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24 M METEOROLOGICAL TOWER DATA REPORT PERIOD: JANUARY THROUGH DECEMBER, 1994

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1.0 INTRODUCTION

This report was prepared by the Desert Research Institute (DRI) for the U. S. Department of Energy (DOE). It summarizes meteorological data collected at the 24 meter tower at the Nevada Test Site Hazardous Material Spill Center (HAZMAT) located at Frenchman Flat near Mercury, Nevada, approximately 75 miles northwest of Las Vegas, Nevada (Figure 1-1). The tower was originally installed in July, 1993 to characterize baseline conditions for an EPA sponsored experimental research program at the HAZMAT.

This report presents results of the monitoring for January-December, 1994, providing:

- a status of the measurement systems (including any quality assurance activities) during the report period and
- a summary of the meteorological conditions at the HAZMAT during the report period.

The scope of the report is limited to summary data analyses and does not include extensive meteorological analysis

2.0 MEASUREMENT METHODS

Detailed measurement methods are described in a QA Plan written for operation of the met tower (DRI/Western Research Institute, 1993). The plan covers data processing, validation and reporting of the tower data as well as operation and maintenance of the instruments.

For convenience, the design characteristics of the met tower are repeated in Table 2-1. In summary, the tower was instrumented at eight levels. Wind speed, wind direction, and temperature were measured at all 8 levels: ¼, ½, 1, 2, 4, 8, 16, and 24 meters above the ground. Relative humidity was measured at 3 levels: 1, 4, and 16 meters above the ground. Solar and net radiation were measured 2 meters above the ground, approximately 20 meters to the south of the tower. Barometric pressure was measured at the base of the tower, soil temperature was measured near the base of the tower. Wind sensors were mounted on retractable arms at about 2.5 m from the tower. Temperature sensors were housed in aspirated radiation shields near the wind sensors. Relative humidity sensors were mounted in passive radiation shields. Data were collected using a Campbell Scientific, model 21X, data acquisition system (DAS) with multiplexer, interval timer, and 32 analog outputs.

During the EPA dense gas dispersion experiments, wind speed and direction sensors were modified to have faster response characteristics. For year round operation, the threshold value for wind speed is 0.4 mps and 0.5 mps for wind direction at 10° displacement. During experiments, the threshold value for wind speed was 0.2 mps and for wind direction it was 0.4 mps at 10° displacement. No experiments requiring a change in sensors occurred during the report period.

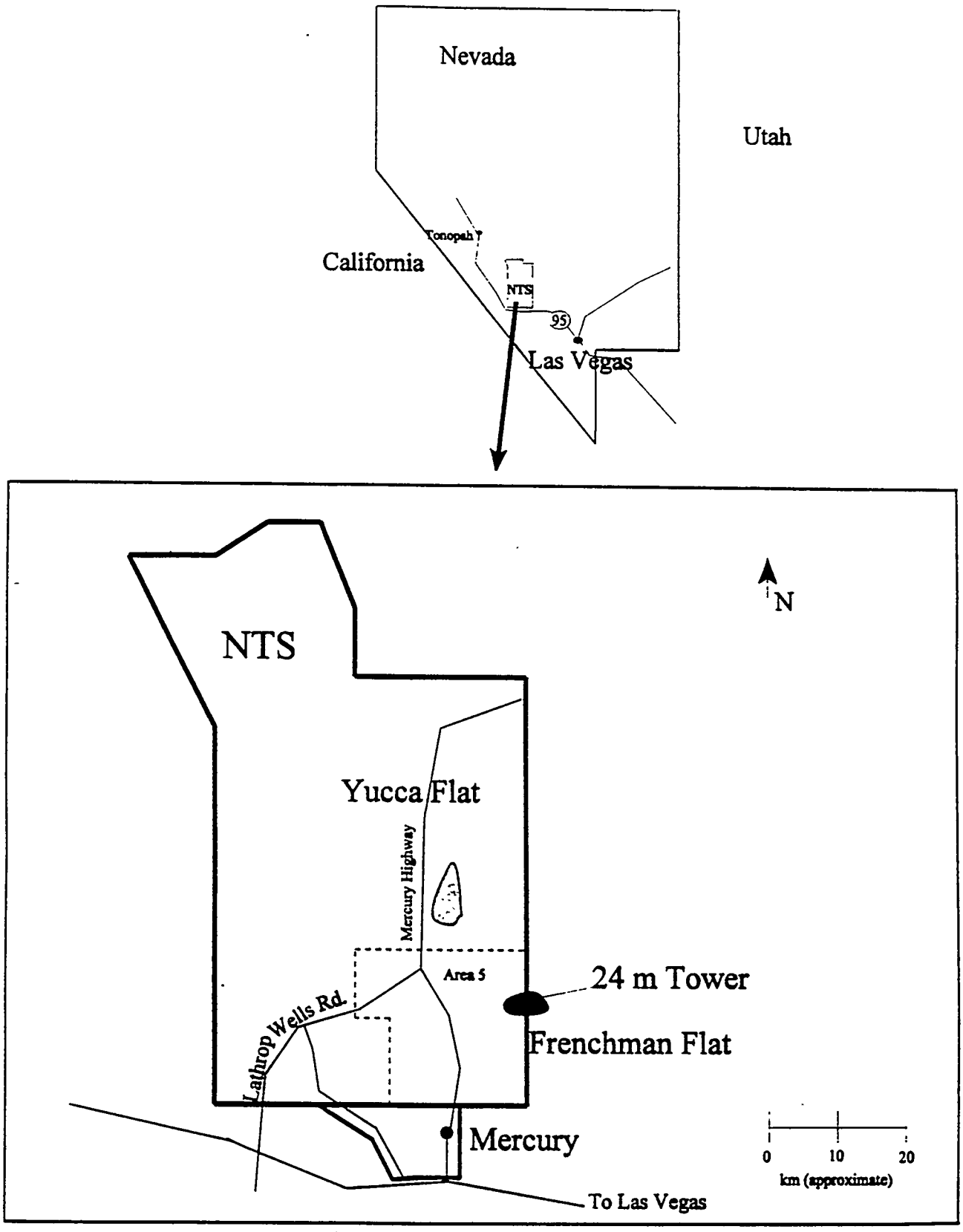


Figure 1-1 Location of Project

Table 2-1 Instrument Design

Parameter	Units	Range	Method	Manufacturer	Model	Precision	Accuracy
Wind Speed	mps	0 to 44.7	Anemometer	R.M. Young	AQ-5305	0.1 mps	0.1 mps
Wind Direction	degrees	0 to 360	Wind Vane	R.M. Young	AQ-5305	3 degrees	3 degrees
Temperature-air	°C	-30 to 50	platinum resistance Thermometer	R.M. Young	none	0.1 °C	0.2 °C
Temperature-soil	°C	-30 to 50	Fenwal Thermistor	Campbell Sci.	107B	0.1 °C	0.2 °C
Relative Humid.	percent	0 to 100	Capacitive	Vaisala	HMP-35C	5 %	5 %
Barometric Pressure	mb	800 to 1060	Silicon Capacitive	Vaisala	PTA-427	2 mb	2 mb
Solar Radiation	w/m^2	0 to 1396	Silicon Photodiode	LI-COR	LI200	25 w/m^2	25 w/m^2
Net Radiation	w/m^2	-200 to 1396	Differential Thermopile	REBS	none	25 w/m^2	25 w/m^2

Actual Height (m) From Ground to Center of Sensor						
Nominal Level (m)	Wind Speed	Wind Direction	Temperature	Relative Humidity	Solar Radiation *	Net Radiation
24	24.31	24.31	23.99			
16	16.01	16.01	15.95	16.40		
8	7.81	7.81	7.78			
4	4.12	4.12	4.08	4.53		
2	2.01	2.01	1.98		1.88	1.71
1	0.95	0.95	1.02	1.25		
0.50	0.50	0.50	0.57			
0.25	0.26	0.26	0.25			
soil			-0.07			

* Radiation sensors are actually on separate towers approximately 20 m south of the main tower.

2.1 Computations

Sensor voltages were processed by the Campbell Scientific Data Acquisition System (DAS) at a sampling rate of once every 10 seconds and stored in engineering units as 15 minute averages. Data were automatically downloaded daily from the DAS by telephone to a personal computer at DRI's Data Processing Center in Reno. Proper data downloading was verified daily (Monday through Friday), and daily files were concatenated into weekly files for weekly evaluation of measurement system integrity.

Weekly files were concatenated into monthly files of 15 minute averages. In addition to the 15 minute data, files of hourly averaged data were constructed from validated 15 minute data. Wind

frequency distributions and stability classes were calculated from the hourly data (Section 6.0). All times are Pacific Standard Time (PST) and the time stamp represents the beginning of the averaging period (e.g., 0900 is the average from 0900-0915).

3.0 OPERATIONAL STATUS

A summary of problems and changes to instruments occurring during the report period is provided in Table 3-1 and the percent data recovery in Table 3-2.

Table 3-1 Operational Summary

Start Date	Event	End Date	Action
1/1/94	24 m temperature sensor failure	2/12/94	Replaced 24 m sensor
1/25/94	Datalogger malfunction (all output off scale high)	2/1/94	Replaced datalogger
1/25/94	16 m temperature sensor failure	2/12/94	Switched 0.5 m sensor to 16 m
2/11/94	Installed new power supply and voltage regulator for datalogger	Not applicable	Not Applicable
2/12/94	0.5 m temperature sensor moved to 16 m	2/20/94	Replaced 0.5 m sensor
3/6/94	24 m temperature sensor failure	4/5/94	Replaced 24 m sensor
4/5/94	DRI calibration	Not Applicable	Not Applicable
9/19-20/94	DRI calibration	Not Applicable	Not Applicable

Table 3-2 Data Recovery for Each Measurement by Month

Measurement	January	February	March	April	May	June	July	August	September	October	November	December
Wind Speed and Direction												
24 m	78.0	85.4	100.0	99.9	96.9	100.0	98.5	98.3	98.1	100.0	100.0	64.8
16 m	78.0	85.4	100.0	99.9	96.9	100.0	100.0	100.0	99.3	100.0	100.0	64.8
8 m	78.0	85.4	100.0	99.9	96.9	100.0	100.0	100.0	99.2	98.5	99.7	64.8
4 m	78.0	85.4	100.0	99.4	96.9	100.0	100.0	100.0	99.7	100.0	99.9	64.8
2 m	78.0	85.4	100.0	99.6	96.9	100.0	100.0	100.0	99.7	100.0	100.0	64.8
1 m	78.0	85.4	100.0	99.6	96.9	100.0	100.0	100.0	99.7	100.0	99.4	64.8
0.5 m	78.0	85.4	100.0	99.6	96.9	100.0	100.0	100.0	99.7	100.0	100.0	64.8
0.25 m	78.0	85.4	100.0	99.6	96.9	100.0	100.0	100.0	99.7	100.0	100.0	64.8
Temperature												
24 m	0.0	52.1	18.8	84.7	96.9	99.9	99.9	100	98.6	100.0	100	64.8
16 m	78.0	52.1	99.9	99.3	96.9	99.9	99.9	100	98.6	100.0	100	64.8
8 m	78.0	75.1	99.9	99.3	96.9	99.9	99.9	100	98.6	100.0	100	64.8
4 m	78.0	75.1	99.9	99.3	96.9	99.9	99.9	100	98.6	100.0	100	64.8
2 m	78.0	75.1	99.9	99.3	96.9	99.9	99.9	100	98.6	100.0	100	64.8
1 m	78.0	75.1	99.9	99.3	96.9	99.9	99.9	100	98.6	100.0	100	64.8
0.5 m	78.0	50.7	99.9	99.3	96.9	99.9	99.9	100	98.6	100.0	100	64.8
0.25 m	78.0	75.1	99.9	99.3	96.9	99.9	99.9	100	98.6	100.0	100	64.8
Soil												
Relative Humidity												
16 m	78	85	100	99	97	100	100	100	99	100	100	65
4 m	78	85	100	100	97	100	100	100	99	100	100	65
1 m	78	85	100	100	97	100	100	100	99	100	100	65
Solar Radiation	78	85	100	99	97	99	100	100	99	100	100	65
Net Radiation	78	85	100	99	96	99	66		38	100	100	65
Barometric Pressure	78	85	100	100	97	100	100	100	100	100	100	65

4.0 DATA QUALITY ASSURANCE

In accordance with the QA Plan (DRI/WRI, 1993), calibrations were performed semiannually. For this report period, calibrations were performed in April and September.

Calibration procedures are detailed in the QA Plan (DRI/WRI, 1994). In summary, temperature sensors were calibrated by side by side comparison with an audit thermometer in the field. Wind speed was checked using a constant speed motor. Wind direction was verified against targets of known direction. Relative humidity and barometric pressure were verified against a psychrometer and altimeter, respectively. Solar radiation was verified against a Precision Spectral Pyranometer run side by side.

Accuracy of the sensors, in terms of the difference between the calibration target and the value measured by each sensor, is summarized in Table 4-1. More detailed calibration results for each measurement are provided in Tables 4-2 through 4-6.

Table 4-1a. Accuracy of Meteorological Data Based on Calibration Data, April, 1994

DIFFERENCE FROM CALIBRATION STANDARD									
Level (meters)	Temperature (°C) Water Bath[a] Mean	Std Dev	Wind Speed (mps) Constant Motor Mean	Std Dev	Wind Direction (degrees) Orientation Mean	Std Dev	Relative Humidity Psychrometer[c] %	Barometric Pressure (mb)	Solar Radiation (W/m^2)
24	-0.69	0.49	0.00	0.00	-0.7	1.4			
6	-0.67	0.65	0.00	0.00	0.9	0.9	N/A		
8	-0.22	0.63	0.00	0.01	2.1	1.0			
4	-0.62	0.62	0.00	0.00	4.4[b]	1.6[b]	N/A		
2	-0.51	0.58	0.00	0.00	-0.5	1.9			
1	-0.63	0.53	0.00	0.00	1.7	1.2	N/A	-1.6	32.2
0.5	-0.74	0.45	0.00	0.00	-0.5	1.1			
0.25	-0.86	0.49	0.00	0.00	1.0	1.3			

[a] Temperature values shown in this table were used to prepare linear regression calibration relationships, as detailed in Table 4-3.

[b] After adjustment, 4 m wind direction had mean difference -0.1, standard deviation 0.6.

[c] See note in Table 4-6.

N/A not available

Table 4-1b. Accuracy of Meteorological Data Based on Calibration Data, September, 1994

DIFFERENCE FROM CALIBRATION STANDARD											
Level (meters)	Temperature (°C) Water Bath[a] (Before Program Change) Mean	Std Dev	Temperature (°C) Water Bath[a] (After Program Change) Mean	Std Dev	Wind Speed (mps) Constant Motor Mean	Std Dev	Wind Direction (degrees) Orientation Mean	Std Dev	Relative Humidity Psychrometer %	Barometric Pressure (mb)	Solar Radiation (W/m^2)
24	-0.76	0.45	-0.16	0.03	0.00	0.00	-1.1	1.6			
16	-0.74	0.55	-0.09	0.14	0.00	0.00	1.4	1.6	2.2		
8	-0.24	0.54	-0.54	0.13	0.00	0.01	1.8	1.1			
4	-0.66	0.57	-0.26	0.19	0.01	0.01	0.1	0.8	0.1		
2	-0.50	0.48	-0.18	0.09	0.00	0.00	-2.2	1.6			
1	-0.65	0.47	-0.06	0.11	0.00	0.01	0.2	0.7	-0.7	-0.4	13.4
0.5	-0.78	0.40	-0.09	0.04	0.00	0.00	-0.6	1.0			
0.25	-0.91	0.47	-0.05	0.05	0.00	0.02	0.7	1.8			
Soil	-0.05	0.10	-0.07	0.08							

[a] Temperature values shown in this table were used to prepare linear regression calibration relationships, as detailed in Table 4-3.

Table 4-2a. Results of April 1994 Temperature Water Bath Calibrations

Level (m)	(°C)	1	2	3	4	5	6	7	8	Mean	Std Dev
24	Standard	49.55	35.75	29.00	22.25	13.77	8.47	2.04	0.01		
	Sensor	48.00	34.58	28.07	21.50	13.50	8.07	1.77	-0.22		
	Difference	-1.55	-1.17	-0.93	-0.75	-0.27	-0.40	-0.27	-0.23	-0.69	0.49
16	Standard	49.55	35.75	29.00	22.25	13.77	8.47	2.04	0.01		
	Sensor	47.77	34.52	28.02	21.49	13.33	8.21	2.18	-0.01		
	Difference	-1.78	-1.23	-0.98	-0.76	-0.44	-0.26	0.14	-0.02	-0.67	0.65
8	Standard	49.55	35.75	29.00	22.25	13.77	8.47	2.04	0.01		
	Sensor	48.30	34.92	28.47	21.90	13.82	8.70	2.48	0.50		
	Difference	-1.25	-0.83	-0.53	-0.35	0.05	0.23	0.44	0.49	-0.22	0.63
4	Standard	49.55	35.75	29.00	22.25	13.77	8.47	2.04	0.01		
	Sensor	47.87	34.58	28.07	21.52	13.44	8.29	2.06	0.09		
	Difference	-1.68	-1.17	-0.93	-0.73	-0.33	-0.18	0.02	0.08	-0.62	0.62
2	Standard	49.55	35.75	29.00	22.25	13.77	8.47	2.04	0.01		
	Sensor	48.13	34.68	28.18	21.58	13.52	8.39	2.15	0.15		
	Difference	-1.42	-1.07	-0.82	-0.67	-0.25	-0.08	0.11	0.14	-0.51	0.58
1	Standard	49.55	35.75	29.00	22.25	13.77	8.47	2.04	0.01		
	Sensor	48.00	34.65	28.12	21.53	13.35	8.21	1.94	0.01		
	Difference	-1.55	-1.10	-0.88	-0.72	-0.42	-0.26	-0.10	0.00	-0.63	0.53
0.5	Standard	49.55	35.75	29.00	22.25	13.77	8.47	2.04	0.01		
	Sensor	48.03	34.62	28.04	21.44	13.21	8.03	1.76	-0.23		
	Difference	-1.52	-1.13	-0.96	-0.81	-0.56	-0.44	-0.28	-0.24	-0.74	0.45
0.25	Standard	49.55	35.75	29.00	22.25	13.77	8.47	2.04	0.01		
	Sensor	47.93	34.39	27.85	21.28	13.09	7.95	1.71	-0.25		
	Difference	-1.62	-1.36	-1.15	-0.97	-0.68	-0.52	-0.33	-0.26	-0.86	0.49
Soil	Standard	49.55	35.75	29.00	22.25	13.77	8.47	2.04	0.01		
	Sensor	49.17	35.62	28.94	22.17	13.77	8.49	1.94	-0.08		
	Difference	-0.38	-0.13	-0.06	-0.08	0.00	0.02	-0.10	-0.09	-0.10	0.12

NOTE: Data in this table were converted to calibration relationships detailed in Table 4-3.

Table 4-2b. Results of September 1994 Temperature Water Bath Calibrations

Before Program Change

Level (m)	(°C)	1	2	3	4	5	6	7	Mean	Std Dev
24	Standard	43.61	35.19	28.05	20.72	14.03	7.14	–0.01		
	Sensor	42.24	34.04	27.10	19.95	13.43	6.76	–0.09		
	Difference	–1.37	–1.15	–0.95	–0.77	–0.60	–0.38	–0.08	–0.76	0.45
16	Standard	43.61	35.19	28.05	20.72	14.03	7.14	–0.01		
	Sensor	42.08	33.97	27.06	20.00	13.53	6.88	0.02		
	Difference	–1.53	–1.22	–0.99	–0.72	–0.50	–0.26	0.03	–0.74	0.55
8	Standard	43.61	35.19	28.05	20.72	14.03	7.14	–0.01		
	Sensor	42.59	34.46	27.58	20.50	14.03	7.37	0.52		
	Difference	–1.02	–0.73	–0.47	–0.22	0.00	0.23	0.53	–0.24	0.54
4	Standard	43.61	35.19	28.05	20.72	14.03	7.14	–0.01		
	Sensor	42.16	34.00	27.14	20.07	13.63	6.94	0.17		
	Difference	–1.45	–1.19	–0.91	–0.65	–0.40	–0.20	0.18	–0.66	0.57
2	Standard	43.61	35.19	28.05	20.72	14.03	7.14	–0.01		
	Sensor	42.43	34.26	27.34	20.24	13.73	7.05	0.18		
	Difference	–1.18	–0.93	–0.71	–0.48	–0.30	–0.09	0.19	–0.50	0.48
1	Standard	43.61	35.19	28.05	20.72	14.03	7.14	–0.01		
	Sensor	42.30	34.11	27.18	20.06	13.58	6.90	0.02		
	Difference	–1.31	–1.08	–0.87	–0.66	–0.45	–0.24	0.03	–0.65	0.47
0.5	Standard	43.61	35.19	28.05	20.72	14.03	7.14	–0.01		
	Sensor	42.28	34.06	27.09	19.94	13.42	6.70	–0.20		
	Difference	–1.33	–1.13	–0.96	–0.78	–0.61	–0.44	–0.19	–0.78	0.40
0.25	Standard	43.61	35.19	28.05	20.72	14.03	7.14	–0.01		
	Sensor	42.03	33.88	26.94	19.81	13.32	6.63	–0.22		
	Difference	–1.58	–1.31	–1.11	–0.91	–0.71	–0.51	–0.21	–0.91	0.47
Soil	Standard	43.61	35.19	28.05	20.72	14.03	7.14	–0.01		
	Sensor	43.46	35.11	27.89	20.65	14.06	7.13	0.11		
	Difference	–0.15	–0.08	–0.16	–0.07	0.03	–0.01	0.12	–0.05	0.10

NOTE: Data in this table were converted to calibration relationships detailed in Table 4-3.

Table 4-2c. Results of September 1994 Temperature Water Bath Calibrations

After Program Change

Level (m)	(°C)	1	2	3	4	5	6	7	Mean	Std Dev
24	Standard	43.03	35.49	28.54	21.47	14.42	7.32	0.20		
	Sensor	42.82	35.33	28.37	21.32	14.26	7.17	0.08		
	Difference	-0.21	-0.16	-0.17	-0.15	-0.16	-0.15	-0.12	-0.16	0.03
16	Standard	43.03	35.49	28.54	21.47	14.42	7.32	0.20		
	Sensor	42.75	35.26	28.37	21.40	14.39	7.36	0.31		
	Difference	-0.28	-0.23	-0.17	-0.07	-0.03	0.04	0.11	-0.09	0.14
8	Standard	43.03	35.49	28.54	21.47	14.42	7.32	0.20		
	Sensor	43.40	35.90	29.02	22.00	14.99	8.01	0.93		
	Difference	0.37	0.41	0.48	0.53	0.57	0.69	0.73	0.54	0.13
4	Standard	43.03	35.49	28.54	21.47	14.42	7.32	0.20		
	Sensor	42.54	35.04	28.18	21.20	14.21	7.29	0.21		
	Difference	-0.49	-0.45	-0.36	-0.27	-0.21	-0.03	0.01	-0.26	0.19
2	Standard	43.03	35.49	28.54	21.47	14.42	7.32	0.20		
	Sensor	42.74	35.22	28.32	21.29	14.28	7.20	0.17		
	Difference	-0.29	-0.27	-0.22	-0.18	-0.14	-0.12	-0.03	-0.18	0.09
1	Standard	43.03	35.49	28.54	21.47	14.42	7.32	0.20		
	Sensor	42.87	35.33	28.44	21.41	14.36	7.33	0.34		
	Difference	-0.16	-0.16	-0.10	-0.06	-0.06	0.01	0.14	-0.06	0.11
0.5	Standard	43.03	35.49	28.54	21.47	14.42	7.32	0.20		
	Sensor	43.00	35.41	28.45	21.35	14.32	7.17	0.13		
	Difference	-0.03	-0.08	-0.09	-0.12	-0.10	-0.15	-0.07	-0.09	0.04
0.25	Standard	43.03	35.49	28.54	21.47	14.42	7.32	0.20		
	Sensor	42.93	35.39	28.48	21.40	14.35	7.28	0.26		
	Difference	-0.10	-0.10	-0.06	-0.07	-0.07	-0.04	0.06	-0.05	0.05
Soil	Standard	43.03	35.49	28.54	21.47	14.42	7.32	0.20		
	Sensor	42.94	35.39	28.34	21.39	14.43	7.34	0.17		
	Difference	-0.09	-0.10	-0.20	-0.08	0.01	0.02	-0.03	-0.07	0.08

NOTE: Data in this table were converted to calibration relationships detailed in Table 4-3.

Table 4-3a
Calibration of Thermometers versus HP Quartz Thermometer
4-5 April 1994

LINEAR REGRESSION
SENSOR = M*QUARTZ + B

TO CORRECT SENSOR
TCORR = (SENSOR – B)/M

CALIBRATION DATE: 4/5/94

Level (m)	M	B	R^2	1/M	–B/M
24	0.9738	–0.162	0.999962	1.0269	0.167
16	0.9636	0.069	0.999985	1.0378	–0.072
8	0.9643	0.501	0.999995	1.0371	–0.520
4	0 9641	0.104	0.999997	1.0372	–0.108
2	0.9665	0.160	0.999991	1.0347	–0.166
1	0.9683	0.003	0.999998	1.0328	–0.004
0.5	0.9729	–0.207	0.999998	1.0279	0.213
0.25	0.9698	–0.267	0.999996	1.0311	0.275
Soil	0.9969	–0.030	0.999981	1.0032	0.030

Table 4-3b
Calibration of Thermometers versus HP Quartz Thermometer
September 20, 1994

LINEAR REGRESSION
SENSOR = M*QUARTZ + B

TO CORRECT SENSOR
TCORR = (SENSOR – B)/M

CALIBRATION DATE: 09/20/94

Before Program Change

Level (m)	M	B	R^2	1/M	–B/M
24	0.9727	–0.166	0.999991	1.0281	0.171
16	0.9660	–0.008	0.999999	1.0352	0.009
8	0.9646	0.508	0.999999	1.0367	–0.527
4	0.9629	0.124	0.999995	1.0385	–0.128
2	0.9687	0.161	0.999999	1.0323	–0.166
1	0.9676	0.015	1.000000	1.0335	–0.015
0.5	0.9723	–0.210	1.000000	1.0284	0.216
0.25	0.9674	–0.237	0.999998	1.0336	0.245
Soil	0.9956	0.059	0.999988	1.0044	–0.059

After Program Change

Level (m)	M	B	R^2	1/M	–B/M
24	0.9996	–0.134	0.999999	1.0004	0.134
16	0.9919	0.101	0.999999	1.0081	–0.102
8	0.9906	0.737	0.999999	1.0095	–0.744
4	0.9868	0.019	0.999995	1.0133	–0.019
2	0.9935	–0.045	0.999999	1.0065	0.046
1	0.9908	0.113	0.999999	1.0093	–0.114
0.5	0.9987	–0.093	0.999999	1.0013	0.093
0.25	0.9943	0.038	1.000000	1.0057	–0.038
Soil	0.9980	–0.006	0.999986	1.0020	0.006

Table 4-4a. Results of April 1994 Wind Speed Calibrations

Level (m)	(mps)	1	2	3	4	5	Mean	Std Dev
24	Target	0	1.47	2.94	8.82	17.64		
	Found	0	1.46	2.94	8.82	17.64		
	Difference	0	-0.01	0	0	0	0	0
16	Target	0	1.47	2.94	8.82	17.64		
	Found	0	1.47	2.94	8.82	17.64		
	Difference	0	0	0	0	0	0	0
8	Target	0	1.65	2.94	8.82	17.64		
	Found	0	1.64	2.95	8.82	17.64		
	Difference	0	-0.01	0.01	0	0	0	0.01
4	Target	0	1.52	2.94	8.82	17.64		
	Found	0	1.52	2.95	8.82	17.64		
	Difference	0	0	0.01	0	0	0	0
2	Target	0	1.57	2.94	8.82	17.64		
	Found	0	1.57	2.94	8.82	17.64		
	Difference	0	0	0	0	0	0	0
1	Target	0	1.57	2.94	8.82	17.64		
	Found	0	1.57	2.94	8.82	17.64		
	Difference	0	0	0	0	0	0	0
0.5	Target	0	1.57	2.94	8.82	17.64		
	Found	0	1.57	2.94	8.82	17.64		
	Difference	0	0	0	0	0	0	0
0.25	Target	0	1.50	2.94	8.82	17.64		
	Found	0	1.50	2.94	8.82	17.64		
	Difference	0	0	0	0	0	0	0

Table 4-4b. Results of September 1994 Wind Speed Calibrations

Level (m)	(mps)	1	2	3	4	5	Mean	Std Dev
24	Target	0	1.59	2.94	8.82	17.64		
	Found	0	1.59	2.94	8.82	17.64		
	Difference	0	0	0	0	0	0	0
16	Target	0	1.62	2.94	8.82	17.64		
	Found	0	1.62	2.94	8.82	17.64		
	Difference	0	0	0	0	0	0	0
8	Target	0	1.49	2.94	8.82	17.64		
	Found	0	1.50	2.94	8.82	17.64		
	Difference	0	0.01	0	0	0	0.003	0.005
4	Target	0	1.60	2.94	8.82	17.64		
	Found	0	1.62	2.94	8.82	17.64		
	Difference	0	0.02	0	0	0	0.005	0.010
2	Target	0	1.47	2.94	8.82	17.64		
	Found	0	1.47	2.94	8.82	17.64		
	Difference	0	0	0	0	0	0	0
1	Target	0	1.51	2.94	8.82	17.64		
	Found	0	1.52	2.94	8.82	17.64		
	Difference	0	0.01	0	0	0	0.003	0.005
0.5	Target	0	1.47	2.94	8.82	17.64		
	Found	0	1.47	2.94	8.82	17.64		
	Difference	0	0	0	0	0	0	0
0.25	Target	0	1.52	2.94	8.82	17.64		
	Found	0	1.53	2.93	8.82	17.64		
	Difference	0	0.01	−0.01	0	0	0	0.008

Table 4-5a. Results of April 1994 Wind Direction Calibrations

Level	(Degrees)				
(m)	Target	Found	Difference	Mean	Std Dev
24	249.1	248.6	-0.5		
	69.1	68.3	-0.8		
	317.6	318.5	0.9		
	137.6	135.1	-2.5	-0.7	1.4
16	249.1	250.6	1.5		
	69.1	69.9	0.8		
	317.6	319.1	1.5		
	137.6	137.3	-0.3	0.9	0.9
8	249.1	251.8	2.7		
	69.1	71.4	2.3		
	317.6	320.2	2.6		
	137.6	138.2	0.6	2.1	1.0
4	249.1	254.6	5.5		
	69.1	74.3	5.2		
	317.6	322.4	4.8		
	137.6	139.6	2.0	4.4	1.6
2	249.1	250.6	1.5		
	69.1	69.3	0.2		
	317.6	317.0	-0.6		
	137.6	134.6	-3.0	-0.5	1.9
1	249.1	251.3	2.2		
	69.1	70.6	1.5		
	317.6	317.6	0.0		
	137.6	140.5	2.9	1.7	1.2
0.5	249.1	249.9	0.8		
	69.1	68.2	-0.9		
	317.6	317.4	-0.2		
	137.6	135.9	-1.7	-0.5	1.1
0.25	249.1	252.0	2.9		
	69.1	69.6	0.5		
	317.6	318.4	0.8		
	137.6	137.4	-0.2	1.0	1.3
4*	249.1	248.6	-0.5		
	69.1	69.5	0.4	-0.1	0.6

* After adjustment.

Table 4-5b. Results of September 1994 Wind Direction Calibrations

Level	(Degrees)				
(m)	Target	Found	Difference	Mean	Std Dev
24	249.1	249.0	-0.1		
	69.1	67.1	-2.0		
	317.6	318.1	0.5		
	137.6	134.8	-2.8	-1.1	1.6
16	249.1	251.6	2.5		
	69.1	70.2	1.1		
	317.6	320.4	2.8		
	137.6	136.8	-0.8	1.4	1.6
8	249.1	251.2	2.1		
	69.1	71.5	2.4		
	317.6	320.0	2.4		
	137.6	137.8	0.2	1.8	1.1
4	249.1	250.3	1.2		
	69.1	68.6	-0.5		
	317.6	317.8	0.2		
	137.6	137.1	-0.5	0.1	0.8
2	249.1	248.0	-1.1		
	69.1	68.0	-1.1		
	317.6	315.6	-2.0		
	137.6	133.1	-4.5	-2.2	1.6
1	249.1	249.6	0.5		
	69.1	69.8	0.7		
	317.6	318.0	0.4		
	137.6	136.8	-0.8	0.2	0.7
0.5	249.1	249.5	0.4		
	69.1	69.0	-0.1		
	317.6	316.9	-0.7		
	137.6	135.7	-1.9	-0.6	1.0
0.25	249.1	251.4	2.3		
	69.1	69.3	0.2		
	317.6	319.4	1.8		
	137.6	136.0	-1.6	0.7	1.8

Table 4-6a
Results of April 1994 Checks on Relative Humidity, Barometric Pressure and Solar Radiation

NOTE: There were some problems in using saturated salts to check the relative humidity sensors during the April, 1994 calibration checks. While readings were within 5% of the expected value, some readings appeared to be affected by not having a good seal between the sensor and the calibrator. The ambient reading for the three levels (16m, 4m, and 1m) were very close over the range of 8% to 30% seen during the checks.

Barometric Pressure

Level (m)	Altimeter (mb)	Sensor (mb)	Difference (mb)	Mean (mb)
1	905.0	903.8	-1.2	
	908.0	906.0	-2.0	-1.6

Solar Radiation

Level (m)	Pyranometer (W/m^2)	Sensor (W/m^2)	Difference (W/m^2)	Mean (W/m^2)
2	919.4	931.6	12.2	
	828.1	890.8	12.7	
	371.9	406.1	34.2	
	243.8	216.9	-26.9	32.2

Table 4-6b
Results of September 1994 Checks on Relative Humidity, Barometric Pressure and Solar Radiation

Relative Humidity

Level	Altimeter					
(m)	Dry Bulb C	Wet Bulb C	RH %	Sensor %	Difference	Mean
16	29.4	25.0	22.7	25.0	2.3	
	29.0	25.0	23.0	25.0	2.0	2.2
4	29.0	15.8	24.7	24.8	0.1	0.1
1	30.0	16.3	24.0	23.3	−0.7	−0.7

Barometric Pressure

Level	Altimeter	Sensor	Difference	Mean
(m)	(mb)	(mb)	(mb)	(mb)
1	908.0	907.6	−0.4	−0.4

Solar Radiation

Level	Pyranometer	Sensor	Difference	Mean
(m)	(W/m^2)	(W/m^2)	(W/m^2)	(W/m^2)
2	793.3	806.7	13.4	13.4

5.0 MEASUREMENT RESULTS

Measurement results are available on disk for both the 15 minute and hourly data sets (refer to Section 1.0). A summary of the contents of data on disk are provided in Table 5-1. Summary statistics for wind speed and temperature are provided in Tables 5-2 and 5-3, respectively. Two types of wind direction are provided, unit vector and resultant vector (named just "vector wind direction"). The vector wind direction is wind speed weighted while the unit vector calculation uses a wind speed of one (unity). Relative humidity, solar radiation and barometric pressure summaries are provided in Table 5-4.

For convenience in analysis of overall temporal trends, time series plots are provided in Appendix A. For measurements made at multiple levels, the two meter and eight meter levels are presented. The two meter data are of particular interest for very low level dispersion of heavy gases, while eight meter data provides added information for more general interest.

Monthly wind roses are provided in graphic form in Appendix B and in tabular form (wind frequency distributions) in Appendix C. In addition to distributions based on total hours, distributions are provided for morning transition (0600-1000), late midday (1000-1600), evening transition (1600-2000), nighttime (2000-0600), and for Pasquill-Gifford stability classes A-F.

Table 5-1 Data Base Description

Note! The 15 minute data base contains variables 1-57 only.

Order	Variable	Units	Description
1	Date	mm/dd/yy	Date
2	Starthr	PST	Pacific Standard Time
3	swsqtmps	mps	scalar wind speed, quarter meter level
4	unwdqtdg	degrees	unit vector wind direction, quarter meter level
5	ytdsqtdg	degrees	standard deviation (sigma theta) of wind direction, quarter meter
6	swshfmps	mps	scalar wind speed, half meter level
7	unwdhfdg	degrees	unit vector wind direction, half meter level
8	ytdshfdg	degrees	standard deviation (sigma theta) of wind direction, half meter level
9	sws01mps	mps	scalar wind speed, 1 meter level
10	unwd01dg	degrees	unit vector wind direction, 1 meter level
11	ytds01dg	degrees	standard deviation (sigma theta) of wind direction, 1 meter level
12	sws02mps	mps	scalar wind speed, 2 meter level
13	unwd02dg	degrees	unit vector wind direction, 2 meter level
14	ytds02dg	degrees	standard deviation (sigma theta) of wind direction, 2 meter level
15	sws04mps	mps	scalar wind speed, 4 meter level
16	unwd04dg	degrees	unit vector wind direction, 4 meter level
17	ytds04dg	degrees	standard deviation (sigma theta) of wind direction, 4 meter level
18	sws08mps	mps	scalar wind speed, 8 meter level
19	unw08fdg	degrees	unit vector wind direction, 8 meter level
20	ytds08dg	degrees	standard deviation (sigma theta) of wind direction, 8 meter level
21	sws16mps	mps	scalar wind speed, 16 meter level
22	unw16tdg	degrees	unit vector wind direction, 16 meter level
23	ytds16dg	degrees	standard deviation (sigma theta) of wind direction, 16 meter level
24	sws24mps	mps	scalar wind speed, 24 meter level
25	unw24fdg	degrees	unit vector wind direction, 24 meter level
26	ytds24dg	degrees	standard deviation (sigma theta) of wind direction, 24 meter level
27	vwsqtmps	mps	vector wind speed, quarter meter level
28	vwdqtdg	degrees	vector wind direction, quarter meter level
29	vwshfmps	mps	vector wind speed, half meter level
30	vwdhfdg	degrees	vector wind direction, half meter level
31	vws01mps	mps	vector wind speed, 1 meter level
32	vwd01dg	degrees	vector wind direction, 1 meter level
33	vws02mps	mps	vector wind speed, 2 meter level
34	vwd02dg	degrees	vector wind direction, 2 meter level
35	vws04mps	mps	vector wind speed, 4 meter level
36	vwd04dg	degrees	vector wind direction, 4 meter level
37	vws08mps	mps	vector wind speed, 8 meter level
38	vwd08dg	degrees	vector wind direction, 8 meter level
39	vws16mps	mps	vector wind speed, 16 meter level
40	vwd16dg	degrees	vector wind direction, 16 meter level
41	vws24mps	mps	vector wind speed, 24 meter level
42	vwd24dg	degrees	vector wind direction, 24 meter level

Table 5-1 Data Base Description (continued)

Order	Variable	Units	Description
43	tmpqtdgc	degrees C	ambient temperature, quarter meter level
44	tmphfdgc	degrees C	ambient temperature, half meter level
45	tmp 1 dgc	degrees C	ambient temperature, 1 meter level
46	tmp2dgc	degrees C	ambient temperature, 2 meter level
47	tmp4dgc	degrees C	ambient temperature, 4 meter level
48	tmp8dgc	degrees C	ambient temperature, 8 meter level
49	tmp16dgc	degrees C	ambient temperature, 16 meter level
50	tmp24dgc	degrees C	ambient temperature, 24 meter level
51	rhi01pc	percent	relative humidity, 1 meter level
52	rhi04pc	percent	relative humidity, 4 meter level
53	rhi16pc	percent	relative humidity, 16 meter level
54	sradwm2	w/m2	solar radiation
55	nradwm2	w/m2	net radiation
56	stmpdgc	degrees C	soil temperature
57	bprmb	mb	barometric pressure
58	rinum 1	----	Richardson number, quarter meter to 2 meter layer
59	rinum 2	----	Richardson number, half meter to 4 meter layer
60	rinum 3	----	Richardson number, 2 meter to 16 meter layer
61	monin 1	----	Monin-Obukhov Length, quarter meter to 2 meter layer
62	monin 2	----	Monin-Obukhov Length, half meter to 4 meter layer
63	monin 3	----	Monin-Obukhov Length, 2 meter to 16 meter layer
64	stbsig8	----	stability class based on sigma theta at 8 m

Table 5-2 Summary Wind Speed Data - January - December, 1994

Month	Tower Height (m)	Monthly Mean	Monthly Max	Monthly Min	Mean Daily Max	Mean Daily Min	% Data Recovery
January	24	1.79	13.60	0.07	4.88	0.63	78.0
	16	1.83	13.06	0.03	4.75	0.63	78.0
	8	1.67	12.27	0.08	4.28	0.58	78.0
	4	1.55	11.64	0.08	3.94	0.57	78.0
	2	1.40	10.80	0.26	3.54	0.59	78.0
	1	1.22	10.03	0.09	3.19	0.46	78.0
	0.5	1.12	9.37	0.24	2.89	0.50	78.0
	0.25	1.01	8.83	0.08	2.65	0.40	78.0
February	24	2.47	11.30	0.10	5.57	0.84	85.4
	16	2.40	10.81	0.06	5.24	0.84	85.4
	8	2.19	10.18	0.18	4.74	0.78	85.4
	4	2.05	9.69	0.21	4.42	0.77	85.4
	2	1.88	9.06	0.31	4.04	0.75	85.4
	1	1.69	8.49	0.12	3.71	0.61	85.4
	0.5	1.57	7.92	0.28	3.43	0.59	85.4
	0.25	1.44	7.51	0.05	3.22	0.47	85.4
March	24	3.33	19.50	0.20	7.49	0.81	100.0
	16	3.21	18.80	0.20	7.18	0.78	100.0
	8	2.97	17.50	0.30	6.66	0.73	100.0
	4	2.80	16.80	0.30	6.30	0.75	100.0
	2	2.58	15.90	0.40	5.86	0.73	100.0
	1	2.36	14.80	0.30	5.44	0.62	100.0
	0.5	2.18	13.60	0.30	5.00	0.62	100.0
	0.25	2.03	12.70	0.20	4.70	0.52	100.0
April	24	3.71	16.46	0.27	8.36	0.83	99.9
	16	3.58	15.93	0.26	8.00	0.80	99.9
	8	3.32	14.88	0.26	7.48	0.74	99.9
	4	3.11	14.35	0.32	7.13	0.73	99.4
	2	2.92	13.67	0.39	6.73	0.72	99.6
	1	2.68	12.71	0.18	6.27	0.66	99.6
	0.5	2.48	11.73	0.30	5.82	0.62	99.6
	0.25	2.30	10.96	0.18	5.48	0.49	99.6
May	24	3.94	15.91	0.25	8.63	0.72	96.9
	16	3.78	15.38	0.16	8.31	0.71	96.9
	8	3.52	14.27	0.25	7.76	0.69	96.9
	4	3.31	13.69	0.19	7.42	0.69	96.9
	2	3.09	12.94	0.09	7.03	0.65	96.9
	1	2.85	12.04	0.09	6.51	0.59	96.9
	0.5	2.66	11.11	0.02	6.07	0.58	96.9
	0.25	2.48	10.34	0.24	5.73	0.50	96.9
June	24	4.44	14.96	0.00	9.38	0.69	100.0
	16	4.28	14.63	0.15	9.12	0.73	100.0
	8	3.96	13.79	0.19	8.56	0.68	100.0
	4	3.77	13.26	0.24	8.25	0.69	100.0
	2	3.52	12.49	0.25	7.79	0.68	100.0
	1	3.24	11.60	0.22	7.25	0.63	100.0
	0.5	2.97	10.73	0.19	6.69	0.60	100.0
	0.25	2.75	10.01	0.18	6.27	0.51	100.0

Table 5-2 Summary Wind Speed Data - January - December, 1994 Cont.

