.345E-11	3.716E-11	1.882E-11	1.165E-11
NNE	1.374E-09	7.450E-10	3.343E-10	1.837E-10	1.126E-10	1.076E-10	4.769E-11	1.919E-11	1.019E-11	6.281E-12
NE	4.661E-10	3.314E-10	1.598E-10	8.903E-11	5.470E-11	6.300E-11	2.910E-11	1.169E-11	6.168E-12	3.810E-12
ENE	4.355E-10	3.097E-10	1.493E-10	8.319E-11	5.111E-11	5.367E-11	3.105E-11	1.380E-11	6.571E-12	3.835E-12
E	6.591E-10	3.914E-10	1.804E-10	9.968E-11	6.115E-11	4.162E-11	1.965E-11	8.520E-12	4.425E-12	2.730E-12
ESE	1.024E-09	7.028E-10	3.360E-10	1.870E-10	1.148E-10	8.606E-11	4.293E-11	1.870E-11	9.624E-12	5.757E-12
SE	2.282E-09	1.417E-09	6.610E-10	3.660E-10	2.246E-10	9.154E-11	2.815E-11	1.180E-11	1.401E-11	1.126E-11
SSE	3.343E-09	1.939E-09	8.879E-10	4.899E-10	3.005E-10	2.111E-10	8.517E-11	3.414E-11	1.817E-11	1.122E-11

ERP ELEVATED STACK RELEASES - JAN-JUN 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.26 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.0 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	6.8E-08	6.8E-08	6.7E-08	3.8E-09
A	Site Boundary	SSW	.82	7.5E-08	7.5E-08	7.3E-08	2.9E-09
A	Site Boundary	SW	.97	1.0E-07	1.0E-07	1.0E-07	1.4E-09
A	Site Boundary	WSW	.93	7.5E-08	7.5E-08	7.4E-08	1.4E-09
A	Site Boundary	W	.91	2.3E-07	2.3E-07	2.3E-07	2.3E-09
A	Site Boundary	WNW	.94	2.4E-07	2.4E-07	2.4E-07	2.9E-09
A	Site Boundary	NW	.81	1.5E-07	1.5E-07	1.5E-07	2.2E-09
A	Site Boundary	NNW	.69	4.5E-08	4.5E-08	4.4E-08	2.6E-09
A	Site Boundary	N	.67	4.8E-08	4.8E-08	4.7E-08	4.6E-09
A	Site Boundary	NNE	.60	1.5E-08	1.5E-08	1.5E-08	1.4E-09
A	Site Boundary	NE	.62	2.8E-09	2.8E-09	2.8E-09	3.8E-10
A	Site Boundary	ENE	.59	1.7E-09	1.7E-09	1.7E-09	3.2E-10
A	Site Boundary	E	.53	2.4E-09	2.4E-09	2.4E-09	5.5E-10
A	Site Boundary	ESE	.54	3.1E-09	3.1E-09	3.1E-09	6.8E-10
A	Site Boundary	SE	.65	2.1E-08	2.1E-08	2.0E-08	2.2E-09
A	Site Boundary	SSE	.81	6.2E-08	6.2E-08	6.1E-08	3.7E-09
A	Nearest Res	SW	1.30	1.4E-07	1.4E-07	1.3E-07	1.6E-09
A	Nearest Res	WSW	1.90	1.0E-07	1.0E-07	1.0E-07	5.0E-10
A	Nearest Res	WNW	2.50	1.5E-07	1.5E-07	1.5E-07	4.8E-10
A	Nearest Res	NW	1.20	3.6E-07	3.6E-07	3.6E-07	3.1E-09
A	Nearest Res	NNW	2.00	1.3E-07	1.3E-07	1.3E-07	9.7E-10
A	Nearest Res	NE	1.70	1.9E-08	1.9E-08	1.9E-08	2.8E-10
A	Nearest Res	E	1.90	2.3E-08	2.3E-08	2.3E-08	2.8E-10
A	Nearest Cow	NNW	3.50	1.2E-07	1.2E-07	1.1E-07	3.8E-10
A	Nearest Garde	SW	2.20	7.9E-08	7.9E-08	7.7E-08	5.3E-10
A	Nearest Garde	WSW	2.50	6.7E-08	6.7E-08	6.5E-08	2.8E-10
A	Nearest Garde	WNW	2.70	1.4E-07	1.4E-07	1.3E-07	4.0E-10
A	Nearest Garde	NNW	2.70	1.3E-07	1.2E-07	1.2E-07	5.9E-10
A	Nearest Garde	ENE	1.70	1.9E-08	1.9E-08	1.9E-08	2.7E-10
A	Nearest Garde	E	1.90	2.3E-08	2.3E-08	2.3E-08	2.8E-10
A	Nearest Garde	ESE	2.20	3.0E-08	3.0E-08	2.9E-08	4.1E-10
A	Nearest Garde	SE	1.90	5.7E-08	5.6E-08	5.6E-08	1.0E-09
A	MAXIMUM CHI/Q	S	1.00	7.1E-08	7.1E-08	7.0E-08	3.0E-09
A	MAXIMUM CHI/Q	SSW	.75	7.8E-08	7.8E-08	7.7E-08	3.2E-09
A	MAXIMUM CHI/Q	SW	1.50	1.4E-07	1.4E-07	1.4E-07	1.2E-09
A	MAXIMUM CHI/Q	WSW	1.50	1.5E-07	1.5E-07	1.4E-07	8.3E-10
A	MAXIMUM CHI/Q	W	1.50	2.5E-07	2.5E-07	2.4E-07	9.5E-10
A	MAXIMUM CHI/Q	WNW	1.50	3.6E-07	3.6E-07	3.5E-07	1.5E-09
A	MAXIMUM CHI/Q	NW	1.50	4.3E-07	4.2E-07	4.2E-07	2.8E-09
A	MAXIMUM CHI/Q	NNW	2.00	1.3E-07	1.3E-07	1.3E-07	9.7E-10
A	MAXIMUM CHI/Q	N	1.00	5.2E-08	5.2E-08	5.1E-08	2.9E-09
A	MAXIMUM CHI/Q	NNE	1.50	4.2E-08	4.2E-08	4.2E-08	7.3E-10
A	MAXIMUM CHI/Q	NE	1.50	2.0E-08	1.9E-08	1.9E-08	3.4E-10
A	MAXIMUM CHI/Q	ENE	1.50	1.9E-08	1.9E-08	1.9E-08	3.1E-10
A	MAXIMUM CHI/Q	E	1.50	2.5E-08	2.4E-08	2.4E-08	3.9E-10
A	MAXIMUM CHI/Q	ESE	1.50	3.5E-08	3.5E-08	3.5E-08	7.1E-10
A	MAXIMUM CHI/Q	SE	1.50	6.2E-08	6.2E-08	6.1E-08	1.4E-09
A	MAXIMUM CHI/Q	SSE	1.50	8.0E-08	8.0E-08	7.9E-08	1.9E-09

Atmospheric Diffusion Estimates

Elevated Releases

July-September 2025

B300

ERP ELEVATED STACK RELEASES - JUL-SEP 2025
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.927E-08	8.939E-08	1.187E-07	1.054E-07	8.580E-08	6.961E-08	5.677E-08	4.697E-08	3.952E-08	4.672E-08	5.243E-08
SSW	9.814E-09	6.844E-08	8.678E-08	6.616E-08	4.352E-08	3.283E-08	2.639E-08	3.014E-08	3.512E-08	3.273E-08	3.077E-08
SW	2.172E-08	2.626E-08	4.219E-08	6.262E-08	1.159E-07	8.580E-08	6.576E-08	5.220E-08	4.267E-08	3.573E-08	3.052E-08
WSW	1.584E-10	1.791E-08	6.595E-08	1.318E-07	2.607E-07	1.731E-07	1.237E-07	9.350E-08	7.368E-08	5.996E-08	5.005E-08
W	2.065E-08	1.579E-07	3.561E-07	4.394E-07	4.392E-07	2.823E-07	1.975E-07	1.470E-07	1.146E-07	9.241E-08	7.657E-08
WNW	3.610E-10	3.251E-08	2.051E-07	4.252E-07	6.978E-07	4.550E-07	3.223E-07	2.576E-07	2.130E-07	1.717E-07	1.423E-07
NW	1.333E-10	1.270E-08	1.728E-07	5.118E-07	1.067E-06	6.552E-07	4.473E-07	3.368E-07	2.655E-07	2.119E-07	1.741E-07
NNW	2.891E-11	4.296E-09	8.389E-08	2.038E-07	3.361E-07	3.407E-07	3.268E-07	3.031E-07	2.815E-07	2.234E-07	1.828E-07
N	1.415E-09	8.955E-09	3.925E-08	6.856E-08	8.784E-08	8.395E-08	7.394E-08	6.280E-08	5.371E-08	4.645E-08	4.065E-08
NNE	4.164E-16	4.789E-10	8.805E-09	1.890E-08	2.754E-08	2.705E-08	2.417E-08	2.111E-08	1.842E-08	1.618E-08	1.435E-08
NE	1.328E-16	2.589E-10	5.491E-09	1.220E-08	1.779E-08	1.723E-08	1.519E-08	1.312E-08	1.135E-08	9.895E-09	8.718E-09
ENE	1.856E-16	2.299E-10	4.348E-09	9.348E-09	1.338E-08	1.288E-08	1.131E-08	9.726E-09	8.376E-09	7.271E-09	6.376E-09
E	1.099E-16	1.991E-10	4.561E-09	1.086E-08	1.702E-08	1.697E-08	1.514E-08	1.314E-08	1.136E-08	9.886E-09	8.680E-09
ESE	3.387E-11	2.694E-09	1.152E-08	2.028E-08	2.722E-08	2.601E-08	2.286E-08	1.970E-08	1.700E-08	1.478E-08	1.297E-08
SE	2.891E-11	1.968E-09	9.405E-09	1.731E-08	2.396E-08	2.319E-08	2.053E-08	1.781E-08	1.547E-08	1.353E-08	1.194E-08
SSE	2.052E-09	1.765E-08	3.146E-08	3.736E-08	4.030E-08	3.606E-08	3.066E-08	2.592E-08	2.208E-08	1.903E-08	1.661E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.683E-08	2.998E-08	1.933E-08	1.098E-08	7.525E-09	5.591E-09	4.343E-09	3.511E-09	2.931E-09	2.499E-09	2.163E-09
SSW	3.044E-08	2.682E-08	1.761E-08	1.027E-08	7.334E-09	5.523E-09	4.334E-09	3.534E-09	2.964E-09	2.539E-09	2.212E-09
SW	2.911E-08	2.329E-08	1.541E-08	9.043E-09	6.423E-09	4.887E-09	3.901E-09	3.173E-09	2.655E-09	2.269E-09	1.973E-09
WSW	4.470E-08	2.950E-08	2.079E-08	1.270E-08	8.569E-09	6.328E-09	4.946E-09	4.019E-09	3.359E-09	2.870E-09	2.493E-09
W	6.483E-08	3.571E-08	2.547E-08	1.637E-08	1.195E-08	8.856E-09	6.908E-09	5.604E-09	4.679E-09	3.993E-09	3.466E-09
WNW	1.224E-07	7.175E-08	5.010E-08	3.146E-08	2.189E-08	1.652E-08	1.319E-08	1.086E-08	9.134E-09	7.818E-09	6.806E-09
NW	1.484E-07	8.413E-08	5.797E-08	3.556E-08	2.408E-08	1.784E-08	1.422E-08	1.164E-08	9.737E-09	8.323E-09	7.236E-09
NNW	1.570E-07	9.120E-08	5.968E-08	3.463E-08	2.361E-08	1.757E-08	1.396E-08	1.150E-08	9.813E-09	8.455E-09	7.362E-09
N	3.606E-08	2.299E-08	1.929E-08	1.642E-08	1.489E-08	1.289E-08	1.021E-08	8.351E-09	7.002E-09	5.998E-09	5.225E-09
NNE	1.624E-08	2.611E-08	1.701E-08	9.831E-09	6.688E-09	4.970E-09	3.905E-09	3.188E-09	2.676E-09	2.294E-09	1.999E-09
NE	9.694E-09	1.733E-08	1.135E-08	6.597E-09	4.508E-09	3.362E-09	2.684E-09	2.214E-09	1.876E-09	1.610E-09	1.404E-09
ENE	6.719E-09	1.007E-08	6.729E-09	4.006E-09	2.775E-09	2.090E-09	1.765E-09	1.510E-09	1.271E-09	1.092E-09	9.540E-10
E	9.077E-09	1.420E-08	9.556E-09	5.739E-09	3.997E-09	3.021E-09	2.405E-09	1.984E-09	1.772E-09	1.590E-09	1.391E-09
ESE	1.335E-08	1.351E-08	8.841E-09	5.104E-09	3.458E-09	2.558E-09	2.000E-09	1.625E-09	1.359E-09	1.160E-09	1.007E-09
SE	1.064E-08	6.865E-09	5.605E-09	4.438E-09	3.421E-09	2.818E-09	2.418E-09	2.131E-09	1.803E-09	1.556E-09	1.364E-09
SSE	1.790E-08	2.659E-08	1.731E-08	9.986E-09	6.791E-09	5.046E-09	3.964E-09	3.236E-09	2.716E-09	2.328E-09	2.030E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.063E-07	8.295E-08	5.627E-08	4.439E-08	4.866E-08	2.899E-08	1.130E-08	5.608E-09	3.528E-09	2.503E-09
SSW	7.354E-08	4.380E-08	2.961E-08	3.279E-08	3.123E-08	2.353E-08	1.060E-08	5.530E-09	3.546E-09	2.544E-09
SW	4.773E-08	9.070E-08	6.568E-08	4.275E-08	3.154E-08	2.108E-08	9.294E-09	4.902E-09	3.184E-09	2.274E-09
WSW	8.456E-08	1.931E-07	1.248E-07	7.412E-08	5.101E-08	2.901E-08	1.266E-08	6.373E-09	4.033E-09	2.875E-09
W	3.491E-07	3.695E-07	2.000E-07	1.154E-07	7.692E-08	3.763E-08	1.643E-08	8.902E-09	5.624E-09	4.001E-09
WNW	2.646E-07	5.293E-07	3.318E-07	2.100E-07	1.437E-07	7.339E-08	3.135E-08	1.662E-08	1.087E-08	7.833E-09
NW	2.879E-07	7.605E-07	4.586E-07	2.655E-07	1.758E-07	8.678E-08	3.544E-08	1.806E-08	1.165E-08	8.340E-09
NNW	1.195E-07	3.087E-07	3.210E-07	2.655E-07	1.853E-07	9.182E-08	3.530E-08	1.774E-08	1.156E-08	8.453E-09
N	4.555E-08	8.183E-08	7.215E-08	5.354E-08	4.067E-08	2.425E-08	1.638E-08	1.235E-08	8.368E-09	6.009E-09
NNE	1.144E-08	2.540E-08	2.371E-08	1.834E-08	1.559E-08	1.987E-08	1.003E-08	5.002E-09	3.198E-09	2.298E-09
NE	7.310E-09	1.630E-08	1.490E-08	1.130E-08	9.428E-09	1.297E-08	6.724E-09	3.396E-09	2.220E-09	1.613E-09
ENE	5.655E-09	1.226E-08	1.109E-08	8.341E-09	6.768E-09	7.841E-09	4.064E-09	2.143E-09	1.492E-09	1.094E-09
E	6.393E-09	1.563E-08	1.483E-08	1.131E-08	9.184E-09	1.100E-08	5.813E-09	3.035E-09	2.023E-09	1.570E-09
ESE	1.345E-08	2.514E-08	2.244E-08	1.693E-08	1.365E-08	1.140E-08	5.203E-09	2.575E-09	1.631E-09	1.162E-09
SE	1.127E-08	2.214E-08	2.015E-08	1.540E-08	1.193E-08	7.144E-09	4.245E-09	2.819E-09	2.088E-09	1.558E-09
SSE	3.101E-08	3.776E-08	3.020E-08	2.201E-08	1.780E-08	2.053E-08	1.019E-08	5.078E-09	3.246E-09	2.333E-09

ERP ELEVATED STACK RELEASES - JUL-SEP 2025
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.925E-08	8.926E-08	1.185E-07	1.051E-07	8.547E-08	6.926E-08	5.642E-08	4.662E-08	3.918E-08	4.626E-08	5.185E-08
SSW	9.808E-09	6.835E-08	8.659E-08	6.596E-08	4.332E-08	3.263E-08	2.619E-08	2.987E-08	3.476E-08	3.235E-08	3.037E-08
SW	2.171E-08	2.623E-08	4.211E-08	6.244E-08	1.153E-07	8.517E-08	6.514E-08	5.160E-08	4.209E-08	3.518E-08	2.998E-08
WSW	1.583E-10	1.789E-08	6.583E-08	1.315E-07	2.596E-07	1.721E-07	1.228E-07	9.263E-08	7.288E-08	5.921E-08	4.934E-08
W	2.063E-08	1.577E-07	3.553E-07	4.381E-07	4.371E-07	2.804E-07	1.959E-07	1.455E-07	1.132E-07	9.111E-08	7.535E-08
WNW	3.608E-10	3.247E-08	2.047E-07	4.239E-07	6.942E-07	4.517E-07	3.192E-07	2.546E-07	2.100E-07	1.690E-07	1.397E-07
NW	1.332E-10	1.269E-08	1.726E-07	5.108E-07	1.063E-06	6.521E-07	4.445E-07	3.343E-07	2.632E-07	2.097E-07	1.721E-07
NNW	2.891E-11	4.294E-09	8.380E-08	2.035E-07	3.353E-07	3.396E-07	3.255E-07	3.016E-07	2.798E-07	2.218E-07	1.814E-07
N	1.415E-09	8.951E-09	3.922E-08	6.846E-08	8.764E-08	8.369E-08	7.366E-08	6.251E-08	5.342E-08	4.617E-08	4.037E-08
NNE	4.162E-16	4.786E-10	8.792E-09	1.885E-08	2.743E-08	2.691E-08	2.401E-08	2.094E-08	1.824E-08	1.600E-08	1.417E-08
NE	1.328E-16	2.587E-10	5.481E-09	1.217E-08	1.772E-08	1.713E-08	1.508E-08	1.301E-08	1.123E-08	9.780E-09	8.604E-09
ENE	1.855E-16	2.297E-10	4.341E-09	9.327E-09	1.333E-08	1.281E-08	1.123E-08	9.651E-09	8.301E-09	7.196E-09	6.303E-09
E	1.099E-16	1.989E-10	4.552E-09	1.083E-08	1.693E-08	1.685E-08	1.500E-08	1.299E-08	1.121E-08	9.734E-09	8.529E-09
ESE	3.386E-11	2.692E-09	1.150E-08	2.023E-08	2.711E-08	2.586E-08	2.268E-08	1.952E-08	1.681E-08	1.459E-08	1.278E-08
SE	2.890E-11	1.967E-09	9.392E-09	1.727E-08	2.386E-08	2.305E-08	2.037E-08	1.764E-08	1.529E-08	1.335E-08	1.176E-08
SSE	2.051E-09	1.764E-08	3.142E-08	3.729E-08	4.017E-08	3.588E-08	3.047E-08	2.572E-08	2.188E-08	1.884E-08	1.642E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.625E-08	2.941E-08	1.884E-08	1.057E-08	7.154E-09	5.250E-09	4.028E-09	3.217E-09	2.654E-09	2.236E-09	1.913E-09
SSW	3.000E-08	2.626E-08	1.712E-08	9.850E-09	6.939E-09	5.156E-09	3.993E-09	3.214E-09	2.662E-09	2.252E-09	1.937E-09
SW	2.854E-08	2.261E-08	1.482E-08	8.529E-09	5.947E-09	4.443E-09	3.483E-09	2.784E-09	2.290E-09	1.924E-09	1.646E-09
WSW	4.399E-08	2.879E-08	2.012E-08	1.209E-08	8.033E-09	5.841E-09	4.497E-09	3.599E-09	2.964E-09	2.495E-09	2.137E-09
W	6.368E-08	3.475E-08	2.455E-08	1.548E-08	1.107E-08	8.054E-09	6.168E-09	4.915E-09	4.031E-09	3.380E-09	2.884E-09
WNW	1.199E-07	6.948E-08	4.796E-08	2.943E-08	2.003E-08	1.479E-08	1.154E-08	9.297E-09	7.655E-09	6.416E-09	5.470E-09
NW	1.465E-07	8.249E-08	5.645E-08	3.417E-08	2.284E-08	1.670E-08	1.314E-08	1.061E-08	8.769E-09	7.403E-09	6.356E-09
NNW	1.557E-07	8.995E-08	5.857E-08	3.367E-08	2.274E-08	1.676E-08	1.319E-08	1.075E-08	9.088E-09	7.754E-09	6.688E-09
N	3.578E-08	2.272E-08	1.898E-08	1.599E-08	1.435E-08	1.230E-08	9.654E-09	7.824E-09	6.502E-09	5.519E-09	4.765E-09
NNE	1.602E-08	2.565E-08	1.662E-08	9.500E-09	6.393E-09	4.701E-09	3.655E-09	2.953E-09	2.454E-09	2.083E-09	1.797E-09
NE	9.550E-09	1.697E-08	1.103E-08	6.329E-09	4.269E-09	3.144E-09	2.479E-09	2.021E-09	1.691E-09	1.434E-09	1.237E-09
ENE	6.636E-09	9.882E-09	6.559E-09	3.854E-09	2.635E-09	1.958E-09	1.629E-09	1.374E-09	1.141E-09	9.675E-10	8.342E-10
E	8.899E-09	1.373E-08	9.143E-09	5.371E-09	3.659E-09	2.706E-09	2.108E-09	1.702E-09	1.488E-09	1.307E-09	1.120E-09
ESE	1.312E-08	1.316E-08	8.539E-09	4.848E-09	3.231E-09	2.351E-09	1.810E-09	1.448E-09	1.192E-09	1.002E-09	8.574E-10
SE	1.046E-08	6.691E-09	5.414E-09	4.210E-09	3.189E-09	2.581E-09	2.177E-09	1.885E-09	1.568E-09	1.331E-09	1.148E-09
SSE	1.767E-08	2.608E-08	1.686E-08	9.604E-09	6.449E-09	4.733E-09	3.673E-09	2.961E-09	2.456E-09	2.080E-09	1.792E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
	SEGMENT BOUNDARIES IN MILES FROM THE SITE									
S	1.060E-07	8.262E-08	5.592E-08	4.400E-08	4.812E-08	2.846E-08	1.089E-08	5.269E-09	3.234E-09	2.240E-09
SSW	7.337E-08	4.360E-08	2.938E-08	3.244E-08	3.082E-08	2.303E-08	1.017E-08	5.166E-09	3.226E-09	2.257E-09
SW	4.762E-08	9.017E-08	6.506E-08	4.217E-08	3.099E-08	2.047E-08	8.779E-09	4.460E-09	2.795E-09	1.929E-09
WSW	8.436E-08	1.922E-07	1.239E-07	7.331E-08	5.028E-08	2.832E-08	1.207E-08	5.888E-09	3.614E-09	2.502E-09
W	3.482E-07	3.677E-07	1.983E-07	1.140E-07	7.570E-08	3.664E-08	1.553E-08	8.105E-09	4.936E-09	3.389E-09
WNW	2.639E-07	5.264E-07	3.287E-07	2.071E-07	1.411E-07	7.113E-08	2.937E-08	1.489E-08	9.314E-09	6.433E-09
NW	2.874E-07	7.576E-07	4.558E-07	2.631E-07	1.737E-07	8.513E-08	3.409E-08	1.691E-08	1.063E-08	7.420E-09
NNW	1.193E-07	3.079E-07	3.197E-07	2.639E-07	1.838E-07	9.060E-08	3.434E-08	1.693E-08	1.082E-08	7.755E-09
N	4.549E-08	8.163E-08	7.188E-08	5.325E-08	4.039E-08	2.396E-08	1.593E-08	1.179E-08	7.843E-09	5.531E-09
NNE	1.142E-08	2.529E-08	2.355E-08	1.816E-08	1.540E-08	1.950E-08	9.702E-09	4.734E-09	2.964E-09	2.087E-09
NE	7.293E-09	1.622E-08	1.480E-08	1.119E-08	9.303E-09	1.268E-08	6.458E-09	3.178E-09	2.026E-09	1.437E-09
ENE	5.643E-09	1.221E-08	1.102E-08	8.266E-09	6.691E-09	7.684E-09	3.913E-09	2.007E-09	1.358E-09	9.695E-10
E	6.375E-09	1.554E-08	1.469E-08	1.116E-08	9.023E-09	1.062E-08	5.448E-09	2.721E-09	1.736E-09	1.291E-09
ESE	1.342E-08	2.503E-08	2.227E-08	1.674E-08	1.344E-08	1.110E-08	4.949E-09	2.369E-09	1.454E-09	1.005E-09
SE	1.124E-08	2.204E-08	1.999E-08	1.522E-08	1.175E-08	6.962E-09	4.024E-09	2.581E-09	1.848E-09	1.334E-09
SSE	3.097E-08	3.762E-08	3.001E-08	2.182E-08	1.760E-08	2.011E-08	9.814E-09	4.766E-09	2.972E-09	2.085E-09

ERP ELEVATED STACK RELEASES - JUL-SEP 2025
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.927E-08	8.856E-08	1.162E-07	1.029E-07	8.356E-08	6.752E-08	5.479E-08	4.511E-08	3.778E-08	4.478E-08	5.038E-08
SSW	9.812E-09	6.780E-08	8.474E-08	6.409E-08	4.192E-08	3.156E-08	2.533E-08	2.912E-08	3.412E-08	3.181E-08	2.992E-08
SW	2.172E-08	2.601E-08	4.145E-08	6.187E-08	1.146E-07	8.443E-08	6.448E-08	5.103E-08	4.160E-08	3.476E-08	2.963E-08
WSW	1.584E-10	1.775E-08	6.504E-08	1.307E-07	2.578E-07	1.702E-07	1.211E-07	9.113E-08	7.158E-08	5.809E-08	4.836E-08
W	2.065E-08	1.558E-07	3.517E-07	4.332E-07	4.311E-07	2.754E-07	1.918E-07	1.422E-07	1.104E-07	8.878E-08	7.336E-08
WNW	3.610E-10	3.227E-08	2.041E-07	4.222E-07	6.892E-07	4.469E-07	3.151E-07	2.512E-07	2.072E-07	1.664E-07	1.373E-07
NW	1.333E-10	1.260E-08	1.722E-07	5.096E-07	1.055E-06	6.436E-07	4.370E-07	3.280E-07	2.578E-07	2.048E-07	1.674E-07
NNW	2.891E-11	4.281E-09	8.380E-08	2.036E-07	3.331E-07	3.354E-07	3.208E-07	2.971E-07	2.759E-07	2.179E-07	1.775E-07
N	1.415E-09	8.891E-09	3.908E-08	6.838E-08	8.698E-08	8.253E-08	7.223E-08	6.099E-08	5.191E-08	4.470E-08	3.896E-08
NNE	4.163E-16	4.788E-10	8.801E-09	1.888E-08	2.728E-08	2.659E-08	2.360E-08	2.049E-08	1.779E-08	1.556E-08	1.374E-08
NE	1.328E-16	2.589E-10	5.488E-09	1.219E-08	1.762E-08	1.692E-08	1.480E-08	1.270E-08	1.092E-08	9.473E-09	8.307E-09
ENE	1.855E-16	2.299E-10	4.346E-09	9.342E-09	1.325E-08	1.265E-08	1.102E-08	9.415E-09	8.059E-09	6.957E-09	6.071E-09
E	1.099E-16	1.990E-10	4.559E-09	1.085E-08	1.685E-08	1.665E-08	1.473E-08	1.269E-08	1.090E-08	9.424E-09	8.227E-09
ESE	3.387E-11	2.673E-09	1.143E-08	2.018E-08	2.691E-08	2.552E-08	2.226E-08	1.907E-08	1.635E-08	1.414E-08	1.235E-08
SE	2.891E-11	1.953E-09	9.347E-09	1.724E-08	2.370E-08	2.275E-08	2.000E-08	1.724E-08	1.488E-08	1.295E-08	1.138E-08
SSE	2.051E-09	1.749E-08	3.097E-08	3.687E-08	3.965E-08	3.524E-08	2.976E-08	2.499E-08	2.117E-08	1.814E-08	1.575E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.490E-08	2.818E-08	1.756E-08	9.321E-09	5.927E-09	4.139E-09	3.066E-09	2.375E-09	1.909E-09	1.577E-09	1.325E-09
SSW	2.964E-08	2.578E-08	1.634E-08	8.836E-09	5.811E-09	4.187E-09	3.163E-09	2.492E-09	2.025E-09	1.684E-09	1.426E-09
SW	2.825E-08	2.232E-08	1.425E-08	7.752E-09	5.049E-09	3.571E-09	2.726E-09	2.137E-09	1.727E-09	1.430E-09	1.206E-09
WSW	4.314E-08	2.786E-08	1.898E-08	1.094E-08	7.037E-09	4.990E-09	3.761E-09	2.955E-09	2.395E-09	1.988E-09	1.681E-09
W	6.195E-08	3.375E-08	2.384E-08	1.441E-08	9.821E-09	6.980E-09	5.244E-09	4.112E-09	3.327E-09	2.756E-09	2.327E-09
WNW	1.175E-07	6.669E-08	4.493E-08	2.613E-08	1.664E-08	1.165E-08	8.814E-09	6.969E-09	5.650E-09	4.671E-09	3.935E-09
NW	1.419E-07	7.797E-08	5.190E-08	2.966E-08	1.868E-08	1.301E-08	9.927E-09	7.834E-09	6.342E-09	5.256E-09	4.439E-09
NNW	1.517E-07	8.535E-08	5.390E-08	2.906E-08	1.820E-08	1.261E-08	9.417E-09	7.382E-09	6.073E-09	5.066E-09	4.280E-09
N	3.444E-08	2.168E-08	1.815E-08	1.549E-08	1.378E-08	1.137E-08	8.738E-09	6.950E-09	5.680E-09	4.751E-09	4.047E-09
NNE	1.557E-08	2.511E-08	1.580E-08	8.574E-09	5.487E-09	3.873E-09	2.909E-09	2.280E-09	1.845E-09	1.528E-09	1.290E-09
NE	9.244E-09	1.664E-08	1.052E-08	5.745E-09	3.689E-09	2.611E-09	1.998E-09	1.592E-09	1.308E-09	1.091E-09	9.260E-10
ENE	6.393E-09	9.655E-09	6.237E-09	3.462E-09	2.213E-09	1.556E-09	1.235E-09	1.006E-09	8.151E-10	6.760E-10	5.711E-10
E	8.585E-09	1.355E-08	8.809E-09	4.923E-09	3.157E-09	2.223E-09	1.662E-09	1.295E-09	1.096E-09	9.364E-10	7.826E-10
ESE	1.269E-08	1.281E-08	8.113E-09	4.386E-09	2.762E-09	1.920E-09	1.421E-09	1.098E-09	8.763E-10	7.167E-10	5.976E-10
SE	1.010E-08	6.416E-09	5.207E-09	4.107E-09	3.147E-09	2.580E-09	2.206E-09	1.935E-09	1.609E-09	1.367E-09	1.180E-09
SSE	1.698E-08	2.538E-08	1.595E-08	8.607E-09	5.456E-09	3.819E-09	2.846E-09	2.215E-09	1.779E-09	1.465E-09	1.229E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
	SEGMENT BOUNDARIES IN MILES FROM THE SITE									
S	1.041E-07	8.072E-08	5.431E-08	4.254E-08	4.669E-08	2.718E-08	9.644E-09	4.186E-09	2.395E-09	1.582E-09
SSW	7.180E-08	4.224E-08	2.851E-08	3.181E-08	3.038E-08	2.244E-08	9.158E-09	4.211E-09	2.506E-09	1.689E-09
SW	4.709E-08	8.948E-08	6.442E-08	4.169E-08	3.064E-08	2.005E-08	7.994E-09	3.627E-09	2.149E-09	1.435E-09
WSW	8.371E-08	1.906E-07	1.222E-07	7.203E-08	4.931E-08	2.731E-08	1.099E-08	5.044E-09	2.972E-09	1.995E-09
W	3.444E-07	3.624E-07	1.943E-07	1.113E-07	7.370E-08	3.561E-08	1.446E-08	7.043E-09	4.137E-09	2.766E-09
WNW	2.628E-07	5.221E-07	3.247E-07	2.042E-07	1.386E-07	6.830E-08	2.609E-08	1.184E-08	6.994E-09	4.689E-09
NW	2.867E-07	7.509E-07	4.485E-07	2.576E-07	1.690E-07	8.059E-08	2.972E-08	1.329E-08	7.864E-09	5.275E-09
NNW	1.194E-07	3.053E-07	3.152E-07	2.599E-07	1.799E-07	8.611E-08	2.975E-08	1.282E-08	7.465E-09	5.073E-09
N	4.539E-08	8.087E-08	7.048E-08	5.176E-08	3.899E-08	2.295E-08	1.532E-08	1.096E-08	6.977E-09	4.766E-09
NNE	1.143E-08	2.511E-08	2.315E-08	1.771E-08	1.496E-08	1.885E-08	8.808E-09	3.918E-09	2.294E-09	1.534E-09
NE	7.305E-09	1.610E-08	1.453E-08	1.088E-08	8.999E-09	1.228E-08	5.893E-09	2.653E-09	1.600E-09	1.094E-09
ENE	5.652E-09	1.211E-08	1.081E-08	8.027E-09	6.453E-09	7.411E-09	3.524E-09	1.603E-09	9.989E-10	6.784E-10
E	6.388E-09	1.543E-08	1.443E-08	1.085E-08	8.714E-09	1.034E-08	5.001E-09	2.248E-09	1.324E-09	9.268E-10
ESE	1.338E-08	2.479E-08	2.185E-08	1.629E-08	1.301E-08	1.069E-08	4.492E-09	1.945E-09	1.106E-09	7.199E-10
SE	1.121E-08	2.184E-08	1.963E-08	1.482E-08	1.137E-08	6.697E-09	3.925E-09	2.581E-09	1.888E-09	1.369E-09
SSE	3.060E-08	3.707E-08	2.932E-08	2.111E-08	1.692E-08	1.932E-08	8.838E-09	3.866E-09	2.229E-09	1.471E-09

ERP ELEVATED STACK RELEASES - JUL-SEP 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	.25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
	DISTANCES IN MILES										
S	5.173E-09	4.188E-09	3.529E-09	2.420E-09	1.175E-09	7.201E-10	4.866E-10	3.494E-10	2.616E-10	2.068E-10	1.893E-10
SSW	3.578E-09	2.672E-09	1.918E-09	1.122E-09	4.653E-10	2.645E-10	1.714E-10	1.203E-10	1.023E-10	7.749E-11	6.078E-11
SW	1.295E-09	1.059E-09	9.074E-10	6.310E-10	4.780E-10	2.618E-10	1.637E-10	1.119E-10	8.122E-11	6.161E-11	4.832E-11
WSW	1.316E-09	1.184E-09	1.175E-09	1.476E-09	8.639E-10	4.662E-10	2.876E-10	1.947E-10	1.405E-10	1.062E-10	8.310E-11
W	2.105E-09	5.336E-09	4.423E-09	2.967E-09	1.351E-09	7.277E-10	4.483E-10	3.032E-10	2.186E-10	1.651E-10	1.292E-10
WNW	1.112E-09	1.301E-09	2.604E-09	3.251E-09	1.799E-09	9.518E-10	5.812E-10	3.988E-10	3.371E-10	2.690E-10	2.274E-10
NW	1.198E-09	1.820E-09	2.798E-09	6.441E-09	4.264E-09	2.131E-09	1.269E-09	8.550E-10	6.323E-10	5.031E-10	4.245E-10
NNW	4.768E-10	1.518E-09	2.963E-09	3.007E-09	3.686E-09	2.006E-09	1.243E-09	1.058E-09	7.869E-10	6.299E-10	5.353E-10
N	9.377E-10	1.599E-09	2.596E-09	2.504E-09	1.513E-09	1.005E-09	7.063E-10	5.176E-10	3.916E-10	3.038E-10	2.406E-10
NNE	4.323E-11	2.593E-10	5.522E-10	5.720E-10	3.573E-10	2.396E-10	1.692E-10	1.243E-10	9.414E-11	7.307E-11	5.787E-11
NE	2.358E-11	1.415E-10	3.012E-10	3.120E-10	1.949E-10	1.307E-10	9.230E-11	6.780E-11	5.135E-11	3.986E-11	3.156E-11
ENE	2.096E-11	1.257E-10	2.677E-10	2.773E-10	1.732E-10	1.162E-10	8.204E-11	6.027E-11	4.565E-11	3.543E-11	2.806E-11
E	2.096E-11	1.257E-10	2.677E-10	2.773E-10	1.732E-10	1.162E-10	8.204E-11	6.027E-11	4.565E-11	3.543E-11	2.806E-11
ESE	2.894E-10	3.941E-10	5.697E-10	5.283E-10	3.132E-10	2.066E-10	1.448E-10	1.060E-10	8.012E-11	6.214E-11	4.921E-11
SE	2.881E-10	3.862E-10	5.530E-10	5.110E-10	3.024E-10	1.993E-10	1.397E-10	1.022E-10	7.727E-11	5.993E-11	4.746E-11
SSE	1.840E-09	1.642E-09	1.612E-09	1.237E-09	6.549E-10	4.154E-10	2.857E-10	2.070E-10	1.558E-10	1.206E-10	9.546E-11

DIRECTION FROM SITE	5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
	DISTANCES IN MILES										
S	1.523E-10	1.216E-10	8.583E-11	5.131E-11	3.291E-11	2.156E-11	1.547E-11	1.161E-11	9.120E-12	7.266E-12	5.940E-12
SSW	4.978E-11	6.918E-11	5.349E-11	3.430E-11	1.780E-11	1.233E-11	8.853E-12	6.663E-12	5.201E-12	4.154E-12	3.391E-12
SW	4.013E-11	4.956E-11	3.763E-11	2.374E-11	1.536E-11	9.858E-12	6.329E-12	4.752E-12	3.695E-12	2.952E-12	2.409E-12
WSW	6.690E-11	7.777E-11	5.859E-11	3.407E-11	2.062E-11	1.382E-11	1.018E-11	7.643E-12	5.943E-12	4.747E-12	3.875E-12
W	1.039E-10	4.668E-11	6.940E-11	4.699E-11	2.737E-11	1.877E-11	1.345E-11	1.010E-11	7.854E-12	6.274E-12	5.121E-12
WNW	2.067E-10	1.367E-10	1.019E-10	6.323E-11	4.052E-11	2.680E-11	1.721E-11	1.292E-11	1.030E-11	8.228E-12	6.716E-12
NW	3.762E-10	2.459E-10	1.819E-10	1.110E-10	6.875E-11	4.585E-11	3.173E-11	2.382E-11	1.864E-11	1.489E-11	1.215E-11
NNW	4.779E-10	3.188E-10	2.379E-10	1.478E-10	9.462E-11	6.259E-11	4.246E-11	3.061E-11	2.380E-11	1.901E-11	1.552E-11
N	1.938E-10	9.183E-11	5.601E-11	2.947E-11	8.610E-11	5.090E-11	3.647E-11	2.739E-11	2.130E-11	1.701E-11	1.389E-11
NNE	4.661E-11	9.812E-11	6.189E-11	3.279E-11	2.013E-11	1.345E-11	9.582E-12	7.147E-12	5.527E-12	4.395E-12	3.574E-12
NE	2.542E-11	5.287E-11	3.320E-11	1.754E-11	1.076E-11	7.193E-12	5.372E-12	3.972E-12	3.088E-12	2.506E-12	2.046E-12
ENE	2.260E-11	3.172E-11	2.377E-11	1.481E-11	9.489E-12	6.275E-12	4.397E-12	2.888E-12	2.246E-12	1.796E-12	1.467E-12
E	2.260E-11	2.695E-11	1.966E-11	1.200E-11	7.657E-12	5.072E-12	3.560E-12	2.610E-12	1.993E-12	1.584E-12	1.282E-12
ESE	3.965E-11	3.948E-11	2.788E-11	1.659E-11	1.054E-11	7.005E-12	4.943E-12	3.645E-12	2.793E-12	2.207E-12	1.785E-12
SE	3.824E-11	1.813E-11	1.106E-11	5.824E-12	3.585E-12	2.499E-12	1.914E-12	4.064E-12	3.158E-12	2.533E-12	2.090E-12
SSE	7.701E-11	1.042E-10	6.634E-11	3.551E-11	2.187E-11	1.460E-11	1.039E-11	7.736E-12	5.974E-12	4.745E-12	3.855E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
	SEGMENT BOUNDARIES IN MILES									
S	3.182E-09	1.250E-09	4.940E-10	2.658E-10	1.808E-10	1.125E-10	5.080E-11	2.215E-11	1.176E-11	7.324E-12
SSW	1.732E-09	5.220E-10	1.758E-10	9.800E-11	6.166E-11	5.790E-11	3.123E-11	1.240E-11	6.732E-12	4.182E-12
SW	8.182E-10	4.159E-10	1.691E-10	8.250E-11	4.923E-11	4.216E-11	2.310E-11	9.913E-12	4.800E-12	2.971E-12
WSW	1.311E-09	8.231E-10	2.981E-10	1.429E-10	8.394E-11	6.683E-11	3.354E-11	1.418E-11	7.720E-12	4.778E-12
W	3.979E-09	1.433E-09	4.648E-10	2.224E-10	1.304E-10	6.948E-11	4.325E-11	1.894E-11	1.020E-11	6.315E-12
WNW	2.602E-09	1.745E-09	6.071E-10	3.288E-10	2.321E-10	1.368E-10	6.174E-11	2.662E-11	1.314E-11	8.282E-12
NW	4.200E-09	3.800E-09	1.333E-09	6.467E-10	4.299E-10	2.464E-10	1.080E-10	4.631E-11	2.411E-11	1.499E-11
NNW	2.661E-09	2.788E-09	1.372E-09	8.046E-10	5.421E-10	3.182E-10	1.442E-10	6.308E-11	3.140E-11	1.913E-11
N	2.333E-09	1.507E-09	7.103E-10	3.941E-10	2.420E-10	9.857E-11	6.054E-11	5.451E-11	2.766E-11	1.712E-11
NNE	4.959E-10	3.527E-10	1.700E-10	9.473E-11	5.820E-11	7.057E-11	3.363E-11	1.368E-11	7.226E-12	4.426E-12
NE	2.705E-10	1.924E-10	9.273E-11	5.167E-11	3.175E-11	3.803E-11	1.801E-11	7.416E-12	4.036E-12	2.508E-12
ENE	2.404E-10	1.710E-10	8.243E-11	4.593E-11	2.822E-11	2.616E-11	1.444E-11	6.381E-12	3.075E-12	1.807E-12
E	2.404E-10	1.710E-10	8.243E-11	4.593E-11	2.822E-11	2.274E-11	1.177E-11	5.157E-12	2.646E-12	1.593E-12
ESE	5.123E-10	3.136E-10	1.458E-10	8.066E-11	4.950E-11	3.436E-11	1.641E-11	7.122E-12	3.691E-12	2.224E-12
SE	4.973E-10	3.029E-10	1.406E-10	7.779E-11	4.774E-11	1.946E-11	5.993E-12	2.555E-12	3.105E-12	2.554E-12
SSE	1.452E-09	6.778E-10	2.888E-10	1.570E-10	9.606E-11	8.131E-11	3.630E-11	1.485E-11	7.822E-12	4.779E-12

ERP ELEVATED STACK RELEASES - JUL-SEP 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.26 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.0 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	1.2E-07	1.2E-07	1.1E-07	3.3E-09
A	Site Boundary	SSW	.82	8.0E-08	8.0E-08	7.8E-08	1.6E-09
A	Site Boundary	SW	.97	6.0E-08	6.0E-08	5.9E-08	6.6E-10
A	Site Boundary	WSW	.93	1.1E-07	1.1E-07	1.1E-07	1.1E-09
A	Site Boundary	W	.91	4.2E-07	4.2E-07	4.1E-07	3.2E-09
A	Site Boundary	WNW	.94	3.7E-07	3.7E-07	3.7E-07	3.6E-09
A	Site Boundary	NW	.81	2.5E-07	2.5E-07	2.5E-07	2.9E-09
A	Site Boundary	NNW	.69	5.1E-08	5.1E-08	5.1E-08	2.6E-09
A	Site Boundary	N	.67	2.7E-08	2.7E-08	2.6E-08	2.3E-09
A	Site Boundary	NNE	.60	2.4E-09	2.4E-09	2.4E-09	3.7E-10
A	Site Boundary	NE	.62	1.9E-09	1.9E-09	1.9E-09	2.2E-10
A	Site Boundary	ENE	.59	9.9E-10	9.9E-10	9.9E-10	1.7E-10
A	Site Boundary	E	.53	3.3E-10	3.3E-10	3.3E-10	1.4E-10
A	Site Boundary	ESE	.54	3.4E-09	3.4E-09	3.4E-09	4.2E-10
A	Site Boundary	SE	.65	5.4E-09	5.4E-09	5.4E-09	4.8E-10
A	Site Boundary	SSE	.81	3.3E-08	3.3E-08	3.3E-08	1.5E-09
A	Nearest Res	SW	1.30	9.6E-08	9.6E-08	9.5E-08	6.4E-10
A	Nearest Res	WSW	1.90	1.9E-07	1.9E-07	1.8E-07	5.2E-10
A	Nearest Res	WNW	2.50	3.2E-07	3.2E-07	3.2E-07	5.8E-10
A	Nearest Res	NW	1.20	7.8E-07	7.8E-07	7.7E-07	4.7E-09
A	Nearest Res	NNW	2.00	3.4E-07	3.4E-07	3.4E-07	2.0E-09
A	Nearest Res	NE	1.70	1.8E-08	1.8E-08	1.8E-08	1.6E-10
A	Nearest Res	E	1.90	1.7E-08	1.7E-08	1.7E-08	1.3E-10
A	Nearest Cow	NNW	3.50	2.8E-07	2.8E-07	2.8E-07	7.9E-10
A	Nearest Garde	SW	2.20	7.7E-08	7.6E-08	7.5E-08	2.1E-10
A	Nearest Garde	WSW	2.50	1.2E-07	1.2E-07	1.2E-07	2.9E-10
A	Nearest Garde	WNW	2.70	2.9E-07	2.9E-07	2.9E-07	4.9E-10
A	Nearest Garde	NNW	2.70	3.2E-07	3.2E-07	3.1E-07	1.2E-09
A	Nearest Garde	ENE	1.70	1.3E-08	1.3E-08	1.3E-08	1.5E-10
A	Nearest Garde	E	1.90	1.7E-08	1.7E-08	1.7E-08	1.3E-10
A	Nearest Garde	ESE	2.20	2.5E-08	2.5E-08	2.4E-08	1.8E-10
A	Nearest Garde	SE	1.90	2.4E-08	2.3E-08	2.3E-08	2.2E-10
A	MAXIMUM CHI/Q	S	.75	1.2E-07	1.2E-07	1.2E-07	3.5E-09
A	MAXIMUM CHI/Q	SSW	.75	8.7E-08	8.7E-08	8.5E-08	1.9E-09
A	MAXIMUM CHI/Q	SW	1.50	1.2E-07	1.2E-07	1.1E-07	4.8E-10
A	MAXIMUM CHI/Q	WSW	1.50	2.6E-07	2.6E-07	2.6E-07	8.6E-10
A	MAXIMUM CHI/Q	W	1.00	4.4E-07	4.4E-07	4.3E-07	3.0E-09
A	MAXIMUM CHI/Q	WNW	1.50	7.0E-07	6.9E-07	6.9E-07	1.8E-09
A	MAXIMUM CHI/Q	NW	1.50	1.1E-06	1.1E-06	1.1E-06	4.3E-09
A	MAXIMUM CHI/Q	NNW	2.00	3.4E-07	3.4E-07	3.4E-07	2.0E-09
A	MAXIMUM CHI/Q	N	1.50	8.8E-08	8.8E-08	8.7E-08	1.5E-09
A	MAXIMUM CHI/Q	NNE	1.50	2.8E-08	2.7E-08	2.7E-08	3.6E-10
A	MAXIMUM CHI/Q	NE	1.50	1.8E-08	1.8E-08	1.8E-08	1.9E-10
A	MAXIMUM CHI/Q	ENE	1.50	1.3E-08	1.3E-08	1.3E-08	1.7E-10
A	MAXIMUM CHI/Q	E	1.50	1.7E-08	1.7E-08	1.7E-08	1.7E-10
A	MAXIMUM CHI/Q	ESE	1.50	2.7E-08	2.7E-08	2.7E-08	3.1E-10
A	MAXIMUM CHI/Q	SE	1.50	2.4E-08	2.4E-08	2.4E-08	3.0E-10
A	MAXIMUM CHI/Q	SSE	1.50	4.0E-08	4.0E-08	4.0E-08	6.5E-10

