NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION
SEMI-ANNUAL OPERATING REPORT
RADIOACTIVE EFFLUENTS
DOCKET NUMBER 50-298

January 1, 1995 through June 30, 1995

G34311.PM5

Nebraska Public Power District

COOPER NUCLEAR STATION
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NLS950179
August 30, 1995

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

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

In accordance with Specification 6.5.1.F of the Cooper Nuclear Station Technical Specifications, the Nebraska Public Power District submits the Cooper Nuclear Station Semi-Annual Radioactive Materials Release Report for the period January 1, 1995, through June 30, 1995.

In accordance with 10 CFR 50.4(b)(1), we are enclosing one signed original of the report for your use, one copy to the Regional Office, and one copy to the NRC Resident Inspector.

Should you have any questions or comments regarding this report, please contact my office.

P D Thomas for

J. H. Mueller
Site Manager

JHM/hch-g:gls(SAORI)
Enclosures

cc: Regional Administrator
USNRC Region IV
Arlington, TX

NRC Resident Inspector
Cooper Nuclear Station

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Rockville, MD

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NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

SEMIANNUAL OPERATING REPORT

RADIOACTIVE EFFLUENTS

January 1, 1995 through June 30, 1995

USNRC Docket 50-298

Contents

INTRODUCTION

This report summarizes meteorological data and doses from radioactive effluents for the Cooper Nuclear Station for the period January through June 1995. The data presented meet the reporting requirements of Regulatory Guide 1.21 of the U.S. Nuclear Regulatory Commission (Revision 1, 1974).

The report is organized into three 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 A

SOURCE TERMS

EFFLUENT AND WASTE DISPOSAL REPORTS

EFFLUENT AND WASTE DISPOSAL
January 1, 1995 to June 30, 1995

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 Semiannual Radioactive Material Release Report - Radioactive Effluents.
Facility Cooper Nuclear Station License DPR-46

A. Regulatory Limits (NOTE 1)

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. The concentration of radioactive material in water offsite due to radioactive liquid effluents shall not exceed the concentration specified in 10 CFR Part 20.106 for radionuclides other than dissolved or entrained noble gases. For dissolved or entrained noble gases, the concentration shall not exceed 2×10^{-4} µCi/ml total activity.

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.

NOTE 1: Radioactive effluent concentration limits are based on existing Technical Specification limits as outlined in the Nuclear Regulatory Commission letter dated June 30, 1993, T. E. Murley (NRC) to T. E. Tipton (NUMARC), Technical Specification proposed change No. 117, Revised 10CFR20 Implementation, is currently under NRC review.

B. Maximum Permissible Concentrations

1. Water - Covered in Section A.2.

2. Air - Covered in Section A.1.

C. Average Energy

The average energy ($\bar{E}$) 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.

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 gas flow proportional counting.

e. Fe-55:

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

E. Batch Releases

The following information relates to batch releases of radioactive materials in liquid and gaseous effluents:

a. Liquid

1. Number of batch releases: 121

2. Total time period for batch releases: 3.11 E+04 minutes

3. Maximum time period for batch release: 8.28 E+02 minutes

4. Average time period for batch releases: 2.57 E+02 minutes

5. Minimum time period for a batch release: 1.70 E+01 minutes

6. Average stream flow during periods of release of effluent into a flowing stream: 6.70 E+07 liters/minute

b. Gaseous

1. Number of batch releases: None

2. Total time period for batch releases: N/A

3. Maximum time period for a batch release: N/A

4. Average time period for batch releases: N/A

5. Minimum time period for a batch release: N/A

F. Abnormal Release

a. Liquid

1. Number of releases: 0

2. Total activity released: None

b. Gaseous

1. Number of releases: 0

2. Total activity released: None

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

		Unit	1st Quarter	2nd Quarter	EST. TOTAL ERROR %
A.	Fission and activation gases				
1.	Total release	Ci	1.09 E+01	0.00 E+00	2.0 E+01
2.	Average release rate for period	µCi/sec	1.40 E+00	0.00 E+00	
B.	Iodines				
1.	Total iodine 131	Ci	5.14 E-06	1.62E-05	3.0 E+01
2.	Average release rate for period	µCi/sec	6.61 E-07	2.06 E-06	
C.	Particulates				
1.	Particulates with half-lives >8 days	Ci	3.32 E-04	0.00 E+00	5.0 E+01
2.	Average release rate for period	µCi/sec	4.27 E-05	0.00 E+00	
3.	Gross alpha radioactivity	Ci	0.00 E+00	0.00 E+00	
D.	Tritium				
1.	Total release	Ci	0.00 E+00	0.00 E+00	3.0 E+01
2.	Average release rate for period	µCi/sec	0.00 E+00	0.00 E+00	

TABLE 1B
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
GASEOUS EFFLUENT-ELEVATED RELEASE

		CONTINUOUS MODE	*BATCH
NUCLIDES RELEASED	UNIT	1st QUARTER	2nd QUARTER
1. Fission gases.			
krypton-83m	Ci	9.20 E-02	0.00 E+00
krypton-85m	Ci	1.70 E-01	0.00 E+00
krypton-85	Ci	5.10 E-01	0.00 E+00
krypton-87	Ci	5.40 E-01	0.00 E+00
krypton-88	Ci	5.40 E-01	0.00 E+00
krypton-89	Ci	2.50 E+00	0.00 E+00
xenon-133m	Ci	7.60 E-03	0.00 E+00
xenon-133	Ci	3.90 E-01	0.00 E+00
xenon-135m	Ci	1.80 E-01	0.00 E+00
xenon-135	Ci	6.70 E-01	0.00 E+00
xenon-137	Ci	3.10 E+00	0.00 E+00
xenon-138	Ci	2.20 E+00	0.00 E+00
Total for period	Ci	1.09 E+01	0.00 E+00
2. Iodines.			
Iodine-131	Ci	5.14 E-06	1.61 E-05
Total for period	Ci	5.14 E-06	1.61 E-05

* No batch discharges were made

TABLE 1B
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
GASEOUS EFFLUENT-ELEVATED RELEASE (continued)

		CONTINUOUS MODE		*BATCH
NUCLIDES RELEASED	UNIT	1st QUARTER	2nd QUARTER	
3. Particulates.				
Cesium-138	Ci	3.20 E-04	0.00 E+00	
rubidium-88	Ci	1.24 E-05	0.00 E+00	
Total for period	Ci	3.32 E-04	0.00 E+00	

*No batch discharges were made.

TABLE 1C
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
GASEOUS EFFLUENT-BUILDING VENT RELEASES

	NUCLIDES RELEASED	UNIT	1st QUARTER	2nd QUARTER
1.	Fission gases.			
	krypton-85m	Ci	0.00 E+00	0.00 E+00
	krypton-87	Ci	0.00 E+00	0.00 E+00
	krypton-88	Ci	0.00 E+00	0.00 E+00
	xenon-133	Ci	0.00 E+00	0.00 E+00
	xenon-135m	Ci	0.00 E+00	0.00 E+00
	xenon-135	Ci	0.00 E+00	0.00 E+00
	xenon-138	Ci	0.00 E+00	0.00 E+00
	Total for period	Ci	0.00 E+00	0.00 E+00
2.	Iodines.			
	Iodine-131	Ci	0.00 E+00	1.10 E-07
	Total for period	Ci	0.00 E+00	1.10 E-07
3.	Particulates.			
	Total for period	Ci	0.00 E+00	0.00 E+00

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

	UNIT	1st QUARTER	2nd QUARTER	EST. TOTAL ERROR %
A. Fission and activation products.				
1. Total release (not including tritium, gases, alpha)	Ci	1.15 E-01	1.09 E-01	2.0 E+01
2. Average diluted concentration during period	µCi/ml	7.57 E-09	4.34 E-09	
B. Tritium.				
1. Total release	Ci	3.16 E+00	6.95 E+01	2.0 E+01
2. Average diluted concentration during period	µCi/ml	2.08 E-07	2.77 E-06	
C. Dissolved and entrained gases.				
1. Total release	Ci	0.00 E+00	0.00 E+00	5.0 E+01
2. Average diluted concentration during period	µCi/ml	0.00 E+00	0.00 E+00	
D. Gross alpha radioactivity.				
1. Total release	Ci	7.42 E-05	0.00 E+00	5.0 E+01
E. Volume of waste released (prior to dilution).	liters	5.69 E+06	1.82 E+06	1.0 E+01
F. Volume of dilution water used during period.	liters	1.52 E+10	2.51 E+10	1.0 E+01

TABLE 2B
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
LIQUID EFFLUENTS

		CONTINUOUS MODE*	BATCH MODE
NUCLIDES RELEASED	UNIT	1st QUARTER	2nd QUARTER
manganese-54	Ci	1.75 E-02	9.44 E-03
iron-55	Ci	0.00 E+00	5.18 E-03
cobalt-58	Ci	2.25 E-04	1.74 E-04
cobalt-60	Ci	9.45 E-02	8.39 E-02
strontium-89	Ci	8.11 E-04	2.40 E-03
cesium-134	Ci	0.00 E+00	2.19 E-04
cesium-137	Ci	1.43 E-03	4.90 E-03
sodium-24	Ci	0.00 E+00	1.63 E-04
silver-110m	Ci	0.00 E+00	2.51 E-03
antimony-125	Ci	3.29 E-04	0.00 E+00
Total for period above	Ci	1.15 E-01	1.09 E-01
xenon-133	Ci	0.00 E+00	0.00 E+00
xenon-135	Ci	0.00 E+00	0.00 E+00

*No continuous mode discharges made

TABLE 3
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT
SOLID WASTE AND IRRADIATED FUEL SHIPMENTS
PERIOD January 1, 1995, TO June 30, 1995

A. SOLID WASTE SHIPPED OFFSITE FOR BURIAL OR DISPOSAL (Not Irradiated Fuel).

1. Type of Waste	UNIT	6 MONTH PERIOD	EST. TOTAL ERROR%
a. Spent resins, filter sludges, evaporator bottoms, etc.	m^3	0.00 E+00	N/A
	Ci	0.00 E+00	
b. Dry compressible waste, contaminated equip, etc.	m^3	0.00 E+00	N/A
	Ci	0.00 E+00	
c. Irradiated components, control rods, etc.	m^3	0.00 E+00	N/A
	Ci	0.00 E+00	
d. Other.	m^3	0.00 E+00	N/A
	Ci	0.00 E+00	

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

a.	cadmium-109	0.00 E+00
	carbon-14	0.00 E+00
	cesium-134	0.00 E+00
	cesium-137	0.00 E+00
	chromium-51	0.00 E+00
	cobalt-57	0.00 E+00
	cobalt-58	0.00 E+00
	cobalt-60	0.00 E+00
	curium-242	0.00 E+00
	iodine-131	0.00 E+00
	iron-55	0.00 E+00
	iron-59	0.00 E+00
	manganese-54	0.00 E+00
	nickel-59	0.00 E+00
	nickel-63	0.00 E+00
	plutonium-241	0.00 E+00
	silver-110m	0.00 E+00
	sodium-24	0.00 E+00
	strontium-89	0.00 E+00
	strontium-90	0.00 E+00
	transuranics	0.00 E+00
	tritium	0.00 E+00
	zinc-65	0.00 E+00
b.	americium-241	0.00 E+00
	antimony-125	0.00 E+00
	carbon-14	0.00 E+00
	cesium-134	0.00 E+00
	cesium-137	0.00 E+00
	chromium-51	0.00 E+00

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

b. (continued)

cobalt-57	0.00 E+00
cobalt-58	0.00 E+00
cobalt-60	0.00 E+00
iron-55	0.00 E+00
lanthanum-140	0.00 E+00
manganese-54	0.00 E+00
nickel-63	0.00 E+00
silver-110m	0.00 E+00
strontium-89	0.00 E+00
strontium-90	0.00 E+00
transuranics	0.00 E+00
tritum	0.00 E+00

3. SOLID WASTE DISPOSITION

NUMBER OF SHIPMENTS	MODE OF TRANSPORTATION	DESTINATION
0	N/A	N/A

4. SOLIDIFICATION AGENT

N/A

B. IRRADIATED FUEL SHIPMENTS (Disposition)

NUMBER OF SHIPMENTS	MODE OF TRANSPORTATION	DESTINATION
0	N/A	N/A

GASEOUS RADIOACTIVE WASTES

CUMULATIVE DOSE DATA

A. Maximum gamma air dose		1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	Annual
Site boundary (0.67 miles North)						
1. Total	mrad	7.76E-5	0.00E+0			
2. Percent of Technical Specification Limit	%	0.00	0.00			
Most Exposed Resident (0.90 miles Northwest)						
1. Total	mrad	2.51E-4	0.00E+0			
2. Percent of Technical Specification Limit	%	0.01	0.00			
B. Maximum beta air dose						
Site boundary (0.67 miles North)						
1. Total	mrad	7.75E-5	0.00E+0			
2. Percent of Technical Specification Limit	%	0.00	0.00			
Most Exposed Resident (0.90 miles Northwest)						
1. Total	mrad	2.28E-4	0.00E+0			
2. Percent of Technical Specification Limit	%	0.00	0.00			
C. Maximum organ dose due to I-131, I-133, and particulates (>8 day half lives)						
Site boundary (0.67 miles North)						
1. Total	mrem	1.49E-4	2.68E-4			
2. Percent of Technical Specification Limit	%	0.00	0.00			
3. Organ		Thyroid	Thyroid			
4. Exposed Individual		Infant	Infant			
Most Exposed Resident (0.90 miles Northwest)						
1. Total	mrem	2.14E-4	3.70E-4			
2. Percent of Technical Specification Limit	%	0.00	0.00			
3. Organ		Thyroid	Thyroid			
4. Exposed Individual		Infant	Infant			

D. Maximum organ dose rate due to I-131, I-133, tritium, and particulates (>8 day half-lives) was 3.70 E-04 mrem/quarter which was 0.00 % of the Technical Specification Limit.

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

LIQUID RADIOACTIVE WASTES

CUMULATIVE DOSE DATA

			1st Qtr	2nd Qtr
A.	Maximum whole body dose			
	1. Total	mrem	5.84E-4	7.59E-4
	2. Percent of Technical Specification Limit	%	0.04	0.05
B.	Maximum organ dose			
	1. Total	mrem	4.05E-3	2.46E-3
	2. Percent of Technical Specification Limit	%	0.08	0.05

C. All radioactive liquid effluents were diluted, at time of discharge to concentrations below the concentrations specified in 10 CFR Part 20.106 for radionuclides other than dissolved and entrained noble gases. For dissolved and entrained noble gases the concentrations were diluted below 2.00 E-04 uCi/ml total activity.

SUPPLEMENTAL INFORMATION

A. Unplanned Releases:

None.

B. District Initiated Changes to the Process Control Program:

None.

C. District Initiated Changes to the Offsite Dose Assessment Manual:

None.

D. Technical Specifications Violation:

Cooper Nuclear Station Technical Specifications require that a grab sample be taken once per day and analyzed within 24 hours whenever a radioactive gaseous effluent monitor is inoperable. On February 2, 1995, the Elevated Release Point gaseous effluent monitor was inoperable and a grab sample was not taken and analyzed as required.

The reactor had been in cold shutdown since late May of 1994 and no gaseous effluents were being generated at the time that the Elevated Release Point gaseous effluent monitor was inoperable. Review of analysis performed on this gaseous effluent point revealed that no noble gases were released during the time that the reactor was in cold shutdown. Based on these facts, the safety significance of this missed grab sample and analysis, is considered insignificant.

APPENDIX B

METEOROLOGY

CONTENTS

METEOROLOGICAL DATA SUMMARIES

Meteorological data collected onsite for the period January 1, 1995, through June 31, 1995, were reduced, validated, summarized for analysis, and included in appropriate dose calculations. 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.

	Lowest Data Recovery	Average Data Recovery
January 1 - March 31, 1995 (Q1)	75.9%	95.2%
April 1 - June 30, 1995 (Q2)	12.9%	84.6%
First Semiannual Period - January 1 - June 30, 1995 (SEM1)1	44.2%	89.9%

WIND AT 100-METER LEVEL AND 10-METER LEVEL

	Predominant Wind Direction at 100m Level	Predominant Wind Direction at 10m Level
Q1	NorthNorthwest 17.2%	NorthNorthwest 15.5%
Q2	Southeast 23.0%	NorthNorthwest 11.4%
Sem1	NorthNorthwest 14.9%	NorthNorthwest 13.5%

	Mean Wind Speed at 100m Level	Mean Wind Speed at 10m Level
Q1	13.7 MPH	8.4 MPH
Q2	13.8 MPH	8.2 MPH
SEM1	13.7 MPH	8.3 MPH

	Maximum Hourly Average Wind Speed/(Date at 100m Level)	Maximum Hourly Average Wind Speed/(Date at 10m Level)
Q1	33.6 MPH/(95/03/26)	26.4 MPH/(95/03/26)
Q2	42.6 MPH/(95/04/18)	32.5 MPH/(95/04/18)
SEM1	42.6 MPH/(95/04/18)	32.5 MPH/(95/04/18)

TEMPERATURE AT 10-METER LEVEL

	Mean Hourly Average Temperature	Average Daily Maximum	Average Daily Minimum
Q1	0.7 Degrees Celsius	5.9 Degrees Celsius	-3.5 Degrees Celsius
Q2	16.0 Degrees Celsius	20.0 Degrees Celsius	11.7 Degrees Celsius
SEM1	8.0 Degrees Celsius	13.0 Degrees Celsius	4.1 Degrees Celsius

	Maximum Temperature (Date)	Minimum Temperature (Date)
Q1	25.4 Degrees Celsius (95/02/25)	-21.1 Degrees Celsius (95/01/07)
Q2	33.0 Degrees Celsius (95/06/21)	-3.9 Degrees Celsius (95/04/04)
SEM1	33.0 Degrees Celsius (95/06/21)	-21.1 Degrees Celsius (95/01/07)

PRECIPITATION

	Total Precipitation	Maximum Daily Precipitation Total/(Date)	Maximum Hourly Precipitation Total/(Date)
Q1	3.75 Inches	1.40 Inches (95/03/25)	0.30 Inches (95/03/25)
Q2	19.50 Inches	2.00 Inches (95/06/08)	1.60 Inches (95/06/08)
SEM1	23.25 Inches	2.00 Inches (95/06/08)	1.60 Inches (95/06/08)

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	13%	48%	39%
Q2	22%	50%	28%
SEM1	15%	48%	37%

Table 1. Meteorological Data Recovery

Data Recovery (% of total Observations)

	January-March 1995	April-June 1995	January-June 1995
100m wind speed	99.7	98.4	99.0
100m wind direction	82.5	16.1	49.1
100m ambient temperature	94.8	97.8	96.3
60m wind speed	99.7	98.4	99.0
60m wind direction	99.7	98.4	99.0
60m ambient temperature	97.6	97.1	97.3
10m wind speed	99.7	98.4	99.0
10m direction	99.7	98.4	99.0
10m ambient temperature	96.1	86.4	91.2
10m dew point	99.7	97.7	98.7
100m-10m delta T	92.4	85.6	89.0
100m-60m delta T	93.9	97.1	95.5
60m-10m delta T	96.1	85.6	90.8
Precipitation	100.0	99.6	99.8
100m JFD	75.9	12.9	44.2
10m JFD	96.1	85.6	90.8

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

MONTHLY SUMMARY TABLES OF HOURLY METEORLOGICAL 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 semiannual period January through June, 1995. Summaries for the first quarter, second quarter, and semiannual period 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: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 1995

MONTHLY HOUR AVERAGES FOR THE PERIOD 1/ 1/95 TO 3/31/95

JANUARY

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	31.	-4.9	31.	-8.1	31.	78.5	31.	3.0	31.	-5.9
2	31.	-5.2	31.	-8.3	31.	79.3	31.	3.0	31.	-6.1
3	31.	-5.3	31.	-8.3	31.	79.4	31.	3.0	31.	-6.2
4	31.	-5.5	31.	-8.5	31.	79.6	31.	2.9	31.	-6.4
5	31.	-5.8	31.	-8.7	31.	79.9	31.	2.8	31.	-6.7
6	31.	-6.0	31.	-8.9	31.	80.1	31.	2.8	31.	-6.9
7	30.	-6.3	30.	-9.2	30.	80.3	30.	2.7	30.	-7.1
8	30.	-6.4	30.	-9.3	30.	80.2	30.	2.7	30.	-7.2
9	30.	-6.3	30.	-9.1	30.	80.6	30.	2.7	30.	-7.1
10	31.	-5.2	31.	-8.6	31.	77.2	31.	2.8	31.	-6.2
11	31.	-4.1	31.	-8.2	31.	73.7	31.	2.9	31.	-5.3
12	31.	-3.0	31.	-7.7	31.	70.6	31.	3.0	31.	-4.5
13	31.	-2.2	31.	-7.4	31.	67.9	31.	3.0	31.	-3.8
14	31.	-1.3	31.	-7.1	31.	65.7	31.	3.1	31.	-3.2
15	31.	-0.6	31.	-6.8	31.	64.2	31.	3.2	31.	-2.7
16	31.	-0.2	31.	-6.7	31.	62.7	31.	3.2	31.	-2.4
17	31.	-0.3	31.	-6.7	31.	63.4	31.	3.2	31.	-2.5
18	31.	-1.0	31.	-6.8	31.	66.0	31.	3.2	31.	-2.9
19	31.	-1.7	31.	-6.7	31.	69.3	31.	3.2	31.	-3.4
20	31.	-2.4	31.	-6.8	31.	71.9	31.	3.2	31.	-3.8
21	31.	-2.8	31.	-7.0	31.	73.5	31.	3.2	31.	-4.2
22	31.	-3.3	31.	-7.2	31.	74.6	31.	3.1	31.	-4.5
23	31.	-3.7	31.	-7.4	31.	76.2	31.	3.1	31.	-4.9
24	31.	-4.1	31.	-7.5	31.	77.2	31.	3.1	31.	-5.1
HOURLY MEAN		-3.7		-7.8		73.8		3.0		-4.9
AVG DAILY MAX		0.7		-4.7		84.3		3.7		-1.4
AVG DAILY MIN		-7.8		-10.9		61.0		2.4		-8.6
ABSOLUTE MAX		13.6		5.5		96.0		6.9		8.0
ABSOLUTE MIN		-21.1		-23.7		40.1		0.8		-21.4
TOTAL OBS	741		741		741		741		741	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 1995

MONTHLY HOUR AVERAGES FOR THE PERIOD 1/ 1/95 TO 3/31/95

FEBRUARY

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	27.	0.3	28.	-5.6	27.	64.7	27.	3.4	27.	-1.8
2	27.	0.0	28.	-5.8	27.	65.5	27.	3.3	27.	-2.1
3	27.	-0.3	28.	-6.0	27.	66.1	27.	3.3	27.	-2.3
4	27.	-0.8	28.	-6.1	27.	67.7	27.	3.3	27.	-2.7
5	27.	-1.4	28.	-6.3	27.	69.1	27.	3.2	27.	-3.1
6	26.	-2.0	27.	-6.8	26.	69.6	26.	3.1	26.	-3.7
7	26.	-2.4	27.	-7.1	26.	70.1	26.	3.1	26.	-4.0
8	26.	-2.8	27.	-7.2	26.	70.9	26.	3.0	26.	-4.3
9	27.	-2.0	28.	-6.9	27.	69.0	27.	3.1	27.	-3.7
10	27.	-0.6	28.	-6.6	27.	64.2	27.	3.2	27.	-2.7
11	27.	0.8	28.	-6.7	27.	58.2	27.	3.1	27.	-1.9
12	27.	2.1	28.	-6.8	27.	53.2	27.	3.1	27.	-1.1
13	27.	3.2	28.	-6.8	27.	50.2	27.	3.1	27.	-0.5
14	27.	4.4	28.	-6.7	27.	47.4	27.	3.1	27.	0.2
15	28.	4.9	28.	-6.5	28.	47.7	28.	3.2	28.	0.6
16	27.	5.3	28.	-6.3	27.	46.1	27.	3.1	27.	0.7
17	27.	5.3	28.	-6.2	27.	46.3	27.	3.1	27.	0.8
18	27.	4.6	28.	-6.3	27.	47.9	27.	3.1	27.	0.4
19	27.	3.2	28.	-6.4	27.	51.5	27.	3.1	27.	-0.4
20	27.	2.4	28.	-6.4	27.	53.6	27.	3.1	27.	-0.9
21	27.	1.6	28.	-6.4	27.	56.0	27.	3.2	27.	-1.3
22	27.	1.1	28.	-6.4	27.	57.9	27.	3.2	27.	-1.6
23	27.	0.7	28.	-6.3	27.	60.1	27.	3.2	27.	-1.9
24	27.	0.2	28.	-6.2	27.	62.8	27.	3.3	27.	-2.1
HOURLY MEAN		1.2		-6.4		58.9		3.2		-1.6
AVG DAILY MAX		6.7		-2.6		76.4		4.2		2.3
AVG DAILY MIN		-3.8		-9.6		43.3		2.6		-5.3
ABSOLUTE MAX		25.4		8.6		89.7		8.4		13.5
ABSOLUTE MIN		-14.3		-22.5		19.8		0.8		-15.0
TOTAL OBS	646		669		646		646		646	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 1995

MONTHLY HOUR AVERAGES FOR THE PERIOD 1/ 1/95 TO 3/31/95

MARCH

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	27.	2.0	31.	-1.8	27.	68.0	27.	4.3	27.	0.0
2	29.	2.3	31.	-2.1	29.	68.9	29.	4.4	29.	0.3
3	29.	2.1	31.	-2.2	29.	69.3	29.	4.4	29.	0.2
4	28.	1.5	31.	-2.2	28.	69.5	28.	4.2	28.	-0.4
5	28.	1.4	31.	-2.2	28.	70.5	28.	4.2	28.	-0.5
6	28.	1.3	31.	-2.3	28.	70.7	28.	4.2	28.	-0.5
7	28.	1.2	31.	-2.4	28.	70.5	28.	4.1	28.	-0.6
8	28.	1.5	31.	-2.2	28.	69.7	28.	4.2	28.	-0.4
9	28.	2.6	31.	-1.8	28.	66.9	28.	4.3	28.	0.4
10	29.	4.2	31.	-1.4	29.	63.6	29.	4.6	29.	1.6
11	29.	5.5	31.	-1.0	29.	60.2	29.	4.7	29.	2.5
12	30.	6.9	31.	-0.7	30.	58.1	30.	5.0	30.	3.5
13	30.	7.7	30.	-0.9	30.	56.1	30.	5.0	30.	4.0
14	30.	8.5	31.	-0.5	30.	53.9	30.	4.9	30.	4.4
15	29.	9.1	31.	-0.6	29.	50.9	29.	4.8	29.	4.6
16	29.	9.5	31.	-0.5	29.	50.0	29.	4.8	29.	4.8
17	29.	9.5	31.	-0.4	29.	50.1	29.	4.9	29.	4.8
18	29.	8.9	31.	-0.5	29.	51.3	29.	4.8	29.	4.5
19	29.	7.8	31.	-0.6	29.	54.3	29.	4.8	29.	3.9
20	29.	6.5	31.	-0.6	29.	58.1	29.	4.8	29.	3.2
21	29.	5.5	31.	-0.8	29.	61.2	29.	4.8	29.	2.6
22	29.	4.6	31.	-0.9	29.	64.1	29.	4.7	29.	2.1
23	28.	3.7	31.	-1.1	28.	65.7	28.	4.6	28.	1.4
24	27.	2.9	31.	-1.3	27.	66.6	27.	4.4	27.	0.7
HOURLY MEAN		4.9		-1.3		61.9		4.6		2.0
AVG DAILY MAX		10.4		1.5		75.4		5.8		5.8
AVG DAILY MIN		1.2		-4.1		48.5		4.1		-0.6
ABSOLUTE MAX		23.8		12.9		89.5		10.5		15.2
ABSOLUTE MIN		-17.1		-21.4		23.7		0.9		-17.7
TOTAL OBS	688		743		688		688		688	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-MAR 1995

JAN-MAR HOUR AVERAGES FOR THE PERIOD 1/ 1/95 TO 3/31/95

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	85.	-1.1	90.	-5.2	85.	70.8	85.	3.5	85.	-2.7
2	87.	-1.1	90.	-5.4	87.	71.5	87.	3.6	87.	-2.7
3	87.	-1.3	90.	-5.5	87.	71.9	87.	3.6	87.	-2.9
4	86.	-1.8	90.	-5.6	86.	72.6	86.	3.4	86.	-3.3
5	86.	-2.1	90.	-5.7	86.	73.4	86.	3.4	86.	-3.5
6	85.	-2.4	89.	-6.0	85.	73.8	85.	3.3	85.	-3.8
7	84.	-2.6	88.	-6.1	84.	73.9	84.	3.3	84.	-4.0
8	84.	-2.7	88.	-6.2	84.	73.8	84.	3.3	84.	-4.0
9	85.	-2.0	89.	-5.9	85.	72.4	85.	3.4	85.	-3.5
10	87.	-0.7	90.	-5.5	87.	68.6	87.	3.5	87.	-2.5
11	87.	0.6	90.	-5.3	87.	64.4	87.	3.6	87.	-1.7
12	88.	1.9	90.	-5.0	88.	61.0	88.	3.7	88.	-0.7
13	88.	2.8	89.	-5.0	88.	58.5	88.	3.7	88.	-0.1
14	88.	3.8	90.	-4.7	88.	56.1	88.	3.7	88.	0.4
15	88.	4.3	90.	-4.6	88.	54.6	88.	3.7	88.	0.7
16	87.	4.7	90.	-4.4	87.	53.3	87.	3.7	87.	1.0
17	87.	4.7	90.	-4.4	87.	53.7	87.	3.7	87.	1.0
18	87.	4.1	90.	-4.4	87.	55.5	87.	3.7	87.	0.6
19	87.	3.0	90.	-4.5	87.	58.8	87.	3.7	87.	0.0
20	87.	2.1	90.	-4.6	87.	61.6	87.	3.7	87.	-0.6
21	87.	1.3	90.	-4.7	87.	63.9	87.	3.7	87.	-1.0
22	87.	0.7	90.	-4.8	87.	65.9	87.	3.7	87.	-1.4
23	86.	0.1	90.	-4.9	86.	67.7	86.	3.6	86.	-1.9
24	85.	-0.5	90.	-5.0	85.	69.3	85.	3.5	85.	-2.3
HOURLY MEAN		0.7		-5.1		65.2		3.6		-1.6
AVG DAILY MAX		5.9		-1.9		78.7		4.6		2.2
AVG DAILY MIN		-3.5		-8.2		51.2		3.0		-4.8
ABSOLUTE MAX		25.4		12.9		96.0		10.5		15.2
ABSOLUTE MIN		-21.1		-23.7		19.8		0.8		-21.4
TOTAL OBS	2075		2153		2075		2075		2075	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 1995

MONTHLY HOUR AVERAGES FOR THE PERIOD 4/ 1/95 TO 6/30/95

APRIL

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	26.	8.3	29.	2.1	26.	64.2	26.	5.6	26.	5.5
2	27.	7.6	29.	2.1	27.	66.7	27.	5.6	27.	5.1
3	27.	7.2	29.	2.0	27.	68.4	27.	5.6	27.	4.8
4	26.	6.8	29.	1.9	26.	69.0	26.	5.5	26.	4.5
5	26.	6.3	29.	1.7	26.	70.4	26.	5.4	26.	4.2
6	26.	6.1	29.	1.6	26.	71.2	26.	5.4	26.	4.0
7	27.	6.3	29.	1.5	27.	70.9	27.	5.5	27.	4.2
8	26.	7.1	29.	1.8	26.	67.6	26.	5.4	26.	4.6
9	25.	8.6	29.	2.0	25.	62.7	25.	5.5	25.	5.6
10	24.	10.0	29.	2.2	24.	57.5	24.	5.5	24.	6.3
11	23.	11.6	28.	2.1	23.	51.9	23.	5.4	23.	7.0
12	25.	12.4	28.	1.9	25.	50.0	25.	5.5	25.	7.5
13	25.	13.3	28.	1.6	25.	46.8	25.	5.3	25.	7.8
14	26.	14.3	29.	1.7	26.	44.7	26.	5.4	26.	8.3
15	26.	15.0	29.	1.6	26.	43.2	26.	5.3	26.	8.6
16	26.	15.3	29.	1.7	26.	43.0	26.	5.4	26.	8.8
17	27.	14.8	29.	1.6	27.	44.2	27.	5.3	27.	8.5
18	27.	14.4	29.	1.6	27.	45.6	27.	5.3	27.	8.3
19	26.	13.7	29.	1.7	26.	46.8	26.	5.3	26.	8.0
20	25.	12.4	29.	2.0	25.	50.0	25.	5.5	25.	7.5
21	25.	11.4	29.	2.2	25.	53.7	25.	5.5	25.	7.0
22	25.	10.3	29.	2.4	25.	57.7	25.	5.6	25.	6.6
23	25.	9.5	29.	2.4	25.	60.5	25.	5.7	25.	6.2
24	26.	9.0	29.	2.5	26.	63.4	26.	5.8	26.	6.0
HOURLY MEAN		10.5		1.9		57.2		5.5		6.5
AVG DAILY MAX		15.0		5.3		74.4		6.8		9.1
AVG DAILY MIN		5.5		-1.0		43.7		4.6		3.4
ABSOLUTE MAX		25.3		11.8		88.1		10.1		15.9
ABSOLUTE MIN		-3.9		-13.6		19.0		1.7		-5.8
TOTAL OBS	617		693		617		617		617	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 1995

MONTHLY HOUR AVERAGES FOR THE PERIOD 4/ 1/95 TO 6/30/95

MAY

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	26.	13.1	30.	8.6	25.	72.1	25.	8.3	25.	10.5
2	26.	12.6	30.	8.4	25.	73.4	25.	8.2	25.	10.1
3	26.	12.2	30.	8.3	25.	75.0	25.	8.1	25.	9.9
4	25.	12.0	30.	8.1	24.	76.0	24.	8.2	24.	9.8
5	25.	11.7	30.	7.9	24.	76.6	24.	8.1	24.	9.5
6	25.	11.5	30.	7.9	24.	77.4	24.	8.0	24.	9.4
7	25.	12.0	31.	8.1	25.	75.6	25.	8.2	25.	9.9
8	26.	13.0	31.	8.2	26.	71.3	26.	8.2	26.	10.4
9	27.	14.1	31.	8.1	27.	67.2	27.	8.3	27.	10.9
10	28.	14.9	31.	8.1	28.	64.2	28.	8.2	28.	11.3
11	29.	15.6	30.	8.0	28.	60.5	28.	8.1	28.	11.6
12	29.	16.3	30.	7.9	28.	57.4	28.	8.1	28.	11.9
13	29.	17.1	30.	7.9	28.	54.7	28.	8.1	28.	12.3
14	28.	17.9	30.	8.0	27.	51.7	27.	8.1	27.	12.6
15	28.	18.3	30.	8.2	27.	51.1	27.	8.2	27.	12.9
16	27.	18.5	30.	8.2	26.	50.3	26.	8.1	26.	12.8
17	28.	18.3	30.	8.0	27.	50.2	27.	7.9	27.	12.7
18	28.	18.2	31.	8.1	28.	52.3	28.	8.1	28.	12.7
19	28.	17.7	31.	8.4	28.	54.8	28.	8.3	28.	12.6
20	28.	16.7	31.	8.8	28.	59.1	28.	8.5	28.	12.4
21	27.	15.5	31.	9.0	27.	63.3	27.	8.4	27.	11.8
22	27.	14.8	30.	8.8	26.	65.4	26.	8.3	26.	11.4
23	27.	14.2	30.	8.9	26.	68.2	26.	8.4	26.	11.1
24	25.	13.8	30.	8.9	24.	69.6	24.	8.3	24.	10.8
HOURLY MEAN		15.1		8.3		63.7		8.2		11.4
AVG DAILY MAX		18.7		11.0		79.0		9.7		13.3
AVG DAILY MIN		11.4		6.0		50.3		7.2		9.1
ABSOLUTE MAX		27.6		18.4		87.3		15.5		21.6
ABSOLUTE MIN		2.5		-0.2		29.5		4.6		1.5
TOTAL OBS	647		728		631		631		631	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 1995

MONTHLY HOUR AVERAGES FOR THE PERIOD 4/ 1/95 TO 6/30/95

JUNE

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	27.	20.4	29.	14.8	27.	70.7	27.	12.6	27.	17.1
2	27.	19.9	29.	14.4	27.	71.3	27.	12.4	27.	16.7
3	26.	19.6	29.	14.2	26.	71.6	26.	12.3	26.	16.5
4	26.	19.2	29.	14.1	26.	72.8	26.	12.2	26.	16.2
5	25.	18.7	29.	13.9	25.	73.4	25.	11.9	25.	15.8
6	26.	18.6	30.	13.8	26.	73.8	26.	11.9	26.	15.8
7	25.	19.3	30.	13.9	25.	71.4	25.	12.0	25.	16.2
8	22.	20.5	30.	14.0	22.	66.0	22.	11.9	22.	16.6
9	22.	21.9	30.	14.2	22.	61.4	22.	12.0	22.	17.2
10	22.	23.4	30.	14.2	22.	56.2	22.	11.9	22.	17.7
11	23.	24.0	30.	13.9	23.	52.8	23.	11.5	23.	17.7
12	24.	24.2	30.	13.7	24.	52.1	24.	11.4	24.	17.7
13	24.	24.7	30.	13.7	24.	50.6	24.	11.3	24.	17.8
14	25.	25.3	30.	13.7	25.	49.5	25.	11.4	25.	18.1
15	25.	25.3	30.	13.8	25.	49.6	25.	11.4	25.	18.1
16	25.	25.4	30.	13.7	25.	49.2	25.	11.4	25.	18.1
17	27.	25.4	30.	13.8	27.	50.3	27.	11.6	27.	18.3
18	30.	25.8	30.	13.9	30.	49.7	30.	11.8	30.	18.6
19	30.	25.4	30.	14.3	30.	52.2	30.	12.1	30.	18.6
20	28.	24.3	29.	14.9	28.	56.9	28.	12.5	28.	18.5
21	28.	22.9	29.	15.2	28.	62.7	28.	12.8	28.	18.2
22	29.	22.0	30.	15.0	29.	65.2	29.	12.7	29.	17.8
23	28.	21.5	30.	15.0	28.	67.0	28.	12.6	28.	17.5
24	28.	20.8	29.	14.9	28.	69.7	28.	12.7	28.	17.3
HOURLY MEAN		22.5		14.2		61.1		12.0		17.5
AVG DAILY MAX		26.5		16.3		77.1		13.7		19.1
AVG DAILY MIN		18.2		12.3		46.3		10.7		15.4
ABSOLUTE MAX		33.0		20.0		86.1		16.9		22.5
ABSOLUTE MIN		11.5		4.5		28.2		6.2		9.3
TOTAL OBS	622		712		622		622		622	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY APR-JUN 1995

APR-JUN HOUR AVERAGES FOR THE PERIOD 4/ 1/95 TO 6/30/95

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	79.	14.0	88.	8.5	78.	69.0	78.	8.9	78.	11.1
2	80.	13.4	88.	8.3	79.	70.4	79.	8.7	79.	10.7
3	79.	12.9	88.	8.2	78.	71.6	78.	8.6	78.	10.3
4	77.	12.7	88.	8.0	76.	72.5	76.	8.6	76.	10.2
5	76.	12.2	88.	7.9	75.	73.4	75.	8.4	75.	9.8
6	77.	12.0	89.	7.8	76.	74.1	76.	8.4	76.	9.7
7	77.	12.4	90.	7.9	77.	72.6	77.	8.5	77.	10.0
8	74.	13.2	90.	8.1	74.	68.4	74.	8.3	74.	10.2
9	74.	14.6	90.	8.2	74.	64.0	74.	8.4	74.	11.0
10	74.	15.8	90.	8.3	74.	59.6	74.	8.4	74.	11.6
11	75.	17.0	88.	8.1	74.	55.4	74.	8.3	74.	12.1
12	78.	17.5	88.	8.0	77.	53.4	77.	8.2	77.	12.3
13	78.	18.2	88.	7.8	77.	50.8	77.	8.2	77.	12.6
14	79.	19.1	89.	7.9	78.	48.7	78.	8.3	78.	13.0
15	79.	19.4	89.	7.9	78.	48.0	78.	8.3	78.	13.1
16	78.	19.6	89.	8.0	77.	47.5	77.	8.2	77.	13.2
17	82.	19.5	89.	7.9	81.	48.2	81.	8.3	81.	13.2
18	85.	19.7	90.	8.0	85.	49.3	85.	8.5	85.	13.4
19	84.	19.2	90.	8.2	84.	51.4	84.	8.7	84.	13.3
20	81.	18.0	89.	8.6	81.	55.6	81.	8.9	81.	13.0
21	80.	16.8	89.	8.8	80.	60.1	80.	9.1	80.	12.5
22	81.	16.0	89.	8.8	80.	62.9	80.	9.1	80.	12.2
23	80.	15.3	89.	8.8	79.	65.3	79.	9.0	79.	11.8
24	79.	14.7	88.	8.8	78.	67.6	78.	9.0	78.	11.5
HOURLY MEAN		16.0		8.2		60.7		8.6		11.8
AVG DAILY MAX		20.0		10.9		76.9		10.1		13.8
AVG DAILY MIN		11.7		5.8		46.8		7.5		9.3
ABSOLUTE MAX		33.0		20.0		88.1		16.9		22.5
ABSOLUTE MIN		-3.9		-13.6		19.0		1.7		-5.8
TOTAL OBS	1886		2133		1870		1870		1870	

PROGRAM: WETTEMP
VERSION: 3P

NPPD-COOPER NUCLEAR STATION 10-M TEMPERATURE SUMMARY JAN-JUN 1995

JAN-JUN HOUR AVERAGES FOR THE PERIOD 1/ 1/95 TO 6/30/95

10.0 METERS LEVEL

	TEMPERATURE		DEW POINT		RELATIVE HUM		ABSOLUTE HUM		WET BULB	
HOUR	NUMBER OBS	(DEG C)	NUMBER OBS	(DEG C)	NUMBER OBS	(%)	NUMBER OBS	(GM/M3)	NUMBER OBS	(DEG C)
1	164.	6.2	178.	1.6	163.	69.9	163.	6.1	163.	3.9
2	167.	5.8	178.	1.4	166.	71.0	166.	6.0	166.	3.6
3	166.	5.5	178.	1.3	165.	71.8	165.	6.0	165.	3.4
4	163.	5.0	178.	1.1	162.	72.5	162.	5.9	162.	3.0
5	162.	4.6	178.	1.0	161.	73.4	161.	5.7	161.	2.7
6	162.	4.5	178.	0.9	161.	73.9	161.	5.8	161.	2.6
7	161.	4.6	178.	1.0	161.	73.3	161.	5.8	161.	2.7
8	158.	4.7	178.	1.0	158.	71.3	158.	5.7	158.	2.6
9	159.	5.7	179.	1.2	159.	68.5	159.	5.7	159.	3.2
10	161.	6.9	180.	1.4	161.	64.5	161.	5.8	161.	4.0
11	162.	8.2	178.	1.4	161.	60.3	161.	5.8	161.	4.7
12	166.	9.2	178.	1.4	165.	57.4	165.	5.8	165.	5.3
13	166.	10.1	177.	1.4	165.	54.9	165.	5.8	165.	5.8
14	167.	11.0	179.	1.5	166.	52.6	166.	5.9	166.	6.3
15	167.	11.5	179.	1.7	166.	51.5	166.	5.8	166.	6.6
16	165.	11.8	179.	1.7	164.	50.6	164.	5.8	164.	6.7
17	169.	11.9	179.	1.7	168.	51.0	168.	5.9	168.	6.9
18	172.	11.8	180.	1.8	172.	52.4	172.	6.1	172.	6.9
19	171.	10.9	180.	1.9	171.	55.1	171.	6.2	171.	6.5
20	168.	9.8	179.	2.0	168.	58.7	168.	6.2	168.	6.0
21	167.	8.7	179.	2.0	167.	62.1	167.	6.3	167.	5.5
22	168.	8.1	179.	2.0	167.	64.5	167.	6.3	167.	5.1
23	166.	7.4	179.	1.9	165.	66.6	165.	6.2	165.	4.7
24	164.	6.8	178.	1.8	163.	68.5	163.	6.2	163.	4.3
HOURLY MEAN		8.0		1.5		63.1		5.9		4.7
AVG DAILY MAX		13.0		4.5		77.8		7.3		8.1
AVG DAILY MIN		4.1		-1.1		49.0		5.3		2.3
ABSOLUTE MAX		33.0		20.0		96.0		16.9		22.5
ABSOLUTE MIN		-21.1		-23.7		19.0		0.8		-21.4
TOTAL OBS	3961		4286		3945		3945		3945	

Wind Direction Frequencies

10-Meter Level

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-MAR 1995

PROGRAM: WINPER
VERSION: 2P

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	12.9	9.7	0.0	0.0	0.0	6.5	9.7	6.5	6.5	9.7	0.0	0.0	6.5	0.0	16.1	14.1	0.0	100.
2	9.7	3.2	0.0	0.0	0.0	6.5	6.5	9.7	12.9	3.2	0.0	6.5	3.2	0.0	19.4	19.4	0.0	100.
3	9.7	3.2	3.2	0.0	0.0	3.2	9.7	0.0	16.1	3.2	3.2	6.5	0.0	3.2	19.4	19.4	0.0	100.
4	6.5	3.2	3.2	0.0	0.0	9.7	3.2	0.0	19.4	0.0	9.7	0.0	0.0	6.5	19.4	19.4	0.0	100.
5	16.1	0.0	3.2	3.2	0.0	9.7	6.5	3.2	9.7	0.0	3.2	3.2	0.0	9.7	16.1	16.1	0.0	100.
6	3.2	3.2	0.0	0.0	3.2	6.5	12.9	3.2	3.2	6.5	3.2	0.0	6.5	16.1	16.1	16.1	0.0	100.
7	6.7	3.3	0.0	0.0	6.7	3.3	10.0	6.7	6.7	6.7	6.7	3.3	6.7	3.3	10.0	20.0	0.0	100.
8	3.3	3.3	3.3	0.0	3.3	6.7	16.7	3.3	10.0	3.3	3.3	0.0	6.7	6.7	10.0	20.0	0.0	100.
9	13.3	6.7	0.0	0.0	3.3	3.3	16.7	6.7	6.7	0.0	3.3	3.3	3.3	0.0	16.7	16.7	0.0	100.
10	12.9	6.5	0.0	0.0	3.2	0.0	22.6	3.2	9.7	0.0	3.2	3.2	6.5	0.0	12.9	16.1	0.0	100.
11	12.9	0.0	3.2	0.0	3.2	3.2	19.4	0.0	6.5	3.2	3.2	0.0	12.9	0.0	19.4	12.9	0.0	100.
12	19.4	0.0	0.0	0.0	3.2	6.5	12.9	3.2	6.5	3.2	0.0	3.2	9.7	6.5	19.4	6.5	0.0	100.
13	3.2	6.5	3.2	3.2	0.0	6.5	12.9	3.2	6.5	3.2	0.0	6.5	3.2	12.9	16.1	12.9	0.0	100.
14	9.7	6.5	0.0	3.2	0.0	6.5	9.7	6.5	3.2	6.5	0.0	3.2	9.7	12.9	9.7	12.9	0.0	100.
15	9.7	3.2	0.0	3.2	0.0	0.0	19.4	0.0	3.2	9.7	0.0	6.5	12.9	3.2	16.1	12.9	0.0	100.
16	9.7	0.0	0.0	3.2	3.2	3.2	12.9	0.0	3.2	9.7	0.0	3.2	9.7	3.2	22.6	16.1	0.0	100.
17	3.2	6.5	3.2	0.0	3.2	0.0	12.9	3.2	9.7	3.2	0.0	0.0	6.5	12.9	16.1	19.4	0.0	100.
18	12.9	6.5	3.2	0.0	3.2	3.2	9.7	6.5	6.5	0.0	0.0	3.2	6.5	9.7	16.1	12.9	0.0	100.
19	9.7	3.2	3.2	0.0	0.0	6.5	9.7	6.5	6.5	3.2	6.5	0.0	3.2	3.2	19.4	19.4	0.0	100.
20	9.7	6.5	3.2	0.0	0.0	6.5	9.7	0.0	12.9	3.2	3.2	3.2	3.2	0.0	19.4	19.4	0.0	100.
21	9.7	3.2	3.2	3.2	0.0	0.0	16.1	3.2	9.7	6.5	3.2	3.2	9.7	0.0	12.9	16.1	0.0	100.
22	9.7	3.2	0.0	3.2	3.2	3.2	9.7	9.7	16.1	3.2	0.0	3.2	0.0	3.2	16.1	16.1	0.0	100.
23	9.7	3.2	3.2	0.0	0.0	3.2	9.7	19.4	9.7	0.0	0.0	3.2	0.0	3.2	19.4	16.1	0.0	100.
24	3.2	6.5	3.2	0.0	3.2	3.2	6.5	16.1	16.1	0.0	0.0	3.2	0.0	3.2	22.6	12.9	0.0	100.
ALL	9.4	4.0	1.8	0.9	1.8	4.5	11.9	5.0	9.0	3.6	2.2	2.8	5.3	5.0	16.7	16.1	0.0	100.

NUMBER OF OBS = 741

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-MAR 1995

PROGRAM: WINPER
VERSION: 2P

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	17.9	3.6	0.0	0.0	0.0	3.6	3.6	7.1	3.6	17.9	10.7	0.0	0.0	3.6	10.7	17.9	0.0	100.
2	10.7	10.7	0.0	0.0	0.0	3.6	3.6	0.0	3.6	14.3	10.7	3.6	3.6	7.1	10.7	17.9	0.0	100.
3	14.3	0.0	0.0	0.0	0.0	0.0	3.6	3.6	17.9	7.1	17.9	0.0	3.6	10.7	10.7	10.7	0.0	100.
4	14.3	0.0	0.0	0.0	0.0	3.6	7.1	3.6	3.6	10.7	7.1	0.0	3.6	7.1	21.4	17.9	0.0	100.
5	10.7	0.0	0.0	3.6	0.0	0.0	3.6	0.0	7.1	14.3	10.7	0.0	0.0	3.6	17.9	28.6	0.0	100.
6	14.8	0.0	0.0	0.0	0.0	0.0	7.4	0.0	14.8	7.4	7.4	0.0	0.0	0.0	22.2	25.9	0.0	100.
7	14.8	0.0	0.0	0.0	0.0	0.0	3.7	0.0	18.5	18.5	0.0	3.7	0.0	0.0	11.1	29.6	0.0	100.
8	18.5	0.0	0.0	0.0	0.0	0.0	7.4	11.1	7.4	11.1	3.7	0.0	0.0	7.4	14.8	18.5	0.0	100.
9	14.3	0.0	10.7	0.0	0.0	0.0	3.6	7.1	25.0	7.1	0.0	3.6	0.0	0.0	14.3	14.3	0.0	100.
10	7.1	7.1	3.6	3.6	3.6	0.0	3.6	3.6	25.0	7.1	3.6	0.0	3.6	0.0	3.6	25.0	0.0	100.
11	10.7	10.7	0.0	0.0	0.0	3.6	3.6	0.0	14.3	14.3	17.9	0.0	0.0	0.0	7.1	17.9	0.0	100.
12	10.7	3.6	3.6	0.0	0.0	7.1	7.1	7.1	14.3	17.9	0.0	0.0	3.6	0.0	3.6	21.4	0.0	100.
13	10.7	7.1	0.0	0.0	0.0	7.1	14.3	3.6	10.7	7.1	7.1	0.0	7.1	0.0	7.1	17.9	0.0	100.
14	7.1	3.6	3.6	0.0	3.6	0.0	7.1	10.7	7.1	10.7	7.1	7.1	0.0	0.0	14.3	17.9	0.0	100.
15	7.1	0.0	3.6	0.0	3.6	0.0	21.4	0.0	7.1	10.7	7.1	0.0	10.7	0.0	7.1	21.4	0.0	100.
16	10.7	0.0	3.6	3.6	7.1	3.6	7.1	3.6	3.6	14.3	0.0	3.6	10.7	0.0	14.3	14.3	0.0	100.
17	14.3	0.0	7.1	0.0	7.1	0.0	3.6	7.1	3.6	10.7	14.3	0.0	0.0	3.6	14.3	14.3	0.0	100.
18	7.1	7.1	0.0	0.0	3.6	3.6	3.6	3.6	17.9	10.7	0.0	3.6	0.0	0.0	10.7	28.6	0.0	100.
19	7.1	7.1	0.0	0.0	3.6	3.6	3.6	3.6	17.9	14.3	7.1	0.0	0.0	3.6	3.6	25.0	0.0	100.
20	7.1	10.7	0.0	0.0	3.6	3.6	7.1	7.1	10.7	17.9	7.1	0.0	3.6	0.0	3.6	17.9	0.0	100.
21	10.7	7.1	3.6	0.0	3.6	0.0	7.1	3.6	17.9	7.1	7.1	3.6	0.0	3.6	7.1	17.9	0.0	100.
22	3.6	14.3	0.0	0.0	0.0	3.6	3.6	7.1	17.9	7.1	3.6	0.0	0.0	14.3	0.0	21.4	3.6	100.
23	21.4	3.6	0.0	3.6	0.0	0.0	3.6	3.6	17.9	21.4	0.0	0.0	0.0	7.1	3.6	14.3	0.0	100.
24	21.4	0.0	3.6	0.0	0.0	3.6	3.6	7.1	3.6	21.4	7.1	0.0	3.6	7.1	0.0	17.9	0.0	100.
ALL	12.0	4.0	1.8	0.6	1.6	2.1	6.0	4.3	12.1	12.6	6.6	1.2	2.2	3.3	9.7	19.7	0.1	100.

NUMBER OF OBS = 669

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-MAR 1995

PROGRAM: WINPER
VERSION: 2P

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	6.5	3.2	0.0	9.7	3.2	9.7	9.7	12.9	0.0	0.0	3.2	3.2	0.0	6.5	19.4	0.0	100.
2	9.7	3.2	3.2	6.5	3.2	0.0	9.7	12.9	12.9	0.0	3.2	3.2	0.0	6.5	12.9	9.7	3.2	100.
3	6.5	9.7	3.2	0.0	6.5	0.0	9.7	6.5	9.7	6.5	0.0	3.2	3.2	9.7	12.9	9.7	3.2	100.
4	12.9	3.2	3.2	6.5	3.2	0.0	6.5	12.9	9.7	0.0	3.2	0.0	6.5	9.7	9.7	12.9	0.0	100.
5	9.7	6.5	0.0	0.0	9.7	3.2	12.9	12.9	6.5	3.2	0.0	0.0	3.2	12.9	9.7	9.7	0.0	100.
6	12.9	6.5	0.0	0.0	3.2	9.7	19.4	6.5	6.5	0.0	0.0	0.0	6.5	3.2	16.1	9.7	0.0	100.
7	16.1	3.2	0.0	0.0	3.2	9.7	16.1	9.7	6.5	3.2	0.0	0.0	3.2	6.5	16.1	6.5	0.0	100.
8	9.7	6.5	3.2	0.0	0.0	6.5	19.4	16.1	3.2	3.2	0.0	0.0	3.2	6.5	12.9	9.7	0.0	100.
9	12.9	3.2	6.5	0.0	3.2	6.5	19.4	3.2	9.7	6.5	0.0	0.0	3.2	0.0	12.9	12.9	0.0	100.
10	12.9	3.2	3.2	0.0	0.0	12.9	19.4	0.0	9.7	6.5	0.0	3.2	3.2	3.2	9.7	12.9	0.0	100.
11	9.7	3.2	3.2	0.0	0.0	6.5	16.1	9.7	6.5	9.7	0.0	0.0	3.2	9.7	9.7	12.9	0.0	100.
12	9.7	6.5	0.0	3.2	3.2	3.2	16.1	6.5	12.9	6.5	0.0	0.0	0.0	6.5	22.6	3.2	0.0	100.
13	16.7	0.0	0.0	3.3	0.0	3.3	6.7	10.0	10.0	13.3	0.0	0.0	0.0	10.0	16.7	10.0	0.0	100.
14	12.9	6.5	3.2	0.0	0.0	0.0	9.7	9.7	16.1	9.7	0.0	3.2	0.0	6.5	12.9	9.7	0.0	100.
15	19.4	0.0	0.0	3.2	0.0	6.5	6.5	6.5	12.9	6.5	3.2	3.2	3.2	6.5	12.9	9.7	0.0	100.
16	9.7	3.2	3.2	0.0	0.0	3.2	12.9	6.5	9.7	12.9	3.2	0.0	0.0	12.9	16.1	6.5	0.0	100.
17	16.1	6.5	3.2	3.2	0.0	3.2	6.5	0.0	19.4	12.9	0.0	0.0	0.0	6.5	16.1	6.5	0.0	100.
18	12.9	9.7	0.0	0.0	6.5	9.7	3.2	3.2	9.7	3.2	6.5	6.5	0.0	6.5	9.7	12.9	0.0	100.
19	19.4	9.7	0.0	3.2	3.2	6.5	3.2	9.7	3.2	3.2	3.2	3.2	0.0	6.5	9.7	16.1	0.0	100.
20	12.9	12.9	3.2	0.0	6.5	6.5	3.2	3.2	12.9	0.0	6.5	0.0	0.0	6.5	9.7	16.1	0.0	100.
21	6.5	3.2	3.2	9.7	3.2	6.5	0.0	6.5	12.9	3.2	3.2	0.0	3.2	3.2	19.4	16.1	0.0	100.
22	6.5	3.2	6.5	6.5	0.0	6.5	9.7	3.2	12.9	6.5	0.0	3.2	0.0	3.2	12.9	19.4	0.0	100.
23	9.7	3.2	9.7	12.9	0.0	3.2	6.5	3.2	16.1	3.2	0.0	3.2	0.0	3.2	19.4	6.5	0.0	100.
24	6.5	3.2	12.9	6.5	6.5	6.5	3.2	9.7	9.7	6.5	0.0	3.2	0.0	3.2	12.9	9.7	0.0	100.
ALL	11.8	5.1	3.1	2.7	3.0	5.1	10.2	7.4	10.5	5.2	1.3	1.6	1.9	6.2	13.3	11.2	0.3	100.