Month	Tower Height (m)	Monthly Mean	Monthly Max	Monthly Min	Mean Daily Max	Mean Daily Min	% Data Recovery
July	24	3.58	12.70	0.10	8.35	0.39	98.5
	16	3.47	12.40	0.20	8.10	0.59	100.0
	8	3.22	11.70	0.20	7.55	0.58	100.0
	4	3.05	11.30	0.30	7.25	0.60	100.0
	2	2.83	10.70	0.30	6.87	0.59	100.0
	1	2.60	10.00	0.30	6.40	0.53	100.0
	0.5	2.40	9.20	0.30	5.92	0.51	100.0
	0.25	2.22	8.60	0.20	5.56	0.40	100.0
August	24	3.68	12.50	0.03	8.63	0.37	98.3
	16	3.57	12.20	0.10	8.31	0.56	100.0
	8	3.31	11.50	0.10	7.81	0.57	100.0
	4	3.14	11.10	0.20	7.53	0.60	100.0
	2	2.93	10.50	0.30	7.12	0.59	100.0
	1	2.69	9.80	0.20	6.62	0.54	100.0
	0.5	2.49	9.00	0.20	6.18	0.52	100.0
	0.25	2.31	8.50	0.20	5.78	0.45	100.0
September	24	3.34	15.62	0.01	7.54	0.51	98.1
	16	3.18	15.26	0.00	7.27	0.47	99.3
	8	2.87	14.35	0.00	6.79	0.29	99.2
	4	2.86	13.81	0.29	6.50	0.57	99.7
	2	2.65	13.07	0.34	6.14	0.59	99.7
	1	2.42	12.18	0.29	5.74	0.53	99.7
	0.5	2.23	11.24	0.34	5.32	0.54	99.7
	0.25	2.05	10.54	0.07	5.00	0.40	99.7
October	24	2.54	14.39	0.22	6.35	0.60	100.0
	16	2.44	13.94	0.14	6.07	0.58	100.0
	8	2.08	12.92	0.00	5.54	0.22	98.5
	4	2.14	12.38	0.15	5.19	0.60	100.0
	2	1.97	11.59	0.29	4.75	0.64	100.0
	1	1.78	10.90	0.19	4.42	0.50	100.0
	0.5	1.64	10.03	0.29	4.05	0.55	100.0
	0.25	1.51	9.42	0.19	3.80	0.41	100.0
November	24	2.94	17.08	0.22	6.39	0.77	100.0
	16	2.82	16.37	0.20	6.11	0.75	100.0
	8	2.56	14.97	0.05	5.57	0.58	99.7
	4	2.42	14.27	0.01	5.21	0.58	99.9
	2	2.24	13.31	0.22	4.75	0.69	100.0
	1	1.96	12.48	0.02	4.36	0.42	99.4
	0.5	1.86	11.41	0.25	4.05	0.55	100.0
	0.25	1.73	10.70	0.09	3.80	0.45	100.0
December	24	2.17	8.27	0.14	5.12	0.65	64.8
	16	2.07	8.10	0.20	4.81	0.63	64.8
	8	1.89	7.71	0.18	4.35	0.58	64.8
	4	1.77	7.40	0.21	4.00	0.61	64.8
	2	1.60	6.84	0.20	3.59	0.58	64.8
	1	1.45	6.41	0.11	3.28	0.53	64.8
	0.5	1.32	5.96	0.10	3.03	0.45	64.8
	0.25	1.21	5.57	0.06	2.82	0.36	64.8

Table 5-3 Summary Temperature Data - January - December, 1994

Month	Tower Height (m)	Monthly Mean	Monthly Max	Monthly Min	Mean Daily Max	Mean Daily Min	% Data Recovery
January	24						0.0
	16	4.72	21.16	-9.55	14.75	-3.35	78.0
	8	4.42	21.56	-9.88	15.11	-4.04	78.0
	4	3.33	20.84	-11.19	14.37	-5.18	78.0
	2	3.02	20.77	-11.25	14.35	-5.45	78.0
	1	2.71	20.43	-11.32	14.24	-5.65	78.0
	0.5	2.64	20.21	-11.11	14.13	-5.55	78.0
	0.25	2.33	19.81	-11.21	13.95	-5.75	78.0
	soil						
February	24	6.56	23.36	-7.31	13.50	0	52.1
	16	6.59	23.60	-7.48	13.75	-0.18	52.1
	8	5.76	23.50	-9.72	12.66	-0.25	75.1
	4	5.10	23.37	-10.92	12.20	-1.04	75.1
	2	4.98	23.39	-10.94	12.26	-1.16	75.1
	1	4.81	23.52	-11.02	12.23	-1.28	75.1
	0.5	5.89	23.57	-10.81	13.34	0.60	50.7
	0.25	4.62	23.66	-10.94	12.16	-1.32	75.1
	soil						
March	24	12.11	22.33	0.86	20.69	4.99	18.8
	16	12.91	26.04	0.60	20.09	5.58	99.9
	8	12.37	26.16	-0.72	20.19	4.56	99.9
	4	12.01	26.12	-1.35	20.21	3.95	99.9
	2	11.90	26.31	-1.54	20.46	3.66	99.9
	1	11.78	26.59	-1.73	20.69	3.42	99.9
	0.5	11.70	26.67	-1.76	20.78	3.34	99.9
	0.25	11.68	27.01	-1.71	21.03	3.30	99.9
	soil						
April	24	15.29	30.73	1.26	21.33	8.22	84.7
	16	14.96	30.94	1.07	21.43	7.32	99.3
	8	14.72	31.24	0.34	21.67	6.59	99.3
	4	14.23	30.60	-0.69	21.45	5.82	99.3
	2	14.43	31.87	-0.92	22.08	5.72	99.3
	1	14.35	32.28	-1.11	22.41	5.53	99.3
	0.5	14.36	32.60	-1.14	22.67	5.50	99.3
	0.25	14.39	33.15	-1.14	23.08	5.46	99.3
	soil						
May	24	19.96	33.08	4.99	25.71	12.19	96.9
	16	19.86	33.30	4.22	25.88	11.70	96.9
	8	19.70	33.58	3.28	26.10	10.95	96.9
	4	19.24	33.74	2.32	25.88	10.21	96.9
	2	19.49	34.18	1.77	26.57	10.05	96.9
	1	19.47	34.68	1.69	26.95	9.83	96.9
	0.5	19.51	35.04	1.73	27.26	9.77	96.9
	0.25	19.59	35.58	1.78	27.76	9.67	96.9
	soil						

Table 5-3 Summary Temperature Data - January - December, 1994 Cont.

Month	Tower Height (m)	Monthly Mean	Monthly Max	Monthly Min	Mean Daily Max	Mean Daily Min	% Data Recovery
June	24	27.59	40.41	11.73	34.57	17.87	99.9
	16	27.37	40.63	11.03	34.76	17.13	99.9
	8	27.05	40.85	10.35	35.00	16.29	99.9
	4	26.72	41.00	8.94	35.12	15.57	99.9
	2	26.59	41.42	7.78	35.48	15.01	99.9
	1	26.47	41.77	7.40	35.85	14.64	99.9
	0.5	26.46	42.04	7.33	36.13	14.52	99.9
	0.25	26.47	42.49	7.25	36.59	14.38	99.9
	soil						
July	24	29.72	38.99	16.50	36.27	20.59	99.9
	16	29.49	39.24	15.98	36.48	19.87	99.9
	8	29.12	39.55	14.88	36.74	18.95	99.9
	4	28.77	39.72	13.56	36.87	18.20	99.9
	2	28.66	40.21	12.29	37.26	17.69	99.9
	1	28.54	40.69	12.00	37.64	17.3	99.9
	0.5	28.53	41.04	11.98	37.97	17.19	99.9
	0.25	28.55	41.58	11.97	38.47	17.01	99.9
	soil						
August	24	28.90	39.49	12.30	35.71	19.86	100.0
	16	28.70	39.69	11.13	35.91	19.31	100.0
	8	28.38	39.88	9.17	36.18	18.52	100.0
	4	28.09	39.98	8.44	36.31	17.91	100.0
	2	28.00	40.32	8.13	36.70	17.51	100.0
	1	27.88	40.67	8.04	37.09	17.18	100.0
	0.5	27.87	41.03	7.98	37.41	17.08	100.0
	0.25	27.88	41.65	7.98	37.91	16.94	100.0
	soil						
September	24	22.86	34.70	7.89	30.22	13.95	98.6
	16	22.59	34.91	7.36	30.36	13.24	98.6
	8	22.19	35.17	6.86	30.58	12.26	98.6
	4	21.83	35.29	6.26	30.72	11.57	98.6
	2	21.61	35.72	5.57	30.99	11.15	98.6
	1	21.45	36.11	5.19	31.33	10.88	98.6
	0.5	21.38	36.45	5.12	31.54	10.79	98.6
	0.25	21.34	36.96	4.99	31.93	10.67	98.6
	soil						
October	24	14.55	28.22	-0.10	22.38	6.50	100.0
	16	14.21	28.27	-1.71	22.47	5.74	100.0
	8	13.65	28.36	-2.81	22.60	4.72	100.0
	4	13.23	28.59	-3.22	22.70	4.09	100.0
	2	12.94	28.79	-3.71	22.83	3.60	100.0
	1	12.75	29.19	-3.98	23.05	3.29	100.0
	0.5	12.68	29.38	-3.92	23.18	3.24	100.0
	0.25	12.62	29.71	-3.93	23.44	3.12	100.0
	soil						

Table 5-3 Summary Temperature Data - January - December, 1994 Cont.

Month	Tower Height (m)	Monthly Mean	Monthly Max	Monthly Min	Mean Daily Max	Mean Daily Min	% Data Recovery
November	24	4.55	23.42	-9.43	11.47	-1.67	100.0
	16	4.27	23.45	-10.90	11.52	-2.28	100.0
	8	3.79	23.58	-11.91	11.56	-3.25	100.0
	4	3.43	23.65	-12.72	11.56	-3.86	100.0
	2	3.21	23.71	-13.10	11.62	-4.15	100.0
	1	2.99	23.81	-13.49	11.66	-4.44	100.0
	0.5	2.92	23.84	-13.59	11.65	-4.44	100.0
	0.25	2.81	23.88	-13.86	11.68	-4.54	100.0
	soil						
December	24	5.43	16.48	-6.15	11.92	0.47	64.8
	16	5.11	16.33	-7.13	11.89	-0.05	64.8
	8	4.55	15.91	-9.08	11.77	-0.93	64.8
	4	4.42	15.87	-9.38	11.90	-1.17	64.8
	2	4.23	15.69	-9.63	11.92	-1.48	64.8
	1	3.84	15.42	-10.17	11.72	-1.92	64.8
	0.5	3.69	15.27	-10.19	11.59	-1.99	64.8
	0.25	3.46	14.98	-10.40	11.43	-2.19	64.8
	soil						

Table 5-4 Summary of Relative Humidity, Radiation and Barometric Pressure - January through December, 1994

	January			February			March			April			May			June		
Relative Humidity (%)	16 m	4 m	1 m	16 m	4 m	1 m	16 m	4 m	1 m	16 m	4 m	1 m	16 m	4 m	1 m	16 m	4 m	1 m
Mean	42	45	47	49	52	55	33	35	35	31	32	32	27	28	27	13	13	12
Maximum	96	92	87	100	100	100	99	99	99	93	96	97	88	91	95	70	74	76
Minimum	8	8	9	7	7	7	7	7	7	6	6	6	2	2	2	3	2	2
Mean Daily Max	67	71	71	71	74	76	55	59	60	50	53	53	44	45	45	22	23	22
Mean Daily Min	19	20	20	28	29	31	16	16	15	16	16	15	14	14	13	7	6	6
Data Recovery (%)	78	78	78	85	85	85	100	100	100	99	100	100	97	97	97	100	100	100
Solar Radiation (W/m^2)																		
Mean			130			146			232			273			320			360
Maximum			629			783			938			1004			1113			1060
Minimum			0			0			0			0			0			0
Mean Daily Max			515			527			824			916			952			1008
Mean Daily Min			0			17			0			0			0			0
Data Recovery (%)			78			85			100			99			97			99
Net Radiation (W/m^2)																		
Mean			10			32			55			59			40			20
Maximum			179			335			454			364			359			356
Minimum			-60			-65			-66			-99			-74			-87
Mean Daily Max			154			205			310			309			255			226
Mean Daily Min			-42			-38			-51			-54			-52			-72
Data Recovery (%)			78			85			100			99			96			99
Atmospheric Pressure (mb)																		
Mean			914			910			908			905			904			904
Maximum			923			924			922			915			910			910
Minimum			901			843			894			894			895			895
Mean Daily Max			916			913			911			908			906			906
Mean Daily Min			911			905			905			903			902			902
Data Recovery (%)			78			85			100			100			97			100

Table 5-4 Summary of Relative Humidity, Radiation and Barometric Pressure - January through December, 1994 Con't.

	July			August			September			October			November			December		
Relative Humidity (%)	**16 m**	**4 m**	**1 m**	**16 m**	**4 m**	**1 m**	**16 m**	**4 m**	**1 m**	**16 m**	**4 m**	**1 m**	**16 m**	**4 m**	**1 m**	**16 m**	**4 m**	**1 m**
Mean	17	17	17	20	21	20	21	22	20	29	29	28	47	50	51	61	63	64
Maximum	83	88	95	87	88	90	71	80	85	73	69	71	100	100	100	100	100	100
Minimum	3	3	2	3	3	2	5	5	4	4	4	4	8	8	8	12	12	12
Mean Daily Max	27	28	28	31	32	31	33	33	31	44	42	40	69	72	72	79	81	81
Mean Daily Min	9	9	9	11	11	10	12	12	11	17	17	16	25	26	26	35	36	36
Data Recovery (%)	100	100	100	100	100	100	99	99	99	100	100	100	100	100	100	65	65	65
Solar Radiation (W/m^2)																		
Mean			337			302			253			196			139			104
Maximum			1072			1004			1001			804			727			566
Minimum			0			0			0			0			0			0
Mean Daily Max			983			941			846			719			578			438
Mean Daily Min			0			0			0			0			0			1
Data Recovery (%)			100			100			99			100			100			65
Net Radiation (W/m^2)																		
Mean			28						26			13			5			10
Maximum			324						288			256			285			298
Minimum			-83						-97			-88			-89			-80
Mean Daily Max			238						254			212			177			163
Mean Daily Min			-66						-77			-73			-64			-55
Data Recovery (%)			66						38			100			100			65
Atmospheric Pressure (mb)																		
Mean			905			906			907			906			908			909
Maximum			910			912			913			917			922			920
Minimum			898			899			900			888			894			902
Mean Daily Max			907			908			909			908			912			912
Mean Daily Min			903			903			905			903			905			907
Data Recovery (%)			100			100			100			100			100			65

6.0 STABILITY CALCULATIONS

Pasquill Gifford Stability Classes were calculated using the Yamartino Sigma Theta method (EPA, 1990) to look at diurnal stability trends at the STF. Tower data were also used to calculate Richardson Numbers (Ri) and corresponding Monin-Obukhov lengths (L) for 3 different height intervals, as described in the following paragraphs.

Richardson number (Ri) is defined according to equation 2-1,

$$Ri = \frac{g}{\theta}\left(\frac{\partial\theta}{\partial z}\right) \Big/ \left(\frac{\partial u}{\partial z}\right)^2 \qquad (2\text{-}1)$$

where,

g = 9.8 m/sec^2
θ = potential temperature (°K)
u = wind speed (mps)
z = height (m)

or, in the finite difference form, according to equation 2-2.

$$Ri = \frac{g}{\theta_1}\frac{(\theta_2 - \theta_1)}{(u_2 - u_1)^2}(z_2 - z_1) \qquad (2\text{-}2)$$

where,

θ_1, u_1 = potential temperature (°K) and wind speed (mps) at height z_1
θ_2, u_2 = potential temperature (°K) and wind speed (mps) at height z_2
z_1 = height of lower level
z_2 = height of upper level

Golder (1972) gives curves that relate Pasquill stability classes to the Monin-Obukhov length L and the roughness length z_0. Extrapolation of Golder's curves to z_0 = 0.2 mm, the approximate roughness length at the STF, gives the relationships shown in Table 6-1. Ri was calculated from profile laws given by Högström (1988) using 3 different tower intervals and used to calculate corresponding values of L. These may be used to assign stability classes according to Ri based on these three levels. Ri stability classes include the "extremely stable" G (class 7) category.

Table 6-1
Stability Classes Based on Monin-Obukhov Length (L) and Richardson Number (Ri)

Stability Class	L (m)	Ri (0.25 - 2.0 m)	Ri (0.5 - 4.0 m)	Ri (2.0 - 16.0 m)
A	$-5 \le L < 0$	$Ri \le -0.2$	$Ri \le -0.4$	$Ri \le -1.6$
B	$-10 \le L < -5$	$-0.2 < Ri \le -0.1$	$-0.4 < Ri \le -0.2$	$-1.6 < Ri \le -0.8$
C	$-20 \le L < -10$	$-0.1 < Ri \le -0.05$	$-0.2 < Ri \le -0.1$	$-0.8 < Ri \le -0.4$
D	$L < -20, L \ge +15$	$-0.05 < Ri \le +0.05$	$-0.1 < Ri$ +0.09	$-0.4 < Ri \le +0.2$
E	$+5 \le L < +15$	$+0.05 < Ri \le +0.12$	$+0.09 < Ri \le +0.18$	$+0.2 < Ri \le +0.28$
F	$+1.7 \le L < +5$	$+0.12 < Ri \le +0.21$	$+0.18 < Ri \le +0.26$	$+0.28 < Ri \le +0.315$
G	$0 \le L < +1.7$	$Ri > +0.21$	$Ri > +0.26$	$Ri > 0.315$

Tabulations of the Pasquill-Gifford stability classes estimated using the Yamartino Sigma Theta method, of Ri calculated from equation 2-1, and of value of L based on Högström (1988) profile laws, are provided in Appendix D. Values of L tabulated in Appendix D are given as $< 4z_1$ (where z_1 is the lower level) when $Ri > 0.25$. This was done to eliminate artificial values of L when Ri approaches its critical value, $Ri_c \sim 0.3385$. At supercritical values of Ri, stability suppresses turbulence to the point that turbulence is no longer the primary mechanism for transfer of heat and momentum, and profile laws are no longer valid.

Table 6-1 could be used to assign stability classes according to Ri and L. However, it should be noted that stability classes based on Ri are very susceptible to biases in temperature measurements at the two levels. Biases of the magnitude of those suspected in Table 4-2 could cause a reversal of the sign of the temperature gradient, and a corresponding change from Class 6 to Class 1, or vice versa, during low wind speeds. Appendix D includes tabulations of temperature differences between the two and sixteen meter tower levels as an aid to identify hours for which $\theta_2 - \theta_1$ in equation 2-2 may be close to an uncertainty level suggested by Table 4-2.

7.0 REFERENCES

Desert Research Institute and Western Research Institute, 1993: "Quality Assurance Project Plan Operation of the STF 24 Meter Meteorological Tower." DRI Document No. 94-3304.D2, Desert Research Institute, Reno, Nevada

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Golder, D. 1972: "Relations Among Stability Parameters in the Surface Layer." *Boundary Layer Meteorol.*, **3**, 47-58.

Högström, U., 1988: "Non-Dimensional Wind and Temperature Profiles in the Atmospheric Surface Layer: A Re-Evaluation." *Boundary Layer Meteorol.*, **42**, 55-78.

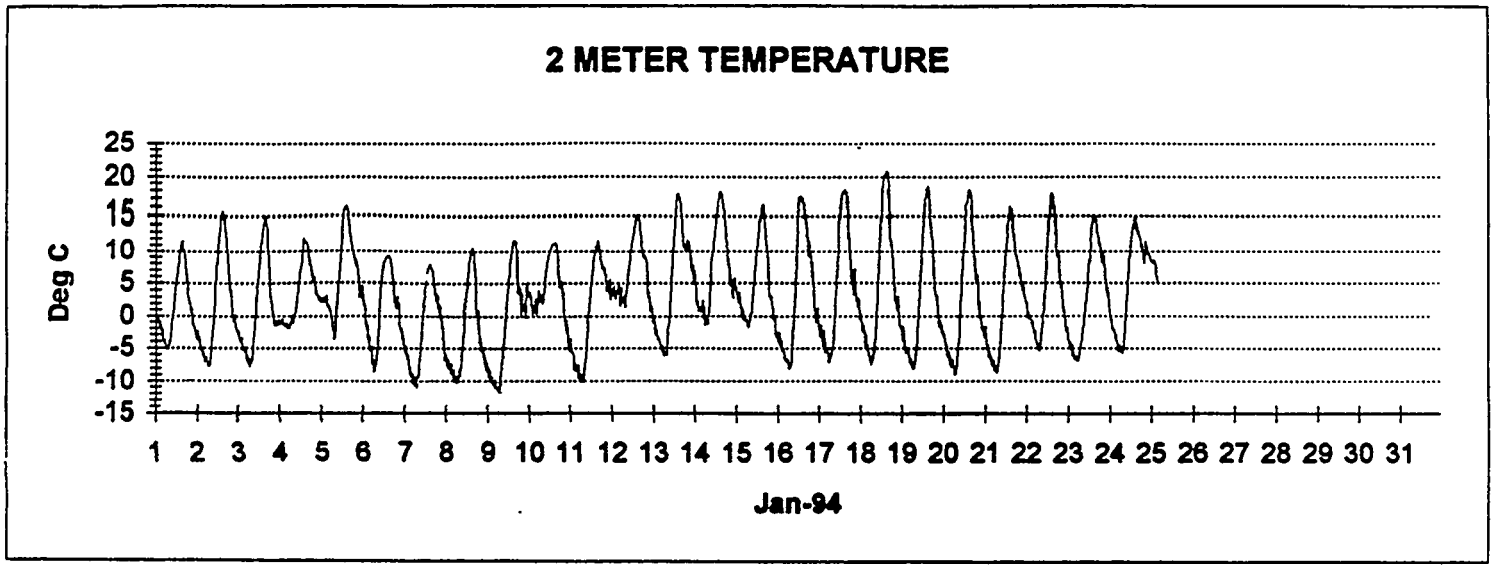
APPENDICES

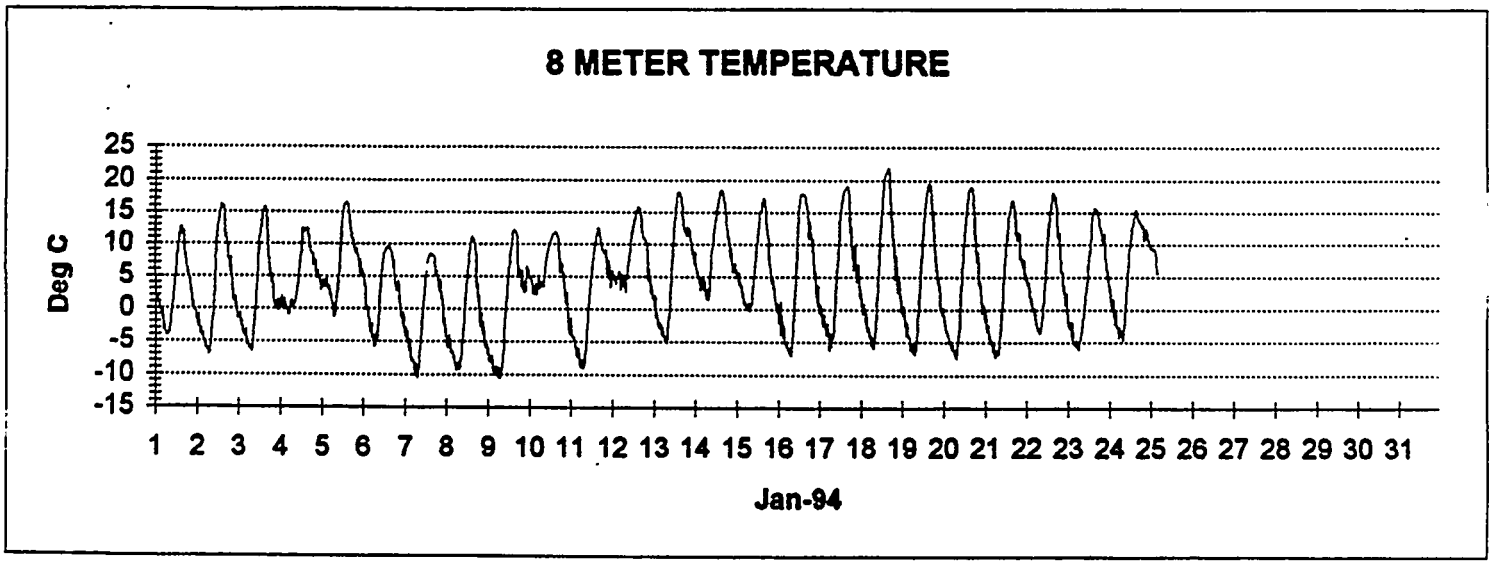
Appendix A	**Selected Time Series Plots, Two and Eight Meters**
Appendix B	**Monthly Wind Roses, Two and Eight Meters**
Appendix C	**Monthly Wind Frequency Distributions, Two and Eight Meters**
Appendix D	**Tabulated Hourly Richardson Numbers, Monin-Obukhov Lengths Estimated from Richardson Numbers, Temperature Differences Two to Sixteen Meters, and Sigma Theta Stability Classes**

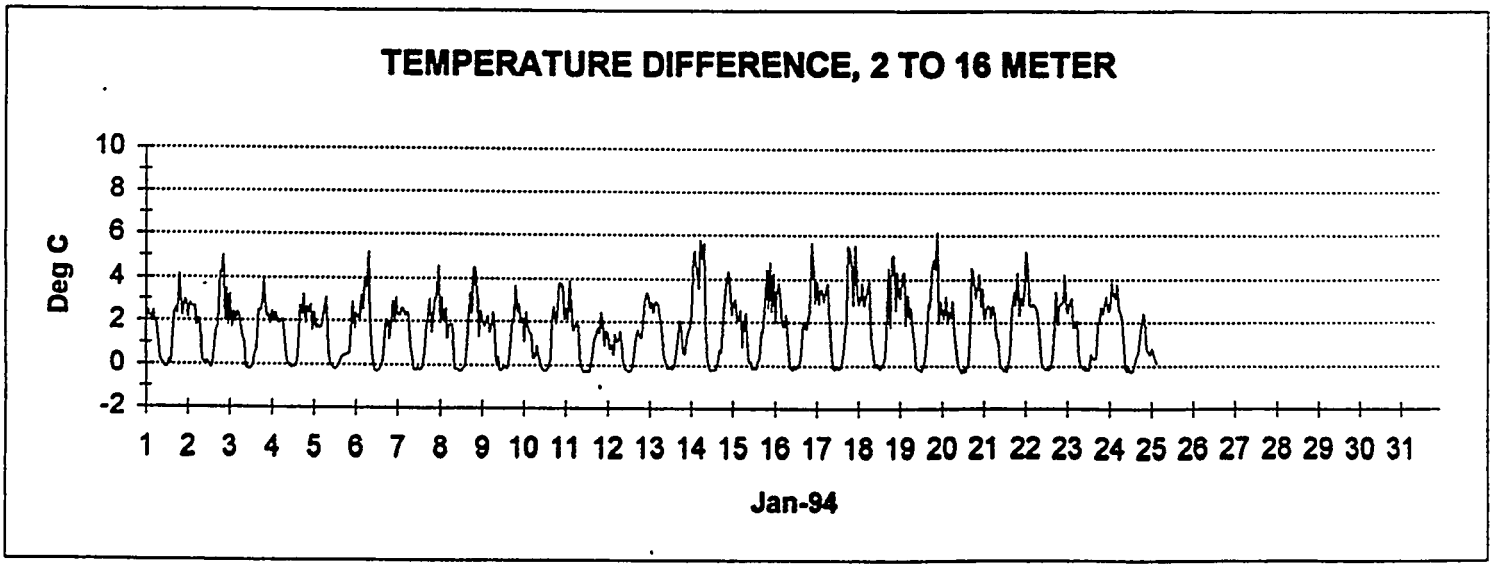
APPENDIX A: TIME SERIES PLOTS --15 MINUTE AVERAGES

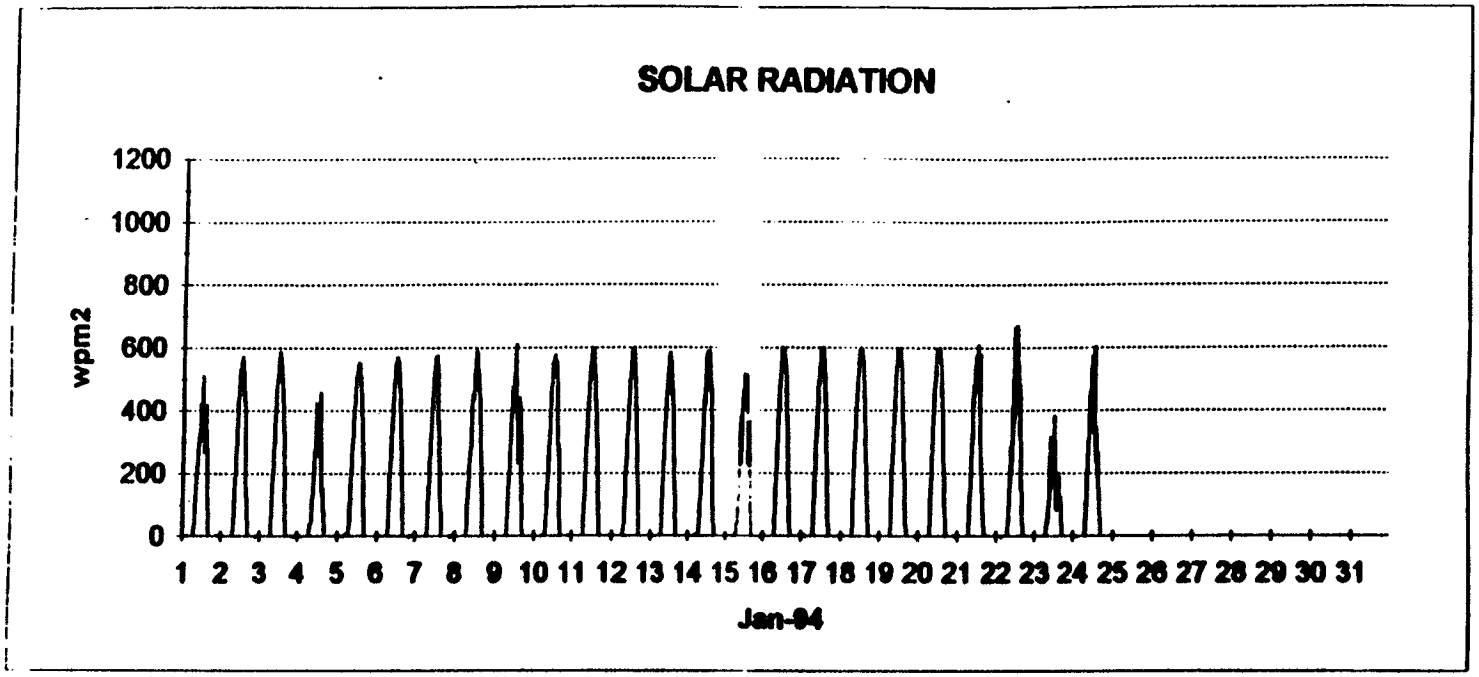
Each Month, January - December, 1994

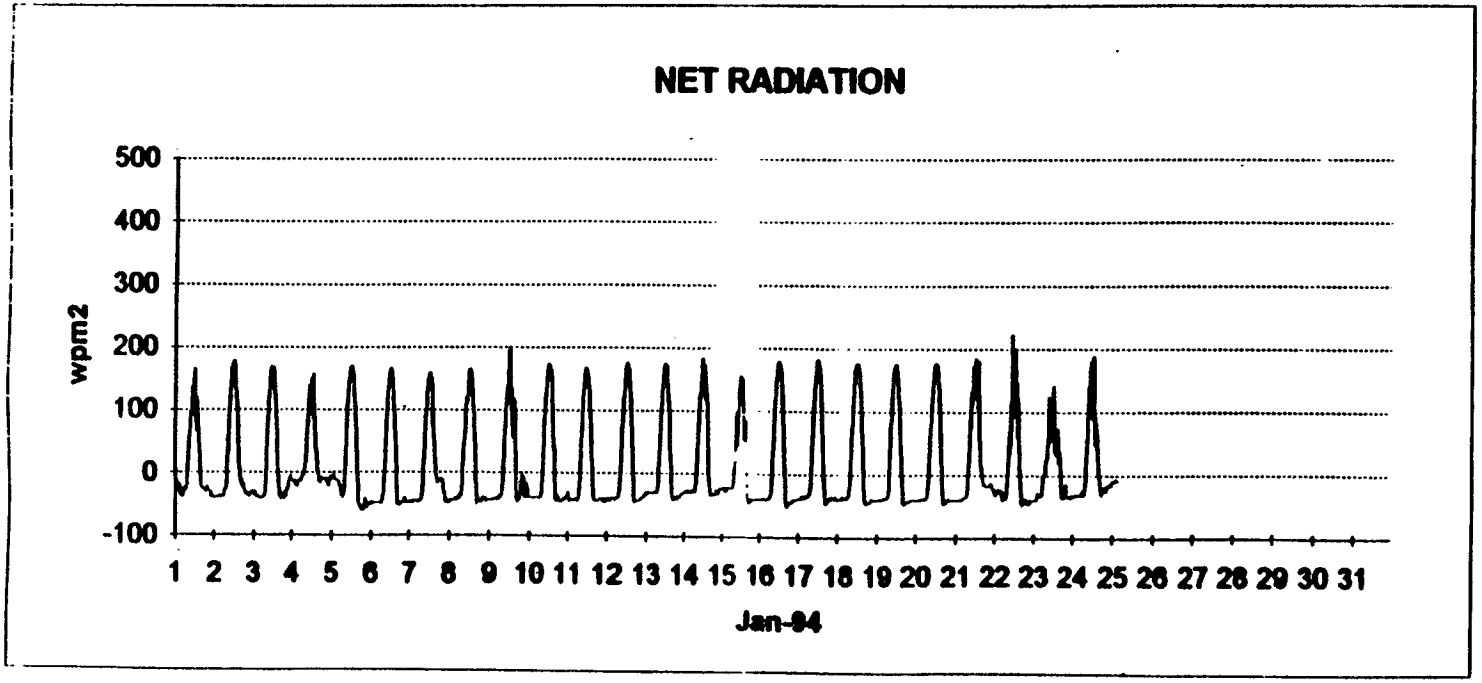
1. Two Meter Air Temperature
2. Eight Meter Air Temperature
3. Temperature Difference, Two to Sixteen Meter
4. Solar Radiation
5. Net Radiation
6. Two Meter Wind Speed / Wind Direction
7. Eight Meter Wind Speed / Wind Direction