Atmospheric Diffusion Estimates

Elevated Releases

October-December 2025

B306

ERP ELEVATED STACK RELEASES - OCT-DEC 2025
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.962E-09	3.196E-08	6.618E-08	8.344E-08	8.820E-08	7.640E-08	6.350E-08	5.279E-08	4.442E-08	5.104E-08	5.600E-08
SSW	1.536E-10	9.742E-09	2.588E-08	3.486E-08	3.750E-08	3.219E-08	2.645E-08	2.727E-08	2.645E-08	2.254E-08	1.957E-08
SW	3.843E-16	4.096E-10	1.547E-08	4.093E-08	7.146E-08	4.957E-08	3.650E-08	2.825E-08	2.272E-08	1.883E-08	1.599E-08
WSW	6.197E-17	1.632E-10	1.186E-08	4.494E-08	1.092E-07	7.401E-08	5.409E-08	4.187E-08	3.381E-08	2.817E-08	2.406E-08
W	1.827E-13	2.935E-08	1.668E-07	2.274E-07	2.127E-07	1.320E-07	9.005E-08	6.577E-08	5.048E-08	4.020E-08	3.295E-08
WNW	3.527E-14	1.272E-08	1.937E-07	3.542E-07	4.299E-07	2.620E-07	1.776E-07	1.353E-07	1.074E-07	8.505E-08	6.943E-08
NW	1.241E-15	1.372E-09	8.175E-08	2.458E-07	4.310E-07	2.563E-07	1.715E-07	1.270E-07	9.901E-08	7.850E-08	6.420E-08
NNW	1.059E-10	6.638E-09	3.835E-08	8.085E-08	1.373E-07	1.459E-07	1.458E-07	1.410E-07	1.369E-07	1.092E-07	8.984E-08
N	3.770E-09	1.789E-08	3.502E-08	4.692E-08	5.352E-08	4.982E-08	4.350E-08	3.680E-08	3.141E-08	2.713E-08	2.372E-08
NNE	5.324E-16	4.969E-10	8.341E-09	1.691E-08	2.330E-08	2.237E-08	1.977E-08	1.717E-08	1.494E-08	1.310E-08	1.160E-08
NE	5.056E-16	5.798E-10	1.046E-08	2.182E-08	3.030E-08	2.883E-08	2.522E-08	2.171E-08	1.874E-08	1.633E-08	1.439E-08
ENE	4.590E-16	5.121E-10	9.226E-09	1.942E-08	2.757E-08	2.674E-08	2.373E-08	2.064E-08	1.796E-08	1.573E-08	1.391E-08
E	2.490E-16	3.490E-10	6.508E-09	1.369E-08	1.929E-08	1.862E-08	1.648E-08	1.431E-08	1.244E-08	1.090E-08	9.632E-09
ESE	8.746E-16	6.375E-10	9.767E-09	1.861E-08	2.340E-08	2.114E-08	1.792E-08	1.510E-08	1.285E-08	1.107E-08	9.668E-09
SE	2.556E-15	1.531E-09	2.233E-08	4.193E-08	5.250E-08	4.759E-08	4.047E-08	3.416E-08	2.907E-08	2.503E-08	2.182E-08
SSE	2.819E-15	1.983E-09	2.957E-08	5.560E-08	6.904E-08	6.203E-08	5.237E-08	4.398E-08	3.728E-08	3.201E-08	2.787E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	5.014E-08	3.509E-08	2.298E-08	1.331E-08	9.507E-09	7.289E-09	5.695E-09	4.626E-09	3.911E-09	3.367E-09	2.924E-09
SSW	1.777E-08	1.473E-08	9.674E-09	5.635E-09	4.205E-09	3.240E-09	2.535E-09	2.064E-09	1.735E-09	1.484E-09	1.291E-09
SW	1.535E-08	1.581E-08	1.083E-08	6.656E-09	5.188E-09	4.221E-09	3.583E-09	2.950E-09	2.489E-09	2.144E-09	1.877E-09
WSW	2.277E-08	2.116E-08	1.797E-08	1.340E-08	9.325E-09	7.051E-09	5.645E-09	4.651E-09	3.934E-09	3.396E-09	2.978E-09
W	2.764E-08	1.468E-08	9.994E-09	6.021E-09	4.186E-09	3.056E-09	2.360E-09	1.899E-09	1.573E-09	1.334E-09	1.151E-09
WNW	5.865E-08	3.216E-08	2.151E-08	1.275E-08	8.633E-09	6.385E-09	5.001E-09	4.058E-09	3.379E-09	2.875E-09	2.490E-09
NW	5.445E-08	3.050E-08	2.095E-08	1.287E-08	8.692E-09	6.426E-09	5.136E-09	4.205E-09	3.520E-09	3.007E-09	2.613E-09
NNW	7.789E-08	4.670E-08	3.078E-08	1.804E-08	1.239E-08	9.272E-09	7.414E-09	6.136E-09	5.267E-09	4.548E-09	3.969E-09
N	2.102E-08	1.336E-08	1.115E-08	9.514E-09	8.752E-09	7.599E-09	6.019E-09	4.921E-09	4.130E-09	3.540E-09	3.086E-09
NNE	1.316E-08	2.607E-08	1.718E-08	1.008E-08	6.926E-09	5.189E-09	4.104E-09	3.369E-09	2.841E-09	2.446E-09	2.140E-09
NE	1.597E-08	3.462E-08	2.288E-08	1.347E-08	9.287E-09	6.972E-09	5.621E-09	4.674E-09	3.994E-09	3.440E-09	3.008E-09
ENE	1.500E-08	2.125E-08	1.411E-08	8.325E-09	5.730E-09	4.293E-09	3.567E-09	3.020E-09	2.536E-09	2.175E-09	1.896E-09
E	1.043E-08	1.574E-08	1.046E-08	6.181E-09	4.260E-09	3.194E-09	2.527E-09	2.074E-09	1.814E-09	1.602E-09	1.398E-09
ESE	1.006E-08	1.385E-08	9.313E-09	5.578E-09	3.876E-09	2.922E-09	2.321E-09	1.911E-09	1.615E-09	1.393E-09	1.220E-09
SE	1.924E-08	1.196E-08	9.395E-09	7.040E-09	5.326E-09	4.344E-09	3.713E-09	3.269E-09	2.762E-09	2.381E-09	2.085E-09
SSE	2.998E-08	5.459E-08	3.601E-08	2.115E-08	1.455E-08	1.091E-08	8.634E-09	7.090E-09	5.981E-09	5.151E-09	4.508E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.624E-08	8.190E-08	6.266E-08	4.934E-08	5.236E-08	3.305E-08	1.377E-08	7.243E-09	4.659E-09	3.364E-09
SSW	2.628E-08	3.455E-08	2.831E-08	2.519E-08	1.978E-08	1.316E-08	5.897E-09	3.215E-09	2.073E-09	1.487E-09
SW	2.344E-08	5.495E-08	3.668E-08	2.282E-08	1.659E-08	1.350E-08	6.932E-09	4.224E-09	2.955E-09	2.147E-09
WSW	2.396E-08	7.929E-08	5.452E-08	3.397E-08	2.480E-08	2.010E-08	1.261E-08	7.095E-09	4.662E-09	3.401E-09
W	1.632E-07	1.801E-07	9.152E-08	5.093E-08	3.313E-08	1.548E-08	6.089E-09	3.079E-09	1.907E-09	1.337E-09
WNW	2.248E-07	3.384E-07	1.832E-07	1.069E-07	7.006E-08	3.332E-08	1.287E-08	6.431E-09	4.069E-09	2.882E-09
NW	1.368E-07	3.122E-07	1.763E-07	9.921E-08	6.483E-08	3.158E-08	1.281E-08	6.514E-09	4.210E-09	3.013E-09
NNW	5.019E-08	1.286E-07	1.439E-07	1.275E-07	9.116E-08	4.655E-08	1.836E-08	9.360E-09	6.170E-09	4.547E-09
N	3.650E-08	5.041E-08	4.251E-08	3.132E-08	2.373E-08	1.408E-08	9.539E-09	7.274E-09	4.933E-09	3.546E-09
NNE	1.041E-08	2.147E-08	1.942E-08	1.488E-08	1.262E-08	1.925E-08	1.025E-08	5.218E-09	3.378E-09	2.449E-09
NE	1.331E-08	2.776E-08	2.478E-08	1.867E-08	1.555E-08	2.526E-08	1.370E-08	7.049E-09	4.685E-09	3.444E-09
ENE	1.182E-08	2.539E-08	2.330E-08	1.787E-08	1.485E-08	1.669E-08	8.457E-09	4.386E-09	2.992E-09	2.179E-09
E	8.329E-09	1.775E-08	1.619E-08	1.239E-08	1.030E-08	1.221E-08	6.278E-09	3.211E-09	2.104E-09	1.589E-09
ESE	1.167E-08	2.133E-08	1.765E-08	1.282E-08	1.023E-08	1.099E-08	5.652E-09	2.936E-09	1.915E-09	1.395E-09
SE	2.642E-08	4.797E-08	3.985E-08	2.899E-08	2.182E-08	1.244E-08	6.801E-09	4.353E-09	3.202E-09	2.384E-09
SSE	3.501E-08	6.294E-08	5.159E-08	3.719E-08	2.988E-08	4.086E-08	2.152E-08	1.097E-08	7.109E-09	5.159E-09

ERP ELEVATED STACK RELEASES - OCT-DEC 2025
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.960E-09	3.193E-08	6.611E-08	8.332E-08	8.798E-08	7.613E-08	6.320E-08	5.248E-08	4.411E-08	5.060E-08	5.542E-08
SSW	1.536E-10	9.737E-09	2.586E-08	3.480E-08	3.740E-08	3.208E-08	2.632E-08	2.710E-08	2.625E-08	2.234E-08	1.937E-08
SW	3.842E-16	4.093E-10	1.545E-08	4.087E-08	7.130E-08	4.941E-08	3.636E-08	2.811E-08	2.259E-08	1.870E-08	1.586E-08
WSW	6.194E-17	1.630E-10	1.183E-08	4.480E-08	1.087E-07	7.355E-08	5.364E-08	4.143E-08	3.337E-08	2.773E-08	2.362E-08
W	1.826E-13	2.932E-08	1.666E-07	2.268E-07	2.119E-07	1.313E-07	8.945E-08	6.524E-08	4.999E-08	3.975E-08	3.253E-08
WNW	3.526E-14	1.271E-08	1.935E-07	3.537E-07	4.289E-07	2.611E-07	1.769E-07	1.346E-07	1.068E-07	8.448E-08	6.890E-08
NW	1.241E-15	1.372E-09	8.166E-08	2.454E-07	4.299E-07	2.554E-07	1.707E-07	1.263E-07	9.834E-08	7.788E-08	6.362E-08
NNW	1.059E-10	6.635E-09	3.832E-08	8.074E-08	1.370E-07	1.455E-07	1.453E-07	1.404E-07	1.361E-07	1.086E-07	8.921E-08
N	3.769E-09	1.789E-08	3.500E-08	4.687E-08	5.342E-08	4.970E-08	4.336E-08	3.666E-08	3.127E-08	2.699E-08	2.358E-08
NNE	5.323E-16	4.966E-10	8.331E-09	1.688E-08	2.324E-08	2.229E-08	1.968E-08	1.707E-08	1.484E-08	1.300E-08	1.150E-08
NE	5.055E-16	5.794E-10	1.044E-08	2.178E-08	3.020E-08	2.870E-08	2.507E-08	2.155E-08	1.858E-08	1.617E-08	1.422E-08
ENE	4.589E-16	5.117E-10	9.214E-09	1.938E-08	2.748E-08	2.661E-08	2.357E-08	2.047E-08	1.778E-08	1.555E-08	1.372E-08
E	2.489E-16	3.487E-10	6.499E-09	1.366E-08	1.922E-08	1.854E-08	1.639E-08	1.421E-08	1.233E-08	1.078E-08	9.520E-09
ESE	8.745E-16	6.372E-10	9.759E-09	1.859E-08	2.336E-08	2.109E-08	1.787E-08	1.505E-08	1.279E-08	1.102E-08	9.614E-09
SE	2.556E-15	1.530E-09	2.232E-08	4.188E-08	5.241E-08	4.747E-08	4.033E-08	3.402E-08	2.893E-08	2.489E-08	2.167E-08
SSE	2.819E-15	1.982E-09	2.955E-08	5.554E-08	6.892E-08	6.188E-08	5.221E-08	4.381E-08	3.711E-08	3.184E-08	2.770E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.954E-08	3.433E-08	2.230E-08	1.271E-08	8.919E-09	6.715E-09	5.163E-09	4.129E-09	3.434E-09	2.909E-09	2.489E-09
SSW	1.755E-08	1.433E-08	9.308E-09	5.307E-09	3.854E-09	2.892E-09	2.216E-09	1.766E-09	1.452E-09	1.218E-09	1.040E-09
SW	1.520E-08	1.538E-08	1.041E-08	6.251E-09	4.732E-09	3.739E-09	3.073E-09	2.469E-09	2.036E-09	1.716E-09	1.471E-09
WSW	2.226E-08	2.019E-08	1.673E-08	1.189E-08	7.958E-09	5.793E-09	4.463E-09	3.550E-09	2.903E-09	2.425E-09	2.061E-09
W	2.724E-08	1.436E-08	9.701E-09	5.762E-09	3.952E-09	2.847E-09	2.170E-09	1.724E-09	1.412E-09	1.182E-09	1.008E-09
WNW	5.816E-08	3.175E-08	2.115E-08	1.243E-08	8.347E-09	6.121E-09	4.755E-09	3.827E-09	3.161E-09	2.668E-09	2.291E-09
NW	5.389E-08	2.999E-08	2.045E-08	1.236E-08	8.240E-09	6.013E-09	4.734E-09	3.821E-09	3.156E-09	2.664E-09	2.287E-09
NNW	7.729E-08	4.615E-08	3.030E-08	1.762E-08	1.201E-08	8.922E-09	7.082E-09	5.819E-09	4.957E-09	4.250E-09	3.683E-09
N	2.089E-08	1.323E-08	1.101E-08	9.342E-09	8.542E-09	7.371E-09	5.803E-09	4.717E-09	3.935E-09	3.353E-09	2.906E-09
NNE	1.303E-08	2.548E-08	1.666E-08	9.617E-09	6.510E-09	4.805E-09	3.745E-09	3.031E-09	2.521E-09	2.142E-09	1.849E-09
NE	1.577E-08	3.387E-08	2.222E-08	1.290E-08	8.765E-09	6.492E-09	5.161E-09	4.233E-09	3.565E-09	3.031E-09	2.619E-09
ENE	1.478E-08	2.071E-08	1.362E-08	7.890E-09	5.334E-09	3.927E-09	3.198E-09	2.654E-09	2.192E-09	1.850E-09	1.588E-09
E	1.030E-08	1.547E-08	1.022E-08	5.973E-09	4.072E-09	3.022E-09	2.365E-09	1.922E-09	1.665E-09	1.456E-09	1.258E-09
ESE	1.000E-08	1.369E-08	9.168E-09	5.447E-09	3.754E-09	2.808E-09	2.212E-09	1.807E-09	1.515E-09	1.296E-09	1.126E-09
SE	1.909E-08	1.182E-08	9.241E-09	6.857E-09	5.132E-09	4.135E-09	3.488E-09	3.027E-09	2.529E-09	2.157E-09	1.869E-09
SSE	2.977E-08	5.297E-08	3.456E-08	1.986E-08	1.337E-08	9.815E-09	7.607E-09	6.122E-09	5.065E-09	4.279E-09	3.676E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.616E-08	8.168E-08	6.236E-08	4.898E-08	5.181E-08	3.237E-08	1.316E-08	6.682E-09	4.160E-09	2.909E-09
SSW	2.625E-08	3.446E-08	2.817E-08	2.500E-08	1.958E-08	1.281E-08	5.550E-09	2.878E-09	1.775E-09	1.221E-09
SW	2.341E-08	5.481E-08	3.654E-08	2.269E-08	1.646E-08	1.313E-08	6.501E-09	3.737E-09	2.477E-09	1.720E-09
WSW	2.389E-08	7.888E-08	5.406E-08	3.352E-08	2.434E-08	1.911E-08	1.122E-08	5.838E-09	3.564E-09	2.432E-09
W	1.629E-07	1.794E-07	9.092E-08	5.044E-08	3.271E-08	1.515E-08	5.833E-09	2.871E-09	1.733E-09	1.186E-09
WNW	2.245E-07	3.376E-07	1.824E-07	1.062E-07	6.954E-08	3.291E-08	1.255E-08	6.168E-09	3.838E-09	2.675E-09
NW	1.366E-07	3.113E-07	1.755E-07	9.854E-08	6.424E-08	3.106E-08	1.233E-08	6.095E-09	3.828E-09	2.670E-09
NNW	5.013E-08	1.283E-07	1.434E-07	1.268E-07	9.052E-08	4.602E-08	1.795E-08	9.010E-09	5.852E-09	4.249E-09
N	3.647E-08	5.031E-08	4.237E-08	3.118E-08	2.359E-08	1.395E-08	9.358E-09	7.056E-09	4.729E-09	3.360E-09
NNE	1.039E-08	2.140E-08	1.933E-08	1.477E-08	1.251E-08	1.879E-08	9.800E-09	4.836E-09	3.041E-09	2.146E-09
NE	1.329E-08	2.766E-08	2.463E-08	1.851E-08	1.537E-08	2.467E-08	1.313E-08	6.566E-09	4.244E-09	3.037E-09
ENE	1.180E-08	2.529E-08	2.314E-08	1.770E-08	1.466E-08	1.624E-08	8.028E-09	4.010E-09	2.634E-09	1.854E-09
E	8.314E-09	1.768E-08	1.609E-08	1.228E-08	1.018E-08	1.199E-08	6.072E-09	3.039E-09	1.951E-09	1.445E-09
ESE	1.166E-08	2.129E-08	1.760E-08	1.276E-08	1.017E-08	1.086E-08	5.522E-09	2.822E-09	1.811E-09	1.298E-09
SE	2.639E-08	4.788E-08	3.971E-08	2.884E-08	2.167E-08	1.229E-08	6.620E-09	4.142E-09	2.969E-09	2.160E-09
SSE	3.497E-08	6.282E-08	5.143E-08	3.702E-08	2.969E-08	3.963E-08	2.024E-08	9.880E-09	6.144E-09	4.289E-09

ERP ELEVATED STACK RELEASES - OCT-DEC 2025
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.962E-09	3.168E-08	6.530E-08	8.257E-08	8.689E-08	7.472E-08	6.163E-08	5.088E-08	4.254E-08	4.881E-08	5.357E-08
SSW	1.536E-10	9.660E-09	2.557E-08	3.453E-08	3.695E-08	3.146E-08	2.563E-08	2.625E-08	2.531E-08	2.143E-08	1.851E-08
SW	3.843E-16	4.095E-10	1.546E-08	4.091E-08	7.071E-08	4.866E-08	3.563E-08	2.746E-08	2.201E-08	1.819E-08	1.540E-08
WSW	6.196E-17	1.632E-10	1.185E-08	4.489E-08	1.083E-07	7.292E-08	5.303E-08	4.089E-08	3.291E-08	2.735E-08	2.330E-08
W	1.827E-13	2.934E-08	1.659E-07	2.248E-07	2.084E-07	1.282E-07	8.687E-08	6.305E-08	4.812E-08	3.814E-08	3.112E-08
WNW	3.526E-14	1.272E-08	1.934E-07	3.509E-07	4.218E-07	2.546E-07	1.713E-07	1.299E-07	1.027E-07	8.086E-08	6.561E-08
NW	1.241E-15	1.372E-09	8.172E-08	2.448E-07	4.253E-07	2.506E-07	1.666E-07	1.228E-07	9.529E-08	7.516E-08	6.111E-08
NNW	1.059E-10	6.586E-09	3.812E-08	8.060E-08	1.361E-07	1.439E-07	1.436E-07	1.388E-07	1.347E-07	1.071E-07	8.771E-08
N	3.769E-09	1.774E-08	3.463E-08	4.656E-08	5.287E-08	4.893E-08	4.248E-08	3.575E-08	3.038E-08	2.613E-08	2.276E-08
NNE	5.324E-16	4.968E-10	8.338E-09	1.690E-08	2.309E-08	2.201E-08	1.933E-08	1.670E-08	1.446E-08	1.263E-08	1.114E-08
NE	5.056E-16	5.797E-10	1.045E-08	2.181E-08	3.002E-08	2.832E-08	2.458E-08	2.102E-08	1.804E-08	1.564E-08	1.371E-08
ENE	4.590E-16	5.120E-10	9.223E-09	1.940E-08	2.732E-08	2.628E-08	2.316E-08	2.002E-08	1.732E-08	1.510E-08	1.329E-08
E	2.490E-16	3.489E-10	6.505E-09	1.368E-08	1.911E-08	1.831E-08	1.610E-08	1.390E-08	1.202E-08	1.048E-08	9.224E-09
ESE	8.746E-16	6.374E-10	9.764E-09	1.860E-08	2.319E-08	2.078E-08	1.748E-08	1.464E-08	1.238E-08	1.062E-08	9.228E-09
SE	2.556E-15	1.531E-09	2.233E-08	4.192E-08	5.203E-08	4.678E-08	3.948E-08	3.312E-08	2.802E-08	2.401E-08	2.083E-08
SSE	2.819E-15	1.983E-09	2.957E-08	5.558E-08	6.841E-08	6.094E-08	5.106E-08	4.259E-08	3.589E-08	3.065E-08	2.655E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.782E-08	3.288E-08	2.082E-08	1.128E-08	7.478E-09	5.379E-09	3.984E-09	3.084E-09	2.501E-09	2.081E-09	1.751E-09
SSW	1.674E-08	1.372E-08	8.709E-09	4.743E-09	3.289E-09	2.413E-09	1.813E-09	1.421E-09	1.153E-09	9.544E-10	8.051E-10
SW	1.480E-08	1.512E-08	9.993E-09	5.689E-09	4.053E-09	3.053E-09	2.465E-09	1.949E-09	1.585E-09	1.318E-09	1.117E-09
WSW	2.203E-08	2.011E-08	1.646E-08	1.148E-08	7.561E-09	5.448E-09	4.173E-09	3.301E-09	2.689E-09	2.240E-09	1.899E-09
W	2.598E-08	1.356E-08	9.042E-09	5.133E-09	3.367E-09	2.360E-09	1.758E-09	1.368E-09	1.100E-09	9.067E-10	7.619E-10
WNW	5.510E-08	2.928E-08	1.896E-08	1.051E-08	6.612E-09	4.630E-09	3.488E-09	2.733E-09	2.205E-09	1.821E-09	1.534E-09
NW	5.154E-08	2.798E-08	1.859E-08	1.071E-08	6.841E-09	4.823E-09	3.697E-09	2.921E-09	2.367E-09	1.962E-09	1.657E-09
NNW	7.567E-08	4.397E-08	2.796E-08	1.521E-08	9.570E-09	6.654E-09	5.000E-09	3.950E-09	3.274E-09	2.741E-09	2.323E-09
N	2.011E-08	1.263E-08	1.052E-08	9.014E-09	8.117E-09	6.730E-09	5.174E-09	4.117E-09	3.371E-09	2.824E-09	2.409E-09
NNE	1.266E-08	2.516E-08	1.599E-08	8.799E-09	5.690E-09	4.048E-09	3.059E-09	2.410E-09	1.957E-09	1.628E-09	1.378E-09
NE	1.523E-08	3.334E-08	2.127E-08	1.173E-08	7.573E-09	5.379E-09	4.149E-09	3.330E-09	2.755E-09	2.303E-09	1.959E-09
ENE	1.434E-08	2.036E-08	1.305E-08	7.163E-09	4.540E-09	3.170E-09	2.472E-09	1.990E-09	1.604E-09	1.324E-09	1.114E-09
E	9.993E-09	1.516E-08	9.739E-09	5.360E-09	3.404E-09	2.382E-09	1.773E-09	1.378E-09	1.146E-09	9.683E-10	8.146E-10
ESE	9.606E-09	1.333E-08	8.677E-09	4.855E-09	3.118E-09	2.199E-09	1.647E-09	1.286E-09	1.036E-09	8.540E-10	7.173E-10
SE	1.828E-08	1.119E-08	8.731E-09	6.513E-09	4.900E-09	3.983E-09	3.395E-09	2.968E-09	2.443E-09	2.057E-09	1.761E-09
SSE	2.857E-08	5.230E-08	3.324E-08	1.820E-08	1.164E-08	8.200E-09	6.140E-09	4.797E-09	3.865E-09	3.189E-09	2.681E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.551E-08	8.052E-08	6.082E-08	4.731E-08	5.003E-08	3.084E-08	1.171E-08	5.381E-09	3.119E-09	2.083E-09
SSW	2.602E-08	3.397E-08	2.744E-08	2.410E-08	1.872E-08	1.216E-08	4.978E-09	2.406E-09	1.431E-09	9.579E-10
SW	2.343E-08	5.429E-08	3.584E-08	2.211E-08	1.600E-08	1.277E-08	5.918E-09	3.084E-09	1.958E-09	1.323E-09
WSW	2.394E-08	7.848E-08	5.348E-08	3.307E-08	2.403E-08	1.891E-08	1.084E-08	5.502E-09	3.317E-09	2.247E-09
W	1.618E-07	1.764E-07	8.837E-08	4.858E-08	3.130E-08	1.431E-08	5.217E-09	2.388E-09	1.378E-09	9.104E-10
WNW	2.233E-07	3.318E-07	1.769E-07	1.021E-07	6.624E-08	3.043E-08	1.066E-08	4.702E-09	2.748E-09	1.828E-09
NW	1.363E-07	3.076E-07	1.715E-07	9.547E-08	6.173E-08	2.904E-08	1.074E-08	4.911E-09	2.932E-09	1.969E-09
NNW	4.999E-08	1.272E-07	1.418E-07	1.254E-07	8.900E-08	4.390E-08	1.554E-08	6.770E-09	3.993E-09	2.744E-09
N	3.618E-08	4.971E-08	4.151E-08	3.030E-08	2.278E-08	1.336E-08	8.951E-09	6.478E-09	4.135E-09	2.832E-09
NNE	1.040E-08	2.124E-08	1.899E-08	1.440E-08	1.215E-08	1.831E-08	9.015E-09	4.090E-09	2.423E-09	1.633E-09
NE	1.331E-08	2.744E-08	2.415E-08	1.798E-08	1.484E-08	2.395E-08	1.200E-08	5.472E-09	3.345E-09	2.309E-09
ENE	1.181E-08	2.510E-08	2.274E-08	1.724E-08	1.421E-08	1.577E-08	7.306E-09	3.256E-09	1.980E-09	1.329E-09
E	8.325E-09	1.755E-08	1.581E-08	1.197E-08	9.880E-09	1.160E-08	5.464E-09	2.411E-09	1.403E-09	9.641E-10
ESE	1.166E-08	2.110E-08	1.722E-08	1.235E-08	9.779E-09	1.044E-08	4.932E-09	2.223E-09	1.294E-09	8.572E-10
SE	2.641E-08	4.745E-08	3.888E-08	2.795E-08	2.083E-08	1.167E-08	6.289E-09	3.992E-09	2.890E-09	2.062E-09
SSE	3.500E-08	6.224E-08	5.031E-08	3.581E-08	2.852E-08	3.856E-08	1.863E-08	8.294E-09	4.826E-09	3.201E-09

ERP ELEVATED STACK RELEASES - OCT-DEC 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	3.304E-09	3.270E-09	3.642E-09	3.010E-09	1.673E-09	1.080E-09	7.492E-10	5.454E-10	4.112E-10	3.327E-10	3.042E-10
SSW	1.374E-09	1.347E-09	1.485E-09	1.221E-09	6.760E-10	4.359E-10	3.022E-10	2.199E-10	2.053E-10	1.553E-10	1.215E-10
SW	3.365E-11	2.019E-10	4.298E-10	4.452E-10	5.530E-10	3.008E-10	1.861E-10	1.262E-10	9.109E-11	6.884E-11	5.385E-11
WSW	1.643E-11	9.857E-11	2.099E-10	2.756E-10	2.677E-10	1.459E-10	9.040E-11	6.136E-11	4.433E-11	3.351E-11	2.622E-11
W	5.286E-11	2.637E-09	2.588E-09	1.813E-09	8.514E-10	4.636E-10	2.869E-10	1.946E-10	1.406E-10	1.062E-10	8.311E-11
WNW	1.562E-10	9.372E-10	7.053E-09	5.370E-09	3.370E-09	1.698E-09	1.007E-09	6.688E-10	4.942E-10	3.770E-10	3.035E-10
NW	1.132E-10	6.794E-10	1.447E-09	3.877E-09	2.597E-09	1.295E-09	7.676E-10	5.122E-10	3.739E-10	2.927E-10	2.427E-10
NNW	1.139E-09	1.314E-09	1.690E-09	1.497E-09	1.624E-09	8.837E-10	5.519E-10	4.794E-10	3.660E-10	3.024E-10	2.653E-10
N	2.724E-09	2.548E-09	2.657E-09	2.117E-09	1.150E-09	7.359E-10	5.085E-10	3.694E-10	2.782E-10	2.155E-10	1.706E-10
NNE	4.451E-11	2.670E-10	5.686E-10	5.889E-10	3.679E-10	2.467E-10	1.742E-10	1.280E-10	9.693E-11	7.523E-11	5.958E-11
NE	5.142E-11	3.085E-10	6.569E-10	6.804E-10	4.250E-10	2.850E-10	2.013E-10	1.479E-10	1.120E-10	8.692E-11	6.884E-11
ENE	4.604E-11	2.762E-10	5.881E-10	6.092E-10	3.805E-10	2.551E-10	1.802E-10	1.324E-10	1.003E-10	7.782E-11	6.163E-11
E	2.970E-11	1.782E-10	3.794E-10	3.930E-10	2.455E-10	1.646E-10	1.163E-10	8.541E-11	6.469E-11	5.021E-11	3.976E-11
ESE	6.057E-11	3.634E-10	7.737E-10	8.014E-10	5.006E-10	3.356E-10	2.371E-10	1.742E-10	1.319E-10	1.024E-10	8.108E-11
SE	1.629E-10	9.776E-10	2.082E-09	2.156E-09	1.347E-09	9.030E-10	6.378E-10	4.686E-10	3.549E-10	2.754E-10	2.181E-10
SSE	1.885E-10	1.131E-09	2.408E-09	2.494E-09	1.558E-09	1.045E-09	7.379E-10	5.421E-10	4.106E-10	3.187E-10	2.524E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	2.446E-10	1.626E-10	1.093E-10	6.247E-11	3.944E-11	2.972E-11	2.121E-11	1.585E-11	1.228E-11	9.766E-12	7.973E-12
SSW	9.839E-11	5.830E-11	3.788E-11	2.099E-11	1.497E-11	1.040E-11	7.454E-12	5.599E-12	4.403E-12	3.517E-12	2.871E-12
SW	4.329E-11	4.507E-11	3.328E-11	2.051E-11	1.310E-11	8.455E-12	5.795E-12	4.352E-12	3.384E-12	2.703E-12	2.206E-12
WSW	2.108E-11	3.602E-11	2.831E-11	1.593E-11	9.638E-12	6.464E-12	4.753E-12	3.569E-12	2.775E-12	2.217E-12	1.810E-12
W	6.681E-11	2.990E-11	4.202E-11	2.587E-11	1.582E-11	1.082E-11	7.756E-12	5.824E-12	4.528E-12	3.618E-12	2.953E-12
WNW	2.568E-10	1.451E-10	1.002E-10	5.850E-11	3.854E-11	2.598E-11	1.878E-11	1.410E-11	1.099E-11	8.777E-12	7.164E-12
NW	2.116E-10	1.318E-10	9.542E-11	5.749E-11	3.489E-11	2.338E-11	1.716E-11	1.288E-11	1.007E-11	8.041E-12	6.563E-12
NNW	2.436E-10	1.749E-10	1.344E-10	8.532E-11	5.494E-11	3.634E-11	2.373E-11	1.677E-11	1.290E-11	1.031E-11	8.412E-12
N	1.376E-10	6.537E-11	4.000E-11	2.122E-11	6.534E-11	3.778E-11	2.707E-11	2.033E-11	1.581E-11	1.263E-11	1.031E-11
NNE	4.798E-11	1.089E-10	6.733E-11	3.486E-11	2.126E-11	1.423E-11	1.017E-11	7.607E-12	5.899E-12	4.702E-12	3.831E-12
NE	5.544E-11	1.148E-10	7.309E-11	3.911E-11	2.408E-11	1.608E-11	1.111E-11	8.314E-12	6.463E-12	5.224E-12	4.264E-12
ENE	4.964E-11	7.114E-11	5.349E-11	3.340E-11	2.141E-11	1.416E-11	9.915E-12	6.621E-12	5.143E-12	4.105E-12	3.350E-12
E	3.202E-11	5.066E-11	3.860E-11	2.434E-11	1.563E-11	1.033E-11	7.222E-12	5.267E-12	3.996E-12	2.935E-12	2.387E-12
ESE	6.530E-11	7.733E-11	5.642E-11	3.444E-11	2.196E-11	1.454E-11	1.020E-11	7.477E-12	5.698E-12	4.476E-12	3.602E-12
SE	1.757E-10	8.318E-11	5.069E-11	2.663E-11	1.620E-11	1.114E-11	8.343E-12	1.811E-11	1.386E-11	1.093E-11	8.843E-12
SSE	2.032E-10	2.541E-10	1.587E-10	8.307E-11	5.081E-11	3.397E-11	2.423E-11	1.810E-11	1.401E-11	1.115E-11	9.072E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.279E-09	1.707E-09	7.559E-10	4.196E-10	2.906E-10	1.571E-10	6.264E-11	2.891E-11	1.603E-11	9.848E-12
SSW	1.337E-09	6.903E-10	3.049E-10	1.904E-10	1.230E-10	5.813E-11	2.207E-11	1.044E-11	5.673E-12	3.540E-12
SW	3.860E-10	4.170E-10	1.927E-10	9.264E-11	5.438E-11	3.944E-11	2.006E-11	8.631E-12	4.395E-12	2.721E-12
WSW	2.144E-10	2.153E-10	9.359E-11	4.507E-11	2.647E-11	2.927E-11	1.588E-11	6.626E-12	3.605E-12	2.231E-12
W	2.254E-09	8.927E-10	2.971E-10	1.429E-10	8.393E-11	4.349E-11	2.499E-11	1.093E-11	5.882E-12	3.641E-12
WNW	4.946E-09	3.071E-09	1.056E-09	4.995E-10	3.080E-10	1.500E-10	5.890E-11	2.645E-11	1.425E-11	8.834E-12
NW	2.356E-09	2.303E-09	8.062E-10	3.825E-10	2.460E-10	1.334E-10	5.587E-11	2.396E-11	1.303E-11	8.094E-12
NNW	1.521E-09	1.267E-09	6.114E-10	3.742E-10	2.682E-10	1.722E-10	8.272E-11	3.626E-11	1.729E-11	1.037E-11
N	2.393E-09	1.181E-09	5.135E-10	2.804E-10	1.717E-10	7.014E-11	4.500E-11	4.085E-11	2.053E-11	1.271E-11
NNE	5.106E-10	3.631E-10	1.750E-10	9.754E-11	5.992E-11	7.690E-11	3.603E-11	1.448E-11	7.687E-12	4.734E-12
NE	5.899E-10	4.195E-10	2.022E-10	1.127E-10	6.923E-11	8.308E-11	3.998E-11	1.622E-11	8.408E-12	5.235E-12
ENE	5.282E-10	3.756E-10	1.811E-10	1.009E-10	6.199E-11	5.851E-11	3.254E-11	1.440E-11	6.999E-12	4.133E-12
E	3.408E-10	2.423E-10	1.168E-10	6.509E-11	3.999E-11	4.116E-11	2.364E-11	1.050E-11	5.341E-12	3.047E-12
ESE	6.948E-10	4.941E-10	2.382E-10	1.327E-10	8.154E-11	6.536E-11	3.378E-11	1.478E-11	7.578E-12	4.515E-12
SE	1.869E-09	1.329E-09	6.408E-10	3.571E-10	2.194E-10	8.929E-11	2.734E-11	1.137E-11	1.370E-11	1.103E-11
SSE	2.163E-09	1.538E-09	7.414E-10	4.131E-10	2.538E-10	2.004E-10	8.553E-11	3.457E-11	1.830E-11	1.123E-11

ERP ELEVATED STACK RELEASES - OCT-DEC 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.26 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.0 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	7.1E-08	7.1E-08	7.0E-08	3.6E-09
A	Site Boundary	SSW	.82	2.9E-08	2.9E-08	2.9E-08	1.4E-09
A	Site Boundary	SW	.97	3.9E-08	3.8E-08	3.9E-08	4.6E-10
A	Site Boundary	WSW	.93	3.4E-08	3.4E-08	3.4E-08	2.7E-10
A	Site Boundary	W	.91	2.1E-07	2.1E-07	2.1E-07	2.0E-09
A	Site Boundary	WNW	.94	3.2E-07	3.2E-07	3.2E-07	6.0E-09
A	Site Boundary	NW	.81	1.2E-07	1.2E-07	1.2E-07	1.5E-09
A	Site Boundary	NNW	.69	2.6E-08	2.6E-08	2.6E-08	1.6E-09
A	Site Boundary	N	.67	2.8E-08	2.8E-08	2.8E-08	2.6E-09
A	Site Boundary	NNE	.60	2.4E-09	2.4E-09	2.4E-09	3.8E-10
A	Site Boundary	NE	.62	3.8E-09	3.8E-09	3.8E-09	4.8E-10
A	Site Boundary	ENE	.59	2.2E-09	2.2E-09	2.2E-09	3.8E-10
A	Site Boundary	E	.53	5.7E-10	5.7E-10	5.7E-10	2.0E-10
A	Site Boundary	ESE	.54	1.2E-09	1.2E-09	1.2E-09	4.2E-10
A	Site Boundary	SE	.65	1.1E-08	1.1E-08	1.1E-08	1.6E-09
A	Site Boundary	SSE	.81	3.7E-08	3.7E-08	3.7E-08	2.5E-09
A	Nearest Res	SW	1.30	6.3E-08	6.3E-08	6.3E-08	7.3E-10
A	Nearest Res	WSW	1.90	8.0E-08	7.9E-08	7.8E-08	1.6E-10
A	Nearest Res	WNW	2.50	1.8E-07	1.8E-07	1.7E-07	1.0E-09
A	Nearest Res	NW	1.20	3.5E-07	3.5E-07	3.5E-07	2.9E-09
A	Nearest Res	NNW	2.00	1.5E-07	1.5E-07	1.4E-07	8.8E-10
A	Nearest Res	NE	1.70	3.0E-08	3.0E-08	3.0E-08	3.6E-10
A	Nearest Res	E	1.90	1.9E-08	1.9E-08	1.9E-08	1.8E-10
A	Nearest Cow	NNW	3.50	1.4E-07	1.4E-07	1.3E-07	3.7E-10
A	Nearest Garde	SW	2.20	4.4E-08	4.3E-08	4.3E-08	2.4E-10
A	Nearest Garde	WSW	2.50	5.4E-08	5.4E-08	5.3E-08	9.0E-11
A	Nearest Garde	WNW	2.70	1.6E-07	1.6E-07	1.5E-07	8.5E-10
A	Nearest Garde	NNW	2.70	1.4E-07	1.4E-07	1.4E-07	5.4E-10
A	Nearest Garde	ENE	1.70	2.8E-08	2.8E-08	2.7E-08	3.2E-10
A	Nearest Garde	E	1.90	1.9E-08	1.9E-08	1.9E-08	1.8E-10
A	Nearest Garde	ESE	2.20	2.0E-08	2.0E-08	1.9E-08	2.9E-10
A	Nearest Garde	SE	1.90	4.9E-08	4.9E-08	4.8E-08	9.7E-10
A	MAXIMUM CHI/Q	S	1.50	8.8E-08	8.8E-08	8.7E-08	1.7E-09
A	MAXIMUM CHI/Q	SSW	1.50	3.7E-08	3.7E-08	3.7E-08	6.8E-10
A	MAXIMUM CHI/Q	SW	1.50	7.1E-08	7.1E-08	7.1E-08	5.5E-10
A	MAXIMUM CHI/Q	WSW	1.50	1.1E-07	1.1E-07	1.1E-07	2.7E-10
A	MAXIMUM CHI/Q	W	1.00	2.3E-07	2.3E-07	2.2E-07	1.8E-09
A	MAXIMUM CHI/Q	WNW	1.50	4.3E-07	4.3E-07	4.2E-07	3.4E-09
A	MAXIMUM CHI/Q	NW	1.50	4.3E-07	4.3E-07	4.3E-07	2.6E-09
A	MAXIMUM CHI/Q	NNW	2.00	1.5E-07	1.5E-07	1.4E-07	8.8E-10
A	MAXIMUM CHI/Q	N	1.50	5.4E-08	5.3E-08	5.3E-08	1.1E-09
A	MAXIMUM CHI/Q	NNE	7.50	2.6E-08	2.5E-08	2.5E-08	1.1E-10
A	MAXIMUM CHI/Q	NE	7.50	3.5E-08	3.4E-08	3.3E-08	1.1E-10
A	MAXIMUM CHI/Q	ENE	1.50	2.8E-08	2.7E-08	2.7E-08	3.8E-10
A	MAXIMUM CHI/Q	E	1.50	1.9E-08	1.9E-08	1.9E-08	2.5E-10
A	MAXIMUM CHI/Q	ESE	1.50	2.3E-08	2.3E-08	2.3E-08	5.0E-10
A	MAXIMUM CHI/Q	SE	1.50	5.3E-08	5.2E-08	5.2E-08	1.3E-09
A	MAXIMUM CHI/Q	SSE	1.50	6.9E-08	6.9E-08	6.8E-08	1.6E-09