NUMBER OF OBS = 743

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-MAR 1995

PROGRAM: WINPER
VERSION: 2P

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	14.4	6.7	1.1	0.0	3.3	4.4	7.8	7.8	7.8	8.9	3.3	1.1	3.3	1.1	11.1	17.8	0.0	100.
2	10.0	5.6	1.1	2.2	1.1	3.3	6.7	7.8	10.0	5.6	4.4	4.4	2.2	4.4	14.4	15.6	1.1	100.
3	10.0	4.4	2.2	0.0	2.2	1.1	7.8	3.3	14.4	5.6	6.7	3.3	2.2	7.8	14.4	13.3	1.1	100.
4	11.1	2.2	2.2	2.2	1.1	4.4	5.6	5.6	11.1	3.3	6.7	0.0	3.3	7.8	16.7	16.7	0.0	100.
5	12.2	2.2	1.1	2.2	3.3	4.4	7.8	5.6	7.8	5.6	4.4	1.1	1.1	8.9	14.4	17.8	0.0	100.
6	10.1	3.4	0.0	0.0	2.2	5.6	13.5	3.4	7.9	4.5	3.4	0.0	4.5	6.7	18.0	16.9	0.0	100.
7	12.5	2.3	0.0	0.0	3.4	4.5	10.2	5.7	10.2	9.1	2.3	2.3	3.4	3.4	12.5	18.2	0.0	100.
8	10.2	3.4	2.3	0.0	1.1	4.5	14.8	10.2	6.8	5.7	2.3	0.0	3.4	6.8	12.5	15.9	0.0	100.
9	13.5	3.4	5.6	0.0	2.2	3.4	13.5	5.6	13.5	4.5	1.1	2.2	2.2	0.0	14.6	14.6	0.0	100.
10	11.1	5.6	2.2	1.1	2.2	4.4	15.6	2.2	14.4	4.4	2.2	2.2	4.4	1.1	8.9	17.8	0.0	100.
11	11.1	4.4	2.2	0.0	1.1	4.4	13.3	3.3	8.9	8.9	6.7	0.0	5.6	3.3	12.2	14.4	0.0	100.
12	13.3	3.3	1.1	1.1	2.2	5.6	12.2	5.6	11.1	8.9	0.0	1.1	4.4	4.4	15.6	10.0	0.0	100.
13	10.1	4.5	1.1	2.2	0.0	5.6	11.2	5.6	9.0	7.9	2.2	2.2	3.4	7.9	13.5	13.5	0.0	100.
14	10.0	5.6	2.2	1.1	1.1	2.2	8.9	8.9	8.9	8.9	2.2	4.4	3.3	6.7	12.2	13.3	0.0	100.
15	12.2	1.1	1.1	2.2	1.1	2.2	15.6	2.2	7.8	8.9	3.3	3.3	8.9	3.3	12.2	14.4	0.0	100.
16	10.0	1.1	2.2	2.2	3.3	3.3	11.1	3.3	5.6	12.2	1.1	2.2	6.7	5.6	17.8	12.2	0.0	100.
17	11.1	4.4	4.4	1.1	3.3	1.1	7.8	3.3	11.1	8.9	4.4	0.0	2.2	7.8	15.6	13.3	0.0	100.
18	11.1	7.8	1.1	0.0	4.4	5.6	5.6	4.4	11.1	4.4	2.2	4.4	2.2	5.6	12.2	17.8	0.0	100.
19	12.2	6.7	1.1	1.1	2.2	5.6	5.6	6.7	8.9	6.7	5.6	1.1	1.1	4.4	11.1	20.0	0.0	100.
20	10.0	10.0	2.2	0.0	3.3	5.6	6.7	3.3	12.2	6.7	5.6	1.1	2.2	2.2	11.1	17.8	0.0	100.
21	8.9	4.4	3.3	4.4	2.2	2.2	7.8	4.4	13.3	5.6	4.4	2.2	4.4	2.2	13.3	16.7	0.0	100.
22	6.7	6.7	2.2	3.3	1.1	4.4	7.8	6.7	15.6	5.6	1.1	2.2	0.0	6.7	10.0	18.9	1.1	100.
23	13.3	3.3	4.4	5.6	0.0	2.2	6.7	8.9	14.4	7.8	0.0	2.2	0.0	4.4	14.4	12.2	0.0	100.
24	10.0	3.3	6.7	2.2	3.3	4.4	4.4	11.1	10.0	8.9	2.2	2.2	1.1	4.4	12.2	13.3	0.0	100.
ALL	11.1	4.4	2.2	1.4	2.1	3.9	9.5	5.6	10.5	7.0	3.3	1.9	3.2	4.9	13.4	15.5	0.1	100.

NUMBER OF OBS = 2153

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION APR-JUN 1995

PROGRAM: WINPER
VERSION: 2P

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	13.8	10.3	10.3	10.3	3.4	3.4	6.9	6.9	6.9	0.0	0.0	3.4	0.0	6.9	10.3	6.9	0.0	100.
2	20.7	3.4	3.4	10.3	3.4	6.9	6.9	6.9	6.9	3.4	3.4	6.9	0.0	3.4	6.9	6.9	0.0	100.
3	17.2	10.3	6.9	3.4	6.9	3.4	13.8	6.9	3.4	0.0	0.0	3.4	6.9	10.3	6.9	0.0	0.0	100.
4	10.3	17.2	3.4	6.9	6.9	0.0	6.9	10.3	10.3	0.0	0.0	0.0	6.9	6.9	10.3	3.4	0.0	100.
5	10.3	17.2	6.9	10.3	0.0	3.4	3.4	17.2	3.4	3.4	0.0	3.4	3.4	3.4	13.8	0.0	0.0	100.
6	6.9	10.3	6.9	10.3	6.9	0.0	6.9	13.8	3.4	6.9	0.0	0.0	6.9	3.4	13.8	3.4	0.0	100.
7	13.8	0.0	10.3	6.9	13.8	0.0	0.0	10.3	6.9	3.4	3.4	3.4	6.9	6.9	3.4	10.3	0.0	100.
8	20.7	10.3	0.0	3.4	13.8	6.9	3.4	6.9	6.9	0.0	3.4	3.4	6.9	3.4	3.4	6.9	0.0	100.
9	13.8	17.2	3.4	6.9	0.0	10.3	0.0	3.4	13.8	6.9	0.0	6.9	6.9	3.4	0.0	6.9	0.0	100.
10	6.9	17.2	17.2	0.0	0.0	0.0	10.3	6.9	13.8	0.0	0.0	6.9	3.4	10.3	0.0	6.9	0.0	100.
11	14.3	17.9	10.7	3.6	3.6	0.0	3.6	3.6	17.9	3.6	3.6	3.6	3.6	7.1	3.6	0.0	0.0	100.
12	3.6	0.0	17.9	17.9	3.6	0.0	0.0	7.1	7.1	7.1	7.1	3.6	3.6	10.7	3.6	7.1	0.0	100.
13	10.7	0.0	3.6	21.4	7.1	0.0	0.0	7.1	7.1	3.6	10.7	3.6	7.1	7.1	3.6	7.1	0.0	100.
14	6.9	3.4	10.3	13.8	3.4	3.4	0.0	6.9	3.4	10.3	10.3	3.4	3.4	10.3	3.4	6.9	0.0	100.
15	6.9	6.9	10.3	17.2	3.4	0.0	0.0	6.9	6.9	6.9	6.9	6.9	3.4	10.3	3.4	3.4	0.0	100.
16	3.4	3.4	13.8	10.3	10.3	0.0	3.4	3.4	6.9	6.9	6.9	3.4	6.9	13.8	0.0	6.9	0.0	100.
17	3.4	3.4	6.9	10.3	10.3	3.4	0.0	13.8	0.0	6.9	6.9	6.9	0.0	10.3	10.3	6.9	0.0	100.
18	6.9	3.4	10.3	13.8	3.4	6.9	3.4	6.9	3.4	3.4	6.9	0.0	10.3	3.4	10.3	6.9	0.0	100.
19	6.9	3.4	10.3	10.3	6.9	0.0	3.4	13.8	3.4	10.3	0.0	3.4	3.4	10.3	6.9	6.9	0.0	100.
20	3.4	0.0	17.2	10.3	3.4	0.0	6.9	6.9	3.4	13.8	3.4	0.0	3.4	10.3	6.9	10.3	0.0	100.
21	6.9	6.9	13.8	10.3	0.0	0.0	6.9	6.9	6.9	10.3	3.4	6.9	3.4	6.9	6.9	3.4	0.0	100.
22	10.3	6.9	13.8	0.0	6.9	0.0	6.9	10.3	3.4	3.4	10.3	0.0	0.0	13.8	3.4	10.3	0.0	100.
23	10.3	6.9	10.3	6.9	3.4	0.0	6.9	6.9	6.9	6.9	6.9	0.0	0.0	6.9	3.4	17.2	0.0	100.
24	27.6	6.9	10.3	3.4	3.4	6.9	3.4	10.3	0.0	3.4	3.4	0.0	3.4	3.4	13.8	0.0	0.0	100.
ALL	10.7	7.6	9.5	9.1	5.2	2.3	4.3	8.4	6.3	5.1	4.0	3.3	4.2	7.6	6.2	6.1	0.0	100.

NUMBER OF OBS = 693

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION APR-JUN 1995

PROGRAM: WINPER
VERSION: 2P

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	3.2	0.0	0.0	6.5	19.4	3.2	12.9	12.9	0.0	6.5	3.2	3.2	6.5	9.7	3.2	0.0	100.
2	12.9	6.5	0.0	3.2	12.9	3.2	12.9	6.5	6.5	6.5	0.0	3.2	0.0	6.5	9.7	9.7	0.0	100.
3	16.1	6.5	3.2	0.0	9.7	6.5	9.7	6.5	16.1	3.2	3.2	0.0	3.2	3.2	3.2	9.7	0.0	100.
4	9.7	9.7	0.0	0.0	3.2	16.1	6.5	12.9	9.7	0.0	3.2	0.0	3.2	9.7	12.9	3.2	0.0	100.
5	9.7	9.7	0.0	6.5	9.7	12.9	16.1	9.7	0.0	0.0	3.2	3.2	3.2	0.0	9.7	6.5	0.0	100.
6	9.7	6.5	3.2	0.0	3.2	12.9	12.9	16.1	9.7	6.5	0.0	0.0	3.2	0.0	6.5	9.7	0.0	100.
7	3.2	16.1	3.2	3.2	3.2	19.4	0.0	12.9	6.5	6.5	3.2	3.2	3.2	0.0	3.2	12.9	0.0	100.
8	12.9	12.9	6.5	0.0	0.0	19.4	9.7	9.7	12.9	0.0	0.0	0.0	0.0	6.5	3.2	6.5	0.0	100.
9	6.5	12.9	9.7	3.2	0.0	12.9	16.1	12.9	9.7	0.0	0.0	0.0	0.0	3.2	6.5	6.5	0.0	100.
10	9.7	16.1	9.7	0.0	3.2	16.1	9.7	3.2	12.9	6.5	0.0	0.0	0.0	3.2	3.2	6.5	0.0	100.
11	12.9	9.7	9.7	3.2	0.0	6.5	22.6	9.7	6.5	6.5	3.2	0.0	0.0	3.2	3.2	3.2	0.0	100.
12	6.5	9.7	12.9	0.0	6.5	3.2	16.1	9.7	6.5	9.7	3.2	0.0	0.0	3.2	6.5	6.5	0.0	100.
13	12.9	6.5	9.7	0.0	6.5	6.5	16.1	3.2	9.7	12.9	0.0	3.2	0.0	3.2	6.5	3.2	0.0	100.
14	3.2	0.0	9.7	3.2	3.2	3.2	22.6	6.5	12.9	6.5	0.0	6.5	0.0	3.2	3.2	16.1	0.0	100.
15	6.5	9.7	6.5	0.0	3.2	3.2	16.1	16.1	6.5	9.7	0.0	6.5	0.0	3.2	6.5	6.5	0.0	100.
16	6.5	6.5	9.7	3.2	3.2	6.5	6.5	16.1	16.1	3.2	3.2	6.5	3.2	3.2	3.2	3.2	0.0	100.
17	9.7	6.5	6.5	0.0	3.2	9.7	16.1	9.7	9.7	6.5	3.2	3.2	3.2	3.2	3.2	6.5	0.0	100.
18	3.2	9.7	3.2	3.2	0.0	16.1	9.7	9.7	9.7	12.9	0.0	6.5	0.0	3.2	6.5	6.5	0.0	100.
19	3.2	3.2	6.5	3.2	6.5	16.1	6.5	6.5	9.7	6.5	6.5	3.2	6.5	0.0	12.9	3.2	0.0	100.
20	3.2	3.2	9.7	0.0	0.0	25.8	3.2	12.9	0.0	3.2	6.5	3.2	9.7	3.2	12.9	3.2	0.0	100.
21	6.5	6.5	3.2	3.2	0.0	19.4	6.5	3.2	12.9	6.5	3.2	6.5	3.2	3.2	9.7	6.5	0.0	100.
22	6.5	6.5	3.2	0.0	6.5	9.7	12.9	0.0	9.7	12.9	0.0	6.5	6.5	3.2	6.5	9.7	0.0	100.
23	16.1	3.2	3.2	0.0	6.5	12.9	6.5	3.2	3.2	19.4	3.2	3.2	3.2	6.5	9.7	0.0	0.0	100.
24	6.5	9.7	3.2	0.0	0.0	12.9	9.7	9.7	9.7	0.0	3.2	9.7	3.2	12.9	6.5	3.2	0.0	100.
ALL	8.5	7.9	5.5	1.5	4.0	12.1	11.2	9.1	9.1	6.0	2.3	3.2	2.4	3.9	6.9	6.3	0.0	100.

NUMBER OF OBS = 744

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION APR-JUN 1995

PROGRAM: WINPER
VERSION: 2P

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	3.4	3.4	0.0	3.4	0.0	6.9	3.4	10.3	13.8	6.9	0.0	0.0	3.4	6.9	3.4	34.5	0.0	100.
2	3.4	3.4	0.0	3.4	3.4	3.4	0.0	20.7	6.9	10.3	3.4	0.0	0.0	6.9	20.7	13.8	0.0	100.
3	3.4	6.9	3.4	0.0	3.4	3.4	3.4	6.9	17.2	13.8	3.4	3.4	0.0	3.4	10.3	17.2	0.0	100.
4	6.9	3.4	0.0	3.4	3.4	3.4	6.9	17.2	17.2	10.3	3.4	0.0	0.0	3.4	6.9	13.8	0.0	100.
5	3.4	3.4	3.4	0.0	0.0	3.4	6.9	13.8	13.8	13.8	0.0	3.4	0.0	6.9	10.3	17.2	0.0	100.
6	16.7	0.0	0.0	6.7	0.0	3.3	3.3	20.0	10.0	6.7	0.0	0.0	3.3	6.7	6.7	16.7	0.0	100.
7	0.0	6.7	0.0	0.0	3.3	3.3	3.3	26.7	6.7	3.3	6.7	0.0	3.3	10.0	6.7	20.0	0.0	100.
8	10.0	3.3	0.0	0.0	6.7	0.0	10.0	10.0	16.7	6.7	0.0	0.0	3.3	6.7	6.7	20.0	0.0	100.
9	16.7	3.3	3.3	3.3	0.0	10.0	3.3	6.7	6.7	20.0	0.0	0.0	0.0	3.3	6.7	16.7	0.0	100.
10	16.7	3.3	3.3	0.0	3.3	10.0	6.7	3.3	6.7	23.3	0.0	0.0	0.0	3.3	3.3	16.7	0.0	100.
11	10.0	6.7	6.7	3.3	3.3	10.0	13.3	0.0	0.0	23.3	0.0	0.0	3.3	0.0	3.3	16.7	0.0	100.
12	13.3	3.3	3.3	0.0	3.3	0.0	23.3	3.3	6.7	16.7	0.0	0.0	0.0	3.3	3.3	20.0	0.0	100.
13	13.3	6.7	0.0	0.0	0.0	0.0	20.0	6.7	13.3	13.3	0.0	0.0	0.0	0.0	10.0	16.7	0.0	100.
14	13.3	0.0	0.0	0.0	0.0	3.3	13.3	6.7	20.0	6.7	3.3	0.0	0.0	0.0	10.0	23.3	0.0	100.
15	13.3	0.0	0.0	0.0	0.0	3.3	13.3	6.7	26.7	0.0	0.0	0.0	0.0	0.0	6.7	30.0	0.0	100.
16	13.3	0.0	3.3	0.0	3.3	3.3	10.0	10.0	23.3	3.3	0.0	0.0	0.0	0.0	3.3	26.7	0.0	100.
17	20.0	3.3	0.0	0.0	0.0	3.3	6.7	23.3	10.0	6.7	0.0	0.0	0.0	0.0	3.3	23.3	0.0	100.
18	20.0	3.3	0.0	0.0	0.0	0.0	10.0	16.7	16.7	6.7	0.0	0.0	0.0	3.3	3.3	20.0	0.0	100.
19	10.0	3.3	0.0	0.0	0.0	0.0	10.0	16.7	20.0	6.7	0.0	0.0	0.0	0.0	6.7	26.7	0.0	100.
20	6.9	0.0	3.4	3.4	0.0	0.0	10.3	13.8	24.1	3.4	0.0	0.0	0.0	0.0	6.9	27.6	0.0	100.
21	10.3	3.4	0.0	0.0	0.0	3.4	10.3	17.2	6.9	6.9	0.0	0.0	0.0	0.0	10.3	31.0	0.0	100.
22	6.7	0.0	3.3	0.0	0.0	0.0	6.7	13.3	16.7	6.7	3.3	0.0	0.0	3.3	16.7	23.3	0.0	100.
23	10.0	0.0	0.0	0.0	3.3	3.3	6.7	6.7	20.0	6.7	0.0	0.0	3.3	3.3	10.0	26.7	0.0	100.
24	3.4	0.0	0.0	3.4	0.0	3.4	6.9	3.4	20.7	6.9	3.4	3.4	0.0	3.4	13.8	27.6	0.0	100.
ALL	10.3	2.8	1.4	1.3	1.5	3.4	8.7	11.7	14.2	9.6	1.1	0.4	0.8	3.1	7.9	21.9	0.0	100.

NUMBER OF OBS = 712

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION APR-JUN 1995

PROGRAM: WINPER
VERSION: 2P

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	9.0	5.6	3.4	4.5	3.4	10.1	4.5	10.1	11.2	2.2	2.2	2.2	2.2	6.7	7.9	14.6	0.0	100.
2	12.4	4.5	1.1	5.6	6.7	4.5	6.7	11.2	6.7	6.7	2.2	3.4	0.0	5.6	12.4	10.1	0.0	100.
3	12.4	7.9	4.5	1.1	6.7	4.5	9.0	6.7	12.4	5.6	2.2	2.2	3.4	5.6	6.7	9.0	0.0	100.
4	9.0	10.1	1.1	3.4	4.5	6.7	6.7	13.5	12.4	3.4	2.2	0.0	3.4	6.7	10.1	6.7	0.0	100.
5	7.9	10.1	3.4	5.6	3.4	6.7	9.0	13.5	5.6	5.6	1.1	3.4	2.2	3.4	11.2	7.9	0.0	100.
6	11.1	5.6	3.3	5.6	3.3	5.6	7.8	16.7	7.8	6.7	0.0	0.0	4.4	3.3	8.9	10.0	0.0	100.
7	5.6	7.8	4.4	3.3	6.7	7.8	1.1	16.7	6.7	4.4	4.4	2.2	4.4	5.6	4.4	14.4	0.0	100.
8	14.4	8.9	2.2	1.1	6.7	8.9	7.8	8.9	12.2	2.2	1.1	1.1	3.3	5.6	4.4	11.1	0.0	100.
9	12.2	11.1	5.6	4.4	0.0	11.1	6.7	7.8	10.0	8.9	0.0	2.2	2.2	3.3	4.4	10.0	0.0	100.
10	11.1	12.2	10.0	0.0	2.2	8.9	8.9	4.4	11.1	10.0	0.0	2.2	1.1	5.6	2.2	10.0	0.0	100.
11	12.4	11.2	9.0	3.4	2.2	5.6	13.5	4.5	7.9	11.2	2.2	1.1	2.2	3.4	3.4	6.7	0.0	100.
12	7.9	4.5	11.2	5.6	4.5	1.1	13.5	6.7	6.7	11.2	3.4	1.1	1.1	5.6	4.5	11.2	0.0	100.
13	12.4	4.5	4.5	6.7	4.5	2.2	12.4	5.6	10.1	10.1	3.4	2.2	2.2	3.4	6.7	9.0	0.0	100.
14	7.8	1.1	6.7	5.6	2.2	3.3	12.2	6.7	12.2	7.8	4.4	3.3	1.1	4.4	5.6	15.6	0.0	100.
15	8.9	5.6	5.6	5.6	2.2	2.2	10.0	10.0	13.3	5.6	2.2	4.4	1.1	4.4	5.6	13.3	0.0	100.
16	7.8	3.3	8.9	4.4	5.6	3.3	6.7	10.0	15.6	4.4	3.3	3.3	3.3	5.6	2.2	12.2	0.0	100.
17	11.1	4.4	4.4	3.3	4.4	5.6	7.8	15.6	6.7	6.7	3.3	3.3	1.1	4.4	5.6	12.2	0.0	100.
18	10.0	5.6	4.4	5.6	1.1	7.8	7.8	11.1	10.0	7.8	2.2	2.2	3.3	3.3	6.7	11.1	0.0	100.
19	6.7	3.3	5.6	4.4	4.4	5.6	6.7	12.2	11.1	7.8	2.2	2.2	3.3	3.3	8.9	12.2	0.0	100.
20	4.5	1.1	10.1	4.5	1.1	9.0	6.7	11.2	9.0	6.7	3.4	1.1	4.5	4.5	9.0	13.5	0.0	100.
21	7.9	5.6	5.6	4.5	0.0	7.9	7.9	9.0	9.0	7.9	2.2	4.5	2.2	3.4	9.0	13.5	0.0	100.
22	7.8	4.4	6.7	0.0	4.4	3.3	8.9	7.8	10.0	7.8	4.4	2.2	2.2	6.7	8.9	14.4	0.0	100.
23	12.2	3.3	4.4	2.2	4.4	5.6	6.7	5.6	10.0	11.1	3.3	1.1	2.2	5.6	7.3	14.4	0.0	100.
24	12.4	5.6	4.5	2.2	1.1	7.9	6.7	7.9	10.1	3.4	3.4	4.5	2.2	6.7	11.2	10.1	0.0	100.
ALL	9.8	6.1	5.4	3.9	3.6	6.0	8.1	9.7	9.9	6.9	2.5	2.3	2.5	4.8	7.0	11.4	0.0	100.

NUMBER OF OBS = 2149

NPPD-COOPER NUCLEAR STATION 10-M WIND DIRECTION JAN-JUN 1995

PROGRAM: WINPER
VERSION: 2P

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	11.7	6.1	2.2	2.2	3.4	7.3	6.1	8.9	9.5	5.6	2.8	1.7	2.8	3.9	9.5	16.2	0.0	100.
2	11.2	5.0	1.1	3.9	3.9	3.9	6.7	9.5	8.4	6.1	3.4	3.9	1.1	5.0	13.4	12.8	0.6	100.
3	11.2	6.1	3.4	0.6	4.5	2.8	8.4	5.0	13.4	5.6	4.5	2.8	2.8	6.7	10.6	11.2	0.6	100.
4	10.1	6.1	1.7	2.8	2.8	5.6	6.1	9.5	11.7	3.9	4.5	0.0	3.4	7.3	13.4	11.7	0.0	100.
5	10.1	6.1	2.2	3.9	3.4	5.6	8.4	9.5	6.7	5.6	2.8	2.2	1.7	6.1	12.8	12.8	0.0	100.
6	10.6	4.5	1.7	2.8	2.8	5.6	10.6	10.1	7.8	5.6	1.7	0.0	4.5	5.0	13.4	13.4	0.0	100.
7	9.0	5.1	2.2	1.7	5.1	6.2	5.6	11.2	8.4	6.7	3.4	2.2	3.9	4.5	8.4	16.3	0.0	100.
8	12.4	6.2	2.2	0.6	3.9	6.7	11.2	9.6	9.6	3.9	1.7	0.6	3.4	6.2	8.4	13.5	0.0	100.
9	12.8	7.3	5.6	2.2	1.1	7.3	10.1	6.7	11.7	6.7	0.6	2.2	2.2	1.7	9.5	12.3	0.0	100.
10	11.1	8.9	6.1	0.6	2.2	6.7	12.2	3.3	12.8	7.2	1.1	2.2	2.8	3.3	5.6	13.9	0.0	100.
11	11.7	7.8	5.6	1.7	1.7	5.0	13.4	3.9	8.4	10.1	4.5	0.6	3.9	3.4	7.8	10.6	0.0	100.
12	10.6	3.9	6.1	3.4	3.4	3.4	12.8	6.1	8.9	10.1	1.7	1.1	2.8	5.0	10.1	10.6	0.0	100.
13	11.2	4.5	2.8	4.5	2.2	3.9	11.8	5.6	9.6	9.0	2.8	2.2	2.8	5.6	10.1	11.2	0.0	100.
14	8.9	3.3	4.4	3.3	1.7	2.8	10.6	7.8	10.6	8.3	3.3	3.9	2.2	5.6	8.9	14.4	0.0	100.
15	10.6	3.3	3.3	3.9	1.7	2.2	12.8	6.1	10.6	7.2	2.8	3.9	5.0	3.9	8.9	13.9	0.0	100.
16	8.9	2.2	5.6	3.3	4.4	3.3	8.9	6.7	10.6	8.3	2.2	2.8	5.0	5.6	10.0	12.2	0.0	100.
17	11.1	4.4	4.4	2.2	3.9	3.3	7.8	9.4	8.9	7.8	3.9	1.7	1.7	6.1	10.6	12.8	0.0	100.
18	10.6	6.7	2.8	2.8	2.8	6.7	6.7	7.8	10.6	6.1	2.2	3.3	2.8	4.4	9.4	14.4	0.0	100.
19	9.4	5.0	3.3	2.8	3.3	5.6	6.1	9.4	10.0	7.2	3.9	1.7	2.2	3.9	10.0	16.1	0.0	100.
20	7.3	5.6	6.1	2.2	2.2	7.3	6.7	7.3	10.6	6.7	4.5	1.1	3.4	3.4	10.1	15.6	0.0	100.
21	8.4	5.0	4.5	4.5	1.1	5.0	7.8	6.7	11.2	6.7	3.4	3.4	3.4	2.8	11.2	15.1	0.0	100.
22	7.2	5.6	4.4	1.7	2.8	3.9	8.3	7.2	12.8	6.7	2.8	2.2	1.1	6.7	9.4	16.7	0.6	100.
23	12.8	3.3	4.4	3.9	2.2	3.9	6.7	7.2	12.2	9.4	1.7	1.7	1.1	5.0	11.1	13.3	0.0	100.
24	11.2	4.5	5.6	2.2	2.2	6.1	5.6	9.5	10.1	6.1	2.8	3.4	1.7	5.6	11.7	11.7	0.0	100.
ALL	10.4	5.3	3.8	2.6	2.9	5.0	8.8	7.7	10.2	6.9	2.9	2.1	2.8	4.9	10.2	13.5	0.1	100.

NUMBER OF OBS = 4302

Wind Direction Frequencies

100-Meter Level

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-MAR 1995

PROGRAM: WINPER
VERSION: 2P

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	3.2	9.7	6.5	0.0	0.0	6.5	6.5	9.7	3.2	3.2	9.7	0.0	6.5	0.0	19.4	16.1	0.0	100.
2	12.9	0.0	3.2	0.0	6.5	3.2	3.2	9.7	6.5	3.2	3.2	3.2	3.2	6.5	16.1	19.4	0.0	100.
3	12.9	0.0	0.0	3.2	0.0	3.2	16.1	3.2	6.5	3.2	0.0	3.2	3.2	6.5	29.0	9.7	0.0	100.
4	12.9	3.2	0.0	3.2	0.0	6.5	6.5	6.5	6.5	3.2	3.2	3.2	3.2	6.5	16.1	19.4	0.0	100.
5	6.5	6.5	0.0	3.2	0.0	6.5	12.9	3.2	3.2	3.2	3.2	0.0	6.5	6.5	12.9	25.8	0.0	100.
6	6.5	6.5	0.0	0.0	3.2	3.2	16.1	3.2	6.5	0.0	3.2	0.0	6.5	12.9	6.5	25.8	0.0	100.
7	10.0	0.0	6.7	0.0	0.0	6.7	13.3	6.7	6.7	0.0	3.3	0.0	6.7	10.0	6.7	23.3	0.0	100.
8	13.3	3.3	3.3	0.0	0.0	6.7	20.0	3.3	6.7	0.0	3.3	0.0	6.7	6.7	13.3	13.3	0.0	100.
9	10.0	3.3	3.3	0.0	0.0	3.3	23.3	6.7	3.3	0.0	3.3	0.0	6.7	6.7	13.3	16.7	0.0	100.
10	9.7	3.2	3.2	0.0	3.2	6.5	19.4	3.2	3.2	0.0	0.0	0.0	12.9	9.7	9.7	16.1	0.0	100.
11	9.7	3.2	3.2	3.2	0.0	3.2	12.9	9.7	6.5	0.0	3.2	0.0	6.5	6.5	19.4	12.9	0.0	100.
12	9.7	6.5	0.0	0.0	3.2	3.2	9.7	9.7	3.2	0.0	6.5	3.2	6.5	6.5	22.6	9.7	0.0	100.
13	3.2	9.7	0.0	0.0	3.2	0.0	12.9	9.7	3.2	6.5	3.2	0.0	6.5	9.7	16.1	16.1	0.0	100.
14	9.7	3.2	6.5	0.0	3.2	3.2	6.5	9.7	6.5	6.5	0.0	3.2	6.5	9.7	16.1	9.7	0.0	100.
15	9.7	6.5	0.0	3.2	0.0	0.0	12.9	6.5	3.2	9.7	0.0	3.2	9.7	6.5	12.9	16.1	0.0	100.
16	9.7	3.2	0.0	3.2	0.0	3.2	9.7	6.5	3.2	9.7	0.0	3.2	3.2	9.7	22.6	12.9	0.0	100.
17	0.0	6.5	6.5	0.0	3.2	0.0	6.5	9.7	9.7	3.2	0.0	0.0	6.5	6.5	22.6	19.4	0.0	100.
18	9.7	6.5	0.0	6.5	0.0	3.2	6.5	9.7	6.5	3.2	0.0	3.2	3.2	3.2	16.1	19.4	3.2	100.
19	6.5	9.7	0.0	9.7	0.0	0.0	9.7	9.7	3.2	6.5	3.2	3.2	6.5	0.0	12.9	19.4	0.0	100.
20	9.7	6.5	0.0	6.5	0.0	3.2	12.9	3.2	6.5	9.7	0.0	3.2	3.2	3.2	12.9	19.4	0.0	100.
21	12.9	3.2	6.5	3.2	0.0	0.0	12.9	6.5	3.2	6.5	6.5	0.0	3.2	9.7	6.5	19.4	0.0	100.
22	3.2	12.9	0.0	0.0	3.2	3.2	12.9	6.5	6.5	0.0	9.7	0.0	3.2	9.7	6.5	22.6	0.0	100.
23	6.5	6.5	0.0	3.2	3.2	3.2	9.7	9.7	3.2	6.5	6.5	3.2	0.0	3.2	12.9	22.6	0.0	100.
24	6.5	3.2	6.5	3.2	0.0	3.2	6.5	9.7	6.5	6.5	6.5	6.5	0.0	0.0	16.1	19.4	0.0	100.
ALL	8.5	5.1	2.3	2.2	1.3	3.4	11.6	7.2	5.1	3.8	3.2	1.8	5.3	6.5	15.0	17.7	0.1	100.

NUMBER OF OBS = 741

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-MAR 1995

PROGRAM: WINPER
VERSION: 2P

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	14.3	3.6	0.0	3.6	0.0	0.0	7.1	3.6	0.0	10.7	21.4	3.6	0.0	0.0	14.3	17.9	0.0	100.
2	14.3	3.6	0.0	0.0	3.6	0.0	3.6	3.6	0.0	0.0	28.6	3.6	3.6	3.6	7.1	21.4	3.6	100.
3	17.9	0.0	0.0	0.0	0.0	3.6	3.6	0.0	0.0	7.1	21.4	3.6	3.6	10.7	14.3	14.3	0.0	100.
4	14.3	7.1	0.0	0.0	0.0	3.6	3.6	0.0	0.0	10.7	14.3	0.0	3.6	7.1	17.9	17.9	0.0	100.
5	14.3	0.0	0.0	3.6	0.0	0.0	10.7	0.0	3.6	7.1	10.7	0.0	0.0	3.6	17.9	25.0	3.6	100.
6	11.1	0.0	0.0	0.0	0.0	0.0	7.4	11.1	0.0	7.4	7.4	3.7	0.0	3.7	11.1	33.3	3.7	100.
7	14.8	0.0	0.0	0.0	0.0	0.0	7.4	7.4	3.7	14.8	3.7	3.7	0.0	0.0	18.5	25.9	0.0	100.
8	18.5	0.0	0.0	0.0	3.7	0.0	3.7	0.0	7.4	7.4	14.8	3.7	3.7	0.0	14.8	22.2	0.0	100.
9	3.6	10.7	7.1	0.0	0.0	0.0	3.6	0.0	10.7	10.7	10.7	3.6	0.0	7.1	7.1	25.0	0.0	100.
10	7.1	7.1	3.6	3.6	3.6	3.6	3.6	0.0	10.7	7.1	17.9	0.0	0.0	3.6	3.6	25.0	0.0	100.
11	10.7	7.1	7.1	0.0	0.0	0.0	7.1	0.0	10.7	17.9	7.1	3.6	0.0	3.6	3.6	17.9	3.6	100.
12	17.9	3.6	3.6	0.0	0.0	7.1	7.1	7.1	7.1	7.1	14.3	0.0	3.6	0.0	3.6	17.9	0.0	100.
13	14.3	0.0	3.6	0.0	0.0	3.6	17.9	3.6	7.1	10.7	7.1	0.0	7.1	0.0	3.6	21.4	0.0	100.
14	7.1	0.0	3.6	3.6	3.6	0.0	10.7	7.1	7.1	10.7	7.1	7.1	0.0	0.0	17.9	14.3	0.0	100.
15	10.7	0.0	3.6	0.0	0.0	10.7	10.7	3.6	0.0	14.3	10.7	0.0	3.6	7.1	7.1	17.9	0.0	100.
16	10.7	0.0	0.0	3.6	7.1	7.1	3.6	7.1	0.0	14.3	3.6	3.6	10.7	0.0	10.7	17.9	0.0	100.
17	14.3	0.0	0.0	3.6	7.1	3.6	3.6	7.1	0.0	14.3	10.7	3.6	0.0	3.6	14.3	14.3	0.0	100.
18	7.1	7.1	3.6	0.0	3.6	0.0	7.1	3.6	7.1	17.9	0.0	7.1	0.0	0.0	10.7	25.0	0.0	100.
19	10.7	3.6	3.6	0.0	0.0	7.1	3.6	3.6	3.6	17.9	7.1	3.6	3.6	0.0	0.0	32.1	0.0	100.
20	10.7	14.3	0.0	0.0	0.0	7.1	3.6	7.1	0.0	17.9	7.1	3.6	3.6	0.0	3.6	17.9	3.6	100.
21	7.1	10.7	3.6	3.6	7.1	0.0	3.6	10.7	0.0	17.9	7.1	0.0	3.6	0.0	10.7	14.3	0.0	100.
22	10.7	10.7	3.6	0.0	0.0	3.6	3.6	10.7	3.6	14.3	10.7	0.0	0.0	3.6	7.1	17.9	0.0	100.
23	14.3	14.3	0.0	0.0	3.6	0.0	3.6	7.1	0.0	21.4	10.7	0.0	0.0	0.0	7.1	17.9	0.0	100.
24	28.6	0.0	3.6	0.0	0.0	0.0	7.1	3.6	0.0	10.7	25.0	0.0	0.0	0.0	10.7	10.7	0.0	100.
ALL	12.7	4.3	2.1	1.0	1.8	2.5	6.1	4.5	3.4	12.1	11.7	2.4	2.1	2.4	9.9	20.2	0.7	100.

NUMBER OF OBS = 669

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-MAR 1995

PROGRAM: WINPER
VERSION: 2P

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	6.3	12.5	6.3	6.3	0.0	12.5	6.3	0.0	31.3	6.3	0.0	0.0	0.0	0.0	0.0	12.5	0.0	100.
2	12.5	6.3	6.3	0.0	12.5	0.0	6.3	0.0	25.0	12.5	0.0	0.0	0.0	0.0	6.3	6.3	6.3	100.
3	12.5	12.5	6.3	0.0	0.0	6.3	6.3	6.3	18.8	6.3	6.3	0.0	0.0	6.3	0.0	12.5	0.0	100.
4	18.8	12.5	0.0	0.0	0.0	6.3	6.3	6.3	18.8	6.3	0.0	6.3	0.0	6.3	0.0	12.5	0.0	100.
5	18.8	12.5	0.0	0.0	0.0	0.0	18.8	6.3	12.5	6.3	0.0	6.3	0.0	0.0	6.3	12.5	0.0	100.
6	12.5	6.3	12.5	0.0	0.0	0.0	12.5	18.8	0.0	12.5	6.3	0.0	0.0	0.0	6.3	12.5	0.0	100.
7	12.5	6.3	12.5	0.0	0.0	0.0	12.5	12.5	12.5	12.5	0.0	0.0	0.0	0.0	6.3	12.5	0.0	100.
8	12.5	6.3	12.5	0.0	0.0	0.0	12.5	0.0	25.0	12.5	0.0	0.0	0.0	0.0	0.0	18.8	0.0	100.
9	12.5	12.5	0.0	6.3	6.3	0.0	12.5	0.0	12.5	18.8	0.0	6.3	0.0	0.0	0.0	12.5	0.0	100.
10	12.5	12.5	0.0	6.3	0.0	6.3	6.3	6.3	18.8	12.5	0.0	0.0	0.0	0.0	6.3	12.5	0.0	100.
11	18.8	12.5	0.0	6.3	0.0	0.0	6.3	6.3	6.3	18.8	6.3	0.0	0.0	6.3	0.0	12.5	0.0	100.
12	18.8	12.5	6.3	6.3	0.0	0.0	6.3	6.3	18.8	12.5	0.0	0.0	0.0	0.0	12.5	0.0	0.0	100.
13	20.0	13.3	6.7	6.7	0.0	0.0	6.7	0.0	20.0	13.3	0.0	0.0	0.0	0.0	13.3	0.0	0.0	100.
14	25.0	12.5	6.3	0.0	0.0	0.0	6.3	0.0	18.8	12.5	6.3	0.0	0.0	0.0	0.0	12.5	0.0	100.
15	20.0	6.7	13.3	0.0	0.0	0.0	6.7	0.0	20.0	13.3	0.0	0.0	0.0	0.0	6.7	13.3	0.0	100.
16	6.7	6.7	6.7	0.0	0.0	6.7	6.7	0.0	26.7	6.7	0.0	0.0	0.0	0.0	20.0	13.3	0.0	100.
17	20.0	13.3	6.7	6.7	0.0	0.0	6.7	0.0	20.0	13.3	0.0	0.0	0.0	0.0	6.7	6.7	0.0	100.
18	13.3	6.7	6.7	0.0	0.0	20.0	0.0	0.0	26.7	13.3	0.0	0.0	0.0	0.0	6.7	6.7	0.0	100.
19	6.7	20.0	0.0	6.7	0.0	6.7	6.7	0.0	26.7	6.7	0.0	0.0	0.0	0.0	0.0	13.3	6.7	100.
20	6.7	13.3	6.7	0.0	0.0	20.0	6.7	6.7	20.0	6.7	0.0	0.0	0.0	0.0	0.0	13.3	0.0	100.
21	6.7	6.7	6.7	6.7	0.0	6.7	6.7	13.3	20.0	13.3	0.0	0.0	0.0	0.0	0.0	13.3	0.0	100.
22	13.3	0.0	6.7	6.7	6.7	6.7	6.7	6.7	20.0	13.3	0.0	0.0	0.0	0.0	0.0	13.3	0.0	100.
23	6.7	6.7	0.0	13.3	6.7	6.7	6.7	0.0	26.7	13.3	0.0	0.0	0.0	0.0	6.7	6.7	0.0	100.
24	6.7	0.0	13.3	6.7	6.7	6.7	6.7	0.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	13.3	0.0	100.
ALL	13.4	9.7	5.9	3.5	1.6	4.6	7.8	4.0	20.1	11.0	1.1	0.8	0.0	0.8	4.3	11.0	0.5	100.

NUMBER OF OBS = 373

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-MAR 1995

PROGRAM: WINPER
VERSION: 2P

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	8.0	8.0	4.0	2.7	0.0	5.3	6.7	5.3	8.0	6.7	12.0	1.3	2.7	0.0	13.3	16.0	0.0	100.
2	13.3	2.7	2.7	0.0	6.7	1.3	4.0	5.3	8.0	4.0	12.0	2.7	2.7	4.0	10.7	17.3	2.7	100.
3	14.7	2.7	1.3	1.3	0.0	4.0	9.3	2.7	6.7	5.3	9.3	2.7	2.7	8.0	17.3	12.0	0.0	100.
4	14.7	6.7	0.0	1.3	0.0	5.3	5.3	4.0	6.7	6.7	6.7	2.7	2.7	6.7	13.3	17.3	0.0	100.
5	12.0	5.3	0.0	2.7	0.0	2.7	13.3	2.7	5.3	5.3	5.3	1.3	2.7	4.0	13.3	22.7	1.3	100.
6	9.5	4.1	2.7	0.0	1.4	1.4	12.2	9.5	2.7	5.4	5.4	1.4	2.7	6.8	8.1	25.7	1.4	100.
7	12.3	1.4	5.5	0.0	0.0	2.7	11.0	8.2	6.8	8.2	2.7	1.4	2.7	4.1	11.0	21.9	0.0	100.
8	15.1	2.7	4.1	0.0	1.4	2.7	12.3	1.4	11.0	5.5	6.8	1.4	4.1	2.7	11.0	17.8	0.0	100.
9	8.1	8.1	4.1	1.4	1.4	1.4	13.5	2.7	8.1	8.1	5.4	2.7	2.7	5.4	8.1	18.9	0.0	100.
10	9.3	4.7	2.7	2.7	2.7	5.3	10.7	2.7	9.3	5.3	6.7	0.0	5.3	5.3	6.7	18.7	0.0	100.
11	12.0	6.7	4.0	2.7	0.0	1.3	9.3	5.3	8.0	10.7	5.3	1.3	2.7	5.3	9.3	14.7	1.3	100.
12	14.7	6.7	2.7	1.3	1.3	4.0	8.0	8.0	8.0	5.3	8.0	1.3	4.0	2.7	13.3	10.7	0.0	100.
13	10.8	6.8	2.7	1.4	1.4	1.4	13.5	5.4	8.1	9.5	4.1	0.0	5.4	4.1	10.8	14.9	0.0	100.
14	12.0	4.0	5.3	1.3	2.7	1.3	8.0	6.7	9.3	9.3	4.0	4.0	2.7	4.0	13.3	12.0	0.0	100.
15	12.2	4.1	4.1	1.4	0.0	4.1	10.8	4.1	5.4	12.2	4.1	1.4	5.4	5.4	9.5	16.2	0.0	100.
16	9.5	2.7	1.4	2.7	2.7	5.4	6.8	5.4	6.8	10.8	1.4	2.7	5.4	4.1	17.6	14.9	0.0	100.
17	9.5	5.4	4.1	2.7	4.1	1.4	5.4	6.8	8.1	9.5	4.1	1.4	2.7	4.1	16.2	14.9	0.0	100.
18	9.5	6.8	2.7	2.7	1.4	5.4	5.4	5.4	10.8	10.8	0.0	4.1	1.4	1.4	12.2	18.9	1.4	100.
19	8.1	9.5	1.4	5.4	0.0	4.1	6.8	5.4	8.1	10.8	4.1	2.7	4.1	0.0	5.4	23.0	1.4	100.
20	9.5	10.8	1.4	2.7	0.0	8.1	8.1	5.4	6.8	12.2	2.7	2.7	2.7	1.4	6.8	17.6	1.4	100.
21	9.5	6.8	5.4	4.1	2.7	1.4	8.1	9.5	5.4	12.2	5.4	0.0	2.7	4.1	6.8	16.2	0.0	100.
22	8.1	9.5	2.7	1.4	2.7	4.1	8.1	8.1	8.1	8.1	8.1	0.0	1.4	5.4	5.4	18.9	0.0	100.
23	9.5	9.5	0.0	4.1	4.1	2.7	6.8	6.8	6.8	13.5	6.8	1.4	0.0	1.4	9.5	17.6	0.0	100.
24	14.9	1.4	6.8	2.7	1.4	2.7	6.8	5.4	10.8	6.8	12.2	2.7	0.0	0.0	10.8	14.9	0.0	100.
ALL	11.1	5.8	3.0	2.0	1.6	3.3	8.7	5.5	7.6	8.4	5.9	1.8	3.0	3.8	10.8	17.2	0.4	100.

NUMBER OF OBS = 1783

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION APR-JUN 1995

PROGRAM: WINPER
VERSION: 2P

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	0.0	0.0	0.0	20.0	0.0	20.0	0.0	0.0	20.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
2	0.0	0.0	0.0	20.0	0.0	20.0	0.0	0.0	20.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
3	0.0	0.0	0.0	0.0	20.0	20.0	0.0	0.0	20.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
4	0.0	0.0	0.0	0.0	20.0	20.0	0.0	20.0	0.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
5	0.0	0.0	0.0	0.0	20.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
6	0.0	0.0	0.0	0.0	20.0	20.0	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
7	0.0	0.0	0.0	0.0	20.0	40.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
8	0.0	20.0	0.0	0.0	0.0	40.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
9	0.0	0.0	20.0	0.0	0.0	20.0	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
10	0.0	20.0	0.0	0.0	0.0	0.0	40.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	100.
11	20.0	0.0	0.0	0.0	0.0	20.0	20.0	0.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	100.
12	20.0	0.0	0.0	0.0	20.0	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	100.
13	20.0	0.0	0.0	0.0	0.0	40.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	0.0	100.
14	16.7	0.0	0.0	0.0	0.0	33.3	0.0	0.0	16.7	0.0	16.7	0.0	0.0	16.7	0.0	0.0	0.0	100.
15	16.7	0.0	0.0	0.0	16.7	16.7	0.0	16.7	0.0	16.7	0.0	0.0	0.0	16.7	0.0	0.0	0.0	100.
16	16.7	0.0	0.0	0.0	16.7	16.7	0.0	16.7	0.0	16.7	0.0	0.0	0.0	16.7	0.0	0.0	0.0	100.
17	16.7	0.0	0.0	0.0	33.3	0.0	0.0	16.7	0.0	16.7	0.0	0.0	0.0	16.7	0.0	0.0	0.0	100.
18	16.7	0.0	0.0	0.0	33.3	0.0	16.7	0.0	0.0	16.7	0.0	0.0	16.7	0.0	0.0	0.0	0.0	100.
19	16.7	0.0	0.0	0.0	33.3	0.0	16.7	0.0	16.7	0.0	0.0	0.0	16.7	0.0	0.0	0.0	0.0	100.
20	0.0	0.0	0.0	0.0	33.3	0.0	0.0	16.7	16.7	0.0	16.7	0.0	0.0	0.0	0.0	16.7	0.0	100.
21	0.0	0.0	0.0	0.0	33.3	0.0	0.0	16.7	16.7	16.7	0.0	0.0	0.0	0.0	0.0	16.7	0.0	100.
22	0.0	0.0	0.0	0.0	33.3	0.0	16.7	0.0	0.0	16.7	0.0	0.0	0.0	16.7	0.0	16.7	0.0	100.
23	0.0	0.0	16.7	0.0	33.3	0.0	16.7	0.0	0.0	16.7	0.0	0.0	0.0	0.0	0.0	16.7	0.0	100.
24	0.0	0.0	0.0	0.0	33.3	0.0	33.3	0.0	0.0	16.7	0.0	0.0	0.0	0.0	0.0	16.7	0.0	100.
ALL	6.9	1.5	1.5	1.5	18.3	13.7	9.2	6.1	7.6	13.0	1.5	0.0	1.5	6.1	7.6	3.8	0.0	100.

NUMBER OF OBS = 131

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION APR-JUN 1995

PROGRAM: WINPER
VERSION: 2P

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	10.0	10.0	0.0	0.0	0.0	20.0	40.0	10.0	0.0	0.0	0.0	0.0	0.0	10.0	0.0	0.0	0.0	100.
2	10.0	0.0	0.0	0.0	0.0	30.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0	0.0	100.
3	20.0	10.0	0.0	10.0	0.0	20.0	30.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
4	10.0	20.0	0.0	10.0	0.0	10.0	40.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
5	10.0	20.0	10.0	0.0	0.0	20.0	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
6	0.0	0.0	11.1	11.1	22.2	11.1	33.3	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
7	0.0	22.2	0.0	11.1	11.1	11.1	44.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
8	0.0	0.0	11.1	11.1	11.1	11.1	22.2	22.2	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
9	0.0	0.0	11.1	11.1	0.0	22.2	11.1	11.1	22.2	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	100.
10	0.0	0.0	33.3	0.0	0.0	0.0	44.4	0.0	11.1	0.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	100.
11	0.0	0.0	22.2	11.1	0.0	11.1	22.2	11.1	11.1	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
12	0.0	11.1	22.2	0.0	0.0	11.1	22.2	11.1	11.1	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.
13	0.0	11.1	22.2	0.0	0.0	11.1	22.2	0.0	11.1	11.1	11.1	0.0	0.0	0.0	0.0	0.0	0.0	100.
14	11.1	0.0	11.1	0.0	11.1	0.0	33.3	11.1	11.1	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	100.
15	0.0	11.1	11.1	0.0	11.1	0.0	11.1	44.4	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	100.
16	0.0	11.1	11.1	0.0	11.1	0.0	11.1	33.3	11.1	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	100.
17	11.1	11.1	0.0	0.0	0.0	11.1	22.2	33.3	0.0	0.0	0.0	0.0	11.1	0.0	0.0	0.0	0.0	100.
18	11.1	11.1	0.0	0.0	0.0	11.1	22.2	33.3	0.0	0.0	0.0	0.0	0.0	11.1	0.0	0.0	0.0	100.
19	0.0	11.1	0.0	0.0	0.0	11.1	33.3	22.2	0.0	0.0	0.0	0.0	0.0	11.1	0.0	11.1	0.0	100.
20	0.0	11.1	0.0	0.0	0.0	22.2	22.2	22.2	0.0	0.0	0.0	0.0	0.0	11.1	0.0	11.1	0.0	100.
21	0.0	11.1	0.0	0.0	0.0	11.1	44.4	11.1	0.0	0.0	0.0	0.0	0.0	0.0	11.1	11.1	0.0	100.
22	0.0	11.1	0.0	0.0	0.0	0.0	44.4	22.2	0.0	0.0	0.0	0.0	0.0	11.1	0.0	11.1	0.0	100.
23	0.0	11.1	0.0	0.0	0.0	0.0	44.4	22.2	0.0	0.0	0.0	0.0	0.0	11.1	0.0	11.1	0.0	100.
24	0.0	0.0	11.1	0.0	0.0	0.0	44.4	11.1	11.1	0.0	0.0	0.0	0.0	11.1	0.0	11.1	0.0	100.
ALL	4.1	8.6	7.7	3.2	3.2	10.9	31.2	14.9	4.5	1.4	0.9	1.4	0.9	3.2	0.9	3.2	0.0	100.

NUMBER OF OBS = 221

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION APR-JUN 1995

PROGRAM: WINPER
VERSION: 2P

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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.
ALL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.

NUMBER OF OBS = 0

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION APR-JUN 1995

PROGRAM: WINPER
VERSION: 2P

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	6.7	6.7	0.0	6.7	0.0	20.0	26.7	6.7	6.7	6.7	0.0	0.0	0.0	6.7	6.7	0.0	0.0	100.
2	6.7	0.0	0.0	6.7	0.0	26.7	26.7	0.0	6.7	6.7	0.0	0.0	0.0	0.0	13.3	6.7	0.0	100.
3	13.3	6.7	0.0	6.7	6.7	20.0	20.0	6.7	6.7	6.7	0.0	0.0	0.0	0.0	6.7	0.0	0.0	100.
4	6.7	13.3	0.0	6.7	6.7	13.3	26.7	13.3	0.0	6.7	0.0	0.0	0.0	0.0	6.7	0.0	0.0	100.
5	6.7	13.3	6.7	0.0	6.7	13.3	33.3	6.7	0.0	6.7	0.0	0.0	0.0	0.0	6.7	0.0	0.0	100.
6	0.0	0.0	7.1	7.1	21.4	14.3	28.6	7.1	0.0	7.1	0.0	0.0	0.0	0.0	7.1	0.0	0.0	100.
7	0.0	14.3	0.0	7.1	14.3	21.4	28.6	0.0	7.1	0.0	0.0	0.0	0.0	0.0	7.1	0.0	0.0	100.
8	0.0	7.1	7.1	7.1	7.1	21.4	14.3	14.3	7.1	7.1	0.0	0.0	0.0	0.0	7.1	0.0	0.0	100.
9	0.0	0.0	14.3	7.1	0.0	21.4	14.3	7.1	14.3	7.1	0.0	7.1	0.0	0.0	7.1	0.0	0.0	100.
10	0.0	7.1	21.4	0.0	0.0	0.0	42.9	0.0	7.1	7.1	7.1	0.0	0.0	0.0	7.1	0.0	0.0	100.
11	7.1	0.0	14.3	7.1	0.0	14.3	21.4	7.1	14.3	7.1	0.0	0.0	0.0	7.1	0.0	0.0	0.0	100.
12	7.1	7.1	14.3	0.0	7.1	14.3	14.3	7.1	14.3	7.1	0.0	0.0	0.0	7.1	0.0	0.0	0.0	100.
13	7.1	7.1	14.3	0.0	0.0	21.4	14.3	7.1	7.1	7.1	7.1	0.0	0.0	7.1	0.0	0.0	0.0	100.
14	13.3	0.0	6.7	0.0	6.7	13.3	20.0	6.7	13.3	0.0	6.7	6.7	0.0	6.7	0.0	0.0	0.0	100.
15	6.7	6.7	6.7	0.0	13.3	6.7	6.7	33.3	0.0	6.7	0.0	6.7	0.0	6.7	0.0	0.0	0.0	100.
16	6.7	6.7	6.7	0.0	13.3	6.7	6.7	26.7	6.7	6.7	0.0	0.0	6.7	6.7	0.0	0.0	0.0	100.
17	13.3	6.7	0.0	0.0	13.3	6.7	13.3	26.7	0.0	6.7	0.0	0.0	6.7	6.7	0.0	0.0	0.0	100.
18	13.3	6.7	0.0	0.0	13.3	6.7	20.0	20.0	0.0	6.7	0.0	0.0	6.7	6.7	0.0	0.0	0.0	100.
19	6.7	6.7	0.0	0.0	13.3	6.7	26.7	13.3	6.7	0.0	0.0	0.0	6.7	6.7	0.0	6.7	0.0	100.
20	0.0	6.7	0.0	0.0	13.3	13.3	13.3	20.0	6.7	0.0	6.7	0.0	0.0	6.7	0.0	13.3	0.0	100.
21	0.0	6.7	0.0	0.0	13.3	6.7	26.7	13.3	6.7	6.7	0.0	0.0	0.0	0.0	6.7	13.3	0.0	100.
22	0.0	6.7	0.0	0.0	13.3	0.0	33.3	13.3	0.0	6.7	0.0	0.0	0.0	13.3	0.0	13.3	0.0	100.
23	0.0	6.7	6.7	0.0	13.3	0.0	33.3	13.3	0.0	6.7	0.0	0.0	0.0	6.7	0.0	13.3	0.0	100.
24	0.0	0.0	6.7	0.0	13.3	0.0	40.0	6.7	6.7	6.7	0.0	0.0	0.0	6.7	0.0	13.3	0.0	100.
ALL	5.1	6.0	5.4	2.6	8.8	11.9	23.0	11.6	5.7	5.7	1.1	0.9	1.1	4.3	3.4	3.4	0.0	100.

NUMBER OF OBS = 352

NPPD-COOPER NUCLEAR STATION 100-M WIND DIRECTION JAN-JUN 1995

PROGRAM: WINPER
VERSION: 2P

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	7.8	3.3	3.3	0.0	7.8	10.0	5.6	7.8	6.7	10.0	1.1	2.2	1.1	12.2	13.3	0.0	100.
2	12.2	2.2	2.2	1.1	5.6	5.6	7.8	4.4	7.8	4.4	10.0	2.2	2.2	3.3	11.1	15.6	2.2	100.
3	14.4	3.3	1.1	2.2	1.1	6.7	11.1	3.3	6.7	5.6	7.8	2.2	2.2	6.7	15.6	10.0	0.0	100.
4	13.3	7.8	0.0	2.2	1.1	6.7	8.9	5.6	5.6	6.7	5.6	2.2	2.2	5.6	12.2	14.4	0.0	100.
5	11.1	6.7	1.1	2.2	1.1	4.4	16.7	3.3	4.4	5.6	4.4	1.1	2.2	3.3	12.2	18.9	1.1	100.
6	8.0	3.4	3.4	1.1	4.5	3.4	14.8	9.1	2.3	5.7	4.5	1.1	2.3	5.7	8.0	21.6	1.1	100.
7	10.3	3.4	4.6	1.1	2.3	5.7	13.8	6.9	6.9	6.9	2.3	1.1	2.3	3.4	10.3	18.4	0.0	100.
8	12.6	3.4	4.6	1.1	2.3	5.7	12.6	3.4	10.3	5.7	5.7	1.1	3.4	2.3	10.3	14.9	0.0	100.
9	6.8	6.8	5.7	2.3	1.1	4.5	13.6	3.4	9.1	8.0	4.5	3.4	2.3	4.5	8.0	15.9	0.0	100.
10	7.9	6.7	5.6	2.2	2.2	4.5	15.7	2.2	9.0	5.6	6.7	0.0	4.5	4.5	6.7	15.7	0.0	100.
11	11.2	5.6	5.6	3.4	0.0	3.4	11.2	5.6	9.0	10.1	4.5	1.1	2.2	5.6	7.9	12.4	1.1	100.
12	13.5	6.7	4.5	1.1	2.2	5.6	9.0	7.9	9.0	5.6	6.7	1.1	3.4	3.4	11.2	9.0	0.0	100.
13	10.2	6.8	4.5	1.1	1.1	4.5	13.6	5.7	8.0	9.1	4.5	0.0	4.5	4.5	9.1	12.5	0.0	100.
14	12.2	3.3	5.6	1.1	3.3	3.3	10.0	6.7	10.0	7.8	4.4	4.4	2.2	4.4	11.1	10.0	0.0	100.
15	11.2	4.5	4.5	1.1	2.2	4.5	10.1	9.0	4.5	11.2	3.4	2.2	4.5	5.6	7.9	13.5	0.0	100.
16	9.0	3.4	2.2	2.2	4.5	5.6	6.7	9.0	6.7	10.1	1.1	2.2	5.6	4.5	14.6	12.4	0.0	100.
17	10.1	5.6	3.4	2.2	5.6	2.2	6.7	10.1	6.7	9.0	3.4	1.1	3.4	4.5	13.5	12.4	0.0	100.
18	10.1	6.7	2.2	2.2	3.4	5.6	7.9	7.9	9.0	10.1	0.0	3.4	2.2	2.2	10.1	15.7	1.1	100.
19	7.9	9.0	1.1	4.5	2.2	4.5	10.1	6.7	7.9	9.0	3.4	2.2	4.5	1.1	4.5	20.2	1.1	100.
20	7.9	10.1	1.1	2.2	2.2	9.0	9.0	7.9	6.7	10.1	3.4	2.2	2.2	2.2	5.6	16.9	1.1	100.
21	7.9	6.7	4.5	3.4	4.5	2.2	11.2	10.1	5.6	11.2	4.5	0.0	2.2	3.4	6.7	15.7	0.0	100.
22	6.7	9.0	2.2	1.1	4.5	3.4	12.4	9.0	6.7	7.9	6.7	0.0	1.1	6.7	4.5	18.0	0.0	100.
23	7.9	9.0	1.1	3.4	5.6	2.2	11.2	7.9	5.6	12.4	5.6	1.1	0.0	2.2	7.9	16.9	0.0	100.
24	12.4	1.1	6.7	2.2	3.4	2.2	12.4	5.6	10.1	6.7	10.1	2.2	0.0	1.1	9.0	14.6	0.0	100.
ALL	10.1	5.8	3.4	2.1	2.8	4.7	11.1	6.5	7.3	8.0	5.2	1.6	2.7	3.8	9.6	14.9	0.4	100.