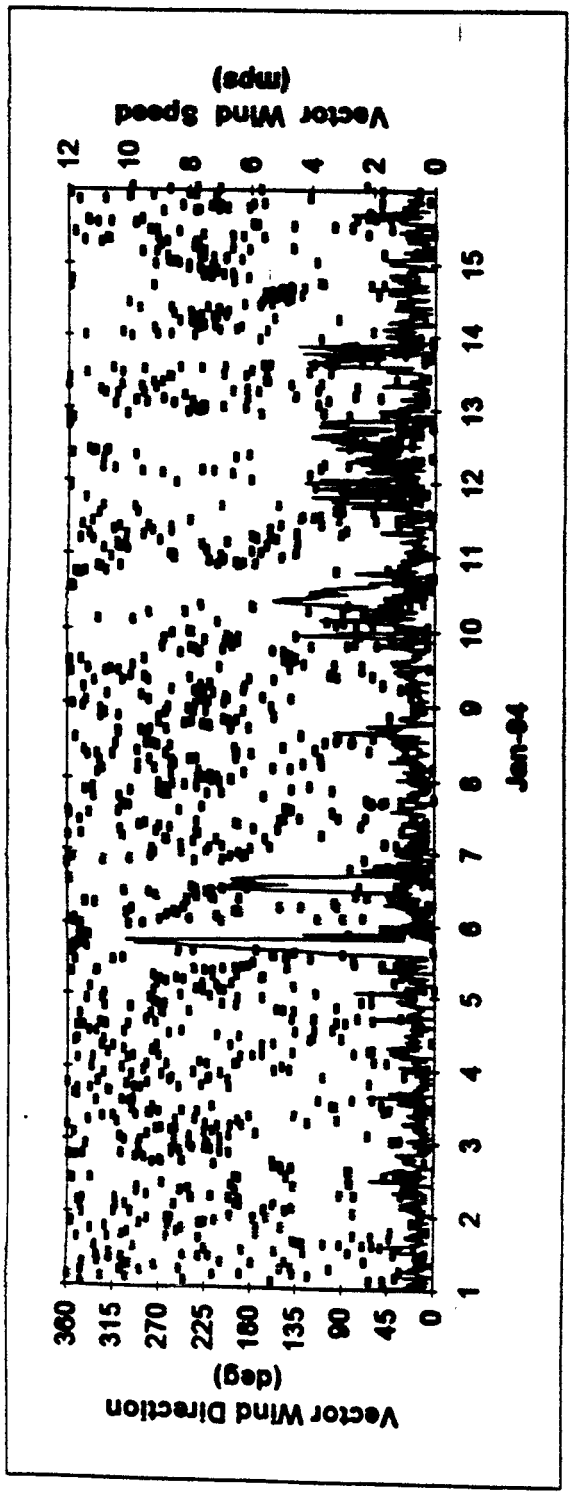

2 METER TEMPERATURE
Deg C
25
20
15
10
5
0
-5
-10
-15
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Jan-94

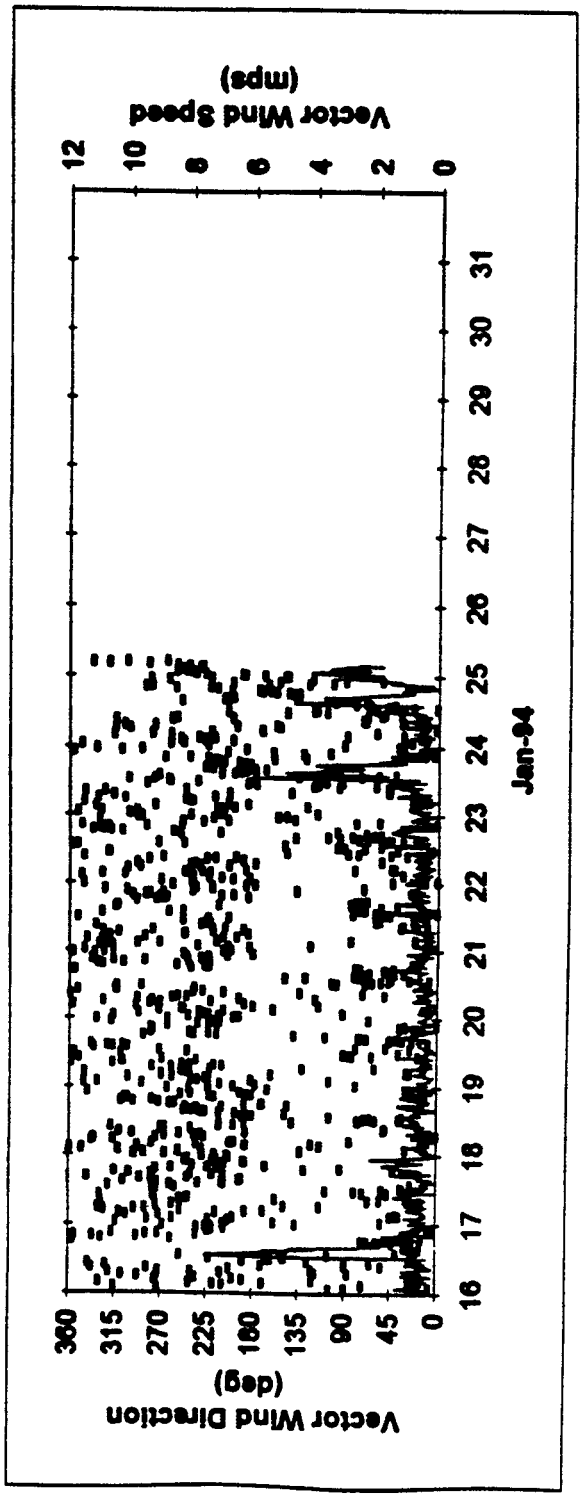

8 METER TEMPERATURE
Deg C
25
20
15
10
5
0
-5
-10
-15
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Jan-94


TEMPERATURE DIFFERENCE, 2 TO 16 METER
Deg C
10
8
6
4
2
0
-2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Jan-94

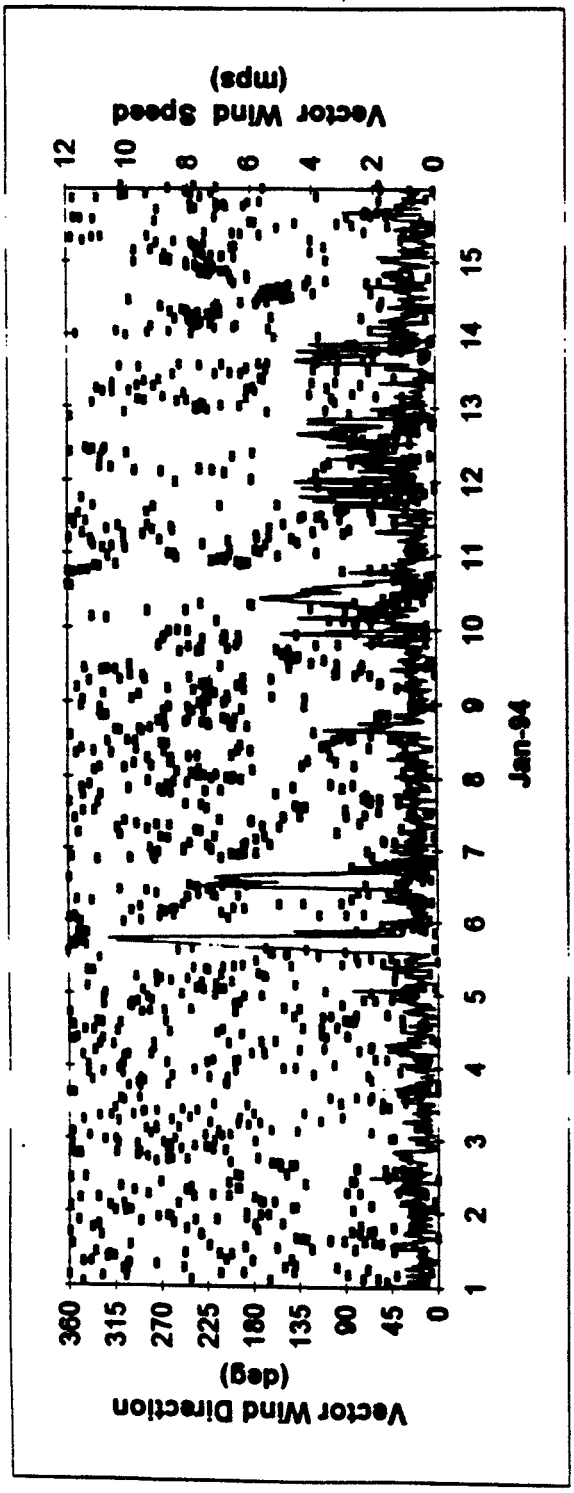

SOLAR RADIATION
wpm2
1200
1000
800
600
400
200
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Jan-94

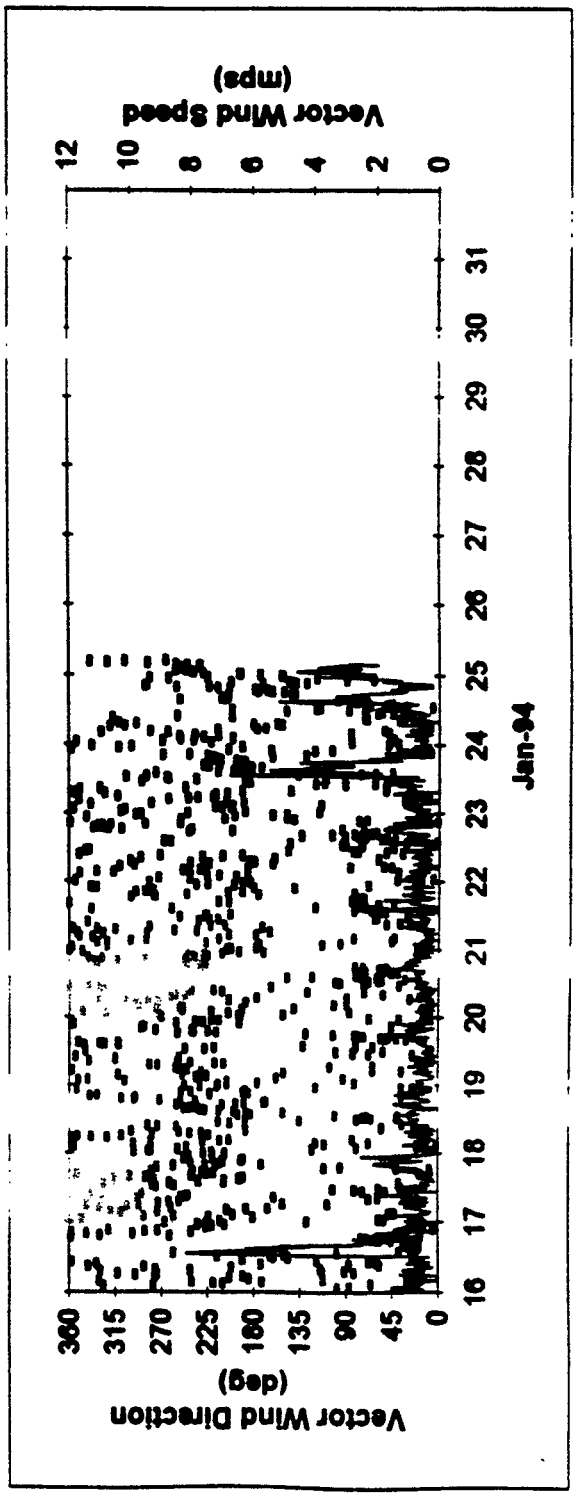

NET RADIATION
wpm2
500
400
300
200
100
0
-100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Jan-94

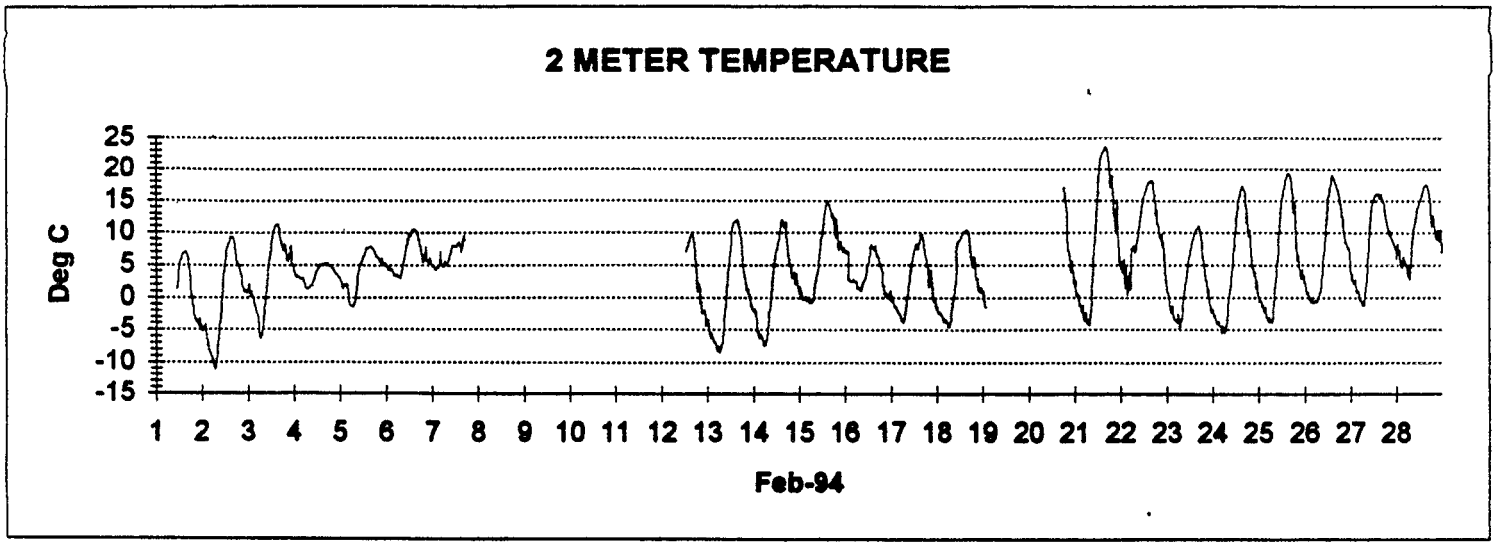

Vector Wind Direction
(deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed
(mps)
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Jan-04

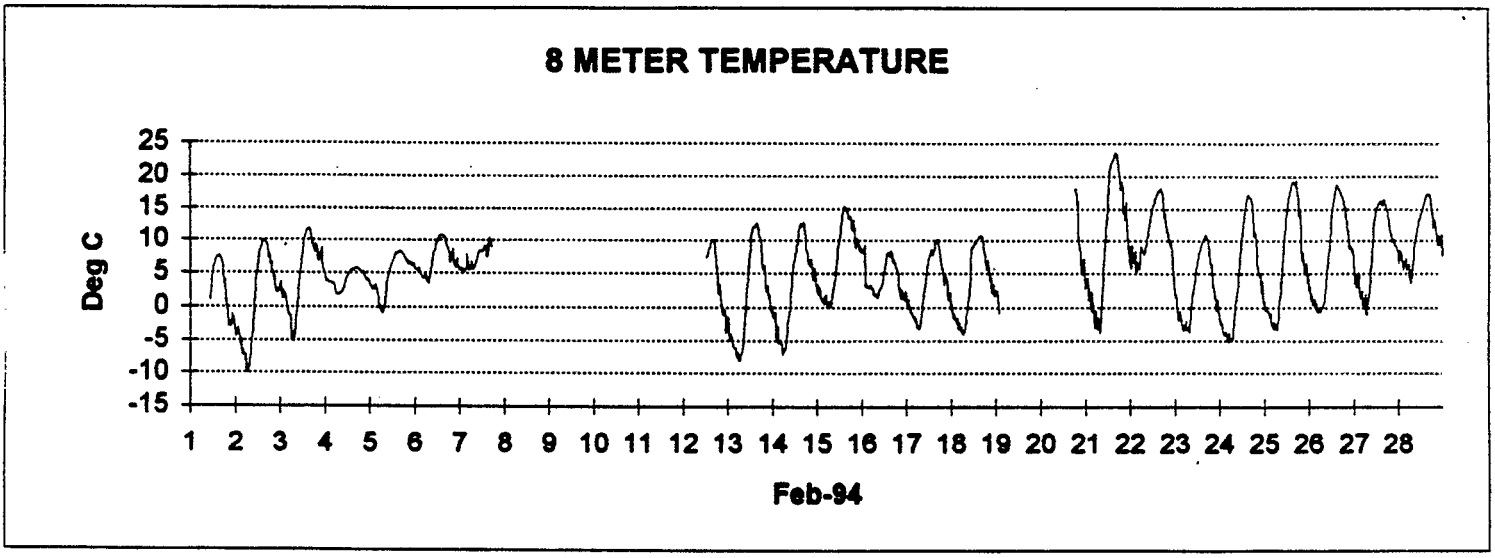

Vector Wind Direction
(deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed
(mps)
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Jan-04

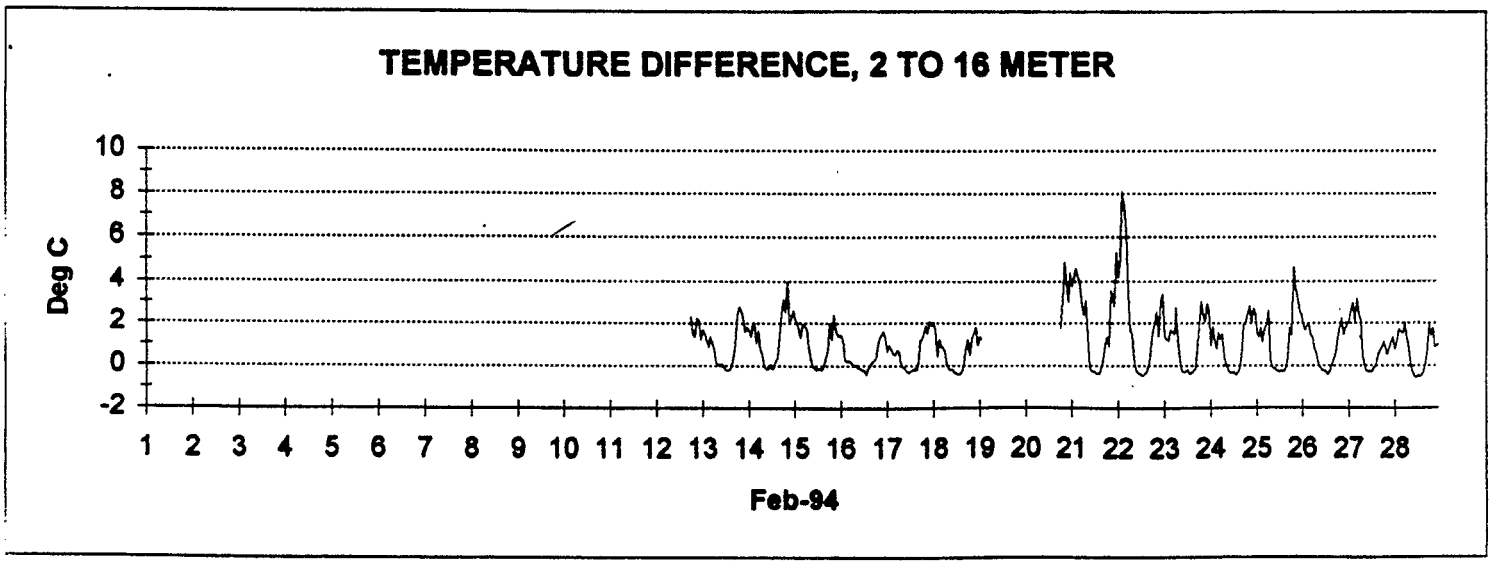
8 METER

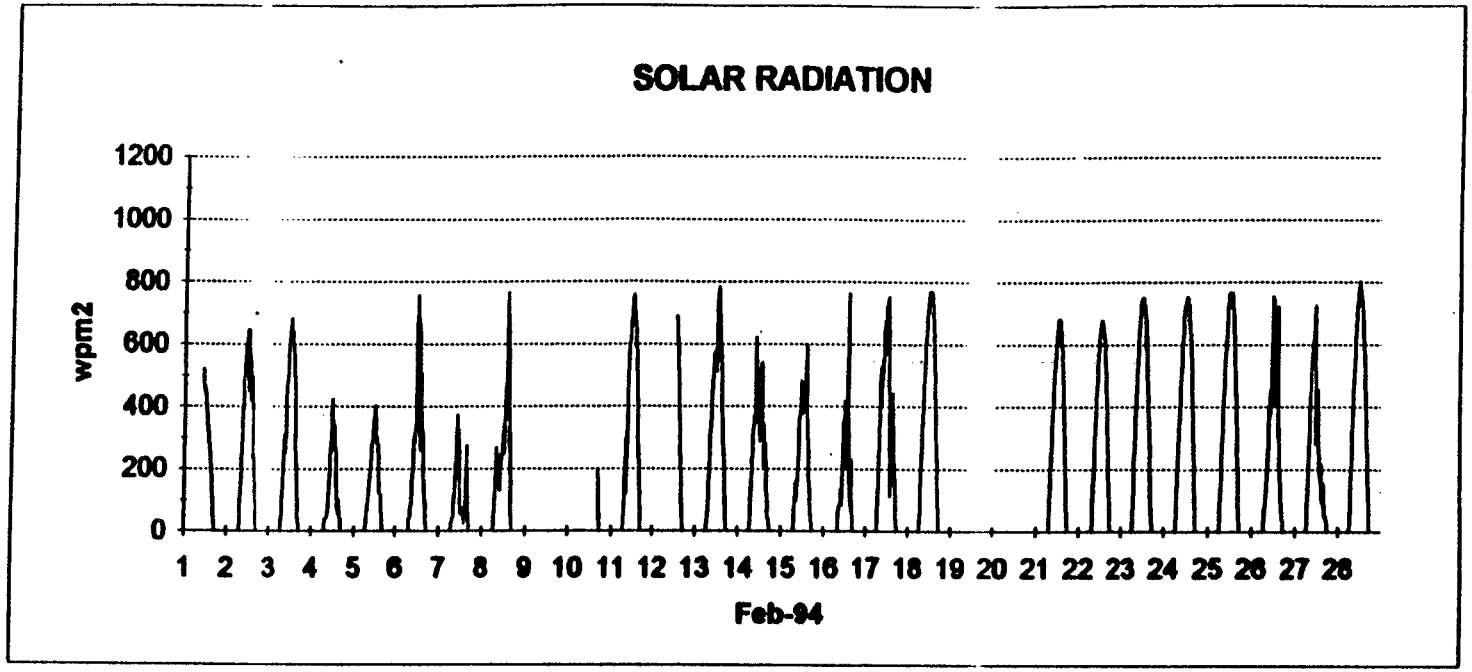

Vector Wind Speed
(mps)
0
2
4
6
8
10
12
Vector Wind Direction
(deg)
0
45
90
135
180
225
270
315
360
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
Jan-94

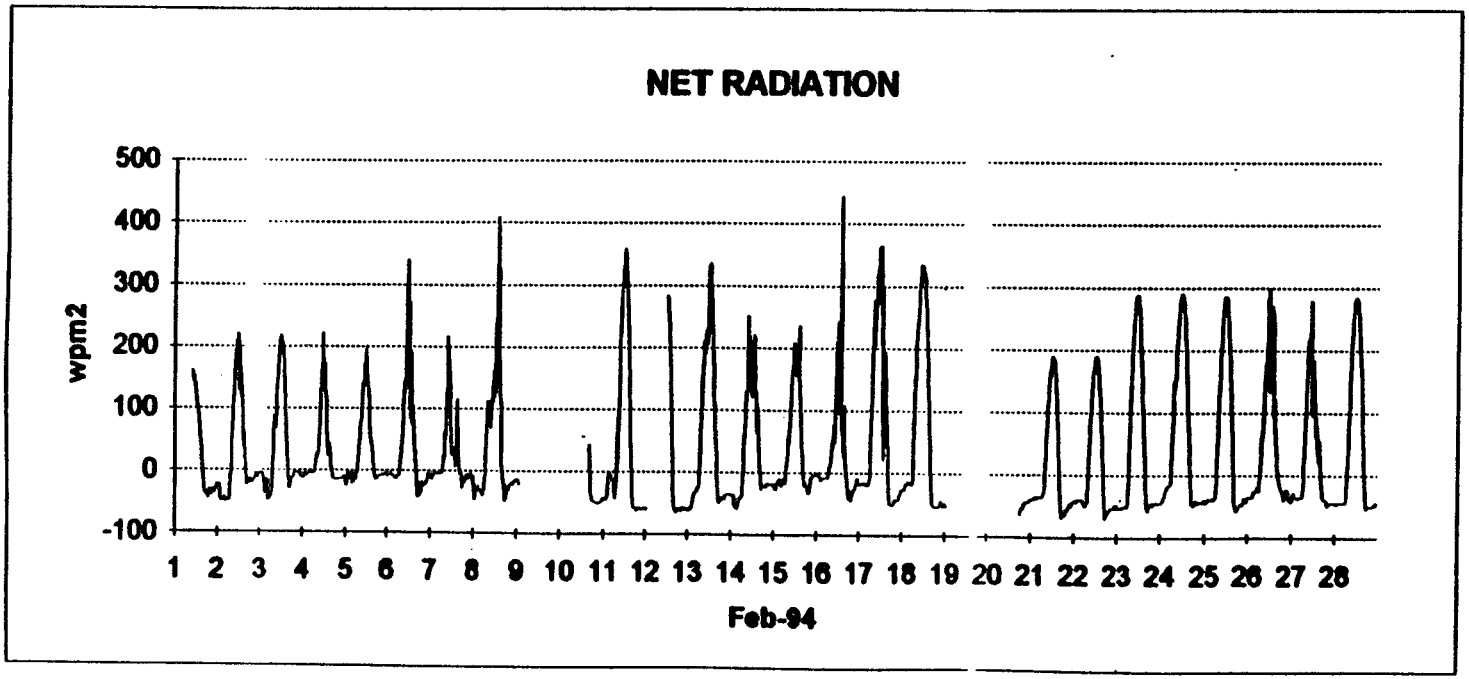

Vector Wind Speed
(mps)
0
2
4
6
8
10
12
Vector Wind Direction
(deg)
0
45
90
135
180
225
270
315
360
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
Jan-94


2 METER TEMPERATURE
Deg C
25
20
15
10
5
0
-5
-10
-15
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
Feb-94

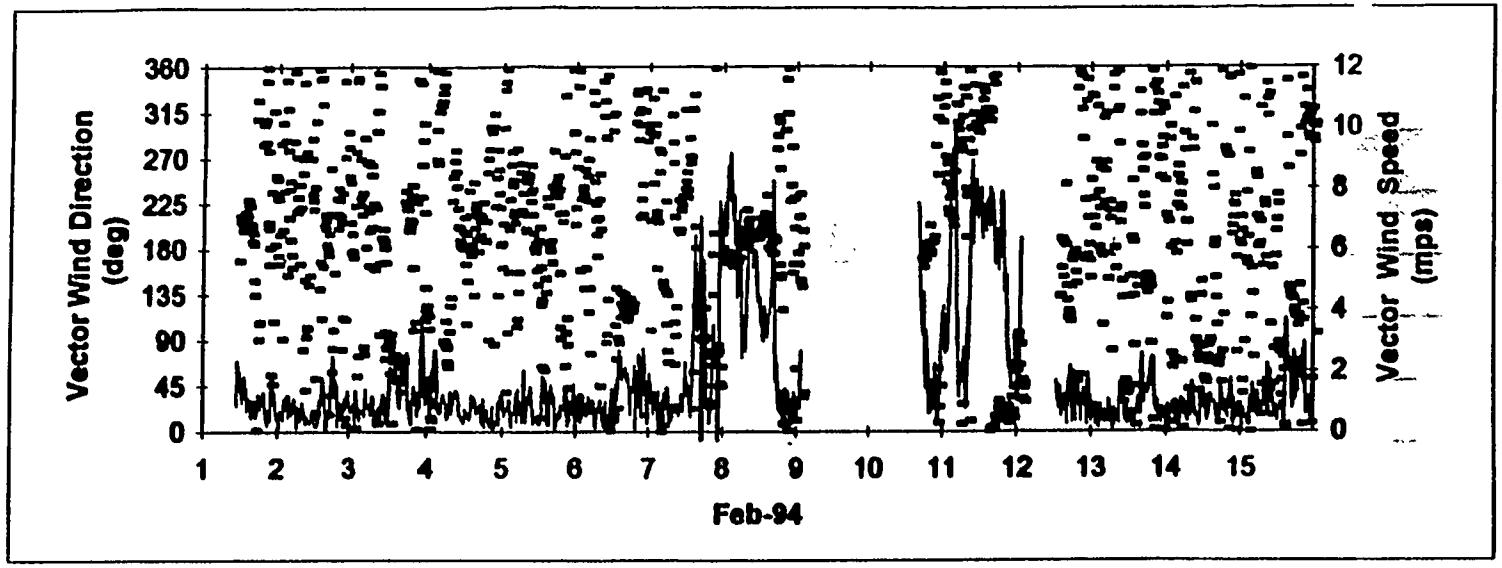

8 METER TEMPERATURE
Deg C
25
20
15
10
5
0
-5
-10
-15
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
Feb-94

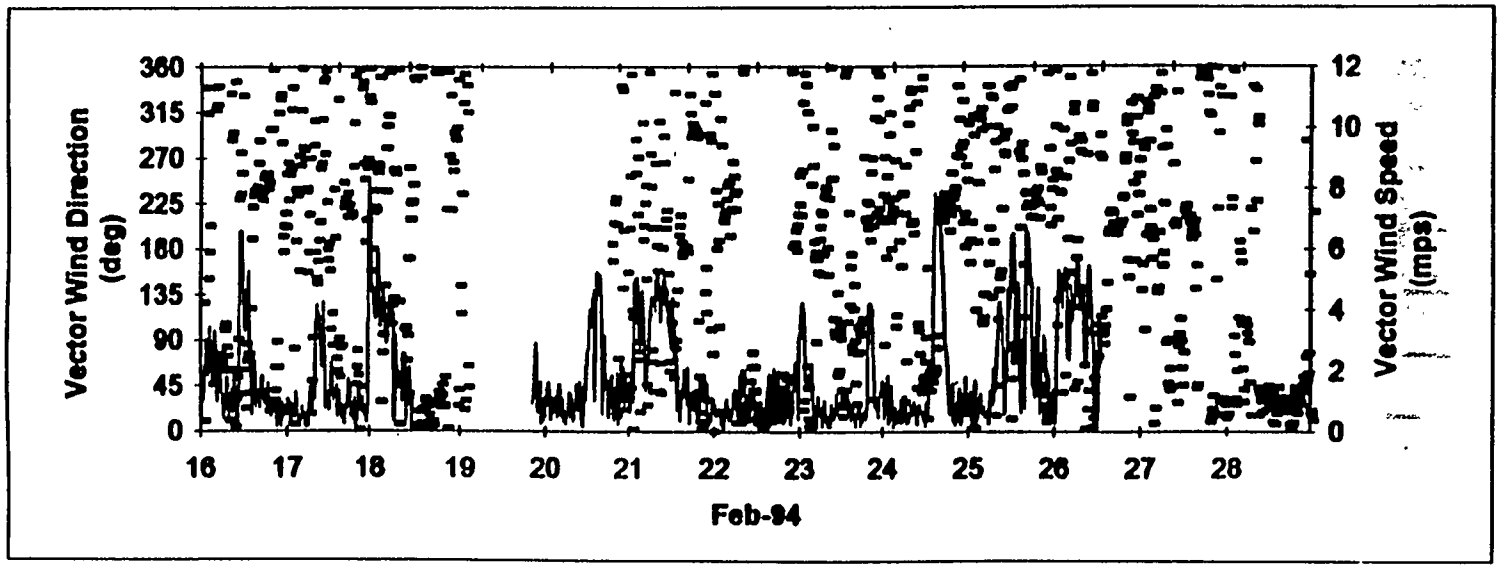

TEMPERATURE DIFFERENCE, 2 TO 16 METER
Deg C
10
8
6
4
2
0
-2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
Feb-94

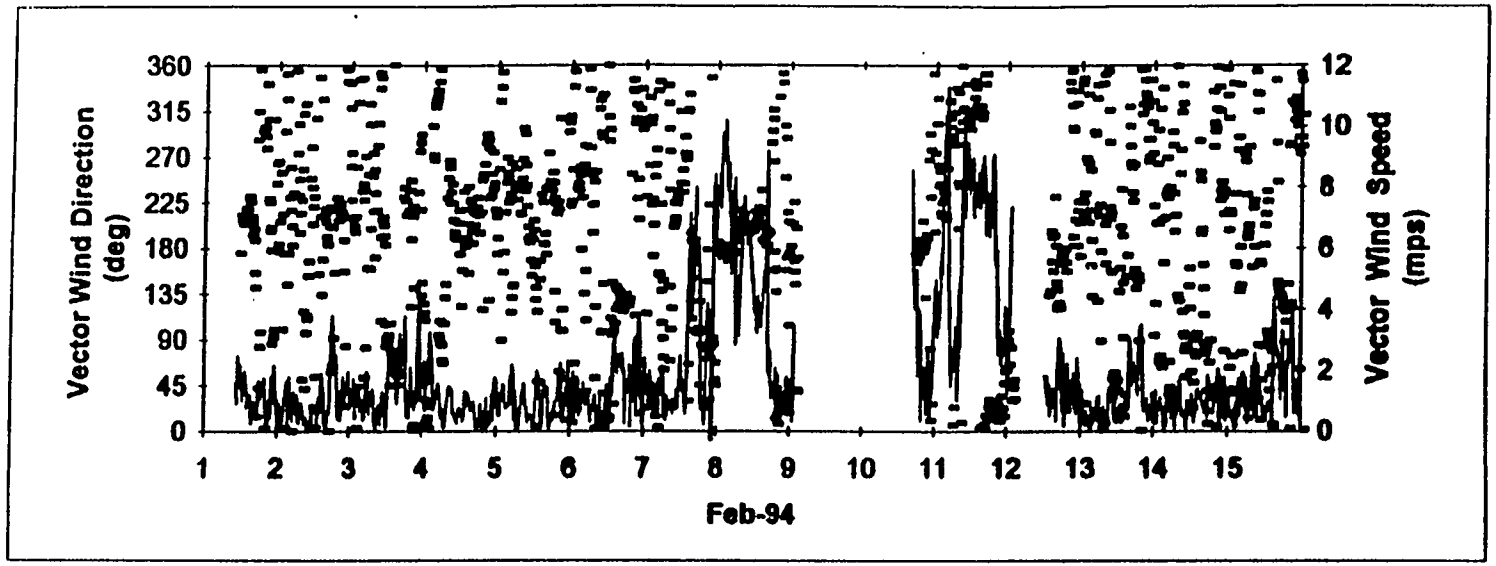

SOLAR RADIATION
wpm2
1200
1000
800
600
400
200
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
Feb-94

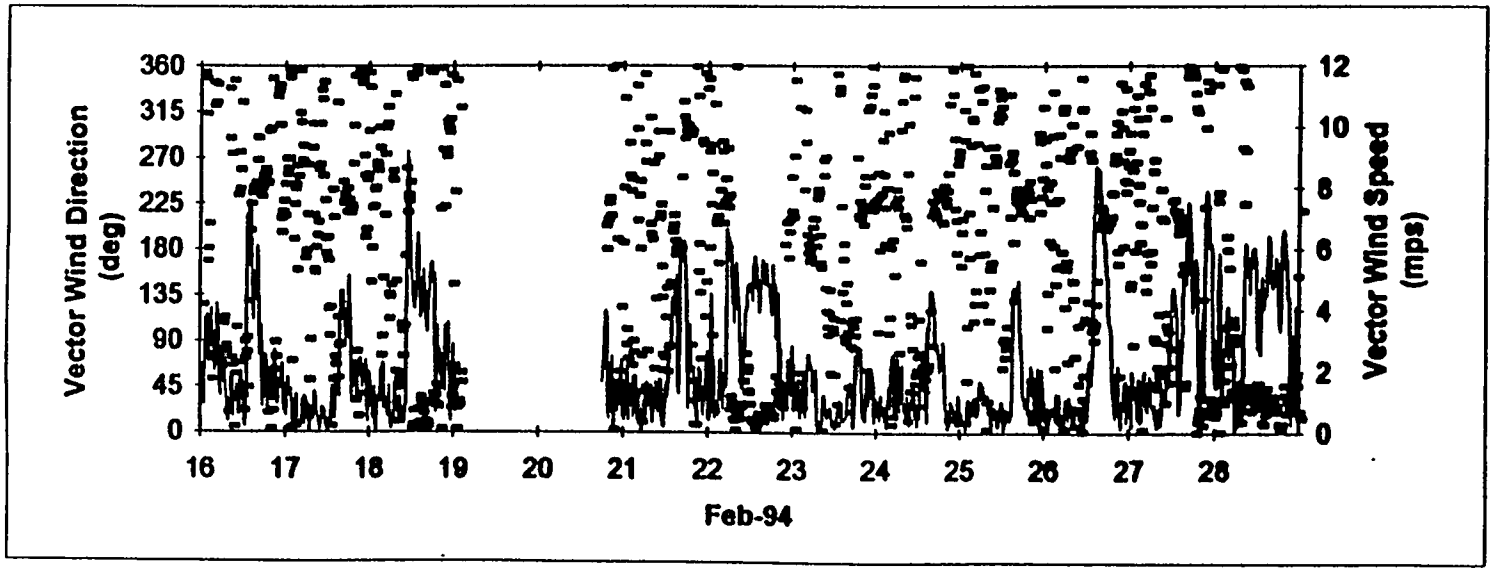

NET RADIATION
wpm2
500
400
300
200
100
0
-100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28
Feb-94