Atmospheric Diffusion Estimates

Elevated Releases

July-December 2025

B312

ERP ELEVATED STACK RELEASES - JUL-DEC 2025
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.629E-08	6.106E-08	9.281E-08	9.455E-08	8.699E-08	7.297E-08	6.009E-08	4.984E-08	4.193E-08	4.885E-08	5.421E-08
SSW	5.049E-09	3.949E-08	5.674E-08	5.072E-08	4.054E-08	3.249E-08	2.639E-08	2.866E-08	3.074E-08	2.760E-08	2.514E-08
SW	1.101E-08	1.351E-08	2.901E-08	5.190E-08	9.384E-08	6.780E-08	5.124E-08	4.032E-08	3.279E-08	2.736E-08	2.332E-08
WSW	8.026E-11	9.157E-09	3.927E-08	8.898E-08	1.860E-07	1.242E-07	8.929E-08	6.792E-08	5.388E-08	4.413E-08	3.708E-08
W	1.047E-08	9.451E-08	2.627E-07	3.347E-07	3.272E-07	2.079E-07	1.443E-07	1.068E-07	8.281E-08	6.654E-08	5.495E-08
WNW	1.830E-10	2.275E-08	1.995E-07	3.900E-07	5.648E-07	3.594E-07	2.507E-07	1.974E-07	1.612E-07	1.293E-07	1.068E-07
NW	6.755E-11	7.112E-09	1.279E-07	3.806E-07	7.526E-07	4.581E-07	3.110E-07	2.332E-07	1.833E-07	1.460E-07	1.198E-07
NNW	6.688E-11	5.451E-09	6.143E-08	1.432E-07	2.380E-07	2.446E-07	2.375E-07	2.233E-07	2.106E-07	1.675E-07	1.373E-07
N	2.577E-09	1.336E-08	3.717E-08	5.789E-08	7.091E-08	6.712E-08	5.893E-08	4.998E-08	4.271E-08	3.693E-08	3.230E-08
NNE	4.736E-16	4.878E-10	8.576E-09	1.792E-08	2.545E-08	2.475E-08	2.201E-08	1.919E-08	1.673E-08	1.469E-08	1.302E-08
NE	3.167E-16	4.172E-10	7.940E-09	1.695E-08	2.395E-08	2.292E-08	2.009E-08	1.730E-08	1.493E-08	1.300E-08	1.145E-08
ENE	3.204E-16	3.691E-10	6.754E-09	1.432E-08	2.040E-08	1.975E-08	1.746E-08	1.513E-08	1.312E-08	1.145E-08	1.010E-08
E	1.785E-16	2.730E-10	5.521E-09	1.226E-08	1.815E-08	1.782E-08	1.585E-08	1.377E-08	1.195E-08	1.044E-08	9.209E-09
ESE	1.717E-11	1.680E-09	1.065E-08	1.945E-08	2.533E-08	2.360E-08	2.042E-08	1.744E-08	1.496E-08	1.296E-08	1.135E-08
SE	1.465E-11	1.752E-09	1.578E-08	2.945E-08	3.805E-08	3.525E-08	3.040E-08	2.592E-08	2.222E-08	1.924E-08	1.686E-08
SSE	1.040E-09	9.922E-09	3.053E-08	4.635E-08	5.448E-08	4.888E-08	4.139E-08	3.486E-08	2.962E-08	2.548E-08	2.220E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.847E-08	3.244E-08	2.107E-08	1.209E-08	8.463E-09	6.391E-09	4.979E-09	4.035E-09	3.391E-09	2.906E-09	2.519E-09
SSW	2.407E-08	2.063E-08	1.353E-08	7.879E-09	5.698E-09	4.318E-09	3.384E-09	2.757E-09	2.313E-09	1.980E-09	1.724E-09
SW	2.228E-08	1.938E-08	1.298E-08	7.745E-09	5.699E-09	4.453E-09	3.643E-09	2.977E-09	2.500E-09	2.144E-09	1.869E-09
WSW	3.367E-08	2.487E-08	1.882E-08	1.250E-08	8.547E-09	6.379E-09	5.038E-09	4.120E-09	3.464E-09	2.974E-09	2.596E-09
W	4.640E-08	2.530E-08	1.784E-08	1.131E-08	8.191E-09	6.057E-09	4.714E-09	3.818E-09	3.183E-09	2.712E-09	2.352E-09
WNW	9.141E-08	5.275E-08	3.653E-08	2.272E-08	1.574E-08	1.185E-08	9.437E-09	7.756E-09	6.522E-09	5.577E-09	4.851E-09
NW	1.020E-07	5.765E-08	3.970E-08	2.437E-08	1.649E-08	1.221E-08	9.745E-09	7.976E-09	6.675E-09	5.705E-09	4.959E-09
NNW	1.184E-07	6.965E-08	4.571E-08	2.664E-08	1.822E-08	1.359E-08	1.083E-08	8.940E-09	7.654E-09	6.605E-09	5.757E-09
N	2.864E-08	1.824E-08	1.528E-08	1.301E-08	1.186E-08	1.027E-08	8.139E-09	6.656E-09	5.582E-09	4.783E-09	4.167E-09
NNE	1.476E-08	2.602E-08	1.704E-08	9.914E-09	6.776E-09	5.054E-09	3.983E-09	3.260E-09	2.742E-09	2.355E-09	2.056E-09
NE	1.271E-08	2.553E-08	1.681E-08	9.851E-09	6.767E-09	5.068E-09	4.071E-09	3.375E-09	2.874E-09	2.471E-09	2.159E-09
ENE	1.082E-08	1.566E-08	1.042E-08	6.167E-09	4.256E-09	3.195E-09	2.672E-09	2.272E-09	1.909E-09	1.639E-09	1.430E-09
E	9.819E-09	1.538E-08	1.031E-08	6.165E-09	4.281E-09	3.229E-09	2.565E-09	2.113E-09	1.875E-09	1.675E-09	1.464E-09
ESE	1.174E-08	1.375E-08	9.126E-09	5.371E-09	3.688E-09	2.756E-09	2.173E-09	1.778E-09	1.495E-09	1.283E-09	1.120E-09
SE	1.492E-08	9.411E-09	7.502E-09	5.743E-09	4.378E-09	3.585E-09	3.071E-09	2.705E-09	2.287E-09	1.973E-09	1.728E-09
SSE	2.392E-08	3.985E-08	2.613E-08	1.523E-08	1.043E-08	7.786E-09	6.142E-09	5.030E-09	4.234E-09	3.639E-09	3.180E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	8.653E-08	8.244E-08	5.942E-08	4.683E-08	5.050E-08	3.095E-08	1.247E-08	6.378E-09	4.059E-09	2.906E-09
SSW	5.023E-08	3.923E-08	2.892E-08	2.895E-08	2.547E-08	1.824E-08	8.166E-09	4.312E-09	2.767E-09	1.984E-09
SW	3.574E-08	7.295E-08	5.129E-08	3.287E-08	2.413E-08	1.718E-08	8.000E-09	4.461E-09	2.985E-09	2.148E-09
WSW	5.467E-08	1.370E-07	9.005E-08	5.418E-08	3.791E-08	2.414E-08	1.215E-08	6.421E-09	4.133E-09	2.979E-09
W	2.573E-07	2.758E-07	1.462E-07	8.345E-08	5.522E-08	2.667E-08	1.138E-08	6.089E-09	3.832E-09	2.718E-09
WNW	2.449E-07	4.347E-07	2.584E-07	1.594E-07	1.078E-07	5.413E-08	2.269E-08	1.192E-08	7.766E-09	5.588E-09
NW	2.134E-07	5.391E-07	3.191E-07	1.833E-07	1.209E-07	5.952E-08	2.428E-08	1.237E-08	7.986E-09	5.716E-09
NNW	8.531E-08	2.199E-07	2.337E-07	1.978E-07	1.392E-07	6.984E-08	2.714E-08	1.372E-08	8.991E-09	6.602E-09
N	4.109E-08	6.633E-08	5.753E-08	4.258E-08	3.232E-08	1.924E-08	1.300E-08	9.842E-09	6.670E-09	4.792E-09
NNE	1.093E-08	2.346E-08	2.161E-08	1.665E-08	1.416E-08	1.953E-08	1.010E-08	5.085E-09	3.269E-09	2.359E-09
NE	1.027E-08	2.194E-08	1.973E-08	1.487E-08	1.237E-08	1.880E-08	1.003E-08	5.122E-09	3.383E-09	2.475E-09
ENE	8.696E-09	1.876E-08	1.714E-08	1.306E-08	1.077E-08	1.225E-08	6.263E-09	3.269E-09	2.248E-09	1.642E-09
E	7.349E-09	1.669E-08	1.554E-08	1.190E-08	9.801E-09	1.189E-08	6.250E-09	3.244E-09	2.152E-09	1.656E-09
ESE	1.257E-08	2.326E-08	2.008E-08	1.491E-08	1.197E-08	1.125E-08	5.457E-09	2.771E-09	1.783E-09	1.286E-09
SE	1.874E-08	3.489E-08	2.990E-08	2.214E-08	1.685E-08	9.787E-09	5.527E-09	3.591E-09	2.650E-09	1.975E-09
SSE	3.298E-08	5.018E-08	4.077E-08	2.954E-08	2.381E-08	3.021E-08	1.552E-08	7.832E-09	5.045E-09	3.645E-09

ERP ELEVATED STACK RELEASES - JUL-DEC 2025
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.629E-08	6.098E-08	9.265E-08	9.435E-08	8.671E-08	7.266E-08	5.976E-08	4.951E-08	4.160E-08	4.840E-08	5.362E-08
SSW	5.046E-09	3.944E-08	5.664E-08	5.059E-08	4.039E-08	3.234E-08	2.622E-08	2.844E-08	3.047E-08	2.732E-08	2.485E-08
SW	1.100E-08	1.349E-08	2.896E-08	5.178E-08	9.345E-08	6.741E-08	5.086E-08	3.996E-08	3.243E-08	2.702E-08	2.299E-08
WSW	8.022E-11	9.146E-09	3.920E-08	8.874E-08	1.852E-07	1.234E-07	8.859E-08	6.726E-08	5.326E-08	4.355E-08	3.651E-08
W	1.046E-08	9.437E-08	2.622E-07	3.338E-07	3.257E-07	2.066E-07	1.431E-07	1.057E-07	8.187E-08	6.566E-08	5.414E-08
WNW	1.829E-10	2.272E-08	1.992E-07	3.891E-07	5.625E-07	3.573E-07	2.489E-07	1.955E-07	1.594E-07	1.276E-07	1.052E-07
NW	6.753E-11	7.107E-09	1.277E-07	3.799E-07	7.502E-07	4.561E-07	3.092E-07	2.315E-07	1.817E-07	1.446E-07	1.185E-07
NNW	6.687E-11	5.449E-09	6.137E-08	1.430E-07	2.375E-07	2.439E-07	2.366E-07	2.222E-07	2.093E-07	1.663E-07	1.362E-07
N	2.576E-09	1.336E-08	3.714E-08	5.781E-08	7.076E-08	6.693E-08	5.872E-08	4.976E-08	4.250E-08	3.671E-08	3.210E-08
NNE	4.735E-16	4.874E-10	8.565E-09	1.788E-08	2.537E-08	2.464E-08	2.188E-08	1.905E-08	1.658E-08	1.454E-08	1.287E-08
NE	3.166E-16	4.168E-10	7.928E-09	1.691E-08	2.387E-08	2.281E-08	1.997E-08	1.717E-08	1.480E-08	1.287E-08	1.131E-08
ENE	3.204E-16	3.688E-10	6.745E-09	1.429E-08	2.033E-08	1.964E-08	1.734E-08	1.500E-08	1.299E-08	1.132E-08	9.968E-09
E	1.785E-16	2.728E-10	5.512E-09	1.223E-08	1.807E-08	1.771E-08	1.573E-08	1.364E-08	1.182E-08	1.031E-08	9.071E-09
ESE	1.716E-11	1.679E-09	1.064E-08	1.942E-08	2.525E-08	2.350E-08	2.031E-08	1.732E-08	1.483E-08	1.283E-08	1.123E-08
SE	1.465E-11	1.751E-09	1.577E-08	2.941E-08	3.795E-08	3.512E-08	3.025E-08	2.576E-08	2.205E-08	1.908E-08	1.669E-08
SSE	1.039E-09	9.917E-09	3.050E-08	4.629E-08	5.435E-08	4.872E-08	4.121E-08	3.467E-08	2.943E-08	2.529E-08	2.202E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.788E-08	3.179E-08	2.051E-08	1.160E-08	8.000E-09	5.952E-09	4.574E-09	3.657E-09	3.030E-09	2.561E-09	2.191E-09
SSW	2.376E-08	2.018E-08	1.314E-08	7.537E-09	5.361E-09	3.998E-09	3.087E-09	2.479E-09	2.049E-09	1.730E-09	1.485E-09
SW	2.192E-08	1.886E-08	1.251E-08	7.323E-09	5.279E-09	4.040E-09	3.234E-09	2.593E-09	2.138E-09	1.801E-09	1.544E-09
WSW	3.309E-08	2.412E-08	1.800E-08	1.162E-08	7.759E-09	5.656E-09	4.363E-09	3.489E-09	2.870E-09	2.412E-09	2.061E-09
W	4.563E-08	2.466E-08	1.723E-08	1.071E-08	7.603E-09	5.518E-09	4.219E-09	3.358E-09	2.752E-09	2.306E-09	1.966E-09
WNW	8.985E-08	5.131E-08	3.515E-08	2.138E-08	1.450E-08	1.068E-08	8.329E-09	6.702E-09	5.520E-09	4.630E-09	3.950E-09
NW	1.007E-07	5.656E-08	3.868E-08	2.341E-08	1.564E-08	1.143E-08	8.997E-09	7.265E-09	6.002E-09	5.066E-09	4.350E-09
NNW	1.173E-07	6.868E-08	4.485E-08	2.589E-08	1.753E-08	1.296E-08	1.022E-08	8.356E-09	7.081E-09	6.050E-09	5.225E-09
N	2.844E-08	1.804E-08	1.505E-08	1.271E-08	1.148E-08	9.865E-09	7.753E-09	6.290E-09	5.235E-09	4.450E-09	3.848E-09
NNE	1.457E-08	2.551E-08	1.660E-08	9.532E-09	6.433E-09	4.740E-09	3.690E-09	2.985E-09	2.482E-09	2.107E-09	1.820E-09
NE	1.254E-08	2.504E-08	1.638E-08	9.475E-09	6.428E-09	4.756E-09	3.773E-09	3.090E-09	2.599E-09	2.209E-09	1.908E-09
ENE	1.066E-08	1.528E-08	1.008E-08	5.866E-09	3.980E-09	2.939E-09	2.411E-09	2.012E-09	1.665E-09	1.407E-09	1.209E-09
E	9.653E-09	1.494E-08	9.916E-09	5.810E-09	3.956E-09	2.926E-09	2.282E-09	1.845E-09	1.605E-09	1.405E-09	1.207E-09
ESE	1.159E-08	1.348E-08	8.890E-09	5.166E-09	3.503E-09	2.586E-09	2.015E-09	1.630E-09	1.355E-09	1.150E-09	9.920E-10
SE	1.475E-08	9.247E-09	7.323E-09	5.530E-09	4.157E-09	3.355E-09	2.830E-09	2.453E-09	2.046E-09	1.741E-09	1.506E-09
SSE	2.370E-08	3.889E-08	2.528E-08	1.448E-08	9.747E-09	7.159E-09	5.555E-09	4.477E-09	3.709E-09	3.139E-09	2.701E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	8.637E-08	8.216E-08	5.910E-08	4.645E-08	4.995E-08	3.035E-08	1.198E-08	5.947E-09	3.680E-09	2.563E-09
SSW	5.013E-08	3.908E-08	2.874E-08	2.869E-08	2.518E-08	1.785E-08	7.815E-09	3.997E-09	2.489E-09	1.734E-09
SW	3.567E-08	7.262E-08	5.091E-08	3.252E-08	2.379E-08	1.672E-08	7.568E-09	4.048E-09	2.603E-09	1.806E-09
WSW	5.454E-08	1.363E-07	8.935E-08	5.356E-08	3.733E-08	2.339E-08	1.132E-08	5.699E-09	3.503E-09	2.418E-09
W	2.567E-07	2.746E-07	1.451E-07	8.252E-08	5.440E-08	2.602E-08	1.078E-08	5.555E-09	3.373E-09	2.312E-09
WNW	2.444E-07	4.328E-07	2.565E-07	1.576E-07	1.061E-07	5.269E-08	2.138E-08	1.076E-08	6.717E-09	4.642E-09
NW	2.130E-07	5.372E-07	3.173E-07	1.818E-07	1.196E-07	5.843E-08	2.335E-08	1.158E-08	7.279E-09	5.078E-09
NNW	8.520E-08	2.193E-07	2.328E-07	1.966E-07	1.381E-07	6.890E-08	2.639E-08	1.308E-08	8.404E-09	6.050E-09
N	4.104E-08	6.618E-08	5.733E-08	4.237E-08	3.211E-08	1.902E-08	1.269E-08	9.452E-09	6.306E-09	4.459E-09
NNE	1.091E-08	2.338E-08	2.148E-08	1.651E-08	1.400E-08	1.912E-08	9.725E-09	4.772E-09	2.995E-09	2.112E-09
NE	1.025E-08	2.185E-08	1.961E-08	1.474E-08	1.223E-08	1.841E-08	9.655E-09	4.809E-09	3.098E-09	2.213E-09
ENE	8.679E-09	1.868E-08	1.702E-08	1.293E-08	1.063E-08	1.194E-08	5.964E-09	3.006E-09	1.994E-09	1.410E-09
E	7.332E-09	1.661E-08	1.542E-08	1.176E-08	9.653E-09	1.153E-08	5.898E-09	2.943E-09	1.878E-09	1.391E-09
ESE	1.255E-08	2.318E-08	1.996E-08	1.478E-08	1.184E-08	1.102E-08	5.254E-09	2.602E-09	1.635E-09	1.152E-09
SE	1.872E-08	3.479E-08	2.975E-08	2.198E-08	1.668E-08	9.615E-09	5.318E-09	3.359E-09	2.406E-09	1.745E-09
SSE	3.294E-08	5.006E-08	4.060E-08	2.935E-08	2.361E-08	2.946E-08	1.478E-08	7.207E-09	4.493E-09	3.146E-09

ERP ELEVATED STACK RELEASES - JUL-DEC 2025
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	1.629E-08	6.050E-08	9.111E-08	9.286E-08	8.521E-08	7.108E-08	5.817E-08	4.795E-08	4.012E-08	4.677E-08	5.197E-08
SSW	5.048E-09	3.912E-08	5.555E-08	4.951E-08	3.946E-08	3.149E-08	2.545E-08	2.764E-08	2.968E-08	2.660E-08	2.419E-08
SW	1.101E-08	1.338E-08	2.863E-08	5.151E-08	9.279E-08	6.666E-08	5.016E-08	3.934E-08	3.189E-08	2.654E-08	2.257E-08
WSW	8.025E-11	9.074E-09	3.881E-08	8.839E-08	1.841E-07	1.222E-07	8.742E-08	6.623E-08	5.237E-08	4.278E-08	3.585E-08
W	1.046E-08	9.344E-08	2.600E-07	3.303E-07	3.209E-07	2.025E-07	1.398E-07	1.030E-07	7.954E-08	6.368E-08	5.243E-08
WNW	1.829E-10	2.263E-08	1.989E-07	3.869E-07	5.565E-07	3.516E-07	2.440E-07	1.914E-07	1.560E-07	1.246E-07	1.023E-07
NW	6.754E-11	7.063E-09	1.276E-07	3.789E-07	7.439E-07	4.494E-07	3.034E-07	2.266E-07	1.775E-07	1.407E-07	1.149E-07
NNW	6.688E-11	5.418E-09	6.127E-08	1.430E-07	2.359E-07	2.409E-07	2.334E-07	2.192E-07	2.067E-07	1.637E-07	1.335E-07
N	2.576E-09	1.326E-08	3.688E-08	5.762E-08	7.016E-08	6.596E-08	5.756E-08	4.855E-08	4.129E-08	3.555E-08	3.098E-08
NNE	4.736E-16	4.877E-10	8.573E-09	1.791E-08	2.522E-08	2.434E-08	2.151E-08	1.864E-08	1.617E-08	1.414E-08	1.248E-08
NE	3.167E-16	4.171E-10	7.936E-09	1.694E-08	2.373E-08	2.252E-08	1.959E-08	1.675E-08	1.438E-08	1.245E-08	1.091E-08
ENE	3.204E-16	3.690E-10	6.751E-09	1.431E-08	2.021E-08	1.940E-08	1.703E-08	1.467E-08	1.264E-08	1.099E-08	9.641E-09
E	1.785E-16	2.730E-10	5.519E-09	1.225E-08	1.798E-08	1.750E-08	1.545E-08	1.334E-08	1.151E-08	1.000E-08	8.775E-09
ESE	1.716E-11	1.669E-09	1.061E-08	1.940E-08	2.507E-08	2.317E-08	1.990E-08	1.688E-08	1.440E-08	1.241E-08	1.082E-08
SE	1.465E-11	1.745E-09	1.575E-08	2.941E-08	3.768E-08	3.463E-08	2.964E-08	2.511E-08	2.140E-08	1.844E-08	1.608E-08
SSE	1.040E-09	9.843E-09	3.028E-08	4.610E-08	5.384E-08	4.793E-08	4.029E-08	3.370E-08	2.846E-08	2.435E-08	2.112E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.636E-08	3.044E-08	1.913E-08	1.026E-08	6.664E-09	4.726E-09	3.501E-09	2.711E-09	2.190E-09	1.815E-09	1.527E-09
SSW	2.317E-08	1.962E-08	1.243E-08	6.734E-09	4.502E-09	3.262E-09	2.460E-09	1.935E-09	1.571E-09	1.305E-09	1.104E-09
SW	2.157E-08	1.855E-08	1.199E-08	6.636E-09	4.476E-09	3.249E-09	2.539E-09	1.998E-09	1.620E-09	1.345E-09	1.137E-09
WSW	3.252E-08	2.355E-08	1.722E-08	1.076E-08	7.002E-09	5.005E-09	3.801E-09	2.999E-09	2.438E-09	2.029E-09	1.719E-09
W	4.413E-08	2.376E-08	1.654E-08	9.870E-09	6.691E-09	4.745E-09	3.558E-09	2.785E-09	2.249E-09	1.861E-09	1.569E-09
WNW	8.712E-08	4.872E-08	3.258E-08	1.882E-08	1.197E-08	8.392E-09	6.352E-09	5.013E-09	4.063E-09	3.357E-09	2.826E-09
NW	9.726E-08	5.328E-08	3.546E-08	2.031E-08	1.284E-08	8.973E-09	6.856E-09	5.413E-09	4.383E-09	3.633E-09	3.068E-09
NNW	1.145E-07	6.531E-08	4.136E-08	2.238E-08	1.404E-08	9.741E-09	7.292E-09	5.732E-09	4.730E-09	3.951E-09	3.341E-09
N	2.737E-08	1.722E-08	1.439E-08	1.229E-08	1.098E-08	9.079E-09	6.977E-09	5.550E-09	4.539E-09	3.799E-09	3.238E-09
NNE	1.417E-08	2.507E-08	1.585E-08	8.654E-09	5.567E-09	3.945E-09	2.972E-09	2.335E-09	1.893E-09	1.571E-09	1.329E-09
NE	1.212E-08	2.459E-08	1.563E-08	8.589E-09	5.536E-09	3.929E-09	3.023E-09	2.422E-09	1.998E-09	1.670E-09	1.420E-09
ENE	1.033E-08	1.501E-08	9.647E-09	5.315E-09	3.378E-09	2.364E-09	1.855E-09	1.499E-09	1.211E-09	1.001E-09	8.432E-10
E	9.349E-09	1.474E-08	9.543E-09	5.304E-09	3.388E-09	2.379E-09	1.775E-09	1.381E-09	1.161E-09	9.871E-10	8.270E-10
ESE	1.118E-08	1.313E-08	8.435E-09	4.644E-09	2.956E-09	2.071E-09	1.543E-09	1.199E-09	9.615E-10	7.898E-10	6.612E-10
SE	1.417E-08	8.801E-09	6.969E-09	5.312E-09	4.025E-09	3.283E-09	2.803E-09	2.454E-09	2.028E-09	1.714E-09	1.472E-09
SSE	2.276E-08	3.813E-08	2.412E-08	1.313E-08	8.370E-09	5.884E-09	4.399E-09	3.433E-09	2.765E-09	2.280E-09	1.916E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
	SEGMENT BOUNDARIES IN MILES FROM THE SITE									
S	8.509E-08	8.063E-08	5.753E-08	4.489E-08	4.835E-08	2.895E-08	1.063E-08	4.753E-09	2.738E-09	1.819E-09
SSW	4.922E-08	3.815E-08	2.794E-08	2.792E-08	2.452E-08	1.721E-08	7.008E-09	3.271E-09	1.946E-09	1.309E-09
SW	3.541E-08	7.201E-08	5.023E-08	3.198E-08	2.338E-08	1.630E-08	6.866E-09	3.292E-09	2.008E-09	1.349E-09
WSW	5.423E-08	1.353E-07	8.821E-08	5.268E-08	3.667E-08	2.273E-08	1.053E-08	5.056E-09	3.015E-09	2.036E-09
W	2.543E-07	2.704E-07	1.418E-07	8.020E-08	5.269E-08	2.508E-08	9.940E-09	4.789E-09	2.802E-09	1.868E-09
WNW	2.433E-07	4.278E-07	2.517E-07	1.541E-07	1.033E-07	5.008E-08	1.883E-08	8.529E-09	5.033E-09	3.370E-09
NW	2.125E-07	5.319E-07	3.116E-07	1.775E-07	1.160E-07	5.513E-08	2.036E-08	9.158E-09	5.433E-09	3.646E-09
NNW	8.516E-08	2.175E-07	2.297E-07	1.939E-07	1.354E-07	6.560E-08	2.289E-08	9.908E-09	5.796E-09	3.956E-09
N	4.085E-08	6.550E-08	5.619E-08	4.118E-08	3.100E-08	1.822E-08	1.218E-08	8.746E-09	5.573E-09	3.810E-09
NNE	1.092E-08	2.320E-08	2.112E-08	1.610E-08	1.360E-08	1.855E-08	8.880E-09	3.988E-09	2.349E-09	1.577E-09
NE	1.027E-08	2.168E-08	1.923E-08	1.432E-08	1.182E-08	1.783E-08	8.797E-09	3.995E-09	2.432E-09	1.675E-09
ENE	8.691E-09	1.854E-08	1.672E-08	1.259E-08	1.029E-08	1.158E-08	5.416E-09	2.431E-09	1.491E-09	1.005E-09
E	7.344E-09	1.649E-08	1.515E-08	1.146E-08	9.351E-09	1.123E-08	5.395E-09	2.407E-09	1.410E-09	9.793E-10
ESE	1.253E-08	2.297E-08	1.957E-08	1.435E-08	1.142E-08	1.061E-08	4.736E-09	2.095E-09	1.207E-09	7.930E-10
SE	1.871E-08	3.449E-08	2.916E-08	2.133E-08	1.607E-08	9.181E-09	5.108E-09	3.289E-09	2.391E-09	1.717E-09
SSE	3.277E-08	4.949E-08	3.969E-08	2.839E-08	2.268E-08	2.849E-08	1.346E-08	5.953E-09	3.455E-09	2.289E-09

ERP ELEVATED STACK RELEASES - JUL-DEC 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	4.251E-09	3.735E-09	3.584E-09	2.710E-09	1.420E-09	8.973E-10	6.159E-10	4.459E-10	3.353E-10	2.688E-10	2.459E-10
SSW	2.491E-09	2.018E-09	1.704E-09	1.170E-09	5.689E-10	3.488E-10	2.358E-10	1.693E-10	1.530E-10	1.158E-10	9.070E-11
SW	6.730E-10	6.364E-10	6.725E-10	5.400E-10	5.154E-10	2.813E-10	1.749E-10	1.191E-10	8.620E-11	6.526E-11	5.112E-11
WSW	6.751E-10	6.488E-10	6.990E-10	8.836E-10	5.698E-10	3.082E-10	1.903E-10	1.289E-10	9.306E-11	7.033E-11	5.504E-11
W	1.093E-09	4.005E-09	3.518E-09	2.397E-09	1.104E-09	5.973E-10	3.686E-10	2.496E-10	1.801E-10	1.360E-10	1.064E-10
WNW	6.406E-10	1.122E-09	4.800E-09	4.298E-09	2.575E-09	1.321E-09	7.919E-10	5.323E-10	4.149E-10	3.225E-10	2.651E-10
NW	6.631E-10	1.257E-09	2.131E-09	5.176E-09	3.442E-09	1.719E-09	1.022E-09	6.859E-10	5.048E-10	3.993E-10	3.348E-10
NNW	8.031E-10	1.417E-09	2.334E-09	2.262E-09	2.669E-09	1.452E-09	9.021E-10	7.725E-10	5.792E-10	4.683E-10	4.021E-10
N	1.819E-09	2.067E-09	2.626E-09	2.313E-09	1.334E-09	8.721E-10	6.087E-10	4.445E-10	3.357E-10	2.602E-10	2.061E-10
NNE	4.388E-11	2.633E-10	5.605E-10	5.806E-10	3.627E-10	2.432E-10	1.718E-10	1.262E-10	9.556E-11	7.417E-11	5.874E-11
NE	3.724E-11	2.234E-10	4.757E-10	4.928E-10	3.078E-10	2.064E-10	1.458E-10	1.071E-10	8.110E-11	6.295E-11	4.985E-11
ENE	3.326E-11	1.995E-10	4.248E-10	4.401E-10	2.749E-10	1.843E-10	1.302E-10	9.563E-11	7.243E-11	5.622E-11	4.452E-11
E	2.530E-11	1.518E-10	3.233E-10	3.348E-10	2.091E-10	1.402E-10	9.905E-11	7.276E-11	5.511E-11	4.277E-11	3.387E-11
ESE	1.766E-10	3.792E-10	6.708E-10	6.635E-10	4.059E-10	2.705E-10	1.905E-10	1.397E-10	1.057E-10	8.205E-11	6.498E-11
SE	2.264E-10	6.780E-10	1.307E-09	1.323E-09	8.176E-10	5.465E-10	3.855E-10	2.830E-10	2.142E-10	1.663E-10	1.317E-10
SSE	1.025E-09	1.390E-09	2.005E-09	1.858E-09	1.101E-09	7.261E-10	5.089E-10	3.724E-10	2.815E-10	2.183E-10	1.729E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	1.978E-10	1.418E-10	9.738E-11	5.681E-11	3.613E-11	2.558E-11	1.830E-11	1.370E-11	1.068E-11	8.498E-12	6.942E-12
SSW	7.371E-11	6.377E-11	4.576E-11	2.771E-11	1.639E-11	1.137E-11	8.158E-12	6.134E-12	4.804E-12	3.837E-12	3.132E-12
SW	4.175E-11	4.732E-11	3.546E-11	2.212E-11	1.423E-11	9.156E-12	6.062E-12	4.552E-12	3.539E-12	2.827E-12	2.307E-12
WSW	4.429E-11	5.707E-11	4.357E-11	2.508E-11	1.517E-11	1.017E-11	7.489E-12	5.624E-12	4.372E-12	3.493E-12	2.851E-12
W	8.556E-11	3.839E-11	5.588E-11	3.657E-11	2.168E-11	1.485E-11	1.064E-11	7.992E-12	6.214E-12	4.964E-12	4.052E-12
WNW	2.315E-10	1.411E-10	1.012E-10	6.097E-11	3.959E-11	2.642E-11	1.800E-11	1.351E-11	1.065E-11	8.506E-12	6.943E-12
NW	2.950E-10	1.896E-10	1.392E-10	8.461E-11	5.205E-11	3.477E-11	2.454E-11	1.843E-11	1.441E-11	1.151E-11	9.396E-12
NNW	3.623E-10	2.479E-10	1.869E-10	1.170E-10	7.507E-11	4.965E-11	3.323E-11	2.379E-11	1.843E-11	1.472E-11	1.201E-11
N	1.661E-10	7.878E-11	4.811E-11	2.540E-11	7.586E-11	4.443E-11	3.184E-11	2.391E-11	1.859E-11	1.485E-11	1.212E-11
NNE	4.731E-11	1.035E-10	6.457E-11	3.381E-11	2.069E-11	1.383E-11	9.870E-12	7.374E-12	5.711E-12	4.547E-12	3.701E-12
NE	4.015E-11	8.337E-11	5.283E-11	2.815E-11	1.731E-11	1.156E-11	8.195E-12	6.108E-12	4.749E-12	3.843E-12	3.137E-12
ENE	3.586E-11	5.116E-11	3.843E-11	2.399E-11	1.538E-11	1.017E-11	7.120E-12	4.731E-12	3.676E-12	2.935E-12	2.396E-12
E	2.728E-11	3.872E-11	2.907E-11	1.813E-11	1.162E-11	7.684E-12	5.379E-12	3.930E-12	2.988E-12	2.256E-12	1.832E-12
ESE	5.234E-11	5.817E-11	4.196E-11	2.540E-11	1.617E-11	1.072E-11	7.539E-12	5.537E-12	4.227E-12	3.327E-12	2.682E-12
SE	1.060E-10	5.022E-11	3.061E-11	1.609E-11	9.810E-12	6.762E-12	5.086E-12	1.099E-11	8.437E-12	6.678E-12	5.422E-12
SSE	1.393E-10	1.781E-10	1.118E-10	5.894E-11	3.612E-11	2.414E-11	1.721E-11	1.284E-11	9.935E-12	7.902E-12	6.426E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.229E-09	1.474E-09	6.229E-10	3.415E-10	2.349E-10	1.345E-10	5.663E-11	2.548E-11	1.386E-11	8.568E-12
SSW	1.537E-09	6.047E-10	2.393E-10	1.435E-10	9.184E-11	5.797E-11	2.669E-11	1.142E-11	6.206E-12	3.863E-12
SW	6.056E-10	4.168E-10	1.810E-10	8.762E-11	5.184E-11	4.081E-11	2.158E-11	9.271E-12	4.597E-12	2.846E-12
WSW	7.699E-10	5.233E-10	1.972E-10	9.465E-11	5.559E-11	4.823E-11	2.478E-11	1.043E-11	5.680E-12	3.516E-12
W	3.128E-09	1.166E-09	3.820E-10	1.832E-10	1.075E-10	5.665E-11	3.424E-11	1.499E-11	8.072E-12	4.997E-12
WNW	3.759E-09	2.400E-09	8.291E-10	4.132E-10	2.696E-10	1.434E-10	6.041E-11	2.657E-11	1.370E-11	8.562E-12
NW	3.290E-09	3.061E-09	1.073E-09	5.164E-10	3.392E-10	1.906E-10	8.228E-11	3.529E-11	1.864E-11	1.159E-11
NNW	2.098E-09	2.037E-09	9.969E-10	5.922E-10	4.070E-10	2.462E-10	1.139E-10	4.986E-11	2.444E-11	1.481E-11
N	2.363E-09	1.346E-09	6.133E-10	3.380E-10	2.073E-10	8.455E-11	5.287E-11	4.777E-11	2.415E-11	1.495E-11
NNE	5.034E-10	3.580E-10	1.726E-10	9.616E-11	5.908E-11	7.370E-11	3.481E-11	1.408E-11	7.453E-12	4.578E-12
NE	4.272E-10	3.038E-10	1.465E-10	8.161E-11	5.014E-11	6.019E-11	2.882E-11	1.175E-11	6.187E-12	3.850E-12
ENE	3.815E-10	2.713E-10	1.308E-10	7.288E-11	4.478E-11	4.210E-11	2.337E-11	1.034E-11	5.012E-12	2.955E-12
E	2.903E-10	2.064E-10	9.952E-11	5.545E-11	3.407E-11	3.189E-11	1.767E-11	7.812E-12	3.985E-12	2.316E-12
ESE	6.028E-10	4.030E-10	1.915E-10	1.064E-10	6.536E-11	4.967E-11	2.498E-11	1.090E-11	5.610E-12	3.355E-12
SE	1.174E-09	8.094E-10	3.874E-10	2.156E-10	1.324E-10	5.391E-11	1.653E-11	6.905E-12	8.332E-12	6.734E-12
SSE	1.803E-09	1.102E-09	5.122E-10	2.834E-10	1.739E-10	1.400E-10	6.056E-11	2.457E-11	1.298E-11	7.958E-12

ERP ELEVATED STACK RELEASES - JUL-DEC 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.26 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.0 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	9.4E-08	9.3E-08	9.2E-08	3.4E-09
A	Site Boundary	SSW	.82	5.5E-08	5.5E-08	5.4E-08	1.5E-09
A	Site Boundary	SW	.97	4.9E-08	4.9E-08	4.9E-08	5.6E-10
A	Site Boundary	WSW	.93	7.2E-08	7.2E-08	7.2E-08	7.0E-10
A	Site Boundary	W	.91	3.2E-07	3.2E-07	3.1E-07	2.6E-09
A	Site Boundary	WNW	.94	3.5E-07	3.5E-07	3.5E-07	4.8E-09
A	Site Boundary	NW	.81	1.9E-07	1.9E-07	1.9E-07	2.2E-09
A	Site Boundary	NNW	.69	3.9E-08	3.9E-08	3.9E-08	2.1E-09
A	Site Boundary	N	.67	2.7E-08	2.7E-08	2.7E-08	2.4E-09
A	Site Boundary	NNE	.60	2.4E-09	2.4E-09	2.4E-09	3.8E-10
A	Site Boundary	NE	.62	2.8E-09	2.8E-09	2.8E-09	3.5E-10
A	Site Boundary	ENE	.59	1.6E-09	1.6E-09	1.6E-09	2.8E-10
A	Site Boundary	E	.53	4.5E-10	4.5E-10	4.5E-10	1.7E-10
A	Site Boundary	ESE	.54	2.4E-09	2.4E-09	2.3E-09	4.2E-10
A	Site Boundary	SE	.65	8.3E-09	8.3E-09	8.3E-09	1.1E-09
A	Site Boundary	SSE	.81	3.5E-08	3.5E-08	3.5E-08	2.0E-09
A	Nearest Res	SW	1.30	8.0E-08	8.0E-08	7.9E-08	6.9E-10
A	Nearest Res	WSW	1.90	1.3E-07	1.3E-07	1.3E-07	3.4E-10
A	Nearest Res	WNW	2.50	2.5E-07	2.5E-07	2.4E-07	7.9E-10
A	Nearest Res	NW	1.20	5.7E-07	5.7E-07	5.6E-07	3.8E-09
A	Nearest Res	NNW	2.00	2.4E-07	2.4E-07	2.4E-07	1.5E-09
A	Nearest Res	NE	1.70	2.4E-08	2.4E-08	2.4E-08	2.6E-10
A	Nearest Res	E	1.90	1.8E-08	1.8E-08	1.8E-08	1.5E-10
A	Nearest Cow	NNW	3.50	2.1E-07	2.1E-07	2.1E-07	5.8E-10
A	Nearest Garde	SW	2.20	6.0E-08	6.0E-08	5.9E-08	2.3E-10
A	Nearest Garde	WSW	2.50	8.9E-08	8.9E-08	8.7E-08	1.9E-10
A	Nearest Garde	WNW	2.70	2.3E-07	2.2E-07	2.2E-07	6.7E-10
A	Nearest Garde	NNW	2.70	2.3E-07	2.3E-07	2.3E-07	8.6E-10
A	Nearest Garde	ENE	1.70	2.1E-08	2.0E-08	2.0E-08	2.3E-10
A	Nearest Garde	E	1.90	1.8E-08	1.8E-08	1.8E-08	1.5E-10
A	Nearest Garde	ESE	2.20	2.2E-08	2.2E-08	2.2E-08	2.3E-10
A	Nearest Garde	SE	1.90	3.6E-08	3.6E-08	3.6E-08	5.9E-10
A	MAXIMUM CHI/Q	S	1.00	9.5E-08	9.4E-08	9.3E-08	2.7E-09
A	MAXIMUM CHI/Q	SSW	.75	5.7E-08	5.7E-08	5.6E-08	1.7E-09
A	MAXIMUM CHI/Q	SW	1.50	9.4E-08	9.3E-08	9.3E-08	5.2E-10
A	MAXIMUM CHI/Q	WSW	1.50	1.9E-07	1.9E-07	1.8E-07	5.7E-10
A	MAXIMUM CHI/Q	W	1.00	3.3E-07	3.3E-07	3.3E-07	2.4E-09
A	MAXIMUM CHI/Q	WNW	1.50	5.6E-07	5.6E-07	5.6E-07	2.6E-09
A	MAXIMUM CHI/Q	NW	1.50	7.5E-07	7.5E-07	7.4E-07	3.4E-09
A	MAXIMUM CHI/Q	NNW	2.00	2.4E-07	2.4E-07	2.4E-07	1.5E-09
A	MAXIMUM CHI/Q	N	1.50	7.1E-08	7.1E-08	7.0E-08	1.3E-09
A	MAXIMUM CHI/Q	NNE	7.50	2.6E-08	2.6E-08	2.5E-08	1.0E-10
A	MAXIMUM CHI/Q	NE	7.50	2.6E-08	2.5E-08	2.5E-08	8.3E-11
A	MAXIMUM CHI/Q	ENE	1.50	2.0E-08	2.0E-08	2.0E-08	2.7E-10
A	MAXIMUM CHI/Q	E	1.50	1.8E-08	1.8E-08	1.8E-08	2.1E-10
A	MAXIMUM CHI/Q	ESE	1.50	2.5E-08	2.5E-08	2.5E-08	4.1E-10
A	MAXIMUM CHI/Q	SE	1.50	3.8E-08	3.8E-08	3.8E-08	8.2E-10
A	MAXIMUM CHI/Q	SSE	1.50	5.4E-08	5.4E-08	5.4E-08	1.1E-09

Atmospheric Diffusion Estimates

Elevated Releases

January-December 2025

ERP ELEVATED STACK RELEASES - JAN-DEC 2025
NO DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.375E-08	5.335E-08	8.016E-08	8.271E-08	7.610E-08	6.332E-08	5.178E-08	4.271E-08	3.578E-08	4.127E-08	4.549E-08
SSW	7.996E-09	5.187E-08	6.743E-08	5.902E-08	4.642E-08	3.660E-08	2.929E-08	3.078E-08	3.161E-08	2.772E-08	2.470E-08
SW	7.249E-09	2.112E-08	4.936E-08	7.938E-08	1.171E-07	7.972E-08	5.784E-08	4.418E-08	3.509E-08	2.874E-08	2.412E-08
WSW	7.526E-11	8.156E-09	4.052E-08	8.854E-08	1.660E-07	1.095E-07	7.821E-08	5.925E-08	4.687E-08	3.830E-08	3.212E-08
W	5.669E-09	7.261E-08	2.222E-07	2.881E-07	2.874E-07	1.837E-07	1.282E-07	9.526E-08	7.415E-08	5.977E-08	4.951E-08
WNW	1.241E-09	2.540E-08	1.711E-07	3.270E-07	4.610E-07	2.912E-07	2.021E-07	1.580E-07	1.283E-07	1.027E-07	8.457E-08
NW	2.348E-09	1.766E-08	1.221E-07	3.230E-07	5.890E-07	3.548E-07	2.393E-07	1.783E-07	1.395E-07	1.108E-07	9.076E-08
NNW	6.446E-09	1.669E-08	5.797E-08	1.145E-07	1.845E-07	1.891E-07	1.831E-07	1.723E-07	1.635E-07	1.301E-07	1.067E-07
N	1.159E-08	2.748E-08	4.451E-08	5.509E-08	6.056E-08	5.591E-08	4.868E-08	4.115E-08	3.512E-08	3.035E-08	2.654E-08
NNE	6.534E-11	4.939E-09	1.769E-08	2.764E-08	3.375E-08	3.106E-08	2.677E-08	2.285E-08	1.962E-08	1.703E-08	1.495E-08
NE	4.193E-16	4.384E-10	7.665E-09	1.576E-08	2.174E-08	2.072E-08	1.817E-08	1.567E-08	1.355E-08	1.182E-08	1.041E-08
ENE	3.834E-16	3.942E-10	6.923E-09	1.431E-08	1.989E-08	1.905E-08	1.676E-08	1.448E-08	1.254E-08	1.095E-08	9.659E-09
E	1.606E-11	1.140E-09	7.999E-09	1.556E-08	2.134E-08	2.025E-08	1.763E-08	1.509E-08	1.294E-08	1.119E-08	9.785E-09
ESE	1.719E-11	1.881E-09	1.328E-08	2.397E-08	3.026E-08	2.767E-08	2.364E-08	2.002E-08	1.708E-08	1.473E-08	1.287E-08
SE	6.135E-11	4.701E-09	2.457E-08	4.116E-08	4.989E-08	4.503E-08	3.823E-08	3.224E-08	2.741E-08	2.358E-08	2.054E-08
SSE	1.319E-09	1.535E-08	4.294E-08	6.059E-08	6.737E-08	5.905E-08	4.933E-08	4.115E-08	3.470E-08	2.967E-08	2.573E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.057E-08	2.663E-08	1.724E-08	9.842E-09	6.835E-09	5.130E-09	3.989E-09	3.229E-09	2.706E-09	2.314E-09	2.004E-09
SSW	2.300E-08	1.743E-08	1.130E-08	6.480E-09	4.571E-09	3.421E-09	2.669E-09	2.166E-09	1.810E-09	1.545E-09	1.341E-09
SW	2.230E-08	1.741E-08	1.150E-08	6.747E-09	4.876E-09	3.764E-09	3.045E-09	2.480E-09	2.076E-09	1.777E-09	1.546E-09
WSW	2.909E-08	2.108E-08	1.571E-08	1.021E-08	6.964E-09	5.186E-09	4.085E-09	3.337E-09	2.803E-09	2.405E-09	2.097E-09
W	4.190E-08	2.306E-08	1.649E-08	1.066E-08	7.827E-09	5.804E-09	4.528E-09	3.674E-09	3.069E-09	2.619E-09	2.274E-09
WNW	7.222E-08	4.128E-08	2.841E-08	1.753E-08	1.211E-08	9.086E-09	7.218E-09	5.920E-09	4.969E-09	4.246E-09	3.690E-09
NW	7.707E-08	4.322E-08	2.962E-08	1.809E-08	1.222E-08	9.034E-09	7.197E-09	5.883E-09	4.920E-09	4.202E-09	3.651E-09
NNW	9.216E-08	5.457E-08	3.586E-08	2.094E-08	1.434E-08	1.071E-08	8.547E-09	7.063E-09	6.054E-09	5.228E-09	4.559E-09
N	2.354E-08	1.503E-08	1.263E-08	1.070E-08	9.593E-09	8.210E-09	6.493E-09	5.305E-09	4.448E-09	3.810E-09	3.318E-09
NNE	1.650E-08	2.783E-08	1.821E-08	1.058E-08	7.232E-09	5.393E-09	4.250E-09	3.478E-09	2.925E-09	2.513E-09	2.194E-09
NE	1.161E-08	2.080E-08	1.364E-08	7.947E-09	5.439E-09	4.062E-09	3.248E-09	2.684E-09	2.278E-09	1.956E-09	1.707E-09
ENE	1.043E-08	1.624E-08	1.082E-08	6.420E-09	4.438E-09	3.336E-09	2.789E-09	2.368E-09	1.992E-09	1.711E-09	1.494E-09
E	1.018E-08	1.306E-08	8.639E-09	5.071E-09	3.480E-09	2.601E-09	2.053E-09	1.681E-09	1.472E-09	1.301E-09	1.134E-09
ESE	1.326E-08	1.527E-08	1.010E-08	5.919E-09	4.053E-09	3.023E-09	2.380E-09	1.945E-09	1.634E-09	1.401E-09	1.222E-09
SE	1.809E-08	1.121E-08	8.759E-09	6.458E-09	4.823E-09	3.878E-09	3.267E-09	2.837E-09	2.389E-09	2.054E-09	1.794E-09
SSE	2.724E-08	3.663E-08	2.377E-08	1.366E-08	9.265E-09	6.869E-09	5.387E-09	4.390E-09	3.680E-09	3.151E-09	2.744E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	7.534E-08	7.189E-08	5.123E-08	3.985E-08	4.242E-08	2.555E-08	1.015E-08	5.128E-09	3.247E-09	2.315E-09
SSW	6.023E-08	4.486E-08	3.184E-08	2.989E-08	2.496E-08	1.595E-08	6.704E-09	3.427E-09	2.174E-09	1.548E-09
SW	5.643E-08	9.212E-08	5.821E-08	3.527E-08	2.482E-08	1.587E-08	6.972E-09	3.773E-09	2.488E-09	1.780E-09
WSW	5.467E-08	1.236E-07	7.896E-08	4.714E-08	3.283E-08	2.047E-08	9.991E-09	5.220E-09	3.347E-09	2.409E-09
W	2.183E-07	2.415E-07	1.298E-07	7.470E-08	4.973E-08	2.433E-08	1.070E-08	5.833E-09	3.687E-09	2.624E-09
WNW	2.080E-07	3.558E-07	2.082E-07	1.270E-07	8.536E-08	4.244E-08	1.754E-08	9.144E-09	5.929E-09	4.255E-09
NW	1.882E-07	4.258E-07	2.457E-07	1.397E-07	9.164E-08	4.470E-08	1.804E-08	9.149E-09	5.892E-09	4.211E-09
NNW	7.391E-08	1.710E-07	1.804E-07	1.533E-07	1.083E-07	5.461E-08	2.132E-08	1.081E-08	7.103E-09	5.225E-09
N	4.543E-08	5.728E-08	4.759E-08	3.502E-08	2.656E-08	1.585E-08	1.064E-08	7.892E-09	5.318E-09	3.817E-09
NNE	1.928E-08	3.120E-08	2.635E-08	1.956E-08	1.614E-08	2.104E-08	1.079E-08	5.426E-09	3.488E-09	2.517E-09
NE	9.656E-09	1.996E-08	1.785E-08	1.350E-08	1.127E-08	1.557E-08	8.097E-09	4.104E-09	2.690E-09	1.959E-09
ENE	8.755E-09	1.827E-08	1.646E-08	1.249E-08	1.033E-08	1.254E-08	6.517E-09	3.411E-09	2.345E-09	1.713E-09
E	9.835E-09	1.957E-08	1.731E-08	1.289E-08	1.035E-08	1.046E-08	5.157E-09	2.616E-09	1.708E-09	1.290E-09
ESE	1.550E-08	2.771E-08	2.327E-08	1.703E-08	1.357E-08	1.253E-08	6.019E-09	3.040E-09	1.951E-09	1.404E-09
SE	2.753E-08	4.579E-08	3.765E-08	2.733E-08	2.053E-08	1.165E-08	6.243E-09	3.886E-09	2.789E-09	2.057E-09
SSE	4.466E-08	6.217E-08	4.865E-08	3.463E-08	2.746E-08	2.883E-08	1.396E-08	6.915E-09	4.405E-09	3.157E-09