NUMBER OF OBS = 2135

Precipitation

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1995 RAIN VERSION # 2P

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
95	1	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	6	0.10	0.10	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
95	1	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1995 RAIN VERSION # 2P

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
95	1	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	27	0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
95	1	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	1	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1995 RAIN VERSION # 2P

MONTH OF JANUARY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 6
TOTAL DAYS WITH PRECIPITATION - 2
TOTAL AMOUNT OF PRECIPITATION - 0.60 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
MAXIMUM DAILY PRECIPITATION - 0.40 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 27 HOUR 2 - 0.10 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 6 HOUR 1 - 0.40 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 6 HOUR 1 - 0.40 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 6 HOUR 1 - 0.40 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 6 HOUR 1 - 0.40 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 503
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 4
TOTAL DAYS WITH PRECIPITATION - 1
TOTAL AMOUNT OF PRECIPITATION - 0.40 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
MAXIMUM DAILY PRECIPITATION - 0.40 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1995 RAIN VERSION # 2P

MONTH OF JANUARY

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	6	16	28	40	52
0.02	6	16	28	40	52
0.03	6	16	28	40	52
0.04	6	16	28	40	52
0.05	6	16	28	40	52
0.07	6	16	28	40	52
0.10	6	16	28	40	52
0.15	0	12	24	36	48
0.20	0	12	24	36	48
0.25	0	5	11	17	23
0.30	0	5	11	17	23
0.35	0	3	9	15	21
0.40	0	3	9	15	21
0.45	0	0	0	0	0
0.50	0	0	0	0	0
0.60	0	0	0	0	0
0.70	0	0	0	0	0
0.80	0	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 JAN-MAR 1995 RAIN VERSION # 2P

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
95	2	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.02
95	2	3	0.10	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
95	2	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
95	2	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	
			0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14
95	2	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2	13	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
95	2	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2	15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
95	2	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1995 RAIN VERSION # 2P

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
95	2	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	2	27	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
95	2	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1995 RAIN VERSION # 2P

MONTH OF FEBRUARY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 672
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 9
TOTAL DAYS WITH PRECIPITATION - 7
TOTAL AMOUNT OF PRECIPITATION - 0.45 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
MAXIMUM DAILY PRECIPITATION - 0.14 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 27 HOUR 7 - 0.10 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 2 HOUR 21 - 0.16 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 2 HOUR 21 - 0.16 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 2 HOUR 21 - 0.16 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 5 HOUR 17 - 0.17 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 317
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 4
TOTAL DAYS WITH PRECIPITATION - 3
TOTAL AMOUNT OF PRECIPITATION - 0.18 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
MAXIMUM DAILY PRECIPITATION - 0.14 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1995 RAIN VERSION # 2P

MONTH OF FEBRUARY

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	9	42	78	114	145
0.02	7	30	54	78	97
0.03	6	25	50	74	93
0.04	5	20	38	56	74
0.05	3	18	36	54	72
0.07	3	18	36	54	72
0.10	3	18	36	54	72
0.15	0	1	7	13	23
0.20	0	0	0	0	0
0.25	0	0	0	0	0
0.30	0	0	0	0	0
0.35	0	0	0	0	0
0.40	0	0	0	0	0
0.45	0	0	0	0	0
0.50	0	0	0	0	0
0.60	0	0	0	0	0
0.70	0	0	0	0	0
0.80	0	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 JAN-MAR 1995 RAIN VERSION # 2P

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
95	3	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	13	0.00	0.00	0.10	0.20	0.10	0.00	0.00	0.00	0.10	0.00	0.00	0.00	
			9.99	0.10	0.10	0.00	0.00	0.10	0.10	0.10	0.10	0.00	0.00	0.00	1.10
95	3	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1995 RAIN VERSION # 2P

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
95	3	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.20
95	3	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.20	0.30	0.20	0.00	0.10	0.20	0.10	0.20	0.10	0.00	0.00	0.00	1.40
95	3	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	3	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1995 RAIN VERSION # 2P

MONTH OF MARCH

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 1
TOTAL HOURS OF PRECIPITATION - 19
TOTAL DAYS WITH PRECIPITATION - 3
TOTAL AMOUNT OF PRECIPITATION - 2.70 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.30 INCHES
MAXIMUM DAILY PRECIPITATION - 1.40 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 25 HOUR 14 - 0.30 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 25 HOUR 13 - 1.00 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 25 HOUR 13 - 1.40 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 25 HOUR 13 - 1.40 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 25 HOUR 13 - 1.40 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 201
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1995 RAIN VERSION # 2P

MONTH OF MARCH

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	19	44	62	80	98
0.02	19	44	62	80	98
0.03	19	44	62	80	98
0.04	19	44	62	80	98
0.05	19	44	62	80	98
0.07	19	44	62	80	98
0.10	19	44	62	80	98
0.15	7	38	59	77	95
0.20	7	38	59	77	95
0.25	1	25	45	57	69
0.30	1	25	45	57	69
0.35	0	21	41	54	66
0.40	0	21	41	54	66
0.45	0	10	31	46	58
0.50	0	10	31	46	58
0.60	0	9	23	39	51
0.70	0	8	14	32	44
0.80	0	4	10	21	33
0.90	0	2	9	18	30
1.00	0	1	8	16	28
1.10	0	0	7	13	25
1.20	0	0	6	12	18
1.30	0	0	5	11	17
1.40	0	0	4	10	16
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 JAN-MAR 1995 RAIN VERSION # 2P

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2160
NUMBER OF MISSING HOURS - 1
TOTAL HOURS OF PRECIPITATION - 34
TOTAL DAYS WITH PRECIPITATION - 12
TOTAL AMOUNT OF PRECIPITATION - 3.75 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.30 INCHES
MAXIMUM DAILY PRECIPITATION - 1.40 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 3 DAY 25 HOUR 14 - 0.30 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 3 DAY 25 HOUR 13 - 1.00 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 3 DAY 25 HOUR 13 - 1.40 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 3 DAY 25 HOUR 13 - 1.40 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 3 DAY 25 HOUR 13 - 1.40 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 1021
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 8
TOTAL DAYS WITH PRECIPITATION - 4
TOTAL AMOUNT OF PRECIPITATION - 0.58 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
MAXIMUM DAILY PRECIPITATION - 0.40 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-MAR 1995 RAIN VERSION # 2P

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	34	102	168	234	295
0.02	32	90	144	198	247
0.03	31	86	140	194	243
0.04	30	80	128	176	224
0.05	28	78	126	174	222
0.07	28	78	126	174	222
0.10	28	78	126	174	222
0.15	7	51	90	126	166
0.20	7	50	83	113	143
0.25	1	30	56	74	92
0.30	1	30	56	74	92
0.35	0	24	50	69	87
0.40	0	24	50	69	87
0.45	0	10	31	46	58
0.50	0	10	31	46	58
0.60	0	9	23	39	51
0.70	0	8	14	32	44
0.80	0	4	10	21	33
0.90	0	2	9	18	30
1.00	0	1	8	16	28
1.10	0	0	7	13	25
1.20	0	0	6	12	18
1.30	0	0	5	11	17
1.40	0	0	4	10	16
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 APR-JUN 1995 RAIN VERSION # 2P

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
95	4	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	4	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	4	3	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
95	4	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	4	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	4	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	4	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	4	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	4	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	4	10	0.00	0.00	0.00	0.00	0.20	0.10	0.20	0.00	0.00	0.00	0.00	0.10	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60
95	4	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	4	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	4	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	4	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	4	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	4	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	4	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.10	0.00	0.00	0.30

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1995

RAIN VERSION # 2P

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
95	4	18	0.00 0.00	0.00 0.00	0.00 0.00	0.10 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.10
95	4	19	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
95	4	20	0.00 0.00	0.10 0.00	0.00 0.00	0.20 0.00	0.10 0.00	0.10 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.50
95	4	21	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.10 0.00	0.00 0.00	0.00 0.00	0.10
95	4	22	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
95	4	23	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
95	4	24	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
95	4	25	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.30	0.00 0.20	0.00 0.00	0.50
95	4	26	0.00 0.10	0.00 0.00	0.00 0.10	0.00 0.20	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.10 0.00	0.10 0.00	0.60
95	4	27	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
95	4	28	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
95	4	29	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00
95	4	30	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.10	0.00 0.10	0.00 0.00	0.00 0.10	0.00 0.10	0.00 0.00	0.00 0.00	0.40

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1995 RAIN VERSION # 2P

MONTH OF APRIL

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 25
TOTAL DAYS WITH PRECIPITATION - 9
TOTAL AMOUNT OF PRECIPITATION - 3.20 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.30 INCHES
MAXIMUM DAILY PRECIPITATION - 0.60 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 25 HOUR 22 - 0.30 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 26 HOUR 11 - 0.60 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 26 HOUR 11 - 0.60 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 25 HOUR 22 - 0.90 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 25 HOUR 22 - 1.10 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 17
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1995 RAIN VERSION # 2P

MONTH OF APRIL

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	25	74	116	152	188
0.02	25	74	116	152	188
0.03	25	74	116	152	188
0.04	25	74	116	152	188
0.05	25	74	116	152	188
0.07	25	74	116	152	188
0.10	25	74	116	152	188
0.15	6	44	75	100	124
0.20	6	44	75	100	124
0.25	1	35	66	93	117
0.30	1	35	66	93	117
0.35	0	20	50	79	103
0.40	0	20	50	79	103
0.45	0	13	37	61	79
0.50	0	13	37	61	79
0.60	0	1	12	29	41
0.70	0	0	0	5	11
0.80	0	0	0	4	10
0.90	0	0	0	1	7
1.00	0	0	0	0	6
1.10	0	0	0	0	6
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 APR-JUN 1995 RAIN VERSION # 2P

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
95	5	1	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
95	5	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	5	3	0.10	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	
			0.00	0.00	0.10	0.10	0.00	0.10	0.00	0.00	0.10	0.00	0.10	0.00	0.80
95	5	4	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.10	0.00	0.10	0.00	0.10	0.00	0.00	0.00	0.10	0.10	0.00	0.60
95	5	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	5	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	5	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.20	0.70	0.40	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	1.70
95	5	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.10	0.00	0.10	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.50
95	5	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	5	10	0.00	0.20	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
95	5	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	5	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.30	
			0.10	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.60	0.00	1.50
95	5	13	0.10	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
95	5	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	5	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	5	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	5	17	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.10	0.30

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1995 RAIN VERSION # 2P

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
95	5	18	0.30	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
95	5	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	5	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	5	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	5	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.80	0.00	0.00	1.40
95	5	23	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.20	0.30	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	1.20
95	5	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	5	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	5	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.20	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
95	5	27	0.10	0.00	0.00	0.20	0.30	0.30	0.30	0.10	0.10	0.10	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50
95	5	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	5	29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	5	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	5	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.20	0.00	0.00	0.10	0.00	0.00	0.00	0.10	0.10	0.50

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1995 RAIN VERSION # 2P

MONTH OF MAY

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 744
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 60
TOTAL DAYS WITH PRECIPITATION - 15
TOTAL AMOUNT OF PRECIPITATION - 11.30 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.80 INCHES
MAXIMUM DAILY PRECIPITATION - 1.70 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 22 HOUR 22 - 0.80 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 7 HOUR 13 - 1.50 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 22 HOUR 21 - 2.10 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 22 HOUR 21 - 2.40 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 22 HOUR 21 - 2.50 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1995 RAIN VERSION # 2P

MONTH OF MAY

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	60	179	256	306	348
0.02	60	179	256	306	348
0.03	60	179	256	306	348
0.04	60	179	256	306	348
0.05	60	179	256	306	348
0.07	60	179	256	306	348
0.10	60	179	256	306	348
0.15	22	123	203	258	301
0.20	22	123	203	258	301
0.25	13	78	161	226	277
0.30	13	78	161	226	277
0.35	6	49	115	173	226
0.40	6	49	115	173	226
0.45	5	46	99	155	211
0.50	5	46	99	155	211
0.60	4	38	81	122	174
0.70	2	32	67	94	134
0.80	1	29	59	84	113
0.90	0	24	57	82	106
1.00	0	18	51	78	102
1.10	0	18	43	70	94
1.20	0	13	34	66	93
1.30	0	11	32	57	81
1.40	0	3	21	53	80
1.50	0	3	16	42	68
1.60	0	0	5	21	47
1.70	0	0	4	17	39
1.80	0	0	3	9	18
1.90	0	0	3	9	15
2.00	0	0	1	7	15

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

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1995 RAIN VERSION # 2P

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
95	6	1	0.10	0.10	0.20	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.10	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.70
95	6	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	
			0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30
95	6	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.10	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.99	0.20
95	6	6	9.99	9.99	9.99	9.99	9.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6	7	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50
95	6	8	0.00	0.00	1.60	0.20	0.10	0.00	0.00	0.00	0.00	0.00	0.10	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00
95	6	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.99	9.99	0.00	0.00	0.00	0.00
95	6	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1995 RAIN VERSION # 2P

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
95	6	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
95	6	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6	25	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.10	0.00	0.10	
			0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10	0.00	0.00	0.60
95	6	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10
95	6	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6	28	0.10	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20
95	6	29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
95	6	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1995 RAIN VERSION # 2P

MONTH OF JUNE

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 720
NUMBER OF MISSING HOURS - 8
TOTAL HOURS OF PRECIPITATION - 25
TOTAL DAYS WITH PRECIPITATION - 9
TOTAL AMOUNT OF PRECIPITATION - 5.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 1.60 INCHES
MAXIMUM DAILY PRECIPITATION - 2.00 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 8 HOUR 3 - 1.60 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 8 HOUR 3 - 1.90 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 8 HOUR 3 - 2.00 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 8 HOUR 3 - 2.00 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS DAY 7 HOUR 6 - 2.40 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 0
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1995 RAIN VERSION # 2P

MONTH OF JUNE

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	25	94	146	188	222
0.02	25	94	146	188	222
0.03	25	94	146	188	222
0.04	25	94	146	188	222
0.05	25	94	146	188	222
0.07	25	94	146	188	222
0.10	25	94	146	188	222
0.15	6	51	106	150	191
0.20	6	51	106	150	191
0.25	3	25	62	99	129
0.30	3	25	62	99	129
0.35	3	20	46	74	97
0.40	3	20	46	74	97
0.45	2	13	25	46	63
0.50	2	13	25	46	63
0.60	1	6	12	22	36
0.70	1	6	12	19	25
0.80	1	6	12	18	24
0.90	1	6	12	18	24
1.00	1	6	12	18	24
1.10	1	6	12	18	24
1.20	1	6	12	18	24
1.30	1	6	12	18	24
1.40	1	6	12	18	24
1.50	1	6	12	18	24
1.60	1	6	12	18	24
1.70	0	5	11	17	24
1.80	0	5	11	17	24
1.90	0	4	10	16	24
2.00	0	0	4	10	19

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

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1995 RAIN VERSION # 2P

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 2184
NUMBER OF MISSING HOURS - 8
TOTAL HOURS OF PRECIPITATION - 110
TOTAL DAYS WITH PRECIPITATION - 33
TOTAL AMOUNT OF PRECIPITATION - 19.50 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 1.60 INCHES
MAXIMUM DAILY PRECIPITATION - 2.00 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 6 DAY 8 HOUR 3 - 1.60 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 6 DAY 8 HOUR 3 - 1.90 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 22 HOUR 21 - 2.10 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 22 HOUR 21 - 2.49 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 22 HOUR 21 - 2.50 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 17
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 0
TOTAL DAYS WITH PRECIPITATION - 0
TOTAL AMOUNT OF PRECIPITATION - 0.00 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.00 INCHES
MAXIMUM DAILY PRECIPITATION - 0.00 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR APR-JUN 1995 RAIN VERSION # 2P

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	110	357	540	680	804
0.02	110	357	540	680	804
0.03	110	357	540	680	804
0.04	110	357	540	680	804
0.05	110	357	540	680	804
0.07	110	357	540	680	804
0.10	110	357	540	680	804
0.15	34	226	404	540	660
0.20	34	226	404	540	660
0.25	17	145	308	449	566
0.30	17	145	308	449	566
0.35	9	93	228	355	467
0.40	9	93	228	355	467
0.45	7	75	177	290	393
0.50	7	75	177	290	393
0.60	5	48	116	190	274
0.70	3	39	88	134	192
0.80	2	35	75	118	168
0.90	1	30	70	108	157
1.00	1	24	63	102	145
1.10	1	24	55	88	125
1.20	1	19	46	84	117
1.30	1	17	44	75	105
1.40	1	9	33	71	104
1.50	1	9	28	60	92
1.60	1	6	17	39	71
1.70	0	5	15	34	63
1.80	0	5	14	26	42
1.90	0	4	13	25	39
2.00	0	0	5	17	34

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-JUN 1995 RAIN VERSION # 2P

FOR ALL TEMPERATURES

TOTAL NUMBER OF HOURS - 4344
NUMBER OF MISSING HOURS - 9
TOTAL HOURS OF PRECIPITATION - 144
TOTAL DAYS WITH PRECIPITATION - 45
TOTAL AMOUNT OF PRECIPITATION - 23.25 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 1.60 INCHES
MAXIMUM DAILY PRECIPITATION - 2.00 INCHES

1 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 6 DAY 8 HOUR 3 - 1.60 INCHES
6 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 6 DAY 8 HOUR 3 - 1.90 INCHES
12 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 22 HOUR 21 - 2.10 INCHES
18 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 22 HOUR 21 - 2.40 INCHES
24 HOUR PERIOD IN MONTH WITH GREATEST AMOUNT PERCIPITATION STARTS MONTH 5 DAY 22 HOUR 21 - 2.50 INCHES

FOR TEMPERATURES LESS THAN OR EQUAL TO 32 DEGREES FARENHEIT

TOTAL NUMBER OF HOURS - 1038
NUMBER OF MISSING HOURS - 0
TOTAL HOURS OF PRECIPITATION - 8
TOTAL DAYS WITH PRECIPITATION - 4
TOTAL AMOUNT OF PRECIPITATION - 0.58 INCHES
MAXIMUM 1-HOUR PRECIPITATION - 0.10 INCHES
MAXIMUM DAILY PRECIPITATION - 0.40 INCHES

NPPD-COOPER NUCLEAR STATION PRECIPITATION DATA FOR JAN-JUN 1995 RAIN VERSION # 2P

PRECIPITATION INTENSITY - DURATION
(NUMBER OF OCCURRENCES)

AMOUNT INCHES	DURATION (HOURS) 1	6	12	18	24
0.01	144	459	708	914	1099
0.02	142	447	684	878	1051
0.03	141	443	680	874	1047
0.04	140	437	668	856	1028
0.05	138	435	666	854	1026
0.07	138	435	666	854	1026
0.10	138	435	666	854	1026
0.15	41	277	494	666	826
0.20	41	276	487	653	803
0.25	18	175	364	523	658
0.30	18	175	364	523	658
0.35	9	117	278	424	554
0.40	9	117	278	424	554
0.45	7	85	208	336	451
0.50	7	85	208	336	451
0.60	5	57	139	229	325
0.70	3	47	102	166	236
0.80	2	39	85	139	201
0.90	1	32	79	126	187
1.00	1	25	71	118	173
1.10	1	24	62	101	150
1.20	1	19	52	96	135
1.30	1	17	49	86	122
1.40	1	9	37	81	120
1.50	1	9	28	60	92
1.60	1	6	17	39	71
1.70	0	5	15	34	63
1.80	0	5	14	26	42
1.90	0	4	13	25	39
2.00	0	0	5	17	34

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. 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 Regualtory 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 1995

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-MAR 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 3/31/95

*** JAN-MAR 1995 ***

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	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	3
3.51- 7.50	11	1	2	8	7	7	1	1	0	1	0	0	1	2	1	0	43
7.51-12.50	20	4	0	0	1	4	4	5	6	1	1	0	0	1	1	5	53
12.51-18.50	1	0	0	0	0	1	12	4	5	1	1	0	0	3	5	8	41
18.51-24.00	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1	4	7
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	33	5	3	8	8	12	18	10	13	3	2	0	1	6	8	17	147

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	0	0	0	0	2	1	0	0	0	1	0	0	1	1	0	7
3.51- 7.50	7	4	3	2	2	5	2	2	1	4	4	3	0	0	2	1	42
7.51-12.50	9	1	1	0	0	1	3	0	2	7	1	0	0	0	5	7	37
12.51-18.50	2	0	0	0	0	0	1	6	1	1	1	0	0	2	5	10	29
18.51-24.00	0	0	0	0	0	0	0	0	1	3	0	0	0	0	2	2	8
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	2
TOTAL	19	5	4	2	2	8	7	8	6	15	7	3	0	3	15	21	125

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-MAR 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 3/31/95

*** JAN-MAR 1995 ***

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	1	0	0	0	0	0	0	0	1	0	0	0	0	0	2
3.51- 7.50	12	5	3	1	1	3	8	3	4	4	1	4	2	0	3	6	60
7.51-12.50	10	3	0	1	0	2	8	1	2	3	1	1	0	1	5	16	54
12.51-18.50	0	0	0	0	0	1	3	2	2	2	1	1	0	2	12	7	33
18.51-24.00	0	0	0	0	0	0	0	0	1	5	0	0	0	0	1	3	10
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	22	8	4	2	1	6	19	6	9	14	4	6	2	3	21	32	159

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	6	6	3	4	3	3	4	9	9	7	8	1	1	0	2	5	71
3.51- 7.50	37	32	15	7	16	23	40	8	14	12	5	6	13	8	18	22	276
7.51-12.50	28	9	0	1	9	4	44	7	17	7	2	2	8	19	83	49	289
12.51-18.50	4	0	0	0	1	7	17	4	24	5	1	3	6	16	31	52	171
18.51-24.00	0	0	0	0	0	0	1	0	4	5	5	6	12	8	7	20	68
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	3
TOTAL	75	47	18	12	29	37	106	28	68	36	21	18	42	52	141	148	878

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-MAR 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 3/31/95

*** JAN-MAR 1995 ***

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																	1
1.01- 3.50	12	6	10	5	2	0	2	9	9	5	4	1	7	8	14	18	112
3.51- 7.50	18	2	1	1	3	9	19	10	21	17	4	2	4	12	34	35	192
7.51-12.50	6	2	0	0	0	0	16	7	15	10	10	3	0	6	25	28	128
12.51-18.50	0	0	0	0	0	0	9	10	4	4	1	2	1	1	9	13	54
18.51-24.00	0	0	0	0	0	0	0	0	0	1	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	36	10	11	6	5	9	46	36	49	37	19	8	12	27	82	94	488

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	3	5	2	0	0	0	0	7	14	12	7	2	1	7	3	13	76
3.51- 7.50	2	0	0	0	0	0	1	7	26	16	2	1	3	2	1	3	64
7.51-12.50	0	0	0	0	0	0	0	0	11	7	0	1	5	4	1	2	31
12.51-18.50	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	3
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	5	5	2	0	0	0	1	14	52	35	9	5	9	14	5	18	175

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-MAR 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 3/31/95

*** JAN-MAR 1995 ***

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																	1
1.01- 3.50	5	9	2	1	1	2	6	12	19	9	6	1	1	0	5	7	86
3.51- 7.50	2	0	0	0	0	0	0	1	6	2	0	0	0	0	0	2	13
7.51-12.50	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	3
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	7	9	2	1	1	2	6	13	25	11	7	2	1	1	5	9	103

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																	3
1.01- 3.50	28	26	19	10	6	7	14	37	51	33	27	5	10	16	25	43	357
3.51- 7.50	89	44	24	19	29	47	71	32	72	56	16	16	23	24	59	69	690
7.51-12.50	73	19	1	2	10	11	75	20	53	35	16	8	13	32	120	107	595
12.51-18.50	7	0	0	0	1	9	42	26	37	13	5	7	7	25	62	90	331
18.51-24.00	0	0	0	0	0	0	1	0	8	14	5	6	12	8	11	29	94
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	2	1	0	1	5
TOTAL	197	89	44	31	46	74	203	115	222	151	69	42	67	106	277	339	2075

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-MAR 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 3/31/95

*** JAN-MAR 1995 ***

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: 2075

TOTAL NUMBER OF MISSING OBSERVATIONS: 85

PERCENT DATA RECOVERY FOR THIS PERIOD: 96.1 %

MEAN WIND SPEED FOR THIS PERIOD: 8.5 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
7.08	6.02	7.66	42.31	23.52	8.43	4.96

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	33	5	3	8	8	12	18	10	13	3	2	0	1	6	8	17	0
B	19	5	4	2	2	8	7	8	6	15	7	3	0	3	15	21	0
C	22	8	4	2	1	6	19	6	9	14	4	6	2	3	21	32	0
D	75	47	18	12	29	37	106	28	68	36	21	18	42	52	141	148	0
E	36	10	11	6	5	9	46	36	49	37	19	8	12	27	82	94	1
F	5	5	2	0	0	0	1	14	52	35	9	5	9	14	5	18	1
G	7	9	2	1	1	2	6	13	25	11	7	2	1	1	5	9	1
TOTAL	197	89	44	31	46	74	203	115	222	151	69	42	67	106	277	339	3

JFDs of 10-Meter Wind vs. Delta T

April-June 1995

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T APR-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

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	1	0	0	2	0	[illegible]	0	0	0	0	1	0	0	1	5
3.51- 7.50	18	9	7	11	6	10	15	8	4	1	0	0	0	0	1	5	95
7.51-12.50	13	3	6	15	4	18	23	22	24	9	1	0	1	0	8	22	169
12.51-18.50	1	1	0	1	0	1	0	5	20	7	4	1	5	1	1	7	55
18.51-24.00	0	0	0	0	0	0	0	3	1	7	0	0	0	0	0	0	11
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	32	13	14	27	10	31	38	38	49	24	5	1	7	1	10	35	335

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	4	0	0	0	1	1	0	0	0	0	0	0	0	0	7
3.51- 7.50	16	5	4	7	4	4	7	3	7	2	1	0	0	1	3	6	70
7.51-12.50	5	7	12	1	2	8	2	5	14	17	0	0	1	1	5	14	94
12.51-18.50	2	2	0	1	0	0	1	4	3	1	1	1	4	0	1	3	24
18.51-24.00	0	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	3
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	23	15	20	9	6	12	11	15	24	21	2	1	5	2	9	23	198

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T APR-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

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	0	1	1	0	0	1	1	1	0	0	0	0	1	0	9
3.51- 7.50	12	2	6	3	1	6	6	4	4	4	2	0	0	2	3	11	66
7.51-12.50	8	8	4	4	2	5	9	7	8	11	0	0	1	2	5	15	89
12.51-18.50	1	0	0	0	0	0	1	2	5	1	4	4	1	6	7	2	34
18.51-24.00	0	0	0	0	0	0	0	0	0	1	0	0	1	1	0	0	3
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	22	12	10	8	4	11	16	14	18	18	6	4	3	11	16	28	201

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	4	4	2	3	0	0	0	3	3	1	1	1	1	2	7	39
3.51- 7.50	35	25	7	10	6	19	9	20	7	10	3	4	3	12	20	16	206
7.51-12.50	26	23	13	5	13	12	17	17	15	12	8	0	4	16	31	26	238
12.51-18.50	2	3	5	1	0	0	1	10	5	2	10	6	6	18	12	9	90
18.51-24.00	0	0	0	0	0	0	0	1	1	0	0	6	5	15	0	1	29
>24.00	0	0	0	0	0	0	0	0	0	0	0	5	2	2	0	0	9
TOTAL	70	55	29	18	22	31	27	48	31	27	22	22	21	64	65	59	611

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T APR-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

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																	0
1.01- 3.50	12	4	7	1	2	0	2	14	24	13	2	6	1	4	5	7	104
3.51- 7.50	15	4	6	2	3	10	17	24	25	10	2	4	0	4	3	23	152
7.51-12.50	2	0	0	0	2	0	9	4	5	5	1	3	2	11	10	3	57
12.51-18.50	0	0	0	0	0	0	0	5	2	1	2	0	5	0	0	0	15
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	29	8	13	3	7	10	28	47	56	29	7	13	9	19	18	33	329

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																	0
1.01- 3.50	2	2	1	1	0	0	2	9	17	17	4	1	1	4	10	14	85
3.51- 7.50	1	0	0	0	1	0	1	4	4	4	1	0	1	2	0	4	23
7.51-12.50	0	0	0	0	0	0	2	0	0	1	0	1	0	1	0	0	5
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3	2	1	1	1	0	5	13	21	22	5	2	2	7	10	18	113

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T APR-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

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																	0
1.01- 3.50	4	5	1	1	0	1	4	12	9	5	3	2	1	0	6	21	75
3.51- 7.50	0	0	0	0	0	0	0	2	2	0	0	0	0	0	2	2	8
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	5	1	1	0	1	4	14	11	5	3	2	1	0	8	23	83

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																	0
1.01- 3.50	26	18	18	6	6	3	9	37	54	39	10	10	5	9	24	50	324
3.51- 7.50	97	45	30	33	21	49	55	65	53	31	9	8	4	21	32	67	620
7.51-12.50	54	41	35	25	23	43	62	55	66	55	10	4	9	31	59	80	652
12.51-18.50	6	6	5	3	0	1	3	26	35	12	21	12	21	25	21	21	218
18.51-24.00	0	0	0	0	0	0	0	6	2	9	0	6	7	16	0	1	47
>24.00	0	0	0	0	0	0	0	0	0	0	0	5	2	2	0	0	9
TOTAL	183	110	88	67	50	96	129	189	210	146	50	45	48	104	136	219	1870

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T APR-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

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: 1870

TOTAL NUMBER OF MISSING OBSERVATIONS: 314

PERCENT DATA RECOVERY FOR THIS PERIOD: 85.6 %

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
17.91	10.59	10.75	32.67	17.59	6.04	4.44

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	32	13	14	27	10	31	38	38	49	24	5	1	7	1	10	35	0
B	23	15	20	9	6	12	11	15	24	21	2	1	5	2	9	23	0
C	22	12	10	8	4	11	16	14	18	18	6	4	3	11	16	28	0
D	70	55	29	18	22	31	27	48	31	27	22	22	21	64	65	59	0
E	29	8	13	3	7	10	28	47	56	29	7	13	9	19	18	33	0
F	3	2	1	1	1	0	5	13	21	22	5	2	2	7	10	18	0
G	4	5	1	1	0	1	4	14	11	5	3	2	1	0	8	23	0
TOTAL	183	110	88	67	50	96	129	189	210	146	50	45	48	104	136	219	0

JFDs of 10-Meter Wind vs. Delta T

January-June 1995

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

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	1	0	2	0	0	2	1	0	0	0	0	0	1	0	0	1	8
3.51- 7.50	29	10	9	19	13	17	16	9	4	2	0	0	1	2	2	5	138
7.51-12.50	33	7	6	15	5	22	27	27	30	10	2	0	1	1	9	27	222
12.51-18.50	2	1	0	1	0	2	12	9	25	8	5	1	5	4	6	15	96
18.51-24.00	0	0	0	0	0	0	0	3	3	7	0	0	0	0	1	4	18
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	65	18	17	35	18	43	56	48	62	27	7	1	8	7	18	52	482

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	4	0	0	2	2	1	0	0	1	0	0	1	1	0	14
3.51- 7.50	23	9	7	9	6	9	9	5	8	6	5	3	0	1	5	7	112
7.51-12.50	14	8	13	1	2	9	5	5	16	24	1	0	1	1	10	21	131
12.51-18.50	4	2	0	1	0	0	2	10	4	2	2	1	4	2	6	13	53
18.51-24.00	0	0	0	0	0	0	0	2	1	4	0	0	0	0	2	2	11
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	2
TOTAL	42	20	24	11	8	20	18	23	30	36	9	4	5	5	24	44	323

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

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	1	1	0	0	1	1	1	1	0	0	0	1	0	11
3.51- 7.50	24	7	9	4	2	9	14	7	8	8	3	4	2	2	6	17	126
7.51-12.50	18	11	4	5	2	7	17	8	10	14	1	1	1	3	10	31	143
12.51-18.50	1	0	0	0	0	1	4	4	7	3	5	5	1	8	19	9	67
18.51-24.00	0	0	0	0	0	0	0	0	1	6	0	0	1	1	1	3	13
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	44	20	14	10	5	17	35	20	27	32	10	10	5	14	37	60	360

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	10	7	6	6	3	4	9	12	10	9	2	2	1	4	12	110
3.51- 7.50	72	57	22	17	22	42	49	28	21	22	8	10	16	20	38	38	482
7.51-12.50	54	32	13	6	22	16	61	24	32	19	10	2	12	35	114	75	527
12.51-18.50	6	3	5	1	1	7	18	14	29	7	11	9	12	34	43	61	261
18.51-24.00	0	0	0	0	0	0	1	1	5	5	5	12	17	23	7	21	97
>24.00	0	0	0	0	0	0	0	0	0	0	0	5	4	3	0	0	12
TOTAL	145	102	47	30	51	68	133	76	99	63	43	40	63	116	206	207	1489

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

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																	1
1.01- 3.50	24	10	17	6	4	0	4	23	33	18	6	7	8	12	19	25	216
3.51- 7.50	33	6	7	3	6	19	36	34	46	27	6	6	4	16	27	58	344
7.51-12.50	8	2	0	0	2	0	25	11	20	15	11	6	2	17	35	31	185
12.51-18.50	0	0	0	0	0	0	9	15	6	5	3	2	6	1	9	13	69
18.51-24.00	0	0	0	0	0	0	0	0	0	1	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	65	18	24	9	12	19	74	83	105	66	26	21	21	46	100	127	817

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	5	7	3	1	0	0	2	16	31	29	11	3	2	11	13	27	161
3.51- 7.50	3	0	0	0	1	0	2	11	30	20	3	1	4	4	1	7	87
7.51-12.50	0	0	0	0	0	0	2	0	11	8	0	2	5	5	1	2	36
12.51-18.50	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0	0	3
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8	7	3	1	1	0	6	27	73	57	14	7	11	21	15	36	288

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

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																	1
1.01- 3.50	9	14	3	2	1	3	10	24	28	14	9	3	2	0	11	28	161
3.51- 7.50	2	0	0	0	0	0	0	3	8	2	0	0	0	0	2	4	21
7.51-12.50	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	3
12.51-18.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	11	14	3	2	1	3	10	27	36	16	10	4	2	1	13	32	186

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																	3
1.01- 3.50	54	44	37	16	12	10	23	74	105	72	37	15	15	25	49	93	681
3.51- 7.50	186	89	54	52	50	96	126	97	125	87	25	24	27	45	91	136	1310
7.51-12.50	127	60	36	27	33	54	137	75	119	90	26	12	22	63	179	187	1247
12.51-18.50	13	6	5	3	1	10	45	52	72	25	26	19	28	50	83	111	549
18.51-24.00	0	0	0	0	0	0	1	6	10	23	5	12	19	24	11	30	141
>24.00	0	0	0	0	0	0	0	0	1	0	0	5	4	3	0	1	14
TOTAL	380	199	132	98	96	170	332	304	432	297	119	87	115	210	413	558	3945

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

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: 3945

TOTAL NUMBER OF MISSING OBSERVATIONS: 399

PERCENT DATA RECOVERY FOR THIS PERIOD: 90.8 %

MEAN WIND SPEED FOR THIS PERIOD: 8.2 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
12.22	8.19	9.13	37.74	20.71	7.30	4.71

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	65	18	17	35	18	43	56	48	62	27	7	1	8	7	18	52	0
B	42	20	24	11	8	20	18	23	30	36	9	4	5	5	24	44	0
C	44	20	14	10	5	17	35	20	27	32	10	10	5	14	37	60	0
D	145	102	47	30	51	68	133	76	99	63	43	40	63	116	206	207	0
E	65	18	24	9	12	19	74	83	105	66	26	21	21	46	100	127	1
F	8	7	3	1	1	0	6	27	73	57	14	7	11	21	15	36	1
G	11	14	3	2	1	3	10	27	36	16	10	4	2	1	13	32	1
TOTAL	380	199	132	98	96	170	332	304	432	297	119	87	115	210	413	558	3

Stability Class by Hour of Day

10-Meter Wind vs. Delta T

January-June 1995

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

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
95	1	1	D	E	E	E	E	F	F	E	E	D	D	D	D	D	D	D	D	E	E	E	E	F	E	E
95	1	2	E	F	E	F	F	G	F	F	F	F	E	D	D	D	D	D	E	E	E	F	F	F	E	E
95	1	3	D	D	D	D	D	D	D	E	E	D	D	D	D	D	D	D	D	E	E	G	G	G	G	G
95	1	4	G	G	G	G	E	F	F	F	E	D	D	D	D	D	D	D	D	E	F	F	F	F	F	F
95	1	5	F	F	F	F	F	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	1	6	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E
95	1	7	E	E	E	E	E	E	E	F	E	E	E	E	D	D	D	D	E	F	F	F	F	G	F	F
95	1	8	F	F	F	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	F	G	G
95	1	9	G	G	G	G	G	F	F	F	E	E	D	E	D	D	D	D	E	F	E	E	E	E	E	E
95	1	10	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	C	B	B	C	D	D
95	1	11	D	D	C	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	C	C	D	D	D	E
95	1	12	D	D	B	B	B	B	B	B	D	D	D	D	D	D	D	E	E	E	E	F	E	E	E	E
95	1	13	E	E	E	D	E	E	D	D	D	D	C	C	C	D	D	D	D	D	D	D	C	C	B	B
95	1	14	B	C	C	D	D	D	D	D	D	D	B	B	B	A	C	D	D	D	D	D	D	D	D	D
95	1	15	D	D	D	D	D	D	C	D	D	D	D	D	A	A	D	D	E	E	E	E	E	E	E	E
95	1	16	E	D	E	E	D	E	E	E	E	D	D	D	D	D	D	E	E	E	E	E	E	E	E	E
95	1	17	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	G	G	G	G	G
95	1	18	G	G	G	G	G	G	G	G	F	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E
95	1	19	E	E	D	E	E	E	E	E	D	D	C	B	B	A	C	D	D	E	E	E	E	E	E	E
95	1	20	E	E	D	D	D	C	D	D	C	C	C	D	C	B	C	D	D	D	D	D	D	D	D	D
95	1	21	D	D	D	D	D	D	D	D	D	D	C	C	A	C	D	D	D	E	E	E	E	E	E	E
95	1	22	E	E	E	E	D	D	D	E	D	D	D	C	B	B	C	D	D	D	E	E	D	D	D	D
95	1	23	D	D	D	D	D	E	E	D	D	D	D	D	D	C	D	D	D	E	E	F	E	E	D	D
95	1	24	D	D	E	E	E	D	D	D	D	D	C	C	B	B	D	D	D	F	G	G	G	G	G	G
95	1	25	G	E	E	E	E	E	D	D	D	D	C	C	B	B	C	D	D	E	E	E	E	E	F	F
95	1	26	G	F	F	F	F	G	G	E	E	D	D	D	C	C	D	D	D	E	E	E	D	D	D	C
95	1	27	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	C	C	E	E
95	1	28	E	E	E	E	D	A	C	D	D	C	C	C	C	D	D	D	D	D	D	D	D	D	D	D
95	1	29	D	D	D	D	D	D	D	D	D	D	C	C	C	C	D	D	D	D	E	E	E	E	E	E
95	1	30	E	E	E	D	E	E	E	E	D	D	D	C	C	C	D	C	D	E	F	E	E	E	F	F
95	1	31	E	F	E	E	F	F	-	-	-	D	D	D	C	D	D	D	D	E	F	F	F	F	E	E
95	2	1	E	E	E	E	E	E	F	F	F	E	D	B	A	C	D	D	D	F	G	G	G	F	E	F
95	2	2	F	G	F	E	E	F	D	D	D	C	D	D	D	D	C	D	D	D	D	D	C	A	D	D
95	2	3	E	D	D	D	A	A	C	B	B	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	2	4	D	E	D	E	D	D	D	D	D	D	D	C	C	B	D	B	D	D	D	D	D	D	D	D
95	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
95	2	6	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	F	F
95	2	7	E	E	E	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	E	E	E	E	E	E
95	2	8	E	E	E	E	E	E	E	F	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E	E
95	2	9	F	E	E	E	E	F	F	F	E	E	D	D	D	C	D	D	D	E	F	F	F	F	F	E
95	2	10	E	E	E	E	E	E	E	D	D	D	C	B	B	B	A	B	D	D	E	E	E	F	F	F
95	2	11	E	D	D	D	D	D	D	D	D	D	B	B	A	A	A	B	B	D	D	E	E	F	E	F	F
95	2	12	F	E	E	E	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	D	D
95	2	13	D	D	D	D	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	2	14	D	D	D	D	D	D	D	D	D	D	D	D	D	C	C	C	B	B	B	A	A	A	A	A

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

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
95	2	15	B	B	B	A	A	C	D	D	D	D	D	C	B	A	A	A	C	D	E	E	E	F	F	G
95	2	16	F	F	E	E	E	F	F	G	E	D	C	B	C	C	D	D	D	E	F	G	G	G	G	G
95	2	17	G	F	F	F	F	F	F	F	E	D	D	C	B	B	C	D	D	E	F	F	F	E	E	E
95	2	18	E	E	F	F	E	E	F	F	E	D	C	C	C	B	C	D	D	E	G	G	F	E	E	E
95	2	19	E	E	E	E	E	E	E	E	D	C	A	C	C	C	C	D	D	E	G	G	G	G	F	F
95	2	20	E	E	F	E	E	E	E	E	D	D	B	A	A	A	B	B	D	E	E	E	E	E	E	E
95	2	21	G	G	G	G	G	-	-	-	E	D	D	B	B	B	B	C	D	E	G	F	F	F	F	F
95	2	22	E	F	F	G	G	G	G	G	G	E	C	C	C	B	B	D	D	E	G	F	E	E	E	E
95	2	23	E	E	E	E	E	D	E	E	D	C	A	A	A	A	A	B	D	E	E	E	E	E	E	E
95	2	24	E	F	F	G	G	G	G	F	E	D	C	A	A	A	A	B	D	E	F	F	F	F	F	E
95	2	25	E	E	E	E	E	E	E	F	D	D	B	B	A	B	A	C	D	E	F	F	F	F	E	E
95	2	26	F	G	G	G	G	G	G	F	D	D	B	C	B	C	B	-	-	-	-	-	-	-	-	-
95	2	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	B	B	B	B	C	D	D	D	D
95	2	28	D	D	D	D	C	D	D	D	D	B	B	A	A	A	A	A	B	D	D	D	D	E	E	E
95	3	1	E	E	E	E	E	D	D	D	C	B	C	A	B	A	A	A	C	D	D	D	D	D	D	D
95	3	2	D	D	D	D	D	D	D	D	D	C	C	C	D	C	C	C	D	D	E	E	E	F	G	F
95	3	3	F	F	F	E	E	F	E	E	D	C	B	A	C	A	A	A	C	D	E	F	E	E	E	E
95	3	4	E	E	E	E	D	D	D	D	D	D	D	D	C	C	D	D	B	A	A	B	B	A	A	A
95	3	5	B	B	B	A	A	B	B	B	D	D	D	C	C	C	C	D	D	D	D	D	D	D	D	D
95	3	6	D	D	D	D	D	D	D	D	C	B	A	A	B	B	A	C	D	C	A	A	B	D	D	D
95	3	7	D	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	E	E	E	E	E	E	E
95	3	8	D	D	E	E	D	D	D	D	C	C	D	C	D	D	C	D	D	D	D	D	E	E	E	E
95	3	9	E	E	E	E	E	E	D	D	C	C	B	B	B	C	A	C	D	E	E	E	E	E	E	E
95	3	10	F	F	E	E	E	E	E	E	D	D	D	C	C	B	C	D	D	E	E	F	F	E	E	F
95	3	11	F	F	G	F	F	F	F	E	D	C	B	A	A	A	A	C	D	D	E	E	E	E	E	E
95	3	12	E	E	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	3	13	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	14	-	-	-	-	-	-	-	-	-	-	-	A	A	A	A	B	D	D	D	D	D	D	B	-
95	3	15	-	-	-	-	-	-	-	-	-	A	A	B	A	B	A	A	C	D	F	G	G	G	G	G
95	3	16	G	G	G	G	G	G	G	G	E	B	C	C	B	C	B	B	C	D	F	G	G	G	G	G
95	3	17	G	E	E	E	E	D	E	D	A	A	A	A	A	A	A	B	C	D	E	F	F	F	F	F
95	3	18	E	E	E	E	E	E	E	E	D	D	B	A	A	B	A	C	D	D	D	D	D	E	E	F
95	3	19	F	F	E	E	E	C	C	A	A	A	B	A	A	A	A	A	D	D	E	F	D	D	-	-
95	3	20	-	A	D	D	D	D	D	D	D	D	D	B	B	A	B	C	D	D	E	E	E	F	F	E
95	3	21	E	E	E	E	E	E	D	D	C	A	A	A	A	B	A	B	D	D	E	E	E	D	D	D
95	3	22	D	D	D	D	D	D	D	D	D	D	D	D	C	A	A	A	C	D	E	E	E	E	D	D
95	3	23	C	D	D	C	D	D	D	D	B	A	A	A	A	A	A	A	B	D	E	E	F	F	E	E
95	3	24	E	E	E	E	E	E	E	D	B	A	A	A	A	A	A	A	C	D	D	D	D	D	D	D
95	3	25	D	D	D	D	D	D	D	D	D	D	D	D	D	D	-	-	-	-	-	-	-	-	-	-
95	3	26	-	A	D	C	B	B	C	C	B	A	A	A	A	B	B	D	D	D	D	D	D	D	D	D
95	3	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
95	3	28	D	D	D	D	D	D	D	D	D	D	C	C	C	C	D	D	D	D	D	D	D	D	D	D
95	3	29	D	D	D	D	D	D	D	D	D	D	C	C	C	D	D	D	D	D	D	E	E	E	D	D
95	3	30	D	D	D	D	D	D	D	D	D	D	D	D	B	B	B	B	C	D	D	E	E	E	E	E
95	3	31	E	E	E	E	E	E	E	D	C	B	B	A	A	B	B	C	D	D	D	E	E	E	E	E

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

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
95	4	1	E	E	E	E	E	E	E	D	D	B	A	A	A	A	A	B	C	D	E	G	G	G	G	G
95	4	2	G	G	G	G	G	G	F	E	D	B	A	A	A	A	A	A	C	D	E	F	E	E	E	E
95	4	3	D	D	D	C	D	E	F	E	D	D	B	B	B	A	C	D	D	D	D	D	D	D	D	D
95	4	4	D	D	D	D	D	D	D	D	B	B	B	C	B	B	A	A	C	D	D	E	E	E	E	E
95	4	5	E	E	E	D	D	D	D	D	A	A	A	A	A	A	A	A	B	D	E	E	E	E	D	D
95	4	6	F	G	G	G	G	F	F	E	D	D	C	A	A	A	A	B	B	D	C	E	E	E	F	F
95	4	7	F	E	E	E	E	E	E	D	C	C	A	A	B	B	A	A	D	D	E	E	E	E	D	D
95	4	8	E	D	D	D	D	D	D	A	A	A	A	A	A	A	A	B	B	D	D	D	D	D	D	D
95	4	9	D	D	D	D	D	D	D	D	B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	10	-	A	B	D	A	B	B	A	-	-	-	-	-	-	-	-	A	A	-	-	-	-	-	-
95	4	11	-	-	-	-	-	-	-	-	-	-	-	B	C	D	D	D	D	D	D	D	D	D	D	D
95	4	12	D	C	C	D	D	D	D	B	A	C	D	D	D	D	D	D	D	D	E	E	E	E	F	
95	4	13	F	F	F	G	F	F	F	E	D	B	B	B	B	B	C	B	C	D	E	E	E	F	F	F
95	4	14	F	E	E	E	E	E	E	E	C	A	A	A	A	A	A	B	B	D	E	E	E	E	E	E
95	4	15	E	E	E	E	E	E	D	D	C	B	B	A	A	A	A	B	B	D	E	F	G	G	G	E
95	4	16	E	E	E	E	E	D	D	D	C	C	C	C	D	D	D	D	B	B	D	D	D	D	D	D
95	4	17	D	D	D	D	D	D	D	D	C	C	C	C	C	D	D	D	D	B	A	-	-	-	-	-
95	4	18	-	-	-	-	-	-	C	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	4	19	D	D	D	D	D	D	D	C	A	B	A	A	A	A	A	A	B	D	D	D	E	E	D	D
95	4	20	D	D	A	-	-	-	-	-	-	-	-	A	D	D	D	D	D	D	D	D	D	D	D	D
95	4	21	D	D	D	D	D	D	D	D	D	A	C	A	B	A	C	D	D	D	E	F	G	G	G	G
95	4	22	E	E	F	F	G	F	F	D	A	A	A	A	A	A	B	B	D	D	E	E	E	E	E	E
95	4	23	E	E	E	E	E	E	E	D	C	B	B	B	B	C	B	B	C	D	D	F	G	G	G	G
95	4	24	F	F	E	E	E	D	D	C	B	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	25	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	A	C	D	D	E	E	C	A	A
95	4	26	A	D	E	E	E	D	D	-	-	-	-	-	-	-	-	-	-	-	D	D	E	E	E	E
95	4	27	E	E	E	E	E	E	D	D	D	D	C	C	C	D	D	D	D	D	D	F	F	F	F	F
95	4	28	F	E	E	E	F	F	E	D	C	C	B	B	A	A	A	B	C	D	D	E	E	E	E	D
95	4	29	D	D	D	D	D	D	C	B	C	C	C	A	A	B	C	C	B	B	B	A	A	A	A	B
95	4	30	B	B	A	B	B	B	B	B	C	C	C	D	D	D	D	D	D	B	-	-	-	-	-	A
95	5	1	A	A	A	D	D	D	D	D	D	C	C	C	C	C	B	C	D	D	D	E	E	F	F	G
95	5	2	G	G	G	G	G	G	F	D	C	A	A	C	B	A	A	B	C	D	D	E	D	E	D	D
95	5	3	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	4	-	-	-	-	-	-	-	-	-	A	B	B	D	D	D	C	D	D	D	D	E	E	E	E
95	5	5	F	E	E	E	F	G	E	C	B	C	D	C	C	B	C	C	C	D	D	E	E	E	E	E
95	5	6	E	E	E	E	E	D	D	D	D	C	B	D	D	C	B	B	D	D	D	D	D	D	C	B
95	5	7	A	A	A	A	A	A	A	A	A	A	B	C	B	-	-	-	-	-	-	-	-	-	-	-
95	5	8	-	-	-	-	-	-	-	-	A	A	A	C	D	D	D	A	D	B	D	D	A	D	D	E
95	5	9	E	E	D	D	D	B	D	C	B	D	B	B	D	D	C	D	D	D	D	D	D	D	A	-
95	5	10	-	-	-	-	-	-	-	A	A	A	A	B	C	C	D	D	D	D	D	D	D	D	D	D
95	5	11	D	D	C	A	A	A	A	B	C	B	A	C	C	B	C	C	C	D	D	E	E	F	F	E
95	5	12	F	E	E	E	E	E	D	D	D	C	-	-	-	-	-	-	-	A	C	C	C	-	-	-
95	5	13	-	-	-	-	-	-	A	A	B	A	C	C	C	D	D	D	D	D	E	E	E	E	D	D
95	5	14	D	D	D	D	D	D	D	C	C	D	C	C	B	B	A	B	C	D	D	F	F	G	G	G
95	5	15	G	G	G	G	G	F	F	E	B	A	A	A	A	A	A	A	C	D	D	E	F	F	E	E

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

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
95	5	16	E	E	E	E	F	E	E	D	D	C	B	D	D	D	C	D	D	D	D	D	D	D	D	D
95	5	17	D	D	D	D	C	B	D	D	D	D	B	A	B	B	D	D	D	D	D	D	D	D	D	D
95	5	18	A	A	C	D	D	D	D	C	D	C	D	C	B	B	B	B	C	D	D	F	G	F	F	F
95	5	19	F	F	F	F	F	F	F	D	C	C	C	B	C	C	B	B	C	D	D	F	F	F	E	E
95	5	20	E	E	E	D	D	D	D	D	C	B	B	C	D	D	D	D	D	D	D	E	E	E	E	E
95	5	21	E	E	E	F	F	F	E	D	C	B	A	A	A	A	A	A	B	D	D	E	E	E	E	E
95	5	22	E	E	E	D	D	D	B	B	A	A	A	A	A	A	A	A	A	D	D	D	-	-	-	-
95	5	23	-	-	-	-	-	-	-	-	-	-	A	B	B	C	C	D	D	D	D	D	D	D	D	D
95	5	24	D	D	D	D	D	D	D	D	C	B	A	A	A	B	B	B	D	D	D	E	E	D	D	E
95	5	25	E	F	F	E	E	E	E	D	C	B	B	B	A	A	A	A	B	C	D	D	E	E	F	E
95	5	26	E	E	D	D	D	C	C	B	B	C	B	A	-	-	-	-	A	A	A	A	A	A	A	-
95	5	27	-	-	-	-	-	-	-	-	-	-	-	-	A	A	A	B	D	D	D	D	E	E	D	D
95	5	28	D	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E
95	5	29	E	E	E	E	E	E	D	D	C	A	A	A	B	B	B	D	D	D	D	F	G	G	G	G
95	5	30	G	G	G	G	F	G	F	D	A	A	A	A	A	A	A	A	A	B	D	D	E	E	E	E
95	5	31	E	E	E	E	E	E	D	D	C	B	A	A	A	A	C	-	-	-	-	-	-	-	-	-
95	6	1	-	-	-	-	-	-	-	-	-	A	A	C	B	C	C	D	D	C	D	D	D	E	E	D
95	6	2	D	D	A	D	D	A	-	-	-	-	A	A	A	A	B	B	C	D	D	E	F	F	E	E
95	6	3	E	E	D	C	B	C	C	A	A	A	A	A	A	A	B	C	C	D	C	A	A	C	C	B
95	6	4	C	D	D	D	D	D	D	-	-	-	-	-	-	A	A	A	A	C	D	E	E	E	E	D
95	6	5	D	D	B	A	A	C	B	-	-	-	-	A	A	A	A	A	A	B	D	D	E	E	D	-
95	6	6	-	-	-	-	-	B	A	A	A	A	A	A	A	A	A	A	B	C	D	E	E	E	E	E
95	6	7	D	D	D	D	-	-	-	-	A	A	A	A	A	B	C	C	D	D	D	E	D	D	D	B
95	6	8	B	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	A	A	A	A	A	A	A	A
95	6	9	A	A	-	-	-	-	-	-	-	-	A	A	A	A	A	A	B	A	A	D	D	B	-	D
95	6	10	D	D	D	D	D	D	D	D	D	C	C	C	C	C	C	C	C	D	D	D	D	D	D	D
95	6	11	D	D	D	D	D	D	D	C	B	A	A	A	B	B	A	C	C	D	D	F	G	G	F	F
95	6	12	F	F	G	G	G	G	E	D	C	C	B	A	A	A	A	B	C	D	D	F	G	G	G	G
95	6	13	G	F	G	F	F	F	E	D	D	C	C	B	B	A	A	A	A	B	B	-	-	E	E	E
95	6	14	E	E	E	E	E	D	D	B	A	A	-	-	-	-	-	-	-	A	C	D	E	E	D	D
95	6	15	D	D	D	D	D	D	C	A	-	-	-	-	-	-	-	-	B	B	D	D	D	D	D	D
95	6	16	D	D	D	D	D	D	D	D	C	B	A	A	A	A	A	A	A	C	C	D	D	D	E	D
95	6	17	E	E	E	E	E	D	C	C	B	B	B	A	B	A	A	A	A	B	C	D	E	E	E	E
95	6	18	E	E	E	E	E	E	D	C	C	B	B	B	B	A	A	A	B	D	D	E	E	F	E	E
95	6	19	E	E	E	E	F	F	E	D	C	C	A	A	B	B	A	A	B	D	D	E	F	F	E	E
95	6	20	E	E	F	F	E	E	D	C	B	C	B	B	A	A	-	-	-	A	D	E	G	G	F	G
95	6	21	G	G	G	G	G	G	F	E	D	B	A	A	A	A	A	A	A	B	D	E	G	G	F	G
95	6	22	G	F	E	E	E	F	E	B	A	A	A	-	-	-	-	-	-	A	C	D	E	E	F	E
95	6	23	E	E	E	F	F	D	D	C	A	A	A	A	A	B	A	E	E	F	F	F	G	G	F	F
95	6	24	E	F	E	E	E	D	D	D	D	C	D	E	D	C	C	B	D	D	D	D	D	D	D	E
95	6	25	E	E	D	D	D	A	B	D	C	-	-	-	-	-	-	-	B	D	C	-	-	-	-	-
95	6	26	-	A	A	A	A	B	A	-	-	-	-	A	B	C	B	C	C	C	D	D	D	D	D	D
95	6	27	D	D	D	D	D	D	D	C	C	C	B	A	B	C	B	A	C	D	D	E	F	F	F	E
95	6	28	E	E	E	A	C	D	C	C	A	A	B	B	B	A	A	A	C	D	D	D	E	E	D	E
95	6	29	E	E	D	D	D	D	D	C	B	C	A	A	A	B	A	B	C	D	D	E	E	E	E	E

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 10M WIND VS 60-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

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
95	6	30	E	E	E	E	E	D	D	C	B	B	A	A	A	A	A	A	A	C	D	D	F	F	G	G

JFDs of 100-Meter Wind vs. Delta T

January-March 1995

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 3/31/95

*** JAN-MAR 1995 ***

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 AT100.00 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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7.51-12.50	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
12.51-18.50	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7
18.51-24.00	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8	2	0	0	0	0	0	1	0	0	0	0	0	0	0	1	12

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 AT100.00 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	1	0	1	2	2	0	0	0	0	0	0	1	0	0	9
7.51-12.50	1	2	4	2	0	1	0	0	0	3	0	0	0	0	3	0	16
12.51-18.50	8	1	0	0	0	2	0	0	3	1	1	0	0	0	4	11	31
18.51-24.00	3	0	0	0	0	0	1	0	2	1	0	0	0	0	0	4	11
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	3
TOTAL	13	4	5	2	1	5	3	0	6	5	1	0	0	1	7	17	70

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 3/31/95

*** JAN-MAR 1995 ***

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 AT100.00 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	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	3
3.51- 7.50	4	1	2	1	0	6	1	1	1	4	0	0	0	0	0	0	21
7.51-12.50	8	2	1	2	2	1	4	1	0	3	5	0	0	0	0	6	35
12.51-18.50	8	1	0	0	0	3	2	0	3	2	4	1	0	0	6	10	40
18.51-24.00	2	0	0	0	0	0	0	2	3	7	0	0	0	0	3	9	26
>24.00	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	4	8
TOTAL	22	4	3	3	2	11	7	4	10	17	10	1	0	1	9	29	134

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 AT100.00 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	2	6	2	1	1	5	4	2	2	2	4	0	1	3	3	1	39
3.51- 7.50	15	10	11	4	4	8	15	12	7	10	9	6	8	6	5	8	138
7.51-12.50	25	13	16	5	5	4	29	14	9	10	8	2	4	11	23	39	217
12.51-18.50	34	19	2	0	0	9	23	3	5	5	0	0	4	2	42	53	201
18.51-24.00	12	8	0	0	0	0	6	3	22	4	0	2	8	3	20	46	134
>24.00	0	0	0	0	0	0	2	0	20	3	1	0	4	0	2	26	58
TOTAL	88	56	31	10	10	26	79	34	65	34	22	10	29	25	95	173	789

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 3/31/95

*** JAN-MAR 1995 ***

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 AT100.00 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	0	0	0	2	0	2	0	3	0	0	1	0	0	1	0	1	10
3.51- 7.50	6	1	0	6	2	4	2	6	0	4	6	2	1	2	3	2	47
7.51-12.50	12	4	3	4	1	0	8	10	6	16	14	3	4	6	16	26	133
12.51-18.50	5	2	1	0	0	0	9	1	10	21	9	5	1	2	19	25	110
18.51-24.00	0	0	0	0	0	0	10	3	16	5	7	4	1	2	10	14	72
>24.00	0	0	0	0	0	0	14	8	7	2	0	1	3	0	5	0	40
TOTAL	23	7	4	12	3	6	43	31	39	48	37	15	10	13	53	68	416

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 AT100.00 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	1	1	1	1	2	0	0	0	1	1	0	0	0	1	11
3.51- 7.50	3	1	2	0	2	0	1	5	0	6	5	0	3	1	1	3	33
7.51-12.50	3	0	0	0	0	1	2	3	4	9	9	3	4	10	4	2	54
12.51-18.50	0	1	0	0	0	0	1	2	2	19	7	4	1	2	2	4	45
18.51-24.00	0	0	0	0	0	0	0	0	0	0	1	0	3	2	3	0	9
>24.00	0	0	0	0	0	0	0	0	0	0	0	2	0	5	3	0	10
TOTAL	6	4	3	1	3	2	6	10	6	34	23	10	11	20	13	10	162

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 3/31/95

*** JAN-MAR 1995 ***

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 AT100.00 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	3	3	2	0	1	0	1	0	0	0	0	1	0	13
3.51- 7.50	2	2	0	0	1	1	2	4	2	4	0	0	1	1	0	3	23
7.51-12.50	0	0	0	0	0	0	4	2	0	4	2	0	0	3	2	0	17
12.51-18.50	0	0	0	0	0	0	1	0	0	0	2	1	0	0	0	0	4
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	4	2	0	3	4	3	7	7	2	9	4	1	1	4	3	3	57

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 AT100.00 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	4	8	3	7	5	11	6	6	2	3	7	1	1	5	4	3	76
3.51- 7.50	31	17	16	11	10	21	23	28	10	28	20	8	13	11	9	16	272
7.51-12.50	49	22	24	13	8	7	47	31	19	45	38	8	12	30	48	73	474
12.51-18.50	61	24	3	0	0	14	36	6	23	48	23	11	6	6	73	104	438
18.51-24.00	19	8	0	0	0	0	17	8	43	17	8	6	12	7	36	73	254
>24.00	0	0	0	0	0	0	16	8	31	6	1	3	7	5	10	32	119
TOTAL	164	79	46	31	23	53	145	87	128	147	97	37	51	64	180	301	1640