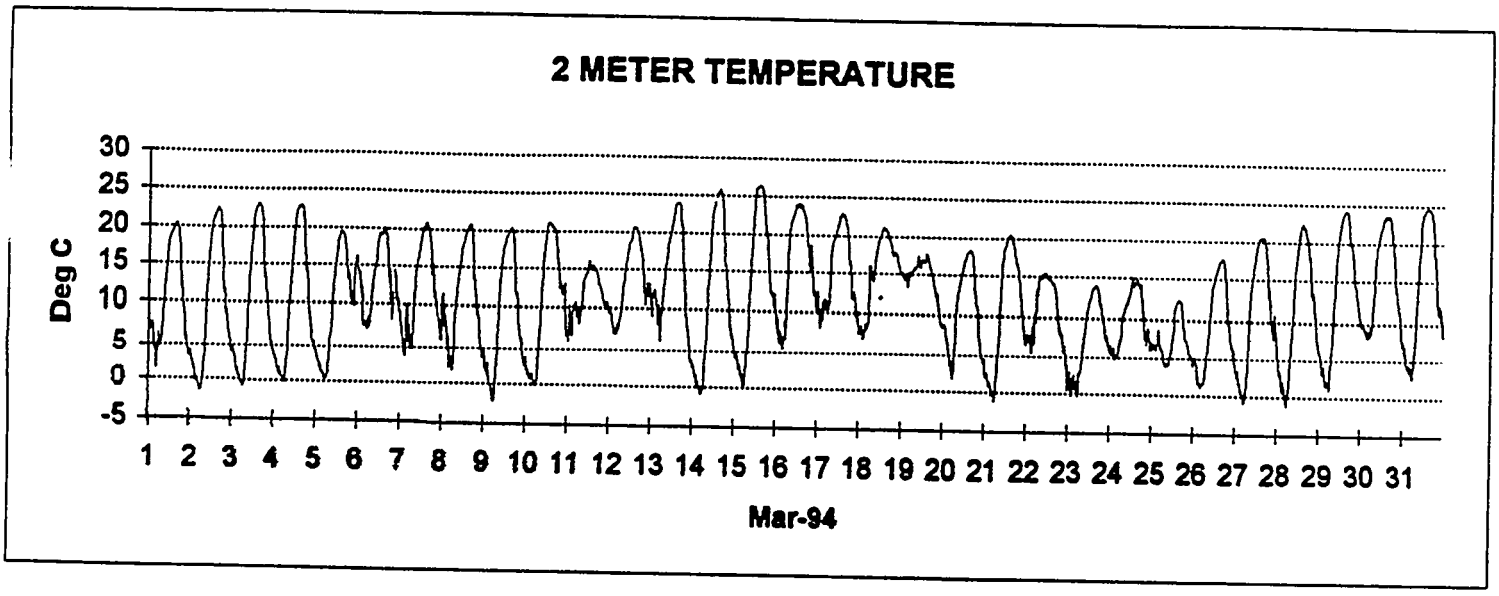
2 METER

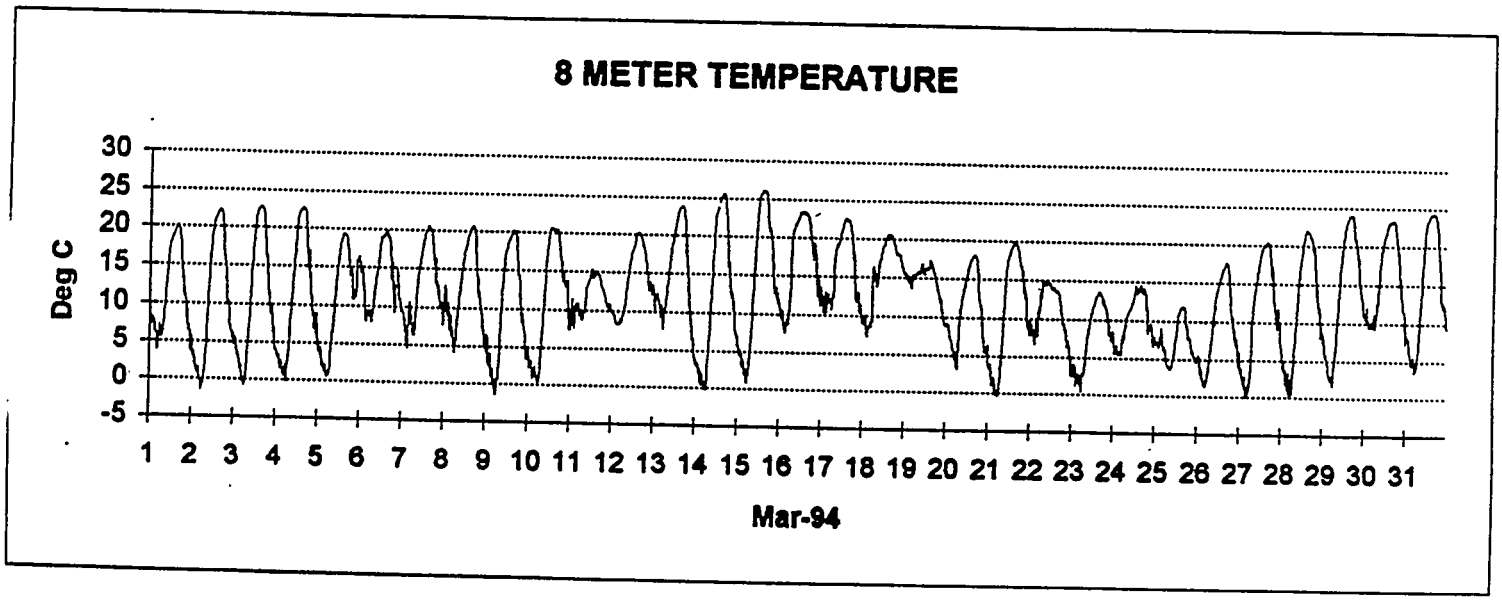

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Feb-94

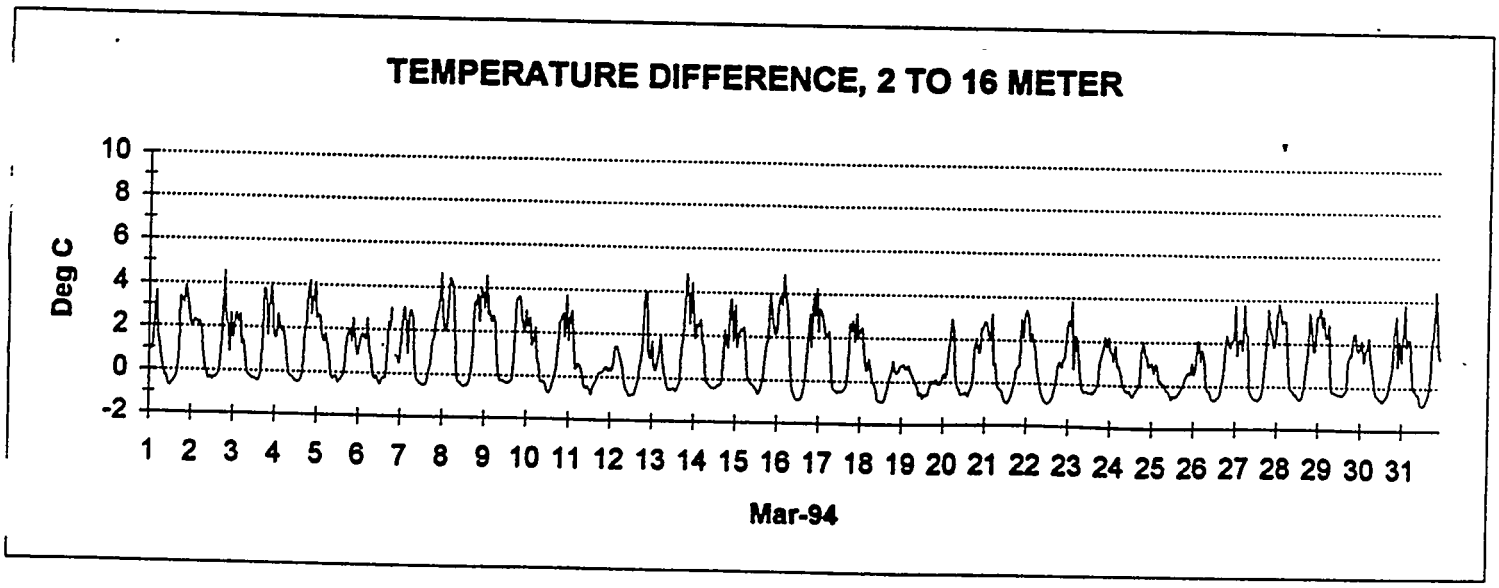

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28
Feb-94

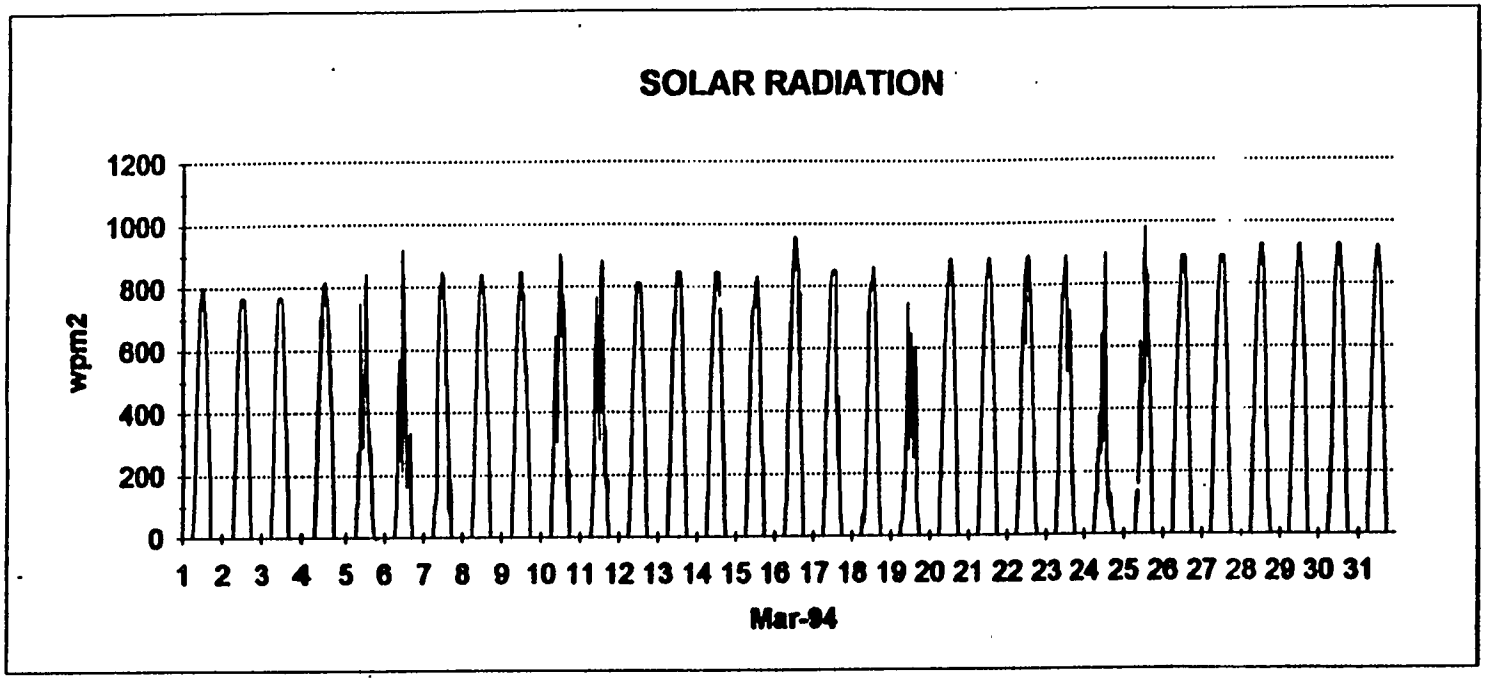

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Feb-94

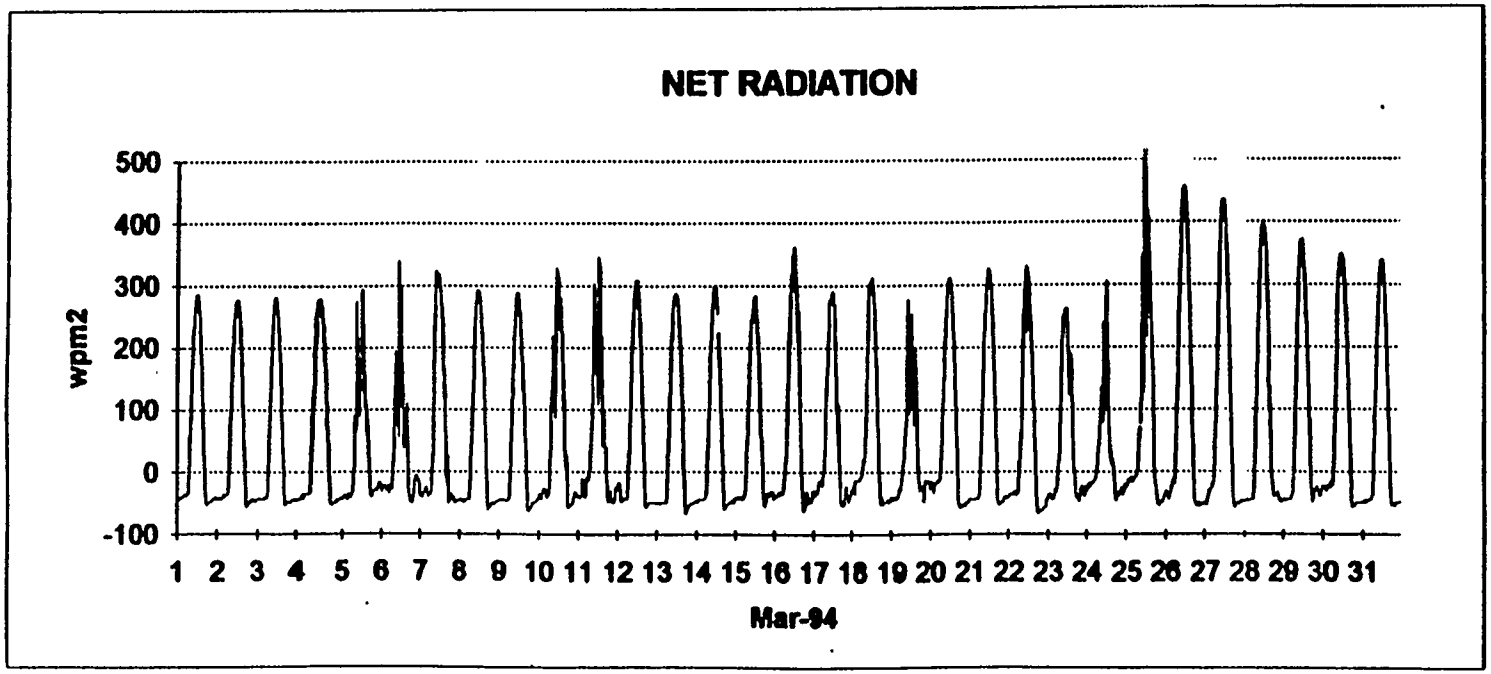

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28
Feb-94


2 METER TEMPERATURE
Deg C
30
25
20
15
10
5
0
-5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Mar-94

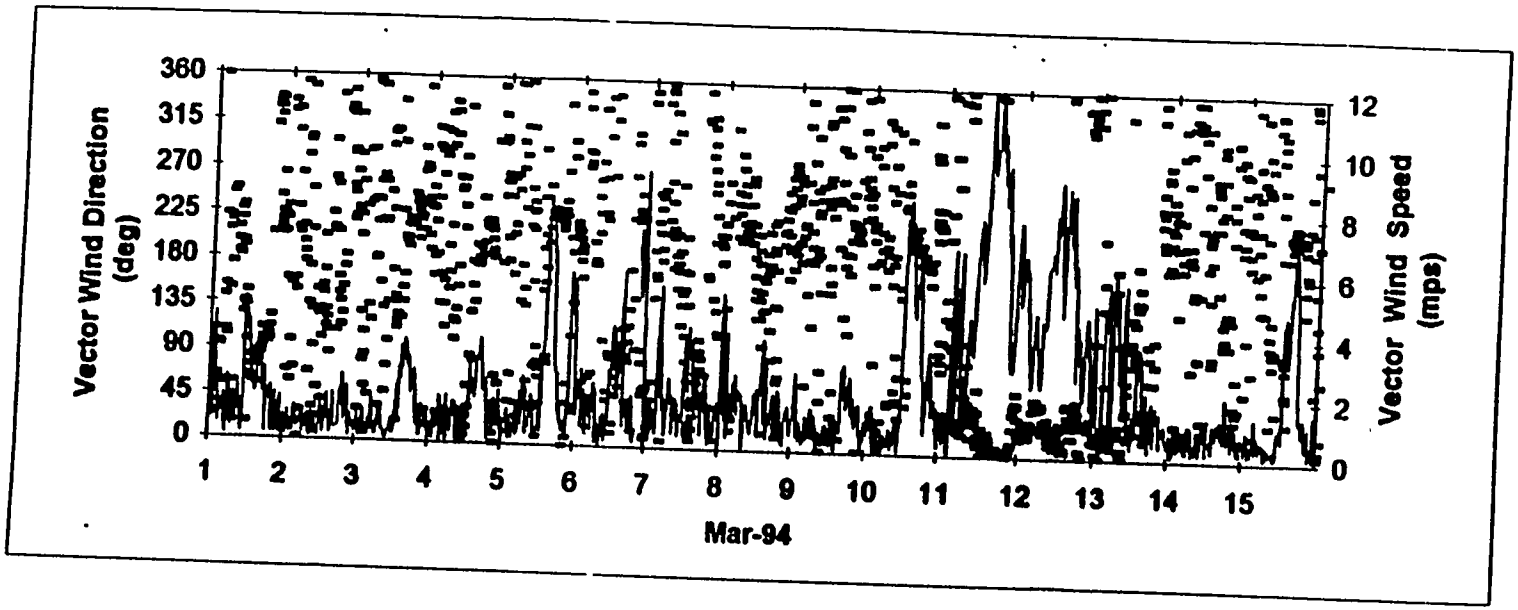

8 METER TEMPERATURE
Deg C
30
25
20
15
10
5
0
-5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Mar-94

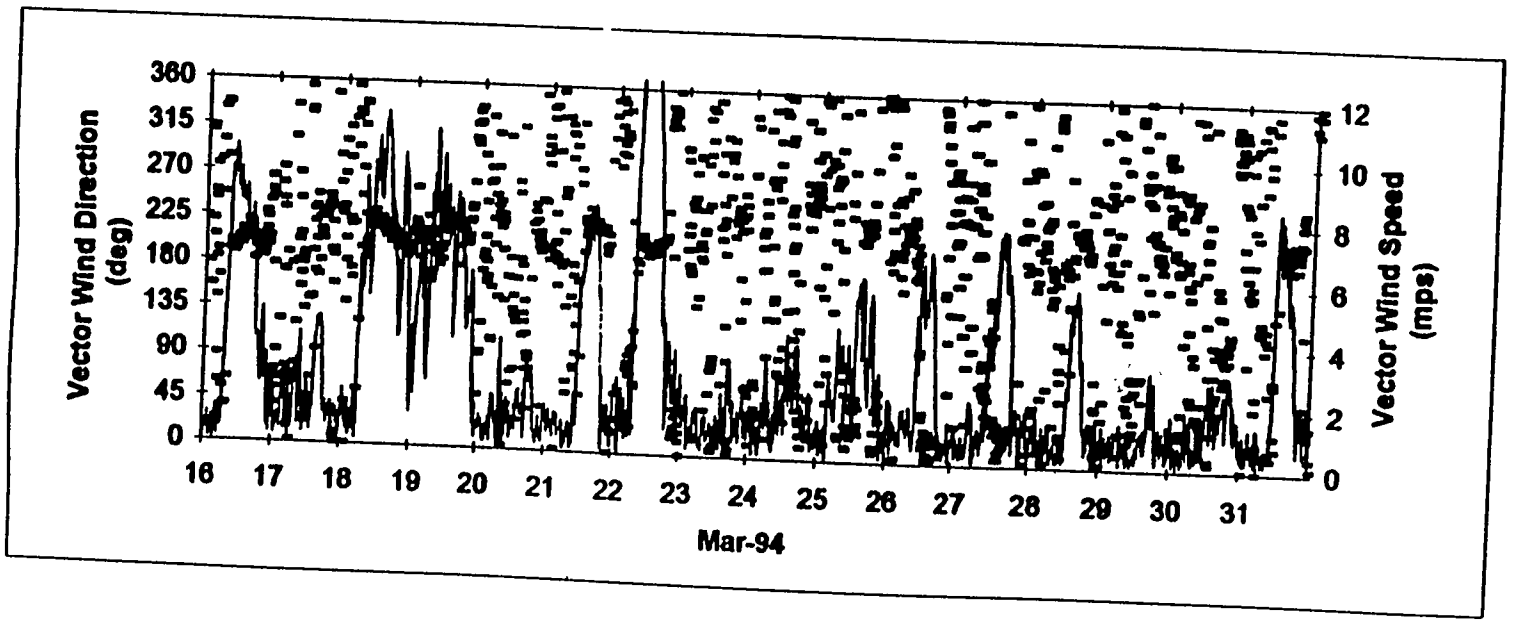

TEMPERATURE DIFFERENCE, 2 TO 16 METER
Deg C
10
8
6
4
2
0
-2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Mar-94


SOLAR RADIATION
wpm2
1200
1000
800
600
400
200
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Mar-94

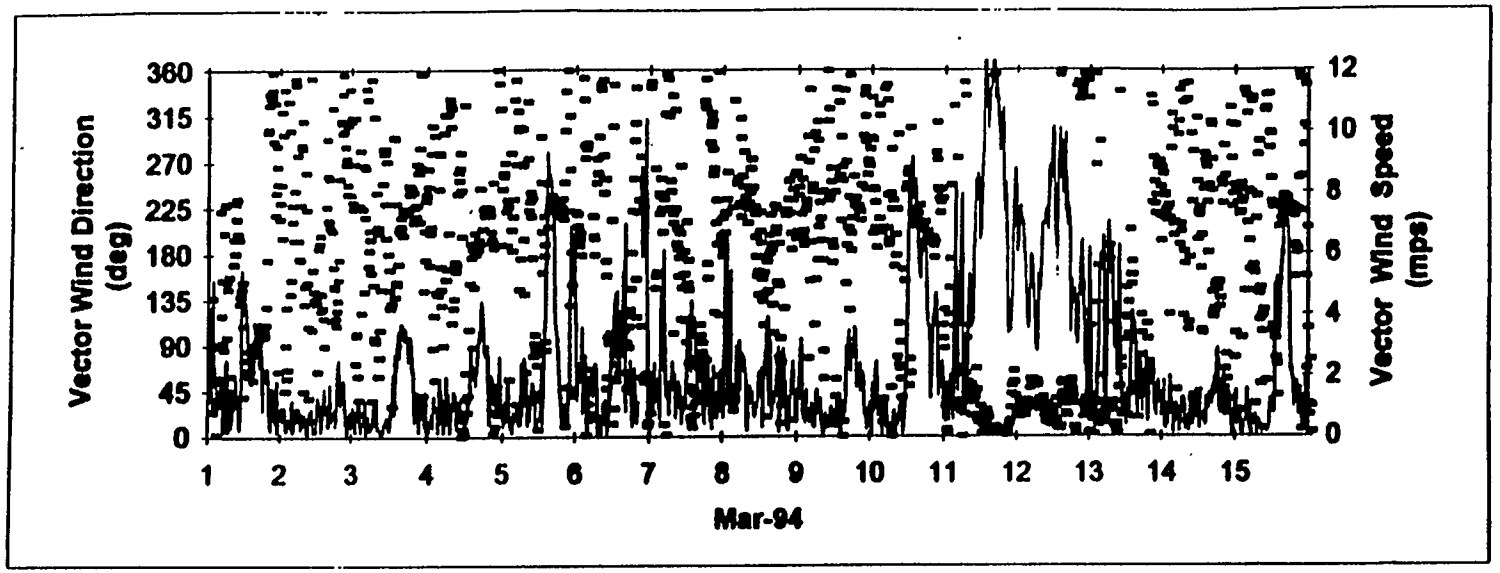

NET RADIATION
wpm2
500
400
300
200
100
0
-100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Mar-94

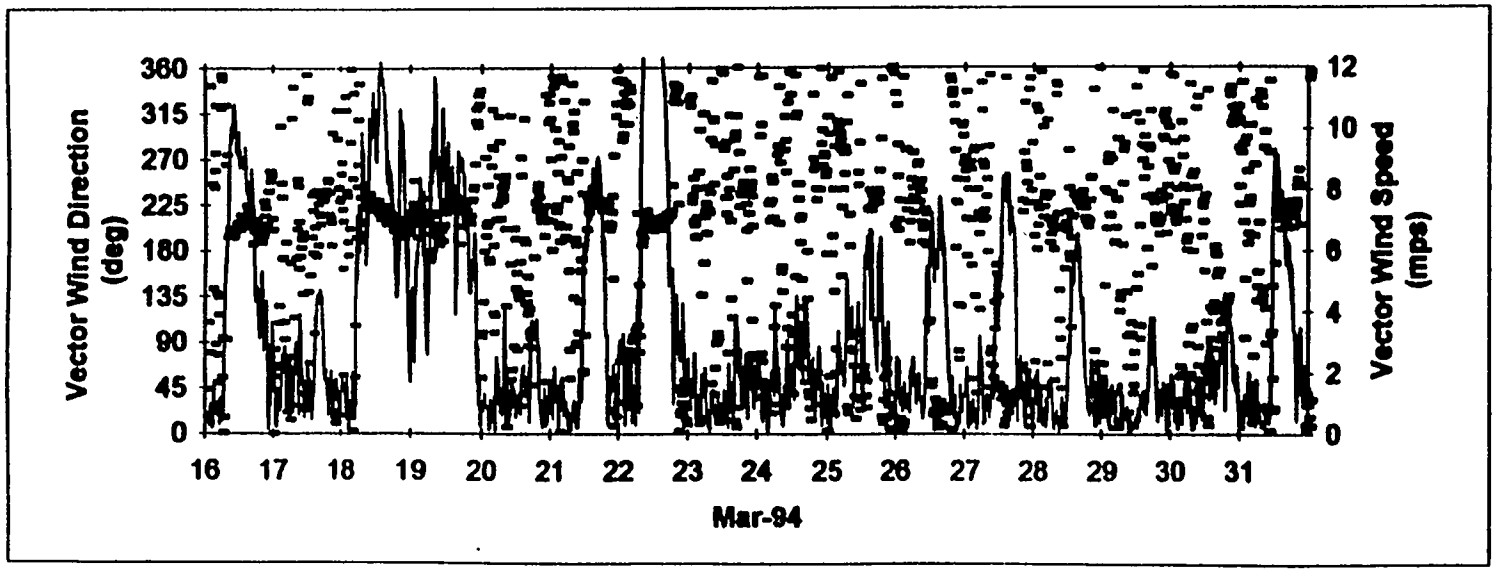
2 METER

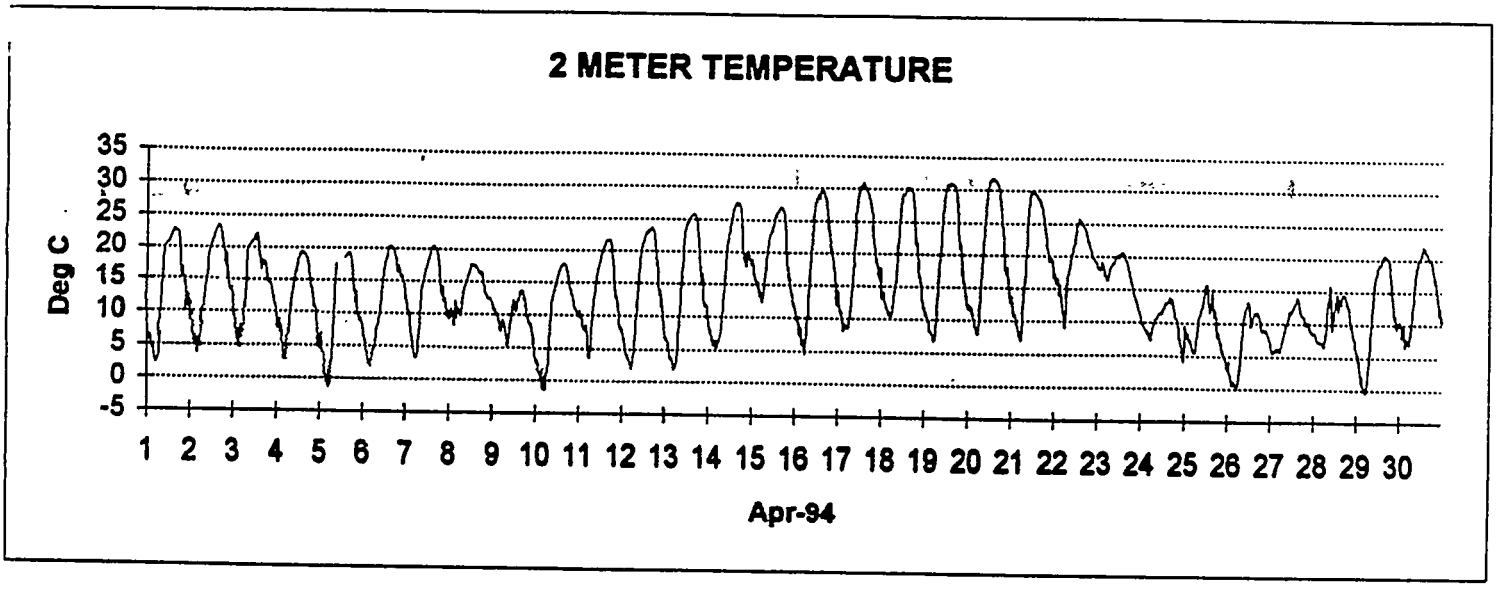

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Mar-94
Vector Wind Speed (mps)
12
10
8
6
4
2
0

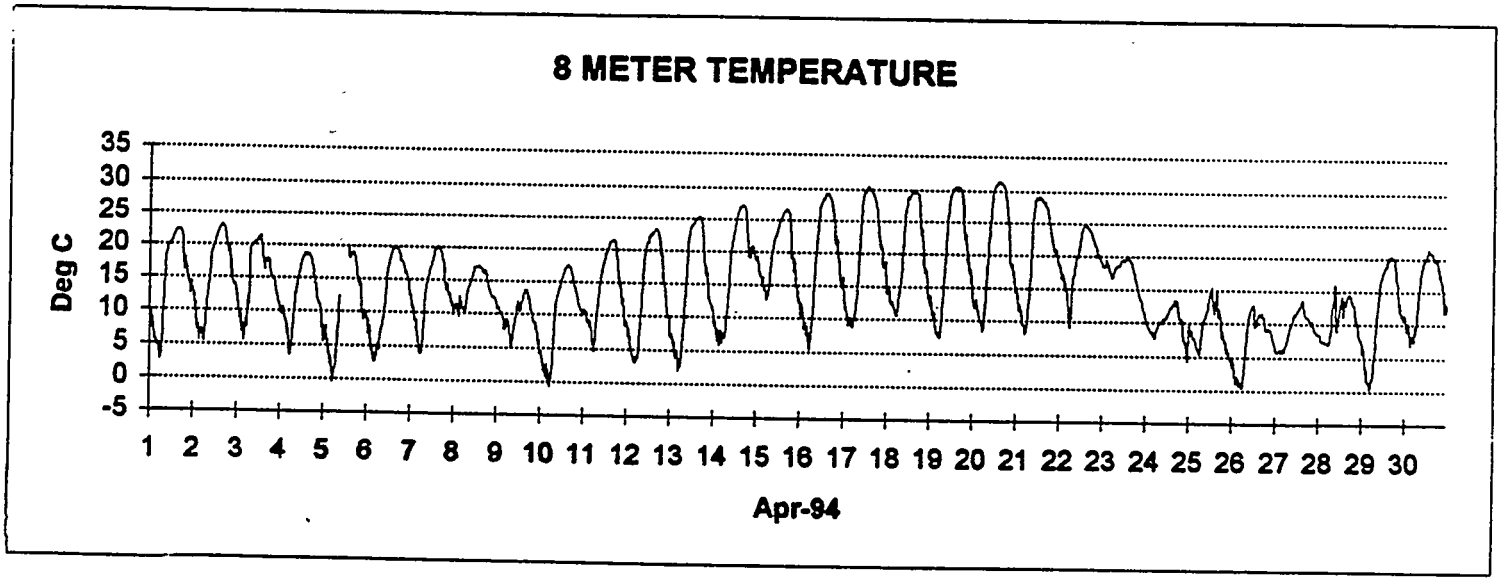

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Mar-94
Vector Wind Speed (mps)
12
10
8
6
4
2
0

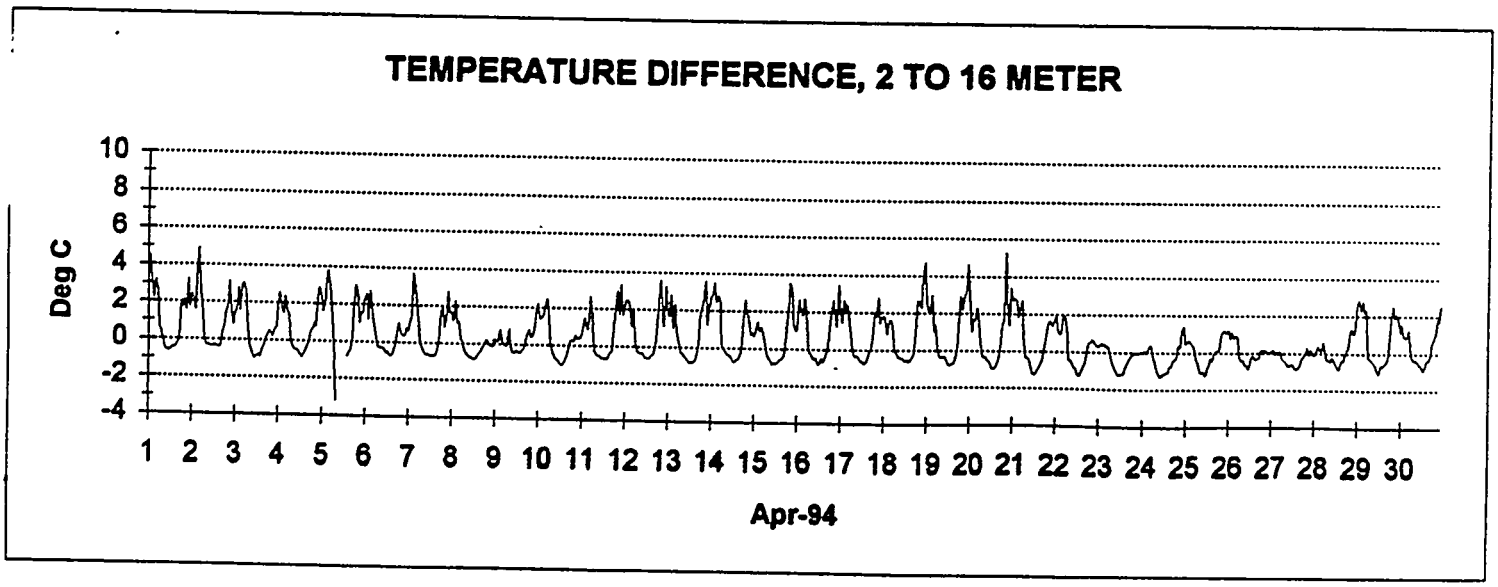
8 METER

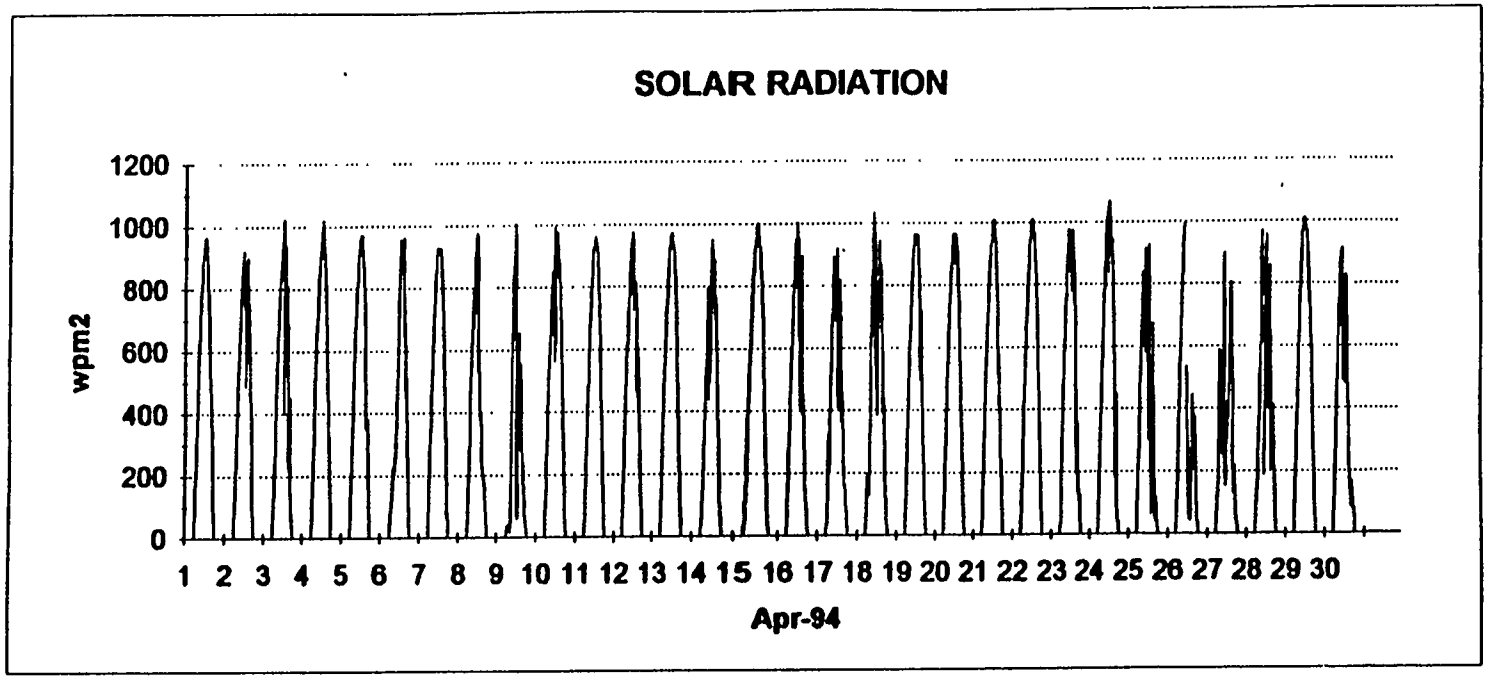

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Mar-94

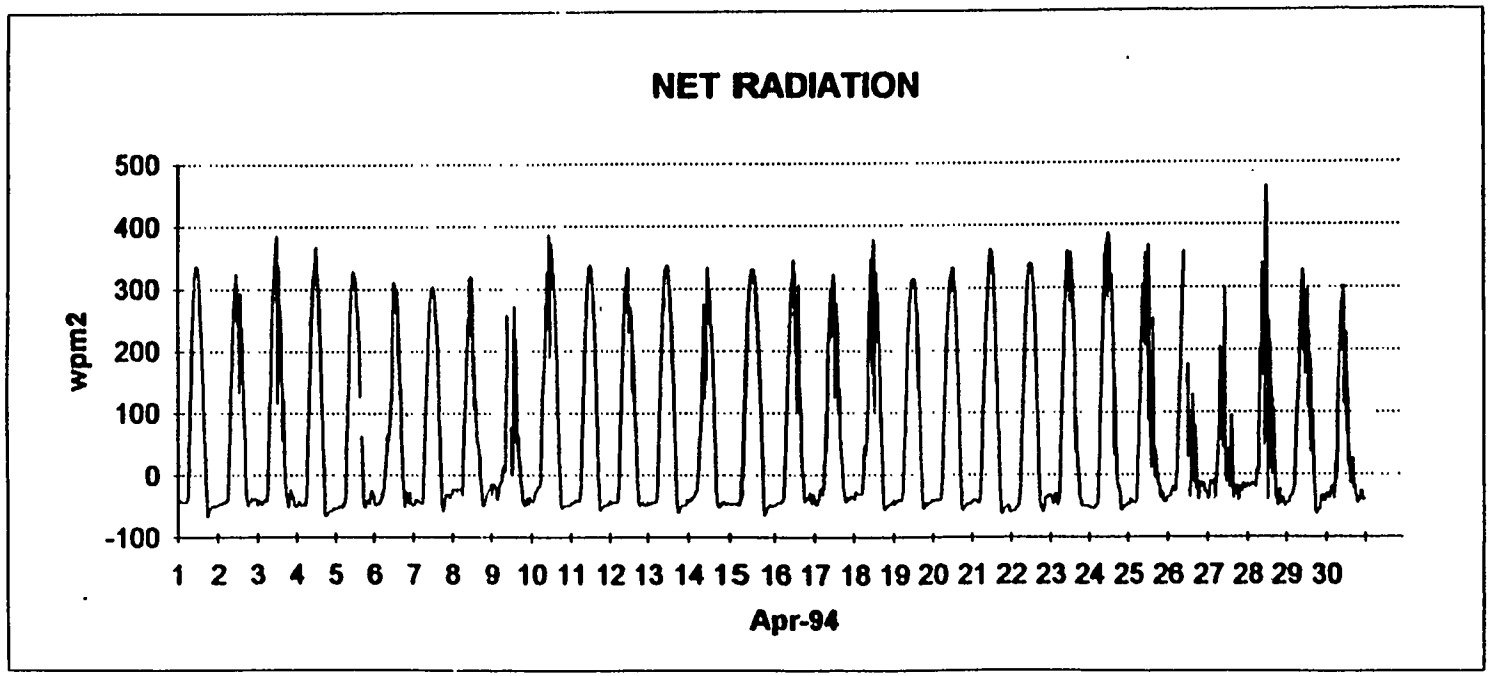

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Mar-94


2 METER TEMPERATURE
Deg C
35
30
25
20
15
10
5
0
-5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Apr-94

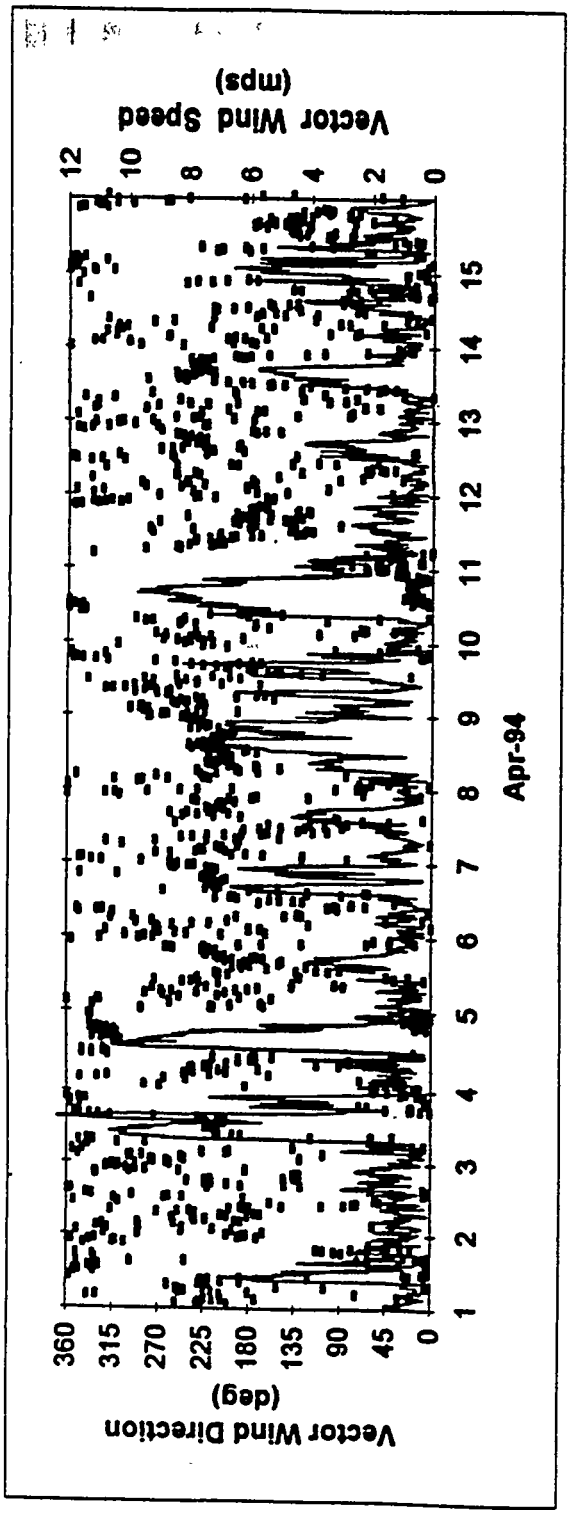

8 METER TEMPERATURE
Deg C
35
30
25
20
15
10
5
0
-5
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Apr-94

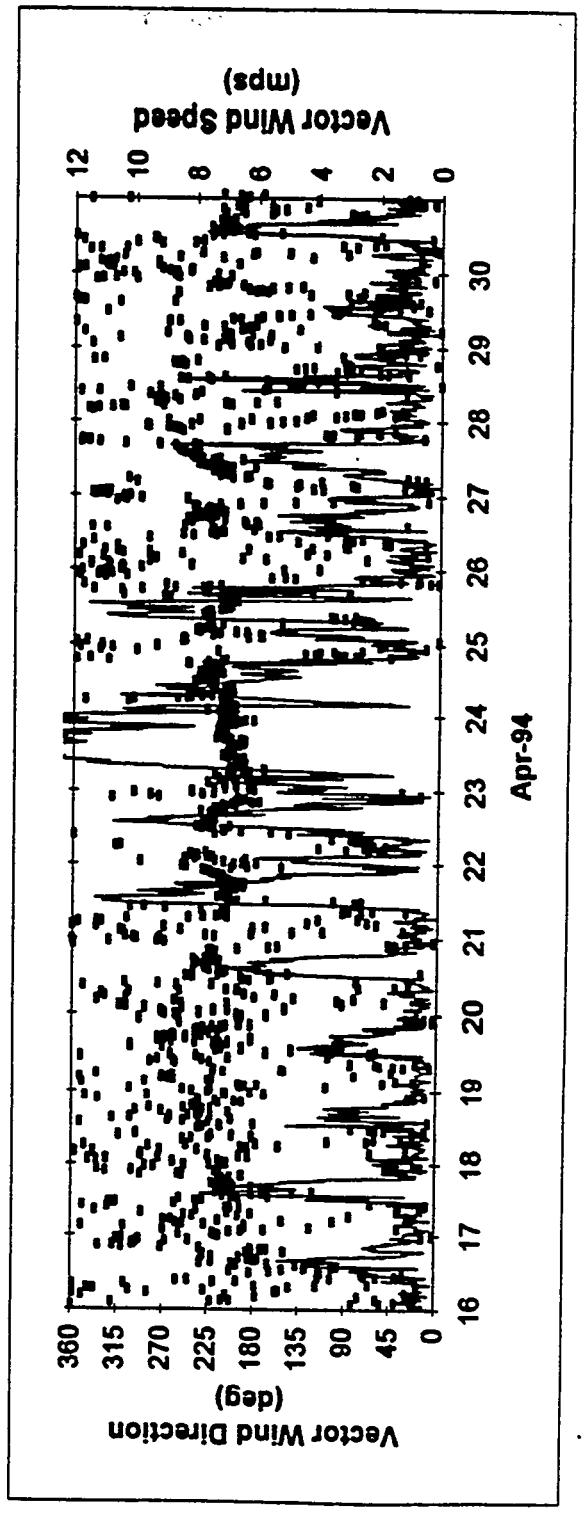

TEMPERATURE DIFFERENCE, 2 TO 16 METER
Deg C
10
8
6
4
2
0
-2
-4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Apr-94