ERP ELEVATED STACK RELEASES - JAN-DEC 2025
2.260 DAY DECAY, UNDEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.374E-08	5.329E-08	8.005E-08	8.256E-08	7.590E-08	6.310E-08	5.154E-08	4.247E-08	3.554E-08	4.094E-08	4.506E-08
SSW	7.992E-09	5.181E-08	6.732E-08	5.889E-08	4.628E-08	3.646E-08	2.915E-08	3.059E-08	3.138E-08	2.749E-08	2.446E-08
SW	7.245E-09	2.110E-08	4.928E-08	7.921E-08	1.167E-07	7.934E-08	5.749E-08	4.384E-08	3.478E-08	2.845E-08	2.385E-08
WSW	7.522E-11	8.146E-09	4.045E-08	8.833E-08	1.653E-07	1.089E-07	7.769E-08	5.877E-08	4.642E-08	3.788E-08	3.171E-08
W	5.664E-09	7.252E-08	2.218E-07	2.874E-07	2.862E-07	1.827E-07	1.273E-07	9.445E-08	7.341E-08	5.908E-08	4.886E-08
WNW	1.240E-09	2.537E-08	1.708E-07	3.262E-07	4.592E-07	2.896E-07	2.006E-07	1.566E-07	1.269E-07	1.014E-07	8.337E-08
NW	2.347E-09	1.765E-08	1.220E-07	3.224E-07	5.872E-07	3.534E-07	2.380E-07	1.772E-07	1.384E-07	1.099E-07	8.986E-08
NNW	6.445E-09	1.668E-08	5.792E-08	1.143E-07	1.841E-07	1.885E-07	1.823E-07	1.715E-07	1.625E-07	1.292E-07	1.059E-07
N	1.159E-08	2.747E-08	4.448E-08	5.503E-08	6.044E-08	5.575E-08	4.851E-08	4.098E-08	3.495E-08	3.017E-08	2.637E-08
NNE	6.532E-11	4.936E-09	1.767E-08	2.760E-08	3.366E-08	3.093E-08	2.664E-08	2.271E-08	1.948E-08	1.688E-08	1.480E-08
NE	4.192E-16	4.381E-10	7.656E-09	1.573E-08	2.168E-08	2.064E-08	1.808E-08	1.558E-08	1.345E-08	1.172E-08	1.032E-08
ENE	3.833E-16	3.939E-10	6.914E-09	1.428E-08	1.983E-08	1.896E-08	1.666E-08	1.438E-08	1.244E-08	1.085E-08	9.556E-09
E	1.606E-11	1.140E-09	7.988E-09	1.553E-08	2.126E-08	2.014E-08	1.752E-08	1.496E-08	1.281E-08	1.107E-08	9.660E-09
ESE	1.719E-11	1.880E-09	1.327E-08	2.393E-08	3.018E-08	2.757E-08	2.354E-08	1.992E-08	1.697E-08	1.462E-08	1.276E-08
SE	6.133E-11	4.699E-09	2.455E-08	4.111E-08	4.979E-08	4.490E-08	3.809E-08	3.209E-08	2.726E-08	2.343E-08	2.039E-08
SSE	1.319E-09	1.534E-08	4.290E-08	6.052E-08	6.723E-08	5.888E-08	4.914E-08	4.096E-08	3.451E-08	2.948E-08	2.554E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	4.013E-08	2.615E-08	1.682E-08	9.483E-09	6.498E-09	4.812E-09	3.696E-09	2.954E-09	2.445E-09	2.064E-09	1.766E-09
SSW	2.275E-08	1.712E-08	1.103E-08	6.248E-09	4.348E-09	3.212E-09	2.475E-09	1.984E-09	1.637E-09	1.381E-09	1.185E-09
SW	2.201E-08	1.704E-08	1.117E-08	6.457E-09	4.594E-09	3.490E-09	2.777E-09	2.228E-09	1.839E-09	1.551E-09	1.331E-09
WSW	2.867E-08	2.057E-08	1.518E-08	9.665E-09	6.471E-09	4.733E-09	3.662E-09	2.940E-09	2.428E-09	2.049E-09	1.758E-09
W	4.129E-08	2.255E-08	1.599E-08	1.017E-08	7.327E-09	5.343E-09	4.103E-09	3.278E-09	2.696E-09	2.266E-09	1.938E-09
WNW	7.107E-08	4.025E-08	2.744E-08	1.660E-08	1.125E-08	8.284E-09	6.457E-09	5.197E-09	4.282E-09	3.595E-09	3.071E-09
NW	7.621E-08	4.248E-08	2.893E-08	1.743E-08	1.164E-08	8.499E-09	6.686E-09	5.398E-09	4.460E-09	3.766E-09	3.235E-09
NNW	9.137E-08	5.383E-08	3.521E-08	2.037E-08	1.382E-08	1.023E-08	8.087E-09	6.620E-09	5.621E-09	4.808E-09	4.155E-09
N	2.337E-08	1.486E-08	1.245E-08	1.046E-08	9.313E-09	7.909E-09	6.210E-09	5.037E-09	4.192E-09	3.565E-09	3.083E-09
NNE	1.632E-08	2.732E-08	1.776E-08	1.019E-08	6.880E-09	5.069E-09	3.947E-09	3.193E-09	2.655E-09	2.255E-09	1.947E-09
NE	1.149E-08	2.046E-08	1.334E-08	7.687E-09	5.205E-09	3.846E-09	3.043E-09	2.488E-09	2.088E-09	1.775E-09	1.534E-09
ENE	1.031E-08	1.595E-08	1.056E-08	6.191E-09	4.228E-09	3.141E-09	2.593E-09	2.174E-09	1.808E-09	1.535E-09	1.326E-09
E	1.003E-08	1.276E-08	8.372E-09	4.837E-09	3.268E-09	2.405E-09	1.870E-09	1.509E-09	1.300E-09	1.131E-09	9.722E-10
ESE	1.313E-08	1.504E-08	9.902E-09	5.748E-09	3.898E-09	2.880E-09	2.247E-09	1.819E-09	1.514E-09	1.287E-09	1.112E-09
SE	1.794E-08	1.107E-08	8.607E-09	6.285E-09	4.647E-09	3.698E-09	3.082E-09	2.645E-09	2.206E-09	1.878E-09	1.625E-09
SSE	2.701E-08	3.595E-08	2.318E-08	1.314E-08	8.796E-09	6.437E-09	4.983E-09	4.010E-09	3.319E-09	2.807E-09	2.415E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

SEGMENT BOUNDARIES IN MILES FROM THE SITE

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	7.522E-08	7.169E-08	5.099E-08	3.958E-08	4.201E-08	2.511E-08	9.787E-09	4.815E-09	2.972E-09	2.067E-09
SSW	6.013E-08	4.472E-08	3.168E-08	2.967E-08	2.472E-08	1.567E-08	6.467E-09	3.220E-09	1.992E-09	1.384E-09
SW	5.632E-08	9.177E-08	5.786E-08	3.496E-08	2.453E-08	1.554E-08	6.677E-09	3.499E-09	2.237E-09	1.555E-09
WSW	5.455E-08	1.231E-07	7.844E-08	4.669E-08	3.241E-08	1.998E-08	9.471E-09	4.768E-09	2.951E-09	2.053E-09
W	2.178E-07	2.405E-07	1.289E-07	7.396E-08	4.908E-08	2.380E-08	1.020E-08	5.376E-09	3.292E-09	2.272E-09
WNW	2.076E-07	3.542E-07	2.067E-07	1.257E-07	8.415E-08	4.140E-08	1.663E-08	8.343E-09	5.208E-09	3.605E-09
NW	1.879E-07	4.244E-07	2.445E-07	1.386E-07	9.073E-08	4.395E-08	1.741E-08	8.610E-09	5.409E-09	3.775E-09
NNW	7.382E-08	1.706E-07	1.797E-07	1.524E-07	1.074E-07	5.390E-08	2.076E-08	1.033E-08	6.658E-09	4.807E-09
N	4.539E-08	5.715E-08	4.743E-08	3.485E-08	2.639E-08	1.568E-08	1.039E-08	7.604E-09	5.050E-09	3.573E-09
NNE	1.925E-08	3.110E-08	2.621E-08	1.941E-08	1.598E-08	2.063E-08	1.040E-08	5.103E-09	3.203E-09	2.259E-09
NE	9.640E-09	1.990E-08	1.776E-08	1.340E-08	1.116E-08	1.530E-08	7.839E-09	3.887E-09	2.494E-09	1.778E-09
ENE	8.741E-09	1.821E-08	1.636E-08	1.239E-08	1.022E-08	1.230E-08	6.290E-09	3.212E-09	2.154E-09	1.539E-09
E	9.816E-09	1.949E-08	1.719E-08	1.276E-08	1.022E-08	1.021E-08	4.925E-09	2.421E-09	1.532E-09	1.122E-09
ESE	1.548E-08	2.763E-08	2.317E-08	1.692E-08	1.345E-08	1.233E-08	5.849E-09	2.898E-09	1.825E-09	1.290E-09
SE	2.750E-08	4.569E-08	3.751E-08	2.718E-08	2.038E-08	1.150E-08	6.073E-09	3.704E-09	2.603E-09	1.882E-09
SSE	4.461E-08	6.203E-08	4.847E-08	3.444E-08	2.725E-08	2.829E-08	1.344E-08	6.484E-09	4.025E-09	2.813E-09

ERP ELEVATED STACK RELEASES - JAN-DEC 2025
8.000 DAY DECAY, DEPLETED
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	.250	.500	.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	2.375E-08	5.286E-08	7.875E-08	8.132E-08	7.460E-08	6.171E-08	5.013E-08	4.109E-08	3.422E-08	3.949E-08	4.358E-08
SSW	7.995E-09	5.139E-08	6.605E-08	5.769E-08	4.524E-08	3.550E-08	2.826E-08	2.966E-08	3.044E-08	2.662E-08	2.366E-08
SW	7.247E-09	2.093E-08	4.866E-08	7.865E-08	1.155E-07	7.800E-08	5.624E-08	4.273E-08	3.380E-08	2.758E-08	2.307E-08
WSW	7.525E-11	8.084E-09	4.010E-08	8.796E-08	1.640E-07	1.075E-07	7.641E-08	5.765E-08	4.545E-08	3.704E-08	3.097E-08
W	5.667E-09	7.182E-08	2.201E-07	2.845E-07	2.822E-07	1.793E-07	1.245E-07	9.213E-08	7.146E-08	5.742E-08	4.743E-08
WNW	1.240E-09	2.524E-08	1.704E-07	3.243E-07	4.541E-07	2.847E-07	1.964E-07	1.530E-07	1.239E-07	9.867E-08	8.085E-08
NW	2.348E-09	1.751E-08	1.215E-07	3.213E-07	5.815E-07	3.475E-07	2.329E-07	1.728E-07	1.347E-07	1.065E-07	8.671E-08
NNW	6.446E-09	1.655E-08	5.756E-08	1.141E-07	1.828E-07	1.863E-07	1.799E-07	1.692E-07	1.605E-07	1.272E-07	1.039E-07
N	1.159E-08	2.724E-08	4.393E-08	5.456E-08	5.976E-08	5.484E-08	4.749E-08	3.994E-08	3.393E-08	2.920E-08	2.545E-08
NNE	6.534E-11	4.900E-09	1.754E-08	2.748E-08	3.335E-08	3.046E-08	2.609E-08	2.213E-08	1.890E-08	1.632E-08	1.427E-08
NE	4.193E-16	4.383E-10	7.663E-09	1.575E-08	2.154E-08	2.038E-08	1.775E-08	1.521E-08	1.309E-08	1.136E-08	9.969E-09
ENE	3.834E-16	3.941E-10	6.920E-09	1.430E-08	1.971E-08	1.872E-08	1.636E-08	1.405E-08	1.211E-08	1.052E-08	9.242E-09
E	1.606E-11	1.133E-09	7.971E-09	1.552E-08	2.112E-08	1.987E-08	1.717E-08	1.459E-08	1.243E-08	1.069E-08	9.298E-09
ESE	1.719E-11	1.870E-09	1.324E-08	2.391E-08	2.995E-08	2.717E-08	2.305E-08	1.939E-08	1.644E-08	1.411E-08	1.226E-08
SE	6.134E-11	4.670E-09	2.445E-08	4.103E-08	4.936E-08	4.421E-08	3.727E-08	3.123E-08	2.640E-08	2.259E-08	1.958E-08
SSE	1.319E-09	1.523E-08	4.251E-08	6.016E-08	6.650E-08	5.785E-08	4.797E-08	3.974E-08	3.331E-08	2.832E-08	2.443E-08

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) DISTANCE IN MILES FROM THE SITE

SECTOR	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.877E-08	2.496E-08	1.563E-08	8.351E-09	5.389E-09	3.804E-09	2.817E-09	2.181E-09	1.759E-09	1.456E-09	1.225E-09
SSW	2.201E-08	1.645E-08	1.031E-08	5.518E-09	3.618E-09	2.592E-09	1.947E-09	1.527E-09	1.236E-09	1.024E-09	8.646E-10
SW	2.131E-08	1.644E-08	1.051E-08	5.744E-09	3.833E-09	2.765E-09	2.144E-09	1.683E-09	1.363E-09	1.130E-09	9.547E-10
WSW	2.803E-08	1.992E-08	1.437E-08	8.805E-09	5.721E-09	4.087E-09	3.101E-09	2.448E-09	1.992E-09	1.659E-09	1.408E-09
W	4.004E-08	2.179E-08	1.539E-08	9.358E-09	6.429E-09	4.575E-09	3.441E-09	2.700E-09	2.187E-09	1.813E-09	1.532E-09
WNW	6.867E-08	3.804E-08	2.530E-08	1.452E-08	9.216E-09	6.455E-09	4.883E-09	3.852E-09	3.119E-09	2.577E-09	2.170E-09
NW	7.322E-08	3.980E-08	2.638E-08	1.506E-08	9.533E-09	6.670E-09	5.094E-09	4.019E-09	3.254E-09	2.697E-09	2.277E-09
NNW	8.926E-08	5.122E-08	3.248E-08	1.760E-08	1.105E-08	7.675E-09	5.755E-09	4.531E-09	3.745E-09	3.131E-09	2.649E-09
N	2.250E-08	1.420E-08	1.191E-08	1.012E-08	8.887E-09	7.255E-09	5.567E-09	4.425E-09	3.617E-09	3.027E-09	2.580E-09
NNE	1.577E-08	2.674E-08	1.689E-08	9.220E-09	5.932E-09	4.205E-09	3.168E-09	2.491E-09	2.019E-09	1.676E-09	1.418E-09
NE	1.113E-08	2.004E-08	1.269E-08	6.944E-09	4.472E-09	3.172E-09	2.434E-09	1.945E-09	1.601E-09	1.336E-09	1.136E-09
ENE	9.985E-09	1.564E-08	1.007E-08	5.565E-09	3.542E-09	2.483E-09	1.951E-09	1.580E-09	1.281E-09	1.064E-09	9.002E-10
E	9.658E-09	1.243E-08	7.947E-09	4.353E-09	2.763E-09	1.932E-09	1.437E-09	1.115E-09	9.281E-10	7.839E-10	6.574E-10
ESE	1.263E-08	1.459E-08	9.340E-09	5.122E-09	3.253E-09	2.276E-09	1.694E-09	1.316E-09	1.055E-09	8.664E-10	7.253E-10
SE	1.718E-08	1.048E-08	8.125E-09	5.958E-09	4.421E-09	3.541E-09	2.975E-09	2.567E-09	2.112E-09	1.777E-09	1.521E-09
SSE	2.586E-08	3.486E-08	2.184E-08	1.176E-08	7.474E-09	5.243E-09	3.916E-09	3.054E-09	2.459E-09	2.028E-09	1.704E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
	SEGMENT BOUNDARIES IN MILES FROM THE SITE									
S	7.414E-08	7.036E-08	4.960E-08	3.819E-08	4.059E-08	2.388E-08	8.653E-09	3.832E-09	2.202E-09	1.460E-09
SSW	5.908E-08	4.368E-08	3.075E-08	2.876E-08	2.393E-08	1.496E-08	5.739E-09	2.607E-09	1.536E-09	1.028E-09
SW	5.583E-08	9.065E-08	5.664E-08	3.398E-08	2.375E-08	1.489E-08	5.953E-09	2.801E-09	1.693E-09	1.134E-09
WSW	5.426E-08	1.220E-07	7.719E-08	4.573E-08	3.168E-08	1.925E-08	8.670E-09	4.128E-09	2.461E-09	1.665E-09
W	2.158E-07	2.370E-07	1.262E-07	7.202E-08	4.765E-08	2.300E-08	9.396E-09	4.616E-09	2.716E-09	1.820E-09
WNW	2.065E-07	3.499E-07	2.026E-07	1.226E-07	8.162E-08	3.918E-08	1.456E-08	6.563E-09	3.867E-09	2.587E-09
NW	1.872E-07	4.197E-07	2.394E-07	1.348E-07	8.757E-08	4.126E-08	1.512E-08	6.803E-09	4.035E-09	2.706E-09
NNW	7.355E-08	1.691E-07	1.774E-07	1.503E-07	1.054E-07	5.134E-08	1.800E-08	7.808E-09	4.581E-09	3.134E-09
N	4.494E-08	5.642E-08	4.643E-08	3.385E-08	2.547E-08	1.503E-08	9.970E-09	7.015E-09	4.444E-09	3.036E-09
NNE	1.915E-08	3.076E-08	2.567E-08	1.884E-08	1.543E-08	1.992E-08	9.463E-09	4.251E-09	2.505E-09	1.682E-09
NE	9.652E-09	1.974E-08	1.744E-08	1.304E-08	1.081E-08	1.479E-08	7.122E-09	3.223E-09	1.953E-09	1.341E-09
ENE	8.751E-09	1.807E-08	1.607E-08	1.206E-08	9.897E-09	1.191E-08	5.668E-09	2.553E-09	1.572E-09	1.068E-09
E	9.808E-09	1.932E-08	1.686E-08	1.238E-08	9.844E-09	9.822E-09	4.445E-09	1.955E-09	1.136E-09	7.797E-10
ESE	1.546E-08	2.737E-08	2.268E-08	1.640E-08	1.295E-08	1.182E-08	5.229E-09	2.304E-09	1.325E-09	8.700E-10
SE	2.742E-08	4.522E-08	3.670E-08	2.633E-08	1.958E-08	1.092E-08	5.756E-09	3.549E-09	2.510E-09	1.782E-09
SSE	4.429E-08	6.125E-08	4.732E-08	3.325E-08	2.611E-08	2.707E-08	1.209E-08	5.307E-09	3.073E-09	2.036E-09

ERP ELEVATED STACK RELEASES - JAN-DEC 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) AT FIXED POINTS BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	DISTANCES IN MILES .25	.50	.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	4.520E-09	3.951E-09	3.764E-09	2.832E-09	1.479E-09	9.330E-10	6.400E-10	4.632E-10	3.482E-10	2.873E-10	2.552E-10
SSW	3.421E-09	2.809E-09	2.427E-09	1.698E-09	8.388E-10	5.177E-10	3.511E-10	2.526E-10	2.307E-10	1.744E-10	1.366E-10
SW	1.336E-09	1.203E-09	1.193E-09	9.226E-10	8.510E-10	4.627E-10	2.870E-10	1.951E-10	1.411E-10	1.068E-10	8.364E-11
WSW	6.841E-10	6.973E-10	8.010E-10	1.220E-09	7.002E-10	3.791E-10	2.341E-10	1.586E-10	1.145E-10	8.651E-11	6.769E-11
W	1.025E-09	3.805E-09	3.310E-09	2.212E-09	1.026E-09	5.536E-10	3.415E-10	2.314E-10	1.673E-10	1.268E-10	9.964E-11
WNW	8.094E-10	1.109E-09	3.815E-09	3.465E-09	2.055E-09	1.057E-09	6.351E-10	4.277E-10	3.341E-10	2.596E-10	2.132E-10
NW	1.163E-09	1.529E-09	2.161E-09	4.735E-09	3.110E-09	1.552E-09	9.202E-10	6.144E-10	4.485E-10	3.510E-10	2.909E-10
NNW	1.996E-09	2.097E-09	2.482E-09	2.116E-09	2.231E-09	1.211E-09	7.519E-10	6.384E-10	4.789E-10	3.874E-10	3.327E-10
N	4.249E-09	3.688E-09	3.478E-09	2.599E-09	1.350E-09	8.503E-10	5.827E-10	4.215E-10	3.168E-10	2.451E-10	1.941E-10
NNE	6.409E-10	7.787E-10	1.043E-09	9.389E-10	5.480E-10	3.597E-10	2.516E-10	1.839E-10	1.389E-10	1.077E-10	8.530E-11
NE	3.892E-11	2.335E-10	4.972E-10	5.150E-10	3.217E-10	2.157E-10	1.523E-10	1.119E-10	8.476E-11	6.578E-11	5.210E-11
ENE	3.560E-11	2.136E-10	4.547E-10	4.710E-10	2.942E-10	1.973E-10	1.393E-10	1.024E-10	7.753E-11	6.017E-11	4.765E-11
E	2.277E-10	3.442E-10	5.278E-10	4.996E-10	2.993E-10	1.981E-10	1.391E-10	1.019E-10	7.703E-11	5.975E-11	4.732E-11
ESE	1.951E-10	4.893E-10	9.052E-10	9.062E-10	5.575E-10	3.721E-10	2.623E-10	1.925E-10	1.457E-10	1.131E-10	8.953E-11
SE	7.097E-10	1.191E-09	1.922E-09	1.849E-09	1.117E-09	7.411E-10	5.209E-10	3.817E-10	2.888E-10	2.240E-10	1.774E-10
SSE	1.715E-09	2.113E-09	2.859E-09	2.585E-09	1.512E-09	9.934E-10	6.950E-10	5.081E-10	3.839E-10	2.977E-10	2.357E-10

DIRECTION FROM SITE	DISTANCES IN MILES 5.00	7.50	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00
S	2.053E-10	1.371E-10	9.247E-11	5.311E-11	3.368E-11	2.483E-11	1.777E-11	1.332E-11	1.035E-11	8.239E-12	6.728E-12
SSW	1.104E-10	7.707E-11	5.268E-11	3.067E-11	2.007E-11	1.379E-11	9.894E-12	7.437E-12	5.799E-12	4.632E-12	3.781E-12
SW	6.809E-11	5.753E-11	4.099E-11	2.463E-11	1.574E-11	1.056E-11	7.417E-12	5.569E-12	4.330E-12	3.459E-12	2.823E-12
WSW	5.446E-11	5.815E-11	4.320E-11	2.561E-11	1.550E-11	1.040E-11	7.580E-12	5.692E-12	4.425E-12	3.535E-12	2.885E-12
W	8.058E-11	3.715E-11	5.717E-11	3.723E-11	2.168E-11	1.478E-11	1.059E-11	7.951E-12	6.182E-12	4.938E-12	4.031E-12
WNW	1.856E-10	1.124E-10	8.031E-11	4.829E-11	3.127E-11	2.088E-11	1.429E-11	1.073E-11	8.485E-12	6.778E-12	5.533E-12
NW	2.532E-10	1.570E-10	1.135E-10	6.925E-11	4.246E-11	2.841E-11	2.030E-11	1.525E-11	1.193E-11	9.532E-12	7.780E-12
NNW	2.996E-10	2.046E-10	1.542E-10	9.657E-11	6.205E-11	4.112E-11	2.753E-11	1.969E-11	1.518E-11	1.212E-11	9.897E-12
N	1.566E-10	7.450E-11	4.566E-11	2.431E-11	6.732E-11	3.957E-11	2.833E-11	2.127E-11	1.654E-11	1.321E-11	1.079E-11
NNE	6.874E-11	1.237E-10	7.680E-11	3.999E-11	2.443E-11	1.635E-11	1.167E-11	8.732E-12	6.768E-12	5.393E-12	4.393E-12
NE	4.196E-11	8.541E-11	5.353E-11	2.817E-11	1.726E-11	1.154E-11	8.176E-12	6.101E-12	4.744E-12	3.814E-12	3.113E-12
ENE	3.838E-11	5.868E-11	4.451E-11	2.798E-11	1.796E-11	1.187E-11	8.303E-12	5.429E-12	4.220E-12	3.372E-12	2.753E-12
E	3.812E-11	4.315E-11	3.125E-11	1.898E-11	1.211E-11	8.030E-12	5.648E-12	4.148E-12	3.170E-12	2.493E-12	2.030E-12
ESE	7.212E-11	7.931E-11	5.709E-11	3.450E-11	2.195E-11	1.455E-11	1.023E-11	7.514E-12	5.738E-12	4.516E-12	3.641E-12
SE	1.429E-10	6.772E-11	4.131E-11	2.175E-11	1.328E-11	9.162E-12	6.888E-12	1.470E-11	1.128E-11	8.917E-12	7.230E-12
SSE	1.900E-10	2.188E-10	1.357E-10	7.057E-11	4.309E-11	2.884E-11	2.060E-11	1.541E-11	1.195E-11	9.519E-12	7.753E-12

********** RELATIVE DEPOSITION PER UNIT AREA (M**-2) BY DOWNWIND SECTORS **********

DIRECTION FROM SITE	SEGMENT BOUNDARIES IN MILES .5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	3.391E-09	1.537E-09	6.474E-10	3.579E-10	2.463E-10	1.324E-10	5.322E-11	2.436E-11	1.346E-11	8.306E-12
SSW	2.188E-09	8.871E-10	3.561E-10	2.155E-10	1.381E-10	7.363E-11	3.085E-11	1.391E-11	7.515E-12	4.663E-12
SW	1.075E-09	6.944E-10	2.971E-10	1.435E-10	8.475E-11	5.253E-11	2.432E-11	1.069E-11	5.625E-12	3.482E-12
WSW	9.643E-10	6.730E-10	2.426E-10	1.164E-10	6.837E-11	5.069E-11	2.503E-11	1.063E-11	5.749E-12	3.558E-12
W	2.932E-09	1.079E-09	3.540E-10	1.702E-10	1.006E-10	5.570E-11	3.475E-11	1.494E-11	8.031E-12	4.971E-12
WNW	3.058E-09	1.925E-09	6.647E-10	3.325E-10	2.167E-10	1.144E-10	4.784E-11	2.101E-11	1.089E-11	6.823E-12
NW	3.165E-09	2.779E-09	9.663E-10	4.587E-10	2.948E-10	1.590E-10	6.717E-11	2.892E-11	1.543E-11	9.595E-12
NNW	2.234E-09	1.752E-09	8.288E-10	4.896E-10	3.366E-10	2.033E-10	9.403E-11	4.127E-11	2.021E-11	1.220E-11
N	3.134E-09	1.406E-09	5.896E-10	3.194E-10	1.953E-10	7.992E-11	4.817E-11	4.248E-11	2.149E-11	1.330E-11
NNE	9.379E-10	5.512E-10	2.533E-10	1.399E-10	8.581E-11	9.064E-11	4.125E-11	1.663E-11	8.824E-12	5.430E-12
NE	4.465E-10	3.175E-10	1.531E-10	8.529E-11	5.240E-11	6.159E-11	2.896E-11	1.172E-11	6.177E-12	3.830E-12
ENE	4.084E-10	2.904E-10	1.400E-10	7.801E-11	4.793E-11	4.787E-11	2.720E-11	1.207E-11	5.790E-12	3.394E-12
E	4.745E-10	2.988E-10	1.399E-10	7.754E-11	4.760E-11	3.674E-11	1.865E-11	8.164E-12	4.204E-12	2.522E-12
ESE	8.132E-10	5.526E-10	2.636E-10	1.466E-10	9.005E-11	6.784E-11	3.394E-11	1.480E-11	7.614E-12	4.554E-12
SE	1.727E-09	1.113E-09	5.240E-10	2.907E-10	1.785E-10	7.269E-11	2.233E-11	9.350E-12	1.116E-11	8.991E-12
SSE	2.572E-09	1.520E-09	6.998E-10	3.865E-10	2.371E-10	1.755E-10	7.284E-11	2.934E-11	1.557E-11	9.584E-12

ERP ELEVATED STACK RELEASES - JAN-DEC 2025
CORRECTED USING STANDARD OPEN TERRAIN FACTORS

SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION FROM SITE	DIST. (MI)	X/Q (SEC/M3) NO DECAY UNDEPLETED	X/Q (SEC/M3) 2.26 DAY DECAY UNDEPLETED	X/Q (SEC/M3) 8.0 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	Site Boundary	S	.80	8.1E-08	8.1E-08	8.0E-08	3.6E-09
A	Site Boundary	SSW	.82	6.5E-08	6.5E-08	6.3E-08	2.2E-09
A	Site Boundary	SW	.97	7.6E-08	7.6E-08	7.6E-08	9.6E-10
A	Site Boundary	WSW	.93	7.4E-08	7.3E-08	7.3E-08	1.1E-09
A	Site Boundary	W	.91	2.7E-07	2.7E-07	2.7E-07	2.4E-09
A	Site Boundary	WNW	.94	2.9E-07	2.9E-07	2.9E-07	3.9E-09
A	Site Boundary	NW	.81	1.7E-07	1.7E-07	1.7E-07	2.2E-09
A	Site Boundary	NNW	.69	4.2E-08	4.2E-08	4.2E-08	2.4E-09
A	Site Boundary	N	.67	3.8E-08	3.8E-08	3.7E-08	3.5E-09
A	Site Boundary	NNE	.60	8.8E-09	8.8E-09	8.8E-09	8.7E-10
A	Site Boundary	NE	.62	2.8E-09	2.8E-09	2.8E-09	3.6E-10
A	Site Boundary	ENE	.59	1.7E-09	1.6E-09	1.6E-09	3.0E-10
A	Site Boundary	E	.53	1.4E-09	1.4E-09	1.4E-09	3.6E-10
A	Site Boundary	ESE	.54	2.7E-09	2.7E-09	2.7E-09	5.5E-10
A	Site Boundary	SE	.65	1.4E-08	1.4E-08	1.4E-08	1.6E-09
A	Site Boundary	SSE	.81	4.8E-08	4.8E-08	4.8E-08	2.9E-09
A	Nearest Res	SW	1.30	1.1E-07	1.1E-07	1.1E-07	1.1E-09
A	Nearest Res	WSW	1.90	1.2E-07	1.2E-07	1.2E-07	4.2E-10
A	Nearest Res	WNW	2.50	2.0E-07	2.0E-07	2.0E-07	6.4E-10
A	Nearest Res	NW	1.20	4.6E-07	4.6E-07	4.6E-07	3.5E-09
A	Nearest Res	NNW	2.00	1.9E-07	1.9E-07	1.9E-07	1.2E-09
A	Nearest Res	NE	1.70	2.2E-08	2.2E-08	2.1E-08	2.7E-10
A	Nearest Res	E	1.90	2.1E-08	2.1E-08	2.0E-08	2.1E-10
A	Nearest Cow	NNW	3.50	1.6E-07	1.6E-07	1.6E-07	4.8E-10
A	Nearest Garde	SW	2.20	7.0E-08	6.9E-08	6.8E-08	3.8E-10
A	Nearest Garde	WSW	2.50	7.8E-08	7.8E-08	7.6E-08	2.3E-10
A	Nearest Garde	WNW	2.70	1.8E-07	1.8E-07	1.8E-07	5.3E-10
A	Nearest Garde	NNW	2.70	1.8E-07	1.8E-07	1.8E-07	7.3E-10
A	Nearest Garde	ENE	1.70	2.0E-08	2.0E-08	2.0E-08	2.5E-10
A	Nearest Garde	E	1.90	2.1E-08	2.1E-08	2.0E-08	2.1E-10
A	Nearest Garde	ESE	2.20	2.6E-08	2.6E-08	2.6E-08	3.2E-10
A	Nearest Garde	SE	1.90	4.6E-08	4.6E-08	4.6E-08	8.0E-10
A	MAXIMUM CHI/Q	S	1.00	8.3E-08	8.2E-08	8.1E-08	2.8E-09
A	MAXIMUM CHI/Q	SSW	.75	6.7E-08	6.7E-08	6.6E-08	2.4E-09
A	MAXIMUM CHI/Q	SW	1.50	1.2E-07	1.2E-07	1.2E-07	8.5E-10
A	MAXIMUM CHI/Q	WSW	1.50	1.7E-07	1.7E-07	1.6E-07	7.0E-10
A	MAXIMUM CHI/Q	W	1.00	2.9E-07	2.9E-07	2.8E-07	2.2E-09
A	MAXIMUM CHI/Q	WNW	1.50	4.6E-07	4.6E-07	4.5E-07	2.1E-09
A	MAXIMUM CHI/Q	NW	1.50	5.9E-07	5.9E-07	5.8E-07	3.1E-09
A	MAXIMUM CHI/Q	NNW	2.00	1.9E-07	1.9E-07	1.9E-07	1.2E-09
A	MAXIMUM CHI/Q	N	1.50	6.1E-08	6.0E-08	6.0E-08	1.4E-09
A	MAXIMUM CHI/Q	NNE	1.50	3.4E-08	3.4E-08	3.3E-08	5.5E-10
A	MAXIMUM CHI/Q	NE	1.50	2.2E-08	2.2E-08	2.2E-08	3.2E-10
A	MAXIMUM CHI/Q	ENE	1.50	2.0E-08	2.0E-08	2.0E-08	2.9E-10
A	MAXIMUM CHI/Q	E	1.50	2.1E-08	2.1E-08	2.1E-08	3.0E-10
A	MAXIMUM CHI/Q	ESE	1.50	3.0E-08	3.0E-08	3.0E-08	5.6E-10
A	MAXIMUM CHI/Q	SE	1.50	5.0E-08	5.0E-08	4.9E-08	1.1E-09
A	MAXIMUM CHI/Q	SSE	1.50	6.7E-08	6.7E-08	6.6E-08	1.5E-09

ATMOSPHERIC DIFFUSION MODEL

Onsite meteorological data from January 1 through December 31, 2025 were used to determine long-term (routine) diffusion estimates for evaluating normal atmospheric releases from Cooper Nuclear Station. Atmospheric dispersion parameters (X/Q values) were determined for the site boundary distances from each release point, the standard population distances, and special locations for nearest residence, cow, and garden using the methodology presented in U.S. NRC Regulatory Guide 1.111 (Rev.1) and the computer code XOQDOQ (NUREG/CR2919). Two release modes were analyzed. Releases from the 99-meter free-standing stack were considered 100 percent elevated, while releases from the reactor building, turbine-generator building, radwaste building and augmented radwaste building vents were considered as a 100 percent ground level release (one combined source term was assumed to apply for these vents).

Winds were obtained from measurements at the 10-meter level (for ground-level releases) and the 100-meter level (for elevated releases), and the stability class was based on the vertical temperature gradient between 60 meters and 10 meters (for ground releases) and 100 meters and 10 meters (for elevated releases). In accordance with Regulatory Guide 1.111, calm periods were distributed directionally in proportion to the directional distribution within a stability class of the lowest wind speed group. For the calculations, calm periods were assigned a speed of one-half the threshold wind speed of the wind vane or anemometer, whichever is higher.

The Gaussian straight-line trajectory model, which assumes that the air flow transports and diffuses effluents along a straight line through the entire region of interest in the airflow direction at the release point, was modified to account for various modes of effluent releases. In the case of an elevated release, plume rise due to momentum effects was incorporated into the calculation. For ground-level releases, building wake effects were considered.

The mathematical equation used in the Gaussian straight-line trajectory model is:

$$(X/Q)_I = 2.032 \sum_{jk} \frac{f_{ijk}}{x u_{jk} \Sigma_{zk}} \exp\left[\frac{-\frac{1}{2} h_e^2}{\sigma_{zk}^2}\right] \qquad \text{(Eq. 1)}$$

and

$$\Sigma_{zk} = \left(\sigma_{zk}^2 + 0.5 D_z^2/\pi\right)^{1/2} \le \sqrt{3}\sigma_{zk} \qquad \text{(Eq. 2)}$$

where I = index identifying direction sector;

j = index identifying wind speed class;

k = index identifying atmospheric stability class;

$\frac{X}{Q}$ = average effluent concentration normalized by source strength at the specific downwind distance;

f = joint frequency distribution of wind direction, wind speed class, and atmospheric stability class;

x = distance from the release point to a receptor;

u = wind speed;

Σ_z = vertical plume spread with volumetric building wake correction for a release within the building wake cavity;

σ_z = vertical plume spread without volumetric building wake correction;

D_z = maximum adjacent building height either upwind or downwind of the release point (44.5 meters for ground-level releases); and

h_e = effective plume height;

The term Σ_{zk} given in Equations 1 and 2 is used for ground-level release ($h = 0$) within the building wake cavity. For an elevated release, no volumetric building wake correction needs to be considered, i.e., $\Sigma_{zk} = \sigma_{zk}$. For all building wake determinations, the reactor building was considered to be the dominating structure in the modification of air flows within the building complex.

Since the model does not directly consider the effects of spatial and temporal variation in airflow due to terrain, appropriate adjustments were made to the calculated X/Q values, using the default values of Regulatory Guide 1.111, Rev. 0.

APPENDIX C

DOSE CALCULATIONS

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LIQUID EFFLUENT DOSE CALCULATIONS

Doses to the maximum individual and 0 to 50 - mile population resulting from the release of radioactive material in liquid effluents from Cooper Nuclear Station were calculated using the latest version of the LADTAP II computer program included as part of NRCDose 2.3.20 (ORNL 2015). The LADTAP II program implements the radiological dose models of Regulatory Guide 1.109 for determining the radiation exposure to man from three principal exposure pathways in the aquatic environment -- potable water, aquatic foods, and recreational water use. Doses to both the maximum individual and 0 to 50 mile population are calculated as a function of age group and pathway for significant body organs, and are presented in Tables 1 - 6.

Assumptions and data sources used for input to the LADTAP II code are described in a separate section of this appendix (see page C66).

No Liquid Releases in 2025

TABLE 1. Doses to Maximum Individual at the Site Boundary, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, January-June 2025 Cooper Nuclear Station

Period and Pathway	Dose to Individual, mrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter								
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
2nd Quarter								
Eating Fish		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
Totals for 1st & 2nd Quarters	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**

Calculated doses are based on the following periods of exposures: Fishing: April - November; Drinking water and shoreline: January - December

TABLE 2. Doses to Maximum Individual at the Site Boundary, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, July-December 2025, Cooper Nuclear Station

Period and Pathway	Dose to Individual, mrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
3rd Quarter								
Eating Fish		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
4th Quarter								
Eating Fish		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
Totals for 3rd & 4th Quarters	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**

Calculated doses are based on the following periods of exposures: Fishing: April - November; Drinking water and shoreline: January - December

TABLE 3. Summary of Doses to Maximum Individual at the Site Boundary, Resulting from Exposure to Radioactivity Discharged in Liquid Effluents, January-December 2025, Cooper Nuclear Station

Period and Pathway	Dose to Individual, mrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
2nd Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+001	0.00 E+00	0.00 E+00
3rd Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
4th Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals for 2025	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**

TABLE 4. Doses to Population Within a 50-Mile Radius, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, January-June 2025, Cooper Nuclear Station

Period and Pathway	Dose to Population, manrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter								
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
2nd Quarter								
Eating Fish		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Swimming	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Boating	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
Totals for 1st & 2nd Quarters	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**

Calculated doses are based on the following periods of exposures: Fishing and Boating: April - November; Drinking water and shoreline: January - December; Swimming: June - September. Exposure from drinking water is calculated for the city of St. Joseph, Missouri, nearest public water intake from the Missouri River, 84 miles downstream.

TABLE 5. Doses to Population Within a 50-Mile Radius, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, July-December 2025, Cooper Nuclear Station

Period and Pathway	Dose to Population, manrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
3rd Quarter								
Eating Fish		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Swimming	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Boating	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
4th Quarter								
Eating Fish		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Drinking Water		0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Shoreline	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Boating	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**
Totals for 3rd & 4th Quarters	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**

Calculated doses are based on the following periods of exposures: Fishing and Boating: April - November; Drinking water and shoreline: January - December; Swimming: June - September. Exposure from drinking water is calculated for the city of St. Joseph, Missouri, nearest public water intake from the Missouri River, 84 miles downstream.

TABLE 6. Summary of Doses to Population Within a 50-Mile Radius, Resulting from Exposure to Radioactivity Discharged in Liquid Effluents, January-December 2025 Cooper Nuclear Station

Period and Pathway	Dose to Population, manrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
2nd Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
3rd Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
4th Quarter	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00	0.00 E+00
Totals for 2025	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**	**0.00 E+00**

GASEOUS EFFLUENT DOSE CALCULATIONS (EXCEPT CARBON-14)

Doses to the maximum individual and 0 to 50 mile population resulting from the release of radioactive material in gaseous effluents from the Cooper Nuclear Station were calculated using the latest version of the GASPAR computer code included as part of NRCDose 2.3.20 (ORNL 2015). Four sites were selected for individual dose calculations: the site boundary, the nearest residence, the nearest garden and the nearest cow. GASPAR implements the radiological dose models of Regulatory Guide 1.109 for determining the radiation exposure to man from four principal atmospheric exposure pathways: plume, ground, inhalation, and ingestion. Doses to the maximum individual and the population are calculated as a function of age group and pathway for significant body organs.

Tables 1 through 7 present maximum individual doses. Population doses are given in Tables 8 through 14.

Assumptions and data used for input to the GASPAR code are described in a separate section of this appendix (see page C66).