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-MAR 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 3/31/95

*** JAN-MAR 1995 ***

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: 1640

TOTAL NUMBER OF MISSING OBSERVATIONS: 520

PERCENT DATA RECOVERY FOR THIS PERIOD: 75.9 %

MEAN WIND SPEED FOR THIS PERIOD: 13.2 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
0.73	4.27	8.17	48.11	25.37	9.88	3.48

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	8	2	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0
B	13	4	5	2	1	5	3	0	6	5	1	0	0	1	7	17	0
C	22	4	3	3	2	11	7	4	10	17	10	1	0	1	9	29	1
D	88	56	31	10	10	26	79	34	65	34	22	10	29	25	95	173	2
E	23	7	4	12	3	6	43	31	39	48	37	15	10	13	53	68	4
F	6	4	3	1	3	2	6	10	6	34	23	10	11	20	13	10	0
G	4	2	0	3	4	3	7	7	2	9	4	1	1	4	3	3	0
TOTAL	164	79	46	31	23	53	145	87	128	147	97	37	51	64	180	301	7

JFDs of 100-Meter Wind vs. Delta T

April-June 1995

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

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 AT100.00 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	1	0	0	0	0	0	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	2	1	3	0	0	0	0	0	0	0	0	0	6
18.51-24.00	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	0	0	3	1	3	0	0	1	0	0	0	0	0	0	8

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 AT100.00 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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7.51-12.50	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	4
12.51-18.50	0	0	0	0	0	0	3	1	1	0	0	0	0	0	0	0	5
18.51-24.00	0	0	0	0	0	0	0	1	2	0	1	0	0	0	0	0	4
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	0	1	0	2	0	3	4	3	0	1	0	0	0	0	0	14

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

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 AT100.00 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	1	0	1	1	0	2	1	0	0	0	0	0	0	0	0	6
7.51-12.50	0	0	1	1	0	3	0	1	3	1	0	0	0	1	0	0	11
12.51-18.50	0	0	2	0	0	2	5	3	3	1	0	0	0	2	0	0	18
18.51-24.00	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	2
>24.00	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
TOTAL	0	1	3	2	1	5	7	7	7	3	0	0	C	3	0	0	39

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 AT100.00 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	2	0	0	0	0	0	0	0	0	1	0	0	0	0	3
3.51- 7.50	3	2	1	3	3	3	1	3	0	0	0	0	0	0	0	2	21
7.51-12.50	0	3	1	2	7	3	5	2	1	3	2	0	2	3	2	0	36
12.51-18.50	0	2	7	0	1	16	14	9	1	1	0	1	0	6	2	1	61
18.51-24.00	1	0	0	0	0	1	2	5	1	3	0	1	2	1	0	1	18
>24.00	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
TOTAL	4	7	11	5	11	23	23	19	3	7	2	3	4	10	4	4	140

B100

0018

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

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 AT100.00 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	1	0	0	0	0	0	0	0	1
3.51- 7.50	1	3	0	0	1	0	1	0	0	0	1	0	0	0	0	5	12
7.51-12.50	0	3	0	0	0	0	4	3	2	5	0	0	0	0	0	0	17
12.51-18.50	0	0	0	0	0	1	15	4	0	0	0	0	0	0	0	1	21
18.51-24.00	0	0	0	0	0	0	1	1	1	0	0	0	0	0	7	2	12
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
TOTAL	1	6	0	0	1	1	21	8	5	5	1	0	0	0	7	8	64

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 AT100.00 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	2	0	0	0	0	0	0	0	0	0	0	0	3
3.51- 7.50	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
7.51-12.50	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
12.51-18.50	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	4
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	0	3	1	0	2	0	0	0	0	5	0	0	0	0	0	0	11

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

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 AT100.00 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	1	0	0	0	0	0	0	0	0	0	0	0	0	1
3.51- 7.50	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7.51-12.50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12.51-18.50	0	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	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	5

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 AT100.00 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	2	1	2	0	0	0	1	0	0	1	0	0	0	0	8
3.51- 7.50	5	11	3	4	5	3	4	4	0	0	1	0	0	0	0	7	47
7.51-12.50	0	6	2	3	10	6	9	8	6	10	2	0	2	4	2	0	70
12.51-18.50	0	2	9	0	3	20	40	17	5	6	0	1	0	8	2	2	115
18.51-24.00	1	0	0	0	0	1	3	8	4	5	1	1	2	1	7	3	37
>24.00	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	4
TOTAL	6	20	16	8	20	30	57	38	18	21	4	3	4	13	11	12	281

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T APR-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 4/ 1/95 - 6/30/95

*** APR-JUN 1995 ***

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: 281

TOTAL NUMBER OF MISSING OBSERVATIONS: 1903

PERCENT DATA RECOVERY FOR THIS PERIOD: 12.9 %

MEAN WIND SPEED FOR THIS PERIOD: 13.0 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
2.85	4.98	13.88	49.82	22.78	3.91	1.78

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	3	1	3	0	0	1	0	0	0	0	0	0	0
B	0	0	1	0	2	0	3	4	3	0	1	0	0	0	0	0	0
C	0	1	3	2	1	5	7	7	7	3	0	0	0	3	0	0	0
D	4	7	11	5	11	23	23	19	3	7	2	3	4	10	4	4	0
E	1	6	0	0	1	1	21	8	5	5	1	0	0	0	7	8	0
F	0	3	1	0	2	0	0	0	0	5	0	0	0	0	0	0	0
G	1	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	6	20	16	8	20	30	57	38	18	21	4	3	4	13	11	12	0

JFDs of 100-Meter Wind vs. Delta T

January-June 1995

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

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 AT100.00 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	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7.51-12.50	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	3
12.51-18.50	6	0	0	0	2	1	3	0	0	0	0	0	0	0	0	1	13
18.51-24.00	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	8	2	0	0	3	1	3	1	0	1	0	0	0	0	0	1	20

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 AT100.00 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	2	0	1	2	2	0	0	0	0	0	0	1	0	0	10
7.51-12.50	1	2	4	2	2	1	0	2	0	3	0	0	0	0	3	0	20
12.51-18.50	8	1	0	0	0	2	3	1	4	1	1	0	0	0	4	11	36
18.51-24.00	3	0	0	0	0	0	1	1	4	1	1	0	0	0	0	4	15
>24.00	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	3
TOTAL	13	4	6	2	3	5	6	4	9	5	2	0	0	1	7	17	84

B105

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

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 AT100.00 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	0	0	0	0	0	1	0	0	0	0	1	0	0	1	0	0	3
3.51- 7.50	4	2	2	2	1	6	3	2	1	4	0	0	0	0	0	0	27
7.51-12.50	8	2	2	3	2	4	4	2	3	4	5	0	0	1	0	6	46
12.51-18.50	8	1	2	0	0	5	7	3	6	3	4	1	0	2	6	10	58
18.51-24.00	2	0	0	0	0	0	0	3	3	8	0	0	0	0	3	9	28
>24.00	0	0	0	0	0	0	0	1	4	1	0	0	0	0	0	4	10
TOTAL	22	5	6	5	3	16	14	11	17	20	10	1	0	4	9	29	173

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 AT100.00 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	2	6	4	1	1	5	4	2	2	2	4	1	1	3	3	1	42
3.51- 7.50	18	12	12	7	7	11	16	15	7	10	9	6	8	6	5	10	159
7.51-12.50	25	16	17	7	12	7	34	16	10	13	10	2	6	14	25	39	253
12.51-18.50	34	21	9	0	1	25	37	12	6	6	0	1	4	8	44	54	262
18.51-24.00	13	8	0	0	0	1	8	8	23	7	0	3	10	4	20	47	152
>24.00	0	0	0	0	0	0	3	0	20	3	1	0	4	0	2	26	59
TOTAL	92	63	42	15	21	49	102	53	68	41	24	13	33	35	99	177	929

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

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 AT100.00 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	0	0	0	2	0	2	0	3	1	0	1	0	0	1	0	1	11
3.51- 7.50	7	4	0	6	3	4	3	6	0	4	7	2	1	2	3	7	59
7.51-12.50	12	7	3	4	1	0	12	13	8	21	14	3	4	6	16	26	150
12.51-18.50	5	2	1	0	0	1	24	5	10	21	9	5	1	2	19	26	131
18.51-24.00	0	0	0	0	0	0	11	4	17	5	7	4	1	2	17	16	84
>24.00	0	0	0	0	0	0	14	8	8	2	0	1	3	0	5	0	41
TOTAL	24	13	4	12	4	7	64	39	44	53	38	15	10	13	60	76	480

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 AT100.00 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	1	1	3	1	2	0	0	0	1	1	0	0	0	1	14
3.51- 7.50	3	3	3	0	2	0	1	5	0	6	5	0	3	1	1	3	36
7.51-12.50	3	0	0	0	0	1	2	3	4	10	9	3	4	10	4	2	55
12.51-18.50	0	1	0	0	0	0	1	2	2	23	7	4	1	2	2	4	49
18.51-24.00	0	0	0	0	0	0	0	0	0	0	1	0	3	2	3	0	9
>24.00	0	0	0	0	0	0	0	0	0	0	0	2	0	5	3	0	10
TOTAL	6	7	4	1	5	2	6	10	6	39	23	10	11	20	13	10	173

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

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 AT100.00 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	4	3	2	0	1	0	1	0	0	0	0	1	0	14
3.51- 7.50	3	5	0	0	1	1	2	4	2	4	0	0	1	1	0	3	27
7.51-12.50	0	0	0	0	0	0	4	2	0	4	2	0	0	3	2	0	17
12.51-18.50	0	0	0	0	0	0	1	0	0	0	2	1	0	0	0	0	4
18.51-24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
>24.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	5	5	0	4	4	3	7	7	2	9	4	1	1	4	3	3	62

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 AT100.00 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	4	9	5	8	7	11	6	6	3	3	7	2	1	5	4	3	84
3.51- 7.50	36	28	19	15	15	24	27	32	10	28	21	8	13	11	9	23	319
7.51-12.50	49	28	26	16	18	13	56	39	25	55	40	8	14	34	50	73	544
12.51-18.50	61	26	12	0	3	34	76	23	28	54	23	12	6	14	75	106	553
18.51-24.00	20	8	0	0	0	1	20	16	47	22	9	7	14	8	43	76	291
>24.00	0	0	0	0	0	0	17	9	33	6	1	3	7	5	10	32	123
TOTAL	170	99	62	39	43	83	202	125	146	168	101	40	55	77	191	313	1921

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

*** JAN-JUN 1995 ***

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: 1921

TOTAL NUMBER OF MISSING OBSERVATIONS: 2423

PERCENT DATA RECOVERY FOR THIS PERIOD: 44.2 %

MEAN WIND SPEED FOR THIS PERIOD: 13.2 MPH

TOTAL NUMBER OF OBSERVATIONS WITH BACKUP DATA: 0

PERCENTAGE OCCURRENCE OF STABILITY CLASSES

A	B	C	D	E	F	G
1.04	4.37	9.01	48.36	24.99	9.01	3.23

DISTRIBUTION OF WIND DIRECTION VS STABILITY

	N	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	CALM
A	8	2	0	0	3	1	3	1	0	1	0	0	0	0	0	1	0
B	13	4	6	2	3	5	6	4	9	5	2	0	0	1	7	17	0
C	22	5	6	5	3	16	14	11	17	20	10	1	0	4	9	29	1
D	92	63	42	15	21	49	102	53	68	41	24	13	33	35	99	177	2
E	24	13	4	12	4	7	64	39	44	53	38	15	10	13	60	76	4
F	6	7	4	1	5	2	6	10	6	39	23	10	11	20	13	10	0
G	5	5	0	4	4	3	7	7	2	9	4	1	1	4	3	3	0
TOTAL	170	99	62	39	43	83	202	125	146	168	101	40	55	77	191	313	7

Stability Classes by Hour of Day

100-Meter Wind vs. Delta T

January-June 1995

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

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
95	1	1	D	E	E	F	F	F	F	F	E	E	D	D	D	D	D	D	D	E	E	E	E	E	E	E
95	1	2	E	F	E	F	F	F	F	F	F	E	E	D	D	D	D	D	D	E	E	E	F	E	E	D
95	1	3	D	D	D	D	D	D	D	E	E	D	D	D	D	D	D	D	D	E	E	F	F	G	F	F
95	1	4	G	G	G	G	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	F	F	F	F	F
95	1	5	F	F	F	F	F	E	E	E	E	D	D	D	D	D	D	D	D	D	D	E	D	D	D	D
95	1	6	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	1	7	E	E	E	E	E	E	F	F	F	F	E	E	D	D	D	D	E	E	E	F	F	F	F	F
95	1	8	F	F	F	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	F	F	F
95	1	9	G	G	G	G	G	G	G	F	F	E	E	D	D	D	D	D	E	E	E	E	E	E	E	E
95	1	10	E	E	D	D	D	D	D	D	D	D	D	D	E	E	D	D	D	D	D	D	D	D	D	E
95	1	11	E	E	E	E	E	E	E	E	D	D	E	E	D	D	D	D	D	D	D	D	E	E	E	E
95	1	12	E	E	D	D	D	D	D	D	E	E	E	D	D	D	D	D	E	E	E	E	E	E	E	E
95	1	13	E	E	E	D	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	1	14	D	D	D	D	D	D	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D	D	D	D
95	1	15	D	D	D	D	D	D	D	D	D	D	D	D	C	A	C	D	E	E	E	E	E	E	E	E
95	1	16	E	E	E	E	E	E	E	E	E	D	D	D	D	D	E	E	E	E	E	E	E	E	E	E
95	1	17	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	F	F	F	F	F	F
95	1	18	G	G	G	F	F	G	F	F	F	E	E	D	D	D	D	D	D	E	E	E	E	E	E	E
95	1	19	E	D	D	D	E	D	E	D	D	D	D	C	C	B	D	D	D	E	E	E	E	E	E	D
95	1	20	D	D	D	D	D	D	D	D	D	D	C	D	D	C	D	D	D	D	D	D	D	D	D	D
95	1	21	D	D	D	D	D	D	D	D	D	D	D	C	B	D	D	D	D	D	D	E	E	E	E	E
95	1	22	E	E	E	E	D	D	E	D	D	D	D	C	C	C	D	D	D	D	D	D	D	D	D	D
95	1	23	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	E	D	D
95	1	24	D	D	D	E	E	D	D	D	D	D	D	D	B	C	D	D	D	E	F	G	G	G	G	G
95	1	25	F	E	E	E	E	D	D	D	D	D	D	C	C	C	C	D	D	D	E	E	E	E	F	F
95	1	26	F	F	F	F	F	G	F	F	E	D	D	D	C	C	D	D	D	E	E	E	D	D	D	D
95	1	27	D	D	C	C	D	D	D	C	D	D	D	C	C	D	D	D	D	D	D	D	D	D	-	-
95	1	28	-	-	-	-	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	1	29	D	D	D	C	D	D	D	D	C	B	B	B	B	B	B	B	B	C	D	E	D	D	D	E
95	1	30	E	E	D	D	D	D	E	E	D	D	D	D	C	C	C	C	D	E	E	E	E	E	E	E
95	1	31	E	F	E	E	F	F	-	-	-	D	D	D	D	D	D	D	D	E	F	F	F	F	F	E
95	2	1	E	E	D	E	E	E	E	E	F	E	D	C	B	C	D	D	D	E	G	F	F	F	F	F
95	2	2	F	F	F	E	E	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	2	3	-	-	-	-	-	-	-	-	-	-	-	-	D	D	D	D	D	D	D	D	D	D	D	D
95	2	4	D	D	D	D	D	D	D	D	D	D	D	C	C	C	D	C	D	D	D	D	D	D	D	D
95	2	5	D	D	D	B	D	D	D	D	D	D	D	D	D	D	D	B	-	-	-	-	-	-	-	-
95	2	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D	D	D	D	D	E	F	F
95	2	7	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	2	8	D	E	E	E	E	E	E	E	E	D	D	D	D	D	D	D	D	E	E	E	E	E	E	E
95	2	9	F	E	E	E	E	F	F	F	E	E	D	D	D	D	D	D	D	E	F	F	F	F	F	E
95	2	10	F	E	E	E	D	D	D	D	D	D	C	C	C	C	B	C	D	D	D	E	E	E	F	F
95	2	11	E	D	D	D	D	D	D	D	D	C	C	C	C	B	C	C	D	D	E	E	E	E	E	F
95	2	12	F	E	F	F	F	F	F	F	E	D	D	D	D	D	D	D	D	D	D	D	E	D	D	D
95	2	13	D	D	D	D	E	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	2	14	D	D	D	D	D	D	D	D	D	D	D	D	D	B	-	-	-	-	-	-	-	-	-	-

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

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
95	2	15	-	-	-	-	-	-	-	-	D	D	D	C	C	B	B	B	D	D	E	E	E	E	F	F
95	2	16	E	E	E	E	E	F	F	F	D	D	D	C	C	C	D	D	D	E	F	G	G	G	G	G
95	2	17	G	F	G	F	F	F	F	F	E	D	D	C	C	C	C	D	D	E	F	F	F	E	E	E
95	2	18	E	E	E	E	E	E	E	F	E	D	D	C	C	C	C	D	D	E	F	F	E	E	E	E
95	2	19	E	E	E	E	E	E	D	D	D	D	C	D	C	D	D	D	D	E	F	G	G	G	F	F
95	2	20	E	E	E	E	E	E	E	E	D	D	C	C	B	B	C	D	D	D	E	E	E	E	E	E
95	2	21	F	F	F	G	G	-	-	-	E	D	D	C	B	C	C	D	D	E	F	F	F	F	F	E
95	2	22	E	E	F	G	G	G	F	F	G	E	D	C	C	C	C	D	D	E	F	F	E	E	E	E
95	2	23	E	E	E	E	D	D	D	E	D	B	B	B	B	B	C	C	D	D	E	E	E	E	E	E
95	2	24	E	E	F	F	F	G	G	F	E	D	D	B	B	B	B	C	D	E	E	E	F	E	E	E
95	2	25	E	E	E	E	E	E	E	E	D	D	C	C	B	C	C	D	D	E	E	F	F	E	E	E
95	2	26	E	F	F	G	G	G	G	F	E	D	C	B	B	B	B	-	-	-	-	-	-	-	-	-
95	2	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	A	B	B	B	C	C	C	D
95	2	28	D	D	D	D	D	D	D	D	D	C	C	B	A	A	B	B	C	D	D	D	D	E	D	E
95	3	1	E	E	E	E	E	D	D	D	D	C	C	B	C	A	B	B	C	D	D	D	D	D	D	D
95	3	2	D	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	E	E	E	F	F	F
95	3	3	F	F	F	F	F	E	E	E	D	D	C	B	C	B	B	C	D	D	E	E	E	E	E	E
95	3	4	E	E	E	E	D	D	D	D	D	D	D	D	D	C	D	D	C	B	B	B	C	C	B	C
95	3	5	C	C	C	B	B	B	B	A	C	C	C	C	C	C	C	C	D	D	D	D	D	D	D	D
95	3	6	D	D	D	D	D	D	D	D	D	C	B	B	C	C	B	C	D	D	C	B	B	C	D	D
95	3	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
95	3	8	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E
95	3	9	E	E	E	E	E	E	D	D	D	D	C	C	C	C	C	C	D	D	E	E	E	E	E	E
95	3	10	E	E	E	E	E	E	E	E	D	D	D	C	C	C	D	D	D	E	E	E	E	E	E	E
95	3	11	E	F	F	F	E	E	E	E	D	D	C	B	B	B	C	C	D	D	E	E	E	E	D	E
95	3	12	E	E	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
95	3	13	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	14	-	-	-	-	-	-	-	-	-	-	-	A	B	A	A	C	D	D	D	D	D	D	D	-
95	3	15	-	-	-	-	-	-	-	-	-	A	B	C	B	C	B	B	D	D	E	F	G	G	G	G
95	3	16	G	G	G	G	G	G	G	G	F	D	D	D	D	D	-	-	-	-	-	-	-	-	-	-
95	3	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	3	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

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
95	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	4	25	-	-	-	-	-	-	-	-	-	-	-	-	-	B	A	C	D	D	D	E	E	D	A	A
95	4	26	C	D	E	E	E	E	D	-	-	-	-	-	-	-	-	-	-	-	D	D	E	E	E	D
95	4	27	E	E	E	E	E	E	E	D	D	D	C	C	C	D	D	D	D	D	D	E	F	F	F	F
95	4	28	F	E	E	E	E	E	E	D	D	D	C	C	C	B	B	C	D	D	D	E	E	E	E	D
95	4	29	D	D	D	D	D	D	D	D	D	D	D	A	A	C	D	D	D	D	D	B	B	C	C	D
95	4	30	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	-	-	-	-	-	A
95	5	1	C	D	D	D	D	D	D	D	D	D	C	D	D	D	C	D	D	D	D	E	E	E	F	F
95	5	2	F	G	G	G	G	G	F	E	D	C	B	C	C	B	B	C	D	D	D	D	E	E	E	E
95	5	3	D	D	D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	4	-	-	-	-	-	-	-	-	-	B	C	C	D	D	D	D	D	D	D	D	E	E	E	E
95	5	5	E	E	E	E	E	F	F	E	D	D	D	C	D	C	D	C	D	D	D	E	E	E	E	E
95	5	6	E	E	E	E	E	E	E	D	D	D	D	D	D	D	C	C	D	D	D	D	D	D	D	D
95	5	7	C	C	C	C	B	A	A	B	B	C	C	D	D	-	-	-	-	-	-	-	-	-	-	-
95	5	8	-	-	-	-	-	-	-	-	B	B	C	D	D	D	D	C	E	D	D	D	C	D	E	E
95	5	9	E	E	E	E	D	D	D	D	C	D	C	C	D	D	D	D	D	D	D	D	D	D	D	-
95	5	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

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
95	5	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	5	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
95	6	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

PROGRAM: JFD VERSION: 5P
NPPD-COOPER NUCLEAR STATION JFD: 100M WIND VS 100-10M DELTA-T JAN-JUN 1995
SITE IDENTIFIER: NPPD
DATA PERIOD EXAMINED: 1/ 1/95 - 6/30/95

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
95	6	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

ATMOSPHERIC DIFFUSION ESTIMATES

The tables of atmospheric diffusion estimates in this section were generated using the computer code XOQDOQ. Data are given for 22 distances and 16 compass points (directions from site) centered on the Cooper Nuclear Station. Tables are presented for the ground-level (vent) and elevated (stack) release options separately, and for the following time periods: January-March, April-June, and January-June 1995.

Atmospheric Diffusion Estimates

Ground Level Releases

January-March 1995

VENTS GROUND LEVEL RELEASES - JAN-MAR 1995
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.877E-05	1.289E-05	6.753E-06	3.343E-06	1.330E-06	7.184E-07	4.524E-07	3.150E-07	2.341E-07	1.824E-07	1.471E-07
SSW	3.411E-05	1.082E-05	5.570E-06	2.763E-06	1.133E-06	6.224E-07	3.989E-07	2.810E-07	2.109E-07	1.656E-07	1.345E-07
SW	1.534E-05	5.148E-06	2.737E-06	1.364E-06	5.452E-07	2.943E-07	1.862E-07	1.298E-07	9.654E-08	7.525E-08	6.072E-08
WSW	7.820E-06	2.676E-06	1.408E-06	6.961E-07	2.756E-07	1.478E-07	9.304E-08	6.460E-08	4.790E-08	3.723E-08	2.997E-08
W	8.511E-06	2.930E-06	1.533E-06	7.552E-07	2.965E-07	1.580E-07	9.891E-08	6.836E-08	5.050E-08	3.911E-08	3.138E-08
WNW	1.262E-05	4.220E-06	2.166E-06	1.058E-06	4.157E-07	2.219E-07	1.392E-07	9.640E-08	7.134E-08	5.535E-08	4.449E-08
NW	3.354E-05	1.130E-05	5.875E-06	2.893E-06	1.149E-06	6.180E-07	3.897E-07	2.710E-07	2.012E-07	1.566E-07	1.262E-07
NNW	4.560E-05	1.430E-05	7.425E-06	3.709E-06	1.538E-06	8.512E-07	5.485E-07	3.880E-07	2.922E-07	2.301E-07	1.874E-07
N	8.168E-05	2.525E-05	1.320E-05	6.638E-06	2.764E-06	1.534E-06	9.901E-07	7.013E-07	5.287E-07	4.167E-07	3.395E-07
NNE	5.017E-05	1.565E-05	8.294E-06	4.188E-06	1.726E-06	9.515E-07	6.112E-07	4.313E-07	3.241E-07	2.547E-07	2.071E-07
NE	2.805E-05	8.815E-06	4.616E-06	2.313E-06	9.508E-07	5.232E-07	3.357E-07	2.367E-07	1.778E-07	1.397E-07	1.135E-07
ENE	8.820E-06	2.840E-06	1.505E-06	7.532E-07	3.027E-07	1.641E-07	1.041E-07	7.273E-08	5.422E-08	4.233E-08	3.421E-08
E	1.335E-05	4.556E-06	2.468E-06	1.241E-06	4.945E-07	2.662E-07	1.679E-07	1.168E-07	8.669E-08	6.743E-08	5.431E-08
ESE	2.069E-05	6.940E-06	3.842E-06	1.958E-06	7.835E-07	4.229E-07	2.674E-07	1.862E-07	1.384E-07	1.078E-07	8.690E-08
SE	4.473E-05	1.542E-05	8.243E-06	4.107E-06	1.630E-06	8.757E-07	5.518E-07	3.834E-07	2.844E-07	2.211E-07	1.780E-07
SSE	6.454E-05	2.147E-05	1.152E-05	5.782E-06	2.322E-06	1.258E-06	7.975E-07	5.569E-07	4.149E-07	3.237E-07	2.615E-07

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

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.219E-07	6.307E-08	4.111E-08	2.382E-08	1.627E-08	1.214E-08	9.571E-09	7.835E-09	6.594E-09	5.666E-09	4.949E-09
SSW	1.122E-07	5.933E-08	3.926E-08	2.320E-08	1.605E-08	1.209E-08	9.599E-09	7.908E-09	6.691E-09	5.776E-09	5.067E-09
SW	5.034E-08	2.606E-08	1.699E-08	9.833E-09	6.710E-09	4.999E-09	3.936E-09	3.219E-09	2.706E-09	2.323E-09	2.028E-09
WSW	2.479E-08	1.273E-08	8.248E-09	4.736E-09	3.212E-09	2.383E-09	1.870E-09	1.525E-09	1.279E-09	1.096E-09	9.548E-10
W	2.589E-08	1.315E-08	8.452E-09	4.799E-09	3.229E-09	2.380E-09	1.859E-09	1.510E-09	1.262E-09	1.078E-09	9.367E-10
WNW	3.679E-08	1.891E-08	1.227E-08	7.066E-09	4.809E-09	3.578E-09	2.815E-09	2.302E-09	1.935E-09	1.661E-09	1.450E-09
NW	1.045E-07	5.383E-08	3.498E-08	2.018E-08	1.375E-08	1.023E-08	8.055E-09	6.585E-09	5.535E-09	4.752E-09	4.148E-09
NNW	1.566E-07	8.345E-08	5.548E-08	3.298E-08	2.289E-08	1.728E-08	1.375E-08	1.134E-08	9.608E-09	8.302E-09	7.288E-09
N	2.839E-07	1.515E-07	1.008E-07	6.001E-08	4.168E-08	3.147E-08	2.505E-08	2.066E-08	1.750E-08	1.513E-08	1.328E-08
NNE	1.728E-07	9.164E-08	6.071E-08	3.591E-08	2.484E-08	1.870E-08	1.485E-08	1.223E-08	1.034E-08	8.920E-09	7.820E-09
NE	9.468E-08	5.019E-08	3.324E-08	1.966E-08	1.361E-08	1.025E-08	8.138E-09	6.703E-09	5.670E-09	4.894E-09	4.292E-09
ENE	2.841E-08	1.480E-08	9.692E-09	5.650E-09	3.878E-09	2.902E-09	2.293E-09	1.881E-09	1.586E-09	1.364E-09	1.193E-09
E	4.494E-08	2.306E-08	1.493E-08	8.555E-09	5.788E-09	4.283E-09	3.354E-09	2.729E-09	2.285E-09	1.954E-09	1.700E-09
ESE	7.197E-08	3.708E-08	2.407E-08	1.383E-08	9.365E-09	6.935E-09	5.432E-09	4.422E-09	3.702E-09	3.166E-09	2.754E-09
SE	1.473E-07	7.567E-08	4.904E-08	2.815E-08	1.908E-08	1.414E-08	1.109E-08	9.034E-09	7.571E-09	6.482E-09	5.643E-09
SSE	2.169E-07	1.126E-07	7.348E-08	4.260E-08	2.908E-08	2.168E-08	1.707E-08	1.396E-08	1.174E-08	1.008E-08	8.793E-09

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

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	6.600E-06	1.505E-06	4.679E-07	2.375E-07	1.482E-07	6.638E-08	2.431E-08	1.222E-08	7.858E-09	5.675E-09
SSW	5.490E-06	1.268E-06	4.113E-07	2.137E-07	1.355E-07	6.215E-08	2.359E-08	1.215E-08	7.927E-09	5.784E-09
SW	2.663E-06	6.157E-07	1.924E-07	9.792E-08	6.118E-08	2.742E-08	1.003E-08	5.030E-09	3.229E-09	2.327E-09
WSW	1.373E-06	3.122E-07	9.627E-08	4.861E-08	3.020E-08	1.342E-08	4.839E-09	2.399E-09	1.530E-09	1.098E-09
W	1.498E-06	3.369E-07	1.024E-07	5.126E-08	3.164E-08	1.389E-08	4.913E-09	2.398E-09	1.515E-09	1.080E-09
WNW	2.130E-06	4.724E-07	1.441E-07	7.241E-08	4.486E-08	1.993E-08	7.219E-09	3.601E-09	2.309E-09	1.664E-09
NW	5.756E-06	1.301E-06	4.031E-07	2.042E-07	1.271E-07	5.670E-08	2.061E-08	1.030E-08	6.605E-09	4.760E-09
NNW	7.301E-06	1.715E-06	5.650E-07	2.959E-07	1.886E-07	8.728E-08	3.350E-08	1.736E-08	1.137E-08	8.314E-09
N	1.296E-05	3.078E-06	1.020E-06	5.354E-07	3.418E-07	1.584E-07	6.093E-08	3.162E-08	2.071E-08	1.515E-08
NNE	8.103E-06	1.929E-06	6.300E-07	3.283E-07	2.085E-07	9.593E-08	3.650E-08	1.880E-08	1.226E-08	8.932E-09
NE	4.526E-06	1.063E-06	3.461E-07	1.801E-07	1.143E-07	5.255E-08	1.999E-08	1.030E-08	6.720E-09	4.901E-09
ENE	1.467E-06	3.412E-07	1.075E-07	5.498E-08	3.447E-08	1.556E-08	5.761E-09	2.919E-09	1.886E-09	1.366E-09
E	2.387E-06	5.590E-07	1.737E-07	8.795E-08	5.472E-08	2.431E-08	8.742E-09	4.312E-09	2.738E-09	1.958E-09
ESE	3.693E-06	8.842E-07	2.764E-07	1.404E-07	8.756E-08	3.905E-08	1.412E-08	6.982E-09	4.436E-09	3.172E-09
SE	8.000E-06	1.845E-06	5.708E-07	2.886E-07	1.794E-07	7.976E-08	2.876E-08	1.424E-08	9.063E-09	6.494E-09
SSE	1.118E-05	2.618E-06	8.240E-07	4.207E-07	2.634E-07	1.184E-07	4.346E-08	2.181E-08	1.400E-08	1.009E-08

VENTS GROUND LEVEL RELEASES - JAN-MAR 1995
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.872E-05	1.285E-05	6.726E-06	3.325E-06	1.320E-06	7.084E-07	4.460E-07	3.096E-07	2.294E-07	1.781E-07	1.432E-07
SSW	3.404E-05	1.078E-05	5.538E-06	2.741E-06	1.119E-06	6.124E-07	3.908E-07	2.741E-07	2.048E-07	1.601E-07	1.295E-07
SW	1.531E-05	5.132E-06	2.723E-06	1.356E-06	5.398E-07	2.903E-07	1.830E-07	1.271E-07	9.420E-08	7.315E-08	5.881E-08
WSW	7.808E-06	2.668E-06	1.402E-06	6.920E-07	2.731E-07	1.460E-07	9.162E-08	6.341E-08	4.687E-08	3.631E-08	2.913E-08
W	8.500E-06	2.924E-06	1.528E-06	7.518E-07	2.943E-07	1.564E-07	9.769E-08	6.734E-08	4.960E-08	3.831E-08	3.066E-08
WNW	1.260E-05	4.210E-06	2.158E-06	1.053E-06	4.127E-07	2.196E-07	1.374E-07	9.489E-08	7.002E-08	5.417E-08	4.341E-08
NW	3.350E-05	1.128E-05	5.855E-06	2.880E-06	1.141E-06	6.119E-07	3.848E-07	2.668E-07	1.976E-07	1.533E-07	1.231E-07
NNW	4.551E-05	1.424E-05	7.381E-06	3.681E-06	1.520E-06	8.376E-07	5.375E-07	3.786E-07	2.839E-07	2.227E-07	1.805E-07
N	8.153E-05	2.516E-05	1.313E-05	6.591E-06	2.734E-06	1.511E-06	9.718E-07	6.857E-07	5.149E-07	4.043E-07	3.281E-07
NNE	5.007E-05	1.559E-05	8.251E-06	4.159E-06	1.708E-06	9.379E-07	6.002E-07	4.219E-07	3.159E-07	2.474E-07	2.003E-07
NE	2.799E-05	8.780E-06	4.589E-06	2.295E-06	9.394E-07	5.147E-07	3.288E-07	2.309E-07	1.726E-07	1.350E-07	1.093E-07
ENE	8.807E-06	2.832E-06	1.498E-06	7.489E-07	3.000E-07	1.621E-07	1.025E-07	7.139E-08	5.304E-08	4.128E-08	3.325E-08
E	1.333E-05	4.545E-06	2.459E-06	1.235E-06	4.911E-07	2.637E-07	1.659E-07	1.151E-07	8.521E-08	6.611E-08	5.311E-08
ESE	2.067E-05	6.923E-06	3.828E-06	1.948E-06	7.773E-07	4.184E-07	2.638E-07	1.832E-07	1.358E-07	1.054E-07	8.476E-08
SE	4.467E-05	1.538E-05	8.216E-06	4.089E-06	1.619E-06	8.675E-07	5.452E-07	3.778E-07	2.796E-07	2.168E-07	1.741E-07
SSE	6.444E-05	2.141E-05	1.147E-05	5.749E-06	2.303E-06	1.243E-06	7.857E-07	5.469E-07	4.062E-07	3.159E-07	2.543E-07

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

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.183E-07	6.027E-08	3.867E-08	2.171E-08	1.439E-08	1.042E-08	7.976E-09	6.345E-09	5.192E-09	4.341E-09	3.691E-09
SSW	1.075E-07	5.562E-08	3.600E-08	2.037E-08	1.351E-08	9.758E-09	7.444E-09	5.896E-09	4.801E-09	3.992E-09	3.377E-09
SW	4.858E-08	2.469E-08	1.580E-08	8.813E-09	5.799E-09	4.169E-09	3.170E-09	2.504E-09	2.035E-09	1.690E-09	1.428E-09
WSW	2.401E-08	1.213E-08	7.729E-09	4.293E-09	2.817E-09	2.023E-09	1.538E-09	1.215E-09	9.882E-10	8.213E-10	6.945E-10
W	2.522E-08	1.263E-08	8.004E-09	4.417E-09	2.888E-09	2.070E-09	1.572E-09	1.242E-09	1.011E-09	8.410E-10	7.121E-10
WNW	3.579E-08	1.812E-08	1.158E-08	6.469E-09	4.273E-09	3.087E-09	2.360E-09	1.876E-09	1.534E-09	1.282E-09	1.090E-09
NW	1.017E-07	5.161E-08	3.303E-08	1.849E-08	1.223E-08	8.839E-09	6.760E-09	5.374E-09	4.395E-09	3.674E-09	3.124E-09
NNW	1.502E-07	7.838E-08	5.103E-08	2.910E-08	1.940E-08	1.409E-08	1.079E-08	8.577E-09	7.007E-09	5.846E-09	4.960E-09
N	2.733E-07	1.431E-07	9.341E-08	5.353E-08	3.584E-08	2.612E-08	2.009E-08	1.603E-08	1.314E-08	1.101E-08	9.370E-09
NNE	1.665E-07	8.666E-08	5.635E-08	3.213E-08	2.145E-08	1.560E-08	1.198E-08	9.547E-09	7.822E-09	6.544E-09	5.568E-09
NE	9.077E-08	4.709E-08	3.054E-08	1.732E-08	1.151E-08	8.329E-09	6.365E-09	5.049E-09	4.118E-09	3.430E-09	2.905E-09
ENE	2.752E-08	1.410E-08	9.084E-09	5.126E-09	3.409E-09	2.475E-09	1.898E-09	1.513E-09	1.240E-09	1.038E-09	8.840E-10
E	4.383E-08	2.220E-08	1.419E-08	7.920E-09	5.222E-09	3.767E-09	2.877E-09	2.284E-09	1.867E-09	1.559E-09	1.325E-09
ESE	7.000E-08	3.556E-08	2.276E-08	1.271E-08	8.380E-09	6.043E-09	4.612E-09	3.660E-09	2.989E-09	2.495E-09	2.118E-09
SE	1.436E-07	7.279E-08	4.653E-08	2.598E-08	1.714E-08	1.237E-08	9.450E-09	7.505E-09	6.134E-09	5.123E-09	4.354E-09
SSE	2.104E-07	1.074E-07	6.899E-08	3.874E-08	2.563E-08	1.853E-08	1.416E-08	1.125E-08	9.193E-09	7.676E-09	6.520E-09

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

DIRECTION FROM SITE	.5-1	1-2	2-3	SEGMENT BOUNDARIES IN MILES 3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.576E-06	1.494E-06	4.614E-07	2.328E-07	1.443E-07	6.357E-08	2.223E-08	1.050E-08	6.372E-09	4.352E-09
SSW	5.460E-06	1.254E-06	4.032E-07	2.076E-07	1.304E-07	5.843E-08	2.079E-08	9.832E-09	5.921E-09	4.004E-09
SW	2.651E-06	6.102E-07	1.893E-07	9.558E-08	5.927E-08	2.605E-08	9.025E-09	4.204E-09	2.516E-09	1.695E-09
WSW	1.368E-06	3.097E-07	9.484E-08	4.757E-08	2.936E-08	1.281E-08	4.400E-09	2.041E-09	1.221E-09	8.238E-10
W	1.493E-06	3.347E-07	1.012E-07	5.037E-08	3.091E-08	1.337E-08	4.534E-09	2.089E-09	1.248E-09	8.436E-10
WNW	2.123E-06	4.693E-07	1.423E-07	7.108E-08	4.378E-08	1.914E-08	6.629E-09	3.113E-09	1.884E-09	1.286E-09
NW	5.738E-06	1.292E-06	3.982E-07	2.005E-07	1.241E-07	5.447E-08	1.894E-08	8.911E-09	5.397E-09	3.684E-09
NNW	7.261E-06	1.697E-06	5.540E-07	2.876E-07	1.818E-07	8.219E-08	2.967E-08	1.419E-08	8.611E-09	5.862E-09
N	1.290E-05	3.048E-06	1.001E-06	5.216E-07	3.304E-07	1.499E-07	5.453E-08	2.630E-08	1.609E-08	1.103E-08
NNE	8.063E-06	1.910E-06	6.190E-07	3.201E-07	2.017E-07	9.094E-08	3.277E-08	1.571E-08	9.585E-09	6.561E-09
NE	4.501E-06	1.052E-06	3.392E-07	1.749E-07	1.101E-07	4.944E-08	1.767E-08	8.391E-09	5.070E-09	3.439E-09
ENE	1.461E-06	3.385E-07	1.059E-07	5.380E-08	3.351E-08	1.485E-08	5.243E-09	2.493E-09	1.519E-09	1.041E-09
E	2.379E-06	5.554E-07	1.717E-07	8.647E-08	5.352E-08	2.345E-08	8.114E-09	3.799E-09	2.295E-09	1.563E-09
ESE	3.680E-06	8.778E-07	2.728E-07	1.378E-07	8.542E-08	3.752E-08	1.302E-08	6.094E-09	3.676E-09	2.502E-09
SE	7.975E-06	1.834E-06	5.642E-07	2.837E-07	1.755E-07	7.686E-08	2.662E-08	1.247E-08	7.538E-09	5.138E-09
SSE	1.114E-05	2.598E-06	8.122E-07	4.120E-07	2.563E-07	1.132E-07	3.964E-08	1.868E-08	1.130E-08	7.698E-09

VENTS GROUND LEVEL RELEASES - JAN-MAR 1995
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.668E-05	1.176E-05	6.011E-06	2.922E-06	1.127E-06	5.914E-07	3.650E-07	2.490E-07	1.816E-07	1.390E-07	1.103E-07
SSW	3.226E-05	9.872E-06	4.956E-06	2.413E-06	9.588E-07	5.130E-07	3.213E-07	2.216E-07	1.632E-07	1.259E-07	1.006E-07
SW	1.451E-05	4.697E-06	2.435E-06	1.192E-06	4.617E-07	2.428E-07	1.501E-07	1.025E-07	7.481E-08	5.730E-08	4.549E-08
WSW	7.398E-06	2.442E-06	1.253E-06	6.083E-07	2.334E-07	1.220E-07	7.504E-08	5.104E-08	3.715E-08	2.838E-08	2.247E-08
W	8.052E-06	2.674E-06	1.365E-06	6.602E-07	2.513E-07	1.304E-07	7.984E-08	5.407E-08	3.920E-08	2.985E-08	2.357E-08
WNW	1.194E-05	3.851E-06	1.928E-06	9.252E-07	3.523E-07	1.832E-07	1.123E-07	7.622E-08	5.537E-08	4.223E-08	3.340E-08
NW	3.173E-05	1.032E-05	5.230E-06	2.529E-06	9.741E-07	5.103E-07	3.146E-07	2.143E-07	1.562E-07	1.195E-07	9.473E-08
NNW	4.313E-05	1.304E-05	6.606E-06	3.240E-06	1.302E-06	7.016E-07	4.418E-07	3.061E-07	2.262E-07	1.750E-07	1.402E-07
N	7.726E-05	2.303E-05	1.175E-05	5.799E-06	2.340E-06	1.265E-06	7.978E-07	5.535E-07	4.094E-07	3.171E-07	2.542E-07
NNE	4.745E-05	1.427E-05	7.380E-06	3.658E-06	1.462E-06	7.847E-07	4.926E-07	3.404E-07	2.510E-07	1.939E-07	1.551E-07
NE	2.653E-05	8.041E-06	4.107E-06	2.020E-06	8.047E-07	4.312E-07	2.703E-07	1.867E-07	1.375E-07	1.062E-07	8.488E-08
ENE	8.344E-06	2.591E-06	1.339E-06	6.582E-07	2.564E-07	1.354E-07	8.395E-08	5.746E-08	4.204E-08	3.226E-08	2.566E-08
E	1.263E-05	4.158E-06	2.197E-06	1.085E-06	4.192E-07	2.198E-07	1.356E-07	9.237E-08	6.731E-08	5.147E-08	4.080E-08
ESE	1.958E-05	6.333E-06	3.420E-06	1.711E-06	6.639E-07	3.491E-07	2.157E-07	1.472E-07	1.074E-07	8.222E-08	6.523E-08
SE	4.231E-05	1.407E-05	7.339E-06	3.591E-06	1.382E-06	7.232E-07	4.455E-07	3.033E-07	2.208E-07	1.688E-07	1.337E-07
SSE	6.106E-05	1.959E-05	1.025E-05	5.053E-06	1.968E-06	1.038E-06	6.433E-07	4.400E-07	3.218E-07	2.468E-07	1.961E-07

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

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	9.008E-08	4.389E-08	2.713E-08	1.441E-08	9.164E-09	6.417E-09	4.776E-09	3.708E-09	2.969E-09	2.434E-09	2.033E-09
SSW	8.260E-08	4.106E-08	2.572E-08	1.388E-08	8.904E-09	6.271E-09	4.686E-09	3.648E-09	2.926E-09	2.402E-09	2.008E-09
SW	3.715E-08	1.809E-08	1.118E-08	5.923E-09	3.754E-09	2.621E-09	1.946E-09	1.507E-09	1.203E-09	9.841E-10	8.199E-10
WSW	1.831E-08	8.849E-09	5.439E-09	2.862E-09	1.805E-09	1.256E-09	9.304E-10	7.192E-10	5.737E-10	4.687E-10	3.903E-10
W	1.915E-08	9.161E-09	5.590E-09	2.913E-09	1.824E-09	1.263E-09	9.319E-10	7.182E-10	5.714E-10	4.659E-10	3.873E-10
WNW	2.721E-08	1.317E-08	8.105E-09	4.281E-09	2.711E-09	1.893E-09	1.407E-09	1.091E-09	8.723E-10	7.145E-10	5.963E-10
NW	7.726E-08	3.749E-08	2.311E-08	1.223E-08	7.752E-09	5.416E-09	4.025E-09	3.120E-09	2.496E-09	2.044E-09	1.705E-09
NNW	1.153E-07	5.778E-08	3.638E-08	1.977E-08	1.273E-08	8.991E-09	6.735E-09	5.254E-09	4.223E-09	3.472E-09	2.906E-09
N	2.093E-07	1.051E-07	6.626E-08	3.608E-08	2.327E-08	1.646E-08	1.235E-08	9.643E-09	7.759E-09	6.386E-09	5.352E-09
NNE	1.275E-07	6.357E-08	3.991E-08	2.161E-08	1.389E-08	9.797E-09	7.333E-09	5.718E-09	4.594E-09	3.776E-09	3.161E-09
NE	6.973E-08	3.474E-08	2.179E-08	1.178E-08	7.561E-09	5.328E-09	3.983E-09	3.102E-09	2.489E-09	2.044E-09	1.709E-09
ENE	2.098E-08	1.029E-08	6.390E-09	3.414E-09	2.179E-09	1.530E-09	1.141E-09	8.876E-10	7.117E-10	5.841E-10	4.883E-10
E	3.326E-08	1.608E-08	9.885E-09	5.201E-09	3.279E-09	2.281E-09	1.689E-09	1.306E-09	1.042E-09	8.512E-10	7.089E-10
ESE	5.323E-08	2.583E-08	1.591E-08	8.389E-09	5.292E-09	3.683E-09	2.727E-09	2.107E-09	1.681E-09	1.373E-09	1.143E-09
SE	1.090E-07	5.275E-08	3.245E-08	1.710E-08	1.079E-08	7.516E-09	5.569E-09	4.308E-09	3.438E-09	2.811E-09	2.342E-09
SSE	1.603E-07	7.830E-08	4.847E-08	2.576E-08	1.636E-08	1.144E-08	8.505E-09	6.595E-09	5.274E-09	4.319E-09	3.603E-09

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

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	5.915E-06	1.288E-06	3.790E-07	1.847E-07	1.113E-07	4.671E-08	1.491E-08	6.493E-09	3.732E-09	2.444E-09
SSW	4.918E-06	1.084E-06	3.325E-07	1.657E-07	1.014E-07	4.347E-08	1.430E-08	6.339E-09	3.670E-09	2.411E-09
SW	2.385E-06	5.267E-07	1.557E-07	7.604E-08	4.590E-08	1.925E-08	6.126E-09	2.653E-09	1.517E-09	9.882E-10
WSW	1.231E-06	2.672E-07	7.795E-08	3.778E-08	2.268E-08	9.436E-09	2.965E-09	1.272E-09	7.241E-10	4.708E-10
W	1.343E-06	2.884E-07	8.303E-08	3.989E-08	2.379E-08	9.794E-09	3.024E-09	1.280E-09	7.233E-10	4.681E-10
WNW	1.910E-06	4.045E-07	1.168E-07	5.632E-08	3.373E-08	1.404E-08	4.433E-09	1.917E-09	1.098E-09	7.175E-10
NW	5.160E-06	1.113E-06	3.267E-07	1.588E-07	9.559E-08	3.994E-08	1.266E-08	5.482E-09	3.141E-09	2.052E-09
NNW	6.540E-06	1.466E-06	4.568E-07	2.295E-07	1.413E-07	6.106E-08	2.033E-08	9.085E-09	5.285E-09	3.485E-09
N	1.161E-05	2.631E-06	8.246E-07	4.154E-07	2.562E-07	1.110E-07	3.709E-08	1.663E-08	9.698E-09	6.410E-09
NNE	7.258E-06	1.649E-06	5.096E-07	2.548E-07	1.564E-07	6.725E-08	2.224E-08	9.902E-09	5.751E-09	3.791E-09
NE	4.054E-06	9.088E-07	2.798E-07	1.396E-07	8.558E-08	3.676E-08	1.213E-08	5.385E-09	3.120E-09	2.052E-09
ENE	1.315E-06	2.919E-07	8.707E-08	4.272E-08	2.588E-08	1.093E-08	3.526E-09	1.548E-09	8.931E-10	5.864E-10
E	2.139E-06	4.785E-07	1.408E-07	6.844E-08	4.117E-08	1.715E-08	5.388E-09	2.311E-09	1.315E-09	8.549E-10
ESE	3.308E-06	7.568E-07	2.239E-07	1.092E-07	6.582E-08	2.751E-08	8.684E-09	3.729E-09	2.122E-09	1.379E-09
SE	7.169E-06	1.580E-06	4.626E-07	2.246E-07	1.350E-07	5.623E-08	1.771E-08	7.611E-09	4.337E-09	2.823E-09
SSE	1.002E-05	2.240E-06	6.673E-07	3.270E-07	1.979E-07	8.326E-08	2.663E-08	1.158E-08	6.637E-09	4.337E-09

VENTS GROUND LEVEL RELEASES - JAN-MAR 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	2.136E-07	7.224E-08	3.709E-08	1.763E-08	6.334E-09	3.141E-09	1.850E-09	1.211E-09	8.522E-10	6.315E-10	4.867E-10
SSW	9.745E-08	3.295E-08	1.692E-08	8.044E-09	2.889E-09	1.433E-09	8.437E-10	5.524E-10	3.887E-10	2.881E-10	2.220E-10
SW	4.790E-08	1.620E-08	8.316E-09	3.954E-09	1.420E-09	7.043E-10	4.147E-10	2.715E-10	1.911E-10	1.416E-10	1.091E-10
WSW	3.360E-08	1.136E-08	5.834E-09	2.774E-09	9.963E-10	4.941E-10	2.909E-10	1.905E-10	1.340E-10	9.934E-11	7.656E-11
W	4.981E-08	1.685E-08	8.649E-09	4.112E-09	1.477E-09	7.325E-10	4.313E-10	2.824E-10	1.987E-10	1.473E-10	1.135E-10
WNW	8.018E-08	2.711E-08	1.392E-08	6.618E-09	2.377E-09	1.179E-09	6.942E-10	4.545E-10	3.198E-10	2.370E-10	1.827E-10
NW	2.200E-07	7.439E-08	3.820E-08	1.816E-08	6.523E-09	3.235E-09	1.905E-09	1.247E-09	8.776E-10	6.504E-10	5.012E-10
NNW	1.260E-07	4.260E-08	2.188E-08	1.040E-08	3.736E-09	1.853E-09	1.091E-09	7.143E-10	5.026E-10	3.725E-10	2.870E-10
N	2.428E-07	8.211E-08	4.216E-08	2.004E-08	7.200E-09	3.571E-09	2.102E-09	1.377E-09	9.687E-10	7.179E-10	5.532E-10
NNE	1.650E-07	5.578E-08	2.864E-08	1.362E-08	4.891E-09	2.425E-09	1.428E-09	9.351E-10	6.580E-10	4.876E-10	3.758E-10
NE	7.567E-08	2.559E-08	1.314E-08	6.246E-09	2.244E-09	1.113E-09	6.552E-10	4.290E-10	3.019E-10	2.237E-10	1.724E-10
ENE	4.563E-08	1.543E-08	7.923E-09	3.767E-09	1.353E-09	6.710E-10	3.951E-10	2.587E-10	1.820E-10	1.349E-10	1.040E-10
E	7.258E-08	2.454E-08	1.260E-08	5.991E-09	2.152E-09	1.067E-09	6.284E-10	4.115E-10	2.895E-10	2.146E-10	1.654E-10
ESE	1.151E-07	3.891E-08	1.998E-08	9.497E-09	3.411E-09	1.692E-09	9.962E-10	6.523E-10	4.590E-10	3.401E-10	2.621E-10
SE	3.001E-07	1.015E-07	5.210E-08	2.477E-08	8.897E-09	4.412E-09	2.598E-09	1.701E-09	1.197E-09	8.871E-10	6.837E-10
SSE	3.680E-07	1.244E-07	6.389E-08	3.038E-08	1.091E-08	5.411E-09	3.186E-09	2.086E-09	1.468E-09	1.088E-09	8.384E-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	3.866E-10	1.718E-10	1.040E-10	5.259E-11	3.183E-11	2.134E-11	1.529E-11	1.148E-11	8.928E-12	7.132E-12	5.821E-12
SSW	1.764E-10	7.835E-11	4.746E-11	2.399E-11	1.452E-11	9.735E-12	6.975E-12	5.238E-12	4.073E-12	3.253E-12	2.655E-12
SW	8.669E-11	3.851E-11	2.333E-11	1.179E-11	7.136E-12	4.785E-12	3.429E-12	2.574E-12	2.002E-12	1.599E-12	1.305E-12
WSW	6.082E-11	2.702E-11	1.637E-11	8.272E-12	5.007E-12	3.357E-12	2.405E-12	1.806E-12	1.404E-12	1.122E-12	9.157E-13
W	9.016E-11	4.005E-11	2.426E-11	1.226E-11	7.422E-12	4.976E-12	3.566E-12	2.678E-12	2.082E-12	1.663E-12	1.357E-12
WNW	1.451E-10	6.446E-11	3.905E-11	1.974E-11	1.195E-11	8.009E-12	5.739E-12	4.310E-12	3.351E-12	2.677E-12	2.185E-12
NW	3.982E-10	1.769E-10	1.071E-10	5.416E-11	3.278E-11	2.198E-11	1.575E-11	1.182E-11	9.194E-12	7.344E-12	5.995E-12
NNW	2.280E-10	1.013E-10	6.136E-11	3.102E-11	1.877E-11	1.259E-11	9.019E-12	6.772E-12	5.265E-12	4.206E-12	3.433E-12
N	4.395E-10	1.952E-10	1.183E-10	5.978E-11	3.618E-11	2.426E-11	1.738E-11	1.305E-11	1.015E-11	8.107E-12	6.617E-12
NNE	2.985E-10	1.326E-10	8.034E-11	4.061E-11	2.458E-11	1.648E-11	1.181E-11	8.866E-12	6.894E-12	5.507E-12	4.495E-12
NE	1.370E-10	6.084E-11	3.686E-11	1.863E-11	1.127E-11	7.560E-12	5.417E-12	4.067E-12	3.163E-12	2.526E-12	2.062E-12
ENE	8.259E-11	3.669E-11	2.223E-11	1.123E-11	6.799E-12	4.559E-12	3.267E-12	2.453E-12	1.907E-12	1.523E-12	1.243E-12
E	1.314E-10	5.836E-11	3.535E-11	1.787E-11	1.081E-11	7.251E-12	5.196E-12	3.901E-12	3.033E-12	2.423E-12	1.978E-12
ESE	2.082E-10	9.251E-11	5.604E-11	2.832E-11	1.714E-11	1.149E-11	8.236E-12	6.184E-12	4.808E-12	3.841E-12	3.135E-12
SE	5.431E-10	2.413E-10	1.462E-10	7.387E-11	4.471E-11	2.998E-11	2.148E-11	1.613E-11	1.254E-11	1.002E-11	8.177E-12
SSE	6.660E-10	2.959E-10	1.792E-10	9.059E-11	5.483E-11	3.676E-11	2.634E-11	1.978E-11	1.538E-11	1.229E-11	1.003E-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	3.625E-08	7.426E-09	1.939E-09	8.707E-10	4.925E-10	1.894E-10	5.480E-11	2.172E-11	1.160E-11	7.178E-12
SSW	1.654E-08	3.387E-09	8.843E-10	3.972E-10	2.247E-10	8.640E-11	2.500E-11	9.907E-12	5.290E-12	3.275E-12
SW	8.128E-09	1.665E-09	4.346E-10	1.952E-10	1.104E-10	4.247E-11	1.229E-11	4.869E-12	2.600E-12	1.609E-12
WSW	5.703E-09	1.168E-09	3.049E-10	1.370E-10	7.748E-11	2.979E-11	8.620E-12	3.416E-12	1.824E-12	1.129E-12
W	8.454E-09	1.732E-09	4.521E-10	2.030E-10	1.149E-10	4.417E-11	1.278E-11	5.064E-12	2.704E-12	1.674E-12
WNW	1.361E-08	2.787E-09	7.276E-10	3.268E-10	1.849E-10	7.109E-11	2.057E-11	8.151E-12	4.353E-12	2.694E-12
NW	3.733E-08	7.647E-09	1.996E-09	8.966E-10	5.072E-10	1.951E-10	5.643E-11	2.237E-11	1.194E-11	7.393E-12
NNW	2.138E-08	4.380E-09	1.143E-09	5.135E-10	2.905E-10	1.117E-10	3.232E-11	1.281E-11	6.840E-12	4.234E-12
N	4.121E-08	8.441E-09	2.204E-09	9.897E-10	5.599E-10	2.153E-10	6.229E-11	2.469E-11	1.318E-11	8.160E-12
NNE	2.799E-08	5.734E-09	1.497E-09	6.723E-10	3.803E-10	1.463E-10	4.231E-11	1.677E-11	8.955E-12	5.543E-12
NE	1.284E-08	2.630E-09	6.867E-10	3.084E-10	1.745E-10	6.710E-11	1.941E-11	7.693E-12	4.108E-12	2.543E-12
ENE	7.744E-09	1.586E-09	4.141E-10	1.860E-10	1.052E-10	4.046E-11	1.171E-11	4.639E-12	2.477E-12	1.533E-12
E	1.232E-08	2.523E-09	6.587E-10	2.958E-10	1.674E-10	6.436E-11	1.862E-11	7.379E-12	3.940E-12	2.439E-12
ESE	1.953E-08	4.000E-09	1.044E-09	4.689E-10	2.653E-10	1.020E-10	2.951E-11	1.170E-11	6.246E-12	3.866E-12
SE	5.093E-08	1.043E-08	2.723E-09	1.223E-09	6.919E-10	2.661E-10	7.697E-11	3.051E-11	1.629E-11	1.008E-11
SSE	6.245E-08	1.279E-08	3.340E-09	1.500E-09	8.485E-10	3.263E-10	9.439E-11	3.741E-11	1.998E-11	1.237E-11