SOLAR RADIATION
wpm2
1200
1000
800
600
400
200
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Apr-94

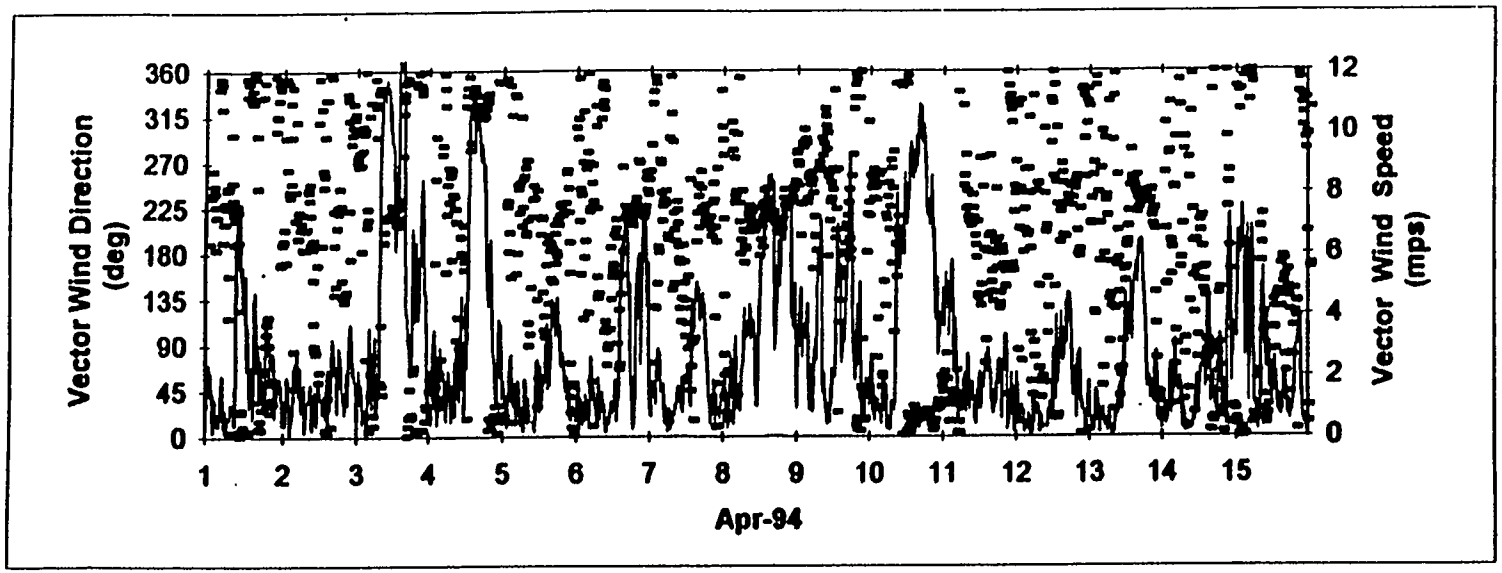

NET RADIATION
wpm2
500
400
300
200
100
0
-100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Apr-94

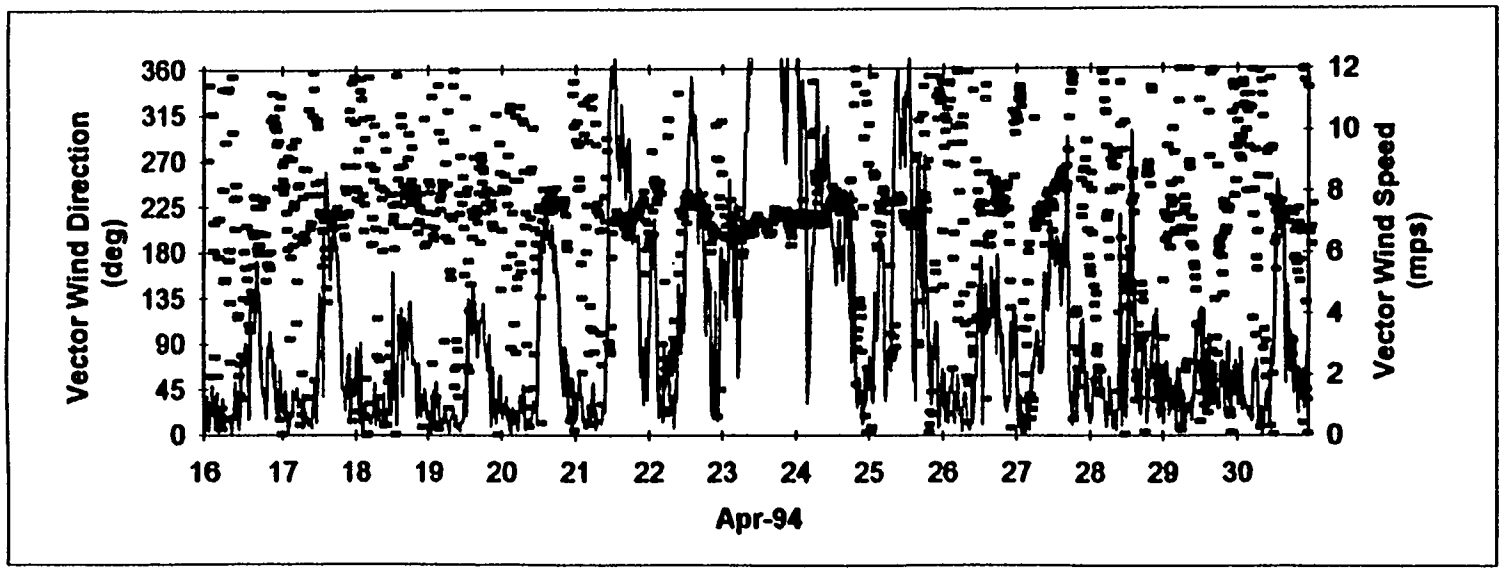
2 METER

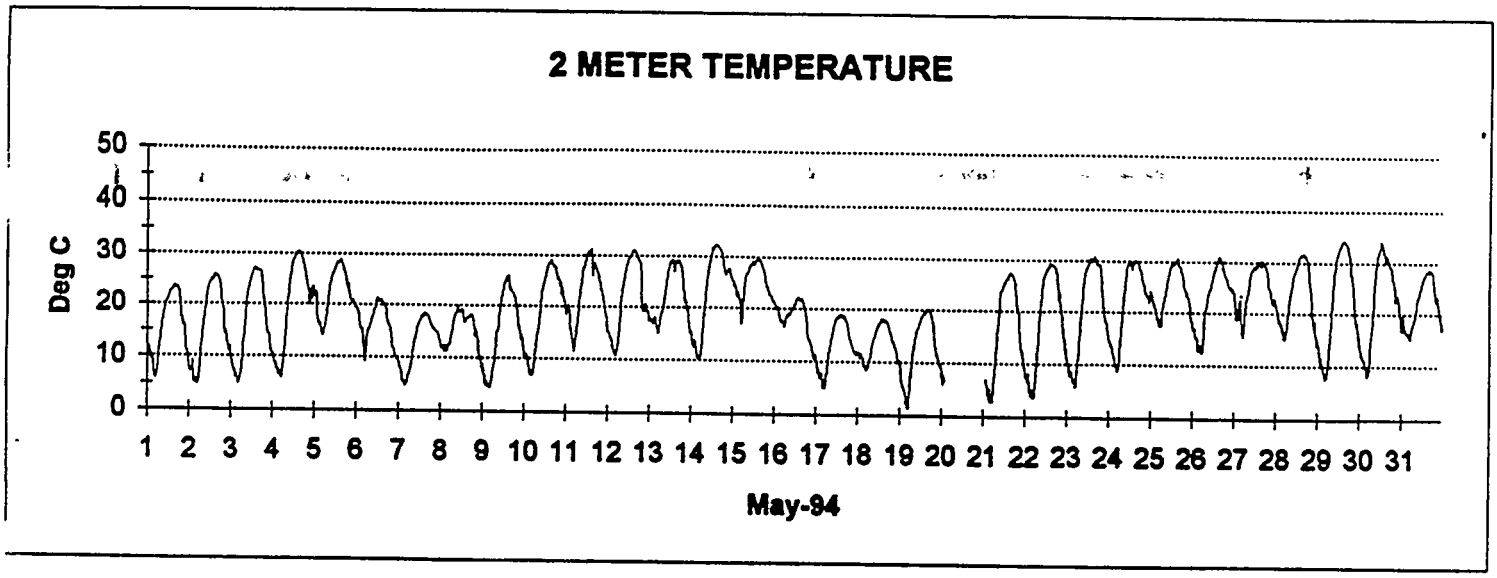

Vector Wind Direction
(deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed
(mps)
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Apr-94

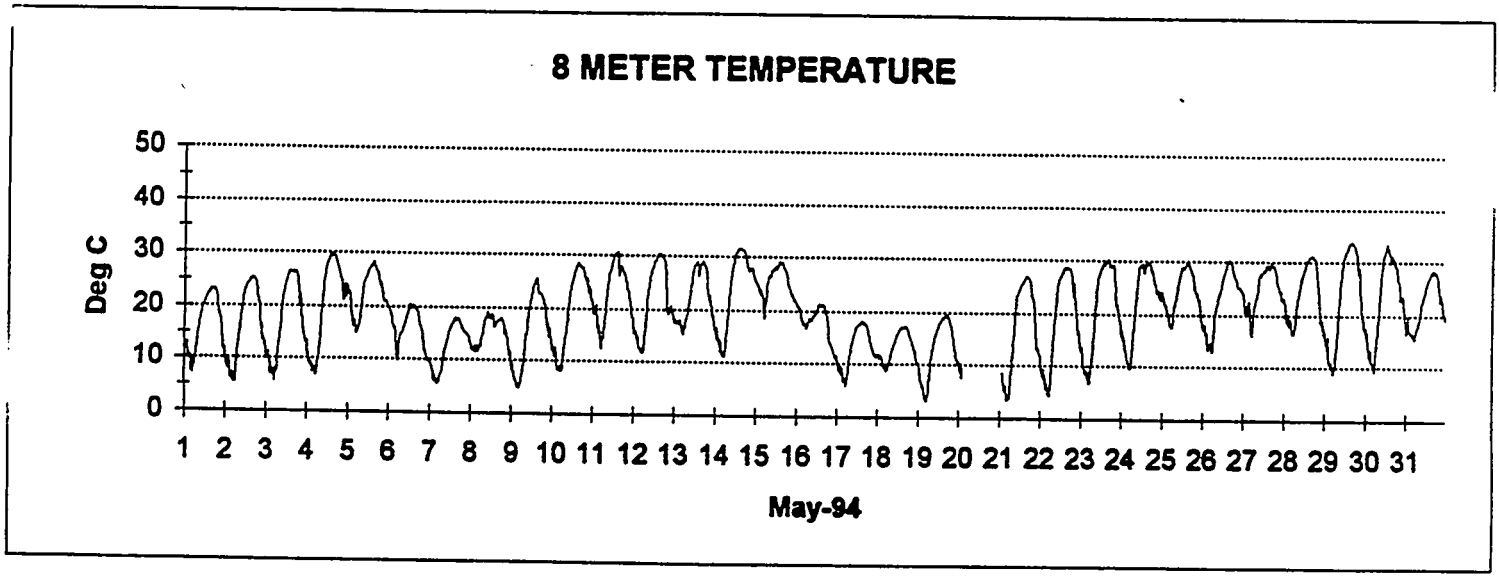

Vector Wind Direction
(deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed
(mps)
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Apr-94

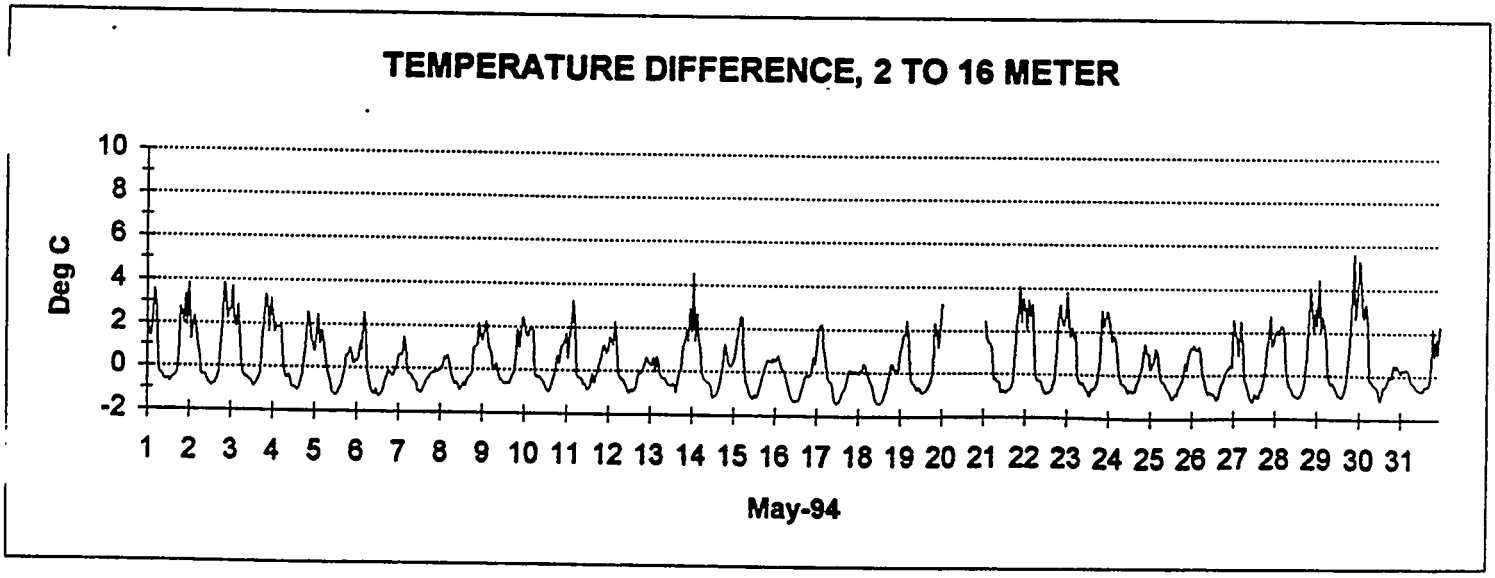
8 METER

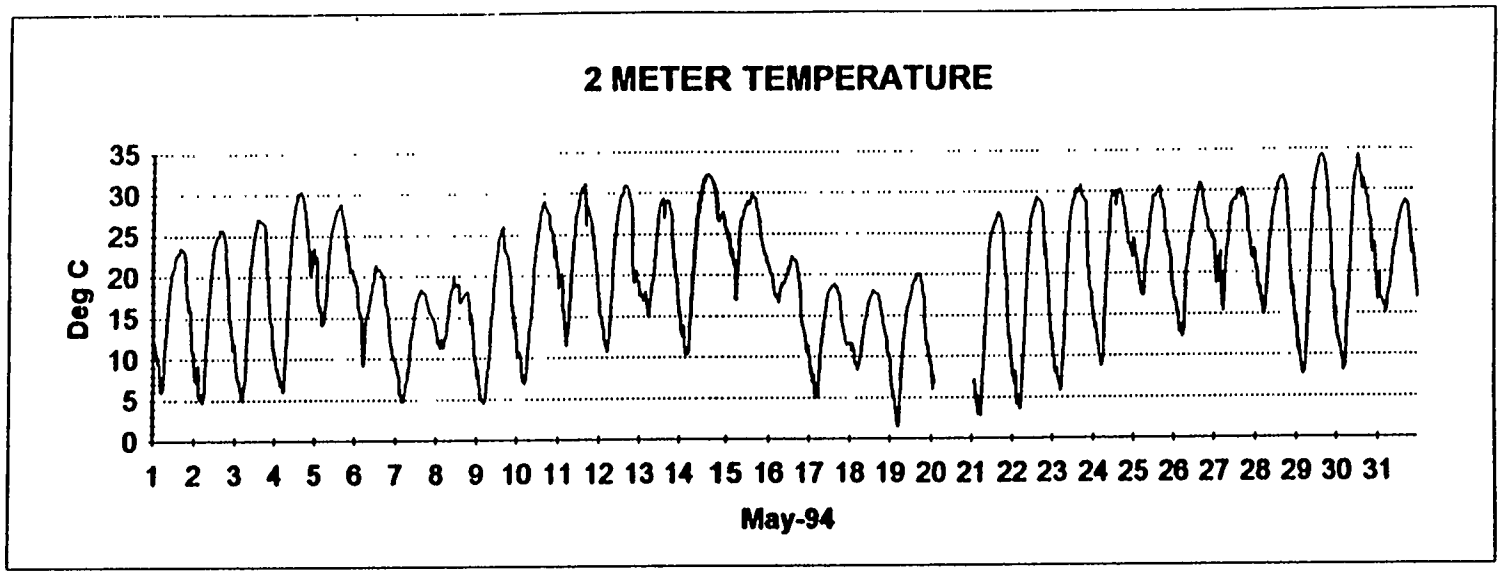

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Apr-94

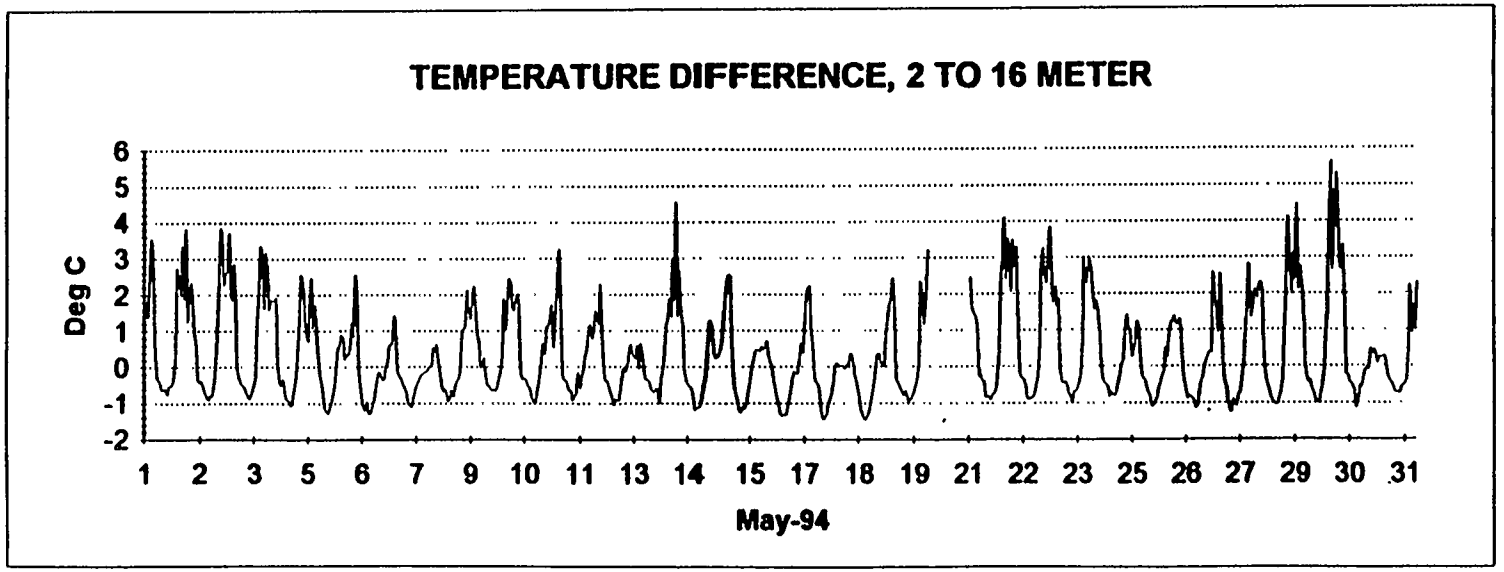

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Apr-94

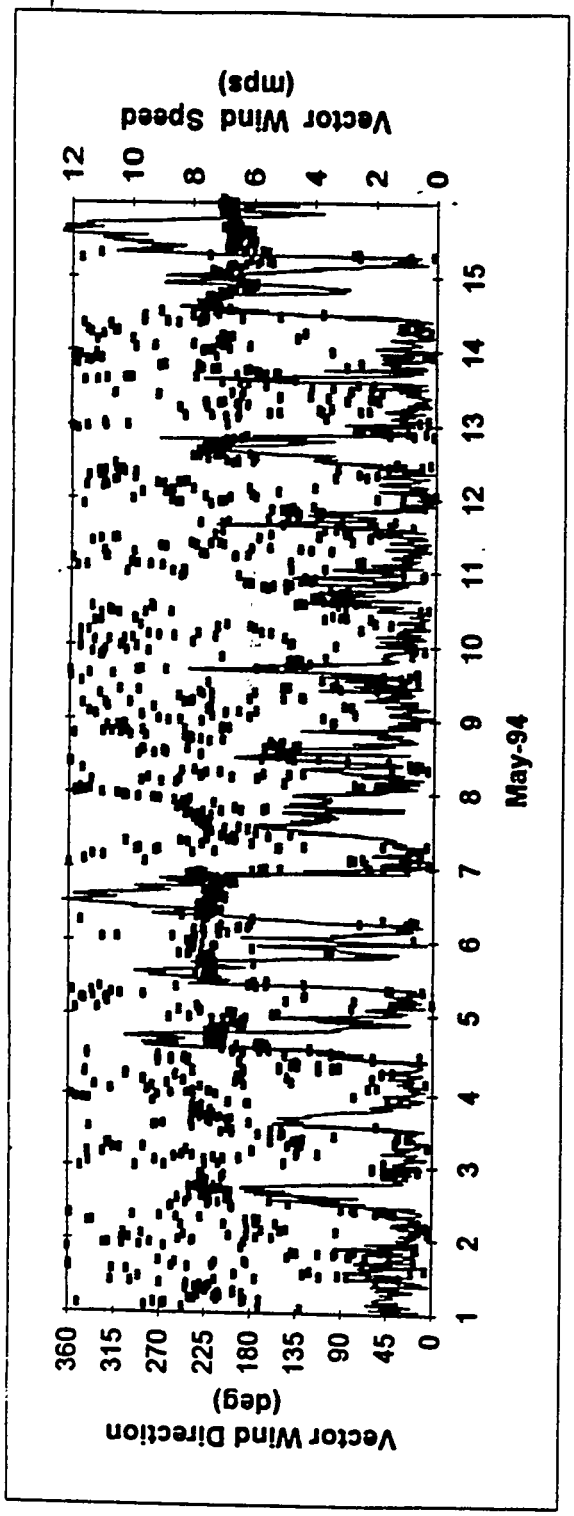

2 METER TEMPERATURE
Deg C
50
40
30
20
10
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
May-94

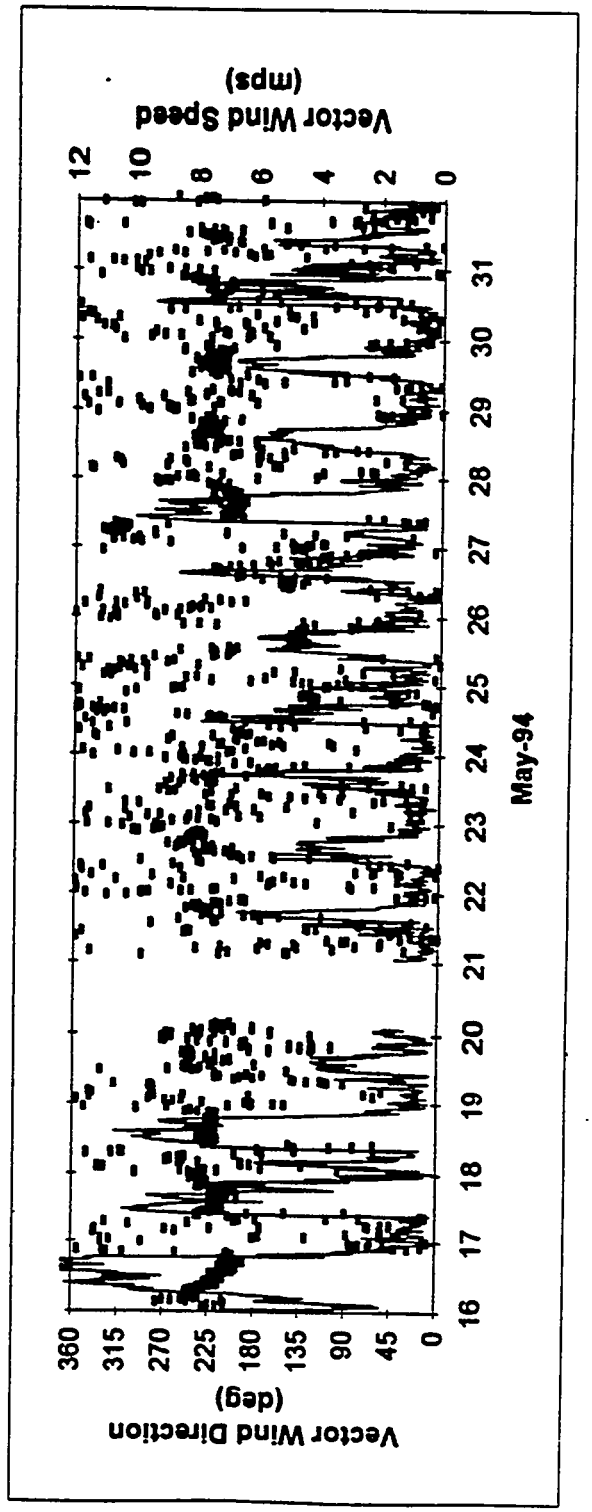

8 METER TEMPERATURE
Deg C
50
40
30
20
10
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
May-94

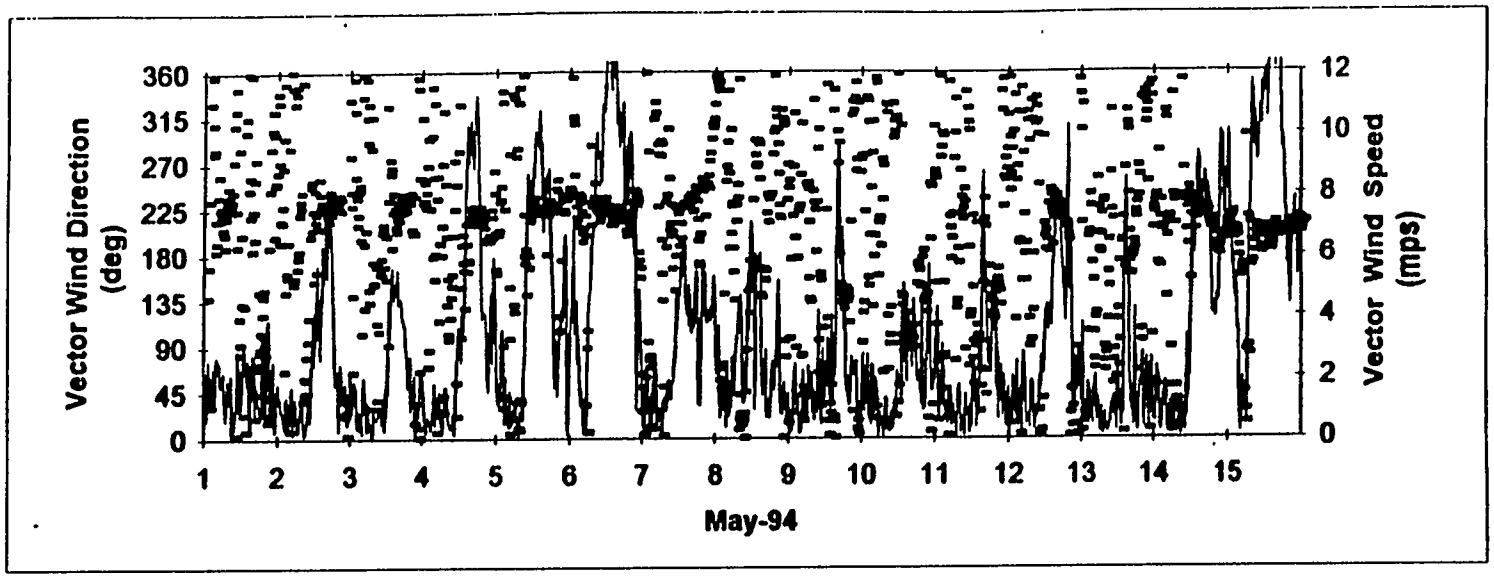

TEMPERATURE DIFFERENCE, 2 TO 16 METER
Deg C
10
8
6
4
2
0
-2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
May-94

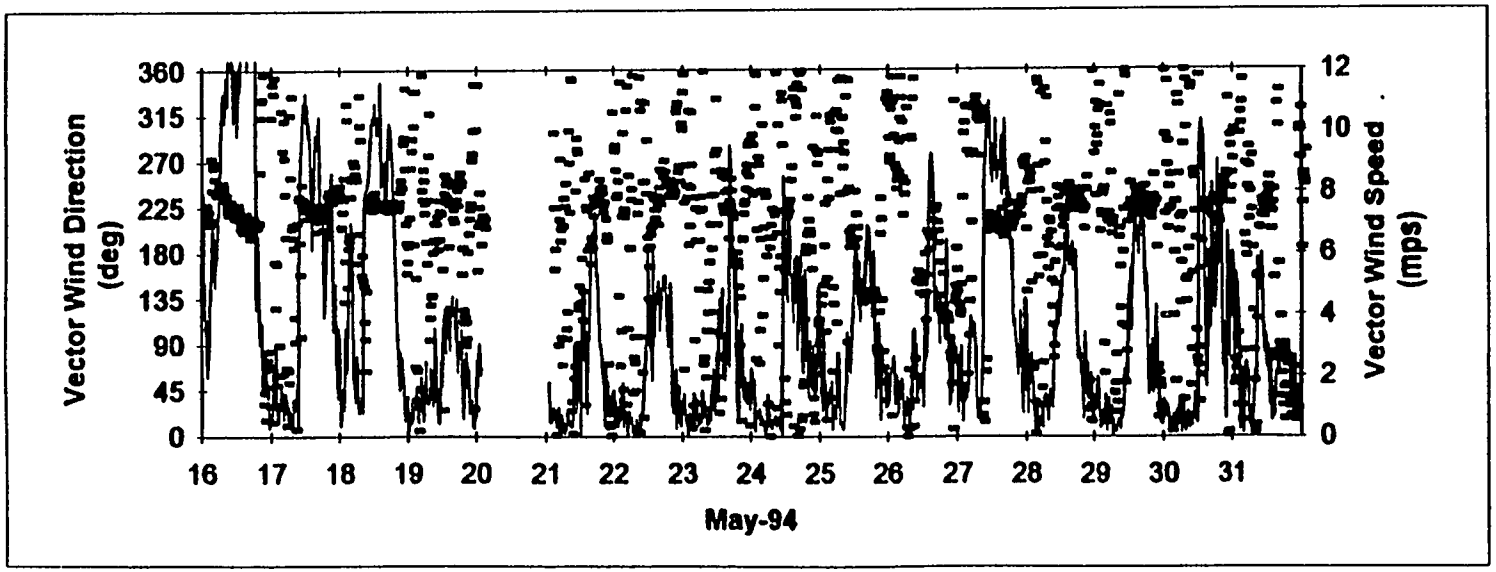

2 METER TEMPERATURE
Deg C
35
30
25
20
15
10
5
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
May-94

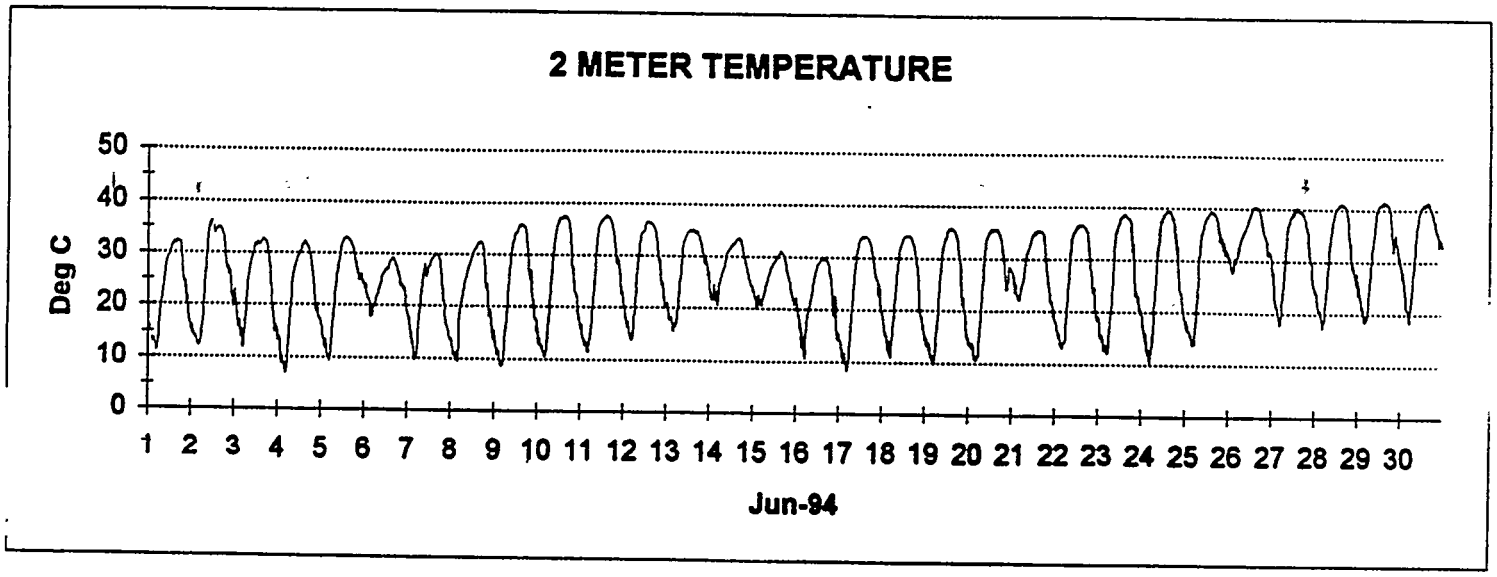

TEMPERATURE DIFFERENCE, 2 TO 16 METER
Deg C
6
5
4
3
2
1
0
-1
-2
1 2 3 5 6 7 9 10 11 13 14 15 17 18 19 21 22 23 25 26 27 29 30 31
May-94

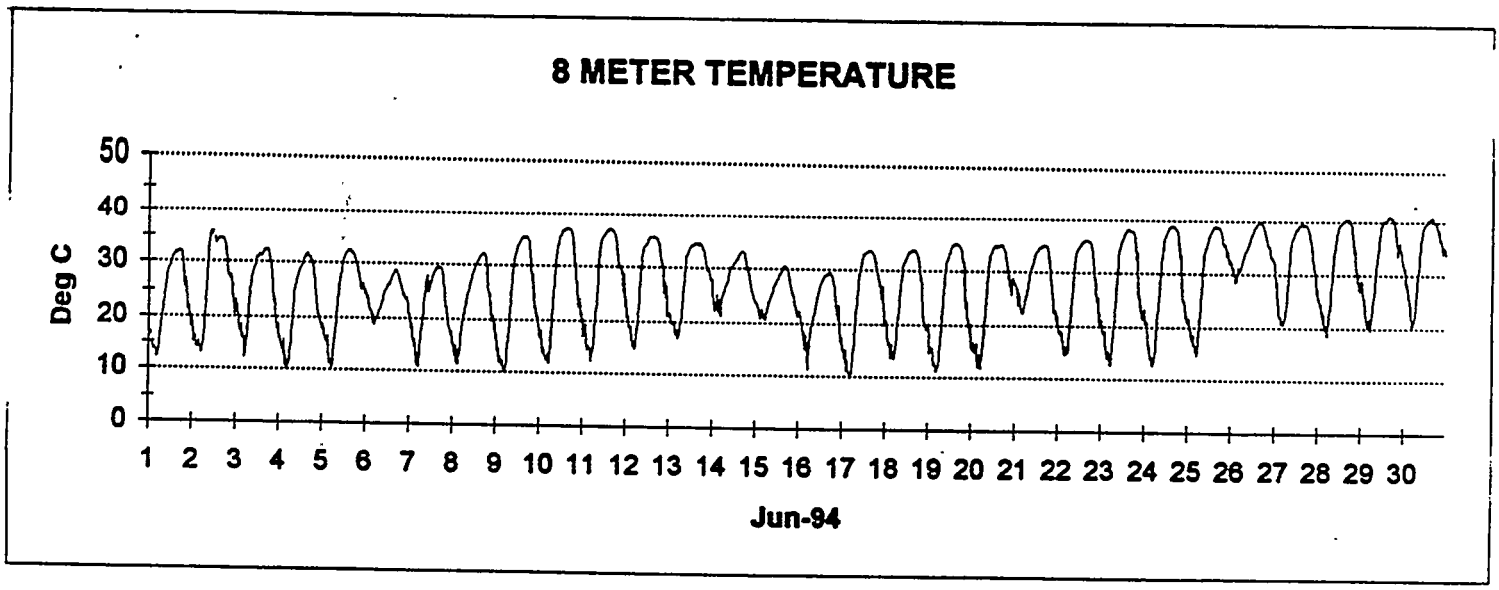

Vector Wind Direction
(deg)
360
315
270
225
180
135
90
45
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
May-94
Vector Wind Speed
(mps)
12 10 8 6 4 2 0