TABLE 1. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 2025

SPECIAL LOCATION NO. 1A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 4.45E-06 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.31E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	8.77E-06	8.77E-06	8.77E-06	8.77E-06	8.77E-06	8.77E-06	8.78E-06	1.37E-05
GROUND	1.74E-04	1.74E-04	1.74E-04	1.74E-04	1.74E-04	1.74E-04	1.74E-04	2.04E-04
VEGET								
ADULT	2.63E-06	2.22E-05	8.60E-08	1.21E-06	5.20E-08	9.83E-06	5.59E-20	0.00E+00
TEEN	4.12E-06	2.37E-05	1.40E-07	1.86E-06	7.85E-08	1.32E-05	6.31E-20	0.00E+00
CHILD	8.29E-06	1.55E-05	3.40E-07	2.87E-06	1.26E-07	2.53E-05	7.54E-20	0.00E+00
MEAT								
ADULT	7.05E-07	6.00E-06	1.19E-09	3.20E-07	1.38E-09	2.63E-07	0.00E+00	0.00E+00
TEEN	5.59E-07	3.23E-06	9.98E-10	2.49E-07	1.12E-09	1.91E-07	0.00E+00	0.00E+00
CHILD	8.69E-07	1.63E-06	1.87E-09	2.95E-07	1.43E-09	2.88E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	1.67E-07	1.32E-06	1.91E-08	9.29E-08	3.99E-08	7.42E-06	8.40E-26	0.00E+00
TEEN	2.88E-07	1.55E-06	3.48E-08	1.59E-07	7.11E-08	1.17E-05	1.86E-25	0.00E+00
CHILD	5.82E-07	1.02E-06	8.47E-08	2.55E-07	1.18E-07	2.33E-05	2.97E-25	0.00E+00
INFANT	9.61E-07	8.99E-07	1.74E-07	5.51E-07	2.06E-07	5.66E-05	8.08E-25	0.00E+00
GOATMILK								
ADULT	3.43E-08	1.66E-07	2.57E-08	3.62E-08	4.78E-08	8.90E-06	1.01E-26	0.00E+00
TEEN	5.83E-08	1.97E-07	4.68E-08	6.37E-08	8.53E-08	1.41E-05	2.24E-26	0.00E+00
CHILD	1.14E-07	1.32E-07	1.14E-07	1.08E-07	1.42E-07	2.80E-05	3.56E-26	0.00E+00
INFANT	1.99E-07	1.17E-07	2.33E-07	2.56E-07	2.47E-07	6.80E-05	9.69E-26	0.00E+00
INHAL								
ADULT	3.34E-08	6.41E-07	1.22E-10	2.61E-08	2.95E-10	3.91E-08	1.34E-05	0.00E+00
TEEN	4.47E-08	5.84E-07	1.72E-10	3.42E-08	4.08E-10	4.98E-08	1.96E-05	0.00E+00
CHILD	5.10E-08	2.23E-07	2.35E-10	2.98E-08	3.83E-10	5.91E-08	1.59E-05	0.00E+00
INFANT	2.66E-08	7.75E-08	1.83E-10	1.83E-08	2.53E-10	5.43E-08	1.01E-05	0.00E+00

TABLE 1. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 2025 (Continued)

SPECIAL LOCATION NO. 2A Site Boundary
AT .60 MILES NNE

ANNUAL BETA AIR DOSE = 1.78E-06 MILLRADS
ANNUAL GAMMA AIR DOSE = 5.25E-06 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.51E-06	3.51E-06	3.51E-06	3.51E-06	3.51E-06	3.51E-06	3.51E-06	5.50E-06
GROUND	1.56E-04	1.56E-04	1.56E-04	1.56E-04	1.56E-04	1.56E-04	1.56E-04	1.84E-04
VEGET								
ADULT	2.36E-06	2.00E-05	4.49E-08	1.08E-06	2.71E-08	5.13E-06	2.92E-20	0.00E+00
TEEN	3.70E-06	2.13E-05	7.32E-08	1.66E-06	4.09E-08	6.90E-06	3.29E-20	0.00E+00
CHILD	7.44E-06	1.39E-05	1.77E-07	2.55E-06	6.59E-08	1.32E-05	3.93E-20	0.00E+00
MEAT								
ADULT	6.34E-07	5.40E-06	6.22E-10	2.88E-07	7.19E-10	1.37E-07	0.00E+00	0.00E+00
TEEN	5.03E-07	2.90E-06	5.21E-10	2.23E-07	5.87E-10	9.95E-08	0.00E+00	0.00E+00
CHILD	7.81E-07	1.47E-06	9.76E-10	2.65E-07	7.46E-10	1.50E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	1.45E-07	1.18E-06	9.99E-09	7.48E-08	2.08E-08	3.87E-06	4.38E-26	0.00E+00
TEEN	2.51E-07	1.39E-06	1.82E-08	1.28E-07	3.71E-08	6.13E-06	9.73E-26	0.00E+00
CHILD	5.08E-07	9.18E-07	4.42E-08	2.03E-07	6.17E-08	1.22E-05	1.55E-25	0.00E+00
INFANT	8.36E-07	8.06E-07	9.10E-08	4.29E-07	1.07E-07	2.95E-05	4.21E-25	0.00E+00
GOATMILK								
ADULT	2.48E-08	1.46E-07	1.34E-08	2.21E-08	2.50E-08	4.64E-06	5.26E-27	0.00E+00
TEEN	4.25E-08	1.73E-07	2.44E-08	3.86E-08	4.45E-08	7.36E-06	1.17E-26	0.00E+00
CHILD	8.40E-08	1.15E-07	5.95E-08	6.49E-08	7.40E-08	1.46E-05	1.86E-26	0.00E+00
INFANT	1.44E-07	1.01E-07	1.22E-07	1.51E-07	1.29E-07	3.55E-05	5.06E-26	0.00E+00
INHAL								
ADULT	2.44E-08	4.70E-07	4.86E-11	1.91E-08	1.17E-10	1.56E-08	9.84E-06	0.00E+00
TEEN	3.28E-08	4.28E-07	6.85E-11	2.50E-08	1.62E-10	1.98E-08	1.44E-05	0.00E+00
CHILD	3.74E-08	1.61E-07	9.33E-11	2.18E-08	1.52E-10	2.35E-08	1.17E-05	0.00E+00
INFANT	1.95E-08	5.49E-08	7.27E-11	1.33E-08	1.01E-10	2.16E-08	7.44E-06	0.00E+00

TABLE 1. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 2025 (Continued)

SPECIAL LOCATION NO. 3A Nearest Resident
AT 1.20 MILES NW

ANNUAL BETA AIR DOSE = 2.71E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 7.99E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.34E-05	5.34E-05	5.34E-05	5.34E-05	5.34E-05	5.34E-05	5.35E-05	8.37E-05
GROUND	1.78E-05	1.78E-05	1.78E-05	1.78E-05	1.78E-05	1.78E-05	1.78E-05	2.09E-05
VEGET								
ADULT	2.76E-07	2.29E-06	4.11E-08	1.36E-07	2.49E-08	4.70E-06	2.68E-20	0.00E+00
TEEN	4.32E-07	2.43E-06	6.71E-08	2.08E-07	3.75E-08	6.32E-06	3.02E-20	0.00E+00
CHILD	8.68E-07	1.59E-06	1.63E-07	3.23E-07	6.04E-08	1.21E-05	3.60E-20	0.00E+00
MEAT								
ADULT	7.24E-08	6.15E-07	5.70E-10	3.31E-08	6.59E-10	1.26E-07	0.00E+00	0.00E+00
TEEN	5.74E-08	3.31E-07	4.77E-10	2.57E-08	5.38E-10	9.12E-08	0.00E+00	0.00E+00
CHILD	8.91E-08	1.67E-07	8.95E-10	3.06E-08	6.84E-10	1.38E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	2.20E-08	1.38E-07	9.15E-09	1.82E-08	1.91E-08	3.55E-06	4.02E-26	0.00E+00
TEEN	3.77E-08	1.62E-07	1.67E-08	3.18E-08	3.40E-08	5.62E-06	8.92E-26	0.00E+00
CHILD	7.48E-08	1.08E-07	4.05E-08	5.32E-08	5.65E-08	1.11E-05	1.42E-25	0.00E+00
INFANT	1.27E-07	9.51E-08	8.34E-08	1.23E-07	9.84E-08	2.71E-05	3.86E-25	0.00E+00
GOATMILK								
ADULT	9.45E-09	2.05E-08	1.23E-08	1.42E-08	2.29E-08	4.26E-06	4.82E-27	0.00E+00
TEEN	1.59E-08	2.49E-08	2.24E-08	2.51E-08	4.08E-08	6.74E-06	1.07E-26	0.00E+00
CHILD	3.01E-08	1.73E-08	5.46E-08	4.36E-08	6.78E-08	1.34E-05	1.70E-26	0.00E+00
INFANT	5.54E-08	1.57E-08	1.11E-07	1.06E-07	1.18E-07	3.25E-05	4.64E-26	0.00E+00
INHAL								
ADULT	2.89E-09	4.82E-08	7.44E-10	2.94E-09	1.80E-09	2.38E-07	9.90E-07	0.00E+00
TEEN	3.87E-09	4.79E-08	1.05E-09	3.93E-09	2.48E-09	3.03E-07	1.45E-06	0.00E+00
CHILD	4.40E-09	5.57E-08	1.43E-09	3.58E-09	2.33E-09	3.60E-07	1.17E-06	0.00E+00
INFANT	2.42E-09	4.02E-08	1.11E-09	2.65E-09	1.54E-09	3.30E-07	7.50E-07	0.00E+00

TABLE 1. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 2025 (Continued)

SPECIAL LOCATION NO. 4A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 2.13E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 6.28E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.19E-05	4.19E-05	4.19E-05	4.19E-05	4.19E-05	4.19E-05	4.20E-05	6.58E-05
GROUND	2.01E-06	2.01E-06	2.01E-06	2.01E-06	2.01E-06	2.01E-06	2.01E-06	2.36E-06
VEGET								
ADULT	3.29E-08	2.59E-07	1.23E-08	1.80E-08	7.46E-09	1.41E-06	8.03E-21	0.00E+00
TEEN	5.12E-08	2.76E-07	2.01E-08	2.75E-08	1.13E-08	1.90E-06	9.06E-21	0.00E+00
CHILD	1.02E-07	1.81E-07	4.88E-08	4.33E-08	1.81E-08	3.63E-06	1.08E-20	0.00E+00
MEAT								
ADULT	8.20E-09	6.93E-08	1.71E-10	3.80E-09	1.98E-10	3.78E-08	0.00E+00	0.00E+00
TEEN	6.50E-09	3.73E-08	1.43E-10	2.96E-09	1.61E-10	2.74E-08	0.00E+00	0.00E+00
CHILD	1.01E-08	1.88E-08	2.69E-10	3.52E-09	2.05E-10	4.13E-08	0.00E+00	0.00E+00
COW MILK								
ADULT	3.66E-09	1.62E-08	2.75E-09	4.14E-09	5.72E-09	1.06E-06	1.21E-26	0.00E+00
TEEN	6.21E-09	1.92E-08	5.00E-09	7.28E-09	1.02E-08	1.69E-06	2.67E-26	0.00E+00
CHILD	1.21E-08	1.29E-08	1.22E-08	1.24E-08	1.70E-08	3.34E-06	4.26E-26	0.00E+00
INFANT	2.12E-08	1.14E-08	2.50E-08	2.96E-08	2.95E-08	8.12E-06	1.16E-25	0.00E+00
GOATMILK								
ADULT	2.48E-09	3.13E-09	3.69E-09	4.10E-09	6.86E-09	1.28E-06	1.45E-27	0.00E+00
TEEN	4.16E-09	3.92E-09	6.72E-09	7.27E-09	1.22E-08	2.02E-06	3.21E-27	0.00E+00
CHILD	7.80E-09	2.85E-09	1.64E-08	1.26E-08	2.04E-08	4.01E-06	5.11E-27	0.00E+00
INFANT	1.46E-08	2.67E-09	3.34E-08	3.08E-08	3.54E-08	9.75E-06	1.39E-26	0.00E+00
INHAL								
ADULT	8.20E-10	9.97E-09	5.84E-10	1.18E-09	1.41E-09	1.87E-07	1.93E-07	0.00E+00
TEEN	1.09E-09	1.22E-08	8.24E-10	1.61E-09	1.95E-09	2.38E-07	2.82E-07	0.00E+00
CHILD	1.24E-09	3.43E-08	1.12E-09	1.53E-09	1.83E-09	2.83E-07	2.29E-07	0.00E+00
INFANT	7.48E-10	2.85E-08	8.74E-10	1.29E-09	1.21E-09	2.59E-07	1.47E-07	0.00E+00

TABLE 1. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 2025 (Continued)

SPECIAL LOCATION NO. 5A Nearest Garden
AT 1.70 MILES ENE

ANNUAL BETA AIR DOSE = 1.24E-06 MILLRADS
ANNUAL GAMMA AIR DOSE = 3.42E-06 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.29E-06	2.29E-06	2.29E-06	2.29E-06	2.29E-06	2.29E-06	2.30E-06	3.60E-06
GROUND	8.35E-06	8.35E-06	8.35E-06	8.35E-06	8.35E-06	8.35E-06	8.35E-06	9.83E-06
VEGET								
ADULT	1.28E-07	1.07E-06	9.67E-09	6.02E-08	5.78E-09	1.09E-06	9.23E-22	0.00E+00
TEEN	2.00E-07	1.14E-06	1.58E-08	9.24E-08	8.74E-09	1.47E-06	1.04E-21	0.00E+00
CHILD	4.02E-07	7.46E-07	3.82E-08	1.43E-07	1.41E-08	2.82E-06	1.24E-21	0.00E+00
MEAT								
ADULT	3.39E-08	2.88E-07	1.34E-10	1.54E-08	1.54E-10	2.94E-08	0.00E+00	0.00E+00
TEEN	2.69E-08	1.55E-07	1.12E-10	1.20E-08	1.25E-10	2.13E-08	0.00E+00	0.00E+00
CHILD	4.18E-08	7.84E-08	2.10E-10	1.42E-08	1.59E-10	3.21E-08	0.00E+00	0.00E+00
COW MILK								
ADULT	8.85E-09	6.37E-08	2.13E-09	5.93E-09	4.42E-09	8.25E-07	1.39E-27	0.00E+00
TEEN	1.52E-08	7.50E-08	3.88E-09	1.03E-08	7.89E-09	1.31E-06	3.08E-27	0.00E+00
CHILD	3.05E-08	4.97E-08	9.43E-09	1.68E-08	1.31E-08	2.59E-06	4.90E-27	0.00E+00
INFANT	5.11E-08	4.37E-08	1.94E-08	3.75E-08	2.28E-08	6.30E-06	1.33E-26	0.00E+00
GOATMILK								
ADULT	2.65E-09	8.57E-09	2.86E-09	3.49E-09	5.31E-09	9.90E-07	1.66E-28	0.00E+00
TEEN	4.47E-09	1.02E-08	5.22E-09	6.17E-09	9.47E-09	1.57E-06	3.69E-28	0.00E+00
CHILD	8.58E-09	6.97E-09	1.27E-08	1.06E-08	1.57E-08	3.11E-06	5.87E-28	0.00E+00
INFANT	1.54E-08	6.24E-09	2.60E-08	2.56E-08	2.74E-08	7.56E-06	1.60E-27	0.00E+00
INHAL								
ADULT	2.07E-09	3.87E-08	1.03E-10	1.70E-09	2.46E-10	3.33E-08	8.09E-07	0.00E+00
TEEN	2.77E-09	3.53E-08	1.45E-10	2.25E-09	3.39E-10	4.23E-08	1.18E-06	0.00E+00
CHILD	3.16E-09	1.39E-08	1.97E-10	1.97E-09	3.19E-10	5.00E-08	9.58E-07	0.00E+00
INFANT	1.66E-09	5.08E-09	1.54E-10	1.27E-09	2.10E-10	4.59E-08	6.11E-07	0.00E+00

TABLE 2. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 2025

SPECIAL LOCATION NO. 1A Site Boundary
AT .54 MILES ESE

ANNUAL BETA AIR DOSE = 4.65E-07 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.36E-06 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	9.10E-07	9.10E-07	9.10E-07	9.10E-07	9.10E-07	9.10E-07	9.11E-07	1.42E-06
GROUND	1.88E-04	1.88E-04	1.88E-04	1.88E-04	1.88E-04	1.88E-04	1.88E-04	2.22E-04
VEGET								
ADULT	2.84E-06	2.41E-05	5.82E-08	1.30E-06	3.07E-08	5.78E-06	2.32E-20	0.00E+00
TEEN	4.45E-06	2.57E-05	9.51E-08	2.00E-06	4.63E-08	7.77E-06	2.62E-20	0.00E+00
CHILD	8.96E-06	1.68E-05	2.31E-07	3.07E-06	7.44E-08	1.49E-05	3.13E-20	0.00E+00
MEAT								
ADULT	7.64E-07	6.50E-06	7.74E-10	3.47E-07	8.10E-10	1.55E-07	0.00E+00	0.00E+00
TEEN	6.05E-07	3.50E-06	6.49E-10	2.69E-07	6.61E-10	1.12E-07	0.00E+00	0.00E+00
CHILD	9.41E-07	1.77E-06	1.22E-09	3.19E-07	8.40E-10	1.69E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	1.74E-07	1.42E-06	1.16E-08	8.92E-08	2.35E-08	4.37E-06	3.49E-26	0.00E+00
TEEN	3.01E-07	1.67E-06	2.12E-08	1.52E-07	4.20E-08	6.92E-06	7.74E-26	0.00E+00
CHILD	6.10E-07	1.11E-06	5.16E-08	2.41E-07	6.98E-08	1.37E-05	1.23E-25	0.00E+00
INFANT	1.00E-06	9.70E-07	1.06E-07	5.10E-07	1.22E-07	3.34E-05	3.35E-25	0.00E+00
GOATMILK								
ADULT	2.93E-08	1.76E-07	1.59E-08	2.55E-08	2.82E-08	5.24E-06	4.19E-27	0.00E+00
TEEN	5.02E-08	2.08E-07	2.90E-08	4.46E-08	5.04E-08	8.30E-06	9.29E-27	0.00E+00
CHILD	9.94E-08	1.38E-07	7.07E-08	7.48E-08	8.38E-08	1.65E-05	1.48E-26	0.00E+00
INFANT	1.70E-07	1.22E-07	1.44E-07	1.73E-07	1.46E-07	4.00E-05	4.02E-26	0.00E+00
INHAL								
ADULT	5.01E-08	9.63E-07	4.47E-11	3.90E-08	1.07E-10	1.39E-08	2.02E-05	0.00E+00
TEEN	6.71E-08	8.77E-07	6.30E-11	5.12E-08	1.48E-10	1.77E-08	2.95E-05	0.00E+00
CHILD	7.66E-08	3.27E-07	8.59E-11	4.45E-08	1.39E-10	2.11E-08	2.39E-05	0.00E+00
INFANT	3.98E-08	1.09E-07	6.68E-11	2.72E-08	9.21E-11	1.94E-08	1.52E-05	0.00E+00

TABLE 2. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 2025 (Continued)

SPECIAL LOCATION NO. 2A Site Boundary
AT .65 MILES SE

ANNUAL BETA AIR DOSE = 2.07E-06 MILLRADS
ANNUAL GAMMA AIR DOSE = 6.04E-06 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.04E-06	4.04E-06	4.04E-06	4.04E-06	4.04E-06	4.04E-06	4.05E-06	6.33E-06
GROUND	1.94E-04	1.94E-04	1.94E-04	1.94E-04	1.94E-04	1.94E-04	1.94E-04	2.28E-04
VEGET								
ADULT	2.94E-06	2.48E-05	1.36E-07	1.36E-06	7.17E-08	1.35E-05	5.43E-20	0.00E+00
TEEN	4.61E-06	2.65E-05	2.22E-07	2.09E-06	1.08E-07	1.82E-05	6.13E-20	0.00E+00
CHILD	9.27E-06	1.73E-05	5.39E-07	3.23E-06	1.74E-07	3.48E-05	7.32E-20	0.00E+00
MEAT								
ADULT	7.87E-07	6.70E-06	1.81E-09	3.58E-07	1.89E-09	3.61E-07	0.00E+00	0.00E+00
TEEN	6.24E-07	3.60E-06	1.52E-09	2.78E-07	1.55E-09	2.62E-07	0.00E+00	0.00E+00
CHILD	9.70E-07	1.82E-06	2.85E-09	3.30E-07	1.96E-09	3.95E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	1.90E-07	1.47E-06	2.72E-08	1.10E-07	5.50E-08	1.02E-05	8.16E-26	0.00E+00
TEEN	3.27E-07	1.73E-06	4.95E-08	1.89E-07	9.82E-08	1.62E-05	1.81E-25	0.00E+00
CHILD	6.60E-07	1.15E-06	1.21E-07	3.04E-07	1.63E-07	3.21E-05	2.88E-25	0.00E+00
INFANT	1.09E-06	1.01E-06	2.48E-07	6.61E-07	2.84E-07	7.80E-05	7.84E-25	0.00E+00
GOATMILK								
ADULT	4.24E-08	1.89E-07	3.71E-08	4.78E-08	6.60E-08	1.22E-05	9.79E-27	0.00E+00
TEEN	7.21E-08	2.24E-07	6.77E-08	8.42E-08	1.18E-07	1.94E-05	2.17E-26	0.00E+00
CHILD	1.40E-07	1.51E-07	1.65E-07	1.44E-07	1.96E-07	3.85E-05	3.46E-26	0.00E+00
INFANT	2.47E-07	1.34E-07	3.36E-07	3.42E-07	3.41E-07	9.36E-05	9.41E-26	0.00E+00
INHAL								
ADULT	4.35E-08	8.35E-07	2.01E-10	3.40E-08	4.83E-10	6.23E-08	1.75E-05	0.00E+00
TEEN	5.83E-08	7.61E-07	2.84E-10	4.47E-08	6.67E-10	7.95E-08	2.56E-05	0.00E+00
CHILD	6.65E-08	2.89E-07	3.86E-10	3.89E-08	6.27E-10	9.49E-08	2.07E-05	0.00E+00
INFANT	3.46E-08	9.97E-08	3.01E-10	2.39E-08	4.14E-10	8.72E-08	1.32E-05	0.00E+00

TABLE 2. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 2025 (Continued)

SPECIAL LOCATION NO. 3A Nearest Resident
AT 1.20 MILES NW

ANNUAL BETA AIR DOSE = 5.89E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.72E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.15E-04	1.15E-04	1.15E-04	1.15E-04	1.15E-04	1.15E-04	1.15E-04	1.80E-04
GROUND	6.01E-05	6.01E-05	6.01E-05	6.01E-05	6.01E-05	6.01E-05	6.01E-05	7.07E-05
VEGET								
ADULT	9.78E-07	7.77E-06	3.85E-07	5.29E-07	2.03E-07	3.83E-05	1.54E-19	0.00E+00
TEEN	1.52E-06	8.28E-06	6.30E-07	8.08E-07	3.07E-07	5.14E-05	1.74E-19	0.00E+00
CHILD	3.05E-06	5.43E-06	1.53E-06	1.27E-06	4.93E-07	9.86E-05	2.07E-19	0.00E+00
MEAT								
ADULT	2.45E-07	2.07E-06	5.12E-09	1.14E-07	5.36E-09	1.02E-06	0.00E+00	0.00E+00
TEEN	1.94E-07	1.12E-06	4.30E-09	8.82E-08	4.38E-09	7.41E-07	0.00E+00	0.00E+00
CHILD	3.02E-07	5.64E-07	8.06E-09	1.05E-07	5.56E-09	1.12E-06	0.00E+00	0.00E+00
COW MILK								
ADULT	1.04E-07	4.82E-07	7.71E-08	1.15E-07	1.56E-07	2.89E-05	2.31E-25	0.00E+00
TEEN	1.77E-07	5.71E-07	1.40E-07	2.02E-07	2.78E-07	4.58E-05	5.13E-25	0.00E+00
CHILD	3.46E-07	3.83E-07	3.42E-07	3.45E-07	4.62E-07	9.09E-05	8.16E-25	0.00E+00
INFANT	6.06E-07	3.40E-07	7.01E-07	8.18E-07	8.05E-07	2.21E-04	2.22E-24	0.00E+00
GOATMILK								
ADULT	6.82E-08	9.14E-08	1.05E-07	1.12E-07	1.87E-07	3.47E-05	2.77E-26	0.00E+00
TEEN	1.14E-07	1.14E-07	1.92E-07	1.99E-07	3.34E-07	5.50E-05	6.15E-26	0.00E+00
CHILD	2.15E-07	8.30E-08	4.68E-07	3.45E-07	5.55E-07	1.09E-04	9.79E-26	0.00E+00
INFANT	4.01E-07	7.77E-08	9.52E-07	8.42E-07	9.66E-07	2.65E-04	2.67E-25	0.00E+00
INHAL								
ADULT	7.86E-09	9.44E-08	5.73E-09	1.15E-08	1.38E-08	1.78E-06	1.84E-06	0.00E+00
TEEN	1.05E-08	1.06E-07	8.08E-09	1.56E-08	1.90E-08	2.27E-06	2.69E-06	0.00E+00
CHILD	1.19E-08	2.31E-07	1.10E-08	1.48E-08	1.79E-08	2.71E-06	2.19E-06	0.00E+00
INFANT	7.19E-09	1.87E-07	8.57E-09	1.26E-08	1.18E-08	2.48E-06	1.40E-06	0.00E+00

TABLE 2. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 2025 (Continued)

SPECIAL LOCATION NO. 4A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 1.24E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 3.63E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.43E-05	2.43E-05	2.43E-05	2.43E-05	2.43E-05	2.43E-05	2.43E-05	3.80E-05
GROUND	3.77E-06	3.77E-06	3.77E-06	3.77E-06	3.77E-06	3.77E-06	3.77E-06	4.44E-06
VEGET								
ADULT	6.30E-08	4.90E-07	3.25E-08	3.58E-08	1.71E-08	3.23E-06	1.30E-20	0.00E+00
TEEN	9.81E-08	5.22E-07	5.31E-08	5.47E-08	2.58E-08	4.34E-06	1.46E-20	0.00E+00
CHILD	1.96E-07	3.42E-07	1.29E-07	8.63E-08	4.16E-08	8.31E-06	1.75E-20	0.00E+00
MEAT								
ADULT	1.54E-08	1.30E-07	4.32E-10	7.20E-09	4.52E-10	8.63E-08	0.00E+00	0.00E+00
TEEN	1.22E-08	7.01E-08	3.62E-10	5.59E-09	3.69E-10	6.25E-08	0.00E+00	0.00E+00
CHILD	1.90E-08	3.54E-08	6.80E-10	6.67E-09	4.69E-10	9.44E-08	0.00E+00	0.00E+00
COW MILK								
ADULT	7.65E-09	3.09E-08	6.50E-09	9.18E-09	1.31E-08	2.44E-06	1.95E-26	0.00E+00
TEEN	1.30E-08	3.67E-08	1.18E-08	1.62E-08	2.35E-08	3.86E-06	4.32E-26	0.00E+00
CHILD	2.51E-08	2.48E-08	2.88E-08	2.77E-08	3.90E-08	7.67E-06	6.88E-26	0.00E+00
INFANT	4.46E-08	2.20E-08	5.91E-08	6.62E-08	6.79E-08	1.86E-05	1.87E-25	0.00E+00
GOATMILK								
ADULT	5.61E-09	6.54E-09	8.87E-09	9.37E-09	1.58E-08	2.93E-06	2.34E-27	0.00E+00
TEEN	9.40E-09	8.26E-09	1.62E-08	1.66E-08	2.81E-08	4.64E-06	5.19E-27	0.00E+00
CHILD	1.76E-08	6.10E-09	3.95E-08	2.90E-08	4.68E-08	9.20E-06	8.25E-27	0.00E+00
INFANT	3.30E-08	5.76E-09	8.03E-08	7.07E-08	8.14E-08	2.24E-05	2.25E-26	0.00E+00
INHAL								
ADULT	1.24E-09	1.19E-08	1.21E-09	2.10E-09	2.90E-09	3.74E-07	2.21E-07	0.00E+00
TEEN	1.65E-09	1.51E-08	1.70E-09	2.86E-09	4.00E-09	4.77E-07	3.24E-07	0.00E+00
CHILD	1.87E-09	4.59E-08	2.32E-09	2.76E-09	3.76E-09	5.70E-07	2.63E-07	0.00E+00
INFANT	1.19E-09	3.84E-08	1.80E-09	2.42E-09	2.48E-09	5.23E-07	1.70E-07	0.00E+00

TABLE 2. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 2025 (Continued)

SPECIAL LOCATION NO. 5A Nearest Garden
AT 1.90 MILES SE

ANNUAL BETA AIR DOSE = 4.13E-06 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.21E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	8.08E-06	8.08E-06	8.08E-06	8.08E-06	8.08E-06	8.08E-06	8.10E-06	1.27E-05
GROUND	1.50E-05	1.50E-05	1.50E-05	1.50E-05	1.50E-05	1.50E-05	1.50E-05	1.76E-05
VEGET								
ADULT	2.35E-07	1.93E-06	5.29E-08	1.18E-07	2.79E-08	5.25E-06	2.11E-20	0.00E+00
TEEN	3.68E-07	2.05E-06	8.64E-08	1.81E-07	4.21E-08	7.06E-06	2.38E-20	0.00E+00
CHILD	7.38E-07	1.34E-06	2.10E-07	2.82E-07	6.77E-08	1.35E-05	2.84E-20	0.00E+00
MEAT								
ADULT	6.10E-08	5.17E-07	7.03E-10	2.80E-08	7.36E-10	1.41E-07	0.00E+00	0.00E+00
TEEN	4.83E-08	2.78E-07	5.90E-10	2.17E-08	6.01E-10	1.02E-07	0.00E+00	0.00E+00
CHILD	7.51E-08	1.41E-07	1.11E-09	2.58E-08	7.64E-10	1.54E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	2.03E-08	1.17E-07	1.06E-08	1.85E-08	2.14E-08	3.97E-06	3.17E-26	0.00E+00
TEEN	3.47E-08	1.38E-07	1.93E-08	3.23E-08	3.82E-08	6.29E-06	7.04E-26	0.00E+00
CHILD	6.84E-08	9.20E-08	4.69E-08	5.45E-08	6.35E-08	1.25E-05	1.12E-25	0.00E+00
INFANT	1.18E-07	8.12E-08	9.63E-08	1.27E-07	1.10E-07	3.03E-05	3.05E-25	0.00E+00
GOATMILK								
ADULT	1.01E-08	1.86E-08	1.44E-08	1.57E-08	2.57E-08	4.76E-06	3.81E-27	0.00E+00
TEEN	1.69E-08	2.28E-08	2.63E-08	2.78E-08	4.58E-08	7.55E-06	8.44E-27	0.00E+00
CHILD	3.20E-08	1.61E-08	6.43E-08	4.83E-08	7.62E-08	1.50E-05	1.34E-26	0.00E+00
INFANT	5.92E-08	1.48E-08	1.31E-07	1.17E-07	1.33E-07	3.64E-05	3.66E-26	0.00E+00
INHAL								
ADULT	4.58E-09	8.42E-08	3.97E-10	3.94E-09	9.53E-10	1.23E-07	1.75E-06	0.00E+00
TEEN	6.14E-09	7.80E-08	5.59E-10	5.20E-09	1.32E-09	1.57E-07	2.56E-06	0.00E+00
CHILD	7.00E-09	4.21E-08	7.62E-10	4.61E-09	1.24E-09	1.87E-07	2.08E-06	0.00E+00
INFANT	3.71E-09	2.15E-08	5.93E-10	3.06E-09	8.18E-10	1.72E-07	1.33E-06	0.00E+00

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 2025

SPECIAL LOCATION NO. 1A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 1.42E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 4.19E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.80E-05	2.80E-05	2.80E-05	2.80E-05	2.80E-05	2.80E-05	2.80E-05	4.39E-05
GROUND	4.62E-04	4.62E-04	4.62E-04	4.62E-04	4.62E-04	4.62E-04	4.62E-04	5.43E-04
VEGET								
ADULT	7.04E-06	5.92E-05	5.19E-07	3.31E-06	2.87E-07	5.42E-05	2.51E-19	0.00E+00
TEEN	1.10E-05	6.30E-05	8.47E-07	5.08E-06	4.33E-07	7.28E-05	2.83E-19	0.00E+00
CHILD	2.22E-05	4.12E-05	2.05E-06	7.85E-06	6.97E-07	1.40E-04	3.38E-19	0.00E+00
MEAT								
ADULT	1.88E-06	1.59E-05	7.00E-09	8.53E-07	7.59E-09	1.45E-06	0.00E+00	0.00E+00
TEEN	1.49E-06	8.58E-06	5.87E-09	6.62E-07	6.20E-09	1.05E-06	0.00E+00	0.00E+00
CHILD	2.31E-06	4.33E-06	1.10E-08	7.87E-07	7.88E-09	1.59E-06	0.00E+00	0.00E+00
COW MILK								
ADULT	4.81E-07	3.52E-06	1.08E-07	3.14E-07	2.20E-07	4.09E-05	3.76E-25	0.00E+00
TEEN	8.28E-07	4.14E-06	1.96E-07	5.42E-07	3.93E-07	6.48E-05	8.35E-25	0.00E+00
CHILD	1.66E-06	2.74E-06	4.77E-07	8.85E-07	6.54E-07	1.29E-04	1.33E-24	0.00E+00
INFANT	2.78E-06	2.41E-06	9.81E-07	1.97E-06	1.14E-06	3.13E-04	3.62E-24	0.00E+00
GOATMILK								
ADULT	1.36E-07	4.69E-07	1.46E-07	1.76E-07	2.64E-07	4.91E-05	4.52E-26	0.00E+00
TEEN	2.31E-07	5.61E-07	2.67E-07	3.11E-07	4.72E-07	7.78E-05	1.00E-25	0.00E+00
CHILD	4.44E-07	3.81E-07	6.50E-07	5.36E-07	7.84E-07	1.54E-04	1.59E-25	0.00E+00
INFANT	7.97E-07	3.41E-07	1.32E-06	1.29E-06	1.36E-06	3.75E-04	4.34E-25	0.00E+00
INHAL								
ADULT	7.24E-08	1.39E-06	7.29E-10	5.70E-08	1.75E-09	2.29E-07	2.90E-05	0.00E+00
TEEN	9.71E-08	1.26E-06	1.03E-09	7.49E-08	2.42E-09	2.92E-07	4.24E-05	0.00E+00
CHILD	1.11E-07	4.98E-07	1.40E-09	6.53E-08	2.28E-09	3.47E-07	3.44E-05	0.00E+00
INFANT	5.77E-08	1.82E-07	1.09E-09	4.03E-08	1.50E-09	3.19E-07	2.19E-05	0.00E+00

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 2025 (Continued)

SPECIAL LOCATION NO. 2A Site Boundary
AT .65 MILES SE

ANNUAL BETA AIR DOSE = 6.23E-06 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.83E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.22E-05	1.22E-05	1.22E-05	1.22E-05	1.22E-05	1.22E-05	1.23E-05	1.92E-05
GROUND	4.26E-04	4.26E-04	4.26E-04	4.26E-04	4.26E-04	4.26E-04	4.26E-04	5.01E-04
VEGET								
ADULT	6.44E-06	5.45E-05	2.48E-07	2.98E-06	1.37E-07	2.59E-05	1.20E-19	0.00E+00
TEEN	1.01E-05	5.81E-05	4.05E-07	4.57E-06	2.07E-07	3.48E-05	1.35E-19	0.00E+00
CHILD	2.03E-05	3.80E-05	9.83E-07	7.05E-06	3.33E-07	6.67E-05	1.61E-19	0.00E+00
MEAT								
ADULT	1.73E-06	1.47E-05	3.35E-09	7.85E-07	3.63E-09	6.93E-07	0.00E+00	0.00E+00
TEEN	1.37E-06	7.91E-06	2.81E-09	6.09E-07	2.97E-09	5.02E-07	0.00E+00	0.00E+00
CHILD	2.13E-06	3.99E-06	5.26E-09	7.23E-07	3.77E-09	7.58E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	4.11E-07	3.23E-06	5.15E-08	2.32E-07	1.05E-07	1.96E-05	1.80E-25	0.00E+00
TEEN	7.10E-07	3.80E-06	9.38E-08	3.98E-07	1.88E-07	3.10E-05	3.99E-25	0.00E+00
CHILD	1.43E-06	2.51E-06	2.28E-07	6.40E-07	3.13E-07	6.15E-05	6.36E-25	0.00E+00
INFANT	2.37E-06	2.20E-06	4.69E-07	1.38E-06	5.44E-07	1.49E-04	1.73E-24	0.00E+00
GOATMILK								
ADULT	8.70E-08	4.10E-07	6.99E-08	9.42E-08	1.26E-07	2.35E-05	2.16E-26	0.00E+00
TEEN	1.48E-07	4.86E-07	1.27E-07	1.66E-07	2.26E-07	3.72E-05	4.79E-26	0.00E+00
CHILD	2.89E-07	3.26E-07	3.11E-07	2.82E-07	3.75E-07	7.38E-05	7.63E-26	0.00E+00
INFANT	5.06E-07	2.89E-07	6.33E-07	6.69E-07	6.53E-07	1.79E-04	2.08E-25	0.00E+00
INHAL								
ADULT	6.66E-08	1.28E-06	3.14E-10	5.22E-08	7.57E-10	9.86E-08	2.68E-05	0.00E+00
TEEN	8.93E-08	1.17E-06	4.42E-10	6.85E-08	1.05E-09	1.26E-07	3.91E-05	0.00E+00
CHILD	1.02E-07	4.45E-07	6.03E-10	5.96E-08	9.83E-10	1.50E-07	3.17E-05	0.00E+00
INFANT	5.31E-08	1.54E-07	4.69E-10	3.66E-08	6.49E-10	1.38E-07	2.02E-05	0.00E+00

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 2025 (Continued)

SPECIAL LOCATION NO. 3A Nearest Resident
AT 1.20 MILES NW

ANNUAL BETA AIR DOSE = 1.07E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 3.14E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.10E-04	2.10E-04	2.10E-04	2.10E-04	2.10E-04	2.10E-04	2.10E-04	3.29E-04
GROUND	7.12E-05	7.12E-05	7.12E-05	7.12E-05	7.12E-05	7.12E-05	7.12E-05	8.37E-05
VEGET								
ADULT	1.14E-06	9.18E-06	3.50E-07	5.98E-07	1.94E-07	3.65E-05	1.69E-19	0.00E+00
TEEN	1.78E-06	9.78E-06	5.71E-07	9.15E-07	2.92E-07	4.91E-05	1.91E-19	0.00E+00
CHILD	3.57E-06	6.41E-06	1.38E-06	1.43E-06	4.70E-07	9.41E-05	2.28E-19	0.00E+00
MEAT								
ADULT	2.90E-07	2.46E-06	4.72E-09	1.34E-07	5.12E-09	9.77E-07	0.00E+00	0.00E+00
TEEN	2.30E-07	1.32E-06	3.95E-09	1.04E-07	4.18E-09	7.08E-07	0.00E+00	0.00E+00
CHILD	3.57E-07	6.68E-07	7.42E-09	1.24E-07	5.31E-09	1.07E-06	0.00E+00	0.00E+00
COW MILK								
ADULT	1.12E-07	5.64E-07	7.26E-08	1.15E-07	1.48E-07	2.76E-05	2.54E-25	0.00E+00
TEEN	1.90E-07	6.67E-07	1.32E-07	2.02E-07	2.65E-07	4.37E-05	5.63E-25	0.00E+00
CHILD	3.73E-07	4.46E-07	3.22E-07	3.43E-07	4.40E-07	8.67E-05	8.96E-25	0.00E+00
INFANT	6.49E-07	3.95E-07	6.61E-07	8.09E-07	7.66E-07	2.11E-04	2.44E-24	0.00E+00
GOATMILK								
ADULT	6.64E-08	9.93E-08	9.86E-08	1.07E-07	1.78E-07	3.31E-05	3.04E-26	0.00E+00
TEEN	1.11E-07	1.23E-07	1.80E-07	1.90E-07	3.18E-07	5.24E-05	6.75E-26	0.00E+00
CHILD	2.10E-07	8.84E-08	4.38E-07	3.31E-07	5.28E-07	1.04E-04	1.07E-25	0.00E+00
INFANT	3.90E-07	8.20E-08	8.92E-07	8.06E-07	9.20E-07	2.53E-04	2.93E-25	0.00E+00
INHAL								
ADULT	1.07E-08	1.51E-07	5.53E-09	1.35E-08	1.33E-08	1.73E-06	3.03E-06	0.00E+00
TEEN	1.43E-08	1.61E-07	7.79E-09	1.82E-08	1.84E-08	2.21E-06	4.44E-06	0.00E+00
CHILD	1.63E-08	2.78E-07	1.06E-08	1.71E-08	1.73E-08	2.63E-06	3.60E-06	0.00E+00
INFANT	9.43E-09	2.18E-07	8.27E-09	1.38E-08	1.14E-08	2.42E-06	2.31E-06	0.00E+00

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 2025 (Continued)

SPECIAL LOCATION NO. 4A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 3.56E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.05E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.00E-05	7.00E-05	7.00E-05	7.00E-05	7.00E-05	7.00E-05	7.01E-05	1.10E-04
GROUND	5.69E-06	5.69E-06	5.69E-06	5.69E-06	5.69E-06	5.69E-06	5.69E-06	6.69E-06
VEGET								
ADULT	9.42E-08	7.37E-07	4.29E-08	5.27E-08	2.37E-08	4.47E-06	2.07E-20	0.00E+00
TEEN	1.47E-07	7.86E-07	7.00E-08	8.04E-08	3.58E-08	6.02E-06	2.34E-20	0.00E+00
CHILD	2.93E-07	5.15E-07	1.70E-07	1.27E-07	5.76E-08	1.15E-05	2.79E-20	0.00E+00
MEAT								
ADULT	2.33E-08	1.96E-07	5.78E-10	1.08E-08	6.27E-10	1.20E-07	0.00E+00	0.00E+00
TEEN	1.84E-08	1.06E-07	4.85E-10	8.41E-09	5.12E-10	8.67E-08	0.00E+00	0.00E+00
CHILD	2.86E-08	5.34E-08	9.09E-10	1.00E-08	6.51E-10	1.31E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	1.10E-08	4.62E-08	8.90E-09	1.29E-08	1.82E-08	3.38E-06	3.11E-26	0.00E+00
TEEN	1.87E-08	5.49E-08	1.62E-08	2.27E-08	3.25E-08	5.35E-06	6.90E-26	0.00E+00
CHILD	3.63E-08	3.70E-08	3.94E-08	3.89E-08	5.40E-08	1.06E-05	1.10E-25	0.00E+00
INFANT	6.41E-08	3.29E-08	8.10E-08	9.27E-08	9.39E-08	2.58E-05	2.99E-25	0.00E+00
GOATMILK								
ADULT	7.82E-09	9.42E-09	1.21E-08	1.30E-08	2.18E-08	4.06E-06	3.73E-27	0.00E+00
TEEN	1.31E-08	1.19E-08	2.20E-08	2.31E-08	3.90E-08	6.43E-06	8.28E-27	0.00E+00
CHILD	2.46E-08	8.70E-09	5.37E-08	4.02E-08	6.48E-08	1.27E-05	1.32E-26	0.00E+00
INFANT	4.60E-08	8.19E-09	1.09E-07	9.80E-08	1.13E-07	3.10E-05	3.59E-26	0.00E+00
INHAL								
ADULT	2.07E-09	2.23E-08	1.76E-09	3.26E-09	4.25E-09	5.53E-07	4.24E-07	0.00E+00
TEEN	2.77E-09	2.74E-08	2.48E-09	4.45E-09	5.87E-09	7.06E-07	6.22E-07	0.00E+00
CHILD	3.13E-09	7.69E-08	3.37E-09	4.26E-09	5.51E-09	8.41E-07	5.04E-07	0.00E+00
INFANT	1.94E-09	6.38E-08	2.63E-09	3.69E-09	3.64E-09	7.72E-07	3.25E-07	0.00E+00

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 2025 (Continued)

SPECIAL LOCATION NO. 5A Nearest Garden
AT 1.90 MILES SE

ANNUAL BETA AIR DOSE = 1.09E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 3.14E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.10E-05	2.10E-05	2.10E-05	2.10E-05	2.10E-05	2.10E-05	2.11E-05	3.30E-05
GROUND	3.27E-05	3.27E-05	3.27E-05	3.27E-05	3.27E-05	3.27E-05	3.27E-05	3.84E-05
VEGET								
ADULT	5.13E-07	4.20E-06	1.13E-07	2.59E-07	6.21E-08	1.17E-05	2.71E-20	0.00E+00
TEEN	8.02E-07	4.48E-06	1.84E-07	3.96E-07	9.37E-08	1.58E-05	3.06E-20	0.00E+00
CHILD	1.61E-06	2.93E-06	4.46E-07	6.17E-07	1.51E-07	3.02E-05	3.65E-20	0.00E+00
MEAT								
ADULT	1.33E-07	1.13E-06	1.52E-09	6.10E-08	1.64E-09	3.14E-07	0.00E+00	0.00E+00
TEEN	1.05E-07	6.07E-07	1.27E-09	4.73E-08	1.34E-09	2.27E-07	0.00E+00	0.00E+00
CHILD	1.64E-07	3.06E-07	2.39E-09	5.63E-08	1.70E-09	3.43E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	4.45E-08	2.55E-07	2.33E-08	4.08E-08	4.76E-08	8.84E-06	4.07E-26	0.00E+00
TEEN	7.61E-08	3.01E-07	4.24E-08	7.14E-08	8.48E-08	1.40E-05	9.03E-26	0.00E+00
CHILD	1.50E-07	2.01E-07	1.03E-07	1.20E-07	1.41E-07	2.78E-05	1.44E-25	0.00E+00
INFANT	2.58E-07	1.77E-07	2.12E-07	2.81E-07	2.45E-07	6.75E-05	3.91E-25	0.00E+00
GOATMILK								
ADULT	2.23E-08	4.07E-08	3.16E-08	3.48E-08	5.71E-08	1.06E-05	4.89E-27	0.00E+00
TEEN	3.75E-08	4.98E-08	5.77E-08	6.17E-08	1.02E-07	1.68E-05	1.08E-26	0.00E+00
CHILD	7.09E-08	3.52E-08	1.41E-07	1.07E-07	1.69E-07	3.33E-05	1.73E-26	0.00E+00
INFANT	1.31E-07	3.23E-08	2.86E-07	2.61E-07	2.95E-07	8.10E-05	4.70E-26	0.00E+00
INHAL								
ADULT	6.61E-09	1.18E-07	8.49E-10	5.93E-09	2.03E-09	2.67E-07	2.47E-06	0.00E+00
TEEN	8.85E-09	1.10E-07	1.20E-09	7.87E-09	2.81E-09	3.40E-07	3.60E-06	0.00E+00
CHILD	1.01E-08	5.77E-08	1.63E-09	7.02E-09	2.64E-09	4.05E-07	2.92E-06	0.00E+00
INFANT	5.40E-09	2.89E-08	1.27E-09	4.81E-09	1.74E-09	3.72E-07	1.86E-06	0.00E+00