VENTS GROUND LEVEL RELEASES - JAN-MAR 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	5.785E-06	5.760E-06	5.131E-06	3.154E-08
A	SITE BOUNDARY	SSW	0.82	1327.	4.417E-06	4.389E-06	3.907E-06	1.328E-08
A	SITE BOUNDARY	SW	0.98	1569.	1.447E-06	1.438E-06	1.266E-06	4.219E-09
A	SITE BOUNDARY	WSW	0.93	1489.	8.389E-07	8.343E-07	7.369E-07	3.389E-09
A	SITE BOUNDARY	W	0.91	1468.	9.438E-07	9.398E-07	8.301E-07	5.213E-09
A	SITE BOUNDARY	WNW	0.94	1509.	1.237E-06	1.232E-06	1.086E-06	7.812E-09
A	SITE BOUNDARY	NW	0.81	1307.	4.834E-06	4.816E-06	4.283E-06	3.119E-08
A	SITE BOUNDARY	NNW	0.69	1106.	8.515E-06	8.470E-06	7.614E-06	2.533E-08
A	SITE BOUNDARY	N	0.67	1086.	1.554E-05	1.547E-05	1.391E-05	5.035E-08
A	SITE BOUNDARY	NNE	0.60	965.	1.172E-05	1.167E-05	1.057E-05	4.144E-08
A	SITE BOUNDARY	NE	0.62	1005.	6.140E-06	6.110E-06	5.518E-06	1.787E-08
A	SITE BOUNDARY	ENE	0.59	945.	2.198E-06	2.191E-06	1.985E-06	1.187E-08
A	SITE BOUNDARY	E	0.53	845.	4.220E-06	4.210E-06	3.840E-06	2.266E-08
A	SITE BOUNDARY	ESE	0.54	865.	6.192E-06	6.175E-06	5.625E-06	3.458E-08
A	SITE BOUNDARY	SE	0.65	1046.	1.029E-05	1.026E-05	9.230E-06	6.626E-08
A	SITE BOUNDARY	SSE	0.81	1307.	9.533E-06	9.491E-06	8.445E-06	5.218E-08
A	NEAR. RESIDENCE	SW	1.30	2092.	7.486E-07	7.422E-07	6.415E-07	2.028E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	3.796E-07	3.767E-07	3.254E-07	1.423E-09
A	NEAR. RESIDENCE	W	1.00	1609.	7.552E-07	7.518E-07	6.602E-07	4.112E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	3.603E-07	3.575E-07	3.037E-07	2.028E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	3.739E-06	3.723E-06	3.291E-06	2.386E-08
A	NEAR. RESIDENCE	NNW	1.90	3058.	9.440E-07	9.297E-07	7.820E-07	2.096E-09
A	NEAR. RESIDENCE	N	3.00	4828.	7.013E-07	6.857E-07	5.535E-07	1.377E-09
A	NEAR. RESIDENCE	NNE	2.70	4345.	5.269E-07	5.166E-07	4.210E-07	1.193E-09
A	NEAR. RESIDENCE	ENE	1.70	2736.	2.311E-07	2.288E-07	1.937E-07	9.949E-10
A	NEAR. RESIDENCE	E	1.80	2897.	3.329E-07	3.301E-07	2.777E-07	1.377E-09
A	NEAR. RESIDENCE	ESE	2.40	3863.	2.903E-07	2.866E-07	2.353E-07	1.096E-09
A	NEAREST COW	NNW	3.50	5633.	2.922E-07	2.839E-07	2.261E-07	5.025E-10
A	NEAREST GARDEN	SW	1.30	2092.	7.486E-07	7.422E-07	6.415E-07	2.028E-09
A	NEAREST GARDEN	WSW	1.80	2897.	1.851E-07	1.831E-07	1.543E-07	6.374E-10
A	NEAREST GARDEN	WNW	1.60	2575.	3.603E-07	3.575E-07	3.037E-07	2.028E-09
A	NEAREST GARDEN	NW	2.80	4506.	3.105E-07	3.061E-07	2.475E-07	1.463E-09
A	NEAREST GARDEN	NNW	1.90	3058.	9.440E-07	9.297E-07	7.820E-07	2.096E-09
A	NEAREST GARDEN	N	3.00	4828.	7.013E-07	6.857E-07	5.535E-07	1.377E-09
A	NEAREST GARDEN	ENE	1.70	2736.	2.311E-07	2.288E-07	1.937E-07	9.949E-10
A	NEAREST GARDEN	E	1.80	2897.	3.329E-07	3.301E-07	2.777E-07	1.377E-09
A	NEAREST GARDEN	ESE	2.40	3863.	2.903E-07	2.866E-07	2.353E-07	1.096E-09

Atmospheric Diffusion Estimates

Ground Level Releases

April-June 1995

VENTS GROUND LEVEL RELEASES - APR-JUN 1995
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.424E-05	1.157E-05	6.080E-06	3.001E-06	1.178E-06	6.286E-07	3.942E-07	2.729E-07	2.019E-07	1.566E-07	1.258E-07
SSW	2.337E-05	7.635E-06	3.931E-06	1.933E-06	7.698E-07	4.149E-07	2.622E-07	1.826E-07	1.358E-07	1.059E-07	8.540E-08
SW	1.487E-05	5.050E-06	2.651E-06	1.304E-06	5.053E-07	2.674E-07	1.666E-07	1.148E-07	8.463E-08	6.544E-08	5.244E-08
WSW	8.650E-06	2.764E-06	1.410E-06	6.882E-07	2.690E-07	1.432E-07	8.971E-08	6.209E-08	4.594E-08	3.564E-08	2.865E-08
W	6.937E-06	2.421E-06	1.282E-06	6.312E-07	2.417E-07	1.266E-07	7.826E-08	5.352E-08	3.918E-08	3.012E-08	2.400E-08
WNW	1.041E-05	3.444E-06	1.763E-06	8.578E-07	3.320E-07	1.755E-07	1.093E-07	7.529E-08	5.547E-08	4.289E-08	3.436E-08
NW	2.062E-05	6.605E-06	3.427E-06	1.695E-06	6.815E-07	3.699E-07	2.351E-07	1.646E-07	1.229E-07	9.613E-08	7.780E-08
NNW	5.132E-05	1.636E-05	8.584E-06	4.291E-06	1.758E-06	9.657E-07	6.190E-07	4.361E-07	3.273E-07	2.570E-07	2.088E-07
N	5.947E-05	1.912E-05	1.025E-05	5.170E-06	2.107E-06	1.152E-06	7.363E-07	5.174E-07	3.875E-07	3.038E-07	2.463E-07
NNE	4.259E-05	1.353E-05	7.312E-06	3.709E-06	1.508E-06	8.232E-07	5.252E-07	3.686E-07	2.757E-07	2.159E-07	1.750E-07
NE	1.341E-05	4.214E-06	2.221E-06	1.116E-06	4.578E-07	2.515E-07	1.611E-07	1.135E-07	8.513E-08	6.682E-08	5.426E-08
ENE	1.077E-05	3.640E-06	1.946E-06	9.738E-07	3.929E-07	2.134E-07	1.357E-07	9.491E-08	7.082E-08	5.534E-08	4.475E-08
E	6.405E-06	2.092E-06	1.104E-06	5.505E-07	2.209E-07	1.196E-07	7.583E-08	5.294E-08	3.944E-08	3.078E-08	2.486E-08
ESE	1.556E-05	5.339E-06	2.922E-06	1.474E-06	5.802E-07	3.096E-07	1.940E-07	1.342E-07	9.912E-08	7.678E-08	6.162E-08
SE	3.418E-05	1.090E-05	5.747E-06	2.879E-06	1.169E-06	6.380E-07	4.068E-07	2.854E-07	2.134E-07	1.671E-07	1.353E-07
SSE	6.969E-05	2.155E-05	1.110E-05	5.526E-06	2.286E-06	1.264E-06	8.141E-07	5.758E-07	4.335E-07	3.414E-07	2.780E-07

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

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.040E-07	5.326E-08	3.446E-08	1.977E-08	1.343E-08	9.976E-09	7.835E-09	6.395E-09	5.368E-09	4.602E-09	4.012E-09
SSW	7.083E-08	3.678E-08	2.404E-08	1.398E-08	9.589E-09	7.175E-09	5.670E-09	4.652E-09	3.922E-09	3.376E-09	2.954E-09
SW	4.328E-08	2.212E-08	1.429E-08	8.183E-09	5.552E-09	4.120E-09	3.233E-09	2.638E-09	2.213E-09	1.896E-09	1.653E-09
WSW	2.369E-08	1.220E-08	7.936E-09	4.597E-09	3.153E-09	2.360E-09	1.866E-09	1.532E-09	1.293E-09	1.113E-09	9.748E-10
W	1.969E-08	9.813E-09	6.224E-09	3.471E-09	2.313E-09	1.692E-09	1.313E-09	1.060E-09	8.818E-10	7.500E-10	6.492E-10
WNW	2.833E-08	1.441E-08	9.290E-09	5.315E-09	3.614E-09	2.687E-09	2.114E-09	1.728E-09	1.452E-09	1.247E-09	1.088E-09
NW	6.471E-08	3.395E-08	2.235E-08	1.313E-08	9.068E-09	6.819E-09	5.410E-09	4.453E-09	3.764E-09	3.248E-09	2.847E-09
NNW	1.741E-07	9.213E-08	6.096E-08	3.602E-08	2.491E-08	1.875E-08	1.489E-08	1.226E-08	1.037E-08	8.945E-09	7.843E-09
N	2.051E-07	1.080E-07	7.119E-08	4.182E-08	2.881E-08	2.161E-08	1.711E-08	1.406E-08	1.186E-08	1.022E-08	8.944E-09
NNE	1.456E-07	7.642E-08	5.027E-08	2.946E-08	2.026E-08	1.518E-08	1.201E-08	9.859E-09	8.314E-09	7.156E-09	6.260E-09
NE	4.523E-08	2.389E-08	1.578E-08	9.307E-09	6.429E-09	4.835E-09	3.836E-09	3.157E-09	2.668E-09	2.301E-09	2.017E-09
ENE	3.717E-08	1.935E-08	1.266E-08	7.359E-09	5.030E-09	3.753E-09	2.957E-09	2.420E-09	2.036E-09	1.749E-09	1.527E-09
E	2.063E-08	1.073E-08	7.011E-09	4.073E-09	2.785E-09	2.079E-09	1.639E-09	1.342E-09	1.130E-09	9.709E-10	8.482E-10
ESE	5.082E-08	2.577E-08	1.655E-08	9.367E-09	6.290E-09	4.627E-09	3.605E-09	2.921E-09	2.436E-09	2.077E-09	1.801E-09
SE	1.126E-07	5.905E-08	3.883E-08	2.276E-08	1.566E-08	1.174E-08	9.294E-09	7.634E-09	6.442E-09	5.549E-09	4.857E-09
SSE	2.323E-07	1.240E-07	8.250E-08	4.915E-08	3.420E-08	2.586E-08	2.061E-08	1.702E-08	1.444E-08	1.249E-08	1.097E-08

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

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	5.932E-06	1.339E-06	4.082E-07	2.049E-07	1.269E-07	5.618E-08	2.022E-08	1.004E-08	6.415E-09	4.610E-09
SSW	3.866E-06	8.705E-07	2.711E-07	1.378E-07	8.607E-08	3.868E-08	1.426E-08	7.217E-09	4.665E-09	3.381E-09
SW	2.585E-06	5.769E-07	1.728E-07	8.595E-08	5.290E-08	2.334E-08	8.371E-09	4.147E-09	2.646E-09	1.900E-09
WSW	1.390E-06	3.062E-07	9.293E-08	4.663E-08	2.889E-08	1.286E-08	4.697E-09	2.374E-09	1.536E-09	1.115E-09
W	1.246E-06	2.771E-07	8.126E-08	3.983E-08	2.422E-08	1.041E-08	3.568E-09	1.706E-09	1.064E-09	7.517E-10
WNW	1.734E-06	3.793E-07	1.133E-07	5.634E-08	3.465E-08	1.523E-08	5.442E-09	2.705E-09	1.733E-09	1.249E-09
NW	3.363E-06	7.682E-07	2.428E-07	1.246E-07	7.838E-08	3.563E-08	1.338E-08	6.855E-09	4.464E-09	3.252E-09
NNW	8.405E-06	1.969E-06	6.383E-07	3.316E-07	2.102E-07	9.650E-08	3.662E-08	1.885E-08	1.229E-08	8.958E-09
N	9.963E-06	2.363E-06	7.597E-07	3.927E-07	2.481E-07	1.132E-07	4.256E-08	2.173E-08	1.409E-08	1.023E-08
NNE	7.092E-06	1.693E-06	5.420E-07	2.795E-07	1.762E-07	8.017E-08	3.000E-08	1.527E-08	9.885E-09	7.167E-09
NE	2.173E-06	5.125E-07	1.661E-07	8.625E-08	5.464E-08	2.503E-08	9.467E-09	4.861E-09	3.165E-09	2.305E-09
ENE	1.890E-06	4.422E-07	1.401E-07	7.180E-08	4.508E-08	2.034E-08	7.502E-09	3.775E-09	2.427E-09	1.752E-09
E	1.077E-06	2.491E-07	7.835E-08	4.000E-08	2.505E-08	1.128E-08	4.154E-09	2.091E-09	1.346E-09	9.725E-10
ESE	2.815E-06	6.585E-07	2.009E-07	1.006E-07	6.211E-08	2.724E-08	9.595E-09	4.661E-09	2.932E-09	2.081E-09
SE	5.618E-06	1.313E-06	4.199E-07	2.163E-07	1.363E-07	6.196E-08	2.317E-08	1.181E-08	7.654E-09	5.557E-09
SSE	1.095E-05	2.552E-06	8.387E-07	4.391E-07	2.799E-07	1.296E-07	4.991E-08	2.598E-08	1.706E-08	1.250E-08

VENTS GROUND LEVEL RELEASES - APR-JUN 1995
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.420E-05	1.155E-05	6.057E-06	2.986E-06	1.169E-06	6.222E-07	3.891E-07	2.686E-07	1.982E-07	1.533E-07	1.228E-07
SSW	2.333E-05	7.614E-06	3.915E-06	1.922E-06	7.634E-07	4.102E-07	2.584E-07	1.795E-07	1.331E-07	1.034E-07	8.313E-08
SW	1.486E-05	5.037E-06	2.641E-06	1.297E-06	5.013E-07	2.645E-07	1.644E-07	1.130E-07	8.302E-08	6.402E-08	5.115E-08
WSW	8.639E-06	2.758E-06	1.405E-06	6.849E-07	2.670E-07	1.417E-07	8.855E-08	6.111E-08	4.509E-08	3.489E-08	2.796E-08
W	6.931E-06	2.417E-06	1.279E-06	6.288E-07	2.404E-07	1.257E-07	7.753E-08	5.292E-08	3.867E-08	2.967E-08	2.360E-08
WNW	1.041E-05	3.439E-06	1.759E-06	8.553E-07	3.305E-07	1.744E-07	1.085E-07	7.457E-08	5.485E-08	4.233E-08	3.385E-08
NW	2.059E-05	6.590E-06	3.415E-06	1.687E-06	6.766E-07	3.663E-07	2.322E-07	1.621E-07	1.207E-07	9.417E-08	7.601E-08
NNW	5.124E-05	1.631E-05	8.504E-06	4.264E-06	1.742E-06	9.535E-07	6.091E-07	4.277E-07	3.199E-07	2.504E-07	2.027E-07
N	5.937E-05	1.906E-05	1.020E-05	5.135E-06	2.085E-06	1.137E-06	7.238E-07	5.068E-07	3.783E-07	2.955E-07	2.388E-07
NNE	4.252E-05	1.348E-05	7.274E-06	3.683E-06	1.492E-06	8.117E-07	5.159E-07	3.608E-07	2.689E-07	2.098E-07	1.694E-07
NE	1.339E-05	4.200E-06	2.211E-06	1.109E-06	4.532E-07	2.481E-07	1.584E-07	111E-07	8.308E-08	6.498E-08	5.258E-08
ENE	1.075E-05	3.629E-06	1.937E-06	9.680E-07	3.893E-07	2.108E-07	1.336E-07	316E-08	6.929E-08	5.397E-08	4.350E-08
E	6.397E-06	2.087E-06	1.100E-06	5.479E-07	2.193E-07	1.184E-07	7.485E-08	212E-08	3.872E-08	3.013E-08	2.427E-08
ESE	1.555E-05	5.328E-06	2.912E-06	1.467E-06	5.763E-07	3.068E-07	1.918E-07	1.323E-07	9.752E-08	7.536E-08	6.033E-08
SE	3.412E-05	1.087E-05	5.721E-06	2.862E-06	1.158E-06	6.299E-07	4.003E-07	2.799E-07	2.086E-07	1.628E-07	1.314E-07
SSE	6.957E-05	2.148E-05	1.104E-05	5.489E-06	2.263E-06	1.247E-06	8.001E-07	5.638E-07	4.230E-07	3.319E-07	2.693E-07

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

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.012E-07	5.113E-08	3.263E-08	1.821E-08	1.204E-08	8.704E-09	6.659E-09	5.296E-09	4.333E-09	3.623E-09	3.082E-09
SSW	6.873E-08	3.513E-08	2.260E-08	1.274E-08	8.467E-09	6.144E-09	4.712E-09	3.753E-09	3.074E-09	2.571E-09	2.187E-09
SW	4.210E-08	2.121E-08	1.351E-08	7.525E-09	4.968E-09	3.588E-09	2.743E-09	2.180E-09	1.783E-09	1.490E-09	1.267E-09
WSW	2.306E-08	1.171E-08	7.511E-09	4.233E-09	2.826E-09	2.061E-09	1.588E-09	1.271E-09	1.047E-09	8.800E-10	7.525E-10
W	1.933E-08	9.542E-09	5.997E-09	3.285E-09	2.150E-09	1.545E-09	1.178E-09	9.355E-10	7.651E-10	6.400E-10	5.450E-10
WNW	2.786E-08	1.405E-08	8.972E-09	5.040E-09	3.364E-09	2.457E-09	1.898E-09	1.524E-09	1.259E-09	1.062E-09	9.117E-10
NW	6.304E-08	3.263E-08	2.119E-08	1.212E-08	8.151E-09	5.973E-09	4.621E-09	3.710E-09	3.061E-09	2.578E-09	2.208E-09
NNW	1.685E-07	8.768E-08	5.707E-08	3.263E-08	2.186E-08	1.595E-08	1.228E-08	9.811E-09	8.056E-09	6.754E-09	5.756E-09
N	1.981E-07	1.025E-07	6.642E-08	3.772E-08	2.514E-08	1.826E-08	1.401E-08	1.116E-08	9.139E-09	7.642E-09	6.498E-09
NNE	1.404E-07	7.240E-08	4.678E-08	2.647E-08	1.759E-08	1.275E-08	9.761E-09	7.760E-09	6.342E-09	5.295E-09	4.495E-09
NE	4.367E-08	2.265E-08	1.470E-08	8.371E-09	5.587E-09	4.063E-09	3.119E-09	2.485E-09	2.035E-09	1.702E-09	1.447E-09
ENE	3.602E-08	1.845E-08	1.188E-08	6.689E-09	4.431E-09	3.206E-09	2.451E-09	1.947E-09	1.591E-09	1.328E-09	1.127E-09
E	2.009E-08	1.030E-08	6.635E-09	3.749E-09	2.494E-09	1.812E-09	1.391E-09	1.110E-09	9.110E-10	7.636E-10	6.510E-10
ESE	4.964E-08	2.487E-08	1.577E-08	8.714E-09	5.713E-09	4.105E-09	3.126E-09	2.477E-09	2.020E-09	1.685E-09	1.431E-09
SE	1.090E-07	5.618E-08	3.633E-08	2.059E-08	1.371E-08	9.962E-09	7.643E-09	6.089E-09	4.986E-09	4.171E-09	3.547E-09
SSE	2.242E-07	1.175E-07	7.682E-08	4.418E-08	2.970E-08	2.172E-08	1.675E-08	1.340E-08	1.101E-08	9.233E-09	7.870E-09

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

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	5.912E-06	1.330E-06	4.031E-07	2.012E-07	1.239E-07	5.404E-08	1.867E-08	8.774E-09	5.319E-09	3.633E-09
SSW	3.852E-06	8.640E-07	2.673E-07	1.350E-07	8.380E-08	3.703E-08	1.303E-08	6.191E-09	3.768E-09	2.578E-09
SW	2.576E-06	5.729E-07	1.705E-07	8.434E-08	5.161E-08	2.243E-08	7.719E-09	3.618E-09	2.190E-09	1.494E-09
WSW	1.385E-06	3.042E-07	9.176E-08	4.578E-08	2.820E-08	1.237E-08	4.336E-09	2.076E-09	1.276E-09	8.821E-10
W	1.243E-06	2.757E-07	8.053E-08	3.932E-08	2.382E-08	1.014E-08	3.383E-09	1.560E-09	9.400E-10	6.419E-10
WNW	1.731E-06	3.777E-07	1.125E-07	5.571E-08	3.414E-08	1.486E-08	5.169E-09	2.475E-09	1.530E-09	1.065E-09
NW	3.353E-06	7.632E-07	2.399E-07	1.224E-07	7.659E-08	3.431E-08	1.237E-08	6.013E-09	3.723E-09	2.584E-09
NNW	8.369E-06	1.952E-06	6.284E-07	3.242E-07	2.042E-07	9.203E-08	3.327E-08	1.606E-08	9.848E-09	6.770E-09
N	9.916E-06	2.341E-06	7.471E-07	3.834E-07	2.405E-07	1.077E-07	3.851E-08	1.840E-08	1.121E-08	7.662E-09
NNE	7.058E-06	1.677E-06	5.327E-07	2.726E-07	1.706E-07	7.613E-08	2.704E-08	1.285E-08	7.792E-09	5.309E-09
NE	2.163E-06	5.078E-07	1.634E-07	8.420E-08	5.295E-08	2.379E-08	8.541E-09	4.091E-09	2.495E-09	1.706E-09
ENE	1.882E-06	4.386E-07	1.380E-07	7.027E-08	4.383E-08	1.943E-08	6.839E-09	3.231E-09	1.955E-09	1.331E-09
E	1.074E-06	2.475E-07	7.737E-08	3.928E-08	2.446E-08	1.084E-08	3.833E-09	1.826E-09	1.115E-09	7.656E-10
ESE	2.807E-06	6.545E-07	1.987E-07	9.902E-08	6.082E-08	2.633E-08	8.948E-09	4.142E-09	2.488E-09	1.690E-09
SE	5.594E-06	1.302E-06	4.134E-07	2.115E-07	1.324E-07	5.908E-08	2.103E-08	1.003E-08	6.113E-09	4.181E-09
SSE	1.089E-05	2.528E-06	8.246E-07	4.285E-07	2.711E-07	1.231E-07	4.500E-08	2.186E-08	1.345E-08	9.255E-09

VENTS GROUND LEVEL RELEASES - APR-JUN 1995
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.240E-05	1.056E-05	5.412E-06	2.623E-06	9.985E-07	5.190E-07	3.181E-07	2.158E-07	1.567E-07	1.195E-07	9.449E-08
SSW	2.211E-05	6.967E-06	3.499E-06	1.689E-06	6.523E-07	3.424E-07	2.115E-07	1.444E-07	1.054E-07	8.071E-08	6.408E-08
SW	1.407E-05	4.608E-06	2.360E-06	1.139E-06	4.282E-07	2.207E-07	1.345E-07	9.079E-08	6.568E-08	4.992E-08	3.937E-08
WSW	8.183E-06	2.522E-06	1.255E-06	6.016E-07	2.279E-07	1.182E-07	7.240E-08	4.910E-08	3.566E-08	2.720E-08	2.151E-08
W	6.564E-06	2.210E-06	1.142E-06	5.519E-07	2.059E-07	1.046E-07	6.322E-08	4.238E-08	3.046E-08	2.302E-08	1.806E-08
WNW	9.853E-06	3.143E-06	1.570E-06	7.503E-07	2.816E-07	1.451E-07	8.835E-08	5.964E-08	4.315E-08	3.280E-08	2.587E-08
NW	1.950E-05	6.028E-06	3.051E-06	1.482E-06	5.776E-07	3.054E-07	1.898E-07	1.302E-07	9.542E-08	7.336E-08	5.843E-08
NNW	4.855E-05	1.493E-05	7.639E-06	3.749E-06	1.489E-06	7.968E-07	4.991E-07	3.445E-07	2.537E-07	1.958E-07	1.565E-07
N	5.626E-05	1.744E-05	9.120E-06	4.517E-06	1.784E-06	9.505E-07	5.935E-07	4.086E-07	3.003E-07	2.314E-07	1.846E-07
NNE	4.029E-05	1.234E-05	6.506E-06	3.240E-06	1.277E-06	6.789E-07	4.233E-07	2.910E-07	2.136E-07	1.644E-07	1.311E-07
NE	1.268E-05	3.845E-06	1.977E-06	9.754E-07	3.877E-07	2.074E-07	1.299E-07	8.959E-08	6.597E-08	5.089E-08	4.066E-08
ENE	1.019E-05	3.321E-06	1.732E-06	8.510E-07	3.328E-07	1.761E-07	1.094E-07	7.499E-08	5.492E-08	4.218E-08	3.356E-08
E	6.060E-06	1.910E-06	9.824E-07	4.812E-07	1.872E-07	9.876E-08	6.120E-08	4.187E-08	3.062E-08	2.349E-08	1.867E-08
ESE	1.473E-05	4.872E-06	2.601E-06	1.288E-06	4.918E-07	2.557E-07	1.566E-07	1.061E-07	7.698E-08	5.863E-08	4.631E-08
SE	3.233E-05	9.945E-06	5.115E-06	2.516E-06	9.904E-07	5.264E-07	3.280E-07	2.254E-07	1.654E-07	1.273E-07	1.015E-07
SSE	6.592E-05	1.966E-05	9.877E-06	4.828E-06	1.936E-06	1.043E-06	6.562E-07	4.546E-07	3.359E-07	2.600E-07	2.083E-07

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

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	7.693E-08	3.711E-08	2.279E-08	1.200E-08	7.596E-09	5.302E-09	3.937E-09	3.051E-09	2.440E-09	1.998E-09	1.668E-09
SSW	5.235E-08	2.559E-08	1.586E-08	8.462E-09	5.399E-09	3.792E-09	2.829E-09	2.201E-09	1.766E-09	1.450E-09	1.213E-09
SW	3.201E-08	1.541E-08	9.447E-09	4.966E-09	3.139E-09	2.189E-09	1.624E-09	1.258E-09	1.006E-09	8.233E-10	6.869E-10
WSW	1.753E-08	8.502E-09	5.247E-09	2.791E-09	1.783E-09	1.254E-09	9.379E-10	7.312E-10	5.879E-10	4.838E-10	4.056E-10
W	1.460E-08	6.863E-09	4.137E-09	2.125E-09	1.323E-09	9.120E-10	6.709E-10	5.161E-10	4.102E-10	3.343E-10	2.778E-10
WNW	2.192E-08	1.009E-08	6.179E-09	3.255E-09	2.067E-09	1.448E-09	1.080E-09	8.402E-10	6.746E-10	5.547E-10	4.647E-10
NW	4.787E-08	2.366E-08	1.479E-08	7.978E-09	5.132E-09	3.627E-09	2.721E-09	2.127E-09	1.713E-09	1.412E-09	1.185E-09
NNW	1.286E-07	6.403E-08	4.018E-08	2.176E-08	1.400E-08	9.888E-09	7.411E-09	5.786E-09	4.655E-09	3.832E-09	3.212E-09
N	1.514E-07	7.500E-08	4.688E-08	2.524E-08	1.616E-08	1.138E-08	8.502E-09	6.621E-09	5.314E-09	4.365E-09	3.652E-09
NNE	1.074E-07	5.304E-08	3.308E-08	1.776E-08	1.1[illegible]E-08	7.977E-09	5.953E-09	4.630E-09	3.712E-09	3.047E-09	2.546E-09
NE	3.338E-08	1.658E-08	1.039E-08	5.611E-09	3.602E-09	2.540E-09	1.901E-09	1.482E-09	1.191E-09	9.792E-10	8.198E-10
ENE	2.746E-08	1.346E-08	8.351E-09	4.451E-09	2.830E-09	1.982E-09	1.475E-09	1.145E-09	9.161E-10	7.506E-10	6.266E-10
E	1.526E-08	7.473E-09	4.636E-09	2.472E-09	1.574E-09	1.104E-09	8.229E-10	6.397E-10	5.128E-10	4.209E-10	3.519E-10
ESE	3.763E-08	1.798E-08	1.096E-08	5.703E-09	3.570E-09	2.470E-09	1.821E-09	1.403E-09	1.115E-09	9.090E-10	7.553E-10
SE	8.315E-08	4.103E-08	2.559E-08	1.374E-08	8.794E-09	6.187E-09	4.622E-09	3.599E-09	2.888E-09	2.373E-09	1.985E-09
SSE	1.714E-07	8.606E-08	5.430E-08	2.962E-08	1.916E-08	1.359E-08	1.021E-08	7.995E-09	6.445E-09	5.315E-09	4.461E-09

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

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	5.317E-06	1.146E-06	3.308E-07	1.594E-07	9.539E-08	3.959E-08	1.244E-08	5.368E-09	3.071E-09	2.007E-09
SSW	3.465E-06	7.450E-07	2.196E-07	1.071E-07	6.466E-08	2.721E-08	8.745E-09	3.835E-09	2.215E-09	1.456E-09
SW	2.317E-06	4.940E-07	1.400E-07	6.685E-08	3.977E-08	1.645E-08	5.150E-09	2.216E-09	1.267E-09	8.268E-10
WSW	1.246E-06	2.622E-07	7.530E-08	3.627E-08	2.172E-08	9.061E-09	2.889E-09	1.269E-09	7.357E-10	4.857E-10
W	1.117E-06	2.375E-07	6.593E-08	3.103E-08	1.825E-08	7.371E-09	2.215E-09	9.250E-10	5.200E-10	3.358E-10
WNW	1.555E-06	3.251E-07	9.198E-08	4.392E-08	2.613E-08	1.078E-08	3.377E-09	1.466E-09	8.456E-10	5.569E-10
NW	3.015E-06	6.575E-07	1.968E-07	9.694E-08	5.895E-08	2.510E-08	8.226E-09	3.666E-09	2.139E-09	1.417E-09
NNW	7.531E-06	1.684E-06	5.166E-07	2.576E-07	1.578E-07	6.777E-08	2.240E-08	9.993E-09	5.820E-09	3.846E-09
N	8.924E-06	2.021E-06	6.148E-07	3.050E-07	1.862E-07	7.948E-08	2.601E-08	1.150E-08	6.660E-09	4.382E-09
NNE	6.352E-06	1.447E-06	4.385E-07	2.170E-07	1.322E-07	5.625E-08	1.831E-08	8.067E-09	4.659E-09	3.059E-09
NE	1.947E-06	4.382E-07	1.344E-07	6.697E-08	4.099E-08	1.756E-08	5.780E-09	2.568E-09	1.491E-09	9.829E-10
ENE	1.694E-06	3.783E-07	1.134E-07	5.580E-08	3.385E-08	1.430E-08	4.597E-09	2.005E-09	1.152E-09	7.537E-10
E	9.657E-07	2.132E-07	6.348E-08	3.111E-08	1.883E-08	7.943E-09	2.554E-09	1.117E-09	6.437E-10	4.226E-10
ESE	2.523E-06	5.639E-07	1.629E-07	7.832E-08	4.674E-08	1.923E-08	5.924E-09	2.504E-09	1.413E-09	9.132E-10
SE	5.033E-06	1.123E-06	3.399E-07	1.680E-07	1.023E-07	4.353E-08	1.418E-08	6.256E-09	3.620E-09	2.382E-09
SSE	9.808E-06	2.182E-06	6.786E-07	3.409E-07	2.099E-07	9.091E-08	3.046E-08	1.372E-08	8.039E-09	5.334E-09

VENTS GROUND LEVEL RELEASES - APR-JUN 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	2.050E-07	6.932E-08	3.559E-08	1.692E-08	6.078E-09	3.014E-09	1.775E-09	1.162E-09	8.178E-10	6.060E-10	4.670E-10
SSW	1.233E-07	4.170E-08	2.141E-08	1.018E-08	3.656E-09	1.813E-09	1.068E-09	6.991E-10	4.919E-10	3.645E-10	2.809E-10
SW	9.856E-08	3.333E-08	1.711E-08	8.136E-09	2.922E-09	1.449E-09	8.534E-10	5.588E-10	3.932E-10	2.914E-10	2.246E-10
WSW	7.497E-08	2.535E-08	1.302E-08	6.189E-09	2.223E-09	1.102E-09	6.491E-10	4.250E-10	2.991E-10	2.216E-10	1.708E-10
W	5.590E-08	1.890E-08	9.707E-09	4.615E-09	1.658E-09	8.220E-10	4.840E-10	3.169E-10	2.230E-10	1.653E-10	1.274E-10
WNW	1.073E-07	3.628E-08	1.863E-08	8.857E-09	3.181E-09	1.578E-09	9.290E-10	6.083E-10	4.280E-10	3.172E-10	2.445E-10
NW	1.445E-07	4.885E-08	2.508E-08	1.192E-08	4.283E-09	2.124E-09	1.251E-09	8.189E-10	5.762E-10	4.270E-10	3.291E-10
NNW	2.125E-07	7.185E-08	3.689E-08	1.754E-08	6.300E-09	3.124E-09	1.840E-09	1.205E-09	8.476E-10	6.281E-10	4.840E-10
N	2.364E-07	7.995E-08	4.105E-08	1.952E-08	7.010E-09	3.476E-09	2.047E-09	1.340E-09	9.431E-10	6.990E-10	5.386E-10
NNE	1.645E-07	5.563E-08	2.856E-08	1.358E-08	4.878E-09	2.419E-09	1.424E-09	9.327E-10	6.563E-10	4.864E-10	3.748E-10
NE	5.625E-08	1.902E-08	9.766E-09	4.643E-09	1.668E-09	8.271E-10	4.870E-10	3.189E-10	2.244E-10	1.663E-10	1.281E-10
ENE	5.055E-08	1.709E-08	8.776E-09	4.172E-09	1.499E-09	7.432E-10	4.376E-10	2.866E-10	2.016E-10	1.494E-10	1.152E-10
E	5.375E-08	1.817E-08	9.332E-09	4.436E-09	1.594E-09	7.903E-10	4.653E-10	3.047E-10	2.144E-10	1.589E-10	1.224E-10
ESE	1.165E-07	3.939E-08	2.023E-08	9.616E-09	3.454E-09	1.713E-09	1.009E-09	6.604E-10	4.647E-10	3.444E-10	2.654E-10
SE	1.528E-07	5.169E-08	2.654E-08	1.262E-08	4.532E-09	2.247E-09	1.323E-09	8.665E-10	6.097E-10	4.519E-10	3.482E-10
SSE	2.465E-07	8.336E-08	4.280E-08	2.035E-08	7.309E-09	3.625E-09	2.134E-09	1.397E-09	9.833E-10	7.287E-10	5.616E-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	3.710E-10	1.648E-10	9.984E-11	5.046E-11	3.054E-11	2.048E-11	1.467E-11	1.102E-11	8.567E-12	6.844E-12	5.586E-12
SSW	2.232E-10	9.914E-11	6.006E-11	3.036E-11	1.837E-11	1.232E-11	8.827E-12	6.628E-12	5.153E-12	4.117E-12	3.360E-12
SW	1.784E-10	7.925E-11	4.800E-11	2.426E-11	1.469E-11	9.846E-12	7.055E-12	5.298E-12	4.119E-12	3.291E-12	2.686E-12
WSW	1.357E-10	6.028E-11	3.651E-11	1.846E-11	1.117E-11	7.490E-12	5.367E-12	4.030E-12	3.133E-12	2.503E-12	2.043E-12
W	1.012E-10	4.495E-11	2.723E-11	1.376E-11	8.330E-12	5.585E-12	4.002E-12	3.005E-12	2.336E-12	1.866E-12	1.523E-12
WNW	1.942E-10	8.627E-11	5.226E-11	2.641E-11	1.599E-11	1.072E-11	7.681E-12	5.767E-12	4.484E-12	3.582E-12	2.924E-12
NW	2.614E-10	1.161E-10	7.035E-11	3.556E-11	2.152E-11	1.443E-11	1.034E-11	7.764E-12	6.037E-12	4.822E-12	3.936E-12
NNW	3.845E-10	1.708E-10	1.035E-10	5.230E-11	3.166E-11	2.123E-11	1.521E-11	1.142E-11	8.880E-12	7.093E-12	5.790E-12
N	4.279E-10	1.901E-10	1.152E-10	5.820E-11	3.523E-11	2.362E-11	1.692E-11	1.271E-11	9.881E-12	7.893E-12	6.443E-12
NNE	2.977E-10	1.323E-10	8.012E-11	4.050E-11	2.451E-11	1.643E-11	1.178E-11	8.843E-12	6.875E-12	5.492E-12	4.483E-12
NE	1.018E-10	4.523E-11	2.740E-11	1.385E-11	8.381E-12	5.619E-12	4.026E-12	3.023E-12	2.351E-12	1.878E-12	1.533E-12
ENE	9.148E-11	4.064E-11	2.462E-11	1.244E-11	7.531E-12	5.050E-12	3.618E-12	2.717E-12	2.112E-12	1.687E-12	1.377E-12
E	9.727E-11	4.321E-11	2.618E-11	1.323E-11	8.008E-12	5.369E-12	3.847E-12	2.889E-12	2.246E-12	1.794E-12	1.465E-12
ESE	2.108E-10	9.366E-11	5.673E-11	2.868E-11	1.736E-11	1.164E-11	8.339E-12	6.261E-12	4.868E-12	3.889E-12	3.174E-12
SE	2.766E-10	1.229E-10	7.444E-11	3.763E-11	2.277E-11	1.527E-11	1.094E-11	8.216E-12	6.388E-12	5.103E-12	4.165E-12
SSE	4.461E-10	1.982E-10	1.201E-10	6.068E-11	3.673E-11	2.462E-11	1.764E-11	1.325E-11	1.030E-11	8.229E-12	6.717E-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	3.479E-08	7.126E-09	1.860E-09	8.355E-10	4.727E-10	1.818E-10	5.258E-11	2.084E-11	1.113E-11	6.889E-12
SSW	2.093E-08	4.286E-09	1.119E-09	5.026E-10	2.843E-10	1.093E-10	3.163E-11	1.254E-11	6.695E-12	4.144E-12
SW	1.673E-08	3.426E-09	8.944E-10	4.017E-10	2.273E-10	8.739E-11	2.528E-11	1.002E-11	5.351E-12	3.312E-12
WSW	1.272E-08	2.606E-09	6.804E-10	3.056E-10	1.729E-10	6.648E-11	1.923E-11	7.622E-12	4.070E-12	2.519E-12
W	9.487E-09	1.943E-09	5.073E-10	2.279E-10	1.289E-10	4.957E-11	1.434E-11	5.684E-12	3.035E-12	1.879E-12
WNW	1.821E-08	3.730E-09	9.737E-10	4.373E-10	2.474E-10	9.514E-11	2.752E-11	1.091E-11	5.825E-12	3.606E-12
NW	2.451E-08	5.021E-09	1.311E-09	5.887E-10	3.331E-10	1.281E-10	3.705E-11	1.469E-11	7.842E-12	4.854E-12
NNW	3.606E-08	7.386E-09	1.928E-09	8.660E-10	4.899E-10	1.884E-10	5.450E-11	2.160E-11	1.153E-11	7.140E-12
N	4.012E-08	8.219E-09	2.146E-09	9.636E-10	5.451E-10	2.096E-10	6.065E-11	2.404E-11	1.284E-11	7.945E-12
NNE	2.792E-08	5.719E-09	1.493E-09	6.705E-10	3.793E-10	1.459E-10	4.220E-11	1.673E-11	8.931E-12	5.528E-12
NE	9.546E-09	1.955E-09	5.104E-10	2.293E-10	1.297E-10	4.987E-11	1.443E-11	5.719E-12	3.054E-12	1.890E-12
ENE	8.578E-09	1.757E-09	4.587E-10	2.060E-10	1.165E-10	4.482E-11	1.297E-11	5.139E-12	2.744E-12	1.699E-12
E	9.121E-09	1.868E-09	4.877E-10	2.191E-10	1.239E-10	4.765E-11	1.379E-11	5.464E-12	2.918E-12	1.806E-12
ESE	1.977E-08	4.049E-09	1.057E-09	4.748E-10	2.686E-10	1.033E-10	2.988E-11	1.184E-11	6.324E-12	3.914E-12
SE	2.594E-08	5.313E-09	1.387E-09	6.230E-10	3.524E-10	1.355E-10	3.921E-11	1.554E-11	8.298E-12	5.136E-12
SSE	4.183E-08	8.569E-09	2.237E-09	1.005E-09	5.683E-10	2.186E-10	6.323E-11	2.506E-11	1.338E-11	8.283E-12

VENTS GROUND LEVEL RELEASES - APR-JUN 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	5.206E-06	5.186E-06	4.617E-06	3.027E-08
A	SITE BOUNDARY	SSW	0.82	1327.	3.110E-06	3.097E-06	2.753E-06	1.680E-08
A	SITE BOUNDARY	SW	0.98	1569.	1.385E-06	1.378E-06	1.213E-06	8.682E-09
A	SITE BOUNDARY	WSW	0.93	1489.	8.314E-07	8.276E-07	7.305E-07	7.562E-09
A	SITE BOUNDARY	W	0.91	1468.	7.901E-07	7.874E-07	6.951E-07	5.851E-09
A	SITE BOUNDARY	WNW	0.94	1509.	1.004E-06	1.001E-06	8.816E-07	1.045E-08
A	SITE BOUNDARY	NW	0.81	1307.	2.821E-06	2.811E-06	2.500E-06	2.048E-08
A	SITE BOUNDARY	NNW	0.69	1106.	9.836E-06	9.794E-06	8.797E-06	4.272E-08
A	SITE BOUNDARY	N	0.67	1086.	1.202E-05	1.197E-05	1.076E-05	4.902E-08
A	SITE BOUNDARY	NNE	0.60	965.	1.021E-05	1.017E-05	9.208E-06	4.133E-08
A	SITE BOUNDARY	NE	0.62	1005.	2.946E-06	2.934E-06	2.648E-06	1.328E-08
A	SITE BOUNDARY	ENE	0.59	945.	2.841E-06	2.831E-06	2.566E-06	1.314E-08
A	SITE BOUNDARY	E	0.53	845.	1.931E-06	1.927E-06	1.757E-06	1.678E-08
A	SITE BOUNDARY	ESE	0.54	865.	4.766E-06	4.755E-06	4.330E-06	3.501E-08
A	SITE BOUNDARY	SE	0.65	1046.	7.167E-06	7.139E-06	6.430E-06	3.375E-08
A	SITE BOUNDARY	SSE	0.81	1307.	9.150E-06	9.100E-06	8.103E-06	3.495E-08
A	NEAR. RESIDENCE	SW	1.30	2092.	7.011E-07	6.964E-07	6.011E-07	4.173E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	3.721E-07	3.697E-07	3.190E-07	3.174E-09
A	NEAR. RESIDENCE	W	1.00	1609.	6.312E-07	6.288E-07	5.519E-07	4.615E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	2.871E-07	2.857E-07	2.422E-07	2.714E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	2.184E-06	2.175E-06	1.923E-06	1.567E-08
A	NEAR. RESIDENCE	NNW	1.90	3058.	1.072E-06	1.060E-06	8.892E-07	3.535E-09
A	NEAR. RESIDENCE	N	3.00	4828.	5.174E-07	5.068E-07	4.086E-07	1.340E-09
A	NEAR. RESIDENCE	NNE	2.70	4345.	4.517E-07	4.431E-07	3.610E-07	1.190E-09
A	NEAR. RESIDENCE	ENE	1.70	2736.	3.003E-07	2.972E-07	2.516E-07	1.102E-09
A	NEAR. RESIDENCE	E	1.80	2897.	1.493E-07	1.479E-07	1.245E-07	1.019E-09
A	NEAR. RESIDENCE	ESE	2.40	3863.	2.110E-07	2.087E-07	1.711E-07	1.110E-09
A	NEAREST COW	NNW	3.50	5633.	3.272E-07	3.199E-07	2.537E-07	8.474E-10
A	NEAREST GARDEN	SW	1.30	2092.	7.011E-07	6.964E-07	6.011E-07	4.173E-09
A	NEAREST GARDEN	WSW	1.80	2897.	1.798E-07	1.781E-07	1.499E-07	1.422E-09
A	NEAREST GARDEN	WNW	1.60	2575.	2.871E-07	2.857E-07	2.422E-07	2.714E-09
A	NEAREST GARDEN	NW	2.80	4506.	1.881E-07	1.855E-07	1.500E-07	9.604E-10
A	NEAREST GARDEN	NNW	1.90	3058.	1.072E-06	1.060E-06	8.892E-07	3.535E-09
A	NEAREST GARDEN	N	3.00	4828.	5.174E-07	5.068E-07	4.086E-07	1.340E-09
A	NEAREST GARDEN	ENE	1.70	2736.	3.003E-07	2.972E-07	2.516E-07	1.102E-09
A	NEAREST GARDEN	E	1.80	2897.	1.493E-07	1.479E-07	1.245E-07	1.019E-09
A	NEAREST GARDEN	ESE	2.40	3863.	2.110E-07	2.087E-07	1.711E-07	1.110E-09

Atmospheric Diffusion Estimates

Ground Level Releases

January-June 1995

VENTS GROUND LEVEL RELEASES - JAN-JUN 1995
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.590E-05	1.209E-05	6.356E-06	3.142E-06	1.239E-06	6.626E-07	4.164E-07	2.887E-07	2.139E-07	1.661E-07	1.336E-07
SSW	2.709E-05	8.774E-06	4.533E-06	2.240E-06	9.029E-07	4.904E-07	3.117E-07	2.181E-07	1.628E-07	1.272E-07	1.029E-07
SW	1.486E-05	5.046E-06	2.671E-06	1.323E-06	5.192E-07	2.770E-07	1.737E-07	1.203E-07	8.899E-08	6.903E-08	5.548E-08
WSW	8.174E-06	2.715E-06	1.410E-06	6.927E-07	2.717E-07	1.449E-07	9.085E-08	6.289E-08	4.653E-08	3.610E-08	2.901E-08
W	7.702E-06	2.680E-06	1.412E-06	6.957E-07	2.694E-07	1.422E-07	8.840E-08	6.075E-08	4.465E-08	3.444E-08	2.753E-08
WNW	1.134E-05	3.794E-06	1.950E-06	9.508E-07	3.696E-07	1.959E-07	1.222E-07	8.429E-08	6.216E-08	4.809E-08	3.855E-08
NW	2.634E-05	8.776E-06	4.574E-06	2.257E-06	8.966E-07	4.823E-07	3.043E-07	2.117E-07	1.573E-07	1.225E-07	9.872E-08
NNW	4.577E-05	1.457E-05	7.636E-06	3.818E-06	1.568E-06	8.620E-07	5.529E-07	3.897E-07	2.927E-07	2.299E-07	1.868E-07
N	6.655E-05	2.104E-05	1.116E-05	5.624E-06	2.313E-06	1.273E-06	8.166E-07	5.757E-07	4.323E-07	3.396E-07	2.760E-07
NNE	4.408E-05	1.394E-05	7.474E-06	3.782E-06	1.545E-06	8.459E-07	5.408E-07	3.802E-07	2.848E-07	2.233E-07	1.811E-07
NE	1.943E-05	6.156E-06	3.242E-06	1.626E-06	6.650E-07	3.646E-07	2.334E-07	1.642E-07	1.231E-07	9.655E-08	7.836E-08
ENE	9.488E-06	3.153E-06	1.681E-06	8.411E-07	3.379E-07	1.830E-07	1.161E-07	8.109E-08	6.043E-08	4.716E-08	3.810E-08
E	9.875E-06	3.343E-06	1.800E-06	9.032E-07	3.598E-07	1.937E-07	1.222E-07	8.501E-08	6.312E-08	4.911E-08	3.956E-08
ESE	1.804E-05	6.134E-06	3.377E-06	1.711E-06	6.792E-07	3.645E-07	2.295E-07	1.592E-07	1.180E-07	9.166E-08	7.373E-08
SE	3.874E-05	1.301E-05	6.932E-06	3.462E-06	1.383E-06	7.461E-07	4.717E-07	3.286E-07	2.443E-07	1.903E-07	1.535E-07
SSE	6.507E-05	2.098E-05	1.105E-05	5.526E-06	2.245E-06	1.226E-06	7.824E-07	5.492E-07	4.110E-07	3.219E-07	2.609E-07

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

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.105E-07	5.675E-08	3.679E-08	2.116E-08	1.439E-08	1.070E-08	8.409E-09	6.868E-09	5.768E-09	4.947E-09	4.315E-09
SSW	8.555E-08	4.473E-08	2.936E-08	1.718E-08	1.181E-08	8.854E-09	7.008E-09	5.756E-09	4.858E-09	4.185E-09	3.665E-09
SW	4.586E-08	2.354E-08	1.525E-08	8.758E-09	5.949E-09	4.418E-09	3.469E-09	2.831E-09	2.376E-09	2.036E-09	1.775E-09
WSW	2.398E-08	1.229E-08	7.964E-09	4.579E-09	3.117E-09	2.319E-09	1.824E-09	1.491E-09	1.253E-09	1.076E-09	9.388E-10
W	2.264E-08	1.137E-08	7.252E-09	4.074E-09	2.724E-09	1.998E-09	1.553E-09	1.257E-09	1.047E-09	8.923E-10	7.735E-10
WNW	3.181E-08	1.621E-08	1.046E-08	5.983E-09	4.060E-09	3.014E-09	2.367E-09	1.932E-09	1.622E-09	1.392E-09	1.214E-09
NW	8.179E-08	4.226E-08	2.752E-08	1.593E-08	1.088E-08	8.115E-09	6.396E-09	5.236E-09	4.406E-09	3.786E-09	3.308E-09
NNW	1.558E-07	8.251E-08	5.462E-08	3.228E-08	2.233E-08	1.681E-08	1.334E-08	1.099E-08	9.293E-09	8.020E-09	7.032E-09
N	2.302E-07	1.219E-07	8.063E-08	4.762E-08	3.290E-08	2.475E-08	1.964E-08	1.616E-08	1.366E-08	1.178E-08	1.032E-08
NNE	1.509E-07	7.945E-08	5.238E-08	3.079E-08	2.121E-08	1.592E-08	1.261E-08	1.036E-08	8.743E-09	7.532E-09	6.594E-09
NE	6.529E-08	3.445E-08	2.275E-08	1.340E-08	9.249E-09	6.952E-09	5.512E-09	4.534E-09	3.831E-09	3.303E-09	2.894E-09
ENE	3.163E-08	1.644E-08	1.074E-08	6.238E-09	4.266E-09	3.183E-09	2.510E-09	2.054E-09	1.729E-09	1.485E-09	1.297E-09
E	3.274E-08	1.683E-08	1.091E-08	6.265E-09	4.245E-09	3.146E-09	2.466E-09	2.009E-09	1.683E-09	1.441E-09	1.254E-09
ESE	6.095E-08	3.116E-08	2.012E-08	1.148E-08	7.741E-09	5.714E-09	4.464E-09	3.626E-09	3.030E-09	2.587E-09	2.247E-09
SE	1.272E-07	6.576E-08	4.280E-08	2.472E-08	1.684E-08	1.253E-08	9.851E-09	8.048E-09	6.760E-09	5.799E-09	5.058E-09
SSE	2.171E-07	1.140E-07	7.508E-08	4.406E-08	3.035E-08	2.277E-08	1.803E-08	1.482E-08	1.251E-08	1.078E-08	9.437E-09

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

DIRECTION FROM SITE	.5-1	1-2	2-3	SEGMENT BOUNDARIES IN MILES 3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.202E-06	1.406E-06	4.310E-07	2.171E-07	1.347E-07	5.982E-08	2.162E-08	1.077E-08	6.889E-09	4.956E-09
SSW	4.456E-06	1.017E-06	3.219E-07	1.650E-07	1.037E-07	4.697E-08	1.750E-08	8.904E-09	5.772E-09	4.192E-09
SW	2.600E-06	5.901E-07	1.799E-07	9.033E-08	5.593E-08	2.481E-08	8.952E-09	4.447E-09	2.840E-09	2.040E-09
WSW	1.381E-06	3.089E-07	9.408E-08	4.724E-08	2.925E-08	1.297E-08	4.681E-09	2.334E-09	1.496E-09	1.078E-09
W	1.375E-06	3.076E-07	9.169E-08	4.536E-08	2.776E-08	1.204E-08	4.180E-09	2.014E-09	1.262E-09	8.943E-10
WNW	1.916E-06	4.216E-07	1.267E-07	6.312E-08	3.888E-08	1.712E-08	6.123E-09	3.034E-09	1.939E-09	1.394E-09
NW	4.478E-06	1.015E-06	3.147E-07	1.596E-07	9.948E-08	4.449E-08	1.626E-08	8.165E-09	5.251E-09	3.793E-09
NNW	7.481E-06	1.754E-06	5.701E-07	2.965E-07	1.881E-07	8.640E-08	3.282E-08	1.689E-08	1.102E-08	8.031E-09
N	1.090E-05	2.586E-06	8.418E-07	4.380E-07	2.779E-07	1.276E-07	4.841E-08	2.488E-08	1.620E-08	1.180E-08
NNE	7.269E-06	1.731E-06	5.579E-07	2.886E-07	1.824E-07	8.329E-08	3.133E-08	1.601E-08	1.039E-08	7.543E-09
NE	3.171E-06	7.451E-07	2.407E-07	1.247E-07	7.891E-08	3.610E-08	1.363E-08	6.988E-09	4.545E-09	3.308E-09
ENE	1.635E-06	3.809E-07	1.199E-07	6.128E-08	3.839E-08	1.728E-08	6.362E-09	3.202E-09	2.060E-09	1.488E-09
E	1.744E-06	4.067E-07	1.264E-07	6.404E-08	3.986E-08	1.774E-08	6.400E-09	3.167E-09	2.016E-09	1.444E-09
ESE	3.249E-06	7.687E-07	2.374E-07	1.198E-07	7.431E-08	3.287E-08	1.174E-08	5.754E-09	3.638E-09	2.592E-09
SE	6.741E-06	1.562E-06	4.876E-07	2.478E-07	1.547E-07	6.922E-08	2.523E-08	1.261E-08	8.072E-09	5.809E-09
SSE	1.080E-05	2.521E-06	8.074E-07	4.165E-07	2.628E-07	1.196E-07	4.486E-08	2.290E-08	1.486E-08	1.079E-08

VENTS GROUND LEVEL RELEASES - JAN-JUN 1995
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.586E-05	1.206E-05	6.334E-06	3.128E-06	1.230E-06	6.565E-07	4.115E-07	2.847E-07	2.103E-07	1.629E-07	1.307E-07
SSW	2.705E-05	8.750E-06	4.515E-06	2.228E-06	8.954E-07	4.849E-07	3.073E-07	2.144E-07	1.595E-07	1.243E-07	1.003E-07
SW	1.484E-05	5.033E-06	2.661E-06	1.316E-06	5.151E-07	2.740E-07	1.714E-07	1.183E-07	8.728E-08	6.751E-08	5.410E-08
WSW	8.164E-06	2.708E-06	1.405E-06	6.893E-07	2.696E-07	1.434E-07	8.968E-08	6.192E-08	4.569E-08	3.535E-08	2.833E-08
W	7.695E-06	2.675E-06	1.408E-06	6.930E-07	2.679E-07	1.411E-07	8.754E-08	6.004E-08	4.404E-08	3.390E-08	2.704E-08
WNW	1.133E-05	3.787E-06	1.945E-06	9.478E-07	3.678E-07	1.945E-07	1.212E-07	8.341E-08	6.139E-08	4.741E-08	3.793E-08
NW	2.632E-05	8.759E-06	4.561E-06	2.248E-06	8.915E-07	4.785E-07	3.013E-07	2.092E-07	1.551E-07	1.205E-07	9.688E-08
NNW	4.570E-05	1.453E-05	7.604E-06	3.796E-06	1.554E-06	8.520E-07	5.449E-07	3.829E-07	2.866E-07	2.245E-07	1.819E-07
N	6.646E-05	2.098E-05	1.112E-05	5.593E-06	2.293E-06	1.258E-06	8.049E-07	5.658E-07	4.237E-07	3.319E-07	2.689E-07
NNE	4.402E-05	1.390E-05	7.442E-06	3.761E-06	1.531E-06	8.361E-07	5.330E-07	3.735E-07	2.790E-07	2.181E-07	1.764E-07
NE	1.940E-05	6.138E-06	3.227E-06	1.616E-06	6.590E-07	3.602E-07	2.298E-07	1.611E-07	1.204E-07	9.416E-08	7.617E-08
ENE	9.476E-06	3.145E-06	1.675E-06	8.370E-07	3.354E-07	1.812E-07	1.146E-07	7.983E-08	5.933E-08	4.618E-08	3.721E-08
E	9.864E-06	3.336E-06	1.794E-06	8.993E-07	3.575E-07	1.920E-07	1.209E-07	8.388E-08	6.214E-08	4.823E-08	3.876E-08
ESE	1.802E-05	6.121E-06	3.366E-06	1.704E-06	6.747E-07	3.613E-07	2.269E-07	1.571E-07	1.162E-07	9.000E-08	7.223E-08
SE	3.869E-05	1.298E-05	6.909E-06	3.447E-06	1.373E-06	7.392E-07	4.662E-07	3.240E-07	2.403E-07	1.867E-07	1.502E-07
SSE	6.498E-05	2.093E-05	1.101E-05	5.497E-06	2.227E-06	1.213E-06	7.717E-07	5.402E-07	4.030E-07	3.148E-07	2.544E-07

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

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.079E-07	5.470E-08	3.502E-08	1.964E-08	1.303E-08	9.455E-09	7.255E-09	5.785E-09	4.745E-09	3.976E-09	3.389E-09
SSW	8.307E-08	4.277E-08	2.765E-08	1.568E-08	1.046E-08	7.611E-09	5.848E-09	4.665E-09	3.825E-09	3.203E-09	2.726E-09
SW	4.460E-08	2.256E-08	1.441E-08	8.043E-09	5.312E-09	3.836E-09	2.931E-09	2.328E-09	1.901E-09	1.587E-09	1.347E-09
WSW	2.335E-08	1.181E-08	7.549E-09	4.226E-09	2.801E-09	2.030E-09	1.557E-09	1.241E-09	1.017E-09	8.517E-10	7.255E-10
W	2.219E-08	1.103E-08	6.965E-09	3.833E-09	2.510E-09	1.804E-09	1.375E-09	1.091E-09	8.909E-10	7.441E-10	6.325E-10
WNW	3.123E-08	1.576E-08	1.007E-08	5.648E-09	3.757E-09	2.735E-09	2.106E-09	1.686E-09	1.389E-09	1.168E-09	9.999E-10
NW	8.009E-08	4.092E-08	2.635E-08	1.491E-08	9.954E-09	7.260E-09	5.596E-09	4.482E-09	3.690E-09	3.103E-09	2.654E-09
NNW	1.512E-07	7.887E-08	5.143E-08	2.950E-08	1.981E-08	1.449E-08	1.118E-08	8.948E-09	7.360E-09	6.179E-09	5.273E-09
N	2.236E-07	1.166E-07	7.606E-08	4.364E-08	2.932E-08	2.145E-08	1.655E-08	1.326E-08	1.091E-08	9.170E-09	7.831E-09
NNE	1.465E-07	7.598E-08	4.936E-08	2.817E-08	1.886E-08	1.376E-08	1.059E-08	8.470E-09	6.958E-09	5.837E-09	4.978E-09
NE	6.327E-08	3.285E-08	2.135E-08	1.219E-08	8.154E-09	5.944E-09	4.573E-09	3.652E-09	2.997E-09	2.511E-09	2.138E-09
ENE	3.080E-08	1.579E-08	1.018E-08	5.754E-09	3.831E-09	2.785E-09	2.139E-09	1.707E-09	1.400E-09	1.173E-09	9.999E-10
E	3.201E-08	1.626E-08	1.042E-08	5.843E-09	3.868E-09	2.802E-09	2.147E-09	1.710E-09	1.401E-09	1.174E-09	9.996E-10
ESE	5.956E-08	3.010E-08	1.920E-08	1.070E-08	7.052E-09	5.088E-09	3.886E-09	3.088E-09	2.524E-09	2.110E-09	1.794E-09
SE	1.242E-07	6.337E-08	4.073E-08	2.293E-08	1.523E-08	1.105E-08	8.478E-09	6.759E-09	5.542E-09	4.642E-09	3.955E-09
SSE	2.111E-07	1.093E-07	7.091E-08	4.043E-08	2.707E-08	1.975E-08	1.522E-08	1.217E-08	1.000E-08	8.393E-09	7.159E-09