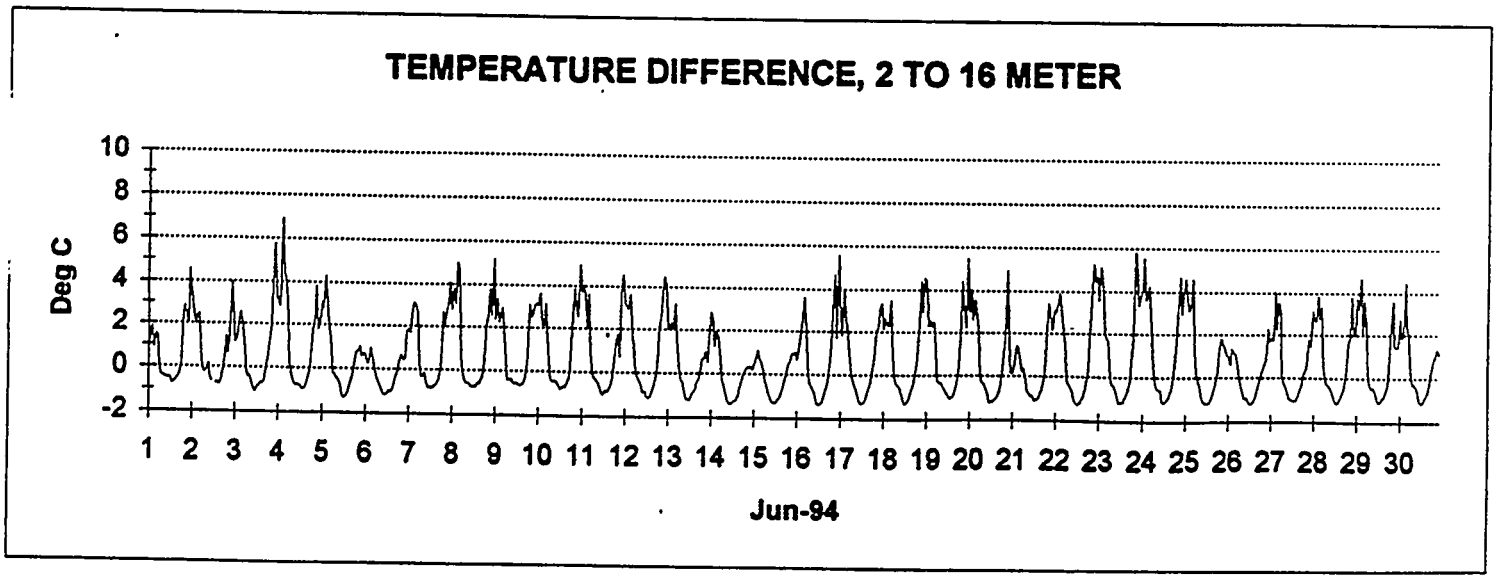

Vector Wind Direction
(deg)
360
315
270
225
180
135
90
45
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
May-94
Vector Wind Speed
(mps)
12 10 8 6 4 2 0

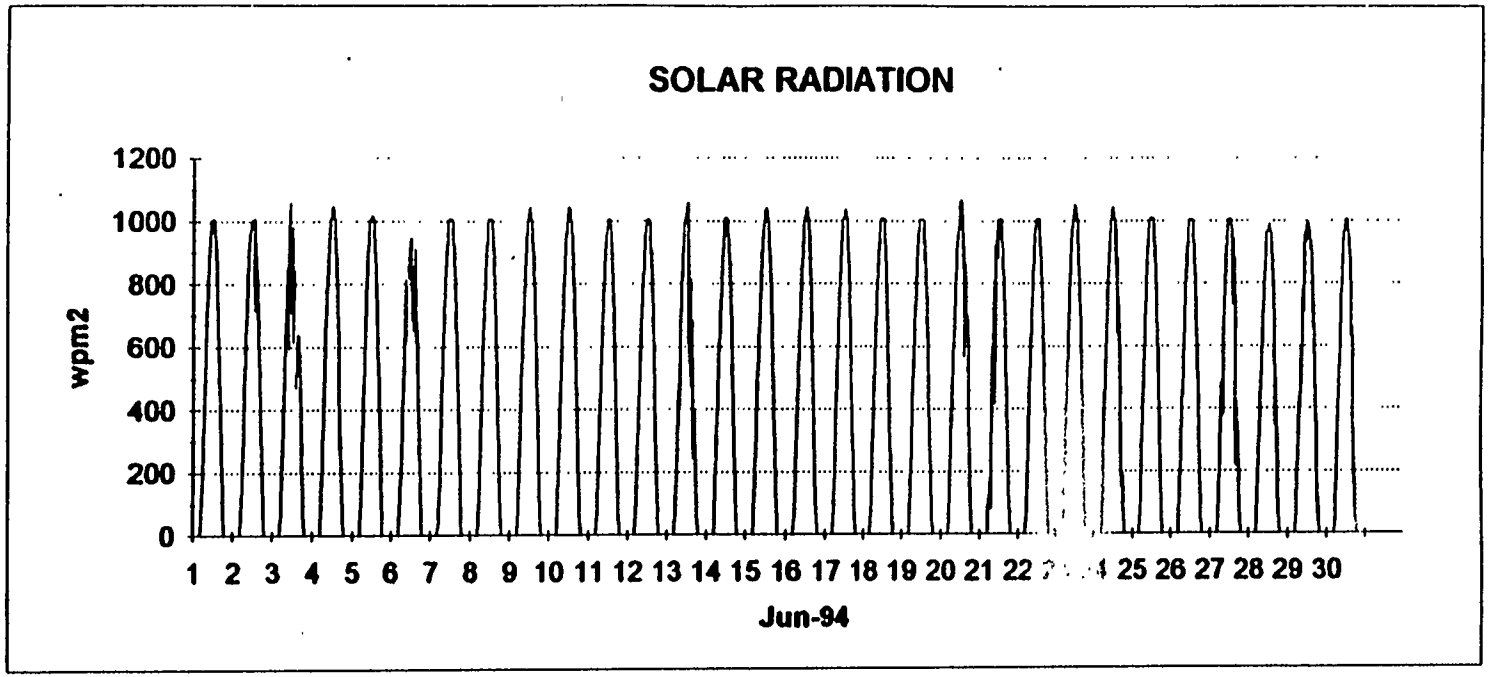

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
May-94
Vector Wind Speed (mps)
12
10
8
6
4
2
0

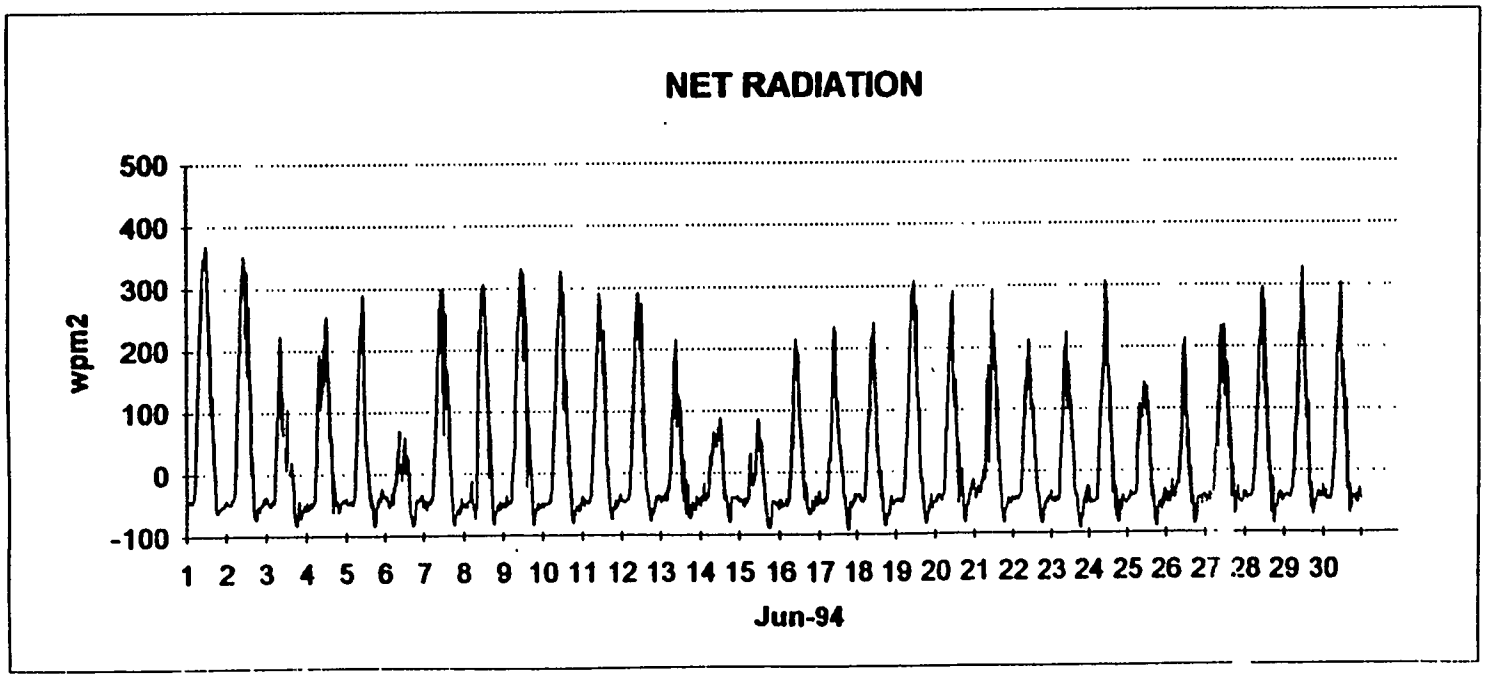

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
May-94
Vector Wind Speed (mps)
12
10
8
6
4
2
0


2 METER TEMPERATURE
Deg C
50
40
30
20
10
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Jun-94

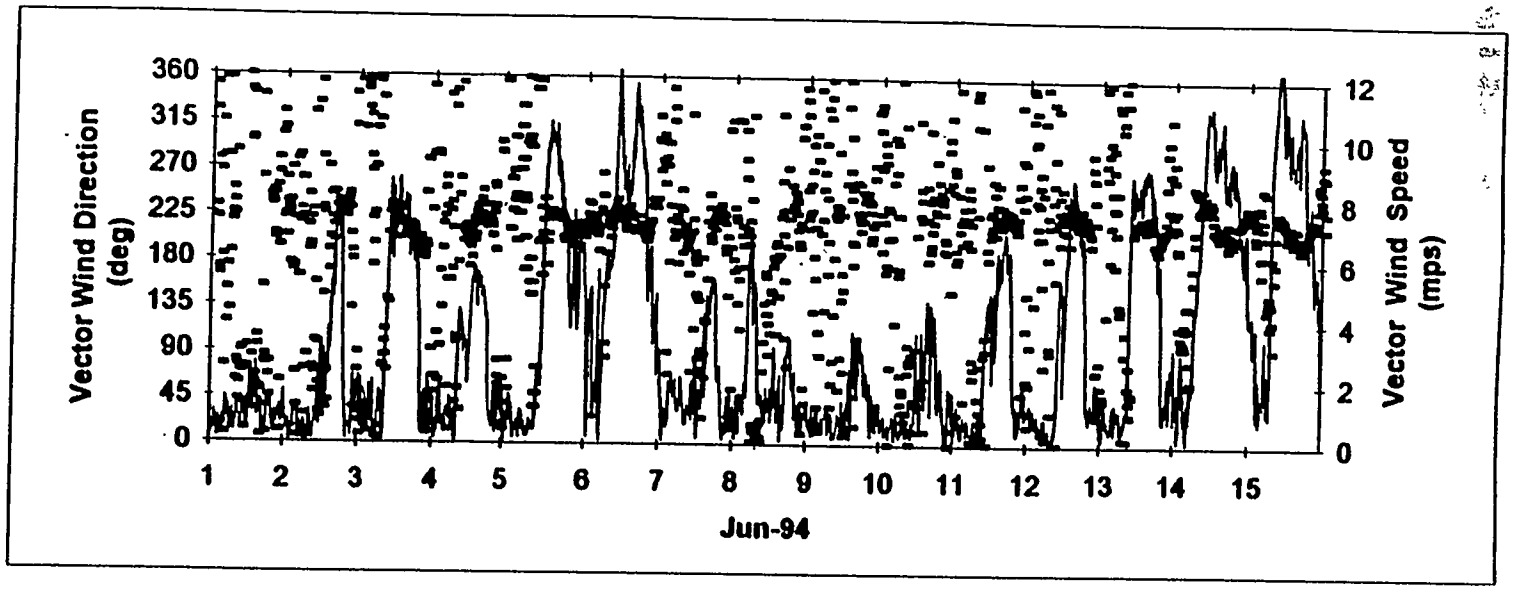

8 METER TEMPERATURE
Deg C
50
40
30
20
10
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Jun-94

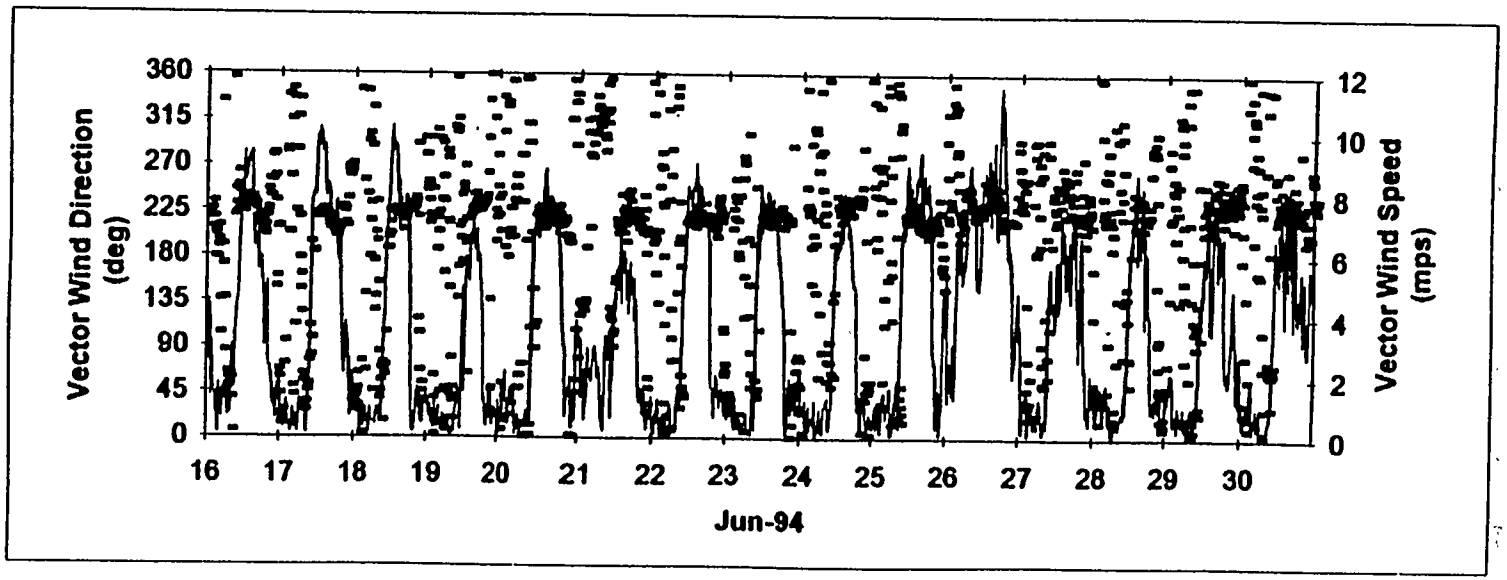

TEMPERATURE DIFFERENCE, 2 TO 16 METER
Deg C
10
8
6
4
2
0
-2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Jun-94


SOLAR RADIATION
wpm2
1200
1000
800
600
400
200
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 25 26 27 28 29 30
Jun-94

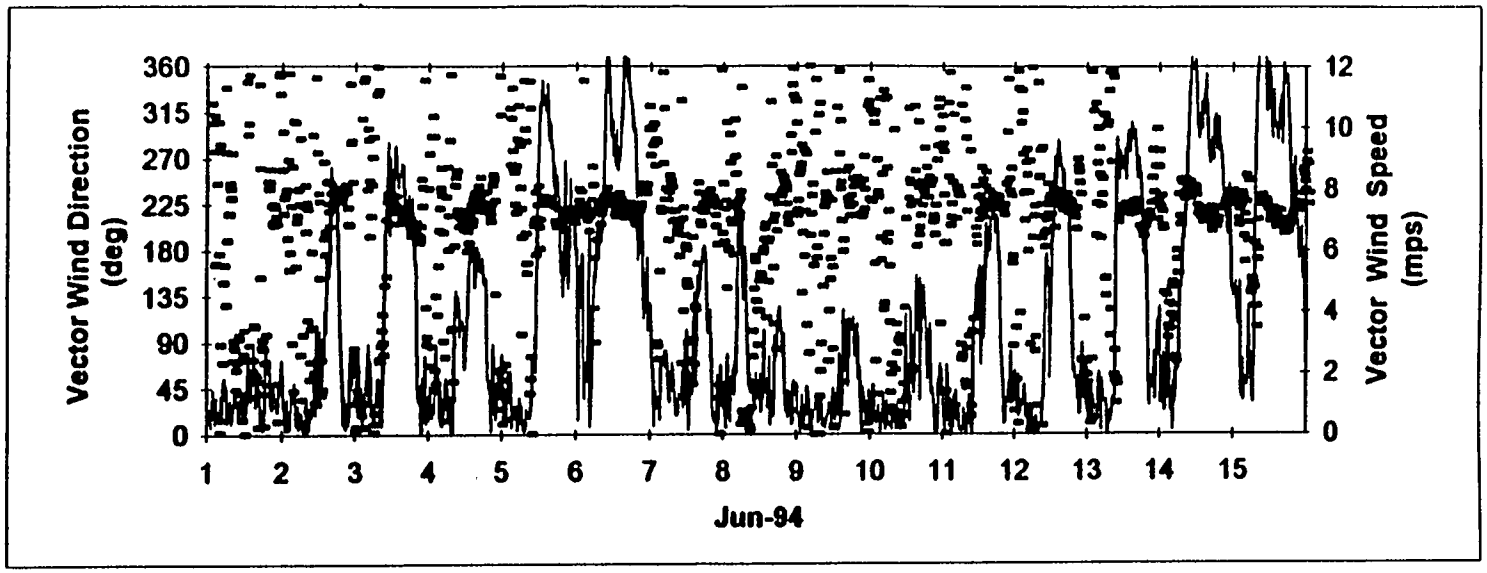

NET RADIATION
wpm2
500
400
300
200
100
0
-100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Jun-94

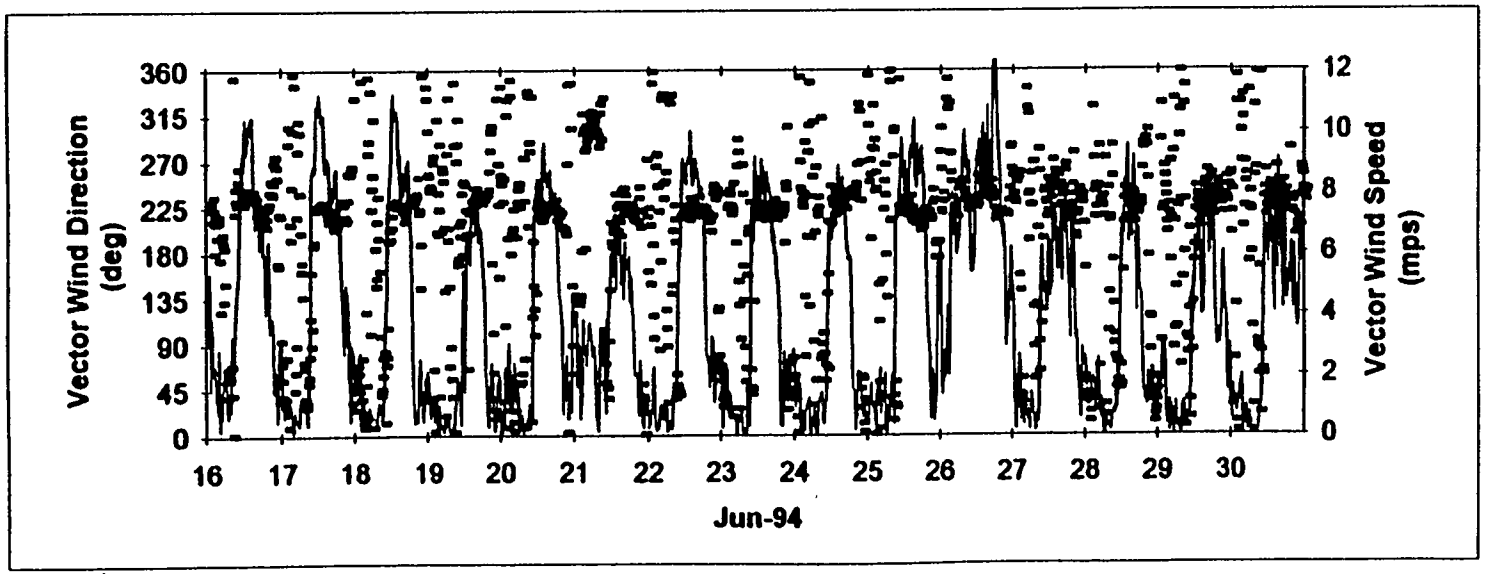
2 METER

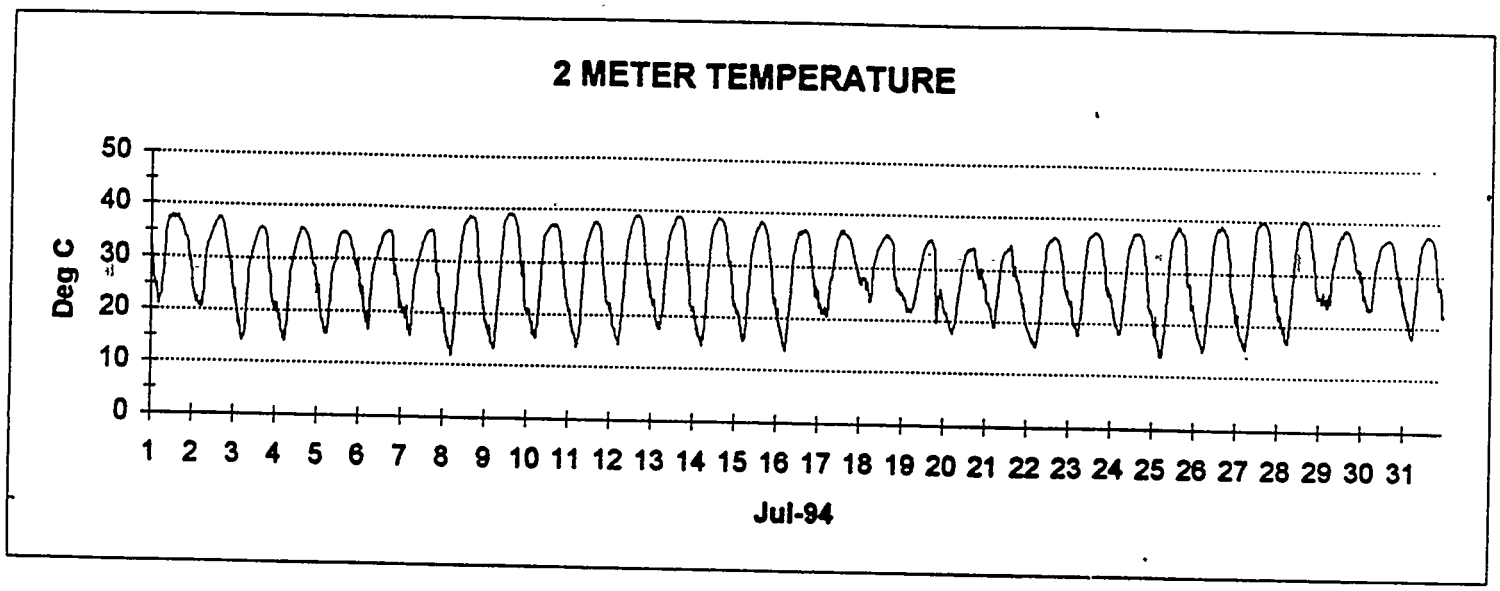

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Jun-94

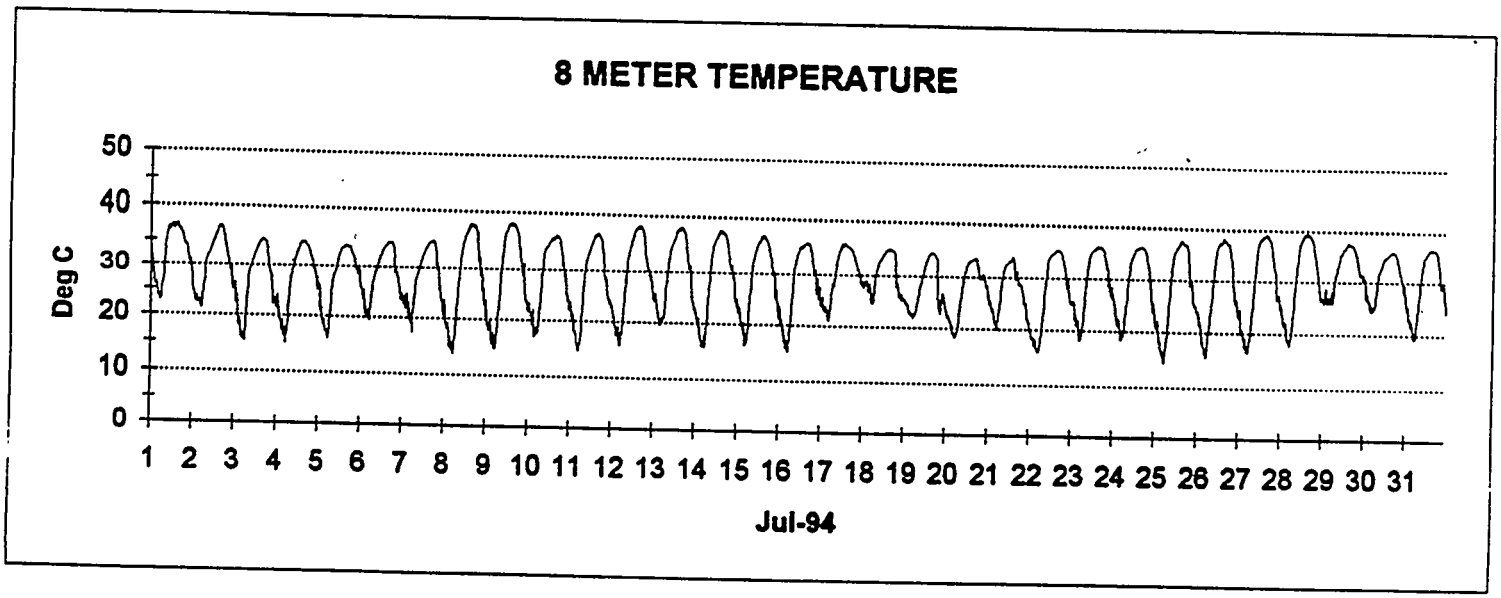

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Jun-94

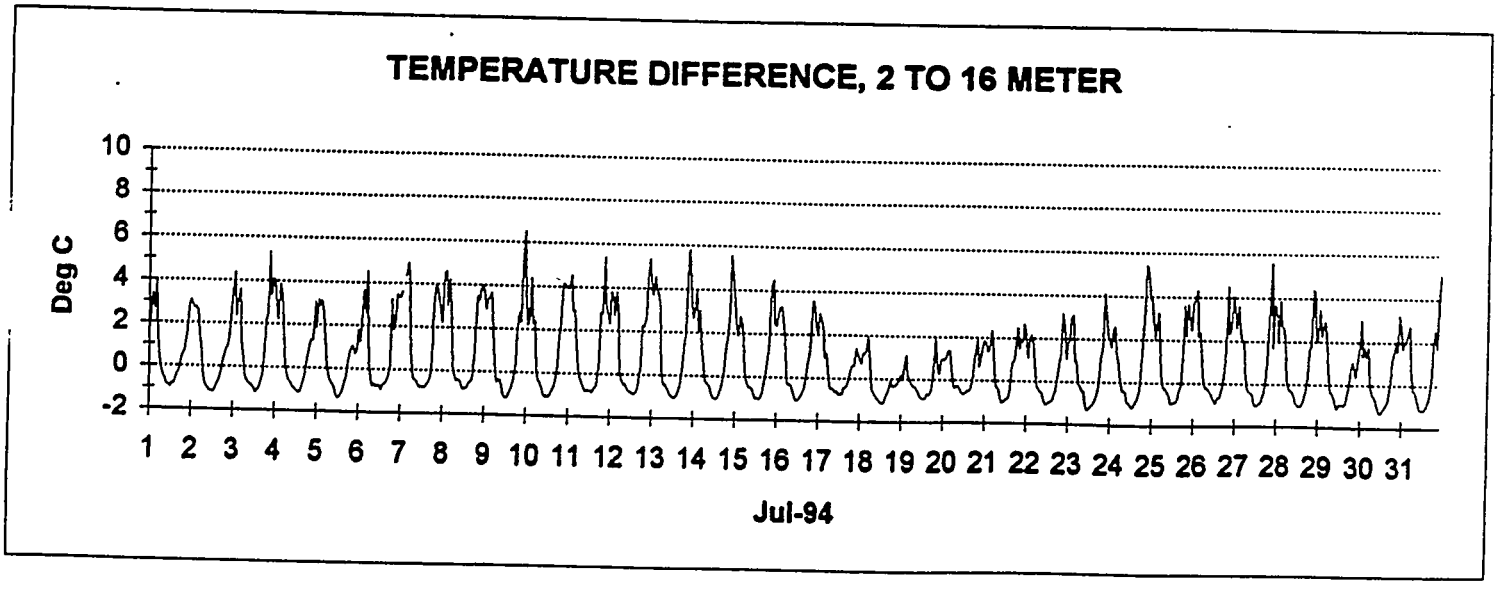
8 METER

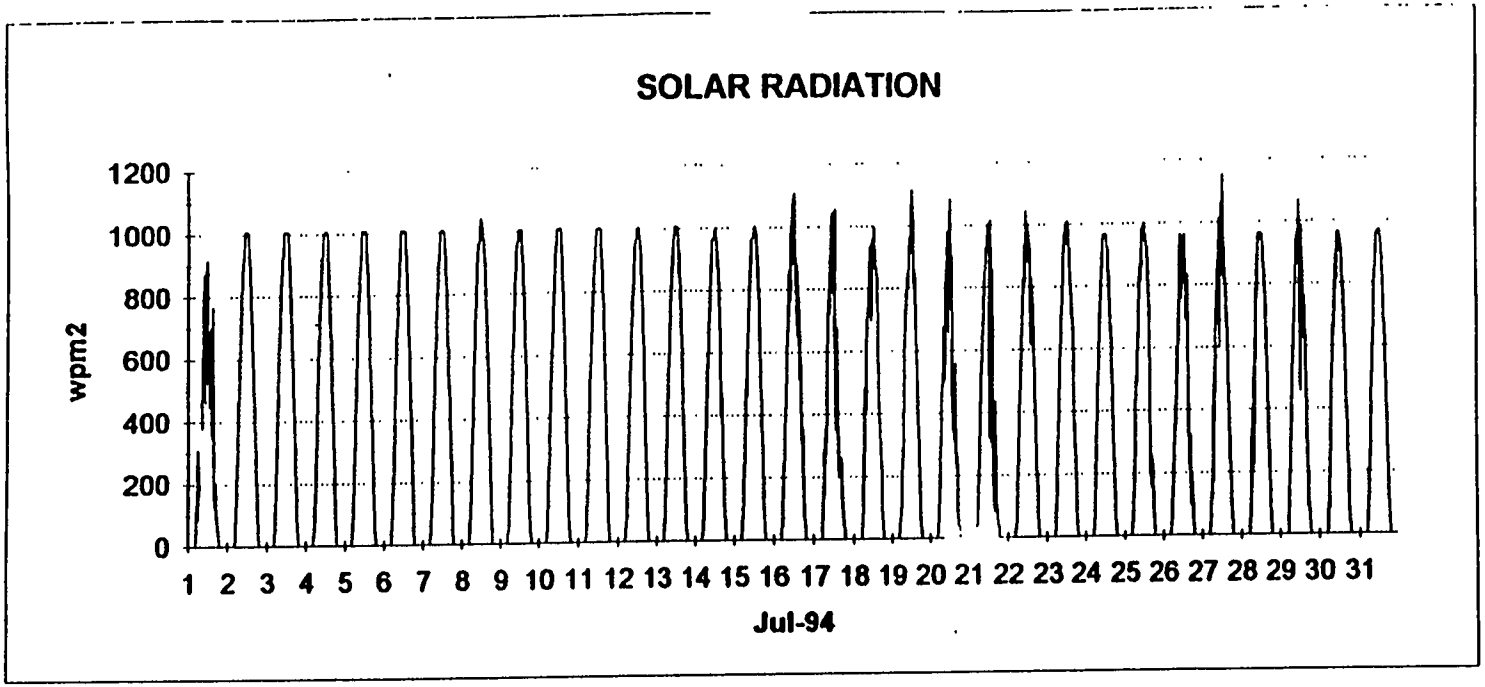

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Jun-94

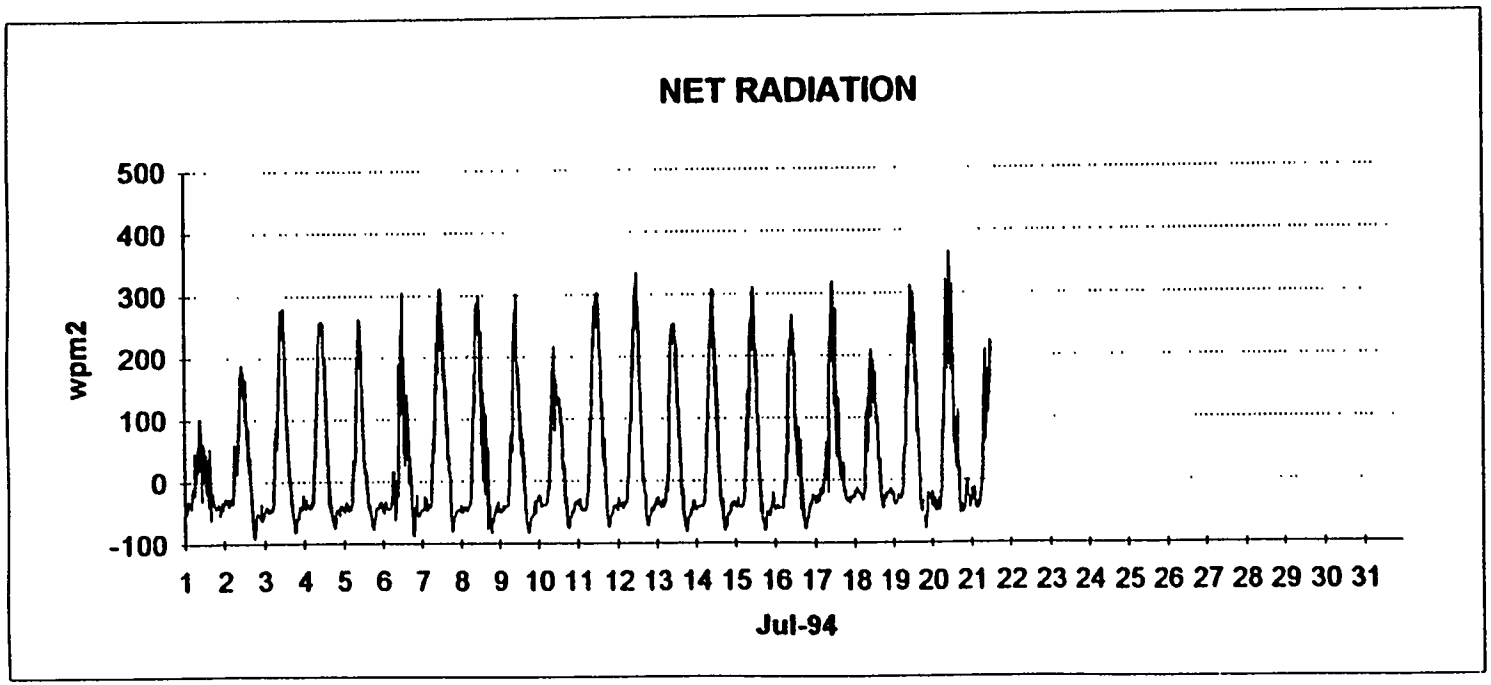

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Jun-94


2 METER TEMPERATURE
Deg C
50
40
30
20
10
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Jul-94

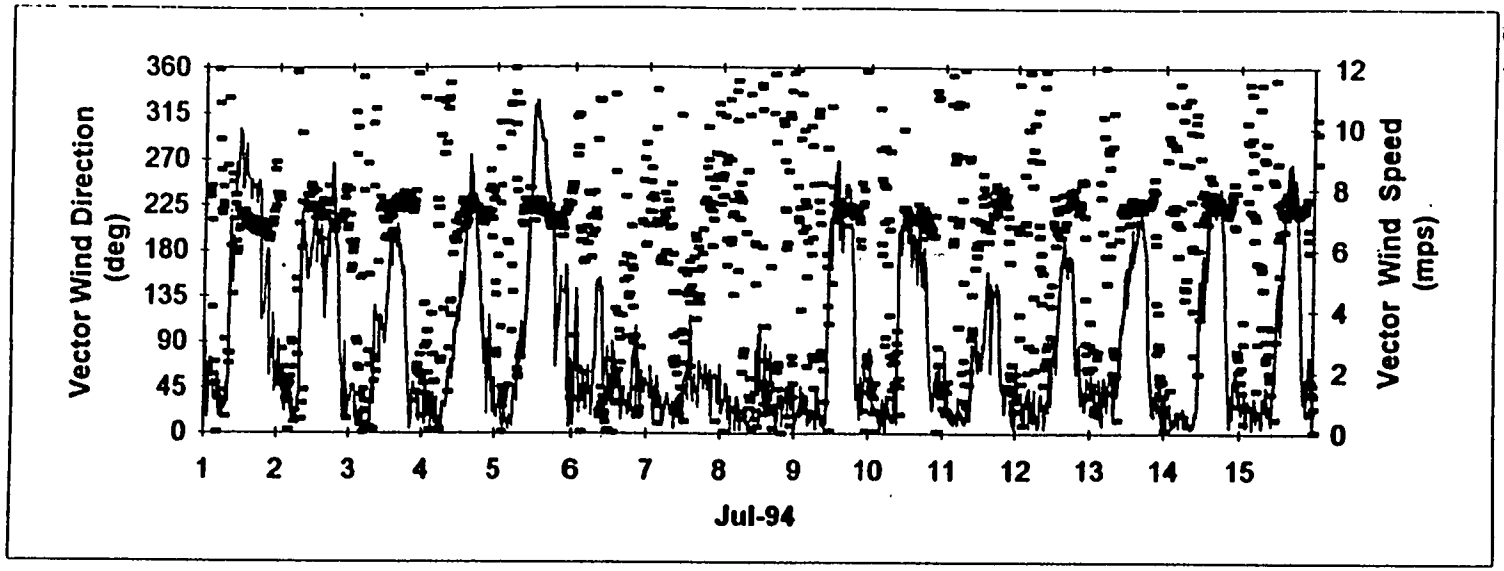

8 METER TEMPERATURE
Deg C
50
40
30
20
10
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Jul-94

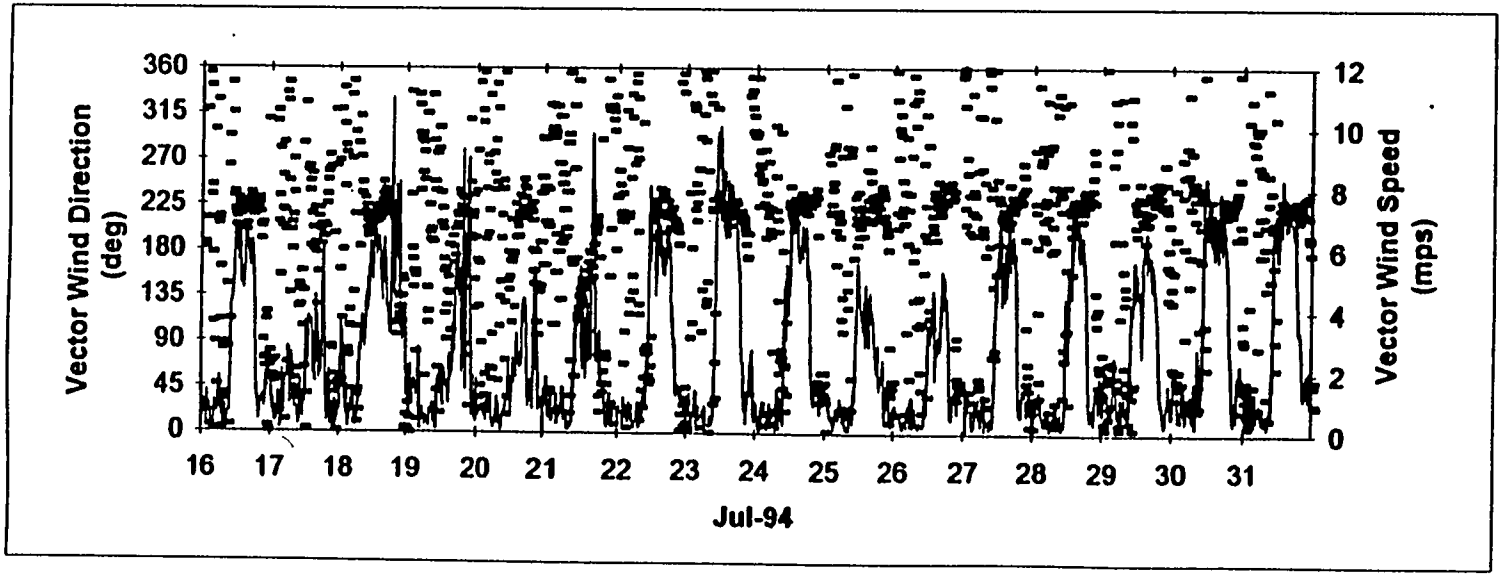

TEMPERATURE DIFFERENCE, 2 TO 16 METER
Deg C
10
8
6
4
2
0
-2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Jul-94