TABLE 4. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 2025

SPECIAL LOCATION NO. 1A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 3.08E-06 MILLRADS
ANNUAL GAMMA AIR DOSE = 7.71E-06 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.16E-06	5.16E-06	5.16E-06	5.16E-06	5.16E-06	5.16E-06	5.18E-06	8.46E-06
GROUND	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.18E-03	1.39E-03
VEGET								
ADULT	1.78E-05	1.51E-04	1.87E-07	8.11E-06	1.11E-07	2.09E-05	1.46E-19	0.00E+00
TEEN	2.79E-05	1.61E-04	3.05E-07	1.25E-05	1.67E-07	2.81E-05	1.65E-19	0.00E+00
CHILD	5.62E-05	1.05E-04	7.39E-07	1.92E-05	2.69E-07	5.39E-05	1.97E-19	0.00E+00
MEAT								
ADULT	4.79E-06	4.08E-05	2.57E-09	2.18E-06	2.92E-09	5.59E-07	0.00E+00	0.00E+00
TEEN	3.80E-06	2.20E-05	2.15E-09	1.69E-06	2.39E-09	4.05E-07	0.00E+00	0.00E+00
CHILD	5.91E-06	1.11E-05	4.04E-09	2.00E-06	3.03E-09	6.11E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	1.07E-06	8.92E-06	4.13E-08	5.24E-07	8.60E-08	1.59E-05	2.20E-25	0.00E+00
TEEN	1.86E-06	1.05E-05	7.51E-08	8.92E-07	1.53E-07	2.51E-05	4.88E-25	0.00E+00
CHILD	3.77E-06	6.93E-06	1.83E-07	1.40E-06	2.55E-07	4.99E-05	7.76E-25	0.00E+00
INFANT	6.18E-06	6.08E-06	3.76E-07	2.93E-06	4.44E-07	1.21E-04	2.11E-24	0.00E+00
GOATMILK								
ADULT	1.59E-07	1.09E-06	5.55E-08	1.17E-07	1.03E-07	1.90E-05	2.64E-26	0.00E+00
TEEN	2.74E-07	1.28E-06	1.01E-07	2.03E-07	1.84E-07	3.02E-05	5.85E-26	0.00E+00
CHILD	5.47E-07	8.52E-07	2.47E-07	3.36E-07	3.06E-07	5.99E-05	9.31E-26	0.00E+00
INFANT	9.22E-07	7.50E-07	5.03E-07	7.62E-07	5.33E-07	1.46E-04	2.54E-25	0.00E+00
INHAL								
ADULT	1.89E-07	3.64E-06	4.98E-10	1.48E-07	1.08E-09	1.07E-07	7.62E-05	0.00E+00
TEEN	2.54E-07	3.31E-06	7.02E-10	1.94E-07	1.50E-09	1.38E-07	1.11E-04	0.00E+00
CHILD	2.90E-07	1.25E-06	9.55E-10	1.69E-07	1.41E-09	1.65E-07	9.02E-05	0.00E+00
INFANT	1.51E-07	4.25E-07	7.52E-10	1.03E-07	9.29E-10	1.52E-07	5.75E-05	0.00E+00

TABLE 4. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 2025 (Continued)

SPECIAL LOCATION NO. 2A Site Boundary
AT .65 MILES SE

ANNUAL BETA AIR DOSE = 6.16E-07 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.54E-06 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.03E-06	1.03E-06	1.03E-06	1.03E-06	1.03E-06	1.03E-06	1.04E-06	1.69E-06
GROUND	4.43E-04	4.43E-04	4.43E-04	4.43E-04	4.43E-04	4.43E-04	4.43E-04	5.22E-04
VEGET								
ADULT	6.67E-06	5.67E-05	3.90E-08	3.03E-06	2.32E-08	4.37E-06	3.05E-20	0.00E+00
TEEN	1.05E-05	6.04E-05	6.37E-08	4.66E-06	3.49E-08	5.87E-06	3.45E-20	0.00E+00
CHILD	2.10E-05	3.95E-05	1.54E-07	7.16E-06	5.61E-08	1.12E-05	4.12E-20	0.00E+00
MEAT								
ADULT	1.80E-06	1.53E-05	5.37E-10	8.15E-07	6.10E-10	1.17E-07	0.00E+00	0.00E+00
TEEN	1.42E-06	8.24E-06	4.50E-10	6.33E-07	4.98E-10	8.45E-08	0.00E+00	0.00E+00
CHILD	2.21E-06	4.16E-06	8.43E-10	7.51E-07	6.33E-10	1.28E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	3.98E-07	3.34E-06	8.62E-09	1.88E-07	1.79E-08	3.31E-06	4.59E-26	0.00E+00
TEEN	6.88E-07	3.93E-06	1.57E-08	3.20E-07	3.20E-08	5.25E-06	1.02E-25	0.00E+00
CHILD	1.40E-06	2.60E-06	3.82E-08	5.00E-07	5.33E-08	1.04E-05	1.62E-25	0.00E+00
INFANT	2.29E-06	2.28E-06	7.85E-08	1.03E-06	9.27E-08	2.53E-05	4.41E-25	0.00E+00
GOATMILK								
ADULT	5.41E-08	4.05E-07	1.16E-08	3.39E-08	2.15E-08	3.97E-06	5.51E-27	0.00E+00
TEEN	9.33E-08	4.77E-07	2.11E-08	5.84E-08	3.84E-08	6.30E-06	1.22E-26	0.00E+00
CHILD	1.88E-07	3.16E-07	5.15E-08	9.50E-08	6.39E-08	1.25E-05	1.94E-26	0.00E+00
INFANT	3.12E-07	2.78E-07	1.05E-07	2.10E-07	1.11E-07	3.04E-05	5.29E-26	0.00E+00
INHAL								
ADULT	1.98E-07	3.80E-06	1.02E-10	1.54E-07	2.21E-10	2.19E-08	7.96E-05	0.00E+00
TEEN	2.65E-07	3.46E-06	1.44E-10	2.02E-07	3.06E-10	2.80E-08	1.16E-04	0.00E+00
CHILD	3.02E-07	1.29E-06	1.96E-10	1.75E-07	2.88E-10	3.37E-08	9.43E-05	0.00E+00
INFANT	1.57E-07	4.30E-07	1.54E-10	1.07E-07	1.90E-10	3.10E-08	6.01E-05	0.00E+00

TABLE 4. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 2025 (Continued)

SPECIAL LOCATION NO. 3A Nearest Resident
AT 1.20 MILES NW

ANNUAL BETA AIR DOSE = 8.90E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.23E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.49E-04	1.49E-04	1.49E-04	1.49E-04	1.49E-04	1.49E-04	1.50E-04	2.44E-04
GROUND	1.24E-04	1.24E-04	1.24E-04	1.24E-04	1.24E-04	1.24E-04	1.24E-04	1.46E-04
VEGET								
ADULT	1.95E-06	1.59E-05	3.82E-07	9.77E-07	2.27E-07	4.28E-05	2.99E-19	0.00E+00
TEEN	3.04E-06	1.70E-05	6.23E-07	1.50E-06	3.42E-07	5.75E-05	3.38E-19	0.00E+00
CHILD	6.10E-06	1.11E-05	1.51E-06	2.33E-06	5.50E-07	1.10E-04	4.03E-19	0.00E+00
MEAT								
ADULT	5.05E-07	4.28E-06	5.25E-09	2.31E-07	5.98E-09	1.14E-06	0.00E+00	0.00E+00
TEEN	4.00E-07	2.30E-06	4.40E-09	1.80E-07	4.88E-09	8.27E-07	0.00E+00	0.00E+00
CHILD	6.22E-07	1.16E-06	8.25E-09	2.14E-07	6.20E-09	1.25E-06	0.00E+00	0.00E+00
COW MILK								
ADULT	1.67E-07	9.67E-07	8.44E-08	1.52E-07	1.76E-07	3.24E-05	4.49E-25	0.00E+00
TEEN	2.86E-07	1.14E-06	1.54E-07	2.66E-07	3.14E-07	5.14E-05	9.97E-25	0.00E+00
CHILD	5.64E-07	7.62E-07	3.74E-07	4.48E-07	5.21E-07	1.02E-04	1.59E-24	0.00E+00
INFANT	9.69E-07	6.73E-07	7.69E-07	1.04E-06	9.08E-07	2.48E-04	4.32E-24	0.00E+00
GOATMILK								
ADULT	8.24E-08	1.54E-07	1.13E-07	1.29E-07	2.11E-07	3.89E-05	5.39E-26	0.00E+00
TEEN	1.38E-07	1.89E-07	2.07E-07	2.28E-07	3.76E-07	6.17E-05	1.20E-25	0.00E+00
CHILD	2.62E-07	1.33E-07	5.04E-07	3.97E-07	6.26E-07	1.22E-04	1.90E-25	0.00E+00
INFANT	4.84E-07	1.23E-07	1.03E-06	9.64E-07	1.09E-06	2.98E-04	5.18E-25	0.00E+00
INHAL								
ADULT	2.41E-08	2.82E-07	1.46E-08	3.37E-08	3.17E-08	3.14E-06	5.60E-06	0.00E+00
TEEN	3.24E-08	3.13E-07	2.06E-08	4.58E-08	4.39E-08	4.02E-06	8.19E-06	0.00E+00
CHILD	3.76E-08	6.65E-07	2.81E-08	4.35E-08	4.12E-08	4.84E-06	6.64E-06	0.00E+00
INFANT	2.28E-08	5.45E-07	2.21E-08	3.66E-08	2.72E-08	4.44E-06	4.26E-06	0.00E+00

TABLE 4. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 2025 (Continued)

SPECIAL LOCATION NO. 4A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 3.19E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 8.00E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.35E-05	5.35E-05	5.35E-05	5.35E-05	5.35E-05	5.35E-05	5.38E-05	8.77E-05
GROUND	1.35E-05	1.35E-05	1.35E-05	1.35E-05	1.35E-05	1.35E-05	1.35E-05	1.59E-05
VEGET								
ADULT	2.17E-07	1.74E-06	6.43E-08	1.14E-07	3.82E-08	7.19E-06	5.03E-20	0.00E+00
TEEN	3.38E-07	1.86E-06	1.05E-07	1.75E-07	5.75E-08	9.66E-06	5.67E-20	0.00E+00
CHILD	6.78E-07	1.22E-06	2.54E-07	2.73E-07	9.24E-08	1.85E-05	6.77E-20	0.00E+00
MEAT								
ADULT	5.51E-08	4.66E-07	8.83E-10	2.54E-08	1.00E-09	1.92E-07	0.00E+00	0.00E+00
TEEN	4.36E-08	2.51E-07	7.40E-10	1.97E-08	8.20E-10	1.39E-07	0.00E+00	0.00E+00
CHILD	6.78E-08	1.27E-07	1.39E-09	2.35E-08	1.04E-09	2.10E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	2.16E-08	1.07E-07	1.42E-08	2.26E-08	2.95E-08	5.45E-06	7.55E-26	0.00E+00
TEEN	3.68E-08	1.27E-07	2.58E-08	3.98E-08	5.27E-08	8.64E-06	1.68E-25	0.00E+00
CHILD	7.20E-08	8.51E-08	6.28E-08	6.76E-08	8.76E-08	1.72E-05	2.67E-25	0.00E+00
INFANT	1.25E-07	7.54E-08	1.29E-07	1.60E-07	1.53E-07	4.17E-05	7.26E-25	0.00E+00
GOATMILK								
ADULT	1.31E-08	1.92E-08	1.91E-08	2.13E-08	3.54E-08	6.54E-06	9.06E-27	0.00E+00
TEEN	2.19E-08	2.39E-08	3.47E-08	3.78E-08	6.32E-08	1.04E-05	2.01E-26	0.00E+00
CHILD	4.13E-08	1.73E-08	8.47E-08	6.57E-08	1.05E-07	2.06E-05	3.20E-26	0.00E+00
INFANT	7.69E-08	1.61E-08	1.73E-07	1.60E-07	1.83E-07	5.00E-05	8.71E-26	0.00E+00
INHAL								
ADULT	6.27E-09	5.45E-08	5.30E-09	1.03E-08	1.15E-08	1.13E-06	1.03E-06	0.00E+00
TEEN	8.44E-09	7.04E-08	7.47E-09	1.41E-08	1.59E-08	1.45E-06	1.51E-06	0.00E+00
CHILD	9.84E-09	2.26E-07	1.02E-08	1.36E-08	1.49E-08	1.75E-06	1.23E-06	0.00E+00
INFANT	6.31E-09	1.93E-07	8.00E-09	1.19E-08	9.85E-09	1.61E-06	7.93E-07	0.00E+00

TABLE 4. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 2025 (Continued)

SPECIAL LOCATION NO. 5A Nearest Garden
AT 1.90 MILES SE

ANNUAL BETA AIR DOSE = 7.57E-07 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.77E-06 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.18E-06	1.18E-06	1.18E-06	1.18E-06	1.18E-06	1.18E-06	1.19E-06	1.90E-06
GROUND	3.36E-05	3.36E-05	3.36E-05	3.36E-05	3.36E-05	3.36E-05	3.36E-05	3.95E-05
VEGET								
ADULT	5.08E-07	4.30E-06	1.78E-08	2.35E-07	1.05E-08	1.98E-06	2.61E-21	0.00E+00
TEEN	7.97E-07	4.58E-06	2.91E-08	3.61E-07	1.58E-08	2.66E-06	2.95E-21	0.00E+00
CHILD	1.60E-06	3.00E-06	7.04E-08	5.56E-07	2.54E-08	5.09E-06	3.52E-21	0.00E+00
MEAT								
ADULT	1.36E-07	1.16E-06	2.44E-10	6.19E-08	2.76E-10	5.28E-08	0.00E+00	0.00E+00
TEEN	1.08E-07	6.24E-07	2.05E-10	4.81E-08	2.26E-10	3.83E-08	0.00E+00	0.00E+00
CHILD	1.68E-07	3.15E-07	3.84E-10	5.71E-08	2.87E-10	5.78E-08	0.00E+00	0.00E+00
COW MILK								
ADULT	3.24E-08	2.55E-07	3.89E-09	1.82E-08	8.08E-09	1.50E-06	3.93E-27	0.00E+00
TEEN	5.59E-08	2.99E-07	7.08E-09	3.12E-08	1.44E-08	2.37E-06	8.71E-27	0.00E+00
CHILD	1.13E-07	1.98E-07	1.72E-08	5.01E-08	2.40E-08	4.70E-06	1.39E-26	0.00E+00
INFANT	1.87E-07	1.74E-07	3.55E-08	1.08E-07	4.17E-08	1.14E-05	3.77E-26	0.00E+00
GOATMILK								
ADULT	6.76E-09	3.23E-08	5.24E-09	7.27E-09	9.70E-09	1.79E-06	4.71E-28	0.00E+00
TEEN	1.15E-08	3.83E-08	9.55E-09	1.28E-08	1.73E-08	2.84E-06	1.05E-27	0.00E+00
CHILD	2.25E-08	2.57E-08	2.33E-08	2.18E-08	2.88E-08	5.65E-06	1.66E-27	0.00E+00
INFANT	3.93E-08	2.28E-08	4.75E-08	5.15E-08	5.01E-08	1.37E-05	4.53E-27	0.00E+00
INHAL								
ADULT	1.99E-08	3.80E-07	2.92E-10	1.58E-08	7.17E-10	9.08E-08	7.96E-06	0.00E+00
TEEN	2.67E-08	3.46E-07	4.12E-10	2.07E-08	9.92E-10	1.16E-07	1.16E-05	0.00E+00
CHILD	3.05E-08	1.32E-07	5.61E-10	1.81E-08	9.32E-10	1.39E-07	9.43E-06	0.00E+00
INFANT	1.59E-08	4.55E-08	4.38E-10	1.12E-08	6.16E-10	1.28E-07	6.02E-06	0.00E+00

TABLE 5. DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 2025

SPECIAL LOCATION NO. 1A Site Boundary
AT .69 MILES NNW

ANNUAL BETA AIR DOSE = 3.29E-06 MILLRADS
ANNUAL GAMMA AIR DOSE = 7.66E-06 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.14E-06	5.14E-06	5.14E-06	5.14E-06	5.14E-06	5.14E-06	5.17E-06	8.67E-06
GROUND	4.76E-04	4.76E-04	4.76E-04	4.76E-04	4.76E-04	4.76E-04	4.76E-04	5.60E-04
VEGET								
ADULT	7.24E-06	6.13E-05	2.11E-06	3.32E-06	8.38E-08	1.39E-05	4.60E-20	0.00E+00
TEEN	1.14E-05	6.53E-05	3.51E-06	5.09E-06	1.26E-07	1.87E-05	5.19E-20	0.00E+00
CHILD	2.29E-05	4.28E-05	8.57E-06	7.83E-06	2.00E-07	3.59E-05	6.20E-20	0.00E+00
MEAT								
ADULT	1.93E-06	1.64E-05	2.10E-08	8.76E-07	2.11E-09	3.73E-07	0.00E+00	0.00E+00
TEEN	1.53E-06	8.84E-06	1.77E-08	6.80E-07	1.71E-09	2.70E-07	0.00E+00	0.00E+00
CHILD	2.38E-06	4.47E-06	3.35E-08	8.08E-07	2.15E-09	4.07E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	4.42E-07	3.61E-06	1.20E-07	2.25E-07	5.73E-08	1.06E-05	6.91E-26	0.00E+00
TEEN	7.65E-07	4.25E-06	2.21E-07	3.83E-07	1.02E-07	1.67E-05	1.53E-25	0.00E+00
CHILD	1.55E-06	2.81E-06	5.45E-07	6.07E-07	1.70E-07	3.32E-05	2.44E-25	0.00E+00
INFANT	2.55E-06	2.47E-06	1.06E-06	1.28E-06	2.95E-07	8.07E-05	6.64E-25	0.00E+00
GOATMILK								
ADULT	7.87E-08	4.75E-07	2.32E-07	6.29E-08	6.86E-08	1.27E-05	8.29E-27	0.00E+00
TEEN	1.35E-07	5.67E-07	4.27E-07	1.10E-07	1.22E-07	2.01E-05	1.84E-26	0.00E+00
CHILD	2.73E-07	3.83E-07	1.05E-06	1.84E-07	2.03E-07	3.99E-05	2.93E-26	0.00E+00
INFANT	4.72E-07	3.43E-07	2.03E-06	4.26E-07	3.54E-07	9.69E-05	7.97E-26	0.00E+00
INHAL								
ADULT	1.15E-07	2.21E-06	1.53E-08	9.09E-08	1.25E-09	9.84E-08	4.61E-05	0.00E+00
TEEN	1.54E-07	2.02E-06	2.18E-08	1.19E-07	1.69E-09	1.26E-07	6.74E-05	0.00E+00
CHILD	1.76E-07	7.59E-07	3.01E-08	1.04E-07	1.51E-09	1.51E-07	5.46E-05	0.00E+00
INFANT	9.17E-08	2.57E-07	2.00E-08	6.35E-08	9.31E-10	1.39E-07	3.49E-05	0.00E+00

TABLE 5. DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 2025 (Continued)

SPECIAL LOCATION NO. 2A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 3.55E-06 MILLRADS
ANNUAL GAMMA AIR DOSE = 8.25E-06 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.53E-06	5.53E-06	5.53E-06	5.53E-06	5.53E-06	5.53E-06	5.56E-06	9.33E-06
GROUND	8.69E-04	8.69E-04	8.69E-04	8.69E-04	8.69E-04	8.69E-04	8.69E-04	1.02E-03
VEGET								
ADULT	1.32E-05	1.12E-04	3.82E-06	6.04E-06	1.38E-07	2.27E-05	7.47E-20	0.00E+00
TEEN	2.07E-05	1.19E-04	6.34E-06	9.28E-06	2.08E-07	3.04E-05	8.43E-20	0.00E+00
CHILD	4.17E-05	7.81E-05	1.55E-05	1.43E-05	3.29E-07	5.83E-05	1.01E-19	0.00E+00
MEAT								
ADULT	3.52E-06	3.00E-05	3.79E-08	1.60E-06	3.45E-09	6.05E-07	0.00E+00	0.00E+00
TEEN	2.79E-06	1.61E-05	3.20E-08	1.24E-06	2.81E-09	4.38E-07	0.00E+00	0.00E+00
CHILD	4.34E-06	8.15E-06	6.05E-08	1.47E-06	3.52E-09	6.62E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	8.04E-07	6.59E-06	2.14E-07	4.03E-07	9.31E-08	1.72E-05	1.12E-25	0.00E+00
TEEN	1.39E-06	7.75E-06	3.93E-07	6.88E-07	1.66E-07	2.72E-05	2.49E-25	0.00E+00
CHILD	2.82E-06	5.13E-06	9.69E-07	1.09E-06	2.76E-07	5.40E-05	3.96E-25	0.00E+00
INFANT	4.64E-06	4.50E-06	1.87E-06	2.29E-06	4.80E-07	1.31E-04	1.08E-24	0.00E+00
GOATMILK								
ADULT	1.39E-07	8.64E-07	4.15E-07	1.07E-07	1.11E-07	2.06E-05	1.35E-26	0.00E+00
TEEN	2.39E-07	1.03E-06	7.63E-07	1.86E-07	1.99E-07	3.26E-05	2.99E-26	0.00E+00
CHILD	4.85E-07	6.96E-07	1.89E-06	3.11E-07	3.31E-07	6.48E-05	4.76E-26	0.00E+00
INFANT	8.34E-07	6.22E-07	3.62E-06	7.17E-07	5.75E-07	1.57E-04	1.29E-25	0.00E+00
INHAL								
ADULT	1.68E-07	3.25E-06	2.23E-08	1.33E-07	1.50E-09	1.06E-07	6.76E-05	0.00E+00
TEEN	2.26E-07	2.96E-06	3.18E-08	1.75E-07	2.02E-09	1.36E-07	9.88E-05	0.00E+00
CHILD	2.58E-07	1.11E-06	4.39E-08	1.52E-07	1.78E-09	1.63E-07	8.01E-05	0.00E+00
INFANT	1.34E-07	3.74E-07	2.92E-08	9.29E-08	1.08E-09	1.50E-07	5.11E-05	0.00E+00

TABLE 5. DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 2025 (Continued)

SPECIAL LOCATION NO. 3A Nearest Resident
AT 1.20 MILES NW

ANNUAL BETA AIR DOSE = 4.43E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.03E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	6.92E-05	6.92E-05	6.92E-05	6.92E-05	6.92E-05	6.92E-05	6.95E-05	1.17E-04
GROUND	1.06E-04	1.06E-04	1.06E-04	1.06E-04	1.06E-04	1.06E-04	1.06E-04	1.25E-04
VEGET								
ADULT	1.66E-06	1.37E-05	7.66E-07	8.08E-07	1.36E-07	2.53E-05	8.34E-20	0.00E+00
TEEN	2.60E-06	1.46E-05	1.27E-06	1.24E-06	2.05E-07	3.40E-05	9.41E-20	0.00E+00
CHILD	5.23E-06	9.60E-06	3.09E-06	1.92E-06	3.29E-07	6.51E-05	1.12E-19	0.00E+00
MEAT								
ADULT	4.32E-07	3.67E-06	8.35E-09	1.97E-07	3.57E-09	6.75E-07	0.00E+00	0.00E+00
TEEN	3.42E-07	1.97E-06	7.03E-09	1.53E-07	2.91E-09	4.89E-07	0.00E+00	0.00E+00
CHILD	5.32E-07	9.96E-07	1.33E-08	1.82E-07	3.69E-09	7.38E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	1.29E-07	8.24E-07	7.50E-08	1.03E-07	1.04E-07	1.91E-05	1.25E-25	0.00E+00
TEEN	2.20E-07	9.72E-07	1.37E-07	1.79E-07	1.85E-07	3.03E-05	2.78E-25	0.00E+00
CHILD	4.39E-07	6.47E-07	3.35E-07	2.99E-07	3.07E-07	6.02E-05	4.42E-25	0.00E+00
INFANT	7.46E-07	5.70E-07	6.72E-07	6.87E-07	5.35E-07	1.46E-04	1.20E-24	0.00E+00
GOATMILK								
ADULT	5.36E-08	1.29E-07	1.20E-07	7.75E-08	1.24E-07	2.30E-05	1.50E-26	0.00E+00
TEEN	9.05E-08	1.58E-07	2.20E-07	1.37E-07	2.22E-07	3.64E-05	3.33E-26	0.00E+00
CHILD	1.74E-07	1.11E-07	5.39E-07	2.38E-07	3.69E-07	7.22E-05	5.30E-26	0.00E+00
INFANT	3.19E-07	1.02E-07	1.07E-06	5.77E-07	6.41E-07	1.76E-04	1.44E-25	0.00E+00
INHAL								
ADULT	2.25E-08	3.78E-07	7.69E-09	2.25E-08	1.15E-08	1.33E-06	7.78E-06	0.00E+00
TEEN	3.01E-08	3.57E-07	1.09E-08	3.00E-08	1.59E-08	1.70E-06	1.14E-05	0.00E+00
CHILD	3.45E-08	2.45E-07	1.49E-08	2.73E-08	1.50E-08	2.04E-06	9.22E-06	0.00E+00
INFANT	1.89E-08	1.47E-07	1.10E-08	1.99E-08	9.87E-09	1.87E-06	5.89E-06	0.00E+00

TABLE 5. DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 2025 (Continued)

SPECIAL LOCATION NO. 4A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 1.77E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 4.13E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.77E-05	2.77E-05	2.77E-05	2.77E-05	2.77E-05	2.77E-05	2.78E-05	4.67E-05
GROUND	9.44E-06	9.44E-06	9.44E-06	9.44E-06	9.44E-06	9.44E-06	9.44E-06	1.11E-05
VEGET								
ADULT	1.50E-07	1.22E-06	8.11E-08	7.49E-08	1.73E-08	3.22E-06	1.06E-20	0.00E+00
TEEN	2.34E-07	1.30E-06	1.34E-07	1.15E-07	2.61E-08	4.33E-06	1.20E-20	0.00E+00
CHILD	4.71E-07	8.55E-07	3.26E-07	1.78E-07	4.18E-08	8.30E-06	1.43E-20	0.00E+00
MEAT								
ADULT	3.84E-08	3.26E-07	9.04E-10	1.76E-08	4.54E-10	8.62E-08	0.00E+00	0.00E+00
TEEN	3.04E-08	1.75E-07	7.60E-10	1.37E-08	3.71E-10	6.24E-08	0.00E+00	0.00E+00
CHILD	4.73E-08	8.86E-08	1.43E-09	1.63E-08	4.70E-10	9.42E-08	0.00E+00	0.00E+00
COW MILK								
ADULT	1.27E-08	7.40E-08	8.79E-09	1.15E-08	1.32E-08	2.44E-06	1.60E-26	0.00E+00
TEEN	2.18E-08	8.74E-08	1.61E-08	2.01E-08	2.36E-08	3.87E-06	3.54E-26	0.00E+00
CHILD	4.31E-08	5.83E-08	3.93E-08	3.38E-08	3.92E-08	7.68E-06	5.64E-26	0.00E+00
INFANT	7.40E-08	5.16E-08	7.90E-08	7.87E-08	6.82E-08	1.87E-05	1.54E-25	0.00E+00
GOATMILK								
ADULT	6.36E-09	1.25E-08	1.37E-08	9.69E-09	1.59E-08	2.93E-06	1.92E-27	0.00E+00
TEEN	1.07E-08	1.54E-08	2.50E-08	1.72E-08	2.83E-08	4.64E-06	4.25E-27	0.00E+00
CHILD	2.04E-08	1.10E-08	6.13E-08	2.98E-08	4.70E-08	9.22E-06	6.77E-27	0.00E+00
INFANT	3.78E-08	1.02E-08	1.22E-07	7.25E-08	8.18E-08	2.24E-05	1.84E-26	0.00E+00
INHAL								
ADULT	4.76E-09	7.07E-08	2.44E-09	5.60E-09	4.42E-09	5.11E-07	1.43E-06	0.00E+00
TEEN	6.38E-09	6.89E-08	3.45E-09	7.54E-09	6.11E-09	6.55E-07	2.10E-06	0.00E+00
CHILD	7.31E-09	6.75E-08	4.72E-09	7.00E-09	5.74E-09	7.85E-07	1.70E-06	0.00E+00
INFANT	4.18E-09	4.69E-08	3.56E-09	5.51E-09	3.79E-09	7.21E-07	1.09E-06	0.00E+00

TABLE 5. DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 2025 (Continued)

SPECIAL LOCATION NO. 5A Nearest Garden
AT 1.90 MILES SE

ANNUAL BETA AIR DOSE = 6.21E-06 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.44E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	9.69E-06	9.69E-06	9.69E-06	9.69E-06	9.69E-06	9.69E-06	9.74E-06	1.63E-05
GROUND	4.65E-05	4.65E-05	4.65E-05	4.65E-05	4.65E-05	4.65E-05	4.65E-05	5.47E-05
VEGET								
ADULT	7.22E-07	6.01E-06	3.01E-07	3.46E-07	4.58E-08	8.45E-06	2.79E-20	0.00E+00
TEEN	1.13E-06	6.41E-06	4.98E-07	5.30E-07	6.90E-08	1.14E-05	3.15E-20	0.00E+00
CHILD	2.28E-06	4.20E-06	1.21E-06	8.21E-07	1.11E-07	2.18E-05	3.76E-20	0.00E+00
MEAT								
ADULT	1.89E-07	1.61E-06	3.23E-09	8.62E-08	1.20E-09	2.26E-07	0.00E+00	0.00E+00
TEEN	1.50E-07	8.64E-07	2.72E-09	6.69E-08	9.77E-10	1.64E-07	0.00E+00	0.00E+00
CHILD	2.33E-07	4.36E-07	5.13E-09	7.95E-08	1.24E-09	2.47E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	5.28E-08	3.59E-07	2.72E-08	3.89E-08	3.46E-08	6.40E-06	4.19E-26	0.00E+00
TEEN	9.06E-08	4.23E-07	4.97E-08	6.75E-08	6.18E-08	1.01E-05	9.29E-26	0.00E+00
CHILD	1.81E-07	2.81E-07	1.22E-07	1.12E-07	1.03E-07	2.01E-05	1.48E-25	0.00E+00
INFANT	3.06E-07	2.47E-07	2.43E-07	2.53E-07	1.79E-07	4.89E-05	4.03E-25	0.00E+00
GOATMILK								
ADULT	1.92E-08	5.38E-08	4.45E-08	2.65E-08	4.16E-08	7.68E-06	5.03E-27	0.00E+00
TEEN	3.25E-08	6.54E-08	8.15E-08	4.68E-08	7.41E-08	1.22E-05	1.11E-26	0.00E+00
CHILD	6.28E-08	4.56E-08	2.00E-07	8.09E-08	1.23E-07	2.42E-05	1.77E-26	0.00E+00
INFANT	1.14E-07	4.16E-08	3.95E-07	1.96E-07	2.15E-07	5.87E-05	4.83E-26	0.00E+00
INHAL								
ADULT	1.11E-08	2.07E-07	2.11E-09	9.44E-09	1.62E-09	1.84E-07	4.31E-06	0.00E+00
TEEN	1.49E-08	1.91E-07	3.00E-09	1.25E-08	2.24E-09	2.35E-07	6.29E-06	0.00E+00
CHILD	1.71E-08	8.64E-08	4.12E-09	1.10E-08	2.10E-09	2.82E-07	5.10E-06	0.00E+00
INFANT	9.02E-09	3.77E-08	2.89E-09	7.15E-09	1.38E-09	2.59E-07	3.26E-06	0.00E+00

TABLE 6. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 2025

SPECIAL LOCATION NO. 1A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 6.50E-06 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.57E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.05E-05	1.05E-05	1.05E-05	1.05E-05	1.05E-05	1.05E-05	1.05E-05	1.75E-05
GROUND	2.05E-03	2.05E-03	2.05E-03	2.05E-03	2.05E-03	2.05E-03	2.05E-03	2.41E-03
VEGET								
ADULT	3.10E-05	2.63E-04	4.38E-06	1.42E-05	2.46E-07	4.26E-05	2.22E-19	0.00E+00
TEEN	4.87E-05	2.81E-04	7.26E-06	2.18E-05	3.71E-07	5.73E-05	2.50E-19	0.00E+00
CHILD	9.80E-05	1.84E-04	1.77E-05	3.35E-05	5.90E-07	1.10E-04	2.99E-19	0.00E+00
MEAT								
ADULT	8.32E-06	7.09E-05	4.40E-08	3.78E-06	6.27E-09	1.14E-06	0.00E+00	0.00E+00
TEEN	6.59E-06	3.81E-05	3.71E-08	2.93E-06	5.11E-09	8.25E-07	0.00E+00	0.00E+00
CHILD	1.03E-05	1.93E-05	7.02E-08	3.48E-06	6.44E-09	1.24E-06	0.00E+00	0.00E+00
COW MILK								
ADULT	1.88E-06	1.55E-05	2.71E-07	9.26E-07	1.75E-07	3.23E-05	3.33E-25	0.00E+00
TEEN	3.25E-06	1.83E-05	4.97E-07	1.58E-06	3.12E-07	5.12E-05	7.39E-25	0.00E+00
CHILD	6.59E-06	1.21E-05	1.22E-06	2.48E-06	5.20E-07	1.02E-04	1.18E-24	0.00E+00
INFANT	1.08E-05	1.06E-05	2.38E-06	5.20E-06	9.04E-07	2.47E-04	3.20E-24	0.00E+00
GOATMILK								
ADULT	2.98E-07	1.96E-06	5.05E-07	2.21E-07	2.10E-07	3.88E-05	4.00E-26	0.00E+00
TEEN	5.13E-07	2.32E-06	9.28E-07	3.85E-07	3.74E-07	6.14E-05	8.87E-26	0.00E+00
CHILD	1.03E-06	1.55E-06	2.29E-06	6.39E-07	6.23E-07	1.22E-04	1.41E-25	0.00E+00
INFANT	1.76E-06	1.38E-06	4.42E-06	1.46E-06	1.08E-06	2.96E-04	3.84E-25	0.00E+00
INHAL								
ADULT	3.58E-07	6.88E-06	2.27E-08	2.81E-07	2.57E-09	2.11E-07	1.44E-04	0.00E+00
TEEN	4.80E-07	6.27E-06	3.25E-08	3.69E-07	3.50E-09	2.71E-07	2.10E-04	0.00E+00
CHILD	5.48E-07	2.36E-06	4.48E-08	3.20E-07	3.17E-09	3.25E-07	1.70E-04	0.00E+00
INFANT	2.85E-07	7.99E-07	2.99E-08	1.96E-07	2.00E-09	2.99E-07	1.09E-04	0.00E+00

TABLE 6. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 2025 (Continued)

SPECIAL LOCATION NO. 2A Site Boundary
AT .65 MILES SE

ANNUAL BETA AIR DOSE = 2.00E-06 MILLRADS
ANNUAL GAMMA AIR DOSE = 4.82E-06 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.23E-06	3.24E-06	5.37E-06
GROUND	1.09E-03	1.09E-03	1.09E-03	1.09E-03	1.09E-03	1.09E-03	1.09E-03	1.28E-03
VEGET								
ADULT	1.65E-05	1.40E-04	2.28E-06	7.51E-06	1.14E-07	1.95E-05	1.02E-19	0.00E+00
TEEN	2.58E-05	1.49E-04	3.79E-06	1.15E-05	1.72E-07	2.62E-05	1.15E-19	0.00E+00
CHILD	5.20E-05	9.74E-05	9.26E-06	1.77E-05	2.73E-07	5.03E-05	1.37E-19	0.00E+00
MEAT								
ADULT	4.42E-06	3.76E-05	2.29E-08	2.00E-06	2.90E-09	5.22E-07	0.00E+00	0.00E+00
TEEN	3.50E-06	2.02E-05	1.93E-08	1.56E-06	2.36E-09	3.78E-07	0.00E+00	0.00E+00
CHILD	5.44E-06	1.02E-05	3.65E-08	1.85E-06	2.97E-09	5.70E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	9.93E-07	8.24E-06	1.37E-07	4.84E-07	8.03E-08	1.48E-05	1.53E-25	0.00E+00
TEEN	1.72E-06	9.68E-06	2.52E-07	8.24E-07	1.43E-07	2.35E-05	3.39E-25	0.00E+00
CHILD	3.48E-06	6.40E-06	6.20E-07	1.30E-06	2.38E-07	4.66E-05	5.39E-25	0.00E+00
INFANT	5.72E-06	5.62E-06	1.21E-06	2.70E-06	4.14E-07	1.13E-04	1.47E-24	0.00E+00
GOATMILK								
ADULT	1.53E-07	1.04E-06	2.59E-07	1.09E-07	9.62E-08	1.78E-05	1.83E-26	0.00E+00
TEEN	2.64E-07	1.23E-06	4.76E-07	1.88E-07	1.72E-07	2.81E-05	4.06E-26	0.00E+00
CHILD	5.32E-07	8.22E-07	1.17E-06	3.12E-07	2.85E-07	5.59E-05	6.47E-26	0.00E+00
INFANT	9.03E-07	7.28E-07	2.27E-06	7.07E-07	4.97E-07	1.36E-04	1.76E-25	0.00E+00
INHAL								
ADULT	2.96E-07	5.71E-06	1.84E-08	2.32E-07	1.09E-09	6.49E-08	1.19E-04	0.00E+00
TEEN	3.97E-07	5.20E-06	2.62E-08	3.05E-07	1.47E-09	8.32E-08	1.74E-04	0.00E+00
CHILD	4.54E-07	1.94E-06	3.62E-08	2.65E-07	1.28E-09	9.99E-08	1.41E-04	0.00E+00
INFANT	2.36E-07	6.49E-07	2.41E-08	1.62E-07	7.68E-10	9.18E-08	9.01E-05	0.00E+00

TABLE 6. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 2025 (Continued)

SPECIAL LOCATION NO. 3A Nearest Resident
AT 1.20 MILES NW

ANNUAL BETA AIR DOSE = 1.37E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 3.31E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.22E-04	2.22E-04	2.22E-04	2.22E-04	2.22E-04	2.22E-04	2.23E-04	3.69E-04
GROUND	2.31E-04	2.31E-04	2.31E-04	2.31E-04	2.31E-04	2.31E-04	2.31E-04	2.72E-04
VEGET								
ADULT	3.62E-06	2.98E-05	1.19E-06	1.79E-06	3.60E-07	6.75E-05	3.51E-19	0.00E+00
TEEN	5.67E-06	3.18E-05	1.96E-06	2.74E-06	5.43E-07	9.07E-05	3.96E-19	0.00E+00
CHILD	1.14E-05	2.08E-05	4.77E-06	4.26E-06	8.72E-07	1.74E-04	4.73E-19	0.00E+00
MEAT								
ADULT	9.41E-07	7.99E-06	1.40E-08	4.31E-07	9.46E-09	1.80E-06	0.00E+00	0.00E+00
TEEN	7.45E-07	4.30E-06	1.18E-08	3.34E-07	7.73E-09	1.31E-06	0.00E+00	0.00E+00
CHILD	1.16E-06	2.17E-06	2.21E-08	3.98E-07	9.81E-09	1.97E-06	0.00E+00	0.00E+00
COW MILK								
ADULT	2.96E-07	1.80E-06	1.60E-07	2.54E-07	2.77E-07	5.11E-05	5.27E-25	0.00E+00
TEEN	5.07E-07	2.12E-06	2.93E-07	4.44E-07	4.94E-07	8.10E-05	1.17E-24	0.00E+00
CHILD	1.00E-06	1.41E-06	7.14E-07	7.44E-07	8.22E-07	1.61E-04	1.86E-24	0.00E+00
INFANT	1.72E-06	1.25E-06	1.45E-06	1.72E-06	1.43E-06	3.91E-04	5.07E-24	0.00E+00
GOATMILK								
ADULT	1.35E-07	2.84E-07	2.36E-07	2.05E-07	3.32E-07	6.14E-05	6.33E-26	0.00E+00
TEEN	2.28E-07	3.48E-07	4.32E-07	3.63E-07	5.93E-07	9.72E-05	1.40E-25	0.00E+00
CHILD	4.34E-07	2.45E-07	1.06E-06	6.29E-07	9.86E-07	1.93E-04	2.23E-25	0.00E+00
INFANT	7.99E-07	2.25E-07	2.12E-06	1.53E-06	1.72E-06	4.69E-04	6.08E-25	0.00E+00
INHAL								
ADULT	4.67E-08	6.79E-07	2.11E-08	5.52E-08	4.16E-08	4.42E-06	1.38E-05	0.00E+00
TEEN	6.27E-08	6.79E-07	2.98E-08	7.44E-08	5.76E-08	5.66E-06	2.02E-05	0.00E+00
CHILD	7.21E-08	8.32E-07	4.06E-08	6.92E-08	5.41E-08	6.80E-06	1.64E-05	0.00E+00
INFANT	4.15E-08	6.17E-07	3.13E-08	5.48E-08	3.57E-08	6.25E-06	1.05E-05	0.00E+00

TABLE 6. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 2025 (Continued)

SPECIAL LOCATION NO. 4A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 5.06E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 1.22E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	8.17E-05	8.17E-05	8.17E-05	8.17E-05	8.17E-05	8.17E-05	8.20E-05	1.36E-04
GROUND	2.32E-05	2.32E-05	2.32E-05	2.32E-05	2.32E-05	2.32E-05	2.32E-05	2.73E-05
VEGET								
ADULT	3.70E-07	2.99E-06	1.58E-07	1.90E-07	5.49E-08	1.03E-05	5.36E-20	0.00E+00
TEEN	5.78E-07	3.19E-06	2.60E-07	2.91E-07	8.27E-08	1.38E-05	6.05E-20	0.00E+00
CHILD	1.16E-06	2.09E-06	6.33E-07	4.55E-07	1.33E-07	2.65E-05	7.22E-20	0.00E+00
MEAT								
ADULT	9.44E-08	8.00E-07	1.91E-09	4.34E-08	1.44E-09	2.75E-07	0.00E+00	0.00E+00
TEEN	7.48E-08	4.30E-07	1.60E-09	3.37E-08	1.18E-09	1.99E-07	0.00E+00	0.00E+00
CHILD	1.16E-07	2.17E-07	3.02E-09	4.01E-08	1.50E-09	3.01E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	3.44E-08	1.83E-07	2.34E-08	3.39E-08	4.23E-08	7.80E-06	8.05E-26	0.00E+00
TEEN	5.87E-08	2.17E-07	4.27E-08	5.95E-08	7.54E-08	1.24E-05	1.79E-25	0.00E+00
CHILD	1.15E-07	1.45E-07	1.04E-07	1.01E-07	1.25E-07	2.46E-05	2.84E-25	0.00E+00
INFANT	2.00E-07	1.28E-07	2.12E-07	2.37E-07	2.18E-07	5.97E-05	7.74E-25	0.00E+00
GOATMILK								
ADULT	1.93E-08	3.20E-08	3.38E-08	3.07E-08	5.07E-08	9.37E-06	9.66E-27	0.00E+00
TEEN	3.24E-08	3.97E-08	6.17E-08	5.44E-08	9.05E-08	1.48E-05	2.14E-26	0.00E+00
CHILD	6.14E-08	2.85E-08	1.51E-07	9.45E-08	1.50E-07	2.95E-05	3.41E-26	0.00E+00
INFANT	1.14E-07	2.65E-08	3.04E-07	2.30E-07	2.62E-07	7.16E-05	9.29E-26	0.00E+00
INHAL								
ADULT	1.11E-08	1.32E-07	7.47E-09	1.56E-08	1.55E-08	1.64E-06	2.61E-06	0.00E+00
TEEN	1.49E-08	1.43E-07	1.05E-08	2.12E-08	2.14E-08	2.10E-06	3.81E-06	0.00E+00
CHILD	1.72E-08	2.70E-07	1.44E-08	2.02E-08	2.01E-08	2.53E-06	3.09E-06	0.00E+00
INFANT	1.04E-08	2.18E-07	1.11E-08	1.70E-08	1.33E-08	2.32E-06	1.98E-06	0.00E+00

TABLE 6. DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 2025 (Continued)

SPECIAL LOCATION NO. 5A Nearest Garden
AT 1.90 MILES SE

ANNUAL BETA AIR DOSE = 8.67E-06 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.09E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.40E-05	1.40E-05	1.40E-05	1.40E-05	1.40E-05	1.40E-05	1.41E-05	2.33E-05
GROUND	8.12E-05	8.12E-05	8.12E-05	8.12E-05	8.12E-05	8.12E-05	8.12E-05	9.55E-05
VEGET								
ADULT	1.24E-06	1.04E-05	2.71E-07	5.88E-07	5.64E-08	1.05E-05	5.45E-20	0.00E+00
TEEN	1.95E-06	1.11E-05	4.46E-07	9.01E-07	8.49E-08	1.41E-05	6.15E-20	0.00E+00
CHILD	3.92E-06	7.28E-06	1.09E-06	1.39E-06	1.36E-07	2.70E-05	7.34E-20	0.00E+00
MEAT								
ADULT	3.30E-07	2.80E-06	3.00E-09	1.50E-07	1.48E-09	2.80E-07	0.00E+00	0.00E+00
TEEN	2.61E-07	1.51E-06	2.53E-09	1.16E-07	1.21E-09	2.03E-07	0.00E+00	0.00E+00
CHILD	4.06E-07	7.62E-07	4.76E-09	1.38E-07	1.53E-09	3.06E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	8.61E-08	6.21E-07	2.89E-08	5.76E-08	4.30E-08	7.94E-06	8.19E-26	0.00E+00
TEEN	1.48E-07	7.31E-07	5.28E-08	9.97E-08	7.67E-08	1.26E-05	1.82E-25	0.00E+00
CHILD	2.97E-07	4.85E-07	1.29E-07	1.63E-07	1.28E-07	2.50E-05	2.89E-25	0.00E+00
INFANT	4.98E-07	4.27E-07	2.60E-07	3.65E-07	2.22E-07	6.07E-05	7.87E-25	0.00E+00
GOATMILK								
ADULT	2.61E-08	8.64E-08	4.51E-08	3.40E-08	5.16E-08	9.53E-06	9.83E-27	0.00E+00
TEEN	4.41E-08	1.04E-07	8.26E-08	6.00E-08	9.20E-08	1.51E-05	2.18E-26	0.00E+00
CHILD	8.53E-08	7.13E-08	2.03E-07	1.03E-07	1.53E-07	3.00E-05	3.47E-26	0.00E+00
INFANT	1.54E-07	6.43E-08	4.02E-07	2.49E-07	2.66E-07	7.28E-05	9.45E-26	0.00E+00
INHAL								
ADULT	3.04E-08	5.72E-07	3.02E-09	2.50E-08	2.70E-09	2.81E-07	1.19E-05	0.00E+00
TEEN	4.08E-08	5.25E-07	4.29E-09	3.29E-08	3.73E-09	3.61E-07	1.74E-05	0.00E+00
CHILD	4.66E-08	2.32E-07	5.89E-09	2.89E-08	3.49E-09	4.33E-07	1.41E-05	0.00E+00
INFANT	2.45E-08	9.90E-08	4.19E-09	1.84E-08	2.30E-09	3.98E-07	9.01E-06	0.00E+00