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

DIRECTION FROM SITE	.5-1	1-2	2-3	SEGMENT BOUNDARIES IN MILES 3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	6.182E-06	1.397E-06	4.261E-07	2.135E-07	1.318E-07	5.777E-08	2.012E-08	9.529E-09	5.809E-09	3.987E-09
SSW	4.440E-06	1.009E-06	3.175E-07	1.618E-07	1.010E-07	4.500E-08	1.602E-08	7.666E-09	4.683E-09	3.211E-09
SW	2.590E-06	5.859E-07	1.775E-07	8.862E-08	5.455E-08	2.383E-08	8.243E-09	3.868E-09	2.338E-09	1.591E-09
WSW	1.376E-06	3.068E-07	9.291E-08	4.639E-08	2.857E-08	1.248E-08	4.331E-09	2.047E-09	1.246E-09	8.539E-10
W	1.372E-06	3.060E-07	9.083E-08	4.475E-08	2.728E-08	1.170E-08	3.941E-09	1.821E-09	1.096E-09	7.463E-10
WNW	1.911E-06	4.197E-07	1.256E-07	6.235E-08	3.826E-08	1.667E-08	5.790E-09	2.756E-09	1.693E-09	1.171E-09
NW	4.466E-06	1.009E-06	3.117E-07	1.573E-07	9.765E-08	4.315E-08	1.525E-08	7.313E-09	4.499E-09	3.111E-09
NNW	7.451E-06	1.740E-06	5.620E-07	2.905E-07	1.832E-07	8.276E-08	3.007E-08	1.458E-08	8.980E-09	6.193E-09
N	1.085E-05	2.566E-06	8.301E-07	4.293E-07	2.708E-07	1.224E-07	4.448E-08	2.159E-08	1.331E-08	9.191E-09
NNE	7.241E-06	1.718E-06	5.500E-07	2.828E-07	1.777E-07	7.981E-08	2.874E-08	1.385E-08	8.501E-09	5.851E-09
NE	3.158E-06	7.389E-07	2.371E-07	1.220E-07	7.672E-08	3.450E-08	1.243E-08	5.985E-09	3.666E-09	2.517E-09
ENE	1.629E-06	3.783E-07	1.185E-07	6.018E-08	3.750E-08	1.663E-08	5.882E-09	2.806E-09	1.714E-09	1.176E-09
E	1.739E-06	4.043E-07	1.250E-07	6.305E-08	3.907E-08	1.716E-08	5.982E-09	2.824E-09	1.717E-09	1.177E-09
ESE	3.240E-06	7.641E-07	2.348E-07	1.179E-07	7.280E-08	3.180E-08	1.097E-08	5.131E-09	3.101E-09	2.116E-09
SE	6.720E-06	1.552E-06	4.821E-07	2.438E-07	1.514E-07	6.682E-08	2.346E-08	1.114E-08	6.787E-09	4.654E-09
SSE	1.076E-05	2.503E-06	7.967E-07	4.086E-07	2.563E-07	1.149E-07	4.127E-08	1.989E-08	1.221E-08	8.413E-09

VENTS GROUND LEVEL RELEASES - JAN-JUN 1995
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) — DISTANCE IN MILES

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.397E-05	1.103E-05	5.658E-06	2.747E-06	1.050E-06	5.473E-07	3.362E-07	2.284E-07	1.661E-07	1.268E-07	1.004E-07
SSW	2.562E-05	8.006E-06	4.035E-06	1.958E-06	7.650E-07	4.048E-07	2.514E-07	1.724E-07	1.263E-07	9.703E-08	7.725E-08
SW	1.406E-05	4.605E-06	2.378E-06	1.156E-06	4.400E-07	2.287E-07	1.402E-07	9.509E-08	6.906E-08	5.266E-08	4.165E-08
WSW	7.733E-06	2.477E-06	1.255E-06	6.055E-07	2.303E-07	1.196E-07	7.332E-08	4.974E-08	3.612E-08	2.755E-08	2.179E-08
W	7.288E-06	2.446E-06	1.257E-06	6.083E-07	2.284E-07	1.175E-07	7.141E-08	4.809E-08	3.470E-08	2.632E-08	2.071E-08
WNW	1.073E-05	3.463E-06	1.736E-06	8.316E-07	3.134E-07	1.619E-07	9.876E-08	6.675E-08	4.833E-08	3.677E-08	2.901E-08
NW	2.492E-05	8.010E-06	4.073E-06	1.973E-06	7.602E-07	3.985E-07	2.458E-07	1.676E-07	1.222E-07	9.357E-08	7.424E-08
NNW	4.330E-05	1.330E-05	6.796E-06	3.337E-06	1.328E-06	7.114E-07	4.460E-07	3.080E-07	2.270E-07	1.753E-07	1.402E-07
N	6.296E-05	1.920E-05	9.936E-06	4.915E-06	1.959E-06	1.050E-06	6.588E-07	4.550E-07	3.354E-07	2.590E-07	2.071E-07
NNE	4.170E-05	1.272E-05	6.652E-06	3.306E-06	1.309E-06	6.981E-07	4.363E-07	3.005E-07	2.210E-07	1.703E-07	1.359E-07
NE	1.838E-05	5.617E-06	2.885E-06	1.421E-06	5.633E-07	3.009E-07	1.882E-07	1.297E-07	9.544E-08	7.359E-08	5.877E-08
ENE	8.976E-06	2.877E-06	1.496E-06	7.352E-07	2.864E-07	1.511E-07	9.370E-08	6.412E-08	4.691E-08	3.599E-08	2.862E-08
E	9.343E-06	3.051E-06	1.603E-06	7.896E-07	3.050E-07	1.600E-07	9.870E-08	6.727E-08	4.903E-08	3.750E-08	2.974E-08
ESE	1.707E-05	5.598E-06	3.006E-06	1.496E-06	5.758E-07	3.011E-07	1.853E-07	1.260E-07	9.167E-08	7.000E-08	5.542E-08
SE	3.665E-05	1.187E-05	6.172E-06	3.027E-06	1.172E-06	6.162E-07	3.808E-07	2.600E-07	1.898E-07	1.453E-07	1.154E-07
SSE	6.156E-05	1.915E-05	9.840E-06	4.830E-06	1.903E-06	1.012E-06	6.313E-07	4.342E-07	3.189E-07	2.455E-07	1.958E-07

ANNUAL AVERAGE CHI/Q (SEC/METER CUBED) — DISTANCE IN MILES

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	8.181E-08	3.959E-08	2.437E-08	1.288E-08	8.166E-09	5.710E-09	4.247E-09	3.296E-09	2.639E-09	2.164E-09	1.808E-09
SSW	6.324E-08	3.113E-08	1.939E-08	1.040E-08	6.658E-09	4.687E-09	3.504E-09	2.731E-09	2.194E-09	1.804E-09	1.510E-09
SW	3.392E-08	1.639E-08	1.008E-08	5.314E-09	3.362E-09	2.346E-09	1.742E-09	1.349E-09	1.079E-09	8.831E-10	7.367E-10
WSW	1.774E-08	8.569E-09	5.269E-09	2.782E-09	1.765E-09	1.234E-09	9.184E-10	7.131E-10	5.712E-10	4.686E-10	3.917E-10
W	1.678E-08	7.947E-09	4.816E-09	2.489E-09	1.554E-09	1.073E-09	7.907E-10	6.089E-10	4.844E-10	3.949E-10	3.284E-10
WNW	2.359E-08	1.134E-08	6.951E-09	3.659E-09	2.318E-09	1.621E-09	1.206E-09	9.371E-10	7.512E-10	6.168E-10	5.160E-10
NW	6.060E-08	2.952E-08	1.826E-08	9.715E-09	6.191E-09	4.346E-09	3.243E-09	2.524E-09	2.026E-09	1.665E-09	1.394E-09
NNW	1.152E-07	5.742E-08	3.607E-08	1.956E-08	1.259E-08	8.904E-09	6.679E-09	5.220E-09	4.203E-09	3.463E-09	2.905E-09
N	1.702E-07	8.483E-08	5.327E-08	2.887E-08	1.858E-08	1.313E-08	9.847E-09	7.693E-09	6.193E-09	5.101E-09	4.279E-09
NNE	1.115E-07	5.530E-08	3.460E-08	1.866E-08	1.197E-08	8.439E-09	6.316E-09	4.925E-09	3.959E-09	3.257E-09	2.728E-09
NE	4.824E-08	2.396E-08	1.501E-08	8.107E-09	5.207E-09	3.674E-09	2.751E-09	2.146E-09	1.726E-09	1.420E-09	1.190E-09
ENE	2.340E-08	1.145E-08	7.105E-09	3.789E-09	2.414E-09	1.694E-09	1.263E-09	9.816E-10	7.870E-10	6.460E-10	5.402E-10
E	2.425E-08	1.175E-08	7.235E-09	3.818E-09	2.413E-09	1.683E-09	1.249E-09	9.670E-10	7.728E-10	6.327E-10	5.278E-10
ESE	4.514E-08	2.175E-08	1.334E-08	6.993E-09	4.399E-09	3.055E-09	2.259E-09	1.745E-09	1.391E-09	1.136E-09	9.454E-10
SE	9.419E-08	4.587E-08	2.835E-08	1.504E-08	9.548E-09	6.680E-09	4.969E-09	3.857E-09	3.088E-09	2.532E-09	2.115E-09
SSE	1.606E-07	7.942E-08	4.962E-08	2.673E-08	1.714E-08	1.208E-08	9.045E-09	7.055E-09	5.672E-09	4.667E-09	3.910E-09

CHI/Q (SEC/METER CUBED) FOR EACH SEGMENT — SEGMENT BOUNDARIES IN MILES

DIRECTION FROM SITE	.5-1	1-2	2-3	3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	5.559E-06	1.204E-06	3.494E-07	1.689E-07	1.013E-07	4.220E-08	1.334E-08	5.780E-09	3.318E-09	2.173E-09
SSW	3.994E-06	8.700E-07	2.607E-07	1.283E-07	7.792E-08	3.305E-08	1.074E-08	4.739E-09	2.747E-09	1.811E-09
SW	2.330E-06	5.052E-07	1.458E-07	7.025E-08	4.205E-08	1.748E-08	5.506E-09	2.375E-09	1.358E-09	8.868E-10
WSW	1.238E-06	2.645E-07	7.624E-08	3.675E-08	2.200E-08	9.140E-09	2.883E-09	1.249E-09	7.177E-10	4.705E-10
W	1.233E-06	2.635E-07	7.437E-08	3.533E-08	2.091E-08	8.518E-09	2.591E-09	1.088E-09	6.134E-10	3.968E-10
WNW	1.718E-06	3.612E-07	1.028E-07	4.919E-08	2.930E-08	1.211E-08	3.795E-09	1.641E-09	9.432E-10	6.193E-10
NW	4.015E-06	8.690E-07	2.552E-07	1.243E-07	7.491E-08	3.142E-08	1.005E-08	4.396E-09	2.540E-09	1.672E-09
NNW	6.704E-06	1.500E-06	4.616E-07	2.305E-07	1.413E-07	6.076E-08	2.013E-08	8.998E-09	5.249E-09	3.475E-09
N	9.763E-06	2.212E-06	6.817E-07	3.405E-07	2.088E-07	8.977E-08	2.972E-08	1.327E-08	7.737E-09	5.120E-09
NNE	6.512E-06	1.481E-06	4.518E-07	2.244E-07	1.371E-07	5.859E-08	1.923E-08	8.531E-09	4.954E-09	3.269E-09
NE	2.842E-06	6.373E-07	1.948E-07	9.691E-08	5.926E-08	2.538E-08	8.352E-09	3.713E-09	2.159E-09	1.425E-09
ENE	1.465E-06	3.260E-07	9.718E-08	4.767E-08	2.887E-08	1.218E-08	3.915E-09	1.713E-09	9.877E-10	6.486E-10
E	1.563E-06	3.483E-07	1.025E-07	4.985E-08	3.001E-08	1.252E-08	3.953E-09	1.704E-09	9.735E-10	6.354E-10
ESE	2.911E-06	6.582E-07	1.924E-07	9.323E-08	5.593E-08	2.321E-08	7.250E-09	3.095E-09	1.757E-09	1.141E-09
SE	6.041E-06	1.337E-06	3.952E-07	1.929E-07	1.164E-07	4.882E-08	1.556E-08	6.761E-09	3.882E-09	2.542E-09
SSE	9.682E-06	2.157E-06	6.540E-07	3.239E-07	1.975E-07	8.421E-08	2.755E-08	1.222E-08	7.097E-09	4.685E-09

VENTS GROUND LEVEL RELEASES - JAN-JUN 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	2.135E-07	7.221E-08	3.708E-08	1.763E-08	6.331E-09	3.140E-09	1.849E-09	1.211E-09	8.518E-10	6.313E-10	4.865E-10
SSW	1.120E-07	3.788E-08	1.945E-08	9.247E-09	3.321E-09	1.647E-09	9.699E-10	6.351E-10	4.469E-10	3.312E-10	2.552E-10
SW	7.424E-08	2.511E-08	1.289E-08	6.128E-09	2.201E-09	1.092E-09	6.428E-10	4.209E-10	2.962E-10	2.195E-10	1.691E-10
WSW	5.506E-08	1.862E-08	9.560E-09	4.545E-09	1.633E-09	8.096E-10	4.767E-10	3.121E-10	2.196E-10	1.628E-10	1.254E-10
W	5.390E-08	1.823E-08	9.358E-09	4.449E-09	1.598E-09	7.925E-10	4.666E-10	3.055E-10	2.150E-10	1.593E-10	1.228E-10
WNW	9.542E-08	3.227E-08	1.657E-08	7.877E-09	2.829E-09	1.403E-09	8.262E-10	5.410E-10	3.806E-10	2.821E-10	2.174E-10
NW	1.865E-07	6.305E-08	3.238E-08	1.539E-08	5.529E-09	2.742E-09	1.614E-09	1.057E-09	7.438E-10	5.513E-10	4.248E-10
NNW	1.713E-07	5.792E-08	2.974E-08	1.414E-08	5.079E-09	2.519E-09	1.483E-09	9.711E-10	6.833E-10	5.064E-10	3.902E-10
N	2.435E-07	8.233E-08	4.227E-08	2.010E-08	7.219E-09	3.580E-09	2.108E-09	1.380E-09	9.713E-10	7.198E-10	5.547E-10
NNE	1.674E-07	5.662E-08	2.907E-08	1.382E-08	4.964E-09	2.462E-09	1.450E-09	9.492E-10	6.679E-10	4.950E-10	3.814E-10
NE	6.711E-08	2.269E-08	1.165E-08	5.540E-09	1.990E-09	9.868E-10	5.811E-10	3.805E-10	2.677E-10	1.984E-10	1.529E-10
ENE	4.894E-08	1.655E-08	8.498E-09	4.040E-09	1.451E-09	7.196E-10	4.237E-10	2.775E-10	1.952E-10	1.447E-10	1.115E-10
E	6.463E-08	2.185E-08	1.122E-08	5.334E-09	1.916E-09	9.503E-10	5.595E-10	3.664E-10	2.578E-10	1.911E-10	1.472E-10
ESE	1.181E-07	3.993E-08	2.050E-08	9.747E-09	3.501E-09	1.736E-09	1.022E-09	6.694E-10	4.710E-10	3.491E-10	2.690E-10
SE	2.322E-07	7.852E-08	4.031E-08	1.917E-08	6.885E-09	3.414E-09	2.010E-09	1.316E-09	9.262E-10	6.864E-10	5.290E-10
SSE	3.141E-07	1.062E-07	5.453E-08	2.592E-08	9.312E-09	4.618E-09	2.719E-09	1.780E-09	1.253E-09	9.285E-10	7.155E-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	3.865E-10	1.717E-10	1.040E-10	5.257E-11	3.182E-11	2.133E-11	1.529E-11	1.148E-11	8.924E-12	7.129E-12	5.819E-12
SSW	2.027E-10	9.007E-11	5.456E-11	2.758E-11	1.669E-11	1.119E-11	8.019E-12	6.021E-12	4.682E-12	3.740E-12	3.052E-12
SW	1.344E-10	5.969E-11	3.616E-11	1.828E-11	1.106E-11	7.417E-12	5.314E-12	3.991E-12	3.103E-12	2.478E-12	2.023E-12
WSW	9.965E-11	4.427E-11	2.682E-11	1.355E-11	8.204E-12	5.500E-12	3.941E-12	2.959E-12	2.301E-12	1.838E-12	1.500E-12
W	9.755E-11	4.333E-11	2.625E-11	1.327E-11	8.030E-12	5.384E-12	3.858E-12	2.897E-12	2.252E-12	1.799E-12	1.469E-12
WNW	1.727E-10	7.672E-11	4.647E-11	2.349E-11	1.422E-11	9.532E-12	6.830E-12	5.129E-12	3.988E-12	3.186E-12	2.600E-12
NW	3.375E-10	1.499E-10	9.082E-11	4.590E-11	2.778E-11	1.863E-11	1.335E-11	1.002E-11	7.793E-12	6.225E-12	5.081E-12
NNW	3.100E-10	1.377E-10	8.343E-11	4.217E-11	2.552E-11	1.711E-11	1.226E-11	9.207E-12	7.159E-12	5.718E-12	4.668E-12
N	4.407E-10	1.958E-10	1.186E-10	5.994E-11	3.628E-11	2.432E-11	1.743E-11	1.309E-11	1.018E-11	8.128E-12	6.634E-12
NNE	3.030E-10	1.346E-10	8.154E-11	4.122E-11	2.495E-11	1.673E-11	1.198E-11	8.999E-12	6.997E-12	5.589E-12	4.562E-12
NE	1.215E-10	5.396E-11	3.269E-11	1.652E-11	1.000E-11	6.705E-12	4.804E-12	3.607E-12	2.805E-12	2.241E-12	1.829E-12
ENE	8.858E-11	3.935E-11	2.384E-11	1.205E-11	7.292E-12	4.889E-12	3.503E-12	2.631E-12	2.045E-12	1.634E-12	1.334E-12
E	1.170E-10	5.196E-11	3.148E-11	1.591E-11	9.629E-12	6.456E-12	4.626E-12	3.474E-12	2.701E-12	2.157E-12	1.761E-12
ESE	2.137E-10	9.493E-11	5.751E-11	2.907E-11	1.759E-11	1.180E-11	8.452E-12	6.347E-12	4.935E-12	3.942E-12	3.217E-12
SE	4.202E-10	1.867E-10	1.131E-10	5.716E-11	3.460E-11	2.320E-11	1.662E-11	1.248E-11	9.704E-12	7.752E-12	6.327E-12
SSE	5.684E-10	2.525E-10	1.530E-10	7.731E-11	4.679E-11	3.137E-11	2.248E-11	1.688E-11	1.313E-11	1.048E-11	8.558E-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	3.624E-08	7.423E-09	1.938E-09	8.703E-10	4.924E-10	1.893E-10	5.477E-11	2.171E-11	1.159E-11	7.176E-12
SSW	1.901E-08	3.894E-09	1.017E-09	4.566E-10	2.583E-10	9.932E-11	2.873E-11	1.139E-11	6.081E-12	3.764E-12
SW	1.260E-08	2.581E-09	6.737E-10	3.026E-10	1.712E-10	6.583E-11	1.904E-11	7.548E-12	4.031E-12	2.495E-12
WSW	9.344E-09	1.914E-09	4.997E-10	2.244E-10	1.270E-10	4.882E-11	1.412E-11	5.598E-12	2.989E-12	1.850E-12
W	9.147E-09	1.874E-09	4.891E-10	2.197E-10	1.243E-10	4.779E-11	1.382E-11	5.479E-12	2.926E-12	1.811E-12
WNW	1.619E-08	3.317E-09	8.659E-10	3.889E-10	2.200E-10	8.461E-11	2.448E-11	9.701E-12	5.180E-12	3.206E-12
NW	3.164E-08	6.482E-09	1.692E-09	7.600E-10	4.299E-10	1.653E-10	4.783E-11	1.896E-11	1.012E-11	6.266E-12
NNW	2.907E-08	5.954E-09	1.554E-09	6.981E-10	3.949E-10	1.519E-10	4.394E-11	1.741E-11	9.299E-12	5.756E-12
N	4.132E-08	8.464E-09	2.209E-09	9.923E-10	5.614E-10	2.159E-10	6.245E-11	2.475E-11	1.322E-11	8.182E-12
NNE	2.841E-08	5.820E-09	1.519E-09	6.824E-10	3.860E-10	1.485E-10	4.295E-11	1.702E-11	9.090E-12	5.626E-12
NE	1.139E-08	2.333E-09	6.090E-10	2.735E-10	1.547E-10	5.951E-11	1.722E-11	6.823E-12	3.644E-12	2.255E-12
ENE	8.306E-09	1.701E-09	4.442E-10	1.995E-10	1.128E-10	4.340E-11	1.255E-11	4.976E-12	2.657E-12	1.645E-12
E	1.097E-08	2.246E-09	5.865E-10	2.634E-10	1.490E-10	5.730E-11	1.658E-11	6.570E-12	3.509E-12	2.172E-12
ESE	2.004E-08	4.105E-09	1.072E-09	4.812E-10	2.722E-10	1.047E-10	3.029E-11	1.200E-11	6.410E-12	3.968E-12
SE	3.941E-08	8.071E-09	2.107E-09	9.464E-10	5.354E-10	2.059E-10	5.956E-11	2.361E-11	1.261E-11	7.802E-12
SSE	5.330E-08	1.092E-08	2.850E-09	1.280E-09	7.241E-10	2.785E-10	8.056E-11	3.193E-11	1.705E-11	1.055E-11

VENTS GROUND LEVEL RELEASES - JAN-JUN 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	5.444E-06	5.425E-06	4.828E-06	3.153E-08
A	SITE BOUNDARY	SSW	0.82	1327.	3.592E-06	3.576E-06	3.179E-06	1.526E-08
A	SITE BOUNDARY	SW	0.98	1569.	1.404E-06	1.397E-06	1.230E-06	6.539E-09
A	SITE BOUNDARY	WSW	0.93	1489.	8.359E-07	8.321E-07	7.345E-07	5.554E-09
A	SITE BOUNDARY	W	0.91	1468.	8.781E-07	8.671E-07	7.655E-07	5.640E-09
A	SITE BOUNDARY	WNW	0.94	1509.	1.112E-06	1.109E-06	9.768E-07	9.297E-09
A	SITE BOUNDARY	NW	0.81	1307.	3.765E-06	3.754E-06	3.337E-06	2.644E-08
A	SITE BOUNDARY	NNW	0.69	1106.	8.749E-06	8.715E-06	7.826E-06	3.444E-08
A	SITE BOUNDARY	N	0.67	1086.	1.311E-05	1.306E-05	1.174E-05	5.048E-08
A	SITE BOUNDARY	NNE	0.60	965.	1.049E-05	1.045E-05	9.459E-06	4.206E-08
A	SITE BOUNDARY	NE	0.62	1005.	4.303E-06	4.287E-06	3.869E-06	1.585E-08
A	SITE BOUNDARY	ENE	0.59	945.	2.453E-06	2.446E-06	2.216E-06	1.273E-08
A	SITE BOUNDARY	E	0.53	845.	3.094E-06	3.087E-06	2.815E-06	2.018E-08
A	SITE BOUNDARY	ESE	0.54	865.	5.476E-06	5.464E-06	4.975E-06	3.549E-08
A	SITE BOUNDARY	SE	0.65	1046.	8.644E-06	8.620E-06	7.758E-06	5.127E-08
A	SITE BOUNDARY	SSE	0.81	1307.	9.132E-06	9.094E-06	8.090E-06	4.453E-08
A	NEAR. RESIDENCE	SW	1.30	2092.	7.173E-07	7.124E-07	6.150E-07	3.143E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	3.755E-07	3.730E-07	3.219E-07	2.331E-09
A	NEAR. RESIDENCE	W	1.00	1609.	6.957E-07	6.930E-07	6.083E-07	4.449E-09
A	NEAR. RESIDENCE	WNW	1.60	2575.	3.198E-07	3.181E-07	2.697E-07	2.414E-09
A	NEAR. RESIDENCE	NW	0.90	1448.	2.914E-06	2.904E-06	2.566E-06	2.022E-08
A	NEAR. RESIDENCE	NNW	1.90	3058.	9.570E-07	9.465E-07	7.938E-07	2.850E-09
A	NEAR. RESIDENCE	N	3.00	4828.	5.757E-07	5.658E-07	4.550E-07	1.380E-09
A	NEAR. RESIDENCE	NNE	2.70	4345.	4.655E-07	4.582E-07	3.723E-07	1.211E-09
A	NEAR. RESIDENCE	ENE	1.70	2736.	2.579E-07	2.557E-07	2.162E-07	1.067E-09
A	NEAR. RESIDENCE	E	1.80	2897.	2.422E-07	2.403E-07	2.021E-07	1.226E-09
A	NEAR. RESIDENCE	ESE	2.40	3863.	2.494E-07	2.467E-07	2.022E-07	1.125E-09
A	NEAREST COW	NNW	3.50	5633.	2.926E-07	2.866E-07	2.270E-07	6.832E-10
A	NEAREST GARDEN	SW	1.30	2092.	7.173E-07	7.124E-07	6.150E-07	3.143E-09
A	NEAREST GARDEN	WSW	1.80	2897.	1.818E-07	1.801E-07	1.516E-07	1.044E-09
A	NEAREST GARDEN	WNW	1.60	2575.	3.198E-07	3.181E-07	2.697E-07	2.414E-09
A	NEAREST GARDEN	NW	2.80	4506.	2.426E-07	2.398E-07	1.935E-07	1.240E-09
A	NEAREST GARDEN	NNW	1.90	3058.	9.570E-07	9.465E-07	7.938E-07	2.850E-09
A	NEAREST GARDEN	N	3.00	4828.	5.757E-07	5.658E-07	4.550E-07	1.380E-09
A	NEAREST GARDEN	ENE	1.70	2736.	2.579E-07	2.557E-07	2.162E-07	1.067E-09
A	NEAREST GARDEN	E	1.80	2897.	2.422E-07	2.403E-07	2.021E-07	1.226E-09
A	NEAREST GARDEN	ESE	2.40	3863.	2.494E-07	2.467E-07	2.022E-07	1.125E-09

Atmospheric Diffusion Estimates

Elevated Releases

January-March 1995

ERP ELEVATED STACK RELEASES - JAN-MAR 1995
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	6.372E-08	1.192E-07	1.349E-07	1.128E-07	8.556E-08	6.573E-08	5.144E-08	4.122E-08	3.381E-08	3.655E-08	3.824E-08
SSW	3.198E-08	4.410E-08	4.861E-08	4.897E-08	4.719E-08	3.982E-08	3.307E-08	3.252E-08	2.742E-08	2.742E-08	2.390E-08
SW	1.046E-08	4.362E-08	6.374E-08	8.254E-08	9.415E-08	5.992E-08	4.156E-08	3.070E-08	2.375E-08	1.903E-08	1.568E-08
WSW	3.961E-09	2.029E-08	3.409E-08	4.921E-08	8.774E-08	5.745E-08	4.088E-08	3.093E-08	2.447E-08	2.003E-08	1.683E-08
W	7.086E-09	3.582E-08	6.247E-08	6.536E-08	5.818E-08	3.799E-08	2.741E-08	2.111E-08	1.701E-08	1.416E-08	1.208E-08
WNW	1.655E-08	1.036E-07	1.653E-07	1.776E-07	1.722E-07	1.036E-07	6.987E-08	5.336E-08	4.290E-08	3.415E-08	2.802E-08
NW	6.602E-09	4.072E-08	1.256E-07	2.555E-07	3.681E-07	2.154E-07	1.426E-07	1.044E-07	8.065E-08	6.359E-08	5.176E-08
NNW	8.981E-09	1.176E-08	3.385E-08	5.986E-08	9.378E-08	9.501E-08	8.924E-08	8.180E-08	7.651E-08	6.081E-08	4.984E-08
N	7.547E-09	3.606E-08	4.796E-08	4.712E-08	4.280E-08	3.656E-08	3.041E-08	2.491E-08	2.074E-08	1.756E-08	1.509E-08
NNE	8.765E-09	5.941E-08	7.611E-08	6.269E-08	4.771E-08	3.835E-08	3.149E-08	2.635E-08	2.245E-08	1.944E-08	1.708E-08
NE	1.704E-09	2.721E-08	4.571E-08	4.298E-08	3.764E-08	3.228E-08	2.741E-08	2.339E-08	2.017E-08	1.761E-08	1.556E-08
ENE	2.986E-11	1.815E-09	5.403E-09	8.190E-09	1.020E-08	9.597E-09	8.428E-09	7.306E-09	6.360E-09	5.586E-09	4.959E-09
E	4.593E-16	4.111E-10	7.073E-09	1.423E-08	1.859E-08	1.692E-08	1.433E-08	1.203E-08	1.019E-08	8.744E-09	7.603E-09
ESE	2.651E-09	1.492E-08	2.401E-08	2.654E-08	2.655E-08	2.312E-08	1.945E-08	1.638E-08	1.393E-08	1.203E-08	1.052E-08
SE	1.165E-08	4.826E-08	6.242E-08	6.577E-08	6.429E-08	5.509E-08	4.573E-08	3.803E-08	3.201E-08	2.731E-08	2.362E-08
SSE	2.828E-08	1.095E-07	1.403E-07	1.324E-07	1.132E-07	9.149E-08	7.360E-08	6.004E-08	4.989E-08	6.607E-08	7.720E-08

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

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.386E-08	2.347E-08	1.534E-08	8.890E-09	6.395E-09	4.936E-09	3.869E-09	3.152E-09	2.676E-09	2.313E-09	2.013E-09
SSW	2.171E-08	1.577E-08	1.016E-08	5.764E-09	4.039E-09	3.009E-09	2.335E-09	1.886E-09	1.570E-09	1.336E-09	1.157E-09
SW	1.392E-08	8.890E-09	5.695E-09	3.203E-09	2.178E-09	1.611E-09	1.260E-09	1.014E-09	8.403E-10	7.125E-10	6.150E-10
WSW	1.536E-08	1.201E-08	9.471E-09	6.543E-09	4.499E-09	3.372E-09	2.672E-09	2.192E-09	1.847E-09	1.590E-09	1.391E-09
W	1.050E-08	6.429E-09	5.509E-09	4.648E-09	4.094E-09	3.141E-09	2.492E-09	2.052E-09	1.735E-09	1.498E-09	1.314E-09
WNW	2.392E-08	1.385E-08	9.653E-09	6.135E-09	4.326E-09	3.300E-09	2.660E-09	2.203E-09	1.859E-09	1.595E-09	1.391E-09
NW	4.366E-08	2.396E-08	1.616E-08	9.694E-09	6.512E-09	4.793E-09	3.804E-09	3.098E-09	2.583E-09	2.202E-09	1.910E-09
NNW	4.296E-08	2.537E-08	1.664E-08	9.687E-09	6.623E-09	4.940E-09	3.933E-09	3.246E-09	2.792E-09	2.416E-09	2.106E-09
N	1.316E-08	7.879E-09	6.055E-09	4.317E-09	3.399E-09	2.733E-09	2.137E-09	1.732E-09	1.442E-09	1.228E-09	1.064E-09
NNE	1.938E-08	3.411E-08	2.232E-08	1.299E-08	8.901E-09	6.651E-09	5.249E-09	4.301E-09	3.621E-09	3.113E-09	2.720E-09
NE	1.769E-08	2.524E-08	1.633E-08	9.348E-09	6.329E-09	4.686E-09	3.701E-09	3.026E-09	2.537E-09	2.169E-09	1.886E-09
ENE	5.542E-09	7.868E-09	5.157E-09	2.992E-09	2.037E-09	1.514E-09	1.215E-09	1.003E-09	8.393E-10	7.173E-10	6.235E-10
E	7.944E-09	9.745E-09	6.355E-09	3.662E-09	2.481E-09	1.837E-09	1.438E-09	1.170E-09	9.989E-10	8.661E-10	7.520E-10
ESE	1.095E-08	1.379E-08	9.159E-09	5.399E-09	3.715E-09	2.781E-09	2.196E-09	1.799E-09	1.514E-09	1.301E-09	1.136E-09
SE	2.069E-08	1.256E-08	9.509E-09	6.576E-09	4.746E-09	3.702E-09	3.035E-09	2.574E-09	2.155E-09	1.843E-09	1.602E-09
SSE	6.547E-08	3.603E-08	2.298E-08	1.289E-08	8.610E-09	6.308E-09	4.899E-09	3.960E-09	3.296E-09	2.804E-09	2.428E-09

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

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	1.216E-07	8.281E-08	5.116E-08	3.697E-08	3.612E-08	2.216E-08	9.214E-09	4.898E-09	3.175E-09	2.309E-09
SSW	4.777E-08	4.431E-08	3.469E-08	3.057E-08	2.413E-08	1.460E-08	5.974E-09	3.014E-09	1.894E-09	1.339E-09
SW	6.762E-08	7.636E-08	4.211E-08	2.394E-08	1.602E-08	8.587E-09	3.301E-09	1.622E-09	1.018E-09	7.143E-10
WSW	3.775E-08	6.571E-08	4.132E-08	2.463E-08	1.724E-08	1.163E-08	6.285E-09	3.393E-09	2.198E-09	1.592E-09
W	5.783E-08	5.080E-08	2.771E-08	1.710E-08	1.211E-08	6.926E-09	4.593E-09	3.136E-09	2.057E-09	1.500E-09
WNW	1.571E-07	1.429E-07	7.226E-08	4.255E-08	2.832E-08	1.422E-08	6.113E-09	3.318E-09	2.203E-09	1.598E-09
NW	1.645E-07	2.752E-07	1.467E-07	8.095E-08	5.226E-08	2.487E-08	9.717E-09	4.856E-09	3.104E-09	2.207E-09
NNW	4.050E-08	8.679E-08	8.780E-08	7.204E-08	5.054E-08	2.540E-08	9.869E-09	4.986E-09	3.269E-09	2.412E-09
N	4.494E-08	4.099E-08	2.985E-08	2.072E-08	1.510E-08	8.241E-09	4.295E-09	2.672E-09	1.738E-09	1.231E-09
NNE	6.643E-08	4.688E-08	3.126E-08	2.242E-08	1.863E-08	2.560E-08	1.325E-08	6.690E-09	4.313E-09	3.118E-09
NE	4.038E-08	3.644E-08	2.710E-08	2.011E-08	1.695E-08	1.960E-08	9.558E-09	4.730E-09	3.033E-09	2.173E-09
ENE	5.844E-09	9.484E-09	8.291E-09	6.336E-09	5.360E-09	6.146E-09	3.049E-09	1.534E-09	1.001E-09	7.187E-10
E	8.772E-09	1.688E-08	1.410E-08	1.017E-08	8.067E-09	7.838E-09	3.736E-09	1.849E-09	1.181E-09	8.632E-10
ESE	2.311E-08	2.502E-08	1.920E-08	1.391E-08	1.213E-08	1.110E-08	5.486E-09	2.796E-09	1.804E-09	1.303E-09
SE	6.076E-08	6.053E-08	4.515E-08	3.194E-08	2.363E-08	1.301E-08	6.414E-09	3.714E-09	2.546E-09	1.846E-09
SSE	1.299E-07	1.078E-07	7.295E-08	5.896E-08	6.956E-08	3.677E-08	1.323E-08	6.358E-09	3.975E-09	2.811E-09

ERP ELEVATED STACK RELEASES - JAN-MAR 1995
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	6.371E-08	1.191E-07	1.347E-07	1.127E-07	8.536E-08	6.552E-08	5.122E-08	4.101E-08	3.360E-08	3.630E-08	3.793E-08
SSW	3.196E-08	4.406E-08	4.855E-08	4.888E-08	4.703E-08	3.962E-08	3.232E-08	3.281E-08	3.172E-08	2.712E-08	2.359E-08
SW	1.046E-08	4.359E-08	6.365E-08	8.237E-08	9.383E-08	5.964E-08	4.131E-08	3.047E-08	2.354E-08	1.884E-08	1.550E-08
WSW	3.960E-09	2.028E-08	3.405E-08	4.910E-08	8.735E-08	5.708E-08	4.054E-08	3.062E-08	2.418E-08	1.975E-08	1.657E-08
W	7.082E-09	3.578E-08	6.238E-08	6.521E-08	5.794E-08	3.777E-08	2.720E-08	2.091E-08	1.682E-08	1.397E-08	1.189E-08
WNW	1.655E-08	1.035E-07	1.650E-07	1.771E-07	1.713E-07	1.029E-07	6.923E-08	5.276E-08	4.232E-08	3.362E-08	2.753E-08
NW	6.598E-09	4.069E-08	1.255E-07	2.551E-07	3.670E-07	2.145E-07	1.418E-07	1.038E-07	8.004E-08	6.304E-08	5.125E-08
NNW	8.978E-09	1.175E-08	3.381E-08	5.974E-08	9.345E-08	9.454E-08	8.868E-08	8.117E-08	7.581E-08	6.017E-08	4.925E-08
N	7.545E-09	3.605E-08	4.792E-08	4.707E-08	4.270E-08	3.645E-08	3.029E-08	2.480E-08	2.063E-08	1.745E-08	1.498E-08
NNE	8.763E-09	5.937E-08	7.603E-08	6.259E-08	4.758E-08	3.821E-08	3.134E-08	2.620E-08	2.230E-08	1.929E-08	1.694E-08
NE	1.704E-09	2.719E-08	4.563E-08	4.287E-08	3.749E-08	3.210E-08	2.722E-08	2.319E-08	1.998E-08	1.742E-08	1.537E-08
ENE	2.985E-11	1.814E-09	5.397E-09	8.175E-09	1.017E-08	9.563E-09	8.390E-09	7.268E-09	6.321E-09	5.547E-09	4.919E-09
E	4.592E-16	4.108E-10	7.064E-09	1.420E-08	1.853E-08	1.686E-08	1.426E-08	1.196E-08	1.012E-08	8.675E-09	7.536E-09
ESE	2.649E-09	1.490E-08	2.394E-08	2.645E-08	2.643E-08	2.298E-08	1.931E-08	1.624E-08	1.381E-08	1.189E-08	1.039E-08
SE	1.165E-08	4.823E-08	6.237E-08	6.569E-08	6.416E-08	5.493E-08	4.555E-08	3.786E-08	3.183E-08	2.714E-08	2.346E-08
SSE	2.827E-08	1.094E-07	1.402E-07	1.323E-07	1.131E-07	9.128E-08	7.338E-08	5.982E-08	4.968E-08	6.572E-08	7.668E-08

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

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.354E-08	2.307E-08	1.498E-08	8.573E-09	6.077E-09	4.621E-09	3.572E-09	2.870E-09	2.402E-09	2.046E-09	1.755E-09
SSW	2.139E-08	1.540E-08	9.841E-09	5.495E-09	3.790E-09	2.779E-09	2.122E-09	1.688E-09	1.383E-09	1.159E-09	9.878E-10
SW	1.374E-08	8.704E-09	5.535E-09	3.067E-09	2.055E-09	1.496E-09	1.153E-09	9.141E-10	7.466E-10	6.238E-10	5.306E-10
WSW	1.508E-08	1.163E-08	9.055E-09	6.099E-09	4.094E-09	2.996E-09	2.317E-09	1.856E-09	1.527E-09	1.283E-09	1.095E-09
W	1.032E-08	6.251E-09	5.291E-09	4.352E-09	3.737E-09	2.800E-09	2.170E-09	1.746E-09	1.443E-09	1.217E-09	1.043E-09
WNW	2.345E-08	1.342E-08	9.255E-09	5.750E-09	3.965E-09	2.958E-09	2.331E-09	1.888E-09	1.558E-09	1.307E-09	1.115E-09
NW	4.318E-08	2.356E-08	1.580E-08	9.372E-09	6.225E-09	4.531E-09	3.556E-09	2.864E-09	2.362E-09	1.992E-09	1.709E-09
NNW	4.239E-08	2.486E-08	1.619E-08	9.298E-09	6.271E-09	4.614E-09	3.624E-09	2.950E-09	2.502E-09	2.136E-09	1.836E-09
N	1.305E-08	7.789E-09	5.965E-09	4.224E-09	3.299E-09	2.630E-09	2.041E-09	1.642E-09	1.357E-09	1.147E-09	9.862E-10
NNE	1.921E-08	3.362E-08	2.189E-08	1.262E-08	8.560E-09	6.334E-09	4.950E-09	4.016E-09	3.348E-09	2.851E-09	2.467E-09
NE	1.746E-08	2.481E-08	1.596E-08	9.036E-09	6.051E-09	4.432E-09	3.463E-09	2.802E-09	2.325E-09	1.967E-09	1.692E-09
ENE	5.492E-09	7.745E-09	5.049E-09	2.898E-09	1.952E-09	1.435E-09	1.140E-09	9.311E-10	7.707E-10	6.518E-10	5.607E-10
E	7.867E-09	9.610E-09	6.238E-09	3.562E-09	2.391E-09	1.754E-09	1.361E-09	1.098E-09	9.286E-10	7.978E-10	6.865E-10
ESE	1.080E-08	1.356E-08	8.962E-09	5.230E-09	3.563E-09	2.641E-09	2.065E-09	1.676E-09	1.397E-09	1.189E-09	1.029E-09
SE	2.053E-08	1.241E-08	9.365E-09	6.427E-09	4.601E-09	3.556E-09	2.888E-09	2.423E-09	2.011E-09	1.704E-09	1.469E-09
SSE	6.497E-08	3.560E-08	2.260E-08	1.258E-08	8.326E-09	6.048E-09	4.657E-09	3.733E-09	3.080E-09	2.599E-09	2.231E-09

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

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	1.215E-07	8.261E-08	5.095E-08	3.675E-08	3.582E-08	2.180E-08	8.888E-09	4.590E-09	2.892E-09	2.044E-09
SSW	4.770E-08	4.415E-08	3.446E-08	3.028E-08	2.382E-08	1.426E-08	5.703E-09	2.786E-09	1.696E-09	1.162E-09
SW	6.751E-08	7.609E-08	4.186E-08	2.373E-08	1.584E-08	8.414E-09	3.165E-09	1.508E-09	9.186E-10	6.257E-10
WSW	3.768E-08	6.540E-08	4.098E-08	2.433E-08	1.696E-08	1.125E-08	5.865E-09	3.017E-09	1.862E-09	1.286E-09
W	5.773E-08	5.059E-08	2.750E-08	1.699E-08	1.192E-08	6.728E-09	4.287E-09	2.798E-09	1.752E-09	1.219E-09
WNW	1.567E-07	1.422E-07	7.161E-08	4.[illegible]	2.782E-08	1.380E-08	5.736E-09	2.976E-09	1.889E-09	1.310E-09
NW	1.642E-07	2.743E-07	1.460E-07	8.035E-08	5.176E-08	2.447E-08	9.402E-09	4.593E-09	2.871E-09	1.997E-09
NNW	4.043E-08	8.645E-08	8.724E-08	7.139E-08	4.995E-08	2.490E-08	9.484E-09	4.660E-09	2.972E-09	2.133E-09
N	4.490E-08	4.089E-08	2.973E-08	2.061E-08	1.500E-08	8.148E-09	4.200E-09	2.57[illegible]E-09	1.648E-09	1.150E-09
NNE	6.635E-08	4.675E-08	3.112E-08	2.227E-08	1.848E-08	2.521E-08	1.288E-08	6.374E-09	4.028E-09	2.856E-09
NE	4.030E-08	3.629E-08	2.691E-08	1.992E-08	1.675E-08	1.924E-08	9.248E-09	4.476E-09	2.809E-09	1.971E-09
ENE	5.836E-09	9.456E-09	8.254E-09	6.296E-09	5.317E-09	6.046E-09	2.956E-09	1.455E-09	9.296E-10	6.533E-10
E	8.758E-09	1.683E-08	1.403E-08	1.010E-08	7.996E-09	7.724E-09	3.636E-09	1.767E-09	1.108E-09	7.953E-10
ESE	2.305E-08	2.490E-08	1.906E-08	1.377E-08	1.099E-08	1.090E-08	5.319E-09	2.657E-09	1.681E-09	1.191E-09
SE	6.070E-08	6.040E-08	4.498E-08	3.177E-08	2.346E-08	1.286E-08	6.268E-09	3.567E-09	2.399E-09	1.708E-09
SSE	1.298E-07	1.076E-07	7.273E-08	5.869E-08	6.909E-08	3.635E-08	1.291E-08	6.099E-09	3.748E-09	2.605E-09

ERP ELEVATED STACK RELEASES - JAN-MAR 1995
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	6.372E-08	1.181E-07	1.321E-07	1.103E-07	8.333E-08	6.366E-08	4.950E-08	3.941E-08	3.212E-08	3.470E-08	3.631E-08
SSW	3.197E-08	4.370E-08	4.776E-08	4.822E-08	4.633E-08	3.880E-08	3.142E-08	3.172E-08	3.055E-08	2.598E-08	2.251E-08
SW	1.046E-08	4.322E-08	6.269E-08	8.158E-08	9.241E-08	5.812E-08	3.990E-08	2.921E-08	2.242E-08	1.784E-08	1.460E-08
WSW	3.961E-09	2.011E-08	3.348E-08	4.859E-08	8.670E-08	5.648E-08	4.004E-08	3.020E-08	2.383E-08	1.946E-08	1.632E-08
W	7.085E-09	3.516E-08	6.148E-08	6.416E-08	5.675E-08	3.681E-08	2.645E-08	2.030E-08	1.632E-08	1.355E-08	1.154E-08
WNW	1.655E-08	1.027E-07	1.624E-07	1.744E-07	1.682E-07	1.002E-07	6.706E-08	5.096E-08	4.081E-08	3.231E-08	2.638E-08
NW	6.601E-09	4.036E-08	1.244E-07	2.534E-07	3.620E-07	2.095E-07	1.375E-07	1.001E-07	7.688E-08	6.025E-08	4.873E-08
NNW	8.980E-09	1.166E-08	3.347E-08	5.944E-08	9.276E-08	9.343E-08	8.747E-08	8.004E-08	7.483E-08	5.921E-08	4.828E-08
N	7.546E-09	3.574E-08	4.710E-08	4.633E-08	4.198E-08	3.567E-08	2.948E-08	2.401E-08	1.988E-08	1.674E-08	1.431E-08
NNE	8.764E-09	5.887E-08	7.446E-08	6.108E-08	4.638E-08	3.719E-08	3.044E-08	2.539E-08	2.156E-08	1.862E-08	1.632E-08
NE	1.704E-09	2.696E-08	4.474E-08	4.194E-08	3.668E-08	3.137E-08	2.654E-08	2.256E-08	1.939E-08	1.687E-08	1.486E-08
ENE	2.985E-11	1.800E-09	5.345E-09	8.129E-09	1.007E-08	9.425E-09	8.231E-09	7.101E-09	6.156E-09	5.388E-09	4.767E-09
E	4.592E-16	4.110E-10	7.070E-09	1.422E-08	1.841E-08	1.660E-08	1.394E-08	1.162E-08	9.770E-09	8.329E-09	7.202E-09
ESE	2.650E-09	1.478E-08	2.358E-08	2.609E-08	2.603E-08	2.253E-08	1.883E-08	1.576E-08	1.335E-08	1.146E-08	9.969E-09
SE	1.165E-08	4.783E-08	6.142E-08	6.489E-08	6.326E-08	5.388E-08	4.443E-08	3.672E-08	3.073E-08	2.609E-08	2.245E-08
SSE	2.828E-08	1.085E-07	1.378E-07	1.301E-07	1.110E-07	8.915E-08	7.127E-08	5.779E-08	4.776E-08	6.344E-08	7.432E-08

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

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	3.205E-08	2.187E-08	1.384E-08	7.522E-09	5.038E-09	3.652E-09	2.716E-09	2.110E-09	1.718E-09	1.436E-09	1.212E-09
SSW	2.038E-08	1.456E-08	9.076E-09	4.835E-09	3.175E-09	2.265E-09	1.693E-09	1.321E-09	1.065E-09	8.785E-10	7.390E-10
SW	1.291E-08	8.086E-09	5.016E-09	2.654E-09	1.695E-09	1.187E-09	8.912E-10	6.916E-10	5.544E-10	4.556E-10	3.818E-10
WSW	1.489E-08	1.145E-08	8.723E-09	5.701E-09	3.731E-09	2.679E-09	2.043E-09	1.617E-09	1.319E-09	1.101E-09	9.354E-10
W	1.002E-08	6.095E-09	5.222E-09	4.150E-09	3.403E-09	2.503E-09	1.912E-09	1.520E-09	1.244E-09	1.042E-09	8.879E-10
WNW	2.240E-08	1.258E-08	8.490E-09	5.034E-09	3.274E-09	2.327E-09	1.781E-09	1.418E-09	1.153E-09	9.553E-10	8.063E-10
NW	4.086E-08	2.173E-08	1.420E-08	8.001E-09	5.064E-09	3.543E-09	2.700E-09	2.124E-09	1.716E-09	1.420E-09	1.198E-09
NNW	4.139E-08	2.368E-08	1.498E-08	8.098E-09	5.083E-09	3.526E-09	2.636E-09	2.058E-09	1.698E-09	1.421E-09	1.200E-09
N	1.242E-08	7.307E-09	5.566E-09	3.937E-09	3.031E-09	2.338E-09	1.773E-09	1.398E-09	1.135E-09	9.434E-10	7.993E-10
NNE	1.860E-08	3.295E-08	2.083E-08	1.139E-08	7.332E-09	5.200E-09	3.919E-09	3.081E-09	2.498E-09	2.073E-09	1.753E-09
NE	1.696E-08	2.426E-08	1.516E-08	8.158E-09	5.203E-09	3.664E-09	2.777E-09	2.197E-09	1.788E-09	1.486E-09	1.258E-09
ENE	5.339E-09	7.597E-09	4.810E-09	2.598E-09	1.629E-09	1.129E-09	8.525E-10	6.722E-10	5.422E-10	4.480E-10	3.773E-10
E	7.517E-09	9.259E-09	5.843E-09	3.151E-09	1.983E-09	1.378E-09	1.021E-09	7.901E-10	6.439E-10	5.354E-10	4.490E-10
ESE	1.038E-08	1.318E-08	8.475E-09	4.670E-09	2.975E-09	2.086E-09	1.555E-09	1.209E-09	9.697E-10	7.969E-10	6.673E-10
SE	1.957E-08	1.167E-08	8.757E-09	5.990E-09	4.280E-09	3.314E-09	2.703E-09	2.273E-09	1.853E-09	1.546E-09	1.314E-09
SSE	6.265E-08	3.338E-08	2.053E-08	1.082E-08	6.810E-09	4.745E-09	3.525E-09	2.737E-09	2.195E-09	1.805E-09	1.513E-09

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

DIRECTION FROM SITE	.5-1	1-2	2-3	SEGMENT BOUNDARIES IN MILES 3-4	4-5	5-10	10-20	20-30	30-40	40-50
S	1.193E-07	8.057E-08	4.924E-08	3.518E-08	3.426E-08	2.057E-08	7.822E-09	3.647E-09	2.134E-09	1.437E-09
SSW	4.706E-08	4.340E-08	3.351E-08	2.914E-08	2.275E-08	1.341E-08	5.039E-09	2.279E-09	1.330E-09	8.820E-10
SW	6.676E-08	7.477E-08	4.048E-08	2.262E-08	1.494E-08	7.794E-09	2.753E-09	1.204E-09	6.964E-10	4.575E-10
WSW	3.722E-08	6.480E-08	4.049E-08	2.399E-08	1.672E-08	1.100E-08	5.497E-09	2.705E-09	1.625E-09	1.104E-09
W	5.682E-08	4.954E-08	2.675E-08	1.640E-08	1.157E-08	6.579E-09	4.056E-09	2.506E-09	1.527E-09	1.045E-09
WNW	1.544E-07	1.393E-07	6.945E-08	4.047E-08	2.666E-08	1.294E-08	5.020E-09	2.361E-09	1.421E-09	9.587E-10
NW	1.631E-07	2.701E-07	1.417E-07	7.717E-08	4.923E-08	2.263E-08	8.072E-09	3.611E-09	2.133E-09	1.425E-09
NNW	4.016E-08	8.565E-08	8.609E-08	7.037E-08	4.897E-08	2.375E-08	8.288E-09	3.585E-09	2.086E-09	1.421E-09
N	4.423E-08	4.014E-08	2.894E-08	1.986E-08	1.433E-08	7.670E-09	3.896E-09	2.297E-09	1.405E-09	9.467E-10
NNE	6.505E-08	4.556E-08	3.022E-08	2.153E-08	1.785E-08	2.438E-08	1.168E-08	5.256E-09	3.098E-09	2.080E-09
NE	3.955E-08	3.549E-08	2.623E-08	1.934E-08	1.624E-08	1.859E-08	8.401E-09	3.719E-09	2.207E-09	1.491E-09
ENE	5.795E-09	9.353E-09	8.098E-09	6.133E-09	5.163E-09	5.857E-09	2.659E-09	1.152E-09	6.742E-10	4.497E-10
E	8.768E-09	1.668E-08	1.372E-08	9.749E-09	7.653E-09	7.354E-09	3.230E-09	1.396E-09	8.003E-10	5.356E-10
ESE	2.274E-08	2.449E-08	1.859E-08	1.332E-08	1.056E-08	1.047E-08	4.762E-09	2.110E-09	1.217E-09	8.001E-10
SE	5.994E-08	5.945E-08	4.387E-08	3.067E-08	2.246E-08	1.213E-08	5.845E-09	3.327E-09	2.236E-09	1.551E-09
SSE	1.278E-07	1.055E-07	7.064E-08	5.660E-08	6.677E-08	3.417E-08	1.120E-08	4.807E-09	2.756E-09	1.813E-09

ERP ELEVATED STACK RELEASES - JAN-MAR 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	1.140E-08	8.791E-09	6.756E-09	4.254E-09	1.910E-09	1.130E-09	7.494E-10	5.326E-10	3.967E-10	3.134E-10	2.821E-10
SSW	2.700E-09	2.333E-09	2.185E-09	1.625E-09	8.416E-10	5.293E-10	3.625E-10	2.621E-10	2.386E-10	1.807E-10	1.415E-10
SW	2.141E-09	1.754E-09	1.510E-09	1.053E-09	8.518E-10	4.601E-10	2.845E-10	1.931E-10	1.396E-10	1.056E-10	8.270E-11
WSW	1.325E-09	1.020E-09	7.816E-10	6.399E-10	3.372E-10	1.796E-10	1.103E-10	7.448E-11	5.370E-11	4.058E-11	3.178E-11
W	8.007E-10	1.460E-09	1.063E-09	6.529E-10	2.871E-10	1.539E-10	9.469E-11	6.404E-11	4.619E-11	3.490E-11	2.733E-11
WNW	4.233E-09	3.216E-09	3.199E-09	2.081E-09	1.066E-09	5.456E-10	3.269E-10	2.171E-10	1.607E-10	1.212E-10	9.559E-11
NW	2.731E-09	2.519E-09	2.583E-09	4.230E-09	2.672E-09	1.333E-09	7.875E-10	5.211E-10	3.747E-10	2.876E-10	2.327E-10
NNW	1.358E-09	1.215E-09	1.196E-09	9.201E-10	8.524E-10	4.627E-10	2.912E-10	2.387E-10	1.778E-10	1.417E-10	1.196E-10
N	4.286E-09	3.533E-09	3.071E-09	2.160E-09	1.072E-09	6.624E-10	4.497E-10	3.237E-10	2.427E-10	1.876E-10	1.485E-10
NNE	5.818E-09	4.408E-09	3.266E-09	1.979E-09	8.542E-10	4.957E-10	3.250E-10	2.296E-10	1.705E-10	1.313E-10	1.039E-10
NE	2.916E-09	2.245E-09	1.719E-09	1.079E-09	4.830E-10	2.853E-10	1.890E-10	1.343E-10	9.998E-11	7.707E-11	6.101E-11
ENE	2.759E-10	2.690E-10	2.946E-10	2.413E-10	1.334E-10	8.592E-11	5.955E-11	4.333E-11	3.266E-11	2.530E-11	2.003E-11
E	3.923E-11	2.354E-10	5.012E-10	5.191E-10	3.243E-10	2.174E-10	1.536E-10	1.128E-10	8.544E-11	6.632E-11	5.252E-11
ESE	5.586E-10	5.786E-10	6.756E-10	5.721E-10	3.226E-10	2.093E-10	1.456E-10	1.061E-10	8.005E-11	6.203E-11	4.912E-11
SE	4.327E-09	3.776E-09	3.590E-09	2.697E-09	1.407E-09	8.873E-10	6.085E-10	4.404E-10	3.310E-10	2.562E-10	2.028E-10
SSE	1.257E-08	1.023E-08	8.712E-09	6.025E-09	2.947E-09	1.811E-09	1.226E-09	8.810E-10	6.600E-10	6.100E-10	5.504E-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	2.271E-10	1.304E-10	8.457E-11	4.730E-11	3.028E-11	2.336E-11	1.674E-11	1.256E-11	9.819E-12	7.812E-12	6.377E-12
SSW	1.158E-10	6.297E-11	3.982E-11	2.157E-11	1.575E-11	1.101E-11	7.892E-12	5.930E-12	4.761E-12	3.803E-12	3.104E-12
SW	6.719E-11	3.617E-11	2.284E-11	1.238E-11	7.816E-12	6.057E-12	4.635E-12	3.543E-12	2.755E-12	2.201E-12	1.796E-12
WSW	2.559E-11	2.478E-11	1.821E-11	1.095E-11	6.628E-12	4.444E-12	3.225E-12	2.422E-12	1.883E-12	1.504E-12	1.228E-12
W	2.199E-11	9.930E-12	1.028E-11	8.048E-12	4.923E-12	3.355E-12	2.404E-12	1.805E-12	1.404E-12	1.121E-12	9.151E-13
WNW	8.001E-11	4.091E-11	2.669E-11	1.507E-11	1.046E-11	7.211E-12	5.063E-12	3.812E-12	3.073E-12	2.455E-12	2.004E-12
NW	1.976E-10	1.127E-10	7.826E-11	4.850E-11	2.956E-11	1.984E-11	1.449E-11	1.088E-11	8.560E-12	6.838E-12	5.581E-12
NNW	1.059E-10	6.891E-11	5.089E-11	3.144E-11	2.019E-11	1.343E-11	9.121E-12	6.728E-12	5.096E-12	4.072E-12	3.324E-12
N	1.199E-10	5.714E-11	3.508E-11	1.875E-11	2.970E-11	1.996E-11	1.430E-11	1.074E-11	8.353E-12	6.674E-12	5.448E-12
NNE	8.408E-11	1.606E-10	1.002E-10	5.256E-11	3.224E-11	2.162E-11	1.547E-11	1.159E-11	8.989E-12	7.171E-12	5.847E-12
NE	4.933E-11	1.044E-10	6.569E-11	3.476E-11	2.135E-11	1.428E-11	1.010E-11	7.533E-12	5.945E-12	4.749E-12	3.876E-12
ENE	1.615E-11	3.039E-11	2.368E-11	1.519E-11	9.809E-12	6.489E-12	4.539E-12	2.718E-12	2.114E-12	1.690E-12	1.381E-12
E	4.230E-11	4.148E-11	2.915E-11	1.727E-11	1.093E-11	7.253E-12	5.110E-12	3.762E-12	2.880E-12	2.424E-12	1.976E-12
ESE	3.960E-11	5.244E-11	3.907E-11	2.427E-11	1.557E-11	1.033E-11	7.254E-12	5.319E-12	4.054E-12	3.185E-12	2.563E-12
SE	1.636E-10	7.785E-11	4.770E-11	2.541E-11	1.576E-11	1.101E-11	8.342E-12	1.640E-11	1.262E-11	1.001E-11	8.135E-12
SSE	4.563E-10	3.267E-10	1.998E-10	1.021E-10	6.203E-11	4.155E-11	2.973E-11	2.229E-11	1.731E-11	1.381E-11	1.126E-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	6.096E-09	2.085E-09	7.643E-10	4.038E-10	2.710E-10	1.315E-10	4.802E-11	2.256E-11	1.271E-11	7.875E-12
SSW	1.969E-09	8.770E-10	3.668E-10	2.232E-10	1.436E-10	6.442E-11	2.304E-11	1.103E-11	6.045E-12	3.828E-12
SW	1.361E-09	7.225E-10	2.948E-10	1.419E-10	8.374E-11	3.714E-11	1.267E-11	5.957E-12	3.555E-12	2.215E-12
WSW	7.716E-10	3.344E-10	1.144E-10	5.464E-11	3.209E-11	2.204E-11	1.064E-11	4.539E-12	2.446E-12	1.514E-12
W	9.690E-10	3.092E-10	9.821E-11	4.699E-11	2.760E-11	1.277E-11	7.156E-12	3.393E-12	1.823E-12	1.129E-12
WNW	2.706E-09	1.060E-09	3.413E-10	1.618E-10	9.741E-11	4.328E-11	1.560E-11	7.218E-12	3.888E-12	2.471E-12
NW	3.301E-09	2.423E-09	8.263E-10	3.833E-10	2.360E-10	1.163E-10	4.670E-11	2.029E-11	1.103E-11	6.882E-12
NNW	1.078E-09	6.942E-10	3.159E-10	1.815E-10	1.211E-10	6.912E-11	3.076E-11	1.351E-11	6.790E-12	4.098E-12
N	2.769E-09	1.132E-09	4.560E-10	2.448E-10	1.495E-10	6.128E-11	2.724E-11	2.029E-11	1.085E-11	6.718E-12
NNE	2.948E-09	9.449E-10	3.324E-10	1.724E-10	1.047E-10	1.168E-10	5.413E-11	2.199E-11	1.170E-11	7.220E-12
NE	1.552E-09	5.276E-10	1.928E-10	1.010E-10	6.144E-11	7.495E-11	3.567E-11	1.449E-11	7.663E-12	4.780E-12
ENE	2.652E-10	1.363E-10	6.009E-11	3.290E-11	2.016E-11	2.425E-11	1.469E-11	6.594E-12	3.008E-12	1.701E-12
E	4.501E-10	3.201E-10	1.543E-10	8.598E-11	5.282E-11	3.618E-11	1.709E-11	7.377E-12	3.811E-12	2.393E-12
ESE	6.080E-10	3.277E-10	1.468E-10	8.063E-11	4.942E-11	4.364E-11	2.369E-11	1.049E-11	5.390E-12	3.212E-12
SE	3.235E-09	1.463E-09	6.156E-10	3.338E-10	2.041E-10	8.352E-11	2.607E-11	1.121E-11	1.266E-11	1.009E-11
SSE	7.856E-09	3.126E-09	1.244E-09	7.041E-10	5.332E-10	2.991E-10	1.060E-10	4.229E-11	2.252E-11	1.391E-11