SOLAR RADIATION
wpm2
1200
1000
800
600
400
200
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Jul-94

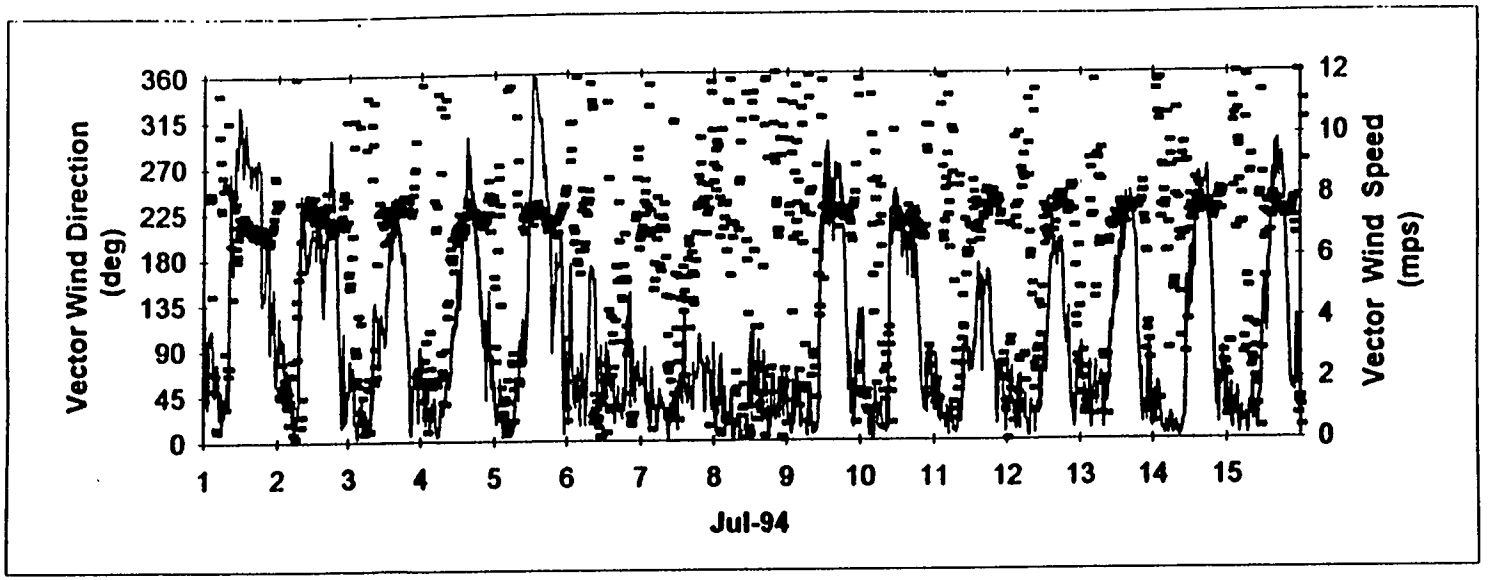

NET RADIATION
wpm2
500
400
300
200
100
0
-100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Jul-94

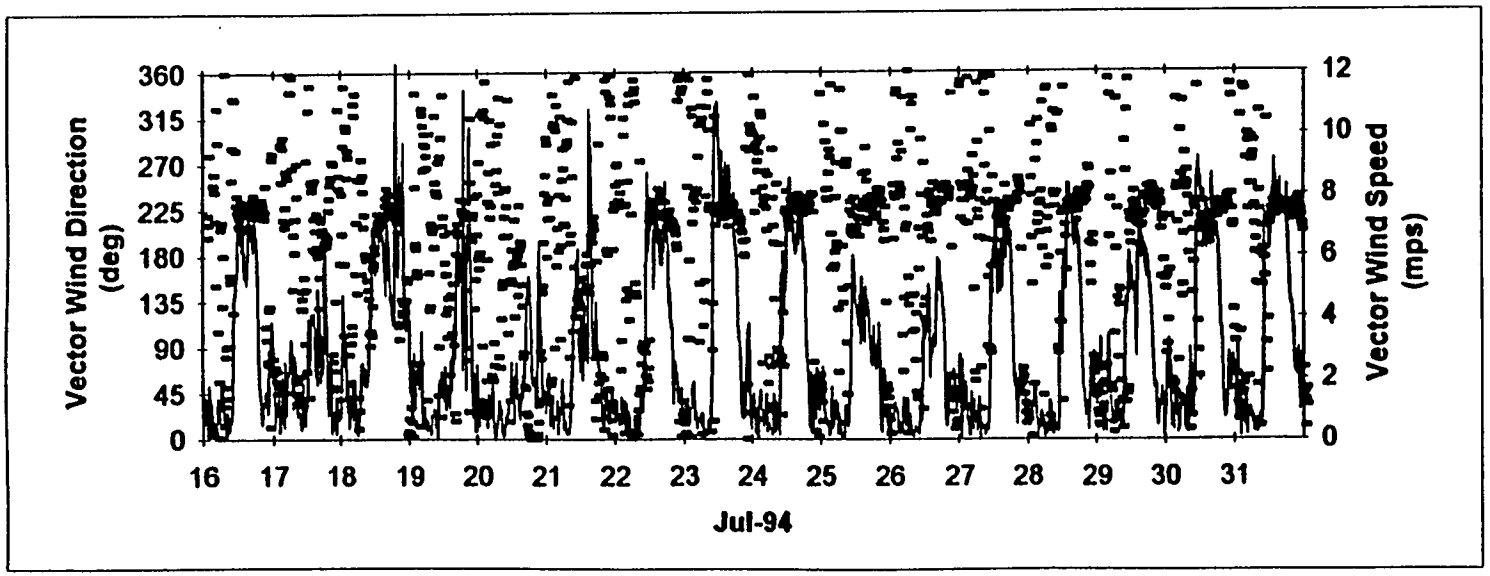
2 METER

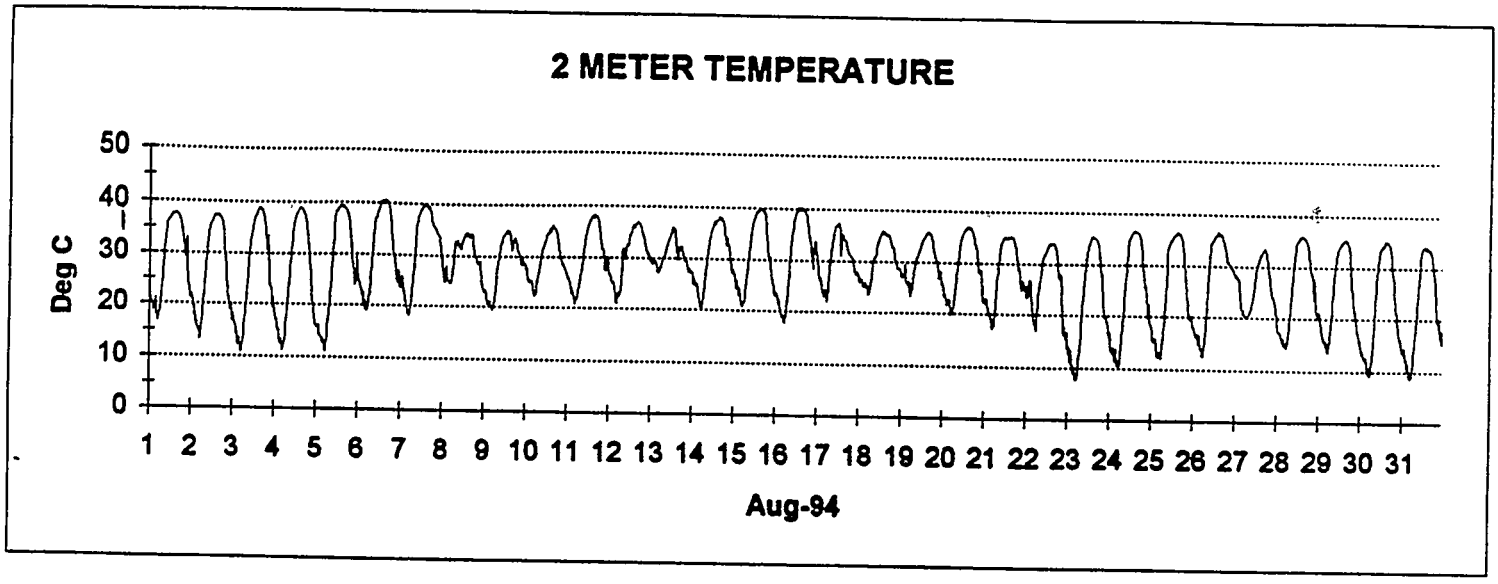

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Jul-94

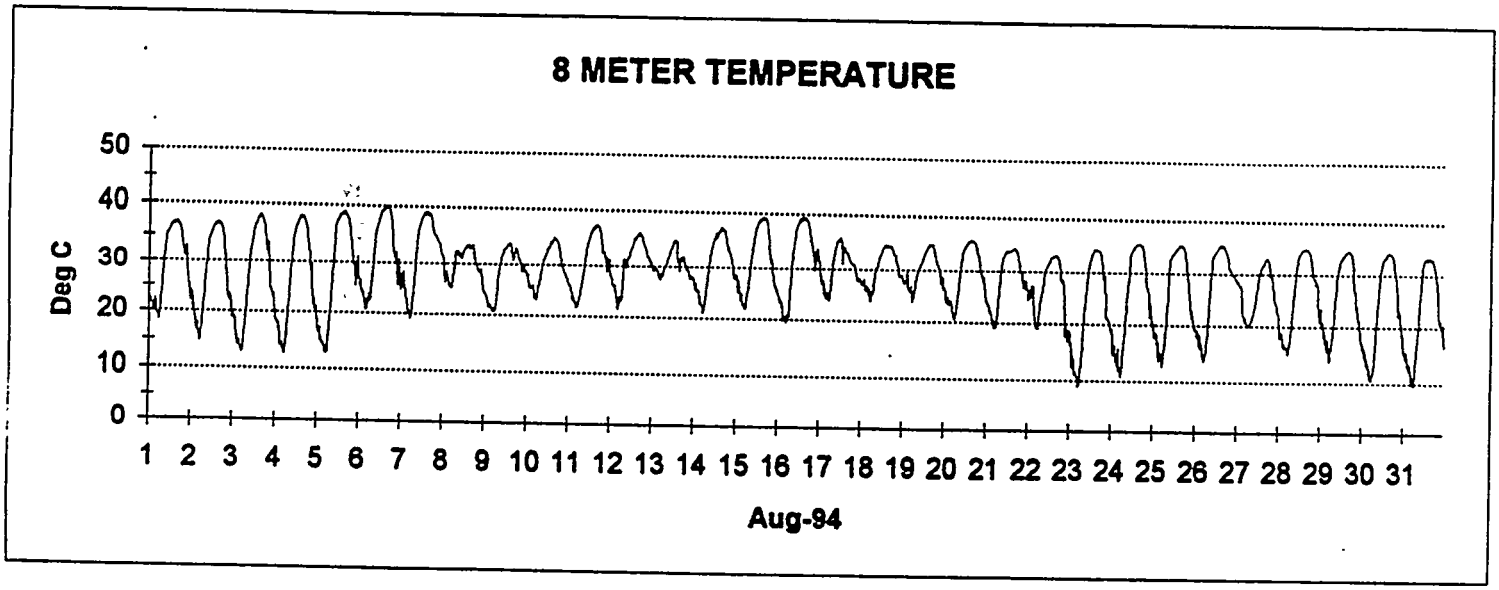

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Jul-94

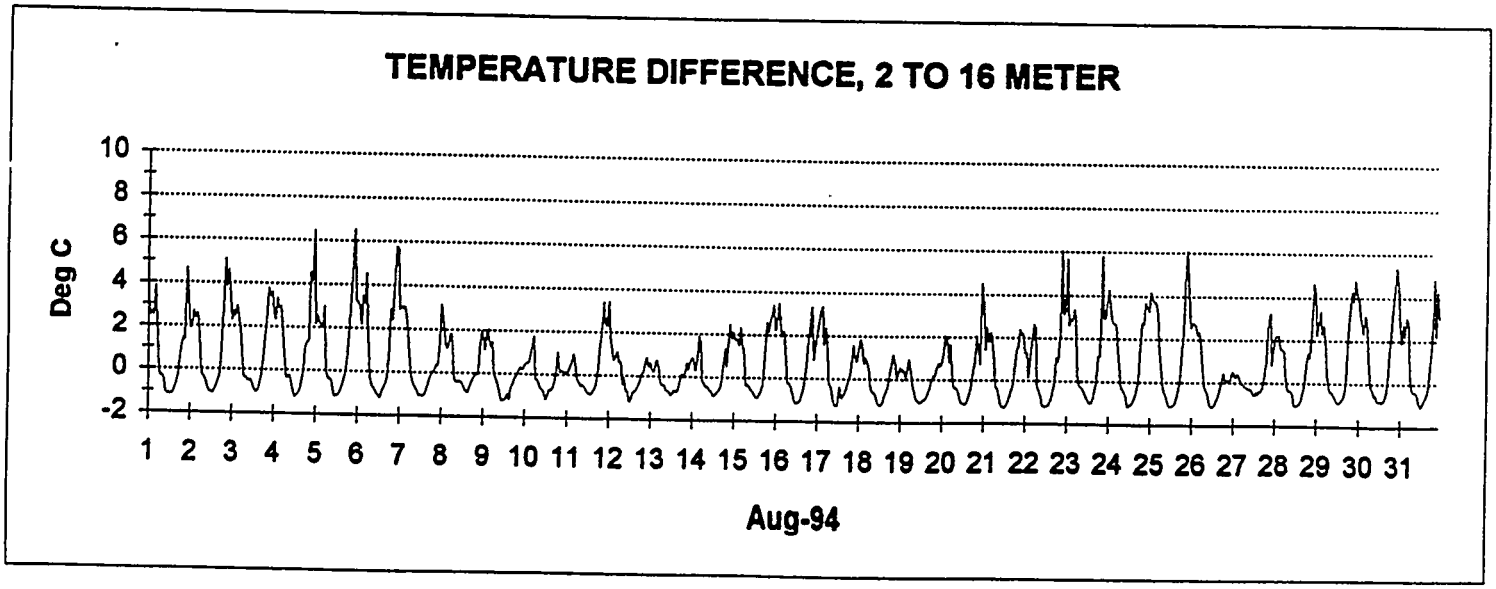
8 METER

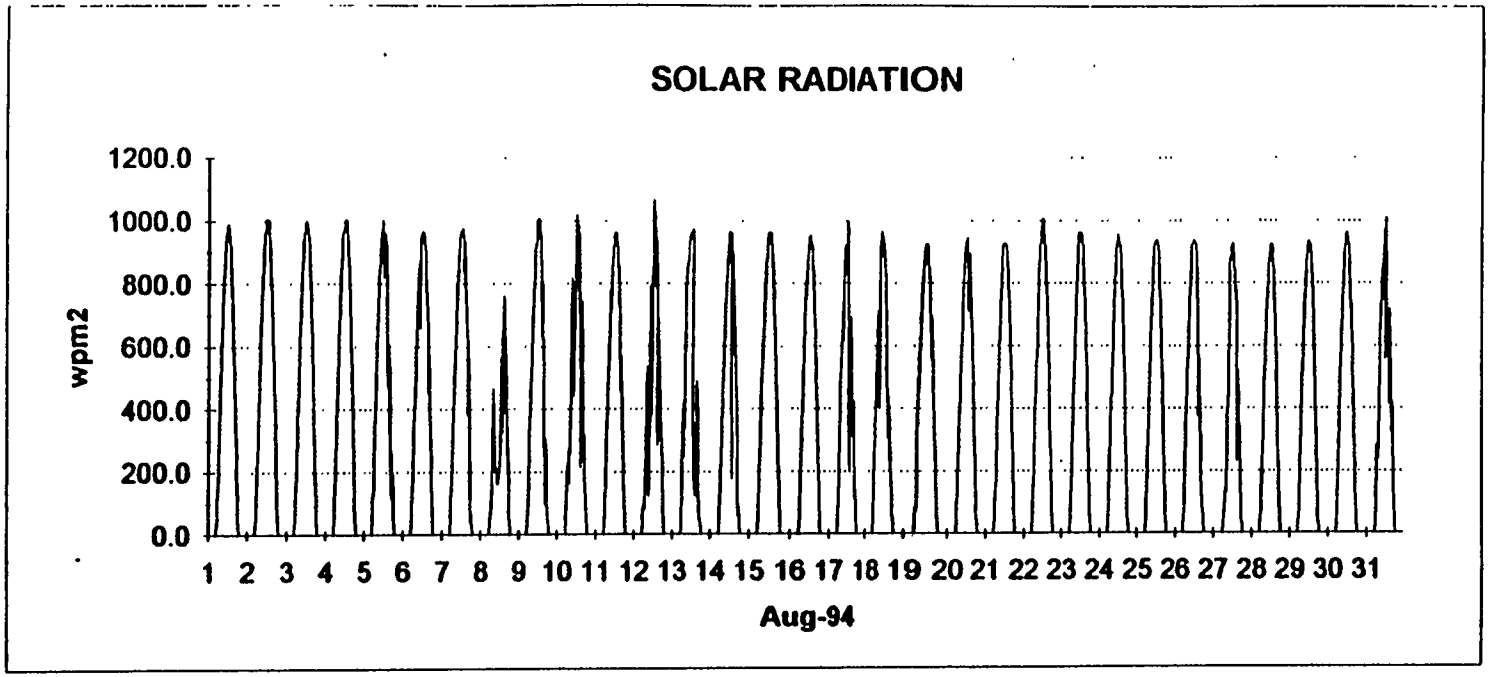

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Jul-94

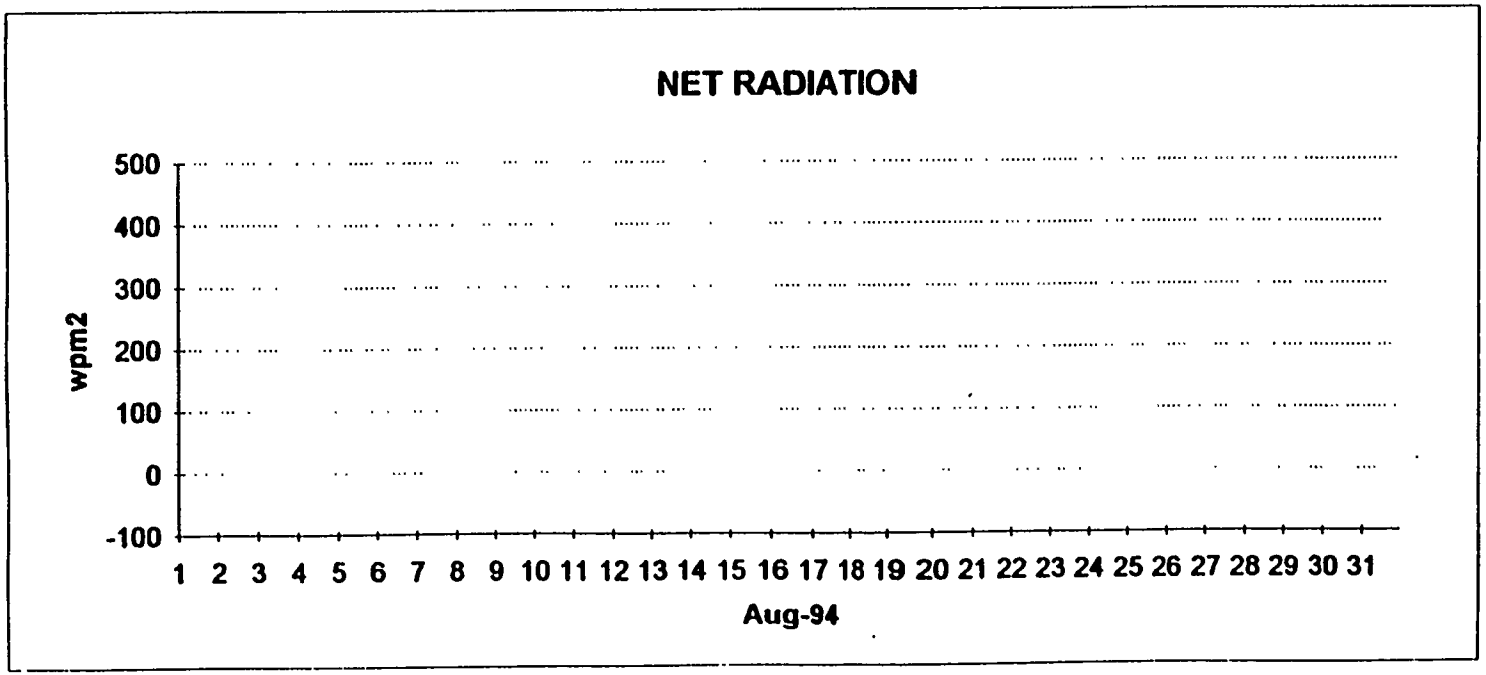

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Jul-94


2 METER TEMPERATURE
Deg C
50
40
30
20
10
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Aug-94

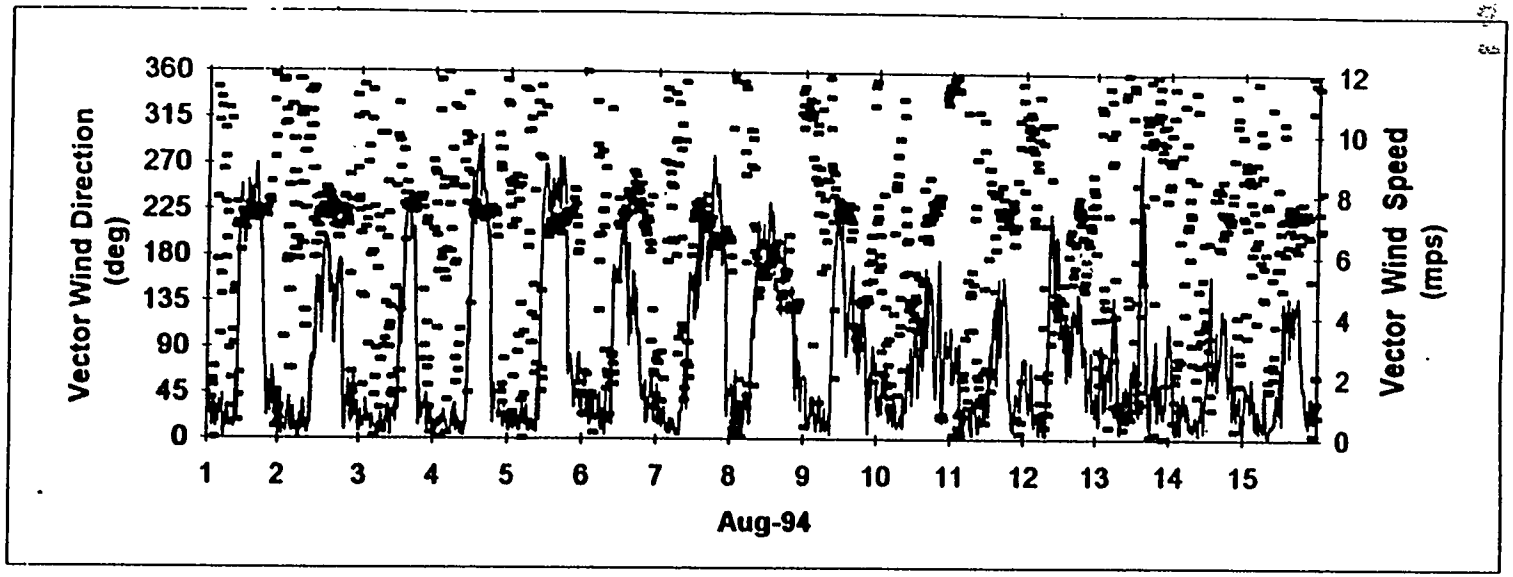

8 METER TEMPERATURE
Deg C
50
40
30
20
10
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Aug-94

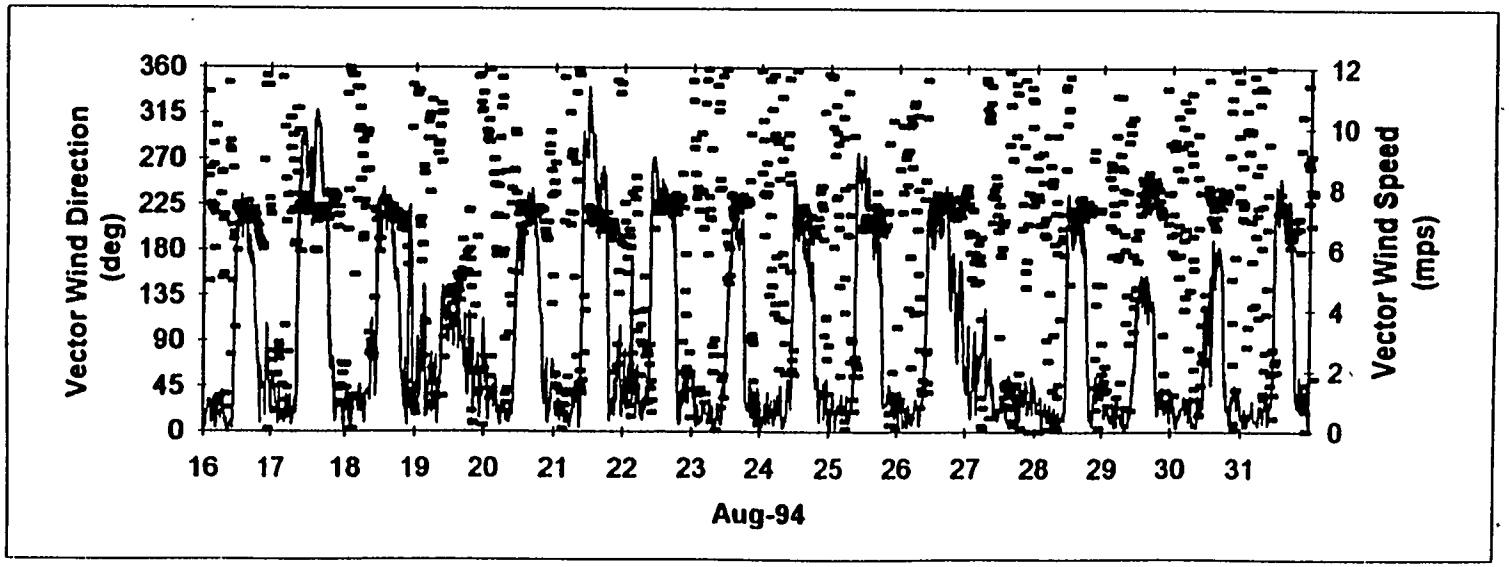

TEMPERATURE DIFFERENCE, 2 TO 16 METER
Deg C
10
8
6
4
2
0
-2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Aug-94


SOLAR RADIATION
1200.0
1000.0
800.0
600.0
400.0
200.0
0.0
wpm2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Aug-94

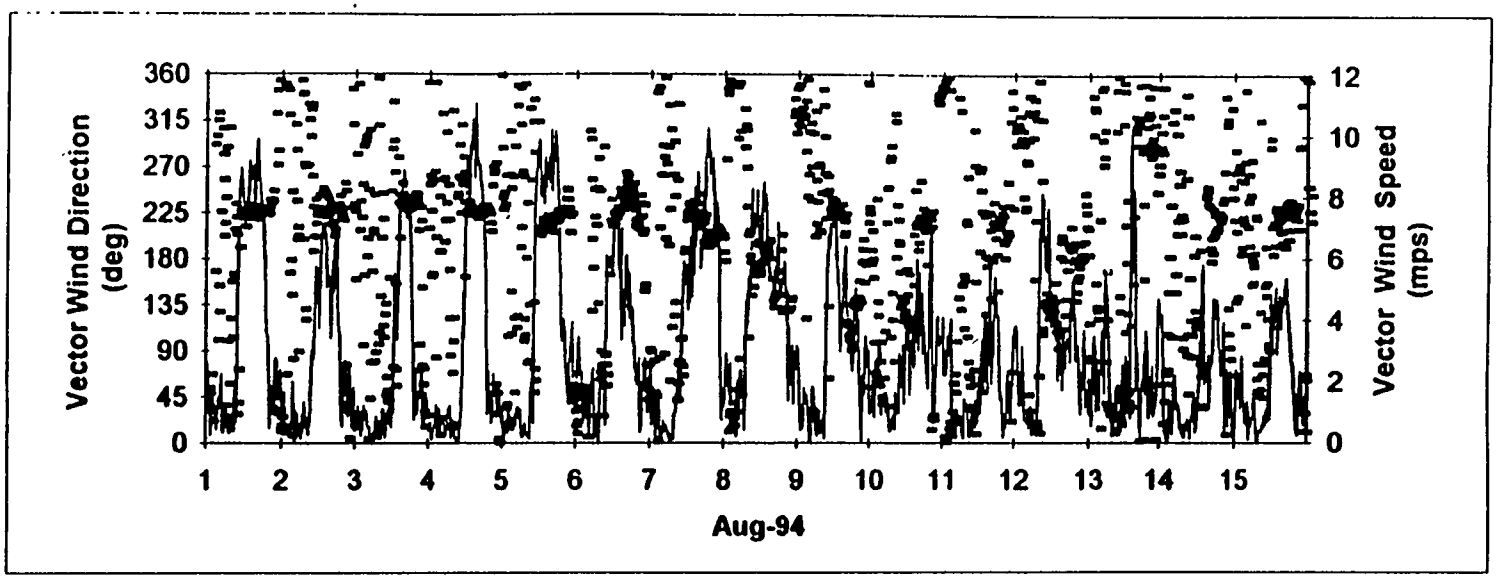

NET RADIATION
500
400
300
200
100
0
-100
wpm2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Aug-94