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 2025

SPECIAL LOCATION NO. 1A Site Boundary
AT .67 MILES N

ANNUAL BETA AIR DOSE = 2.04E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 5.53E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.70E-05	3.70E-05	3.70E-05	3.70E-05	3.70E-05	3.70E-05	3.71E-05	5.93E-05
GROUND	2.28E-03	2.28E-03	2.28E-03	2.28E-03	2.28E-03	2.28E-03	2.28E-03	2.68E-03
VEGET								
ADULT	3.45E-05	2.93E-04	4.32E-06	1.59E-05	5.66E-07	1.04E-04	5.14E-19	0.00E+00
TEEN	5.42E-05	3.12E-04	7.14E-06	2.44E-05	8.54E-07	1.39E-04	5.80E-19	0.00E+00
CHILD	1.09E-04	2.04E-04	1.74E-05	3.76E-05	1.37E-06	2.67E-04	6.93E-19	0.00E+00
MEAT								
ADULT	9.25E-06	7.87E-05	4.56E-08	4.20E-06	1.48E-08	2.77E-06	0.00E+00	0.00E+00
TEEN	7.33E-06	4.24E-05	3.84E-08	3.26E-06	1.20E-08	2.01E-06	0.00E+00	0.00E+00
CHILD	1.14E-05	2.14E-05	7.26E-08	3.87E-06	1.53E-08	3.03E-06	0.00E+00	0.00E+00
COW MILK								
ADULT	2.16E-06	1.73E-05	3.62E-07	1.16E-06	4.24E-07	7.85E-05	7.72E-25	0.00E+00
TEEN	3.73E-06	2.03E-05	6.63E-07	1.99E-06	7.57E-07	1.24E-04	1.71E-24	0.00E+00
CHILD	7.55E-06	1.34E-05	1.62E-06	3.17E-06	1.26E-06	2.47E-04	2.73E-24	0.00E+00
INFANT	1.25E-05	1.18E-05	3.23E-06	6.79E-06	2.19E-06	6.00E-04	7.42E-24	0.00E+00
GOATMILK								
ADULT	4.19E-07	2.21E-06	6.07E-07	4.06E-07	5.09E-07	9.42E-05	9.27E-26	0.00E+00
TEEN	7.16E-07	2.63E-06	1.11E-06	7.13E-07	9.07E-07	1.49E-04	2.06E-25	0.00E+00
CHILD	1.42E-06	1.77E-06	2.73E-06	1.21E-06	1.51E-06	2.96E-04	3.27E-25	0.00E+00
INFANT	2.46E-06	1.57E-06	5.37E-06	2.84E-06	2.63E-06	7.20E-04	8.91E-25	0.00E+00
INHAL								
ADULT	3.93E-07	7.55E-06	1.97E-08	3.09E-07	4.62E-09	4.75E-07	1.58E-04	0.00E+00
TEEN	5.27E-07	6.88E-06	2.81E-08	4.06E-07	6.34E-09	6.07E-07	2.31E-04	0.00E+00
CHILD	6.02E-07	2.62E-06	3.88E-08	3.53E-07	5.87E-09	7.27E-07	1.87E-04	0.00E+00
INFANT	3.13E-07	9.04E-07	2.61E-08	2.17E-07	3.80E-09	6.67E-07	1.19E-04	0.00E+00

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 2025 (Continued)

SPECIAL LOCATION NO. 2A Site Boundary
AT .65 MILES SE

ANNUAL BETA AIR DOSE = 7.53E-06 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.04E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.36E-05	1.36E-05	1.36E-05	1.36E-05	1.36E-05	1.36E-05	1.37E-05	2.19E-05
GROUND	1.56E-03	1.56E-03	1.56E-03	1.56E-03	1.56E-03	1.56E-03	1.56E-03	1.84E-03
VEGET								
ADULT	2.37E-05	2.01E-04	2.71E-06	1.08E-05	2.63E-07	4.74E-05	2.35E-19	0.00E+00
TEEN	3.71E-05	2.14E-04	4.49E-06	1.66E-05	3.96E-07	6.37E-05	2.65E-19	0.00E+00
CHILD	7.47E-05	1.40E-04	1.10E-05	2.56E-05	6.33E-07	1.22E-04	3.17E-19	0.00E+00
MEAT								
ADULT	6.35E-06	5.40E-05	2.80E-08	2.88E-06	6.81E-09	1.27E-06	0.00E+00	0.00E+00
TEEN	5.03E-06	2.91E-05	2.36E-08	2.24E-06	5.55E-09	9.18E-07	0.00E+00	0.00E+00
CHILD	7.82E-06	1.47E-05	4.47E-08	2.65E-06	7.03E-09	1.39E-06	0.00E+00	0.00E+00
COW MILK								
ADULT	1.45E-06	1.18E-05	2.00E-07	7.41E-07	1.94E-07	3.59E-05	3.53E-25	0.00E+00
TEEN	2.51E-06	1.39E-05	3.67E-07	1.26E-06	3.46E-07	5.68E-05	7.83E-25	0.00E+00
CHILD	5.08E-06	9.21E-06	9.01E-07	2.00E-06	5.75E-07	1.13E-04	1.25E-24	0.00E+00
INFANT	8.36E-06	8.08E-06	1.78E-06	4.23E-06	1.00E-06	2.74E-04	3.39E-24	0.00E+00
GOATMILK								
ADULT	2.49E-07	1.50E-06	3.50E-07	2.11E-07	2.33E-07	4.30E-05	4.24E-26	0.00E+00
TEEN	4.27E-07	1.77E-06	6.42E-07	3.68E-07	4.15E-07	6.82E-05	9.40E-26	0.00E+00
CHILD	8.52E-07	1.19E-06	1.58E-06	6.18E-07	6.90E-07	1.35E-04	1.50E-25	0.00E+00
INFANT	1.46E-06	1.05E-06	3.08E-06	1.43E-06	1.20E-06	3.29E-04	4.07E-25	0.00E+00
INHAL								
ADULT	3.27E-07	6.29E-06	1.56E-08	2.56E-07	1.94E-09	1.77E-07	1.32E-04	0.00E+00
TEEN	4.38E-07	5.73E-06	2.22E-08	3.36E-07	2.65E-09	2.27E-07	1.92E-04	0.00E+00
CHILD	5.00E-07	2.15E-06	3.07E-08	2.92E-07	2.42E-09	2.71E-07	1.56E-04	0.00E+00
INFANT	2.60E-07	7.28E-07	2.05E-08	1.79E-07	1.53E-09	2.49E-07	9.94E-05	0.00E+00

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 2025 (Continued)

SPECIAL LOCATION NO. 3A Nearest Resident
AT 1.20 MILES NW

ANNUAL BETA AIR DOSE = 2.47E-04 MILLRADS
ANNUAL GAMMA AIR DOSE = 6.69E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.47E-04	4.47E-04	4.47E-04	4.47E-04	4.47E-04	4.47E-04	4.49E-04	7.18E-04
GROUND	2.92E-04	2.92E-04	2.92E-04	2.92E-04	2.92E-04	2.92E-04	2.92E-04	3.43E-04
VEGET								
ADULT	4.60E-06	3.76E-05	1.50E-06	2.31E-06	5.52E-07	1.04E-04	5.14E-19	0.00E+00
TEEN	7.19E-06	4.01E-05	2.46E-06	3.54E-06	8.32E-07	1.39E-04	5.80E-19	0.00E+00
CHILD	1.44E-05	2.63E-05	5.98E-06	5.52E-06	1.34E-06	2.67E-04	6.93E-19	0.00E+00
MEAT								
ADULT	1.19E-06	1.01E-05	1.83E-08	5.45E-07	1.45E-08	2.77E-06	0.00E+00	0.00E+00
TEEN	9.41E-07	5.42E-06	1.54E-08	4.23E-07	1.19E-08	2.01E-06	0.00E+00	0.00E+00
CHILD	1.46E-06	2.74E-06	2.89E-08	5.03E-07	1.51E-08	3.03E-06	0.00E+00	0.00E+00
COW MILK								
ADULT	3.98E-07	2.28E-06	2.30E-07	3.64E-07	4.24E-07	7.85E-05	7.72E-25	0.00E+00
TEEN	6.80E-07	2.70E-06	4.20E-07	6.37E-07	7.56E-07	1.24E-04	1.71E-24	0.00E+00
CHILD	1.34E-06	1.80E-06	1.02E-06	1.07E-06	1.26E-06	2.47E-04	2.73E-24	0.00E+00
INFANT	2.31E-06	1.59E-06	2.09E-06	2.50E-06	2.19E-06	6.00E-04	7.42E-24	0.00E+00
GOATMILK								
ADULT	2.00E-07	3.72E-07	3.30E-07	3.10E-07	5.09E-07	9.42E-05	9.27E-26	0.00E+00
TEEN	3.36E-07	4.58E-07	6.03E-07	5.50E-07	9.07E-07	1.49E-04	2.06E-25	0.00E+00
CHILD	6.37E-07	3.25E-07	1.47E-06	9.55E-07	1.51E-06	2.96E-04	3.27E-25	0.00E+00
INFANT	1.18E-06	2.99E-07	2.97E-06	2.32E-06	2.63E-06	7.20E-04	8.91E-25	0.00E+00
INHAL								
ADULT	5.17E-08	7.44E-07	2.43E-08	6.22E-08	5.10E-08	5.82E-06	1.51E-05	0.00E+00
TEEN	6.93E-08	7.57E-07	3.43E-08	8.39E-08	7.05E-08	7.45E-06	2.20E-05	0.00E+00
CHILD	7.94E-08	1.04E-06	4.67E-08	7.82E-08	6.62E-08	8.91E-06	1.79E-05	0.00E+00
INFANT	4.58E-08	7.84E-07	3.61E-08	6.23E-08	4.37E-08	8.19E-06	1.14E-05	0.00E+00

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 2025 (Continued)

SPECIAL LOCATION NO. 4A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 8.61E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 2.33E-04 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.56E-04	1.56E-04	1.56E-04	1.56E-04	1.56E-04	1.56E-04	1.56E-04	2.50E-04
GROUND	2.66E-05	2.66E-05	2.66E-05	2.66E-05	2.66E-05	2.66E-05	2.66E-05	3.12E-05
VEGET								
ADULT	4.28E-07	3.44E-06	1.86E-07	2.26E-07	7.56E-08	1.42E-05	7.05E-20	0.00E+00
TEEN	6.68E-07	3.66E-06	3.05E-07	3.45E-07	1.14E-07	1.91E-05	7.95E-20	0.00E+00
CHILD	1.34E-06	2.40E-06	7.42E-07	5.40E-07	1.83E-07	3.66E-05	9.50E-20	0.00E+00
MEAT								
ADULT	1.08E-07	9.17E-07	2.32E-09	5.00E-08	1.99E-09	3.80E-07	0.00E+00	0.00E+00
TEEN	8.58E-08	4.94E-07	1.95E-09	3.88E-08	1.63E-09	2.75E-07	0.00E+00	0.00E+00
CHILD	1.33E-07	2.49E-07	3.66E-09	4.62E-08	2.07E-09	4.16E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	4.26E-08	2.11E-07	3.07E-08	4.45E-08	5.81E-08	1.08E-05	1.06E-25	0.00E+00
TEEN	7.26E-08	2.50E-07	5.60E-08	7.82E-08	1.04E-07	1.70E-05	2.35E-25	0.00E+00
CHILD	1.42E-07	1.68E-07	1.36E-07	1.33E-07	1.72E-07	3.38E-05	3.74E-25	0.00E+00
INFANT	2.48E-07	1.49E-07	2.79E-07	3.14E-07	3.00E-07	8.22E-05	1.02E-24	0.00E+00
GOATMILK								
ADULT	2.59E-08	3.86E-08	4.34E-08	4.19E-08	6.98E-08	1.29E-05	1.27E-26	0.00E+00
TEEN	4.35E-08	4.81E-08	7.92E-08	7.44E-08	1.24E-07	2.05E-05	2.82E-26	0.00E+00
CHILD	8.21E-08	3.48E-08	1.94E-07	1.29E-07	2.07E-07	4.06E-05	4.49E-26	0.00E+00
INFANT	1.53E-07	3.24E-08	3.91E-07	3.15E-07	3.60E-07	9.87E-05	1.22E-25	0.00E+00
INHAL								
ADULT	1.12E-08	1.29E-07	8.14E-09	1.64E-08	1.77E-08	2.02E-06	2.53E-06	0.00E+00
TEEN	1.51E-08	1.45E-07	1.15E-08	2.23E-08	2.45E-08	2.59E-06	3.70E-06	0.00E+00
CHILD	1.73E-08	3.17E-07	1.56E-08	2.12E-08	2.30E-08	3.10E-06	3.00E-06	0.00E+00
INFANT	1.06E-08	2.58E-07	1.22E-08	1.80E-08	1.52E-08	2.85E-06	1.93E-06	0.00E+00

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 2025 (Continued)

SPECIAL LOCATION NO. 5A Nearest Garden
AT 1.90 MILES SE

ANNUAL BETA AIR DOSE = 2.47E-05 MILLRADS
ANNUAL GAMMA AIR DOSE = 6.69E-05 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.47E-05	4.47E-05	4.47E-05	4.47E-05	4.47E-05	4.47E-05	4.49E-05	7.18E-05
GROUND	1.20E-04	1.20E-04	1.20E-04	1.20E-04	1.20E-04	1.20E-04	1.20E-04	1.41E-04
VEGET								
ADULT	1.85E-06	1.54E-05	4.17E-07	8.91E-07	1.27E-07	2.37E-05	1.17E-19	0.00E+00
TEEN	2.89E-06	1.64E-05	6.87E-07	1.37E-06	1.91E-07	3.19E-05	1.33E-19	0.00E+00
CHILD	5.82E-06	1.07E-05	1.67E-06	2.12E-06	3.07E-07	6.10E-05	1.58E-19	0.00E+00
MEAT								
ADULT	4.86E-07	4.13E-06	4.91E-09	2.22E-07	3.33E-09	6.34E-07	0.00E+00	0.00E+00
TEEN	3.85E-07	2.22E-06	4.12E-09	1.72E-07	2.72E-09	4.59E-07	0.00E+00	0.00E+00
CHILD	5.99E-07	1.12E-06	7.76E-09	2.05E-07	3.45E-09	6.93E-07	0.00E+00	0.00E+00
COW MILK								
ADULT	1.38E-07	9.21E-07	5.62E-08	1.04E-07	9.69E-08	1.79E-05	1.76E-25	0.00E+00
TEEN	2.37E-07	1.09E-06	1.02E-07	1.82E-07	1.73E-07	2.84E-05	3.92E-25	0.00E+00
CHILD	4.72E-07	7.21E-07	2.50E-07	3.01E-07	2.87E-07	5.64E-05	6.23E-25	0.00E+00
INFANT	7.97E-07	6.35E-07	5.08E-07	6.86E-07	5.00E-07	1.37E-04	1.70E-24	0.00E+00
GOATMILK								
ADULT	5.15E-08	1.34E-07	8.28E-08	7.35E-08	1.16E-07	2.15E-05	2.12E-26	0.00E+00
TEEN	8.70E-08	1.62E-07	1.51E-07	1.30E-07	2.07E-07	3.41E-05	4.70E-26	0.00E+00
CHILD	1.66E-07	1.13E-07	3.70E-07	2.25E-07	3.45E-07	6.77E-05	7.48E-26	0.00E+00
INFANT	3.04E-07	1.02E-07	7.43E-07	5.45E-07	6.00E-07	1.64E-04	2.04E-25	0.00E+00
INHAL								
ADULT	3.19E-08	5.90E-07	3.65E-09	2.71E-08	5.13E-09	5.82E-07	1.23E-05	0.00E+00
TEEN	4.28E-08	5.45E-07	5.17E-09	3.59E-08	7.09E-09	7.45E-07	1.80E-05	0.00E+00
CHILD	4.89E-08	2.78E-07	7.08E-09	3.17E-08	6.65E-09	8.91E-07	1.46E-05	0.00E+00
INFANT	2.59E-08	1.36E-07	5.21E-09	2.08E-08	4.39E-09	8.19E-07	9.29E-06	0.00E+00

TABLE 8. DOSES TO POPULATION WITHIN 50 MILES, JANUARY-MARCH 2025

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	9.13E-05	9.13E-05	9.13E-05	9.13E-05	9.13E-05	9.13E-05	9.16E-05	1.58E-04
	90.57%	88.89%	90.87%	90.76%	90.88%	78.39%	89.35%	93.69%
GROUND	9.08E-06	9.08E-06	9.08E-06	9.08E-06	9.08E-06	9.08E-06	9.08E-06	1.07E-05
	9.00%	8.84%	9.03%	9.02%	9.03%	7.79%	8.86%	6.31%
INHAL	7.40E-09	8.42E-08	4.74E-09	9.51E-09	1.04E-08	1.43E-06	1.84E-06	0.00E+00
	.01%	.08%	.00%	.01%	.01%	1.23%	1.79%	.00%
VEGET	2.81E-07	1.52E-06	5.09E-08	1.14E-07	1.03E-09	1.97E-07	0.00E+00	0.00E+00
	.28%	1.48%	.05%	.11%	.00%	.17%	.00%	.00%
COW MILK	6.24E-08	1.92E-07	4.51E-08	5.88E-08	7.41E-08	1.42E-05	3.30E-36	0.00E+00
	.06%	.19%	.04%	.06%	.07%	12.16%	.00%	.00%
MEAT	7.98E-08	5.38E-07	1.55E-09	3.48E-08	1.62E-09	3.10E-07	0.00E+00	0.00E+00
	.08%	.52%	.00%	.03%	.00%	.27%	.00%	.00%
TOTAL	1.01E-04	1.03E-04	1.00E-04	1.01E-04	1.00E-04	1.16E-04	1.02E-04	1.69E-04

TABLE 9. DOSES TO POPULATION WITHIN 50 MILES, APRIL-JUNE 2025

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.08E-05	5.08E-05	5.08E-05	5.08E-05	5.08E-05	5.08E-05	5.10E-05	8.87E-05
	76.06%	72.80%	76.60%	76.43%	76.65%	52.37%	73.71%	83.13%
GROUND	1.53E-05	1.53E-05	1.53E-05	1.53E-05	1.53E-05	1.53E-05	1.53E-05	1.80E-05
	22.91%	21.93%	23.08%	23.03%	23.09%	15.78%	22.12%	16.87%
INHAL	1.28E-08	1.30E-07	9.71E-09	1.78E-08	2.11E-08	2.85E-06	2.89E-06	0.00E+00
	.02%	.19%	.01%	.03%	.03%	2.94%	4.17%	.00%
VEGET	4.42E-07	2.40E-06	1.14E-07	1.80E-07	2.21E-09	3.67E-07	0.00E+00	0.00E+00
	.66%	3.44%	.17%	.27%	.00%	.38%	.00%	.00%
COW MILK	1.06E-07	3.04E-07	8.95E-08	1.07E-07	1.42E-07	2.71E-05	4.23E-36	0.00E+00
	.16%	.44%	.14%	.16%	.21%	27.93%	.00%	.00%
MEAT	1.25E-07	8.42E-07	3.25E-09	5.48E-08	3.07E-09	5.85E-07	0.00E+00	0.00E+00
	.19%	1.21%	.00%	.08%	.00%	.60%	.00%	.00%
TOTAL	6.68E-05	6.97E-05	6.63E-05	6.64E-05	6.62E-05	9.70E-05	6.92E-05	1.07E-04

TABLE 10. DOSES TO POPULATION WITHIN 50 MILES, JANUARY-JUNE 2025

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.42E-04	1.42E-04	1.42E-04	1.42E-04	1.42E-04	1.42E-04	1.42E-04	2.47E-04
	84.86%	82.46%	85.27%	85.14%	85.30%	66.75%	83.12%	89.66%
GROUND	2.42E-05	2.42E-05	2.42E-05	2.42E-05	2.42E-05	2.42E-05	2.42E-05	2.84E-05
	14.47%	14.06%	14.54%	14.52%	14.55%	11.38%	14.13%	10.34%
INHAL	2.01E-08	2.14E-07	1.43E-08	2.70E-08	3.11E-08	4.23E-06	4.72E-06	0.00E+00
	.01%	.12%	.01%	.02%	.02%	1.99%	2.76%	.00%
VEGET	7.20E-07	3.91E-06	1.63E-07	2.92E-07	3.20E-09	5.60E-07	0.00E+00	0.00E+00
	.43%	2.27%	.10%	.18%	.00%	.26%	.00%	.00%
COW MILK	1.68E-07	4.94E-07	1.33E-07	1.65E-07	2.13E-07	4.08E-05	7.45E-36	0.00E+00
	.10%	.29%	.08%	.10%	.13%	19.19%	.00%	.00%
MEAT	2.04E-07	1.37E-06	4.75E-09	8.91E-08	4.64E-09	8.86E-07	0.00E+00	0.00E+00
	.12%	.80%	.00%	.05%	.00%	.42%	.00%	.00%
TOTAL	1.67E-04	1.72E-04	1.66E-04	1.67E-04	1.66E-04	2.12E-04	1.71E-04	2.75E-04

TABLE 11. DOSES TO POPULATION WITHIN 50 MILES, JULY-SEPTEMBER 2025

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.92E-05	4.92E-05	4.92E-05	4.92E-05	4.92E-05	4.92E-05	4.95E-05	8.85E-05
	54.26%	50.13%	55.10%	54.77%	55.11%	38.67%	49.46%	65.37%
GROUND	3.98E-05	3.98E-05	3.98E-05	3.98E-05	3.98E-05	3.98E-05	3.98E-05	4.69E-05
	43.96%	40.61%	44.63%	44.37%	44.65%	31.33%	39.81%	34.63%
INHAL	3.96E-08	4.63E-07	2.07E-08	4.76E-08	4.57E-08	5.87E-06	1.07E-05	0.00E+00
	.04%	.47%	.02%	.05%	.05%	4.62%	10.73%	.00%
VEGET	1.07E-06	5.83E-06	1.14E-07	4.34E-07	2.23E-09	4.28E-07	0.00E+00	0.00E+00
	1.18%	5.95%	.13%	.48%	.00%	.34%	.00%	.00%
COW MILK	1.99E-07	7.24E-07	9.99E-08	1.54E-07	1.63E-07	3.11E-05	6.52E-36	0.00E+00
	.22%	.74%	.11%	.17%	.18%	24.50%	.00%	.00%
MEAT	3.05E-07	2.06E-06	3.49E-09	1.32E-07	3.57E-09	6.81E-07	0.00E+00	0.00E+00
	.34%	2.10%	.00%	.15%	.00%	.54%	.00%	.00%
TOTAL	9.06E-05	9.81E-05	8.92E-05	8.98E-05	8.92E-05	1.27E-04	1.00E-04	1.35E-04

TABLE 12. DOSES TO POPULATION WITHIN 50 MILES, OCTOBER-DECEMBER 2025

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.32E-05	4.32E-05	4.32E-05	4.32E-05	4.32E-05	4.32E-05	4.36E-05	8.03E-05
	56.03%	51.60%	56.73%	56.58%	56.95%	39.29%	51.06%	67.74%
GROUND	3.25E-05	3.25E-05	3.25E-05	3.25E-05	3.25E-05	3.25E-05	3.25E-05	3.82E-05
	42.11%	38.78%	42.63%	42.52%	42.80%	29.53%	38.07%	32.26%
INHAL	3.17E-08	3.78E-07	1.77E-08	3.53E-08	2.99E-08	3.96E-06	9.27E-06	0.00E+00
	.04%	.45%	.02%	.05%	.04%	3.60%	10.87%	.00%
VEGET	9.58E-07	5.20E-06	3.31E-07	3.89E-07	3.14E-09	4.05E-07	0.00E+00	0.00E+00
	1.24%	6.21%	.43%	.51%	.00%	.37%	.00%	.00%
COW MILK	1.80E-07	6.47E-07	1.36E-07	1.42E-07	1.54E-07	2.93E-05	3.18E-36	0.00E+00
	.23%	.77%	.18%	.19%	.20%	26.63%	.00%	.00%
MEAT	2.71E-07	1.83E-06	7.21E-09	1.17E-07	3.37E-09	6.41E-07	0.00E+00	0.00E+00
	.35%	2.18%	.01%	.15%	.00%	.58%	.00%	.00%
TOTAL	7.72E-05	8.38E-05	7.62E-05	7.64E-05	7.59E-05	1.10E-04	8.53E-05	1.18E-04

TABLE 13. DOSES TO POPULATION WITHIN 50 MILES, JULY-DECEMBER 2025

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	9.07E-05	9.07E-05	9.07E-05	9.07E-05	9.07E-05	9.07E-05	9.14E-05	1.66E-04
	54.67%	50.39%	55.44%	55.20%	55.55%	38.60%	49.76%	66.20%
GROUND	7.22E-05	7.22E-05	7.22E-05	7.22E-05	7.22E-05	7.22E-05	7.22E-05	8.49E-05
	43.49%	40.09%	44.11%	43.92%	44.20%	30.71%	39.30%	33.80%
INHAL	7.13E-08	8.39E-07	3.84E-08	8.27E-08	7.51E-08	9.79E-06	2.01E-05	0.00E+00
	.04%	.47%	.02%	.05%	.05%	4.16%	10.94%	.00%
VEGET	2.03E-06	1.10E-05	4.46E-07	8.23E-07	5.35E-09	8.29E-07	0.00E+00	0.00E+00
	1.22%	6.13%	.27%	.50%	.00%	.35%	.00%	.00%
COW MILK	3.78E-07	1.37E-06	2.35E-07	2.95E-07	3.16E-07	6.02E-05	9.38E-36	0.00E+00
	.23%	.76%	.14%	.18%	.19%	25.61%	.00%	.00%
MEAT	5.76E-07	3.89E-06	1.07E-08	2.49E-07	6.91E-09	1.32E-06	0.00E+00	0.00E+00
	.35%	2.16%	.01%	.15%	.00%	.56%	.00%	.00%
TOTAL	1.66E-04	1.80E-04	1.64E-04	1.64E-04	1.63E-04	2.35E-04	1.84E-04	2.51E-04

TABLE 14. DOSES TO POPULATION WITHIN 50 MILES, JANUARY-DECEMBER 2025

ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (PERSON-REM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.28E-04	2.28E-04	2.28E-04	2.28E-04	2.28E-04	2.28E-04	2.30E-04	4.05E-04
	69.81%	66.00%	70.48%	70.27%	70.57%	51.72%	66.18%	78.45%
GROUND	9.46E-05	9.46E-05	9.46E-05	9.46E-05	9.46E-05	9.46E-05	9.46E-05	1.11E-04
	28.92%	27.34%	29.20%	29.11%	29.23%	21.43%	27.28%	21.55%
INHAL	8.46E-08	9.66E-07	5.00E-08	1.03E-07	1.02E-07	1.35E-05	2.27E-05	0.00E+00
	.03%	.28%	.02%	.03%	.03%	3.06%	6.53%	.00%
VEGET	2.75E-06	1.49E-05	6.09E-07	1.11E-06	8.57E-09	1.39E-06	0.00E+00	0.00E+00
	.84%	4.32%	.19%	.34%	.00%	.32%	.00%	.00%
COW MILK	5.47E-07	1.87E-06	3.70E-07	4.61E-07	5.31E-07	1.01E-04	1.67E-35	0.00E+00
	.17%	.54%	.11%	.14%	.16%	22.98%	.00%	.00%
MEAT	7.80E-07	5.27E-06	1.55E-08	3.38E-07	1.16E-08	2.21E-06	0.00E+00	0.00E+00
	.24%	1.52%	.00%	.10%	.00%	.50%	.00%	.00%
TOTAL	3.27E-04	3.46E-04	3.24E-04	3.25E-04	3.24E-04	4.42E-04	3.47E-04	5.17E-04

CARBON-14 GASEOUS EFFLUENT DOSE CALCULATIONS

Doses to the maximum individual resulting from the release of Carbon-14 in gaseous effluents from the Cooper Nuclear Station (CNS) were calculated using the latest version of the GASPAR computer code included as part of NRCDose 2.3.20 (ORNL 2015). Four pathways were selected for individual dose calculations: the nearest site boundary for inhalation, nearest garden for vegetation ingestion, nearest animal for meat ingestion, and the nearest milk animal (cow). Based on the 2025 Land Use Census, there are no meat or milk animals identified within 5 miles of CNS. However, CNS maintains a virtual cow receptor at 3.5 miles north-northwest of the plant and conservatively includes this receptor in dose calculations.

Use of a normalized Carbon-14 source term and scaling factors based on the annual thermal gigawatts (GW_T) power generation were utilized to determine the quantity of Carbon-14 in the CNS gaseous effluent discharge for 2025. Specifically, the Boiling Water Reactor proxy production rate of 5.1 curies Carbon-14 per GW_T generation using the methodology described in EPRI, 2010 was the basis for the CNS total calculated emissions of 12.1 curies of Carbon-14 in 2025.

GASPAR implements the radiological dose models of Regulatory Guide 1.109 for determining the radiation exposure to man from four principal atmospheric exposure pathways: plume, ground, inhalation, and ingestion. Doses to the maximum individual are calculated as a function of age group and pathway for significant body organs.

Tables 15 through 21 present maximum individual doses. Note that the inhalation pathway was calculated at the closest site boundary receptor and was negligible for Carbon-14 and is not included in the tables. In addition, the doses presented were conservatively calculated based on the annual site X/Qs. These X/Qs result in doses approximately 20% higher than those calculated with the X/Qs based on growing season meteorology.

Additional assumptions and data used for input to the GASPAR code are described in a separate section of this appendix (see page C66).

TABLE 15. CARBON-14 DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 2025

SPECIAL LOCATION NO. 4A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 0.00E+00 MILLRADS
ANNUAL GAMMA AIR DOSE = 0.00E+00 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
VEGET								
ADULT	4.30E-03	4.30E-03	2.15E-02	4.30E-03	4.30E-03	4.30E-03	4.30E-03	4.30E-03
TEEN	7.18E-03	7.18E-03	3.59E-02	7.18E-03	7.18E-03	7.18E-03	7.18E-03	7.18E-03
CHILD	1.75E-02	1.75E-02	8.74E-02	1.75E-02	1.75E-02	1.75E-02	1.75E-02	1.75E-02
MEAT								
ADULT	1.71E-03	1.71E-03	8.57E-03	1.71E-03	1.71E-03	1.71E-03	1.71E-03	1.71E-03
TEEN	1.45E-03	1.45E-03	7.24E-03	1.45E-03	1.45E-03	1.45E-03	1.45E-03	1.45E-03
CHILD	2.72E-03	2.72E-03	1.36E-02	2.72E-03	2.72E-03	2.72E-03	2.72E-03	2.72E-03
COW MILK								
ADULT	1.87E-03	1.87E-03	9.35E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03
TEEN	3.45E-03	3.45E-03	1.72E-02	3.45E-03	3.45E-03	3.45E-03	3.45E-03	3.45E-03
CHILD	8.48E-03	8.48E-03	4.24E-02	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03
INFANT	1.77E-02	1.77E-02	8.31E-02	1.77E-02	1.77E-02	1.77E-02	1.77E-02	1.77E-02
GOATMILK								
ADULT	1.87E-03	1.87E-03	9.35E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03	1.87E-03
TEEN	3.45E-03	3.45E-03	1.72E-02	3.45E-03	3.45E-03	3.45E-03	3.45E-03	3.45E-03
CHILD	8.48E-03	8.48E-03	4.24E-02	8.48E-03	8.48E-03	8.48E-03	8.48E-03	8.48E-03
INFANT	1.77E-02	1.77E-02	8.31E-02	1.77E-02	1.77E-02	1.77E-02	1.77E-02	1.77E-02

TABLE 15. CARBON-14 DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 2025 (Continued)

SPECIAL LOCATION NO. 5A Nearest Garden
AT 1.70 MILES ENE

ANNUAL BETA AIR DOSE = 0.00E+00 MILLRADS
ANNUAL GAMMA AIR DOSE = 0.00E+00 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
VEGET								
ADULT	1.75E-02	1.75E-02	8.75E-02	1.75E-02	1.75E-02	1.75E-02	1.75E-02	1.75E-02
TEEN	2.93E-02	2.93E-02	1.46E-01	2.93E-02	2.93E-02	2.93E-02	2.93E-02	2.93E-02
CHILD	7.12E-02	7.12E-02	3.56E-01	7.12E-02	7.12E-02	7.12E-02	7.12E-02	7.12E-02
MEAT								
ADULT	6.98E-03	6.98E-03	3.49E-02	6.98E-03	6.98E-03	6.98E-03	6.98E-03	6.98E-03
TEEN	5.90E-03	5.90E-03	2.95E-02	5.90E-03	5.90E-03	5.90E-03	5.90E-03	5.90E-03
CHILD	1.11E-02	1.11E-02	5.55E-02	1.11E-02	1.11E-02	1.11E-02	1.11E-02	1.11E-02
COW MILK								
ADULT	7.62E-03	7.62E-03	3.81E-02	7.62E-03	7.62E-03	7.62E-03	7.62E-03	7.62E-03
TEEN	1.41E-02	1.41E-02	7.03E-02	1.41E-02	1.41E-02	1.41E-02	1.41E-02	1.41E-02
CHILD	3.46E-02	3.46E-02	1.73E-01	3.46E-02	3.46E-02	3.46E-02	3.46E-02	3.46E-02
INFANT	7.23E-02	7.23E-02	3.38E-01	7.23E-02	7.23E-02	7.23E-02	7.23E-02	7.23E-02
GOATMILK								
ADULT	7.62E-03	7.62E-03	3.81E-02	7.62E-03	7.62E-03	7.62E-03	7.62E-03	7.62E-03
TEEN	1.41E-02	1.41E-02	7.03E-02	1.41E-02	1.41E-02	1.41E-02	1.41E-02	1.41E-02
CHILD	3.46E-02	3.46E-02	1.73E-01	3.46E-02	3.46E-02	3.46E-02	3.46E-02	3.46E-02
INFANT	7.23E-02	7.23E-02	3.38E-01	7.23E-02	7.23E-02	7.23E-02	7.23E-02	7.23E-02

TABLE 16. CARBON-14 DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 2025

SPECIAL LOCATION NO. 4A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 0.00E+00 MILLRADS
ANNUAL GAMMA AIR DOSE = 0.00E+00 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
VEGET								
ADULT	3.06E-03	3.06E-03	1.53E-02	3.06E-03	3.06E-03	3.06E-03	3.06E-03	3.06E-03
TEEN	5.12E-03	5.12E-03	2.56E-02	5.12E-03	5.12E-03	5.12E-03	5.12E-03	5.12E-03
CHILD	1.25E-02	1.25E-02	6.24E-02	1.25E-02	1.25E-02	1.25E-02	1.25E-02	1.25E-02
MEAT								
ADULT	1.22E-03	1.22E-03	6.11E-03	1.22E-03	1.22E-03	1.22E-03	1.22E-03	1.22E-03
TEEN	1.03E-03	1.03E-03	5.16E-03	1.03E-03	1.03E-03	1.03E-03	1.03E-03	1.03E-03
CHILD	1.94E-03	1.94E-03	9.71E-03	1.94E-03	1.94E-03	1.94E-03	1.94E-03	1.94E-03
COW MILK								
ADULT	1.33E-03	1.33E-03	6.67E-03	1.33E-03	1.33E-03	1.33E-03	1.33E-03	1.33E-03
TEEN	2.46E-03	2.46E-03	1.23E-02	2.46E-03	2.46E-03	2.46E-03	2.46E-03	2.46E-03
CHILD	6.05E-03	6.05E-03	3.02E-02	6.05E-03	6.05E-03	6.05E-03	6.05E-03	6.05E-03
INFANT	1.26E-02	1.26E-02	5.92E-02	1.26E-02	1.26E-02	1.26E-02	1.26E-02	1.26E-02
GOATMILK								
ADULT	1.33E-03	1.33E-03	6.67E-03	1.33E-03	1.33E-03	1.33E-03	1.33E-03	1.33E-03
TEEN	2.46E-03	2.46E-03	1.23E-02	2.46E-03	2.46E-03	2.46E-03	2.46E-03	2.46E-03
CHILD	6.05E-03	6.05E-03	3.02E-02	6.05E-03	6.05E-03	6.05E-03	6.05E-03	6.05E-03
INFANT	1.26E-02	1.26E-02	5.92E-02	1.26E-02	1.26E-02	1.26E-02	1.26E-02	1.26E-02

TABLE 16. CARBON-14 DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 2025 (Continued)

SPECIAL LOCATION NO. 5A Nearest Garden
AT 1.90 MILES SE

ANNUAL BETA AIR DOSE = 0.00E+00 MILLRADS
ANNUAL GAMMA AIR DOSE = 0.00E+00 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
VEGET								
ADULT	2.42E-02	2.42E-02	1.21E-01	2.42E-02	2.42E-02	2.42E-02	2.42E-02	2.42E-02
TEEN	4.04E-02	4.04E-02	2.02E-01	4.04E-02	4.04E-02	4.04E-02	4.04E-02	4.04E-02
CHILD	9.84E-02	9.84E-02	4.92E-01	9.84E-02	9.84E-02	9.84E-02	9.84E-02	9.84E-02
MEAT								
ADULT	9.65E-03	9.65E-03	4.83E-02	9.65E-03	9.65E-03	9.65E-03	9.65E-03	9.65E-03
TEEN	8.15E-03	8.15E-03	4.08E-02	8.15E-03	8.15E-03	8.15E-03	8.15E-03	8.15E-03
CHILD	1.53E-02	1.53E-02	7.66E-02	1.53E-02	1.53E-02	1.53E-02	1.53E-02	1.53E-02
COW MILK								
ADULT	1.05E-02	1.05E-02	5.26E-02	1.05E-02	1.05E-02	1.05E-02	1.05E-02	1.05E-02
TEEN	1.94E-02	1.94E-02	9.71E-02	1.94E-02	1.94E-02	1.94E-02	1.94E-02	1.94E-02
CHILD	4.78E-02	4.78E-02	2.39E-01	4.78E-02	4.78E-02	4.78E-02	4.78E-02	4.78E-02
INFANT	9.98E-02	9.98E-02	4.68E-01	9.98E-02	9.98E-02	9.98E-02	9.98E-02	9.98E-02
GOATMILK								
ADULT	1.05E-02	1.05E-02	5.26E-02	1.05E-02	1.05E-02	1.05E-02	1.05E-02	1.05E-02
TEEN	1.94E-02	1.94E-02	9.71E-02	1.94E-02	1.94E-02	1.94E-02	1.94E-02	1.94E-02
CHILD	4.78E-02	4.78E-02	2.39E-01	4.78E-02	4.78E-02	4.78E-02	4.78E-02	4.78E-02
INFANT	9.98E-02	9.98E-02	4.68E-01	9.98E-02	9.98E-02	9.98E-02	9.98E-02	9.98E-02

TABLE 17. CARBON-14 DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 2025

SPECIAL LOCATION NO. 4A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 0.00E+00 MILLRADS
ANNUAL GAMMA AIR DOSE = 0.00E+00 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
VEGET								
ADULT	7.37E-03	7.37E-03	3.68E-02	7.37E-03	7.37E-03	7.37E-03	7.37E-03	7.37E-03
TEEN	1.23E-02	1.23E-02	6.16E-02	1.23E-02	1.23E-02	1.23E-02	1.23E-02	1.23E-02
CHILD	3.00E-02	3.00E-02	1.50E-01	3.00E-02	3.00E-02	3.00E-02	3.00E-02	3.00E-02
MEAT								
ADULT	2.94E-03	2.94E-03	1.47E-02	2.94E-03	2.94E-03	2.94E-03	2.94E-03	2.94E-03
TEEN	2.48E-03	2.48E-03	1.24E-02	2.48E-03	2.48E-03	2.48E-03	2.48E-03	2.48E-03
CHILD	4.67E-03	4.67E-03	2.33E-02	4.67E-03	4.67E-03	4.67E-03	4.67E-03	4.67E-03
COW MILK								
ADULT	3.21E-03	3.21E-03	1.60E-02	3.21E-03	3.21E-03	3.21E-03	3.21E-03	3.21E-03
TEEN	5.92E-03	5.92E-03	2.96E-02	5.92E-03	5.92E-03	5.92E-03	5.92E-03	5.92E-03
CHILD	1.45E-02	1.45E-02	7.27E-02	1.45E-02	1.45E-02	1.45E-02	1.45E-02	1.45E-02
INFANT	3.04E-02	3.04E-02	1.42E-01	3.04E-02	3.04E-02	3.04E-02	3.04E-02	3.04E-02
GOATMILK								
ADULT	3.21E-03	3.21E-03	1.60E-02	3.21E-03	3.21E-03	3.21E-03	3.21E-03	3.21E-03
TEEN	5.92E-03	5.92E-03	2.96E-02	5.92E-03	5.92E-03	5.92E-03	5.92E-03	5.92E-03
CHILD	1.45E-02	1.45E-02	7.27E-02	1.45E-02	1.45E-02	1.45E-02	1.45E-02	1.45E-02
INFANT	3.04E-02	3.04E-02	1.42E-01	3.04E-02	3.04E-02	3.04E-02	3.04E-02	3.04E-02

TABLE 17. CARBON-14 DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 2025 (Continued)

SPECIAL LOCATION NO. 5A Nearest Garden
AT 1.90 MILES SE

ANNUAL BETA AIR DOSE = 0.00E+00 MILLRADS
ANNUAL GAMMA AIR DOSE = 0.00E+00 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
VEGET								
ADULT	4.16E-02	4.16E-02	2.08E-01	4.16E-02	4.16E-02	4.16E-02	4.16E-02	4.16E-02
TEEN	6.96E-02	6.96E-02	3.48E-01	6.96E-02	6.96E-02	6.96E-02	6.96E-02	6.96E-02
CHILD	1.70E-01	1.70E-01	8.48E-01	1.70E-01	1.70E-01	1.70E-01	1.70E-01	1.70E-01
MEAT								
ADULT	1.66E-02	1.66E-02	8.31E-02	1.66E-02	1.66E-02	1.66E-02	1.66E-02	1.66E-02
TEEN	1.40E-02	1.40E-02	7.02E-02	1.40E-02	1.40E-02	1.40E-02	1.40E-02	1.40E-02
CHILD	2.64E-02	2.64E-02	1.32E-01	2.64E-02	2.64E-02	2.64E-02	2.64E-02	2.64E-02
COW MILK								
ADULT	1.81E-02	1.81E-02	9.06E-02	1.81E-02	1.81E-02	1.81E-02	1.81E-02	1.81E-02
TEEN	3.34E-02	3.34E-02	1.67E-01	3.34E-02	3.34E-02	3.34E-02	3.34E-02	3.34E-02
CHILD	8.22E-02	8.22E-02	4.11E-01	8.22E-02	8.22E-02	8.22E-02	8.22E-02	8.22E-02
INFANT	1.72E-01	1.72E-01	8.05E-01	1.72E-01	1.72E-01	1.72E-01	1.72E-01	1.72E-01
GOATMILK								
ADULT	1.81E-02	1.81E-02	9.06E-02	1.81E-02	1.81E-02	1.81E-02	1.81E-02	1.81E-02
TEEN	3.34E-02	3.34E-02	1.67E-01	3.34E-02	3.34E-02	3.34E-02	3.34E-02	3.34E-02
CHILD	8.22E-02	8.22E-02	4.11E-01	8.22E-02	8.22E-02	8.22E-02	8.22E-02	8.22E-02
INFANT	1.72E-01	1.72E-01	8.05E-01	1.72E-01	1.72E-01	1.72E-01	1.72E-01	1.72E-01

TABLE 18. CARBON-14 DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 2025

SPECIAL LOCATION NO. 4A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 0.00E+00 MILLRADS
ANNUAL GAMMA AIR DOSE = 0.00E+00 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
VEGET								
ADULT	6.19E-03	6.19E-03	3.09E-02	6.19E-03	6.19E-03	6.19E-03	6.19E-03	6.19E-03
TEEN	1.03E-02	1.03E-02	5.17E-02	1.03E-02	1.03E-02	1.03E-02	1.03E-02	1.03E-02
CHILD	2.52E-02	2.52E-02	1.26E-01	2.52E-02	2.52E-02	2.52E-02	2.52E-02	2.52E-02
MEAT								
ADULT	2.47E-03	2.47E-03	1.23E-02	2.47E-03	2.47E-03	2.47E-03	2.47E-03	2.47E-03
TEEN	2.09E-03	2.09E-03	1.04E-02	2.09E-03	2.09E-03	2.09E-03	2.09E-03	2.09E-03
CHILD	3.92E-03	3.92E-03	1.96E-02	3.92E-03	3.92E-03	3.92E-03	3.92E-03	3.92E-03
COW MILK								
ADULT	2.69E-03	2.69E-03	1.35E-02	2.69E-03	2.69E-03	2.69E-03	2.69E-03	2.69E-03
TEEN	4.97E-03	4.97E-03	2.48E-02	4.97E-03	4.97E-03	4.97E-03	4.97E-03	4.97E-03
CHILD	1.22E-02	1.22E-02	6.11E-02	1.22E-02	1.22E-02	1.22E-02	1.22E-02	1.22E-02
INFANT	2.55E-02	2.55E-02	1.20E-01	2.55E-02	2.55E-02	2.55E-02	2.55E-02	2.55E-02
GOATMILK								
ADULT	2.69E-03	2.69E-03	1.35E-02	2.69E-03	2.69E-03	2.69E-03	2.69E-03	2.69E-03
TEEN	4.97E-03	4.97E-03	2.48E-02	4.97E-03	4.97E-03	4.97E-03	4.97E-03	4.97E-03
CHILD	1.22E-02	1.22E-02	6.11E-02	1.22E-02	1.22E-02	1.22E-02	1.22E-02	1.22E-02
INFANT	2.55E-02	2.55E-02	1.20E-01	2.55E-02	2.55E-02	2.55E-02	2.55E-02	2.55E-02

TABLE 18. CARBON-14 DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-SEPTEMBER 2025 (Continued)