ERP ELEVATED STACK RELEASES - JAN-MAR 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	1.300E-07	1.298E-07	1.272E-07	6.153E-09
A	SITE BOUNDARY	SSW	0.82	1327.	4.828E-08	4.821E-08	4.744E-08	2.020E-09
A	SITE BOUNDARY	SW	0.98	1569.	8.074E-08	8.059E-08	7.977E-08	1.100E-09
A	SITE BOUNDARY	WSW	0.93	1489.	4.344E-08	4.336E-08	4.282E-08	5.710E-10
A	SITE BOUNDARY	W	0.91	1468.	6.554E-08	6.540E-08	6.440E-08	7.433E-10
A	SITE BOUNDARY	WNW	0.94	1509.	1.752E-07	1.747E-07	1.720E-07	2.378E-09
A	SITE BOUNDARY	NW	0.81	1307.	1.574E-07	1.572E-07	1.561E-07	2.466E-09
A	SITE BOUNDARY	NNW	0.69	1106.	2.604E-08	2.601E-08	2.571E-08	1.187E-09
A	SITE BOUNDARY	N	0.67	1086.	4.433E-08	4.430E-08	4.359E-08	3.160E-09
A	SITE BOUNDARY	NNE	0.60	965.	6.934E-08	6.928E-08	6.828E-08	3.874E-09
A	SITE BOUNDARY	NE	0.62	1005.	3.842E-08	3.837E-08	3.779E-08	1.942E-09
A	SITE BOUNDARY	ENE	0.59	945.	2.786E-09	2.784E-09	2.754E-09	2.739E-10
A	SITE BOUNDARY	E	0.53	845.	6.643E-10	6.638E-10	6.642E-10	2.609E-10
A	SITE BOUNDARY	ESE	0.54	865.	1.617E-08	1.614E-08	1.599E-08	5.881E-10
A	SITE BOUNDARY	SE	0.65	1046.	5.538E-08	5.535E-08	5.454E-08	3.605E-09
A	SITE BOUNDARY	SSE	0.81	1307.	1.385E-07	1.384E-07	1.359E-07	7.970E-09
A	NEAR. RESIDENCE	SW	1.30	2092.	9.494E-08	9.467E-08	9.357E-08	1.144E-09
A	NEAR. RESIDENCE	WSW	1.30	2092.	7.543E-08	7.516E-08	7.457E-08	4.576E-10
A	NEAR. RESIDENCE	W	1.00	1609.	6.536E-08	6.521E-08	6.416E-08	6.529E-10
A	NEAR. RESIDENCE	WNW	1.60	2575.	1.538E-07	1.529E-07	1.499E-07	9.170E-10
A	NEAR. RESIDENCE	NW	0.90	1448.	2.042E-07	2.039E-07	2.028E-07	4.540E-09
A	NEAR. RESIDENCE	NNW	1.90	3058.	9.572E-08	9.528E-08	9.422E-08	5.170E-10
A	NEAR. RESIDENCE	N	3.00	4828.	2.492E-08	2.480E-08	2.401E-08	3.237E-10
A	NEAR. RESIDENCE	NNE	2.70	4345.	2.926E-08	2.911E-08	2.824E-08	2.809E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	1.011E-08	1.008E-08	9.964E-09	1.098E-10
A	NEAR. RESIDENCE	E	1.80	2897.	1.785E-08	1.779E-08	1.758E-08	2.533E-10
A	NEAR. RESIDENCE	ESE	2.40	3863.	2.014E-08	2.000E-08	1.953E-08	1.558E-10
A	NEAREST COW	NNW	3.50	5633.	7.650E-08	7.580E-08	7.482E-08	1.778E-10
A	NEAREST GARDEN	SW	1.30	2092.	9.494E-08	9.467E-08	9.357E-08	1.144E-09
A	NEAREST GARDEN	WSW	1.80	2897.	6.729E-08	6.692E-08	6.629E-08	2.258E-10
A	NEAREST GARDEN	WNW	1.60	2575.	1.538E-07	1.529E-07	1.499E-07	9.170E-10
A	NEAREST GARDEN	NW	2.80	4506.	1.174E-07	1.167E-07	1.128E-07	6.079E-10
A	NEAREST GARDEN	NNW	1.90	3058.	9.572E-08	9.528E-08	9.422E-08	5.170E-10
A	NEAREST GARDEN	N	3.00	4828.	2.492E-08	2.480E-08	2.401E-08	3.237E-10
A	NEAREST GARDEN	ENE	1.70	2736.	1.011E-08	1.008E-08	9.964E-09	1.098E-10
A	NEAREST GARDEN	E	1.80	2897.	1.785E-08	1.779E-08	1.758E-08	2.533E-10
A	NEAREST GARDEN	ESE	2.40	3863.	2.014E-08	2.000E-08	1.953E-08	1.558E-10

Atmospheric Diffusion Estimates

Elevated Releases

April-June 1995

ERP ELEVATED STACK RELEASES - APR-JUN 1995
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.590E-17	6.400E-11	1.291E-09	2.712E-09	3.629E-09	3.324E-09	2.815E-09	2.356E-09	1.984E-09	2.217E-09	2.368E-09
SSW	3.374E-11	3.803E-09	7.950E-09	8.405E-09	7.837E-09	6.745E-09	5.720E-09	6.698E-09	7.711E-09	7.190E-09	6.801E-09
SW	2.823E-09	1.639E-08	2.388E-08	2.792E-08	3.032E-08	1.931E-08	1.336E-08	9.834E-09	7.579E-09	6.050E-09	4.964E-09
WSW	6.982E-11	6.260E-09	1.716E-08	2.201E-08	2.091E-08	1.209E-08	7.985E-09	5.763E-09	4.422E-09	3.546E-09	2.939E-09
W	3.579E-08	4.384E-08	6.369E-08	5.945E-08	4.729E-08	2.987E-08	2.090E-08	1.562E-08	1.224E-08	9.922E-09	8.260E-09
WNW	7.176E-09	2.323E-08	6.024E-08	7.291E-08	5.816E-08	3.234E-08	2.057E-08	1.452E-08	1.083E-08	8.327E-09	6.629E-09
NW	2.276E-08	3.394E-08	6.206E-08	8.738E-08	1.124E-07	6.331E-08	4.076E-08	2.898E-08	2.179E-08	1.693E-08	1.361E-08
NNW	6.753E-09	3.307E-08	4.401E-08	4.158E-08	3.751E-08	2.967E-08	2.304E-08	1.776E-08	1.392E-08	1.070E-08	8.526E-09
N	3.904E-09	2.352E-08	2.623E-08	1.751E-08	9.154E-09	6.074E-09	4.558E-09	3.587E-09	2.939E-09	2.475E-09	2.127E-09
NNE	4.577E-09	6.888E-09	9.717E-09	8.486E-09	6.534E-09	5.155E-09	4.168E-09	3.451E-09	2.918E-09	2.513E-09	2.198E-09
NE	1.118E-09	2.999E-09	2.495E-09	2.072E-09	1.808E-09	1.543E-09	1.295E-09	1.092E-09	9.294E-10	8.010E-10	6.988E-10
ENE	4.687E-17	3.257E-11	6.499E-10	1.523E-09	2.322E-09	2.243E-09	1.943E-09	1.641E-09	1.385E-09	1.179E-09	1.014E-09
E	7.915E-17	6.228E-11	9.353E-10	1.720E-09	1.998E-09	1.685E-09	1.349E-09	1.082E-09	8.817E-10	7.311E-10	6.164E-10
ESE	9.766E-11	6.021E-09	1.064E-08	9.952E-09	7.580E-09	5.586E-09	4.197E-09	3.248E-09	2.585E-09	2.108E-09	1.756E-09
SE	7.504E-17	6.743E-11	1.048E-09	2.049E-09	2.736E-09	2.580E-09	2.246E-09	1.923E-09	1.650E-09	1.428E-09	1.247E-09
SSE	5.448E-17	6.253E-11	1.162E-09	2.532E-09	3.995E-09	4.215E-09	3.959E-09	3.577E-09	3.198E-09	5.348E-09	6.450E-09

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

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.137E-09	1.758E-09	1.175E-09	6.991E-10	5.246E-10	4.162E-10	3.280E-10	2.685E-10	2.302E-10	2.004E-10	1.749E-10
SSW	6.872E-09	7.879E-09	5.285E-09	3.165E-09	2.403E-09	1.860E-09	1.469E-09	1.204E-09	1.015E-09	8.735E-10	7.638E-10
SW	4.355E-09	2.655E-09	1.685E-09	9.360E-10	6.295E-10	4.617E-10	3.587E-10	2.877E-10	2.378E-10	2.011E-10	1.732E-10
WSW	2.678E-09	2.352E-09	1.998E-09	1.481E-09	1.026E-09	7.738E-10	6.167E-10	5.079E-10	4.297E-10	3.710E-10	3.255E-10
W	7.027E-09	3.943E-09	2.873E-09	1.876E-09	1.369E-09	1.018E-09	7.955E-10	6.467E-10	5.409E-10	4.623E-10	4.019E-10
WNW	5.439E-09	2.673E-09	1.664E-09	8.982E-10	5.837E-10	4.183E-10	3.189E-10	2.537E-10	2.081E-10	1.749E-10	1.497E-10
NW	1.129E-08	5.799E-09	3.727E-09	2.099E-09	1.395E-09	1.018E-09	7.901E-10	6.370E-10	5.287E-10	4.488E-10	3.878E-10
NNW	7.030E-09	3.529E-09	2.212E-09	1.214E-09	8.024E-10	5.831E-10	4.502E-10	3.621E-10	3.003E-10	2.544E-10	2.194E-10
N	1.863E-09	1.151E-09	9.177E-10	6.507E-10	4.812E-10	3.673E-10	2.876E-10	2.339E-10	1.955E-10	1.670E-10	1.451E-10
NNE	2.467E-09	3.135E-09	2.016E-09	1.146E-09	7.734E-10	5.711E-10	4.464E-10	3.627E-10	3.033E-10	2.591E-10	2.251E-10
NE	7.449E-10	6.589E-10	4.186E-10	2.332E-10	1.544E-10	1.124E-10	8.698E-11	7.004E-11	5.805E-11	4.917E-11	4.249E-11
ENE	9.795E-10	6.800E-10	4.239E-10	2.284E-10	1.472E-10	1.047E-10	7.944E-11	6.287E-11	5.124E-11	4.278E-11	3.641E-11
E	5.782E-10	3.687E-10	2.283E-10	1.222E-10	7.852E-11	5.573E-11	4.213E-11	3.326E-11	2.714E-11	2.267E-11	1.929E-11
ESE	1.602E-09	9.819E-10	6.054E-10	3.242E-10	2.108E-10	1.511E-10	1.153E-10	9.176E-11	7.533E-11	6.334E-11	5.425E-11
SE	1.101E-09	6.808E-10	5.182E-10	3.465E-10	2.418E-10	1.816E-10	1.431E-10	1.167E-10	9.676E-11	8.204E-11	7.080E-11
SSE	5.454E-09	2.935E-09	1.875E-09	1.053E-09	7.012E-10	5.123E-10	3.968E-10	3.199E-10	2.656E-10	2.255E-10	1.948E-10

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

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	1.650E-09	3.290E-09	2.767E-09	2.179E-09	2.238E-09	1.5[illegible]E-09	7.272E-10	4.098E-10	2.709E-10	1.998E-10
SSW	7.231E-09	7.478E-09	6.385E-09	7.223E-09	6.943E-09	6.50[illegible]E-09	3.297E-09	1.848E-09	1.208E-09	8.749E-10
SW	2.401E-08	2.489E-08	1.354E-08	7.641E-09	5.060E-09	2.602E-09	9.662E-10	4.652E-10	2.889E-10	2.016E-10
WSW	1.689E-08	1.723E-08	8.190E-09	4.472E-09	3.022E-09	2.267E-09	1.393E-09	7.782E-10	5.092E-10	3.715E-10
W	5.739E-08	4.225E-08	2.118E-08	1.232E-08	8.296E-09	4.153E-09	1.872E-09	1.022E-09	6.489E-10	4.632E-10
WNW	5.765E-08	4.996E-08	2.129E-08	1.093E-08	6.691E-09	2.839E-09	9.285E-10	4.227E-10	2.550E-10	1.754E-10
NW	6.706E-08	8.501E-08	4.206E-08	2.199E-08	1.374E-08	6.098E-09	2.148E-09	1.027E-09	6.395E-10	4.499E-10
NNW	4.050E-08	3.493E-08	2.270E-08	1.379E-08	8.617E-09	3.722E-09	1.253E-09	5.884E-10	3.637E-10	2.550E-10
N	2.175E-08	9.642E-09	4.574E-09	2.948E-09	2.133E-09	1.206E-09	6.347E-10	3.658E-10	2.346E-10	1.673E-10
NNE	8.541E-09	6.355E-09	4.144E-09	2.916E-09	2.391E-09	2.490E-09	1.174E-09	5.752E-10	3.640E-10	2.596E-10
NE	2.419E-09	1.749E-09	1.280E-09	9.268E-10	7.461E-10	5.712E-10	2.394E-10	1.134E-10	7.031E-11	4.930E-11
ENE	9.007E-10	2.109E-09	1.902E-09	1.380E-09	1.050E-09	6.327E-10	2.358E-10	1.059E-10	6.317E-11	4.293E-11
E	1.090E-09	1.797E-09	1.332E-09	8.816E-10	6.362E-10	3.529E-10	1.264E-10	5.637E-11	3.346E-11	2.274E-11
ESE	9.307E-09	7.221E-09	4.188E-09	2.593E-09	1.803E-09	9.523E-10	3.363E-10	1.527E-10	9.222E-11	6.353E-11
SE	1.275E-09	2.514E-09	2.206E-09	1.643E-09	1.247E-09	7.019E-10	3.381E-10	1.822E-10	1.166E-10	8.224E-11
SSE	1.527E-09	3.768E-09	3.874E-09	4.125E-09	5.755E-09	3.024E-09	1.079E-09	5.165E-10	3.212E-10	2.260E-10

ERP ELEVATED STACK RELEASES - APR-JUN 1995
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.589E-17	6.394E-11	1.289E-09	2.706E-09	3.617E-09	3.310E-09	2.800E-09	2.340E-09	1.969E-09	2.198E-09	2.344E-09
SSW	3.372E-11	3.799E-09	7.937E-09	8.389E-09	7.815E-09	6.720E-09	5.694E-09	6.659E-09	7.653E-09	7.125E-09	6.729E-09
SW	2.822E-09	1.638E-08	2.385E-08	2.786E-08	3.019E-08	1.919E-08	1.325E-08	9.739E-09	7.493E-09	5.970E-09	4.891E-09
WSW	6.979E-11	6.254E-09	1.714E-08	2.197E-08	2.085E-08	1.204E-08	7.941E-09	5.723E-09	4.385E-09	3.510E-09	2.904E-09
W	3.578E-08	4.381E-08	6.361E-08	5.934E-08	4.713E-08	2.971E-08	2.075E-08	1.548E-08	1.210E-08	9.793E-09	8.136E-09
WNW	7.175E-09	2.322E-08	6.019E-08	7.282E-08	5.805E-08	3.225E-08	2.050E-08	1.447E-08	1.078E-08	8.285E-09	6.591E-09
NW	2.275E-08	3.392E-08	6.200E-08	8.727E-08	1.122E-07	6.317E-08	4.065E-08	2.888E-08	2.171E-08	1.686E-08	1.354E-08
NNW	6.751E-09	3.305E-08	4.397E-08	4.153E-08	3.744E-08	2.959E-08	2.297E-08	1.769E-08	1.386E-08	1.065E-08	8.478E-09
N	3.903E-09	2.351E-08	2.621E-08	1.749E-08	9.138E-09	6.056E-09	4.538E-09	3.566E-09	2.917E-09	2.453E-09	2.105E-09
NNE	4.576E-09	6.885E-09	9.710E-09	8.478E-09	6.524E-09	5.144E-09	4.157E-09	3.440E-09	2.907E-09	2.502E-09	2.188E-09
NE	1.117E-09	2.998E-09	2.494E-09	2.070E-09	1.805E-09	1.538E-09	1.291E-09	1.086E-09	9.243E-10	7.958E-10	6.936E-10
ENE	4.686E-17	3.255E-11	6.486E-10	1.518E-09	2.308E-09	2.225E-09	1.922E-09	1.619E-09	1.364E-09	1.158E-09	9.934E-10
E	7.914E-17	6.225E-11	9.346E-10	1.719E-09	1.995E-09	1.682E-09	1.345E-09	1.079E-09	8.785E-10	7.280E-10	6.135E-10
ESE	9.764E-11	6.018E-09	1.063E-08	9.942E-09	7.568E-09	5.575E-09	4.187E-09	3.238E-09	2.576E-09	2.100E-09	1.748E-09
SE	7.502E-17	6.739E-11	1.047E-09	2.047E-09	2.732E-09	2.575E-09	2.241E-09	1.917E-09	1.645E-09	1.423E-09	1.243E-09
SSE	5.447E-17	6.248E-11	1.161E-09	2.528E-09	3.983E-09	4.199E-09	3.939E-09	3.556E-09	3.175E-09	5.305E-09	6.391E-09

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

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.113E-09	1.729E-09	1.148E-09	6.757E-10	5.012E-10	3.930E-10	3.062E-10	2.478E-10	2.101E-10	1.808E-10	1.559E-10
SSW	6.787E-09	7.718E-09	5.140E-09	3.036E-09	2.273E-09	1.735E-09	1.351E-09	1.093E-09	9.087E-10	7.711E-10	6.652E-10
SW	4.284E-09	2.591E-09	1.631E-09	8.918E-10	5.908E-10	4.268E-10	3.267E-10	2.582E-10	2.103E-10	1.754E-10	1.489E-10
WSW	2.639E-09	2.281E-09	1.910E-09	1.377E-09	9.306E-10	6.845E-10	5.318E-10	4.270E-10	3.522E-10	2.965E-10	2.536E-10
W	6.908E-09	3.837E-09	2.764E-09	1.764E-09	1.257E-09	9.143E-10	6.993E-10	5.562E-10	4.551E-10	3.805E-10	3.237E-10
WNW	5.404E-09	2.648E-09	1.642E-09	8.812E-10	5.691E-10	4.053E-10	3.071E-10	2.427E-10	1.979E-10	1.653E-10	1.406E-10
NW	1.123E-08	5.751E-09	3.685E-09	2.064E-09	1.364E-09	9.901E-10	7.642E-10	6.127E-10	5.057E-10	4.269E-10	3.669E-10
NNW	6.987E-09	3.497E-09	2.185E-09	1.192E-09	7.830E-10	5.656E-10	4.341E-10	3.470E-10	2.861E-10	2.410E-10	2.066E-10
N	1.840E-09	1.127E-09	8.909E-10	6.208E-10	4.516E-10	3.392E-10	2.615E-10	2.095E-10	1.725E-10	1.452E-10	1.243E-10
NNE	2.453E-09	3.110E-09	1.995E-09	1.128E-09	7.569E-10	5.560E-10	4.322E-10	3.494E-10	2.905E-10	2.469E-10	2.134E-10
NE	7.384E-10	6.496E-10	4.107E-10	2.266E-10	1.486E-10	1.071E-10	8.209E-11	6.545E-11	5.373E-11	4.507E-11	3.848E-11
ENE	9.574E-10	6.567E-10	4.047E-10	2.131E-10	1.342E-10	9.324E-11	6.916E-11	5.350E-11	4.262E-11	3.480E-11	2.896E-11
E	5.752E-10	3.658E-10	2.259E-10	1.203E-10	7.687E-11	5.428E-11	4.081E-11	3.205E-11	2.601E-11	2.162E-11	1.830E-11
ESE	1.594E-09	9.746E-10	5.994E-10	3.193E-10	2.066E-10	1.474E-10	1.119E-10	8.861E-11	7.239E-11	6.056E-11	5.161E-11
SE	1.096E-09	6.765E-10	5.140E-10	3.425E-10	2.381E-10	1.781E-10	1.399E-10	1.136E-10	9.388E-11	7.931E-11	6.819E-11
SSE	5.399E-09	2.890E-09	1.837E-09	1.021E-09	6.730E-10	4.867E-10	3.731E-10	2.978E-10	2.447E-10	2.056E-10	1.758E-10

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						
S	1.647E-09	3.278E-09	2.752E-09	2.162E-09	2.215E-09	1.556E-09	7.032E-10	3.872E-10	2.501E-10	1.803E-10
SSW	7.218E-09	7.456E-09	6.354E-09	7.168E-09	6.868E-09	6.365E-09	3.164E-09	1.725E-09	1.097E-09	7.726E-10
SW	2.397E-08	2.478E-08	1.343E-08	7.555E-09	4.986E-09	2.541E-09	9.223E-10	4.305E-10	2.596E-10	1.759E-10
WSW	1.687E-08	1.718E-08	8.146E-09	4.434E-09	2.986E-09	2.195E-09	1.297E-09	6.890E-10	4.284E-10	2.971E-10
W	5.731E-08	4.210E-08	2.103E-08	1.219E-08	8.172E-09	4.043E-09	1.761E-09	9.198E-10	5.585E-10	3.816E-10
WNW	5.759E-08	4.987E-08	2.122E-08	1.088E-08	6.653E-09	2.813E-09	9.116E-10	4.097E-10	2.440E-10	1.658E-10
NW	6.699E-08	8.486E-08	4.195E-08	2.191E-08	1.367E-08	6.050E-09	2.113E-09	9.995E-10	6.152E-10	4.280E-10
NNW	4.046E-08	3.486E-08	2.262E-08	1.373E-08	8.569E-09	3.689E-09	1.231E-09	5.710E-10	3.487E-10	2.416E-10
N	2.174E-08	9.625E-09	4.554E-09	2.926E-09	2.110E-09	1.181E-09	6.056E-10	3.381E-10	2.103E-10	1.456E-10
NNE	8.534E-09	6.345E-09	4.133E-09	2.905E-09	2.379E-09	2.468E-09	1.156E-09	5.601E-10	3.506E-10	2.474E-10
NE	2.417E-09	1.745E-09	1.275E-09	9.217E-10	7.405E-10	5.632E-10	2.328E-10	1.082E-10	6.574E-11	4.519E-11
ENE	8.979E-10	2.095E-09	1.882E-09	1.358E-09	1.029E-09	6.115E-10	2.206E-10	9.452E-11	5.383E-11	3.495E-11
E	1.089E-09	1.794E-09	1.328E-09	8.784E-10	6.332E-10	3.501E-10	1.245E-10	5.492E-11	3.226E-11	2.169E-11
ESE	9.299E-09	7.210E-09	4.178E-09	2.584E-09	1.795E-09	9.454E-10	3.315E-10	1.490E-10	8.908E-11	6.075E-11
SE	1.274E-09	2.510E-09	2.201E-09	1.638E-09	1.242E-09	6.975E-10	3.342E-10	1.788E-10	1.136E-10	7.951E-11
SSE	1.524E-09	3.756E-09	3.855E-09	4.095E-09	5.702E-09	2.980E-09	1.048E-09	4.910E-10	2.991E-10	2.062E-10

ERP ELEVATED STACK RELEASES - APR-JUN 1995
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.589E-17	6.399E-11	1.291E-09	2.711E-09	3.593E-09	3.261E-09	2.738E-09	2.273E-09	1.900E-09	2.116E-09	2.256E-09
SSW	3.373E-11	3.769E-09	7.803E-09	8.248E-09	7.673E-09	6.579E-09	5.557E-09	6.514E-09	7.514E-09	7.000E-09	6.619E-09
SW	2.823E-09	1.624E-08	2.344E-08	2.751E-08	2.972E-08	1.871E-08	1.281E-08	9.340E-09	7.135E-09	5.649E-09	4.600E-09
WSW	6.981E-11	6.203E-09	1.686E-08	2.167E-08	2.039E-08	1.162E-08	7.591E-09	5.428E-09	4.133E-09	3.293E-09	2.715E-09
W	3.579E-08	4.302E-08	6.260E-08	5.814E-08	4.588E-08	2.876E-08	2.001E-08	1.489E-08	1.162E-08	9.388E-09	7.792E-09
WNW	7.176E-09	2.304E-08	5.956E-08	7.172E-08	5.635E-08	3.080E-08	1.930E-08	1.346E-08	9.924E-09	7.548E-09	5.949E-09
NW	2.275E-08	3.364E-08	6.101E-08	8.609E-08	1.105E-07	6.173E-08	3.948E-08	2.791E-08	2.090E-08	1.615E-08	1.290E-08
NNW	6.753E-09	3.277E-08	4.313E-08	4.075E-08	3.669E-08	2.882E-08	2.225E-08	1.704E-08	1.327E-08	1.013E-08	8.009E-09
N	3.904E-09	2.330E-08	2.560E-08	1.691E-08	8.742E-09	5.782E-09	4.338E-09	3.414E-09	2.796E-09	2.355E-09	2.023E-09
NNE	4.577E-09	6.826E-09	9.518E-09	8.287E-09	6.361E-09	5.002E-09	4.029E-09	3.325E-09	2.803E-09	2.408E-09	2.101E-09
NE	1.117E-09	2.972E-09	2.449E-09	2.037E-09	1.777E-09	1.509E-09	1.261E-09	1.057E-09	8.963E-10	7.693E-10	6.687E-10
ENE	4.687E-17	3.256E-11	6.495E-10	1.521E-09	2.296E-09	2.195E-09	1.881E-09	1.571E-09	1.313E-09	1.107E-09	9.437E-10
E	7.915E-17	6.227E-11	9.351E-10	1.720E-09	1.979E-09	1.652E-09	1.308E-09	1.039E-09	8.389E-10	6.894E-10	5.763E-10
ESE	9.766E-11	5.967E-09	1.043E-08	9.743E-09	7.385E-09	5.403E-09	4.026E-09	3.089E-09	2.438E-09	1.972E-09	1.629E-09
SE	7.503E-17	6.742E-11	1.048E-09	2.048E-09	2.714E-09	2.542E-09	2.201E-09	1.875E-09	1.602E-09	1.381E-09	1.202E-09
SSE	5.448E-17	6.252E-11	1.162E-09	2.531E-09	3.964E-09	4.162E-09	3.894E-09	3.507E-09	3.127E-09	5.249E-09	6.333E-09

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

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	2.030E-09	1.654E-09	1.070E-09	5.963E-10	4.154E-10	3.085E-10	2.294E-10	1.781E-10	1.467E-10	1.236E-10	1.047E-10
SSW	6.695E-09	7.601E-09	4.919E-09	2.731E-09	1.905E-09	1.411E-09	1.073E-09	8.501E-10	6.942E-10	5.798E-10	4.930E-10
SW	4.013E-09	2.384E-09	1.467E-09	7.692E-10	4.894E-10	3.417E-10	2.555E-10	1.977E-10	1.580E-10	1.295E-10	1.083E-10
WSW	2.474E-09	2.177E-09	1.805E-09	1.273E-09	8.392E-10	6.063E-10	4.648E-10	3.694E-10	3.023E-10	2.530E-10	2.155E-10
W	6.610E-09	3.663E-09	2.655E-09	1.637E-09	1.115E-09	7.943E-10	5.975E-10	4.690E-10	3.796E-10	3.147E-10	2.657E-10
WNW	4.835E-09	2.284E-09	1.377E-09	7.054E-10	4.383E-10	3.016E-10	2.215E-10	1.701E-10	1.352E-10	1.103E-10	9.183E-11
NW	1.064E-08	5.286E-09	3.286E-09	1.740E-09	1.099E-09	7.685E-10	5.749E-10	4.486E-10	3.614E-10	2.984E-10	2.512E-10
NNW	6.557E-09	3.180E-09	1.929E-09	9.958E-10	6.177E-10	4.254E-10	3.135E-10	2.428E-10	1.959E-10	1.603E-10	1.344E-10
N	1.772E-09	1.090E-09	8.696E-10	6.128E-10	4.416E-10	3.176E-10	2.394E-10	1.885E-10	1.529E-10	1.269E-10	1.074E-10
NNE	2.369E-09	3.015E-09	1.873E-09	1.008E-09	6.501E-10	4.622E-10	3.493E-10	2.755E-10	2.240E-10	1.865E-10	1.582E-10
NE	7.129E-10	6.233E-10	3.816E-10	1.979E-10	1.214E-10	8.279E-11	6.090E-11	4.735E-11	3.800E-11	3.123E-11	2.618E-11
ENE	9.038E-10	6.022E-10	3.632E-10	1.855E-10	1.145E-10	7.843E-11	5.758E-11	4.416E-11	3.495E-11	2.839E-11	2.354E-11
E	5.362E-10	3.288E-10	1.975E-10	1.007E-10	6.228E-11	4.281E-11	3.146E-11	2.422E-11	1.931E-11	1.577E-11	1.309E-11
ESE	1.475E-09	8.723E-10	5.219E-10	2.662E-10	1.663E-10	1.152E-10	8.523E-11	6.594E-11	5.272E-11	4.322E-11	3.615E-11
SE	1.057E-09	6.462E-10	4.888E-10	3.238E-10	2.240E-10	1.670E-10	1.309E-10	1.049E-10	8.437E-11	6.955E-11	5.846E-11
SSE	5.325E-09	2.771E-09	1.708E-09	8.923E-10	5.490E-10	3.754E-10	2.743E-10	2.100E-10	1.662E-10	1.350E-10	1.119E-10

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									
S	1.649E-09	3.249E-09	2.691E-09	2.089E-09	2.131E-09	1.478E-09	6.212E-10	3.054E-10	1.808E-10	1.234E-10
SSW	7.104E-09	7.314E-09	6.212E-09	7.032E-09	6.760E-09	6.207E-09	2.850E-09	1.408E-09	8.544E-10	5.815E-10
SW	2.365E-08	2.433E-08	1.299E-08	7.199E-09	4.694E-09	2.338E-09	7.998E-10	3.466E-10	1.991E-10	1.301E-10
WSW	1.663E-08	1.678E-08	7.801E-09	4.183E-09	2.797E-09	2.078E-09	1.198E-09	6.118E-10	3.711E-10	2.537E-10
W	5.627E-08	4.100E-08	2.030E-08	1.170E-08	7.827E-09	3.870E-09	1.631E-09	8.012E-10	4.717E-10	3.158E-10
WNW	5.685E-08	4.841E-08	2.003E-08	1.003E-08	6.010E-09	2.448E-09	7.359E-10	3.060E-10	1.715E-10	1.108E-10
NW	6.607E-08	8.339E-08	4.079E-08	2.109E-08	1.303E-08	5.587E-09	1.799E-09	7.793E-10	4.515E-10	2.996E-10
NNW	3.977E-08	3.410E-08	2.192E-08	1.315E-08	8.099E-09	3.374E-09	1.035E-09	4.319E-10	2.448E-10	1.610E-10
N	2.123E-08	9.242E-09	4.353E-09	2.804E-09	2.028E-09	1.144E-09	5.938E-10	3.194E-10	1.895E-10	1.274E-10
NNE	8.373E-09	6.185E-09	4.007E-09	2.802E-09	2.291E-09	2.364E-09	1.041E-09	4.672E-10	2.770E-10	1.872E-10
NE	2.382E-09	1.716E-09	1.246E-09	8.939E-10	7.149E-10	5.358E-10	2.047E-10	8.433E-11	4.766E-11	3.137E-11
ENE	8.999E-10	2.079E-09	1.841E-09	1.309E-09	9.773E-10	5.630E-10	1.934E-10	7.971E-11	4.448E-11	2.854E-11
E	1.090E-09	1.776E-09	1.292E-09	8.393E-10	5.949E-10	3.165E-10	1.051E-10	4.346E-11	2.442E-11	1.583E-11
ESE	9.134E-09	7.028E-09	4.018E-09	2.446E-09	1.674E-09	8.505E-10	2.786E-10	1.169E-10	6.641E-11	4.342E-11
SE	1.275E-09	2.490E-09	2.161E-09	1.595E-09	1.201E-09	6.676E-10	3.161E-10	1.678E-10	1.045E-10	6.983E-11
SSE	1.526E-09	3.734E-09	3.811E-09	4.044E-09	5.639E-09	2.866E-09	9.210E-10	3.813E-10	2.117E-10	1.357E-10

ERP ELEVATED STACK RELEASES - APR-JUN 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	5.581E-12	3.348E-11	7.130E-11	7.385E-11	4.613E-11	3.093E-11	2.185E-11	1.605E-11	1.215E-11	9.991E-12	9.125E-12
SSW	2.804E-10	2.523E-10	2.503E-10	1.935E-10	1.029E-10	6.541E-11	4.503E-11	3.265E-11	3.049E-11	2.304E-11	1.803E-11
SW	1.098E-09	8.670E-10	6.983E-10	4.601E-10	3.245E-10	1.763E-10	1.097E-10	7.477E-11	5.421E-11	4.109E-11	3.222E-11
WSW	5.482E-10	4.293E-10	3.403E-10	2.820E-10	1.620E-10	8.655E-11	5.318E-11	3.595E-11	2.592E-11	1.959E-11	1.534E-11
W	1.639E-09	2.454E-09	1.636E-09	9.134E-10	3.887E-10	2.068E-10	1.269E-10	8.569E-11	6.177E-11	4.668E-11	3.656E-11
WNW	1.656E-09	1.355E-09	2.376E-09	1.499E-09	8.559E-10	4.275E-10	2.513E-10	1.638E-10	1.159E-10	8.516E-11	6.530E-11
NW	3.550E-09	2.711E-09	2.042E-09	1.960E-09	1.061E-09	5.282E-10	3.129E-10	2.078E-10	1.501E-10	1.157E-10	9.399E-11
NNW	3.003E-09	2.290E-09	1.720E-09	1.058E-09	6.986E-10	3.713E-10	2.278E-10	1.725E-10	1.224E-10	9.215E-11	7.271E-11
N	2.710E-09	1.962E-09	1.309E-09	6.979E-10	2.568E-10	1.361E-10	8.436E-11	5.768E-11	4.209E-11	3.216E-11	2.545E-11
NNE	1.092E-09	8.335E-10	6.270E-10	3.863E-10	1.696E-10	9.928E-11	6.542E-11	4.634E-11	3.446E-11	2.654E-11	2.101E-11
NE	2.734E-10	2.105E-10	1.612E-10	1.012E-10	4.529E-11	2.675E-11	1.772E-11	1.259E-11	9.374E-12	7.226E-12	5.729E-12
ENE	4.186E-12	2.511E-11	5.347E-11	5.539E-11	3.459E-11	2.320E-11	1.638E-11	1.204E-11	9.116E-12	7.075E-12	5.603E-12
E	5.581E-12	3.348E-11	7.130E-11	7.385E-11	4.613E-11	3.093E-11	2.185E-11	1.605E-11	1.215E-11	9.434E-12	7.471E-12
ESE	8.258E-10	6.649E-10	5.549E-10	3.774E-10	1.820E-10	1.112E-10	7.501E-11	5.381E-11	4.028E-11	3.111E-11	2.463E-11
SE	5.581E-12	3.348E-11	7.130E-11	7.385E-11	4.613E-11	3.093E-11	2.185E-11	1.605E-11	1.215E-11	9.434E-12	7.471E-12
SSE	5.581E-12	3.348E-11	7.130E-11	7.385E-11	4.613E-11	3.093E-11	2.185E-11	1.605E-11	1.215E-11	1.166E-11	1.520E-11

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	7.335E-12	4.992E-12	3.369E-12	1.928E-12	1.210E-12	8.618E-13	6.096E-13	4.510E-13	3.834E-13	3.063E-13	2.500E-13
SSW	1.450E-11	1.676E-11	1.260E-11	7.883E-12	4.415E-12	3.016E-12	2.161E-12	1.623E-12	1.262E-12	1.008E-12	8.226E-13
SW	2.6[illegible]0E-11	1.291E-11	7.846E-12	4.108E-12	2.604E-12	2.241E-12	1.598E-12	1.265E-12	9.936E-13	7.857E-13	6.413E-13
WSW	1.235E-11	6.448E-12	4.043E-12	2.803E-12	1.697E-12	1.138E-12	8.151E-13	6.120E-13	4.759E-13	3.801E-13	3.103E-13
W	2.944E-11	1.336E-11	8.709E-12	5.679E-12	4.283E-12	2.872E-12	2.058E-12	1.545E-12	1.201E-12	9.597E-13	7.833E-13
WNW	5.220E-11	2.345E-11	1.403E-11	7.199E-12	5.777E-12	4.067E-12	3.036E-12	2.280E-12	1.773E-12	1.416E-12	1.156E-12
NW	7.985E-11	4.559E-11	3.174E-11	2.004E-11	1.220E-11	8.205E-12	5.867E-12	4.405E-12	3.425E-12	2.736E-12	2.233E-12
NNW	5.987E-11	3.049E-11	1.990E-11	1.121E-11	7.207E-12	4.970E-12	3.913E-12	2.880E-12	2.300E-12	1.838E-12	1.500E-12
N	2.068E-11	1.003E-11	6.279E-12	3.516E-12	4.279E-12	2.813E-12	1.958E-12	1.470E-12	1.143E-12	9.130E-13	7.452E-13
NNE	1.700E-11	2.481E-11	1.503E-11	7.595E-12	4.597E-12	3.082E-12	2.208E-12	1.658E-12	1.289E-12	1.030E-12	8.407E-13
NE	4.626E-12	4.203E-12	2.763E-12	1.526E-12	9.474E-13	6.310E-13	4.041E-13	3.034E-13	2.359E-13	1.885E-13	1.538E-13
ENE	4.513E-12	2.473E-12	1.434E-12	6.996E-13	4.205E-13	2.833E-13	2.052E-13	2.199E-13	1.716E-13	1.376E-13	1.128E-13
E	6.017E-12	3.295E-12	1.910E-12	9.322E-13	5.603E-13	3.775E-13	2.734E-13	2.081E-13	1.643E-13	2.165E-13	1.767E-13
ESE	1.989E-11	1.063E-11	6.267E-12	3.167E-12	1.977E-12	1.375E-12	1.023E-12	7.977E-13	6.386E-13	5.268E-13	4.422E-13
SE	6.017E-12	2.849E-12	1.736E-12	9.131E-13	5.592E-13	3.928E-13	3.062E-13	1.335E-12	1.010E-12	7.875E-13	6.293E-13
SSE	1.393E-11	1.173E-11	8.116E-12	4.717E-12	2.969E-12	1.971E-12	1.389E-12	1.023E-12	7.824E-13	6.161E-13	4.966E-13

********** 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	6.403E-11	4.553E-11	2.195E-11	1.244E-11	8.718E-12	4.791[illegible]12	1.929E-12	8.538E-13	4.706E-13	3.083E-13
SSW	2.255E-10	1.064E-10	4.551E-11	2.827E-11	1.821E-11	1.441E-11	7.389E-12	3.047E-12	1.639E-12	1.014E-12
SW	6.299E-10	2.888E-10	1.135E-10	5.508E-11	3.276E-11	1.370E-11	4.270E-12	2.080E-12	1.253E-12	7.909E-13
WSW	3.341E-10	1.551E-10	5.519E-11	2.637E-11	1.549E-11	6.690E-12	2.587E-12	1.158E-12	6.182E-13	3.826E-13
W	1.497E-09	4.245E-10	1.317E-10	6.286E-11	3.692E-11	1.487E-11	5.732E-12	2.923E-12	1.561E-12	9.660E-13
WNW	1.759E-09	8.084E-10	2.633E-10	1.179E-10	6.633E-11	2.565E-11	8.084E-12	4.111E-12	2.303E-12	1.425E-12
NW	2.154E-09	1.024E-09	3.283E-10	1.535E-10	9.520E-11	4.705E-11	1.916E-11	8.335E-12	4.449E-12	2.754E-12
NNW	1.552E-09	6.329E-10	2.440E-10	1.252E-10	7.371E-11	3.231E-11	1.136E-11	5.144E-12	2.954E-12	1.850E-12
N	1.183E-09	3.012E-10	8.748E-11	4.276E-11	2.567E-11	1.073E-11	4.469E-12	2.862E-12	1.485E-12	9.190E-13
NNE	5.659E-10	1.865E-10	6.682E-11	3.484E-11	2.116E-11	1.872E-11	7.914E-12	3.136E-12	1.675E-12	1.037E-12
NE	1.455E-10	4.947E-11	1.808E-11	9.474E-12	5.761E-12	3.657E-12	1.544E-12	6.246E-13	3.065E-13	1.897E-13
ENE	4.802E-11	3.415E-11	1.646E-11	9.173E-12	5.636E-12	2.464E-12	7.387E-13	2.886E-13	1.973E-13	1.385E-13
E	6.403E-11	4.553E-11	2.195E-11	1.223E-11	7.514E-12	3.285E-12	9.843E-13	3.846E-13	2.101E-13	1.863E-13
ESE	5.005E-10	1.939E-10	7.618E-11	4.065E-11	2.480E-11	1.075E-11	3.327E-12	1.395E-12	8.015E-13	5.286E-13
SE	6.403E-11	4.553E-11	2.195E-11	1.223E-11	7.514E-12	3.058E-12	9.387E-13	4.025E-13	9.170E-13	7.947E-13
SSE	6.403E-11	4.553E-11	2.195E-11	1.308E-11	1.368E-11	1.061E-11	4.696E-12	2.005E-12	1.036E-12	6.211E-13

ERP ELEVATED STACK RELEASES - APR-JUN 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	1.620E-09	1.617E-09	1.614E-09	7.471E-11
A	SITE BOUNDARY	SSW	0.82	1327.	8.216E-09	8.202E-09	8.059E-09	2.349E-10
A	SITE BOUNDARY	SW	0.98	1569.	2.749E-08	2.744E-08	2.708E-08	4.818E-10
A	SITE BOUNDARY	WSW	0.93	1489.	2.094E-08	2.090E-08	2.060E-08	2.556E-10
A	SITE BOUNDARY	W	0.91	1468.	6.165E-08	6.156E-08	6.042E-08	1.103E-09
A	SITE BOUNDARY	WNW	0.94	1509.	7.176E-08	7.168E-08	7.070E-08	1.694E-09
A	SITE BOUNDARY	NW	0.81	1307.	6.759E-08	6.753E-08	6.650E-08	1.805E-09
A	SITE BOUNDARY	NNW	0.69	1106.	4.174E-08	4.170E-08	4.097E-08	1.832E-09
A	SITE BOUNDARY	N	0.67	1086.	2.667E-08	2.665E-08	2.613E-08	1.474E-09
A	SITE BOUNDARY	NNE	0.60	965.	8.344E-09	8.340E-09	8.221E-09	7.364E-10
A	SITE BOUNDARY	NE	0.62	1005.	2.654E-09	2.653E-09	2.613E-09	1.821E-10
A	SITE BOUNDARY	ENE	0.59	945.	1.400E-10	1.399E-10	1.400E-10	3.479E-11
A	SITE BOUNDARY	E	0.53	845.	9.895E-11	9.890E-11	9.894E-11	3.712E-11
A	SITE BOUNDARY	ESE	0.54	865.	6.961E-09	6.957E-09	6.883E-09	6.421E-10
A	SITE BOUNDARY	SE	0.65	1046.	5.172E-10	5.169E-10	5.171E-10	5.598E-11
A	SITE BOUNDARY	SSE	0.81	1307.	1.531E-09	1.529E-09	1.530E-09	7.537E-11
A	NEAR. RESIDENCE	SW	1.30	2092.	3.088E-08	3.077E-08	3.037E-08	4.359E-10
A	NEAR. RESIDENCE	WSW	1.30	2092.	2.273E-08	2.267E-08	2.227E-08	2.192E-10
A	NEAR. RESIDENCE	W	1.00	1609.	5.945E-08	5.934E-08	5.814E-08	9.134E-10
A	NEAR. RESIDENCE	WNW	1.60	2575.	5.101E-08	5.090E-08	4.924E-08	7.322E-10
A	NEAR. RESIDENCE	NW	0.90	1448.	7.623E-08	7.615E-08	7.508E-08	2.393E-09
A	NEAR. RESIDENCE	NNW	1.90	3058.	3.117E-08	3.110E-08	3.032E-08	4.161E-10
A	NEAR. RESIDENCE	N	3.00	4828.	3.587E-09	3.566E-09	3.414E-09	5.768E-11
A	NEAR. RESIDENCE	NNE	2.70	4345.	3.855E-09	3.843E-09	3.721E-09	5.660E-11
A	NEAR. RESIDENCE	ENE	1.70	2736.	2.346E-09	2.330E-09	2.310E-09	2.927E-11
A	NEAR. RESIDENCE	E	1.80	2897.	1.827E-09	1.824E-09	1.798E-09	3.604E-11
A	NEAR. RESIDENCE	ESE	2.40	3863.	4.434E-09	4.423E-09	4.260E-09	8.067E-11
A	NEAREST COW	NNW	3.50	5633.	1.392E-08	1.386E-08	1.327E-08	1.224E-10
A	NEAREST GARDEN	SW	1.30	2092.	3.088E-08	3.077E-08	3.037E-08	4.359E-10
A	NEAREST GARDEN	WSW	1.80	2897.	1.476E-08	1.471E-08	1.427E-08	1.087E-10
A	NEAREST GARDEN	WNW	1.60	2575.	5.101E-08	5.090E-08	4.924E-08	7.322E-10
A	NEAREST GARDEN	NW	2.80	4506.	3.296E-08	3.286E-08	3.182E-08	2.421E-10
A	NEAREST GARDEN	NNW	1.90	3058.	3.117E-08	3.110E-08	3.032E-08	4.161E-10
A	NEAREST GARDEN	N	3.00	4828.	3.587E-09	3.566E-09	3.414E-09	5.768E-11
A	NEAREST GARDEN	ENE	1.70	2736.	2.346E-09	2.330E-09	2.310E-09	2.927E-11
A	NEAREST GARDEN	E	1.80	2897.	1.827E-09	1.824E-09	1.798E-09	3.604E-11
A	NEAREST GARDEN	ESE	2.40	3863.	4.434E-09	4.423E-09	4.260E-09	8.067E-11

Atmospheric Diffusion Estimates

Elevated Releases

January-June 1995

ERP ELEVATED STACK RELEASES - JAN-JUN 1995
NO DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.300E-08	6.175E-08	7.050E-08	5.980E-08	4.614E-08	3.571E-08	2.806E-08	2.253E-08	1.851E-08	2.004E-08	2.100E-08
SSW	1.658E-08	2.475E-08	2.917E-08	2.958E-08	2.838E-08	2.401E-08	1.972E-08	2.049E-08	2.046E-08	1.781E-08	1.579E-08
SW	6.835E-09	3.083E-08	4.500E-08	5.677E-08	6.399E-08	4.073E-08	2.823E-08	2.084E-08	1.611E-08	1.290E-08	1.061E-08
WSW	2.087E-09	1.365E-08	2.627E-08	3.654E-08	5.594E-08	3.582E-08	2.518E-08	1.891E-08	1.490E-08	1.216E-08	1.020E-08
W	2.164E-08	4.057E-08	6.434E-08	6.371E-08	5.388E-08	3.467E-08	2.469E-08	1.878E-08	1.496E-08	1.232E-08	1.040E-08
WNW	1.218E-08	6.533E-08	1.159E-07	1.286E-07	1.184E-07	6.989E-08	4.651E-08	3.493E-08	2.766E-08	2.187E-08	1.784E-08
NW	1.485E-08	3.814E-08	9.624E-08	1.762E-07	2.471E-07	1.433E-07	9.431E-08	6.864E-08	5.271E-08	4.144E-08	3.364E-08
NNW	8.043E-09	2.270E-08	3.963E-08	5.189E-08	6.741E-08	6.411E-08	5.779E-08	5.128E-08	4.662E-08	3.687E-08	3.009E-08
N	5.869E-09	3.049E-08	3.801E-08	3.320E-08	2.676E-08	2.198E-08	1.804E-08	1.471E-08	1.222E-08	1.034E-08	8.882E-09
NNE	6.838E-09	3.423E-08	4.430E-08	3.673E-08	2.799E-08	2.245E-08	1.840E-08	1.538E-08	1.309E-08	1.133E-08	9.949E-09
NE	1.444E-09	1.560E-08	2.493E-08	2.330E-08	2.040E-08	1.749E-08	1.485E-08	1.266E-08	1.091E-08	9.521E-09	8.407E-09
ENE	1.546E-11	9.564E-10	3.125E-09	5.006E-09	6.447E-09	6.097E-09	5.341E-09	4.608E-09	3.990E-09	3.485E-09	3.077E-09
E	2.776E-16	2.442E-10	4.133E-09	8.233E-09	1.063E-08	9.611E-09	8.100E-09	6.776E-09	5.721E-09	4.896E-09	4.247E-09
ESE	1.422E-09	1.075E-08	1.778E-08	1.874E-08	1.756E-08	1.478E-08	1.218E-08	1.011E-08	8.521E-09	7.290E-09	6.330E-09
SE	6.034E-09	2.503E-08	3.285E-08	3.509E-08	3.467E-08	2.983E-08	2.481E-08	2.066E-08	1.741E-08	1.486E-08	1.286E-08
SSE	1.465E-08	5.674E-08	7.326E-08	6.984E-08	6.065E-08	4.950E-08	4.010E-08	3.289E-08	2.745E-08	3.691E-08	4.322E-08

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

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.861E-08	1.304E-08	8.533E-09	4.955E-09	3.576E-09	2.766E-09	2.168E-09	1.767E-09	1.502E-09	1.299E-09	1.130E-09
SSW	1.470E-08	1.212E-08	7.915E-09	4.575E-09	3.298E-09	2.492E-09	1.947E-09	1.582E-09	1.323E-09	1.131E-09	9.826E-10
SW	9.395E-09	5.938E-09	3.796E-09	2.129E-09	1.444E-09	1.066E-09	8.327E-10	6.696E-10	5.546E-10	4.700E-10	4.055E-10
WSW	9.302E-09	7.402E-09	5.908E-09	4.133E-09	2.845E-09	2.135E-09	1.694E-09	1.390E-09	1.173E-09	1.010E-09	8.838E-10
W	8.969E-09	5.310E-09	4.296E-09	3.349E-09	2.808E-09	2.138E-09	1.690E-09	1.388E-09	1.170E-09	1.008E-09	8.822E-10
WNW	1.512E-08	8.513E-09	5.835E-09	3.628E-09	2.534E-09	1.919E-09	1.538E-09	1.269E-09	1.067E-09	9.138E-10	7.956E-10
NW	2.828E-08	1.532E-08	1.024E-08	6.075E-09	4.073E-09	2.994E-09	2.367E-09	1.924E-09	1.604E-09	1.366E-09	1.184E-09
NNW	2.578E-08	1.491E-08	9.727E-09	5.627E-09	3.833E-09	2.851E-09	2.263E-09	1.863E-09	1.597E-09	1.379E-09	1.201E-09
N	7.750E-09	4.659E-09	3.597E-09	2.563E-09	2.002E-09	1.600E-09	1.251E-09	1.015E-09	8.452E-10	7.198E-10	6.238E-10
NNE	1.128E-08	1.924E-08	1.257E-08	7.306E-09	4.999E-09	3.732E-09	2.943E-09	2.410E-09	2.028E-09	1.742E-09	1.522E-09
NE	9.535E-09	1.341E-08	8.668E-09	4.959E-09	3.355E-09	2.483E-09	1.960E-09	1.602E-09	1.343E-09	1.148E-09	9.979E-10
ENE	3.362E-09	4.417E-09	2.884E-09	1.664E-09	1.129E-09	8.365E-10	6.693E-10	5.513E-10	4.604E-10	3.930E-10	3.412E-10
E	4.405E-09	5.232E-09	3.406E-09	1.958E-09	1.324E-09	9.793E-10	7.659E-10	6.227E-10	5.310E-10	4.600E-10	3.992E-10
ESE	6.478E-09	7.635E-09	5.048E-09	2.959E-09	2.030E-09	1.516E-09	1.195E-09	9.777E-10	8.219E-10	7.054E-10	6.154E-10
SE	1.127E-08	6.845E-09	5.185E-09	3.580E-09	2.580E-09	2.008E-09	1.644E-09	1.392E-09	1.165E-09	9.956E-10	8.655E-10
SSE	3.665E-08	2.014E-08	1.284E-08	7.206E-09	4.811E-09	3.524E-09	2.737E-09	2.212E-09	1.840E-09	1.566E-09	1.355E-09

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

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	6.380E-08	4.454E-08	2.789E-08	2.024E-08	1.983E-08	1.227E-08	5.137E-09	2.743E-09	1.781E-09	1.296E-09
SSW	2.837E-08	2.670E-08	2.117E-08	1.946E-08	1.599E-08	1.082E-08	4.750E-09	2.489E-09	1.588E-09	1.133E-09
SW	4.708E-08	5.205E-08	2.861E-08	1.623E-08	1.084E-08	5.754E-09	2.195E-09	1.074E-09	6.724E-10	4.712E-10
WSW	2.803E-08	4.269E-08	2.551E-08	1.500E-08	1.045E-08	7.160E-09	3.955E-09	2.148E-09	1.394E-09	1.011E-09
W	5.878E-08	4.753E-08	2.499E-08	1.504E-08	1.044E-08	5.672E-09	3.319E-09	2.137E-09	1.391E-09	1.010E-09
WNW	1.103E-07	9.912E-08	4.811E-08	2.753E-08	1.803E-08	8.791E-09	3.632E-09	1.931E-09	1.269E-09	9.155E-10
NW	1.189E-07	1.852E-07	9.712E-08	5.297E-08	3.397E-08	1.594E-08	6.111E-09	3.031E-09	1.929E-09	1.369E-09
NNW	4.132E-08	6.249E-08	5.687E-08	4.424E-08	3.050E-08	1.502E-08	5.741E-09	2.878E-09	1.876E-09	1.378E-09
N	3.420E-08	2.607E-08	1.776E-08	1.221E-08	8.894E-09	4.874E-09	2.543E-09	1.568E-09	1.018E-09	7.214E-10
NNE	3.870E-08	2.747E-08	1.827E-08	1.307E-08	1.085E-08	1.451E-08	7.451E-09	3.754E-09	2.417E-09	1.745E-09
NE	2.213E-08	1.975E-08	1.468E-08	1.008E-08	9.155E-09	1.044E-08	5.070E-09	2.507E-09	1.606E-09	1.150E-09
ENE	3.479E-09	5.971E-09	5.250E-09	3.974E-09	3.304E-09	3.501E-09	1.698E-09	8.477E-10	5.504E-10	3.938E-10
E	5.091E-09	9.644E-09	7.973E-09	5.708E-09	4.498E-09	4.237E-09	1.998E-09	9.860E-10	6.287E-10	4.585E-10
ESE	1.665E-08	1.659E-08	1.205E-08	8.507E-09	6.669E-09	6.228E-09	3.010E-09	1.525E-09	9.804E-10	7.066E-10
SE	3.211E-08	3.261E-08	2.449E-08	1.737E-08	1.286E-08	7.090E-09	3.492E-09	2.015E-09	1.377E-09	9.975E-10
SSE	6.807E-08	5.774E-08	3.973E-08	3.261E-08	3.892E-08	2.056E-08	7.394E-09	3.553E-09	2.220E-09	1.569E-09

ERP ELEVATED STACK RELEASES - JAN-JUN 1995
2.260 DAY DECAY, UNDEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.300E-08	6.172E-08	7.043E-08	5.972E-08	4.603E-08	3.560E-08	2.794E-08	2.242E-08	1.839E-08	1.990E-08	2.082E-08
SSW	1.657E-08	2.473E-08	2.913E-08	2.953E-08	2.828E-08	2.390E-08	1.960E-08	2.034E-08	2.027E-08	1.762E-08	1.560E-08
SW	6.833E-09	3.080E-08	4.494E-08	5.665E-08	6.376E-08	4.053E-08	2.805E-08	2.067E-08	1.596E-08	1.276E-08	1.048E-08
WSW	2.086E-09	1.364E-08	2.624E-08	3.646E-08	5.571E-08	3.561E-08	2.499E-08	1.873E-08	1.473E-08	1.199E-08	1.004E-08
W	2.164E-08	4.053E-08	6.425E-08	6.357E-08	5.368E-08	3.448E-08	2.451E-08	1.861E-08	1.479E-08	1.215E-08	1.024E-08
WNW	1.217E-08	6.526E-08	1.157E-07	1.283E-07	1.179E-07	6.947E-08	4.615E-08	3.459E-08	2.733E-08	2.157E-08	1.757E-08
NW	1.484E-08	3.811E-08	9.613E-08	1.759E-07	2.464E-07	1.428E-07	9.386E-08	6.825E-08	5.236E-08	4.112E-08	3.334E-08
NNW	8.041E-09	2.268E-08	3.959E-08	5.180E-08	6.720E-08	6.383E-08	5.746E-08	5.092E-08	4.623E-08	3.651E-08	2.977E-08
N	5.868E-09	3.047E-08	3.798E-08	3.316E-08	2.671E-08	2.192E-08	1.797E-08	1.463E-08	1.215E-08	1.027E-08	8.815E-09
NNE	6.837E-09	3.421E-08	4.425E-08	3.667E-08	2.792E-08	2.237E-08	1.832E-08	1.530E-08	1.301E-08	1.125E-08	9.870E-09
NE	1.444E-09	1.559E-08	2.489E-08	2.324E-08	2.032E-08	1.740E-08	1.475E-08	1.256E-08	1.081E-08	9.420E-09	8.308E-09
ENE	1.546E-11	9.560E-10	3.121E-09	4.996E-09	6.426E-09	6.070E-09	5.311E-09	4.577E-09	3.958E-09	3.454E-09	3.047E-09
E	2.776E-16	2.440E-10	4.128E-09	8.219E-09	1.060E-08	9.575E-09	8.062E-09	6.737E-09	5.683E-09	4.858E-09	4.211E-09
ESE	1.421E-09	1.074E-08	1.774E-08	1.869E-08	1.749E-08	1.470E-08	1.210E-08	1.004E-08	8.444E-09	7.215E-09	6.257E-09
SE	6.032E-09	2.502E-08	3.283E-08	3.505E-08	3.460E-08	2.974E-08	2.472E-08	2.057E-08	1.731E-08	1.477E-08	1.277E-08
SSE	1.464E-08	5.671E-08	7.321E-08	6.977E-08	6.055E-08	4.939E-08	3.998E-08	3.277E-08	2.733E-08	3.670E-08	4.292E-08