SPECIAL LOCATION NO. 5A Nearest Garden
AT 1.90 MILES SE

ANNUAL BETA AIR DOSE = 0.00E+00 MILLRADS
ANNUAL GAMMA AIR DOSE = 0.00E+00 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
VEGET								
ADULT	4.40E-02	4.40E-02	2.20E-01	4.40E-02	4.40E-02	4.40E-02	4.40E-02	4.40E-02
TEEN	7.35E-02	7.35E-02	3.68E-01	7.35E-02	7.35E-02	7.35E-02	7.35E-02	7.35E-02
CHILD	1.79E-01	1.79E-01	8.95E-01	1.79E-01	1.79E-01	1.79E-01	1.79E-01	1.79E-01
MEAT								
ADULT	1.75E-02	1.75E-02	8.77E-02	1.75E-02	1.75E-02	1.75E-02	1.75E-02	1.75E-02
TEEN	1.48E-02	1.48E-02	7.41E-02	1.48E-02	1.48E-02	1.48E-02	1.48E-02	1.48E-02
CHILD	2.79E-02	2.79E-02	1.39E-01	2.79E-02	2.79E-02	2.79E-02	2.79E-02	2.79E-02
COW MILK								
ADULT	1.91E-02	1.91E-02	9.57E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02
TEEN	3.53E-02	3.53E-02	1.77E-01	3.53E-02	3.53E-02	3.53E-02	3.53E-02	3.53E-02
CHILD	8.68E-02	8.68E-02	4.34E-01	8.68E-02	8.68E-02	8.68E-02	8.68E-02	8.68E-02
INFANT	1.82E-01	1.82E-01	8.50E-01	1.82E-01	1.82E-01	1.82E-01	1.82E-01	1.82E-01
GOATMILK								
ADULT	1.91E-02	1.91E-02	9.57E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02	1.91E-02
TEEN	3.53E-02	3.53E-02	1.77E-01	3.53E-02	3.53E-02	3.53E-02	3.53E-02	3.53E-02
CHILD	8.68E-02	8.68E-02	4.34E-01	8.68E-02	8.68E-02	8.68E-02	8.68E-02	8.68E-02
INFANT	1.82E-01	1.82E-01	8.50E-01	1.82E-01	1.82E-01	1.82E-01	1.82E-01	1.82E-01

TABLE 19. CARBON-14 DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 2025

SPECIAL LOCATION NO. 4A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 0.00E+00 MILLRADS
ANNUAL GAMMA AIR DOSE = 0.00E+00 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
VEGET								
ADULT	9.77E-03	9.77E-03	4.88E-02	9.77E-03	9.77E-03	9.77E-03	9.77E-03	9.77E-03
TEEN	1.63E-02	1.63E-02	8.17E-02	1.63E-02	1.63E-02	1.63E-02	1.63E-02	1.63E-02
CHILD	3.98E-02	3.98E-02	1.99E-01	3.98E-02	3.98E-02	3.98E-02	3.98E-02	3.98E-02
MEAT								
ADULT	3.90E-03	3.90E-03	1.95E-02	3.90E-03	3.90E-03	3.90E-03	3.90E-03	3.90E-03
TEEN	3.29E-03	3.29E-03	1.65E-02	3.29E-03	3.29E-03	3.29E-03	3.29E-03	3.29E-03
CHILD	6.19E-03	6.19E-03	3.10E-02	6.19E-03	6.19E-03	6.19E-03	6.19E-03	6.19E-03
COW MILK								
ADULT	4.25E-03	4.25E-03	2.13E-02	4.25E-03	4.25E-03	4.25E-03	4.25E-03	4.25E-03
TEEN	7.85E-03	7.85E-03	3.92E-02	7.85E-03	7.85E-03	7.85E-03	7.85E-03	7.85E-03
CHILD	1.93E-02	1.93E-02	9.65E-02	1.93E-02	1.93E-02	1.93E-02	1.93E-02	1.93E-02
INFANT	4.03E-02	4.03E-02	1.89E-01	4.03E-02	4.03E-02	4.03E-02	4.03E-02	4.03E-02
GOATMILK								
ADULT	4.25E-03	4.25E-03	2.13E-02	4.25E-03	4.25E-03	4.25E-03	4.25E-03	4.25E-03
TEEN	7.85E-03	7.85E-03	3.92E-02	7.85E-03	7.85E-03	7.85E-03	7.85E-03	7.85E-03
CHILD	1.93E-02	1.93E-02	9.65E-02	1.93E-02	1.93E-02	1.93E-02	1.93E-02	1.93E-02
INFANT	4.03E-02	4.03E-02	1.89E-01	4.03E-02	4.03E-02	4.03E-02	4.03E-02	4.03E-02

TABLE 19. CARBON-14 DOSES TO MAXIMUM INDIVIDUAL (MREM), OCTOBER-DECEMBER 2025 (Continued)

SPECIAL LOCATION NO. 5A Nearest Garden
AT 1.90 MILES SE

ANNUAL BETA AIR DOSE = 0.00E+00 MILLRADS
ANNUAL GAMMA AIR DOSE = 0.00E+00 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
VEGET								
ADULT	2.61E-02	2.61E-02	1.30E-01	2.61E-02	2.61E-02	2.61E-02	2.61E-02	2.61E-02
TEEN	4.36E-02	4.36E-02	2.18E-01	4.36E-02	4.36E-02	4.36E-02	4.36E-02	4.36E-02
CHILD	1.06E-01	1.06E-01	5.30E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01	1.06E-01
MEAT								
ADULT	1.04E-02	1.04E-02	5.20E-02	1.04E-02	1.04E-02	1.04E-02	1.04E-02	1.04E-02
TEEN	8.78E-03	8.78E-03	4.39E-02	8.78E-03	8.78E-03	8.78E-03	8.78E-03	8.78E-03
CHILD	1.65E-02	1.65E-02	8.26E-02	1.65E-02	1.65E-02	1.65E-02	1.65E-02	1.65E-02
COW MILK								
ADULT	1.13E-02	1.13E-02	5.67E-02	1.13E-02	1.13E-02	1.13E-02	1.13E-02	1.13E-02
TEEN	2.09E-02	2.09E-02	1.05E-01	2.09E-02	2.09E-02	2.09E-02	2.09E-02	2.09E-02
CHILD	5.14E-02	5.14E-02	2.57E-01	5.14E-02	5.14E-02	5.14E-02	5.14E-02	5.14E-02
INFANT	1.08E-01	1.08E-01	5.04E-01	1.08E-01	1.08E-01	1.08E-01	1.08E-01	1.08E-01
GOATMILK								
ADULT	1.13E-02	1.13E-02	5.67E-02	1.13E-02	1.13E-02	1.13E-02	1.13E-02	1.13E-02
TEEN	2.09E-02	2.09E-02	1.05E-01	2.09E-02	2.09E-02	2.09E-02	2.09E-02	2.09E-02
CHILD	5.14E-02	5.14E-02	2.57E-01	5.14E-02	5.14E-02	5.14E-02	5.14E-02	5.14E-02
INFANT	1.08E-01	1.08E-01	5.04E-01	1.08E-01	1.08E-01	1.08E-01	1.08E-01	1.08E-01

TABLE 20. CARBON-14 DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 2025

SPECIAL LOCATION NO. 4A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 0.00E+00 MILLRADS
ANNUAL GAMMA AIR DOSE = 0.00E+00 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
VEGET								
ADULT	1.63E-02	1.63E-02	8.14E-02	1.63E-02	1.63E-02	1.63E-02	1.63E-02	1.63E-02
TEEN	2.72E-02	2.72E-02	1.36E-01	2.72E-02	2.72E-02	2.72E-02	2.72E-02	2.72E-02
CHILD	6.63E-02	6.63E-02	3.31E-01	6.63E-02	6.63E-02	6.63E-02	6.63E-02	6.63E-02
MEAT								
ADULT	6.50E-03	6.50E-03	3.25E-02	6.50E-03	6.50E-03	6.50E-03	6.50E-03	6.50E-03
TEEN	5.49E-03	5.49E-03	2.74E-02	5.49E-03	5.49E-03	5.49E-03	5.49E-03	5.49E-03
CHILD	1.03E-02	1.03E-02	5.16E-02	1.03E-02	1.03E-02	1.03E-02	1.03E-02	1.03E-02
COW MILK								
ADULT	7.09E-03	7.09E-03	3.54E-02	7.09E-03	7.09E-03	7.09E-03	7.09E-03	7.09E-03
TEEN	1.31E-02	1.31E-02	6.54E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02
CHILD	3.22E-02	3.22E-02	1.61E-01	3.22E-02	3.22E-02	3.22E-02	3.22E-02	3.22E-02
INFANT	6.72E-02	6.72E-02	3.15E-01	6.72E-02	6.72E-02	6.72E-02	6.72E-02	6.72E-02
GOATMILK								
ADULT	7.09E-03	7.09E-03	3.54E-02	7.09E-03	7.09E-03	7.09E-03	7.09E-03	7.09E-03
TEEN	1.31E-02	1.31E-02	6.54E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02	1.31E-02
CHILD	3.22E-02	3.22E-02	1.61E-01	3.22E-02	3.22E-02	3.22E-02	3.22E-02	3.22E-02
INFANT	6.72E-02	6.72E-02	3.15E-01	6.72E-02	6.72E-02	6.72E-02	6.72E-02	6.72E-02

TABLE 20. CARBON-14 DOSES TO MAXIMUM INDIVIDUAL (MREM), JULY-DECEMBER 2025 (Continued)

SPECIAL LOCATION NO. 5A Nearest Garden
AT 1.90 MILES SE

ANNUAL BETA AIR DOSE = 0.00E+00 MILLRADS
ANNUAL GAMMA AIR DOSE = 0.00E+00 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
VEGET								
ADULT	7.16E-02	7.16E-02	3.58E-01	7.16E-02	7.16E-02	7.16E-02	7.16E-02	7.16E-02
TEEN	1.20E-01	1.20E-01	5.99E-01	1.20E-01	1.20E-01	1.20E-01	1.20E-01	1.20E-01
CHILD	2.92E-01	2.92E-01	1.46E+00	2.92E-01	2.92E-01	2.92E-01	2.92E-01	2.92E-01
MEAT								
ADULT	2.86E-02	2.86E-02	1.43E-01	2.86E-02	2.86E-02	2.86E-02	2.86E-02	2.86E-02
TEEN	2.42E-02	2.42E-02	1.21E-01	2.42E-02	2.42E-02	2.42E-02	2.42E-02	2.42E-02
CHILD	4.54E-02	4.54E-02	2.27E-01	4.54E-02	4.54E-02	4.54E-02	4.54E-02	4.54E-02
COW MILK								
ADULT	3.12E-02	3.12E-02	1.56E-01	3.12E-02	3.12E-02	3.12E-02	3.12E-02	3.12E-02
TEEN	5.75E-02	5.75E-02	2.88E-01	5.75E-02	5.75E-02	5.75E-02	5.75E-02	5.75E-02
CHILD	1.41E-01	1.41E-01	7.07E-01	1.41E-01	1.41E-01	1.41E-01	1.41E-01	1.41E-01
INFANT	2.96E-01	2.96E-01	1.39E+00	2.96E-01	2.96E-01	2.96E-01	2.96E-01	2.96E-01
GOATMILK								
ADULT	3.12E-02	3.12E-02	1.56E-01	3.12E-02	3.12E-02	3.12E-02	3.12E-02	3.12E-02
TEEN	5.75E-02	5.75E-02	2.88E-01	5.75E-02	5.75E-02	5.75E-02	5.75E-02	5.75E-02
CHILD	1.41E-01	1.41E-01	7.07E-01	1.41E-01	1.41E-01	1.41E-01	1.41E-01	1.41E-01
INFANT	2.96E-01	2.96E-01	1.39E+00	2.96E-01	2.96E-01	2.96E-01	2.96E-01	2.96E-01

TABLE 21. CARBON-14 DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 2025

SPECIAL LOCATION NO. 4A Nearest Cow
AT 3.50 MILES NNW

ANNUAL BETA AIR DOSE = 0.00E+00 MILLRADS
ANNUAL GAMMA AIR DOSE = 0.00E+00 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
VEGET								
ADULT	2.39E-02	2.39E-02	1.19E-01	2.39E-02	2.39E-02	2.39E-02	2.39E-02	2.39E-02
TEEN	4.00E-02	4.00E-02	2.00E-01	4.00E-02	4.00E-02	4.00E-02	4.00E-02	4.00E-02
CHILD	9.73E-02	9.73E-02	4.86E-01	9.73E-02	9.73E-02	9.73E-02	9.73E-02	9.73E-02
MEAT								
ADULT	9.54E-03	9.54E-03	4.77E-02	9.54E-03	9.54E-03	9.54E-03	9.54E-03	9.54E-03
TEEN	8.06E-03	8.06E-03	4.03E-02	8.06E-03	8.06E-03	8.06E-03	8.06E-03	8.06E-03
CHILD	1.51E-02	1.51E-02	7.57E-02	1.51E-02	1.51E-02	1.51E-02	1.51E-02	1.51E-02
COW MILK								
ADULT	1.04E-02	1.04E-02	5.20E-02	1.04E-02	1.04E-02	1.04E-02	1.04E-02	1.04E-02
TEEN	1.92E-02	1.92E-02	9.60E-02	1.92E-02	1.92E-02	1.92E-02	1.92E-02	1.92E-02
CHILD	4.72E-02	4.72E-02	2.36E-01	4.72E-02	4.72E-02	4.72E-02	4.72E-02	4.72E-02
INFANT	9.87E-02	9.87E-02	4.62E-01	9.87E-02	9.87E-02	9.87E-02	9.87E-02	9.87E-02
GOATMILK								
ADULT	1.04E-02	1.04E-02	5.20E-02	1.04E-02	1.04E-02	1.04E-02	1.04E-02	1.04E-02
TEEN	1.92E-02	1.92E-02	9.60E-02	1.92E-02	1.92E-02	1.92E-02	1.92E-02	1.92E-02
CHILD	4.72E-02	4.72E-02	2.36E-01	4.72E-02	4.72E-02	4.72E-02	4.72E-02	4.72E-02
INFANT	9.87E-02	9.87E-02	4.62E-01	9.87E-02	9.87E-02	9.87E-02	9.87E-02	9.87E-02

TABLE 21. CARBON-14 DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-DECEMBER 2025 (Continued)

SPECIAL LOCATION NO. 5A Nearest Garden
AT 1.90 MILES SE

ANNUAL BETA AIR DOSE = 0.00E+00 MILLRADS
ANNUAL GAMMA AIR DOSE = 0.00E+00 MILLRADS

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GROUND	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
VEGET								
ADULT	1.10E-01	1.10E-01	5.49E-01	1.10E-01	1.10E-01	1.10E-01	1.10E-01	1.10E-01
TEEN	1.84E-01	1.84E-01	9.18E-01	1.84E-01	1.84E-01	1.84E-01	1.84E-01	1.84E-01
CHILD	4.47E-01	4.47E-01	2.24E+00	4.47E-01	4.47E-01	4.47E-01	4.47E-01	4.47E-01
MEAT								
ADULT	4.38E-02	4.38E-02	2.19E-01	4.38E-02	4.38E-02	4.38E-02	4.38E-02	4.38E-02
TEEN	3.70E-02	3.70E-02	1.85E-01	3.70E-02	3.70E-02	3.70E-02	3.70E-02	3.70E-02
CHILD	6.96E-02	6.96E-02	3.48E-01	6.96E-02	6.96E-02	6.96E-02	6.96E-02	6.96E-02
COW MILK								
ADULT	4.78E-02	4.78E-02	2.39E-01	4.78E-02	4.78E-02	4.78E-02	4.78E-02	4.78E-02
TEEN	8.82E-02	8.82E-02	4.41E-01	8.82E-02	8.82E-02	8.82E-02	8.82E-02	8.82E-02
CHILD	2.17E-01	2.17E-01	1.08E+00	2.17E-01	2.17E-01	2.17E-01	2.17E-01	2.17E-01
INFANT	4.53E-01	4.53E-01	2.12E+00	4.53E-01	4.53E-01	4.53E-01	4.53E-01	4.53E-01
GOATMILK								
ADULT	4.78E-02	4.78E-02	2.39E-01	4.78E-02	4.78E-02	4.78E-02	4.78E-02	4.78E-02
TEEN	8.82E-02	8.82E-02	4.41E-01	8.82E-02	8.82E-02	8.82E-02	8.82E-02	8.82E-02
CHILD	2.17E-01	2.17E-01	1.08E+00	2.17E-01	2.17E-01	2.17E-01	2.17E-01	2.17E-01
INFANT	4.53E-01	4.53E-01	2.12E+00	4.53E-01	4.53E-01	4.53E-01	4.53E-01	4.53E-01

DOSE CALCULATION MODELS

To evaluate the radiological consequences of the routine release of liquid and gaseous effluents from the Cooper Nuclear Station, the latest versions of two computer codes were used: LADTAP II for liquid doses and GASPAR for gaseous doses included as part of NRCDose 2.3.20 (ORNL 2015). Both of these computer codes implement the dose calculational methodologies of U.S. NRC Regulatory Guide 1.109, Revision 1.

Source terms for each quarter are combined with station-specific demographic data and either hydrological dilution factors, for liquid dose calculations, or atmospheric diffusion estimates, for gaseous dose calculations.

For liquid dose calculations, the hydrological dilution factors used for input to LADTAP II, as well as other input parameters, are listed in Table 22. Other inputs not specifically listed in this table are taken from Regulatory Guide 1.109, Revision 1. Semiannual doses are obtained by summing the contributions from the appropriate quarters.

For gaseous dose calculations, atmospheric diffusion estimates are obtained from the reduction and processing of onsite meteorological data, as described in Appendix B. Source terms for the semiannual period are obtained by summing source terms for the appropriate quarters. Additional input to GASPAR includes the following station-supplied data:

- 0 to 50 mile population distribution
- 0 to 50 mile meat, milk, and vegetable distributions
- Absolute humidity at Cooper Nuclear Station (14.61 g/m^3)
- The fraction of the year that the vegetables are grown (0.5)
- The fraction of the daily feed intake derived from pasture for milk and meat animals (0.5)

Other values used for input to GASPAR are default values from Regulatory Guide 1.109, Rev. 1.

TABLE 22. Values of Parameters Used to Make Dose Estimates Resulting From Liquid Discharges at Cooper Nuclear Station January-December 2025

Parameter	Values Assigned		
		Individual	Population
Cooling flow rate (cfs) * (Average daily value)	Q1	NR	NR
	Q2	NR	NR
	Q3	NR	NR
	Q4	NR	NR
Dilution factor*	Q1	NR	NR
	Q2	NR	NR
	Q3	NR	NR
	Q4	NR	NR
Holding time:			
Fish		24 hr ***	168 hr ***
Drinking water		12 hr ***	22.4 hr **
Shoreline exposure		0 hr ***	22.4 hr **
Swimming		0 hr ***	22.4 hr **
Boating		0 hr ***	22.4 hr **

* Q1, Q2, Q3, and Q4 represent first, second, third and fourth quarter station data for 2025, respectively.

** Based on an average Missouri River water flow of 5.5 ft/sec, 84 miles down the river.

*** Values from Regulatory Guide 1.109, Revision 1.

NR- No release

REFERENCES

Electric Power Research Institute, Technical Report 1021106, "Estimation of Carbon-14 in Nuclear Power Plant Gaseous Effluents", December 2010.

Oak Ridge National Laboratory, NRCDose 2.3.20, "Code System for Evaluating Routine Radioactive Effluents from Nuclear Power Plants with Windows Interface", February 2015.

U.S. Nuclear Regulatory Commission, 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, 1974.

U.S. Nuclear Regulatory Commission, Regulatory Guide 1.23 (Safety Guide 23), "Onsite Meteorological Programs", Revision 0, 1972.

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U.S. Nuclear Regulatory Commission, NUREG/CR-1276, "User's Manual for LADTAP II: A Computer Code for Calculating Radiation Exposure to Man From Routine Release of Nuclear Reactor Liquid Effluents", 1980.

U.S. Nuclear Regulatory Commission, 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 50, Appendix I", Revision 1, 1977.

APPENDIX D
ANNUAL RADIOLOGICAL GROUNDWATER PROTECTION PROGRAM (ARGPP) REPORT

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

Radiological Groundwater Protection Program

2025 Annual Report

January 1, 2025 to December 31, 2025

Prepared by
Teledyne Brown Engineering
2508 Quality Lane
Knoxville, TN 37931-3133

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Attachments

Attachment 1: Location Designation of the Annual Radiological Groundwater Protection Program Report (ARGPPR)

Tables

Table A-1: Radiological Groundwater Protection Program - Sampling Locations, Nebraska Public Power District, Cooper Nuclear Station, 2025

Map

Map A-1: Routine Well Water Sample Locations for the Radiological Groundwater Protection Program, Nebraska Public Power District, Cooper Nuclear Station, 2025

Attachment 2: Data Tables of the Annual Radiological Groundwater Protection Program Report (ARGPPR)

Table B-1: Exposure Pathway – Water - Ground, 2025

SECTION I. SUMMARY

I. SUMMARY

In 2008, the Cooper Nuclear Station (CNS) of the Nebraska Public Power District (NPPD) instituted a comprehensive program to evaluate the impact of station operations on groundwater in the vicinity of CNS. This report covers groundwater samples, collected outside of the Licensee required Off-Site Dose Assessment Manual (ODAM) requirements on station property in 2025. During that time period, analyses were performed on 58 samples from 22 locations.

In assessing all the data gathered for this report, it was concluded that the operation of CNS had no adverse radiological impact on the environment, and there are no known active releases into the groundwater or surface water at Nebraska Public Power District.

Tritium was not detected in any of the groundwater samples at concentrations greater than the United States Environmental Protection Agency (USEPA) drinking water standard (and the Nuclear Regulatory Commission [NRC] reporting limit) of 20,000 pCi/L. The tritium concentrations ranged from 623 ± 404 pCi/L to 961 ± 471 pCi/L.

Gamma-emitting radionuclides associated with licensed plant operations were not detected at concentrations greater than their respective Lower Limits of Detection (LLDs) as specified in NUREG-1302 in any of the groundwater samples. In the case of tritium, CNS specified that the independent laboratory achieve a lower limit of detection 10 times lower than that required by the United States Environmental Protection Agency (USEPA) regulation.

SECTION II. CHARACTERISTICS OF TRITIUM (H-3)

II. CHARACTERISTICS OF TRITIUM (H-3)

Tritium (chemical symbol H-3) is a radioactive isotope of hydrogen. The most common form of tritium is tritium oxide, which is also called "tritiated water." The chemical properties of tritium are essentially those of ordinary hydrogen.

Tritiated water functions the same as ordinary water in both the environment and the body. Tritium can be taken into the body by drinking water, breathing air, eating food, or absorption through skin. Once tritium enters the body, it disperses quickly and is uniformly distributed throughout the body. Tritium is excreted primarily through urine with a clearance rate characterized by an effective biological half-life of about 14 days. Within one month or so after ingestion, essentially all tritium is cleared. Organically bound tritium (tritium that is incorporated in organic compounds) can remain in the body for a longer period.

Tritium is produced naturally in the upper atmosphere when cosmic rays strike air molecules. Tritium is also produced during nuclear weapons explosions, as a by-product in reactors producing electricity, and in special production reactors, where the isotopes lithium-6 and/or boron-10 are activated to produce tritium. Like normal water, tritiated water is colorless and odorless. Tritiated water behaves chemically and physically like non-tritiated water in the subsurface, and therefore tritiated water will travel at the same velocity as the average groundwater velocity.

Tritium has a half-life of approximately 12.3 years. It decays spontaneously to helium-3 (3He). This radioactive decay releases a beta particle (low-energy electron). The radioactive decay of tritium is the source of the health risk from exposure to tritium. Tritium is one of the least dangerous radionuclides because it emits very weak beta radiation and leaves the body relatively quickly. Since tritium is almost always found as water, it goes directly into soft tissues and organs. The associated dose to these tissues is generally uniform and is dependent on the water content of the specific tissue.

SECTION III. INTRODUCTION

III. INTRODUCTION

Cooper Nuclear Station is located in Nemaha County in the southeast corner of Nebraska on the Missouri River. A portion of the site extends into Missouri. The reactor is an 830-megawatt (net electrical) boiling water reactor. Initial criticality was attained on February 21, 1974.

This report covers those analyses performed by Teledyne Brown Engineering (TBE) on samples collected in 2025.

III. INTRODUCTION (cont)

A. Objectives of the Radiological Groundwater Protection Program (RGPP)

The long-term objectives of the RGPP are as follows:

1. Identify suitable locations to monitor and evaluate potential impacts from station operations before significant radiological impact to the environment and potential drinking water sources.

2. Understand the local hydrogeologic regime in the vicinity of the station and maintain up-to-date knowledge of flow patterns on the surface and shallow subsurface.

3. Perform routine water sampling and radiological analysis of water from selected locations.

4. Report new leaks, spills, or other detections with potential radiological significance to stakeholders in a timely manner.

5. Regularly assess analytical results to identify adverse trends.

6. Take necessary corrective actions to protect groundwater resources.

B. Implementation of the Objectives

The objectives identified have been implemented at CNS as discussed below:

1. Cooper Nuclear Station will continue to perform routine sampling and radiological analysis of water from selected locations.

2. Cooper Nuclear Station has implemented procedures to identify and report new leaks, spills, or other detections with potential radiological significance in a timely manner.

3. Cooper Nuclear Station staff assesses analytical results on an ongoing basis to identify adverse trends.

III. INTRODUCTION (cont)

C. Program Description

1. Sample Collection

Sample locations can be found in Attachment 1, Table A-1 and Map A-1.

Groundwater

Samples of water are collected, managed, transported, and analyzed in accordance with approved procedures following regulatory methods. Sample locations, sample collection frequencies and analytical frequencies are controlled in accordance with approved station procedures. Contractor and/or station personnel are trained in the collection, preservation management, and shipment of samples, as well as in documentation of sampling events. Analytical laboratories are subject to internal quality assurance programs, inter-laboratory cross-check programs, as well as nuclear industry audits. Station personnel review and evaluate all analytical data deliverables after initial review by the contractor.

Analytical data results are reviewed by station personnel for adverse trends or changes to hydrogeologic conditions.

SECTION IV. PROGRAM DESCRIPTION

III. Program Description

A. Sample Analysis

This section describes the general analytical methodologies used by TBE to analyze the environmental samples for radioactivity for the CNS RGPP in 2025.

In order to achieve the stated objectives, the current program analyzes each sample for tritium. If a sample indicates tritium above TBE's lower limit of detection (LLD), then the sample is analyzed for gamma emitters (Be-7, K-40, Mn-54, Co-58, Fe-59, Co-60, Zn-65, Zr-95, Ru-103, Ru-106, I-131, Cs-134, Cs-137, Ba-140, La-140, Ce-141, Ce-144, Ra-226 and Th-228). If the sample indicates gamma emitters (other than those that are naturally occurring) above TBE's LLD, then the sample is analyzed for Hard to Detects (HTDs – Gross Alpha, Fe-55, Ni-63, Sr-89, Sr-90).

Note: Statistically positive results include their respective uncertainties. Results reported below TBE's LLD for a given radio nuclide are preceded with "<" (= "Less Than").

B. Data Interpretation

The radiological data collected prior to CNS becoming operational were used as a baseline with which these operational data were compared. For the purpose of this report, CNS was considered operational at initial criticality. Several factors were important in the interpretation of the data:

1. Lower Limit of Detection and Minimum Detectable Concentration

   The lower limit of detection (LLD) is specified by federal regulation as a minimum sensitivity value that must be achieved routinely by the analytical parameter.

2. Laboratory Measurements Uncertainty

   The estimated uncertainty in measurement of tritium in environmental samples is frequently on the order of 50% of the measurement value.

   Statistically, the exact value of a measurement is expressed as a range with a stated level of confidence. Analytical uncertainties are reported at the 95% confidence level in this report for reporting consistency with the REMP. The uncertainty comes from calibration standards, sample volume or weight measurements, sampling uncertainty and other factors. CNS reports the uncertainty of a measurement created by statistical process (counting error). Each result has two values calculated. CNS reports the result with plus or minus (±) the estimated sample standard deviation.

SECTION V. RESULTS AND DISCUSSION

D. Results and Discussion

A. Groundwater Results

Tritium

Samples from 22 locations were analyzed for tritium activity (Table B-1, Attachment 2). Tritium was detected at three locations. Tritium values ranged from 623 to 961 pCi/L. All values were below the United States Environmental Protection Agency (USEPA) drinking water standard (and the Nuclear Regulatory Commission [NRC] reporting limit) of 20,000 pCi/liter.

Gamma Emitters

No gamma emitting nuclides from licensed plant operations were detected. Naturally-occurring Potassium-40 was identified in one sample in 2025. (Table B-1, Attachment 2).

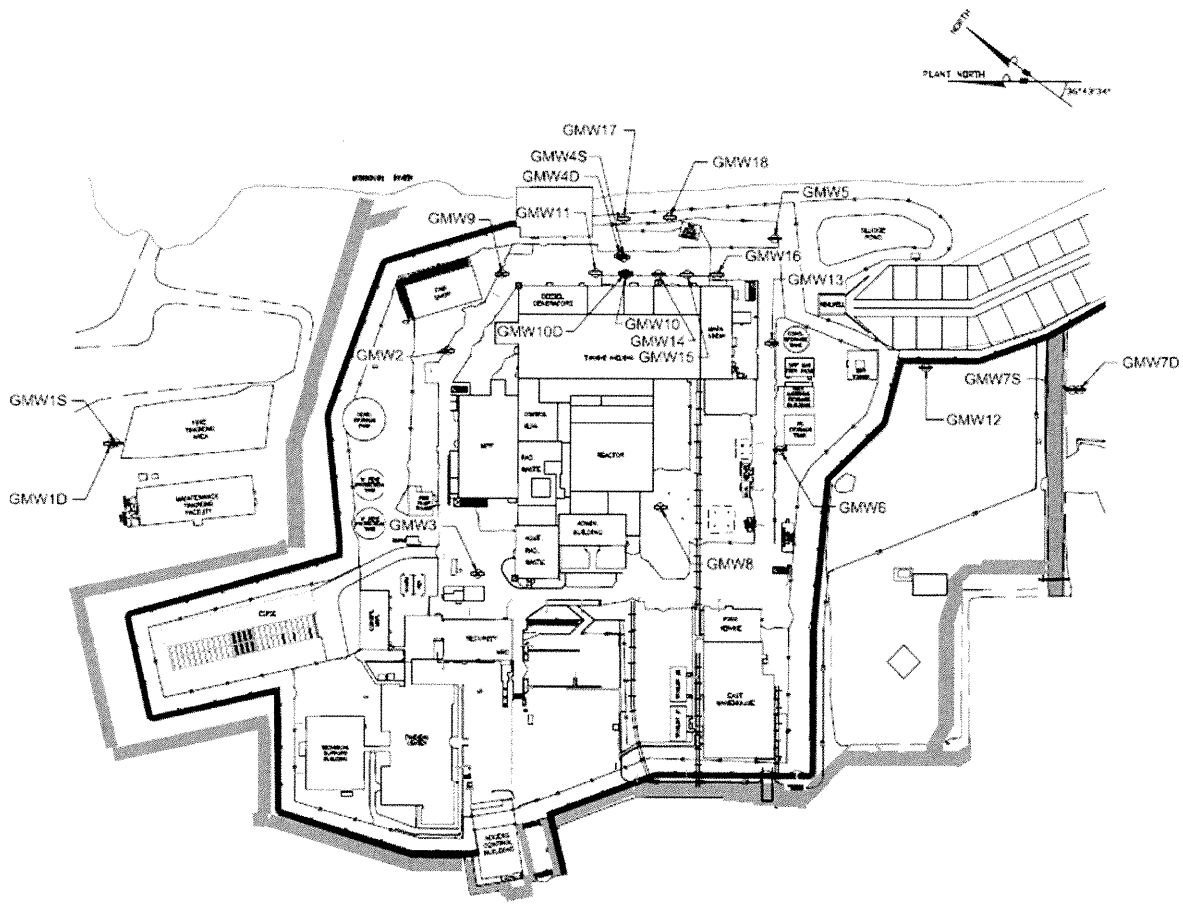
ATTACHMENT 1

LOCATION DESIGNATION OF THE ANNUAL RADIOLOGICAL GROUNDWATER PROTECTION PROGRAM REPORT (ARGPPR)

TABLE A-1: 2025- Radiological Groundwater Protection Program – Sampling Locations, Nebraska Public Power District, Cooper Nuclear Station

Site	Type
Ground Monitoring Well-1D	Ground Water
Ground Monitoring Well-1S	Ground Water
Ground Monitoring Well-2	Ground Water
Ground Monitoring Well-3	Ground Water
Ground Monitoring Well-4D	Ground Water
Ground Monitoring Well-4S	Ground Water
Ground Monitoring Well-5	Ground Water
Ground Monitoring Well-6	Ground Water
Ground Monitoring Well-7D	Ground Water
Ground Monitoring Well-7S	Ground Water
Ground Monitoring Well-8	Ground Water
Ground Monitoring Well-9	Ground Water
Ground Monitoring Well-10	Ground Water
Ground Monitoring Well-10D	Ground Water
Ground Monitoring Well-11	Ground Water
Ground Monitoring Well-12	Ground Water
Ground Monitoring Well-13	Ground Water
Ground Monitoring Well-14	Ground Water
Ground Monitoring Well-15	Ground Water
Ground Monitoring Well-16	Ground Water
Ground Monitoring Well-17	Ground Water
Ground Monitoring Well-18	Ground Water

MAP A-1



Routine Well Water Sample Locations for the Radiological Groundwater Protection Program, Nebraska Public Power District, Cooper Nuclear Station, 2025

ATTACHMENT 2

DATA TABLES OF THE ANNUAL RADIOLOGICAL GROUNDWATER PROTECTION PROGRAM REPORT (ARGPPR)

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 1D

DATE COLLECTED	3/2/2025	9/4/2025
H-3	< 5.E+02	< 6.E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)
BE-7		
K-40		
MN-54		
CO-58		
FE-59		
CO-60		
ZN-65		
ZR-95		
RU-103		
RU-106		
I-131		
CS-134		
CS-137		
BA-140		
LA-140		
CE-141		
CE-144		
RA-226		
TH-228		

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 1S

DATE COLLECTED	3/2/2025	9/4/2025
H-3	< 6.E+02	< 6.E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)
BE-7		
K-40		
MN-54		
CO-58		
FE-59		
CO-60		
ZN-65		
ZR-95		
RU-103		
RU-106		
I-131		
CS-134		
CS-137		
BA-140		
LA-140		
CE-141		
CE-144		
RA-226		
TH-228		

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 2

DATE COLLECTED	3/1/2025	9/3/2025
H-3	< 5.E+02	< 6.E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)
BE-7		
K-40		
MN-54		
CO-58		
FE-59		
CO-60		
ZN-65		
ZR-95		
RU-103		
RU-106		
I-131		
CS-134		
CS-137		
BA-140		
LA-140		
CE-141		
CE-144		
RA-226		
TH-228		

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 3

DATE COLLECTED	3/1/2025	9/3/2025
H-3	< 5.E+02	< 6.E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)
BE-7		
K-40		
MN-54		
CO-58		
FE-59		
CO-60		
ZN-65		
ZR-95		
RU-103		
RU-106		
I-131		
CS-134		
CS-137		
BA-140		
LA-140		
CE-141		
CE-144		
RA-226		
TH-228		

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 4D

DATE COLLECTED	3/1/2025	6/5/2025	9/3/2025	11/24/2025
H-3	< 5.E+02	< 6.E+02	< 6.E+02	< 6.E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)	(a)	(a)
BE-7				
K-40				
MN-54				
CO-58				
FE-59				
CO-60				
ZN-65				
ZR-95				
RU-103				
RU-106				
I-131				
CS-134				
CS-137				
BA-140				
LA-140				
CE-141				
CE-144				
RA-226				
TH-228				

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 4S

DATE COLLECTED	3/1/2025	6/5/2025	9/3/2025	11/24/2025
H-3	6.23E+02 ± 4.04E+02	< 5.E+02	< 6.E+02	< 5.E+02
GAMMA SPECTRUM ANALYSIS:		(a)	(a)	(a)
BE-7	< 2.E+01			
K-40	4.24E+01 ± 2.38E+01 (b)			
MN-54	< 2.E+00			
CO-58	< 2.E+00			
FE-59	< 4.E+00			
CO-60	< 2.E+00			
ZN-65	< 3.E+00			
ZR-95	< 3.E+00			
RU-103	< 2.E+00			
RU-106	< 1.E+01			
I-131	< 8.E+00			
CS-134	< 2.E+00			
CS-137	< 2.E+00			
BA-140	< 1.E+01			
LA-140	< 5.E+00			
CE-141	< 4.E+00			
CE-144	< 1.E+01			
RA-226	< 4.E+01			
TH-228	< 3.E+00			

(a) Gamma analysis not performed. Refer to section IV.A for additional information.
(b) Potassium-40 is a naturally-occurring radioactive isotope.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 5

DATE COLLECTED	3/1/2025	9/4/2025
H-3	< 5.E+02	< 5.E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)
BE-7		
K-40		
MN-54		
CO-58		
FE-59		
CO-60		
ZN-65		
ZR-95		
RU-103		
RU-106		
I-131		
CS-134		
CS-137		
BA-140		
LA-140		
CE-141		
CE-144		
RA-226		
TH-228		

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 6

DATE COLLECTED	3/1/2025	6/9/2025	9/4/2025	11/25/2025
H-3	< 5.E+02	< 6.E+02	< 5.E+02	< 5.E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)	(a)	(a)
BE-7				
K-40				
MN-54				
CO-58				
FE-59				
CO-60				
ZN-65				
ZR-95				
RU-103				
RU-106				
I-131				
CS-134				
CS-137				
BA-140				
LA-140				
CE-141				
CE-144				
RA-226				
TH-228				

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 7D

DATE COLLECTED	3/2/2025	9/4/2025
H-3	< 5.E+02	< 6.E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)
BE-7		
K-40		
MN-54		
CO-58		
FE-59		
CO-60		
ZN-65		
ZR-95		
RU-103		
RU-106		
I-131		
CS-134		
CS-137		
BA-140		
LA-140		
CE-141		
CE-144		
RA-226		
TH-228		

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 7S

DATE COLLECTED	3/2/2025	9/4/2025
H-3	< 5.E+02	< 6.E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)
BE-7		
K-40		
MN-54		
CO-58		
FE-59		
CO-60		
ZN-65		
ZR-95		
RU-103		
RU-106		
I-131		
CS-134		
CS-137		
BA-140		
LA-140		
CE-141		
CE-144		
RA-226		
TH-228		

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 8

DATE COLLECTED	3/1/2025	9/4/2025
H-3	< 5.E+02	< 6.E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)
BE-7		
K-40		
MN-54		
CO-58		
FE-59		
CO-60		
ZN-65		
ZR-95		
RU-103		
RU-106		
I-131		
CS-134		
CS-137		
BA-140		
LA-140		
CE-141		
CE-144		
RA-226		
TH-228		

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 9

DATE COLLECTED	3/1/2025	9/3/2025
H-3	< 5.E+02	< 6.E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)
BE-7		
K-40		
MN-54		
CO-58		
FE-59		
CO-60		
ZN-65		
ZR-95		
RU-103		
RU-106		
I-131		
CS-134		
CS-137		
BA-140		
LA-140		
CE-141		
CE-144		
RA-226		
TH-228		

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 10

DATE COLLECTED	3/1/2025	5/29/2025	6/5/2025	9/3/2025
H-3	N/A[b]	N/A[b]	N/A[b]	< 6.E+02
GAMMA SPECTRUM ANALYSIS:	N/A[b]	N/A[b]	N/A[b]	(a)
BE-7				
K-40				
MN-54				
CO-58				
FE-59				
CO-60				
ZN-65				
ZR-95				
RU-103				
RU-106				
I-131				
CS-134				
CS-137				
BA-140				
LA-140				
CE-141				
CE-144				
RA-226				
TH-228				

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

b: Attempted to obtain samples on these dates. Sample was not obtainable because there was no water in GMW-10 (a 25' deep well). This is a result of low river level and low water table. Because sample could not be obtained from GMW-10, a sample was obtained from GMW-10D which is just next to GMW-10 but is 10' deeper. Results for GMW-10D are on page 2-16.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 10

DATE COLLECTED	11/24/2025
H-3	N/A[a]
GAMMA SPECTRUM ANALYSIS:	N/A[a]
BE-7	
K-40	
MN-54	
CO-58	
FE-59	
CO-60	
ZN-65	
ZR-95	
RU-103	
RU-106	
I-131	
CS-134	
CS-137	
BA-140	
LA-140	
CE-141	
CE-144	
RA-226	
TH-228	

a: Attempted to obtain sample on this date. Sample was not obtainable because there was no water in GMW-10 (a 25' deep well). This is a result of low river level and low water table. Because sample could not be obtained from GMW-10, a sample was obtained from GMW-10D which is just next to GMW-10 but is 10' deeper. Results for GMW-10D are on page 2-17.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 10D

DATE COLLECTED	3/1/2025	5/29/2025	6/5/2025	7/24/2025
H-3	8.95E+02 ± 4.32E+02	< 6.E+02	6.68E+02 ± 4.13E+02	< 5.E+02
GAMMA SPECTRUM ANALYSIS:		(a)		(a)
BE-7	< 2.E+01		< 2.E+01	
K-40	< 2.E+01		< 1.E+01	
MN-54	< 2.E+00		< 2.E+00	
CO-58	< 2.E+00		< 2.E+00	
FE-59	< 4.E+00		< 6.E+00	
CO-60	< 2.E+00		< 2.E+00	
ZN-65	< 3.E+00		< 3.E+00	
ZR-95	< 3.E+00		< 4.E+00	
RU-103	< 2.E+00		< 3.E+00	
RU-106	< 2.E+01		< 1.E+01	
I-131	< 7.E+00		< 5.E+01	
CS-134	< 2.E+00		< 2.E+00	
CS-137	< 2.E+00		< 2.E+00	
BA-140	< 1.E+01		< 5.E+01	
LA-140	< 5.E+00		< 2.E+01	
CE-141	< 4.E+00		< 6.E+00	
CE-144	< 1.E+01		< 1.E+01	
RA-226	< 4.E+01		< 3.E+01	
TH-228	< 3.E+00		< 3.E+00	

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 10D

DATE COLLECTED	8/28/2025	9/3/2025	11/24/2025
H-3	< 6.E+02	< 6.E+02	< 5.E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)	(a)
BE-7			
K-40			
MN-54			
CO-58			
FE-59			
CO-60			
ZN-65			
ZR-95			
RU-103			
RU-106			
I-131			
CS-134			
CS-137			
BA-140			
LA-140			
CE-141			
CE-144			
RA-226			
TH-228			

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 11

DATE COLLECTED	3/1/2025	6/5/2025	9/3/2025	11/25/2025
H-3	< 5.E+02	< 6.E+02	< 5.E+02	< 5.E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)	(a)	(a)
BE-7				
K-40				
MN-54				
CO-58				
FE-59				
CO-60				
ZN-65				
ZR-95				
RU-103				
RU-106				
I-131				
CS-134				
CS-137				
BA-140				
LA-140				
CE-141				
CE-144				
RA-226				
TH-228				

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 12

DATE COLLECTED	3/2/2025	9/4/2025
H-3	< 5.E+02	< 6.E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)
BE-7		
K-40		
MN-54		
CO-58		
FE-59		
CO-60		
ZN-65		
ZR-95		
RU-103		
RU-106		
I-131		
CS-134		
CS-137		
BA-140		
LA-140		
CE-141		
CE-144		
RA-226		
TH-228		

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 13

DATE COLLECTED	3/1/2025	6/9/2025	9/4/2025	11/25/2025
H-3	< 5.E+02	< 6.E+02	9.61E+02 ± 4.71E+02	6.94E+02 ± 4.16E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)		
BE-7			< 2.E+01	< 2.E+01
K-40			< 2.E+01	< 4.E+01
MN-54			< 2.E+00	< 2.E+00
CO-58			< 2.E+00	< 2.E+00
FE-59			< 5.E+00	< 5.E+00
CO-60			< 2.E+00	< 2.E+00
ZN-65			< 4.E+00	< 4.E+00
ZR-95			< 4.E+00	< 4.E+00
RU-103			< 2.E+00	< 2.E+00
RU-106			< 2.E+01	< 2.E+01
I-131			< 1.E+01	< 2.E+01
CS-134			< 2.E+00	< 2.E+00
CS-137			< 2.E+00	< 2.E+00
BA-140			< 2.E+01	< 2.E+01
LA-140			< 5.E+00	< 8.E+00
CE-141			< 4.E+00	< 4.E+00
CE-144			< 1.E+01	< 1.E+01
RA-226			< 4.E+01	< 4.E+01
TH-228			< 3.E+00	< 3.E+00

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 14

DATE COLLECTED	6/9/2025	11/25/2025
H-3	< 6.E+02	< 5.E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)
BE-7		
K-40		
MN-54		
CO-58		
FE-59		
CO-60		
ZN-65		
ZR-95		
RU-103		
RU-106		
I-131		
CS-134		
CS-137		
BA-140		
LA-140		
CE-141		
CE-144		
RA-226		
TH-228		

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 15

DATE COLLECTED	6/9/2025	11/25/2025
H-3	< 6.E+02	< 5.E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)
BE-7		
K-40		
MN-54		
CO-58		
FE-59		
CO-60		
ZN-65		
ZR-95		
RU-103		
RU-106		
I-131		
CS-134		
CS-137		
BA-140		
LA-140		
CE-141		
CE-144		
RA-226		
TH-228		

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 16

DATE COLLECTED	6/9/2025	11/25/2025
H-3	< 6.E+02	< 5.E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)
BE-7		
K-40		
MN-54		
CO-58		
FE-59		
CO-60		
ZN-65		
ZR-95		
RU-103		
RU-106		
I-131		
CS-134		
CS-137		
BA-140		
LA-140		
CE-141		
CE-144		
RA-226		
TH-228		

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 17

DATE COLLECTED	6/9/2025	11/25/2025
H-3	< 6.E+02	< 5.E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)
BE-7		
K-40		
MN-54		
CO-58		
FE-59		
CO-60		
ZN-65		
ZR-95		
RU-103		
RU-106		
I-131		
CS-134		
CS-137		
BA-140		
LA-140		
CE-141		
CE-144		
RA-226		
TH-228		

(a) Gamma analysis not performed. Refer to section IV.A for additional information.

B-1

COOPER NUCLEAR STATION
WATER - GROUND (PCI/LITER)

STATION NUMBER 18

DATE COLLECTED	6/9/2025	11/25/2025
H-3	< 6.E+02	< 5.E+02
GAMMA SPECTRUM ANALYSIS:	(a)	(a)
BE-7		
K-40		
MN-54		
CO-58		
FE-59		
CO-60		
ZN-65		
ZR-95		
RU-103		
RU-106		
I-131		
CS-134		
CS-137		
BA-140		
LA-140		
CE-141		
CE-144		
RA-226		
TH-228		

(a) Gamma analysis not performed. Refer to section IV.A for additional information.