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

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.843E-08	1.282E-08	8.337E-09	4.780E-09	3.399E-09	2.591E-09	2.004E-09	1.611E-09	1.349E-09	1.150E-09	9.874E-10
SSW	1.449E-08	1.185E-08	7.678E-09	4.370E-09	3.104E-09	2.310E-09	1.778E-09	1.423E-09	1.173E-09	9.874E-10	8.456E-10
SW	9.266E-09	5.809E-09	3.686E-09	2.036E-09	1.361E-09	9.894E-10	7.613E-10	6.031E-10	4.923E-10	4.111E-10	3.496E-10
WSW	9.137E-09	7.171E-09	5.649E-09	3.850E-09	2.588E-09	1.895E-09	1.467E-09	1.175E-09	9.677E-10	8.132E-10	6.947E-10
W	8.814E-09	5.164E-09	4.128E-09	3.140E-09	2.567E-09	1.909E-09	1.475E-09	1.184E-09	9.757E-10	8.212E-10	7.025E-10
WNW	1.486E-08	8.282E-09	5.618E-09	3.420E-09	2.340E-09	1.735E-09	1.361E-09	1.100E-09	9.063E-10	7.600E-10	6.482E-10
NW	2.800E-08	1.509E-08	1.003E-08	5.890E-09	3.909E-09	2.844E-09	2.226E-09	1.791E-09	1.478E-09	1.246E-09	1.069E-09
NNW	2.547E-08	1.463E-08	9.482E-09	5.414E-09	3.641E-09	2.674E-09	2.095E-09	1.702E-09	1.439E-09	1.227E-09	1.055E-09
N	7.685E-09	4.600E-09	3.537E-09	2.499E-09	1.935E-09	1.532E-09	1.189E-09	9.557E-10	7.895E-10	6.669E-10	5.732E-10
NNE	1.118E-08	1.897E-08	1.234E-08	7.102E-09	4.813E-09	3.560E-09	2.781E-09	2.255E-09	1.880E-09	1.600E-09	1.385E-09
NE	9.413E-09	1.318E-08	8.472E-09	4.794E-09	3.209E-09	2.349E-09	1.835E-09	1.484E-09	1.231E-09	1.041E-09	8.958E-10
ENE	3.325E-09	4.341E-09	2.818E-09	1.608E-09	1.078E-09	7.901E-10	6.251E-10	5.091E-10	4.206E-10	3.551E-10	3.050E-10
E	4.363E-09	5.161E-09	3.344E-09	1.905E-09	1.277E-09	9.359E-10	7.255E-10	5.845E-10	4.940E-10	4.241E-10	3.648E-10
ESE	6.396E-09	7.514E-09	4.943E-09	2.869E-09	1.949E-09	1.442E-09	1.126E-09	9.124E-10	7.599E-10	6.462E-10	5.586E-10
SE	1.118E-08	6.768E-09	5.108E-09	3.500E-09	2.502E-09	1.931E-09	1.566E-09	1.312E-09	1.089E-09	9.226E-10	7.951E-10
SSE	3.636E-08	1.989E-08	1.263E-08	7.026E-09	4.650E-09	3.377E-09	2.600E-09	2.083E-09	1.718E-09	1.449E-09	1.244E-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									
S	6.373E-08	4.443E-08	2.777E-08	2.012E-08	1.967E-08	1.207E-08	4.957E-09	2.572E-09	1.624E-09	1.149E-09
SSW	2.833E-08	2.661E-08	2.104E-08	1.928E-08	1.579E-08	1.058E-08	4.543E-09	2.309E-09	1.429E-09	9.898E-10
SW	4.700E-08	5.185E-08	2.843E-08	1.608E-08	1.071E-08	5.634E-09	2.103E-09	9.972E-10	6.061E-10	4.124E-10
WSW	2.798E-08	4.250E-08	2.532E-08	1.483E-08	1.028E-08	6.931E-09	3.689E-09	1.909E-09	1.180E-09	8.151E-10
W	5.868E-08	4.735E-08	2.481E-08	1.487E-08	1.028E-08	5.515E-09	3.105E-09	1.911E-09	1.188E-09	8.230E-10
WNW	1.101E-07	9.869E-08	4.774E-08	2.721E-08	1.775E-08	8.559E-09	3.428E-09	1.747E-09	1.101E-09	7.620E-10
NW	1.187E-07	1.847E-07	9.667E-08	5.262E-08	3.367E-08	1.571E-08	5.931E-09	2.881E-09	1.796E-09	1.249E-09
NNW	4.126E-08	6.228E-08	5.654E-08	4.387E-08	3.017E-08	1.475E-08	5.530E-09	2.700E-09	1.714E-09	1.226E-09
N	3.417E-08	2.601E-08	1.769E-08	1.214E-08	8.827E-09	4.813E-09	2.479E-09	1.502E-09	9.589E-10	6.685E-10
NNE	3.865E-08	2.740E-08	1.819E-08	1.299E-08	1.076E-08	1.429E-08	7.249E-09	3.582E-09	2.262E-09	1.603E-09
NE	2.209E-08	1.967E-08	1.458E-08	1.078E-08	9.047E-09	1.025E-08	4.907E-09	2.373E-09	1.488E-09	1.044E-09
ENE	3.473E-09	5.950E-09	5.220E-09	3.943E-09	3.271E-09	3.439E-09	1.642E-09	8.010E-10	5.085E-10	3.559E-10
E	5.083E-09	9.616E-09	7.936E-09	5.670E-09	4.459E-09	4.176E-09	1.946E-09	9.428E-10	5.903E-10	4.228E-10
ESE	1.661E-08	1.652E-08	1.197E-08	8.431E-09	6.592E-09	6.123E-09	2.921E-09	1.451E-09	9.153E-10	6.475E-10
SE	3.208E-08	3.254E-08	2.440E-08	1.728E-08	1.278E-08	7.011E-09	3.414E-09	1.937E-09	1.300E-09	9.246E-10
SSE	6.802E-08	5.764E-08	3.961E-08	3.245E-08	3.865E-08	2.032E-08	7.215E-09	3.406E-09	2.092E-09	1.453E-09

ERP ELEVATED STACK RELEASES - JAN-JUN 1995
8.000 DAY DECAY, DEPLETED
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

SECTOR	0.250	0.500	0.750	1.000	1.500	2.000	2.500	3.000	3.500	4.000	4.500
S	3.300E-08	6.119E-08	6.907E-08	5.847E-08	4.496E-08	3.461E-08	2.701E-08	2.155E-08	1.759E-08	1.903E-08	1.994E-08
SSW	1.658E-08	2.453E-08	2.865E-08	2.912E-08	2.785E-08	2.340E-08	1.906E-08	1.970E-08	1.959E-08	1.697E-08	1.498E-08
SW	6.835E-09	3.054E-08	4.424E-08	5.607E-08	6.279E-08	3.950E-08	2.710E-08	1.982E-08	1.520E-08	1.208E-08	9.874E-09
WSW	2.086E-09	1.353E-08	2.581E-08	3.605E-08	5.515E-08	2.509E-08	2.455E-08	1.837E-08	1.442E-08	1.174E-08	9.818E-09
W	2.164E-08	3.982E-08	6.328E-08	6.243E-08	5.243E-08	3.351E-08	2.375E-08	1.799E-08	1.428E-08	1.173E-08	9.889E-09
WNW	1.218E-08	6.474E-08	1.140E-07	1.263E-07	1.154E-07	6.736E-08	4.442E-08	3.315E-08	2.612E-08	2.053E-08	1.665E-08
NW	1.485E-08	3.779E-08	9.506E-08	1.745E-07	2.429E-07	1.395E-07	9.103E-08	6.585E-08	5.031E-08	3.931E-08	3.172E-08
NNW	8.042E-09	2.249E-08	3.899E-08	5.125E-08	6.647E-08	6.287E-08	5.648E-08	5.001E-08	4.542E-08	3.575E-08	2.903E-08
N	5.869E-09	3.021E-08	3.725E-08	3.249E-08	2.613E-08	2.138E-08	1.745E-08	1.415E-08	1.170E-08	9.851E-09	8.428E-09
NNE	6.838E-09	3.392E-08	4.335E-08	3.580E-08	2.722E-08	2.177E-08	1.779E-08	1.482E-08	1.258E-08	1.085E-08	9.507E-09
NE	1.444E-09	1.546E-08	2.440E-08	2.275E-08	1.989E-08	1.700E-08	1.438E-08	1.222E-08	1.049E-08	9.125E-09	8.035E-09
ENE	1.546E-11	9.486E-10	3.095E-09	4.974E-09	6.371E-09	5.984E-09	5.207E-09	4.467E-09	3.848E-09	3.346E-09	2.943E-09
E	2.776E-16	2.441E-10	4.131E-09	8.229E-09	1.053E-08	9.429E-09	7.878E-09	6.539E-09	5.482E-09	4.660E-09	4.019E-09
ESE	1.422E-09	1.065E-08	1.745E-08	1.841E-08	1.719E-08	1.438E-08	1.178E-08	9.715E-09	8.136E-09	6.924E-09	5.982E-09
SE	6.033E-09	2.481E-08	3.234E-08	3.464E-08	3.413E-08	2.918E-08	2.411E-08	1.996E-08	1.672E-08	1.420E-08	1.223E-08
SSE	1.465E-08	5.623E-08	7.195E-08	6.863E-08	5.946E-08	4.826E-08	3.887E-08	3.169E-08	2.630E-08	3.549E-08	4.167E-08

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

BEARING	5.000	7.500	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000
S	1.762E-08	1.216E-08	7.707E-09	4.195E-09	2.818E-09	2.046E-09	1.522E-09	1.182E-09	9.633E-10	8.059E-10	6.804E-10
SSW	1.392E-08	1.136E-08	7.171E-09	3.876E-09	2.601E-09	1.882E-09	1.416E-09	1.111E-09	9.001E-10	7.462E-10	6.304E-10
SW	8.702E-09	5.385E-09	3.334E-09	1.761E-09	1.124E-09	7.863E-10	5.899E-10	4.575E-10	3.665E-10	3.010E-10	2.521E-10
WSW	8.954E-09	7.023E-09	5.424E-09	3.592E-09	2.354E-09	1.692E-09	1.291E-09	1.023E-09	8.352E-10	6.973E-10	5.927E-10
W	8.509E-09	4.996E-09	4.038E-09	2.971E-09	2.323E-09	1.695E-09	1.290E-09	1.023E-09	8.352E-10	6.977E-10	5.933E-10
WNW	1.403E-08	7.662E-09	5.089E-09	2.962E-09	1.916E-09	1.357E-09	1.033E-09	8.198E-10	6.651E-10	5.502E-10	4.637E-10
NW	2.650E-08	1.391E-08	9.003E-09	5.018E-09	3.175E-09	2.221E-09	1.687E-09	1.325E-09	1.070E-09	8.853E-10	7.464E-10
NNW	2.473E-08	1.386E-08	8.729E-09	4.694E-09	2.943E-09	2.040E-09	1.523E-09	1.188E-09	9.774E-10	8.165E-10	6.890E-10
N	7.324E-09	4.332E-09	3.319E-09	2.347E-09	1.792E-09	1.370E-09	1.039E-09	8.188E-10	6.645E-10	5.524E-10	4.679E-10
NNE	1.082E-08	1.858E-08	1.173E-08	6.403E-09	4.124E-09	2.925E-09	2.205E-09	1.736E-09	1.406E-09	1.167E-09	9.874E-10
NE	9.144E-09	1.288E-08	8.044E-09	4.325E-09	2.756E-09	1.939E-09	1.469E-09	1.162E-09	9.452E-10	7.854E-10	6.649E-10
ENE	3.219E-09	4.237E-09	2.674E-09	1.439E-09	9.010E-10	6.240E-10	4.705E-10	3.703E-10	2.984E-10	2.463E-10	2.072E-10
E	4.163E-09	4.960E-09	3.125E-09	1.683E-09	1.058E-09	7.353E-10	5.445E-10	4.214E-10	3.432E-10	2.852E-10	2.391E-10
ESE	6.119E-09	7.266E-09	4.651E-09	2.552E-09	1.624E-09	1.138E-09	8.480E-10	6.592E-10	5.287E-10	4.344E-10	3.638E-10
SE	1.067E-08	6.371E-09	4.781E-09	3.265E-09	2.329E-09	1.800E-09	1.466E-09	1.230E-09	1.002E-09	8.359E-10	7.101E-10
SSE	3.512E-08	1.868E-08	1.149E-08	6.051E-09	3.803E-09	2.646E-09	1.963E-09	1.523E-09	1.220E-09	1.003E-09	8.400E-10

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

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	6.260E-08	4.336E-08	2.685E-08	1.927E-08	1.881E-08	1.139E-08	4.363E-09	2.042E-09	1.196E-09	8.060E-10
SSW	2.794E-08	2.615E-08	2.047E-08	1.863E-08	1.518E-08	1.006E-08	4.041E-09	1.887E-09	1.118E-09	7.489E-10
SW	4.645E-08	5.094E-08	2.749E-08	1.533E-08	1.009E-08	5.211E-09	1.827E-09	7.977E-10	4.606E-10	3.023E-10
WSW	2.763E-08	4.199E-08	2.489E-08	1.452E-08	1.007E-08	6.742E-09	3.449E-09	1.708E-09	1.028E-09	6.994E-10
W	5.769E-08	4.624E-08	2.405E-08	1.437E-08	9.925E-09	5.351E-09	2.920E-09	1.700E-09	1.028E-09	6.998E-10
WNW	1.085E-07	9.648E-08	4.603E-08	2.600E-08	1.683E-08	7.933E-09	2.969E-09	1.376E-09	8.219E-10	5.522E-10
NW	1.176E-07	1.817E-07	9.388E-08	5.056E-08	3.204E-08	1.453E-08	5.084E-09	2.262E-09	1.332E-09	8.886E-10
NNW	4.077E-08	6.148E-08	5.559E-08	4.305E-08	2.943E-08	1.400E-08	4.812E-09	2.074E-09	1.203E-09	8.170E-10
N	3.357E-08	2.543E-08	1.718E-08	1.170E-08	8.441E-09	4.547E-09	2.316E-09	1.350E-09	8.229E-10	5.543E-10
NNE	3.790E-08	2.670E-08	1.766E-08	1.256E-08	1.039E-08	1.381E-08	6.574E-09	2.957E-09	1.744E-09	1.172E-09
NE	2.168E-08	1.924E-08	1.421E-08	1.046E-08	8.769E-09	9.900E-09	4.454E-09	1.969E-09	1.167E-09	7.881E-10
ENE	3.453E-09	5.888E-09	5.118E-09	3.834E-09	3.165E-09	3.316E-09	1.474E-09	6.365E-10	3.715E-10	2.473E-10
E	5.089E-09	9.528E-09	7.756E-09	5.471E-09	4.262E-09	3.968E-09	1.726E-09	7.451E-10	4.268E-10	2.853E-10
ESE	1.636E-08	1.621E-08	1.165E-08	8.125E-09	6.312E-09	5.849E-09	2.606E-09	1.152E-09	6.634E-10	4.362E-10
SE	3.169E-06	3.204E-08	2.380E-08	1.669E-08	1.224E-08	6.619E-09	3.186E-09	1.808E-09	1.210E-09	8.385E-10
SSE	6.698E-08	5.652E-08	3.850E-08	3.134E-08	3.741E-08	1.914E-08	6.261E-09	2.681E-09	1.533E-09	1.007E-09

ERP ELEVATED STACK RELEASES - JAN-JUN 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION

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

DIRECTION FROM SITE	DISTANCES IN MILES 0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	3.50	4.00	4.50
S	5.908E-09	4.570E-09	3.535E-09	2.240E-09	1.013E-09	6.010E-10	3.991E-10	2.839E-10	2.116E-10	1.674E-10	1.507E-10
SSW	1.539E-09	1.335E-09	1.258E-09	9.390E-10	4.876E-10	3.070E-10	2.103E-10	1.521E-10	1.389E-10	1.051E-10	8.236E-11
SW	1.660E-09	1.344E-09	1.133E-09	7.766E-10	6.041E-10	3.268E-10	2.025E-10	1.376E-10	9.950E-11	7.532E-11	5.901E-11
WSW	9.618E-10	7.440E-10	5.757E-10	4.730E-10	2.560E-10	1.365E-10	8.381E-11	5.663E-11	4.083E-11	3.086E-11	2.416E-11
W	1.238E-09	1.989E-09	1.372E-09	7.968E-10	3.439E-10	1.835E-10	1.128E-10	7.620E-11	5.494E-11	4.152E-11	3.251E-11
WNW	3.024E-09	2.346E-09	2.850E-09	1.830E-09	9.818E-10	4.972E-10	2.955E-10	1.947E-10	1.415E-10	1.055E-10	8.230E-11
NW	3.197E-09	2.666E-09	2.363E-09	3.175E-09	1.917E-09	9.554E-10	5.650E-10	3.742E-10	2.694E-10	2.071E-10	1.677E-10
NNW	2.211E-09	1.779E-09	1.483E-09	1.008E-09	7.923E-10	4.261E-10	2.652E-10	2.103E-10	1.536E-10	1.197E-10	9.847E-11
N	3.581E-09	2.815E-09	2.248E-09	1.469E-09	6.839E-10	4.114E-10	2.753E-10	1.966E-10	1.468E-10	1.133E-10	8.969E-11
NNE	3.562E-09	2.702E-09	2.007E-09	1.219E-09	5.276E-10	3.066E-10	2.012E-10	1.422E-10	1.056E-10	8.132E-11	6.437E-11
NE	1.648E-09	1.268E-09	9.715E-10	6.097E-10	2.729E-10	1.612E-10	1.068E-10	7.586E-11	5.649E-11	4.354E-11	3.447E-11
ENE	1.450E-10	1.519E-10	1.794E-10	1.528E-10	8.644E-11	5.615E-11	3.907E-11	2.848E-11	2.149E-11	1.666E-11	1.319E-11
E	2.312E-11	1.387E-10	2.954E-10	3.059E-10	1.911E-10	1.281E-10	9.051E-11	6.649E-11	5.036E-11	3.908E-11	3.095E-11
ESE	7.040E-10	6.335E-10	6.286E-10	4.858E-10	2.585E-10	1.642E-10	1.131E-10	8.198E-11	6.169E-11	4.775E-11	3.781E-11
SE	2.244E-09	1.973E-09	1.895E-09	1.434E-09	7.519E-10	4.751E-10	3.261E-10	2.361E-10	1.776E-10	1.374E-10	1.088E-10
SSE	6.511E-09	5.316E-09	4.548E-09	3.158E-09	1.550E-09	9.537E-10	6.459E-10	4.643E-10	3.479E-10	3.218E-10	2.927E-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	1.213E-10	7.002E-11	4.549E-11	2.546E-11	1.629E-11	1.253E-11	8.975E-12	6.732E-12	5.278E-12	4.200E-12	3.429E-12
SSW	6.726E-11	4.103E-11	2.695E-11	1.513E-11	1.038E-11	7.216E-12	5.173E-12	3.886E-12	3.099E-12	2.476E-12	2.021E-12
SW	4.816E-11	2.522E-11	1.577E-11	8.474E-12	5.356E-12	4.262E-12	3.203E-12	2.471E-12	1.921E-12	1.534E-12	1.252E-12
WSW	1.945E-11	1.607E-11	1.146E-11	7.080E-12	4.285E-12	2.873E-12	2.080E-12	1.562E-12	1.214E-12	9.699E-13	7.916E-13
W	2.617E-11	1.185E-11	9.699E-12	7.020E-12	4.701E-12	3.180E-12	2.278E-12	1.711E-12	1.330E-12	1.063E-12	8.673E-13
WNW	6.765E-11	3.296E-11	2.087E-11	1.142E-11	8.318E-12	5.777E-12	4.147E-12	3.120E-12	2.482E-12	1.983E-12	1.618E-12
NW	1.424E-10	8.128E-11	5.647E-11	3.519E-11	2.144E-11	1.440E-11	1.045E-11	7.849E-12	6.153E-12	4.915E-12	4.012E-12
NNW	8.492E-11	5.100E-11	3.635E-11	2.191E-11	1.407E-11	9.451E-12	6.689E-12	4.931E-12	3.794E-12	3.032E-12	2.475E-12
N	7.248E-11	3.463E-11	2.132E-11	1.148E-11	1.753E-11	1.175E-11	8.391E-12	6.302E-12	4.900E-12	3.915E-12	3.196E-12
NNE	5.209E-11	9.565E-11	5.947E-11	3.104E-11	1.901E-11	1.274E-11	9.119E-12	6.833E-12	5.303E-12	4.232E-12	3.451E-12
NE	2.787E-11	5.617E-11	3.541E-11	1.877E-11	1.153E-11	7.713E-12	5.436E-12	4.054E-12	3.197E-12	2.554E-12	2.085E-12
ENE	1.063E-11	1.698E-11	1.299E-11	8.219E-12	5.291E-12	3.503E-12	2.454E-12	1.818E-12	1.181E-12	9.443E-13	7.716E-13
E	2.493E-11	2.314E-11	1.606E-11	9.412E-12	5.944E-12	3.946E-12	2.784E-12	2.053E-12	1.574E-12	1.364E-12	1.112E-12
ESE	3.050E-11	3.250E-11	2.338E-11	1.416E-11	9.056E-12	6.038E-12	4.271E-12	3.155E-12	2.420E-12	1.914E-12	1.549E-12
SE	8.778E-11	4.175E-11	2.558E-11	1.362E-11	8.444E-12	5.899E-12	4.475E-12	9.165E-12	7.042E-12	5.582E-12	4.529E-12
SSE	2.433E-10	1.751E-10	1.075E-10	5.527E-11	3.362E-11	2.251E-11	1.610E-11	1.206E-11	9.358E-12	7.463E-12	6.084E-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	3.190E-09	1.103E-09	4.069E-10	2.154E-10	1.447E-10	7.052E-11	2.584E-11	1.211E-11	6.819E-12	4.234E-12
SSW	1.133E-09	5.076E-10	2.128E-10	1.298E-10	8.352E-11	4.060E-11	1.564E-11	7.241E-12	3.954E-12	2.492E-12
SW	1.021E-09	5.192E-10	2.097E-10	1.012E-10	5.982E-11	2.611E-11	8.709E-12	4.130E-12	2.470E-12	1.545E-12
WSW	5.675E-10	2.511E-10	8.699E-11	4.154E-11	2.440E-11	1.477E-11	6.811E-12	2.932E-12	1.577E-12	9.762E-13
W	1.253E-09	3.733E-10	1.170E-10	5.590E-11	3.283E-11	1.408E-11	6.584E-12	3.225E-12	1.728E-12	1.070E-12
WNW	2.285E-09	9.550E-10	3.090E-10	1.430E-10	8.376E-11	3.530E-11	1.214E-11	5.803E-12	3.170E-12	1.996E-12
NW	2.792E-09	1.769E-09	5.928E-10	2.756E-10	1.700E-10	8.384E-11	3.381E-11	1.470E-11	7.946E-12	4.948E-12
NNW	1.338E-09	6.774E-10	2.[illegible]E-10	1.569E-10	9.973E-11	5.203E-11	2.164E-11	9.579E-12	5.000E-12	3.051E-12
N	2.028E-09	7.374E-10	2.801E-10	1.483E-10	9.031E-11	3.713E-11	1.635E-11	1.195E-11	6.365E-12	3.941E-12
NNE	1.811E-09	5.830E-10	2.[illegible]E-10	1.068E-10	6.484E-11	6.989E-11	3.201E-11	1.296E-11	6.903E-12	4.260E-12
NE	8.767E-10	2.981E-10	1.089E-10	5.709E-11	3.472E-11	4.065E-11	1.925E-11	7.821E-12	4.123E-12	2.571E-12
ENE	1.615E-10	8.772E-11	3.939E-11	2.165E-11	1.327E-11	1.380E-11	7.977E-12	3.560E-12	1.657E-12	9.505E-13
E	2.653E-10	1.886E-10	9.093E-11	5.067E-11	3.113E-11	2.039E-11	9.347E-12	4.014E-12	2.079E-12	1.333E-12
ESE	5.662E-10	2.671E-10	1.143E-10	6.218E-11	3.805E-11	2.800E-11	1.394E-11	6.136E-12	3.194E-12	1.929E-12
SE	1.707E-09	7.805E-10	3.299E-10	1.790E-10	1.095E-10	4.479E-11	1.398E-11	6.008E-12	7.016E-12	5.625E-12
SSE	4.101E-09	1.642E-09	6.554E-10	3.712E-10	2.830E-10	1.602E-10	5.726E-11	2.291E-11	1.218E-11	7.514E-12

ERP ELEVATED STACK RELEASES - JAN-JUN 1995
CORRECTED FOR OPEN TERRAIN RECIRCULATION
SPECIFIC POINTS OF INTEREST

RELEASE ID	TYPE OF LOCATION	DIRECTION	DISTANCE (MILES)	DISTANCE (METERS)	X/Q (SEC/CUB.METER) NO DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 2.260 DAY DECAY UNDEPLETED	X/Q (SEC/CUB.METER) 8.000 DAY DECAY DEPLETED	D/Q (PER SQ.METER)
A	SITE BOUNDARY	S	0.80	1287.	6.813E-08	6.806E-08	6.668E-08	3.224E-09
A	SITE BOUNDARY	SSW	0.82	1327.	2.913E-08	2.909E-08	2.862E-08	1.164E-09
A	SITE BOUNDARY	SW	0.98	1569.	5.563E-08	5.552E-08	5.491E-08	8.114E-10
A	SITE BOUNDARY	WSW	0.93	1489.	3.301E-08	3.295E-08	3.252E-08	4.241E-10
A	SITE BOUNDARY	W	0.91	1468.	6.491E-08	6.479E-08	6.370E-08	9.388E-10
A	SITE BOUNDARY	WNW	0.94	1509.	1.268E-07	1.265E-07	1.246E-07	2.082E-09
A	SITE BOUNDARY	NW	0.81	1307.	1.155E-07	1.153E-07	1.142E-07	2.184E-09
A	SITE BOUNDARY	NNW	0.69	1106.	3.445E-08	3.441E-08	3.389E-08	1.535E-09
A	SITE BOUNDARY	N	0.67	1086.	3.635E-08	3.633E-08	3.570E-08	2.377E-09
A	SITE BOUNDARY	NNE	0.60	965.	4.010E-08	4.007E-08	3.949E-08	2.376E-09
A	SITE BOUNDARY	NE	0.62	1005.	2.123E-08	2.121E-08	2.089E-08	1.097E-09
A	SITE BOUNDARY	ENE	0.59	945.	1.513E-09	1.512E-09	1.497E-09	1.593E-10
A	SITE BOUNDARY	E	0.53	845.	3.938E-10	3.935E-10	3.937E-10	1.538E-10
A	SITE BOUNDARY	ESE	0.54	865.	1.187E-08	1.185E-08	1.174E-08	6.271E-10
A	SITE BOUNDARY	SE	0.65	1046.	2.894E-08	2.892E-08	2.851E-08	1.895E-09
A	SITE BOUNDARY	SSE	0.81	1307.	7.248E-08	7.243E-08	7.116E-08	4.166E-09
A	NEAR. RESIDENCE	SW	1.30	2092.	6.468E-08	6.449E-08	6.371E-08	8.113E-10
A	NEAR. RESIDENCE	WSW	1.30	2092.	5.048E-08	5.031E-08	4.980E-08	3.471E-10
A	NEAR. RESIDENCE	W	1.00	1609.	6.371E-08	6.357E-08	6.243E-08	7.968E-10
A	NEAR. RESIDENCE	WNW	1.60	2575.	1.053E-07	1.048E-07	1.024E-07	8.426E-10
A	NEAR. RESIDENCE	NW	0.90	1448.	1.441E-07	1.439E-07	1.427E-07	3.553E-09
A	NEAR. RESIDENCE	NNW	1.90	3058.	6.523E-08	6.496E-08	6.403E-08	4.767E-10
A	NEAR. RESIDENCE	N	3.00	4828.	1.471E-08	1.463E-08	1.415E-08	1.966E-10
A	NEAR. RESIDENCE	NNE	2.70	4345.	1.709E-08	1.701E-08	1.650E-08	1.739E-10
A	NEAR. RESIDENCE	ENE	1.70	2736.	6.414E-09	6.390E-09	6.321E-09	7.155E-11
A	NEAR. RESIDENCE	E	1.80	2897.	1.016E-08	1.013E-08	1.001E-08	1.493E-10
A	NEAR. RESIDENCE	ESE	2.40	3863.	1.266E-08	1.258E-08	1.225E-08	1.212E-10
A	NEAREST COW	NNW	3.50	5633.	4.661E-08	4.622E-08	4.541E-08	1.535E-10
A	NEAREST GARDEN	SW	1.30	2092.	6.468E-08	6.449E-08	6.371E-08	8.113E-10
A	NEAREST GARDEN	WSW	1.80	2897.	4.227E-08	4.205E-08	4.150E-08	1.715E-10
A	NEAREST GARDEN	WNW	1.60	2575.	1.053E-07	1.048E-07	1.024E-07	8.426E-10
A	NEAREST GARDEN	NW	2.80	4506.	7.737E-08	7.696E-08	7.439E-08	4.364E-10
A	NEAREST GARDEN	NNW	1.90	3058.	6.523E-08	6.496E-08	6.403E-08	4.767E-10
A	NEAREST GARDEN	N	3.00	4828.	1.471E-08	1.463E-08	1.415E-08	1.966E-10
A	NEAREST GARDEN	ENE	1.70	2736.	6.414E-09	6.390E-09	6.321E-09	7.155E-11
A	NEAREST GARDEN	E	1.80	2897.	1.016E-08	1.013E-08	1.001E-08	1.493E-10
A	NEAREST GARDEN	ESE	2.40	3863.	1.266E-08	1.258E-08	1.225E-08	1.212E-10

ATMOSPHERIC DIFFUSION MODEL

Onsite meteorological data from January 1 through June 30, 1995, 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

$$\Sigma_{zk} = (\sigma_{zk}^2 + 0.5\, D_z^2/\pi)^{\frac{1}{2}} \leq \sqrt{3}\, \sigma_{zk} \qquad \text{(Eq. 2)}$$

where i = index identifying direction sector;

j = index identifying wind speed class;

k = index identifying atmospheric stability class;

$\frac{\chi}{Q}$ = 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

CONTENTS

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 LADTAP II computer program. 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 and 2, respectively, for the first semiannual period.

Assumptions and data sources used for input to the LADTAP II code are described in a separate section of this appendix (see page C18).

Table 1. Doses to Individual at the Site Boundary, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, January-June 1995, Cooper Nuclear Station

Period and Pathway	Dose to Individual, mrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter								
Drinking Water		3.55 E-04	4.31 E-04	5.62 E-04	5.89 E-10	7.54 E-05	1.77 E-05	4.03 E-03
Shoreline	2.61 E-05	2.22 E-05	2.22 E-05	2.22 E-05	2.22 E-05	2.22 E-05	2.22 E-05	2.22 E-05
Totals	2.61 E-05	3.77 E-04	4.53 E-04	5.84 E-04	2.22 E-05	9.76 E-05	3.99 E-05	4.05 E-03
2nd Quarter								
Eating Fish		2.65 E-04	3.70 E-04	2.47 E-04	2.92 E-09	1.24 E-04	4.08 E-05	7.89 E-05
Drinking Water		7.18 E-04	5.00 E-04	5.03 E-04	5.74 E-08	1.28 E-04	4.34 E-05	2.37 E-03
Shoreline	1.03 E-05	8.78 E-06	8.78 E-06	8.78 E-06	8.78 E-06	8.78 E-06	8.78 E-06	8.78 E-06
Totals	1.03 E-05	9.92 E-04	8.79 E-04	7.59 E-04	8.84 E-06	2.61 E-04	9.30 E-05	2.46 E-03
Totals for 1st & 2nd Quarters	3.64 E-05	1.37 E-03	1.33 E-03	1.34 E-03	3.10 E-05	3.59 E-04	1.33 E-04	6.51 E-03

Calculated doses are based on the following periods of exposures:
Fishing : from April through November
Drinking water and shoreline : from January through December

Table 2. Doses to Population Withing a 50-Mile Radius, Resulting From Exposure to Radioactivity Discharged in Liquid Effluents, Jan-June 1995, Cooper Nuclear Station

Period and Pathway	Dose to Population, manrem							
	Skin	Bone	Liver	Total Body	Thyroid	Kidney	Lung	GI-LLI
1st Quarter								
Drinking Water		4.77 E-04	4.91 E-04	6.54 E-04	7.48 E-10	8.60 E-05	2.15 E-05	3.51 E-03
Shoreline	1.38 E-03	1.17 E-03	1.17 E-03	1.17 E-03	1.17 E-03	1.17 E-03	1.17 E-03	1.17 E-03
Totals	1.38 E-03	1.65 E-03	1.66 E-03	1.82 E-03	1.17 E-03	1.26 E-03	1.19 E-03	4.68 E-03
2nd Quarter								
Eating Fish		1.86 E-05	2.42 E-05	1.33 E-05	4.08 E-18	8.05 E-06	2.74 E-06	4.28 E-06
Drinking Water		6.63 E-04	4.00 E-04	3.65 E-04	1.75 E-08	1.02 E-04	3.61 E-05	1.42 E-03
Shoreline	5.47 E-04	4.65 E-04	4.65 E-04	4.65 E-04	4.65 E-04	4.65 E-04	4.65 E-04	4.65 E-04
Swimming		9.63 E-07	9.63 E-07	9.63 E-07	9.63 E-07	9.63 E-07	9.63 E-07	9.63 E-07
Boating		1.07 E-05	1.07 E-05	1.07 E-05	1.07 E-05	1.07 -05	1.07 E-05	1.07 E-05
Totals	5.47 E-04	1.16 E-03	9.01 E-04	8.55 E-04	4.77 E-04	5.87 E-04	5.16 E-04	1.90 E-03
Totals for 1st & 2nd Quarters	1.93 E-03	2.81 E-03	2.56 E-03	2.68 E-03	1.65 E-03	1.85 E-03	1.71 E-03	6.58 E-03

Calculated doses are based on the following periods of exposures:

Fishing and Boating	:	from April through November
Drinking Water and Shoreline	:	from January through December
Swimming	:	from June through 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.

GASEOUS EFFLUENT DOSE CALCULATIONS

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 GASPAR computer code. 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 3 and 4 present maximum individual doses for the first and second quarters; population doses for the same period are given in Tables 5 and 6. Individual and population doses for the first semiannual period are contained in Tables 7 and 8, respectively. In addition, 0 to 50 mile distributions of gamma and beta air doses are presented in Tables 9, 10, and 11 for the first quarter, second quarter, and first semiannual period, respectively.

Because of differences in the amount of valid meteorological data recovered, dose contributions from the first and second quarters of 1995 cannot be summed to provide semiannual doses.

Assumptions and data used for input to the GASPAR code are described in a separate section of this appendix (see page C17).

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 1995

COOPER NUCLEAR STATION JANUARY-MARCH 1995
SPECIAL LOCATION # 1 SITE BOUNDARY
AT 0.67 MILES N

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	5.21E-05	5.21E-05	5.22E-05	5.22E-05	5.22E-05	7.42E-05	5.29E-05	1.32E-04
TEEN	5.22E-05	5.21E-05	5.22E-05	5.22E-05	5.23E-05	8.2[illegible]E-05	5.29E-05	1.32E-04
CHILD	5.22E-05	5.21E-05	5.23E-05	5.23E-05	5.24E-05	1.11E-04	5.29E-05	1.32E-04
INFANT	5.23E-05	5.21E-05	5.24E-05	5.25E-05	5.25E-05	1.76E-04	5.29E-05	1.32E-04

COOPER NUCLEAR STATION JANUARY-MARCH 1995
SPECIAL LOCATION # 2 NEAR.RESIDENCE
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.68E-04	1.68E-04	1.68E-04	1.68E-04	1.68E-04	2.00E-04	1.70E-04	4.01E-04
TEEN	1.68E-04	1.68E-04	1.68E-04	1.68E-04	1.68E-04	2.12E-04	1.70E-04	4.01E-04
CHILD	1.68E-04	1.68E-04	1.68E-04	1.68E-04	1.68E-04	2.53E-04	1.70E-04	4.01E-04
INFANT	1.68E-04	1.68E-04	1.68E-04	1.69E-04	1.69E-04	3.47E-04	1.70E-04	4.01E-04

TABLE 3. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-MARCH 1995 (CONTINUED)

COOPER NUCLEAR STATION JANUARY-MARCH 1995
SPECIAL LOCATION # 3 NEAREST COW
AT 3.50 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.16E-05	2.16E-05	2.16E-05	2.16E-05	2.16E-05	2.30E-05	2.18E-05	4.43E-05
TEEN	2.16E-05	2.16E-05	2.16E-05	2.16E-05	2.16E-05	2.35E-05	2.18E-05	4.43E-05
CHILD	2.16E-05	2.16E-05	2.16E-05	2.16E-05	2.16E-05	2.51E-05	2.18E-05	4.43E-05
INFANT	2.16E-05	2.16E-05	2.16E-05	2.16E-05	2.16E-05	2.88E-05	2.18E-05	4.43E-05

COOPER NUCLEAR STATION JANUARY-MARCH 1995
SPECIAL LOCATION # 4 NEAREST GARDEN
AT 1.90 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.38E-05	4.04E-05	8.27E-05
TEEN	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.52E-05	4.04E-05	8.27E-05
CHILD	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.00E-05	4.98E-05	4.04E-05	8.27E-05
INFANT	4.00E-05	4.00E-05	4.01E-05	4.01E-05	4.01E-05	6.05E-05	4.04E-05	8.27E-05

TABLE 4. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 1995

COOPER NUCLEAR STATION APRIL-JUNE 1995
SPECIAL LOCATION # 1 SITE BOUNDARY
AT 0.67 MILES N

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	7.81E-08	4.01E-08	9.35E-08	1.30E-07	2.18E-07	4.02E-05	7.94E-09	9.64E-09
TEEN	1.11E-07	4.55E-08	1.45E-07	1.99E-07	3.36E-07	5.58E-05	7.94E-09	9.64E-09
CHILD	1.90E-07	3.63E-08	3.26E-07	3.28E-07	5.33E-07	1.06E-04	7.94E-09	9.64E-09
INFANT	3.07E-07	3.22E-08	5.86E-07	6.89E-07	8.04E-07	2.24E-04	7.94E-09	9.64E-09

COOPER NUCLEAR STATION APRIL-JUNE 1995
SPECIAL LOCATION # 2 NEAR.RESIDENCE
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.07E-07	5.53E-08	1.29E-07	1.79E-07	2.99E-07	5.51E-05	1.10E-08	1.33E-08
TEEN	1.52E-07	6.27E-08	1.98E-07	2.74E-07	4.63E-07	7.67E-05	1.10E-08	1.33E-08
CHILD	2.61E-07	5.01E-08	4.49E-07	4.52E-07	7.34E-07	1.46E-04	1.10E-08	1.33E-08
INFANT	4.24E-07	4.45E-08	8.09E-07	9.51E-07	1.11E-06	3.09E-04	1.10E-08	1.33E-08

TABLE 4. DOSES TO MAXIMUM INDIVIDUAL (MREM), APRIL-JUNE 1995 (CONTINUED)

COOPER NUCLEAR STATION APRIL-JUNE 1995
SPECIAL LOCATION # 3 NEAREST COW
AT 3.50 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	5.62E-09	2.87E-09	6.73E-09	9.39E-09	1.57E-08	2.89E-06	5.63E-10	6.83E-10
TEEN	7.94E-09	3.25E-09	1.04E-08	1.43E-08	2.42E-08	4.01E-06	5.63E-10	6.83E-10
CHILD	1.36E-08	2.58E-09	2.33E-08	2.34E-08	3.81E-08	7.56E-06	5.63E-10	6.83E-10
INFANT	2.18E-08	2.29E-09	4.17E-08	4.90E-08	5.72E-08	1.59E-05	5.63E-10	6.83E-10

COOPER NUCLEAR STATION APRIL-JUNE 1995
SPECIAL LOCATION # 4 NEAREST GARDEN
AT 1.90 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.91E-08	9.79E-09	2.30E-08	3.19E-08	5.34E-08	9.84E-06	1.93E-09	2.35E-09
TEEN	2.70E-08	1.11E-08	3.54E-08	4.88E-08	8.24E-08	1.36E-05	1.93E-09	2.35E-09
CHILD	4.63E-08	8.85E-09	7.96E-08	8.00E-08	1.30E-07	2.58E-05	1.93E-09	2.35E-09
INFANT	7.49E-08	7.85E-09	1.43E-07	1.68E-07	1.96E-07	5.46E-05	1.93E-09	2.35E-09

TABLE 5. DOSES TO POPULATION WITHIN 50 MILES, JANUARY-MARCH 1995

COOPER NUCLEAR STATION JANUARY-MARCH 1995
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	5.48E-05	5.48E-05	5.48E-05	5.48E-05	5.48E-05	5.48E-05	5.58E-05	1.39E-04
GROUND	2.54E-09	2.54E-09	2.54E-09	2.54E-09	2.54E-09	2.54E-09	2.54E-09	3.08E-09
INHAL	2.28E-09	5.80E-10	3.11E-09	4.03E-09	6.83E-09	1.33E-06	0.00E+00	0.00E+00
VEGET	2.69E-08	8.98E-09	3.86E-08	4.75E-08	8.02E-08	1.54E-05	0.00E+00	0.00E+00
COW MILK	3.51E-08	1.09E-08	5.18E-08	6.20E-08	1.04E-07	2.01E-05	0.00E+00	0.00E+00
MEAT	7.60E-10	2.97E-10	1.02E-09	1.34E-09	2.27E-09	4.34E-07	0.00E+00	0.00E+00
TOTAL	5.48E-05	5.48E-05	5.49E-05	5.49E-05	5.50E-05	9.20E-05	5.58E-05	1.39E-04

TABLE 6. DOSES TO POPULATION WITHIN 50 MILES, APRIL-JUNE 1995

COOPER NUCLEAR STATION APRIL-JUNE 1995
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
GROUND	1.75E-09	1.75E-09	1.75E-09	1.75E-09	1.75E-09	1.75E-09	1.75E-09	2.12E-09
INHAL	1.15E-09	2.94E-10	1.57E-09	2.04E-09	3.46E-09	6.72E-07	0.00E+00	0.00E+00
VEGET	1.77E-08	5.90E-09	2.54E-08	3.12E-08	5.27E-08	1.01E-05	0.00E+00	0.00E+00
COW MILK	2.40E-08	7.42E-09	3.54E-08	4.24E-08	7.14E-08	1.37E-05	0.00E+00	0.00E+00
MEAT	5.20E-10	2.03E-10	6.95E-10	9.14E-10	1.55E-09	2.97E-07	0.00E+00	0.00E+00
TOTAL	4.51E-08	1.56E-08	6.48E-08	7.84E-08	1.31E-07	2.48E-05	1.75E-09	2.12E-09

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 1995

COOPER NUCLEAR STATION JANUARY-JUNE 1995
SPECIAL LOCATION # 1 SITE BOUNDARY
AT 0.67 MILES N

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	4.58E-05	4.58E-05	4.59E-05	4.60E-05	4.61E-05	1.22E-04	4.64E-05	1.16E-04
TEEN	4.59E-05	4.58E-05	4.60E-05	4.61E-05	4.63E-05	1.52E-04	4.64E-05	1.16E-04
CHILD	4.61E-05	4.58E-05	4.63E-05	4.63E-05	4.67E-05	2.49E-04	4.64E-05	1.16E-04
INFANT	4.63E-05	4.58E-05	4.68E-05	4.70E-05	4.72E-05	4.76E-04	4.64E-05	1.16E-04

COOPER NUCLEAR STATION JANUARY-JUNE 1995
SPECIAL LOCATION # 2 NEAR.RESIDENCE
AT 0.90 MILES NW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.22E-04	1.22E-04	1.22E-04	1.22E-04	1.23E-04	2.29E-04	1.24E-04	2.94E-04
TEEN	1.22E-04	1.22E-04	1.22E-04	1.23E-04	1.23E-04	2.70E-04	1.24E-04	2.94E-04
CHILD	1.23E-04	1.22E-04	1.23E-04	1.23E-04	1.23E-04	4.04E-04	1.24E-04	2.94E-04
INFANT	1.23E-04	1.22E-04	1.24E-04	1.24E-04	1.24E-04	7.19E-04	1.24E-04	2.94E-04

TABLE 7. DOSES TO MAXIMUM INDIVIDUAL (MREM), JANUARY-JUNE 1995 (CONTINUED)

COOPER NUCLEAR STATION JANUARY-JUNE 1995
SPECIAL LOCATION # 3 NEAREST COW
AT 3.50 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	1.38E-05	1.38E-05	1.38E-05	1.38E-05	1.38E-05	1.87E-05	1.40E-05	2.84E-05
TEEN	1.38E-05	1.38E-05	1.38E-05	1.38E-05	1.38E-05	2.06E-05	1.40E-05	2.84E-05
CHILD	1.38E-05	1.38E-05	1.38E-05	1.38E-05	1.39E-05	2.63E-05	1.40E-05	2.84E-05
INFANT	1.38E-05	1.38E-05	1.39E-05	1.39E-05	1.39E-05	3.98E-05	1.40E-05	2.84E-05

COOPER NUCLEAR STATION JANUARY-JUNE 1995
SPECIAL LOCATION # 4 NEAREST GARDEN
AT 1.90 MILESNNW

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
ADULT	2.89E-05	2.89E-05	2.89E-05	2.89E-05	2.90E-05	4.36E-05	2.93E-05	6.03E-05
TEEN	2.89E-05	2.89E-05	2.90E-05	2.90E-05	2.90E-05	4.93E-05	2.93E-05	6.03E-05
CHILD	2.90E-05	2.89E-05	2.90E-05	2.90E-05	2.91E-05	6.72E-05	2.93E-05	6.03E-05
INFANT	2.90E-05	2.89E-05	2.91E-05	2.91E-05	2.92E-05	1.09E-04	2.93E-05	6.03E-05

TABLE 8. DOSES TO POPULATION WITHIN 50 MILES, JANUARY-JUNE 1995

COOPER NUCLEAR STATION JANUARY-JUNE 1995
ALARA ANNUAL INTEGRATED POPULATION DOSE SUMMARY (MANREM)

PATHWAY	T.BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.34E-05	3.40E-05	8.45E-05
GROUND	6.61E-09	6.61E-09	6.61E-09	6.61E-09	6.61E-09	6.61E-09	6.61E-09	8.02E-09
INHAL	5.69E-09	1.45E-09	7.76E-09	1.01E-08	1.71E-08	3.31E-06	0.00E+00	0.00E+00
VEGET	6.99E-08	2.33E-08	1.00E-07	1.23E-07	2.08E-07	4.00E-05	0.00E+00	0.00E+00
COW MILK	9.18E-08	2.84E-08	1.35E-07	1.62E-07	2.73E-07	5.25E-05	0.00E+00	0.00E+00
MEAT	1.99E-09	7.78E-10	2.66E-09	3.50E-09	5.95E-09	1.14E-06	0.00E+00	0.00E+00
TOTAL	3.36E-05	3.34E-05	3.36E-05	3.37E-05	3.39E-05	1.30E-04	3.40E-05	8.45E-05

TABLE 9. GAMMA AND BETA AIR DOSES, JANUARY-MARCH 1995

COOPER NUCLEAR STATION JANUARY-MARCH 1995

INDIVIDUAL ANNUAL GAMMA AIR DOSE (MILLIRADS)

	DISTANCE IN MILES									
DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	7.889E-05	3.985E-05	2.065E-05	1.189E-05	7.221E-06	2.915E-06	1.138E-06	5.106E-07	2.469E-07	1.364E-07
NNE	1.042E-04	4.042E-05	1.919E-05	1.129E-05	7.640E-06	1.113E-05	2.926E-06	1.027E-06	4.752E-07	2.551E-07
NE	4.624E-05	2.541E-05	1.350E-05	8.328E-06	5.547E-06	7.524E-06	1.903E-06	6.411E-07	2.929E-07	1.543E-07
ENE	3.398E-06	8.248E-06	5.300E-06	3.359E-06	2.239E-06	2.454E-06	6.340E-07	2.149E-07	1.010E-07	5.249E-08
E	7.005E-07	1.421E-05	8.610E-06	5.045E-06	3.262E-06	3.242E-06	8.459E-07	2.971E-07	1.404E-07	7.738E-08
ESE	1.925E-05	1.667E-05	9.375E-06	5.554E-06	3.725E-06	4.157E-06	1.147E-06	4.084E-07	1.917E-07	1.034E-07
SE	8.699E-05	6.540E-05	3.110E-05	1.776E-05	1.179E-05	4.533E-06	1.687E-06	6.684E-07	3.250E-07	1.743E-07
SSE	1.704E-04	1.787E-04	5.894E-05	3.264E-05	3.865E-05	1.301E-05	3.201E-06	1.100E-06	5.121E-07	2.756E-07
S	1.923E-04	7.965E-05	3.334E-05	1.773E-05	1.721E-05	6.995E-06	1.729E-06	5.690E-07	2.374E-07	1.182E-07
SSW	6.884E-05	3.503E-05	1.715E-05	1.302E-05	8.241E-06	3.970E-06	9.064E-07	2.798E-07	1.121E-07	5.416E-08
SW	7.594E-05	6.980E-05	2.219E-05	1.017E-05	5.785E-06	2.380E-06	5.455E-07	1.630E-07	6.641E-08	3.213E-08
WSW	3.922E-05	5.563E-05	1.813E-05	8.869E-06	5.282E-06	2.533E-06	7.032E-07	1.823E-07	6.858E-08	3.251E-08
W	5.079E-05	3.850E-05	1.275E-05	6.373E-06	3.755E-06	1.473E-06	5.370E-07	1.772E-07	6.747E-08	3.232E-08
WNW	1.573E-04	9.957E-05	2.932E-05	1.446E-05	8.239E-06	2.957E-06	7.205E-07	2.001E-07	7.810E-08	3.693E-08
NW	6.913E-05	2.948E-04	7.921E-05	3.778E-05	2.083E-05	7.218E-06	1.980E-06	6.503E-07	2.924E-07	1.513E-07
NNW	1.887E-05	6.811E-05	4.652E-05	3.212E-05	1.808E-05	6.936E-06	1.725E-06	5.483E-07	2.380E-07	1.227E-07

INDIVIDUAL ANNUAL BETA AIR DOSE (MILLIRADS)

	DISTANCE IN MILES									
DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	8.190E-05	3.281E-05	1.517E-05	8.497E-06	5.190E-06	2.175E-06	8.822E-07	4.143E-07	2.157E-07	1.317E-07
NNE	1.041E-04	3.206E-05	1.380E-05	8.079E-06	5.538E-06	8.446E-06	2.304E-06	8.742E-07	4.598E-07	2.878E-07
NE	4.587E-05	1.865E-05	9.676E-06	6.108E-06	4.160E-06	5.769E-06	1.520E-06	5.683E-07	3.022E-07	1.891E-07
ENE	3.437E-06	6.425E-06	3.829E-06	2.397E-06	1.621E-06	1.872E-06	5.032E-07	1.880E-07	1.021E-07	6.324E-08
E	6.953E-07	1.084E-05	6.177E-06	3.614E-06	2.379E-06	2.455E-06	6.641E-07	2.496E-07	1.310E-07	8.323E-08
ESE	1.779E-05	1.204E-05	6.733E-06	4.097E-06	2.797E-06	3.183E-06	9.098E-07	3.533E-07	1.886E-07	1.187E-07
SE	8.735E-05	5.571E-05	2.286E-05	1.267E-05	8.439E-06	3.394E-06	1.311E-06	5.463E-07	2.970E-07	1.819E-07
SSE	1.657E-04	1.744E-04	4.574E-05	2.376E-05	2.766E-05	9.739E-06	2.495E-06	9.065E-07	4.636E-07	2.821E-07
S	1.885E-04	6.557E-05	2.423E-05	1.265E-05	1.247E-05	5.363E-06	1.392E-06	5.402E-07	2.812E-07	1.790E-07
SSW	6.698E-05	2.646E-05	1.224E-05	9.573E-06	6.210E-06	3.090E-06	7.676E-07	2.947E-07	1.537E-07	9.618E-08
SW	7.572E-05	5.268E-05	1.583E-05	7.418E-06	4.317E-06	1.843E-06	4.521E-07	1.645E-07	8.561E-08	5.298E-08
WSW	3.990E-05	4.024E-05	1.316E-05	6.636E-06	4.027E-06	2.012E-06	6.892E-07	2.659E-07	1.466E-07	9.502E-08
W	4.822E-05	2.811E-05	9.192E-06	4.745E-06	2.866E-06	1.157E-06	5.094E-07	2.513E-07	1.391E-07	9.076E-08
WNW	1.521E-04	7.118E-05	2.145E-05	1.093E-05	6.326E-06	2.345E-06	6.785E-07	2.709E-07	1.525E-07	9.841E-08
NW	6.857E-05	2.288E-04	5.652E-05	2.722E-05	1.534E-05	5.528E-06	1.580E-06	5.782E-07	3.056E-07	1.894E-07
NNW	1.848E-05	5.105E-05	3.321E-05	2.350E-05	1.352E-05	5.361E-06	1.414E-06	5.295E-07	2.864E-07	1.866E-07

TABLE 10. GAMMA AND BETA AIR DOSES, APRIL-JUNE 1995

COOPER NUCLEAR STATION APRIL-JUNE 1995

INDIVIDUAL ANNUAL GAMMA AIR DOSE (MILLIRADS)

DISTANCE IN MILES

DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NNE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ENE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
E	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ESE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
S	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

INDIVIDUAL ANNUAL BETA AIR DOSE (MILLIRADS)

DISTANCE IN MILES

DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NNE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ENE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
E	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
ESE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSE	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
S	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
SW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WSW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
W	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
WNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00
NNW	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00	0.000E+00

TABLE 11. GAMMA AND BETA AIR DOSES, JANUARY-JUNE 1995

COOPER NUCLEAR STATION JANUARY-JUNE 1995

INDIVIDUAL ANNUAL GAMMA AIR DOSE (MILLIRADS)

DISTANCE IN MILES

DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	5.397E-05	2.856E-05	1.237E-05	6.708E-06	4.167E-06	1.628E-06	6.233E-07	2.723E-07	1.287E-07	7.030E-08
NNE	6.294E-05	2.499E-05	1.181E-05	6.927E-06	4.532E-06	6.356E-06	1.666E-06	5.933E-07	2.754E-07	1.490E-07
NE	2.783E-05	1.390E-05	7.436E-06	4.576E-06	3.058E-06	3.983E-06	1.012E-06	3.412E-07	1.560E-07	8.157E-08
ENE	1.928E-06	4.902E-06	2.965E-06	1.807E-06	1.246E-06	1.310E-06	3.369E-07	1.118E-07	5.117E-08	2.657E-08
E	3.978E-07	8.815E-06	4.980E-06	2.887E-06	1.863E-06	1.760E-06	4.546E-07	1.610E-07	7.496E-08	4.165E-08
ESE	1.660E-05	1.185E-05	6.186E-06	3.603E-06	2.330E-06	2.364E-06	6.401E-07	2.290E-07	1.070E-07	5.804E-08
SE	5.099E-05	3.530E-05	1.770E-05	9.543E-06	6.299E-06	2.555E-06	9.253E-07	3.704E-07	1.795E-07	9.752E-08
SSE	1.075E-04	6.969E-05	3.209E-05	1.757E-05	2.127E-05	7.114E-06	1.752E-06	6.089E-07	2.810E-07	1.499E-07
S	1.199E-04	4.243E-05	1.819E-05	9.471E-06	9.154E-06	3.907E-06	9.702E-07	3.219E-07	1.356E-07	6.709E-08
SSW	4.054E-05	2.059E-05	1.046E-05	8.517E-06	5.675E-06	3.138E-06	7.451E-07	2.453E-07	1.005E-07	4.932E-08
SW	4.665E-05	4.589E-05	1.458E-05	6.696E-06	3.775E-06	1.558E-06	3.542E-07	1.070E-07	4.333E-08	2.096E-08
WSW	2.323E-05	3.709E-05	1.181E-05	5.516E-06	3.175E-06	1.575E-06	4.396E-07	1.139E-07	4.278E-08	2.031E-08
W	6.102E-05	3.792E-05	1.181E-05	5.551E-06	3.271E-06	1.222E-06	3.957E-07	1.232E-07	4.685E-08	2.224E-08
WNW	9.449E-05	7.731E-05	2.150E-05	9.988E-06	5.660E-06	1.974E-06	4.691E-07	1.308E-07	5.098E-08	2.409E-08
NW	6.314E-05	2.944E-04	5.743E-05	2.661E-05	1.433E-05	4.881E-06	1.313E-06	4.416E-07	2.023E-07	1.056E-07
NNW	3.588E-05	5.265E-05	3.178E-05	2.061E-05	1.159E-05	4.224E-06	1.048E-06	3.388E-07	1.473E-07	7.594E-08

INDIVIDUAL ANNUAL BETA AIR DOSE (MILLIRADS)

DISTANCE IN MILES

DIR	0.0-1.	1.-2.	2.-3.	3.-4.	4.-5.	5.-10.	10.-20.	20.-30.	30.-40.	40.-50.
N	5.400E-05	2.476E-05	9.114E-06	4.786E-06	3.002E-06	1.224E-06	4.867E-07	2.257E-07	1.174E-07	7.219E-08
NNE	6.345E-05	2.024E-05	8.568E-06	4.943E-06	3.277E-06	4.817E-06	1.309E-06	5.009E-07	2.625E-07	1.641E-07
NE	2.789E-05	1.023E-05	5.322E-06	3.348E-06	2.287E-06	3.055E-06	8.077E-07	3.019E-07	1.604E-07	1.000E-07
ENE	1.975E-06	3.733E-06	2.115E-06	1.308E-06	9.164E-07	1.005E-06	2.693E-07	9.998E-08	5.394E-08	3.358E-08
E	3.910E-07	6.933E-06	3.584E-06	2.065E-06	1.354E-06	1.331E-06	3.567E-07	1.346E-07	6.986E-08	4.448E-08
ESE	1.611E-05	8.697E-06	4.423E-06	2.633E-06	1.739E-06	1.805E-06	5.066E-07	1.963E-07	1.040E-07	6.532E-08
SE	5.235E-05	3.008E-05	1.319E-05	6.808E-06	4.517E-06	1.903E-06	7.186E-07	3.013E-07	1.627E-07	9.999E-08
SSE	1.090E-04	6.203E-05	2.490E-05	1.273E-05	1.525E-05	5.343E-06	1.368E-06	5.028E-07	2.562E-07	1.555E-07
S	1.220E-04	3.476E-05	1.322E-05	6.769E-06	6.660E-06	2.994E-06	7.801E-07	3.044E-07	1.588E-07	1.009E-07
SSW	3.989E-05	1.543E-05	7.464E-06	6.239E-06	4.251E-06	2.436E-06	6.248E-07	2.509E-07	1.321E-07	8.324E-08
SW	4.505E-05	3.426E-05	1.042E-05	4.906E-06	2.832E-06	1.208E-06	2.953E-07	1.084E-07	5.628E-08	3.483E-08
WSW	2.305E-05	2.709E-05	8.510E-06	4.115E-06	2.423E-06	1.249E-06	4.329E-07	1.676E-07	9.251E-08	6.010E-08
W	5.884E-05	2.814E-05	8.492E-06	4.139E-06	2.494E-06	9.595E-07	3.717E-07	1.723E-07	9.477E-08	6.142E-08
WNW	9.019E-05	5.627E-05	1.552E-05	7.477E-06	4.310E-06	1.549E-06	4.247E-07	1.645E-07	9.111E-08	5.834E-08
NW	6.228E-05	1.607E-04	4.127E-05	1.903E-05	1.046E-05	3.716E-06	1.039E-06	3.815E-07	2.004E-07	1.232E-07
NNW	3.501E-05	4.048E-05	2.267E-05	1.496E-05	8.594E-06	3.254E-06	8.508E-07	3.174E-07	1.696E-07	1.094E-07

DOSE CALCULATION MODELS

To evaluate the radiological consequences of the routine release of liquid and gaseous effluents from the Cooper Nuclear Station, two computer codes were used: LADTAP II for liquid doses and GASPAR for gaseous doses. 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 12. 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)
- 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 12. Values of Parameters Used to Make Dose Estimates Resulting From Liquid Discharges at Cooper Nuclear Station January-June 1995

Parameter	Values Assigned	
	Individual	Population
Cooling flow rate (cfs) * (Average daily value)	830.27; 1305.78	830.27; 1305.78
Dilution factor	1	38.86; 56.48
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 **

* First and Second quarter station data for 1995, 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.

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