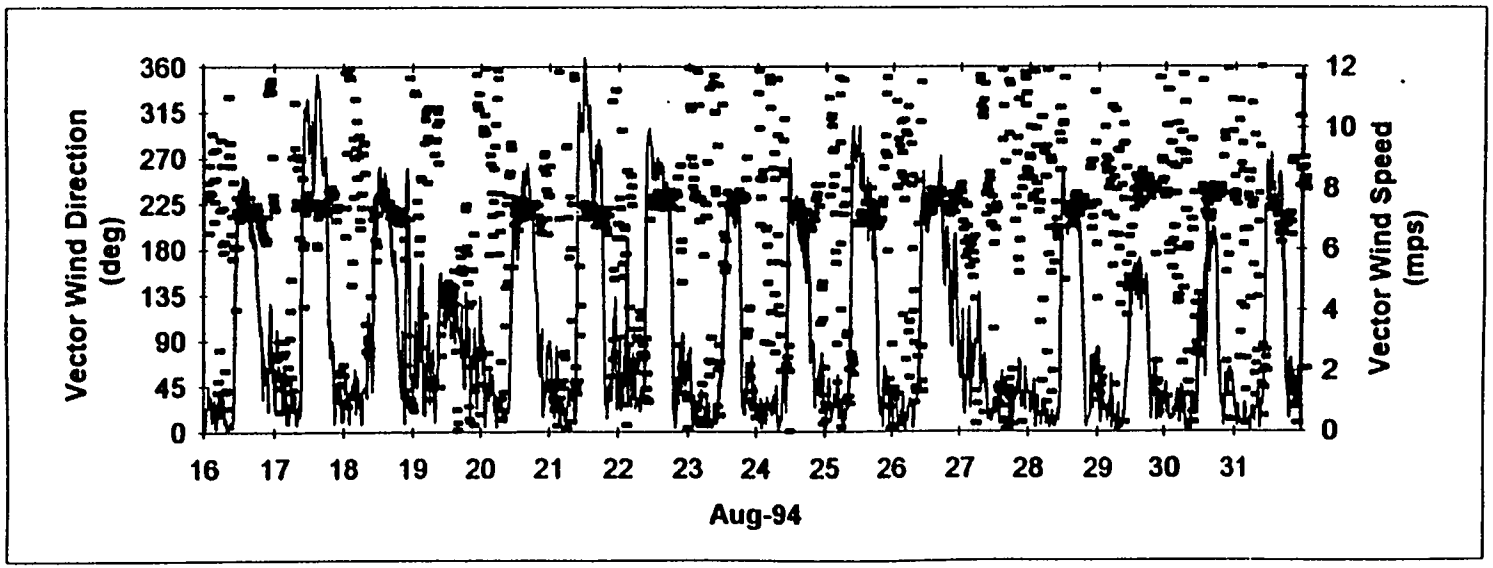
2 METER

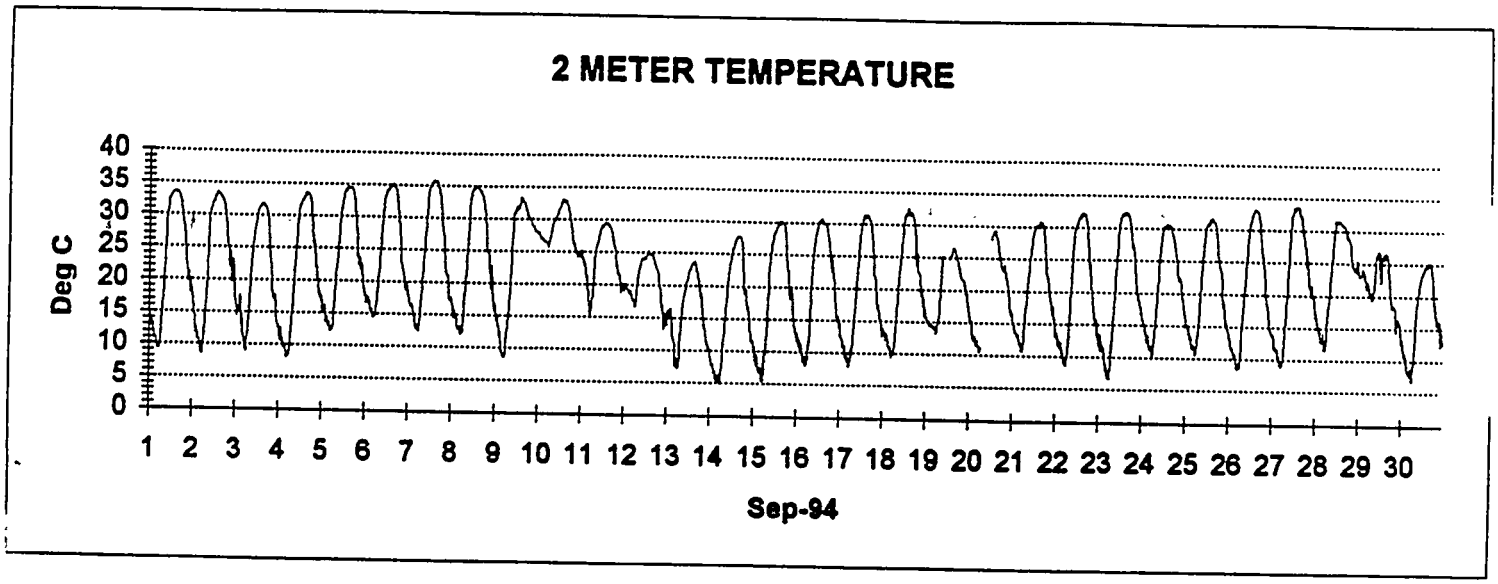

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Aug-94

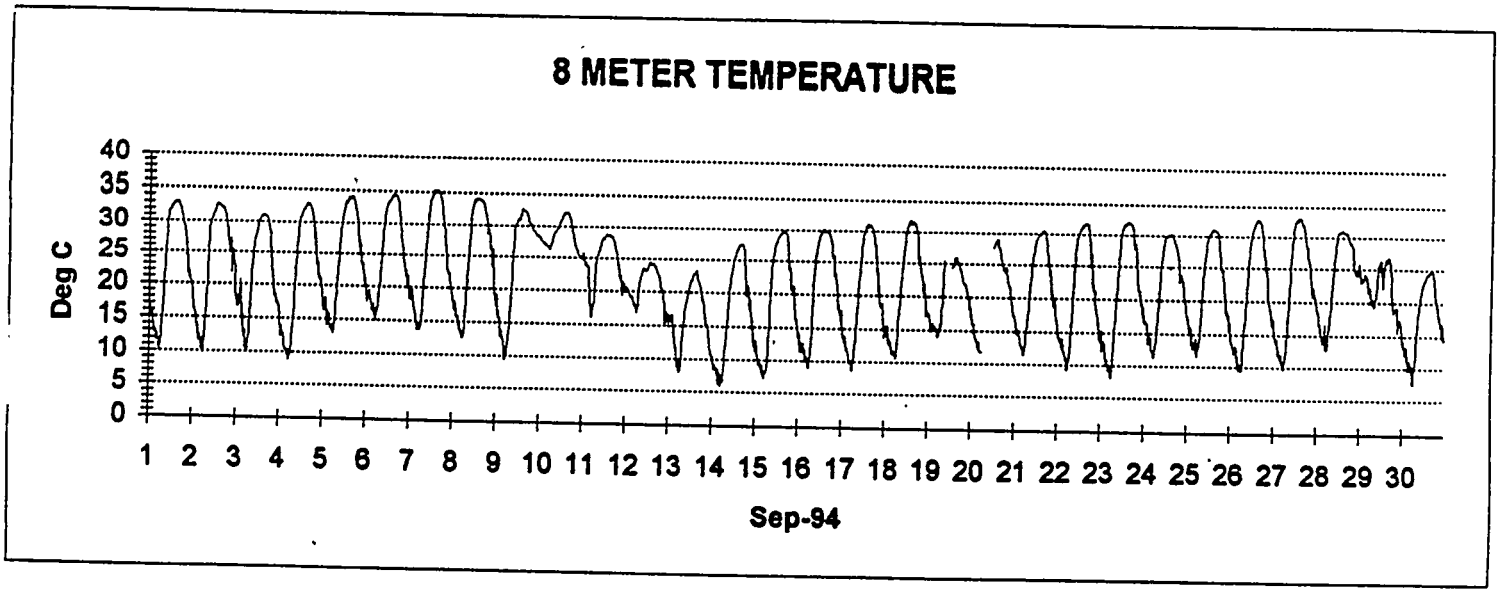

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Aug-94

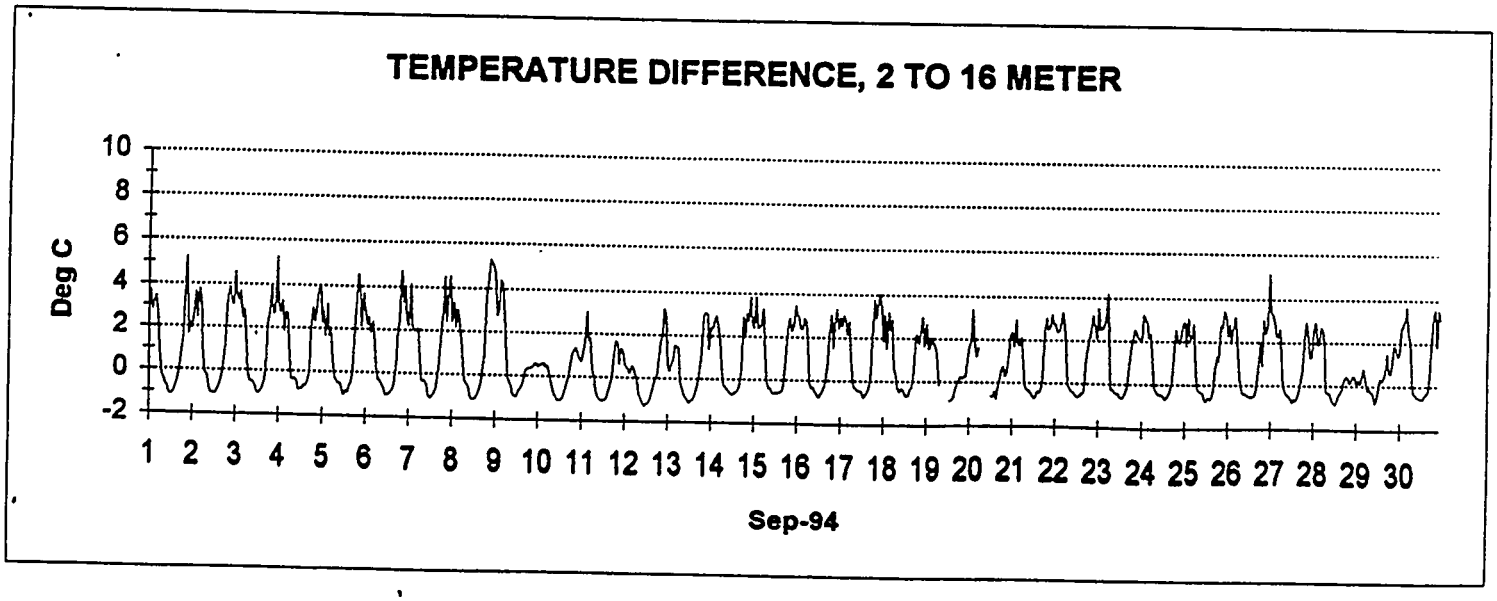
8 METER

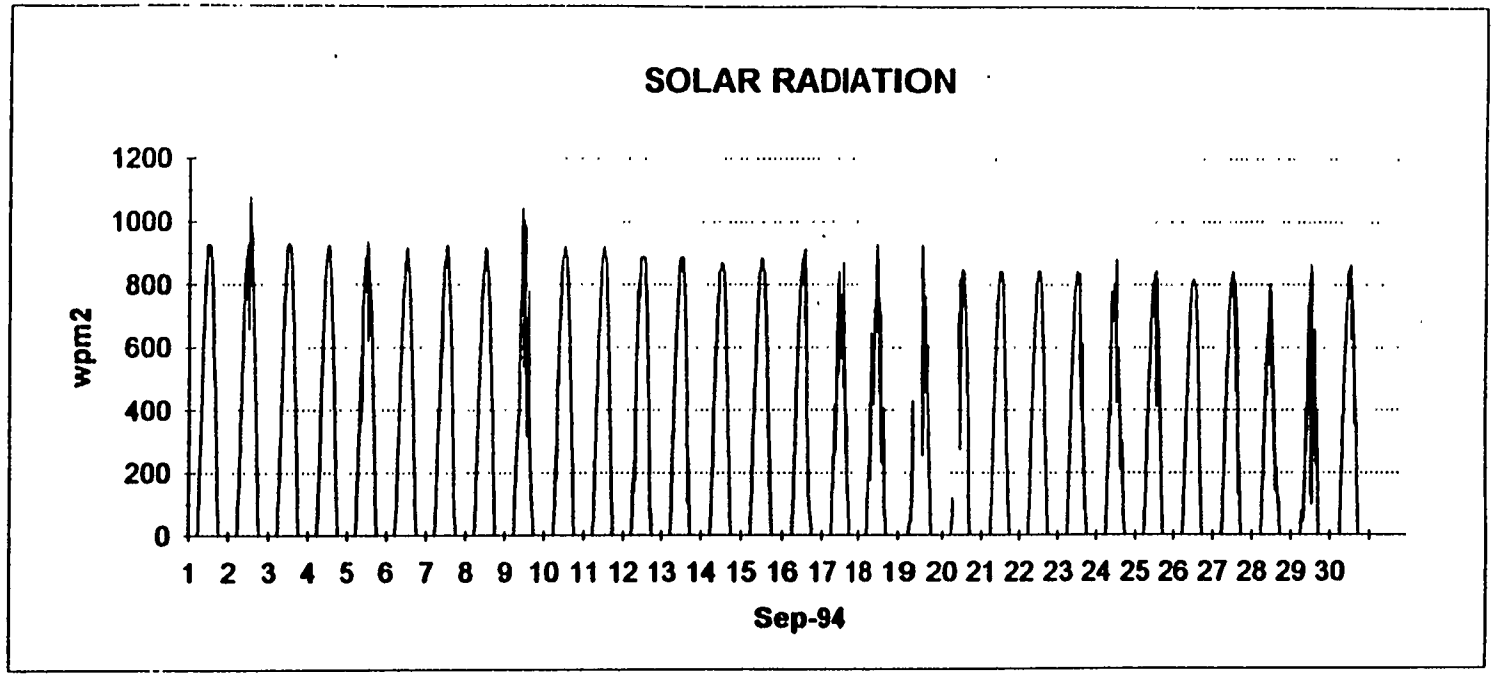

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Aug-94

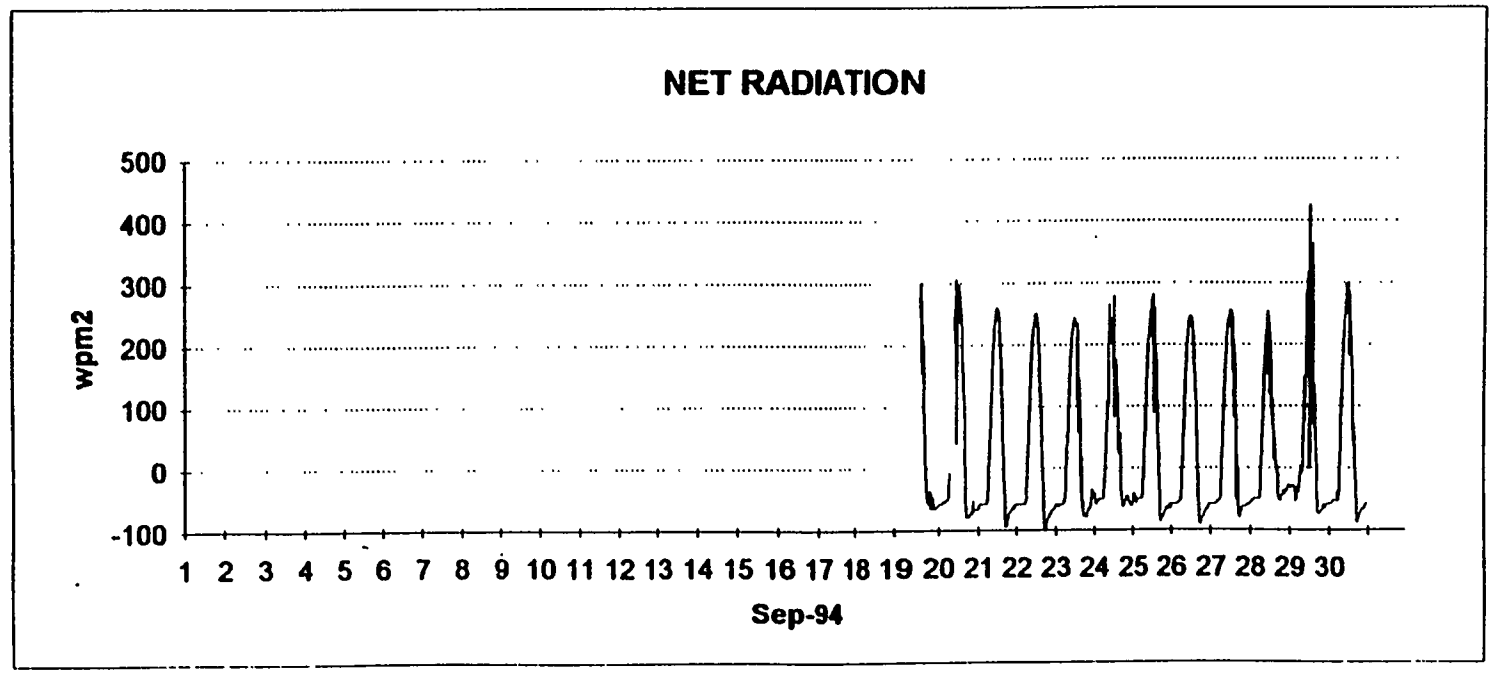

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Aug-94


2 METER TEMPERATURE
Deg C
40
35
30
25
20
15
10
5
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Sep-94

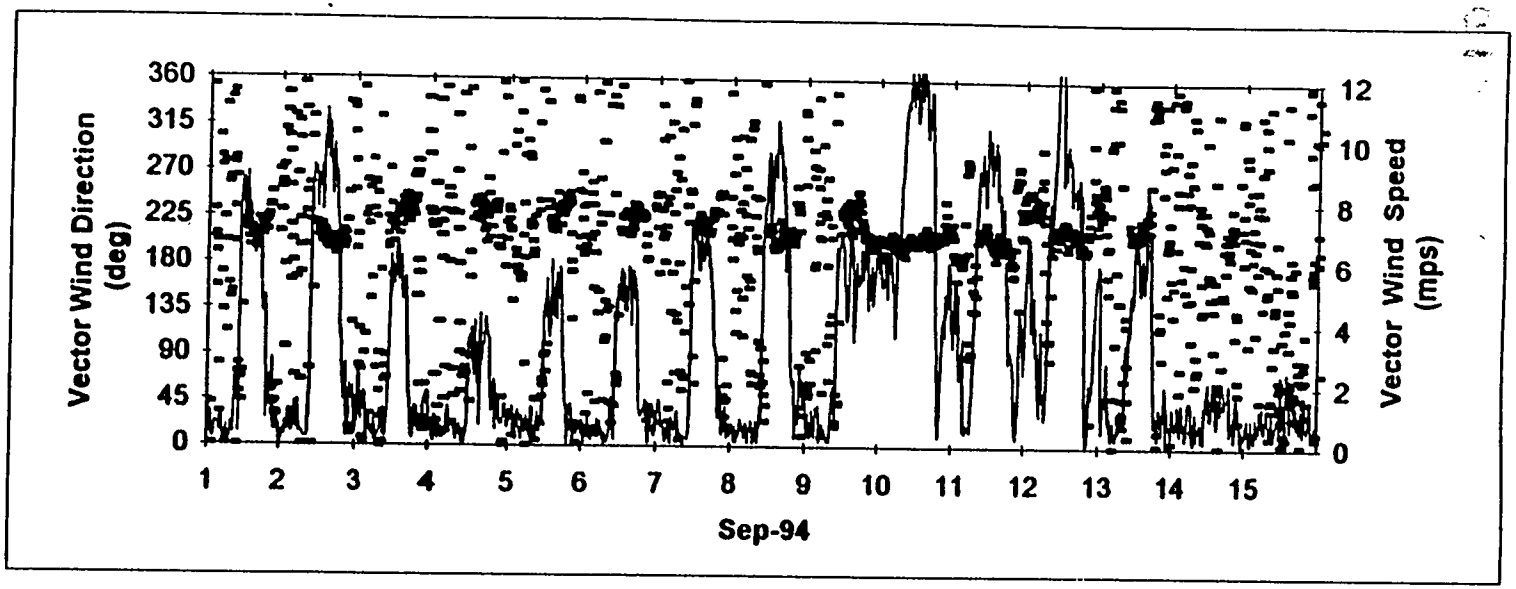

8 METER TEMPERATURE
Deg C
40
35
30
25
20
15
10
5
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Sep-94

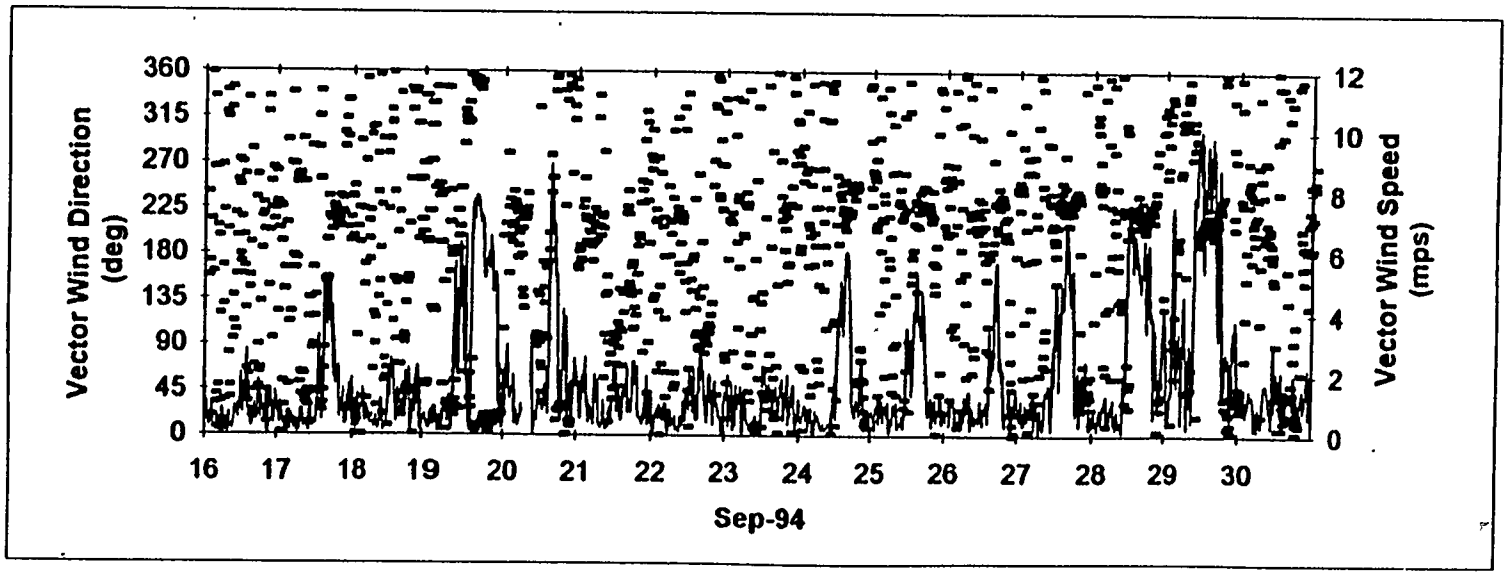

TEMPERATURE DIFFERENCE, 2 TO 16 METER
Deg C
10
8
6
4
2
0
-2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Sep-94


SOLAR RADIATION
wpm2
1200
1000
800
600
400
200
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Sep-94

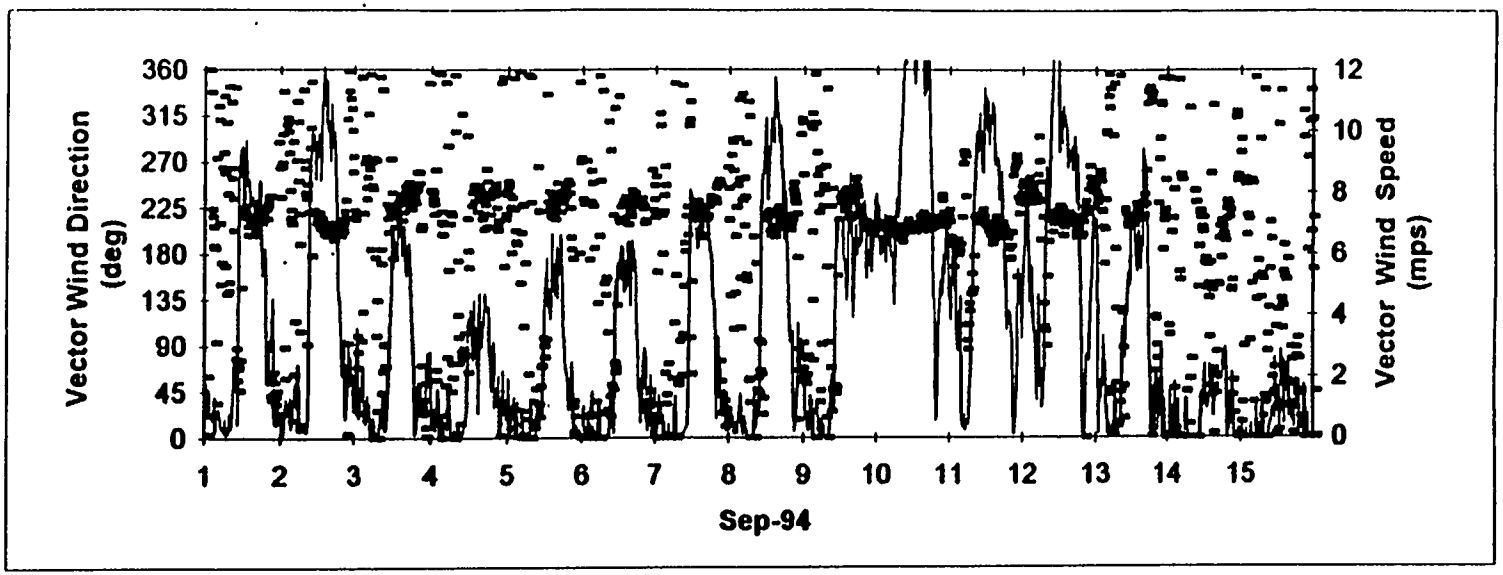

NET RADIATION
wpm2
500
400
300
200
100
0
-100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Sep-94

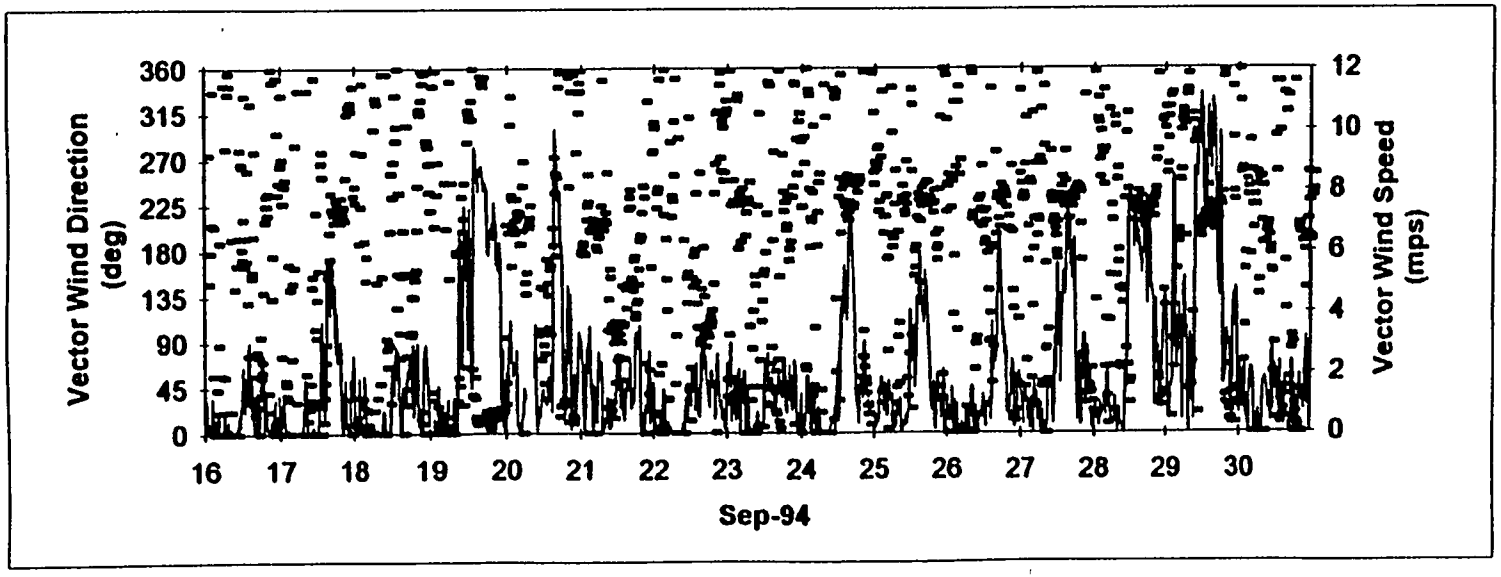
2 METER

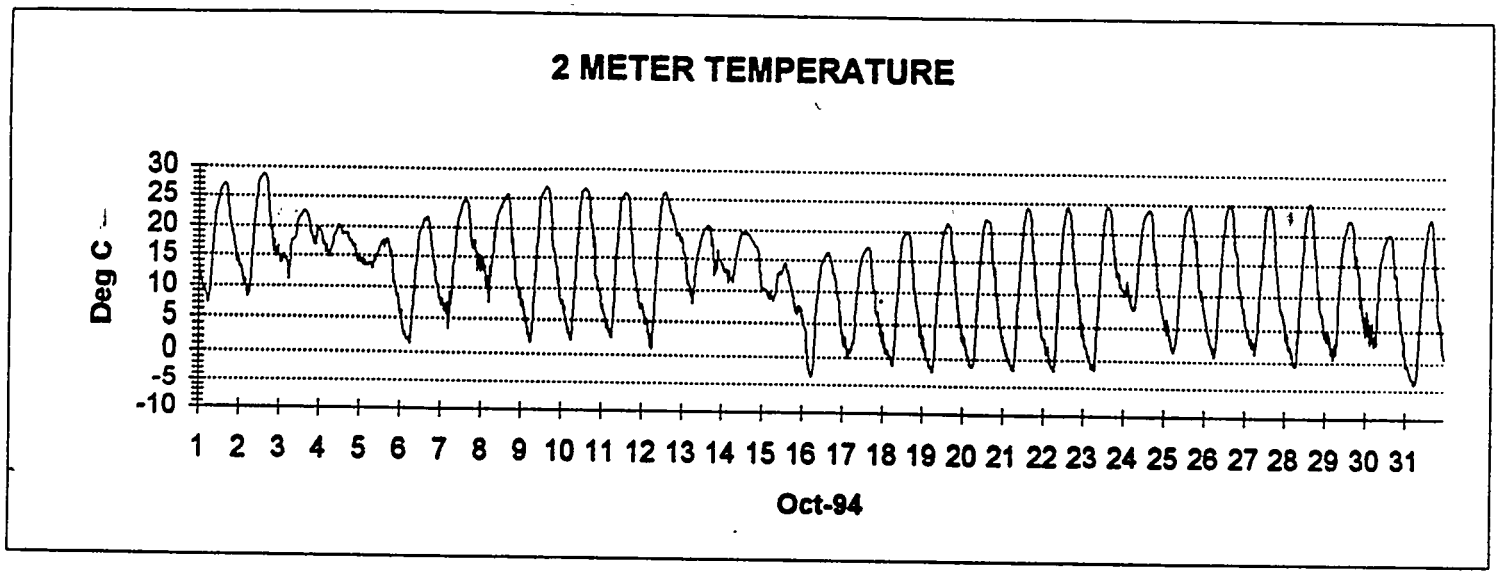

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Sep-94

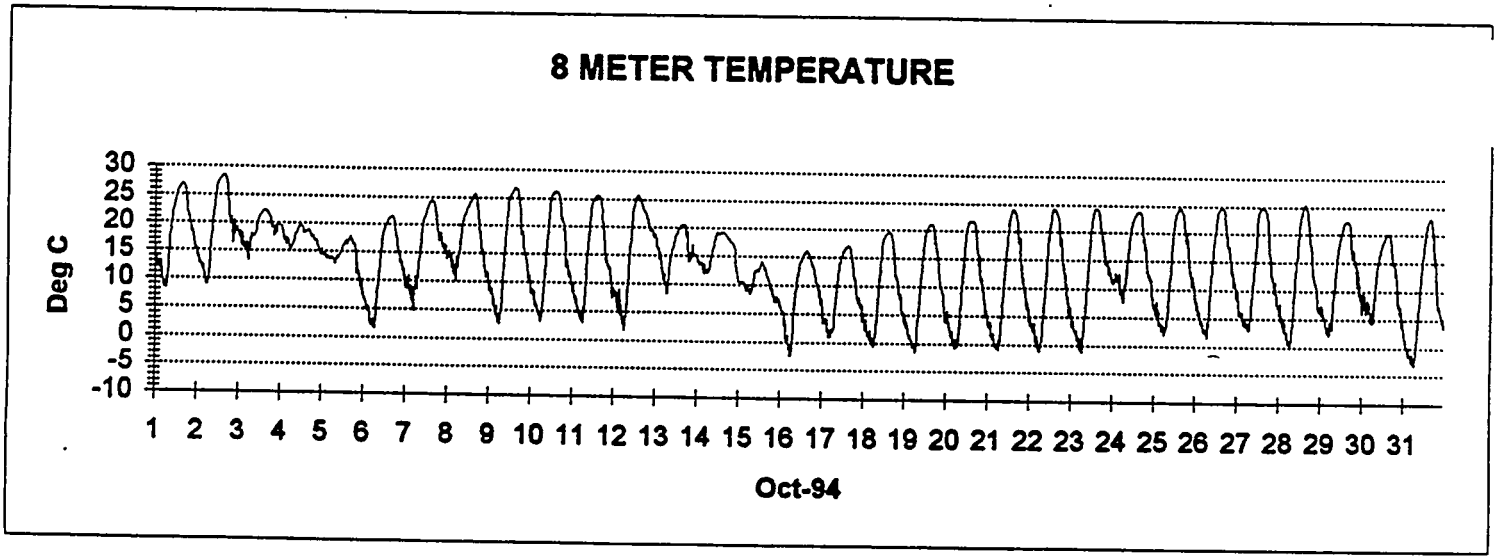

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Sep-94

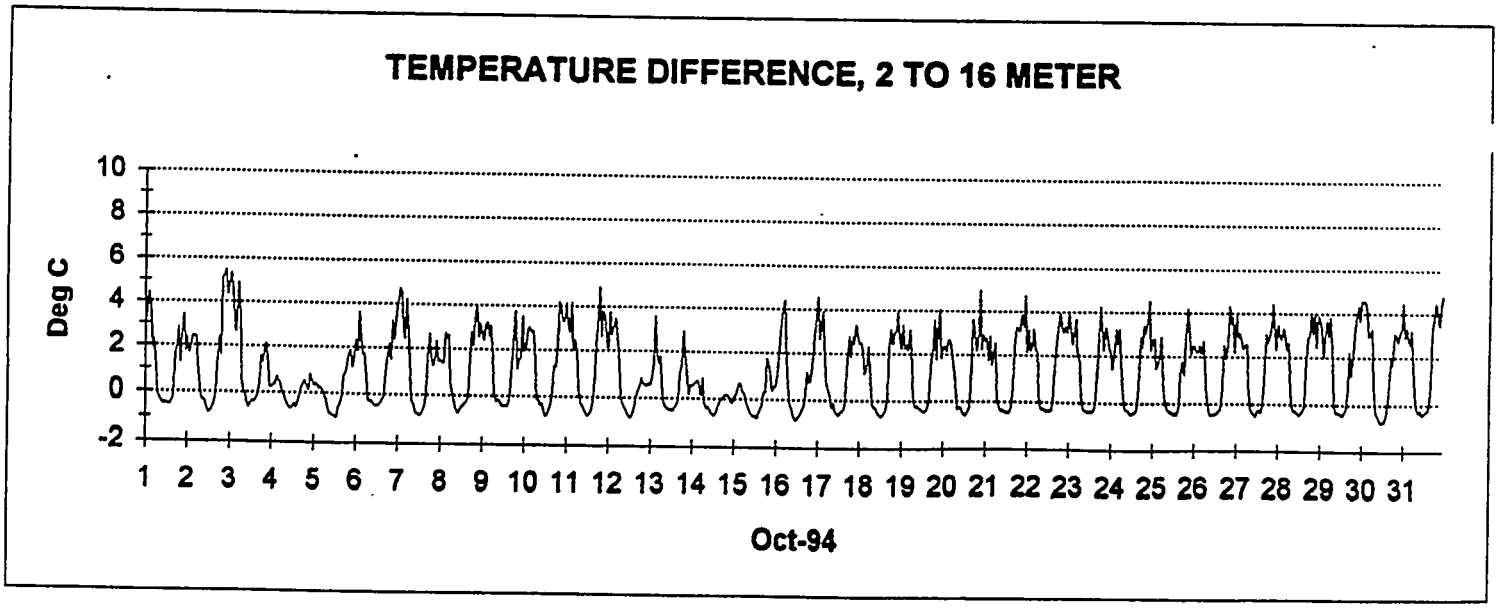
8 METER

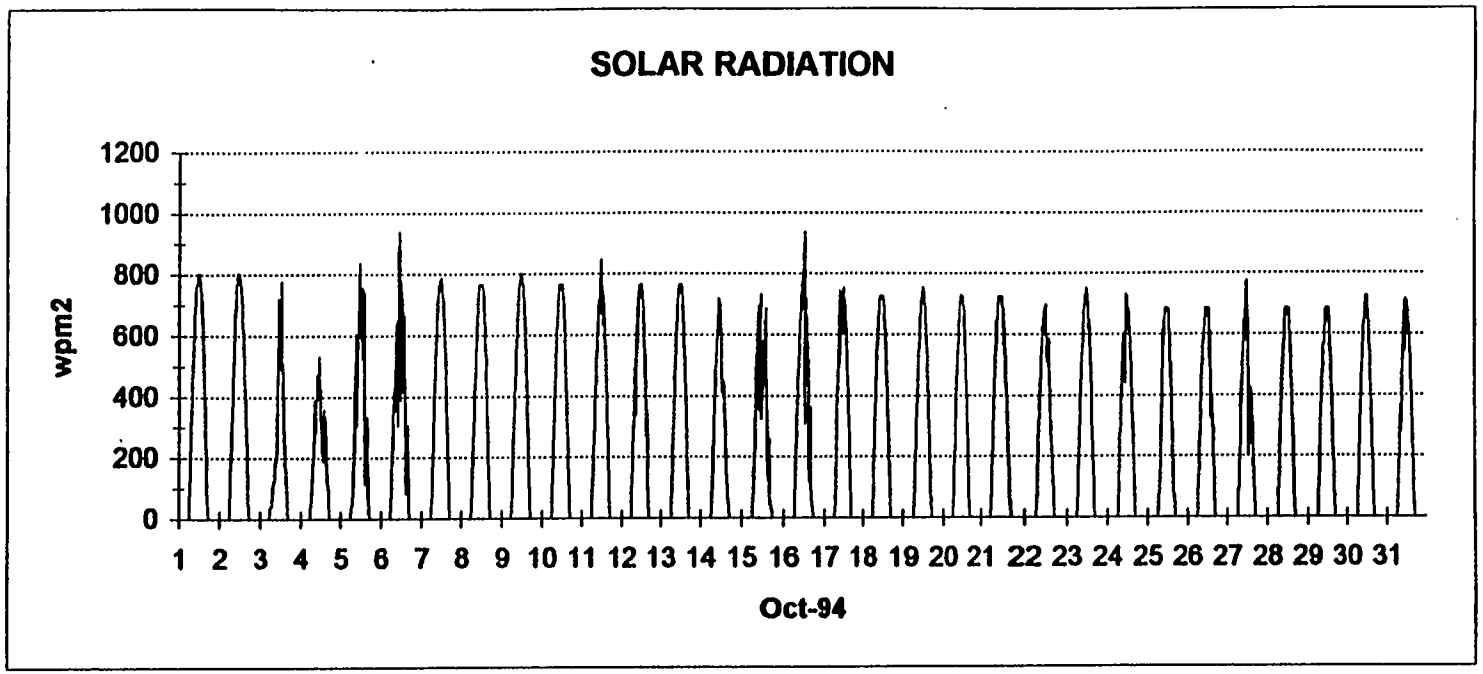

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Sep-94

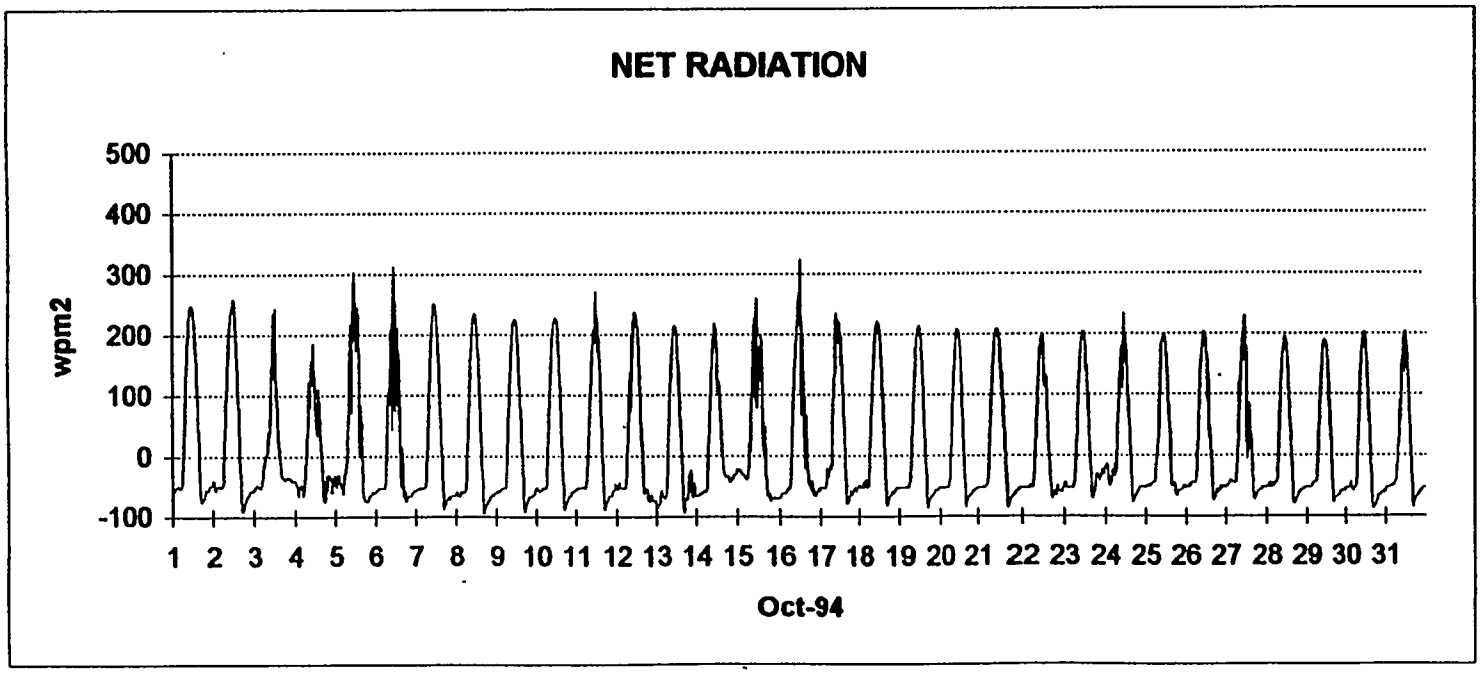

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Sep-94


2 METER TEMPERATURE
Deg C
30
25
20
15
10
5
0
-5
-10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Oct-94

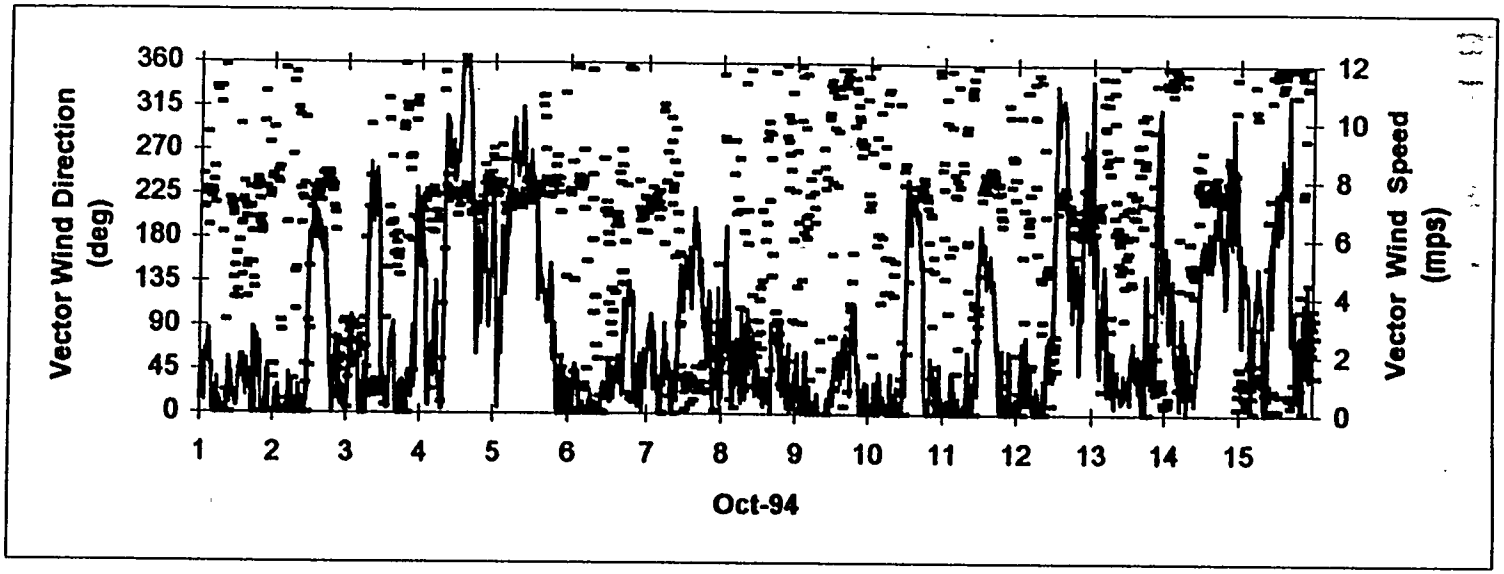

8 METER TEMPERATURE
Deg C
30
25
20
15
10
5
0
-5
-10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Oct-94

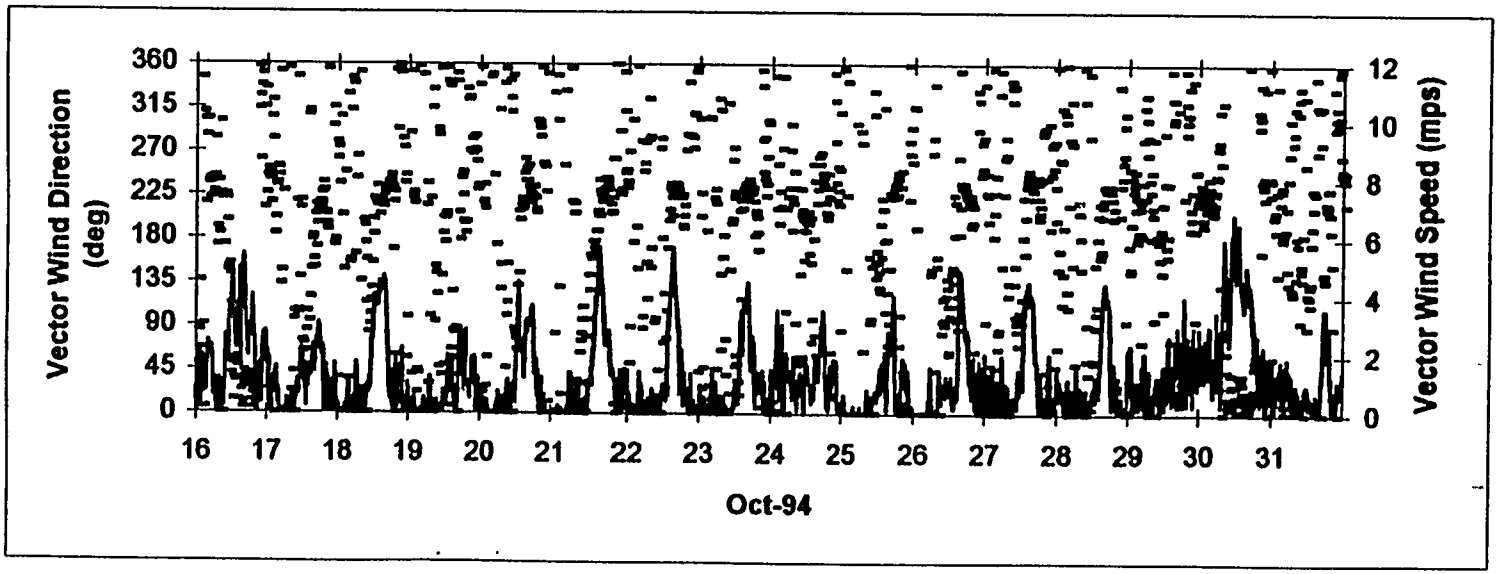

TEMPERATURE DIFFERENCE, 2 TO 16 METER
Deg C
10
8
6
4
2
0
-2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Oct-94


SOLAR RADIATION
wpm2
1200
1000
800
600
400
200
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Oct-94

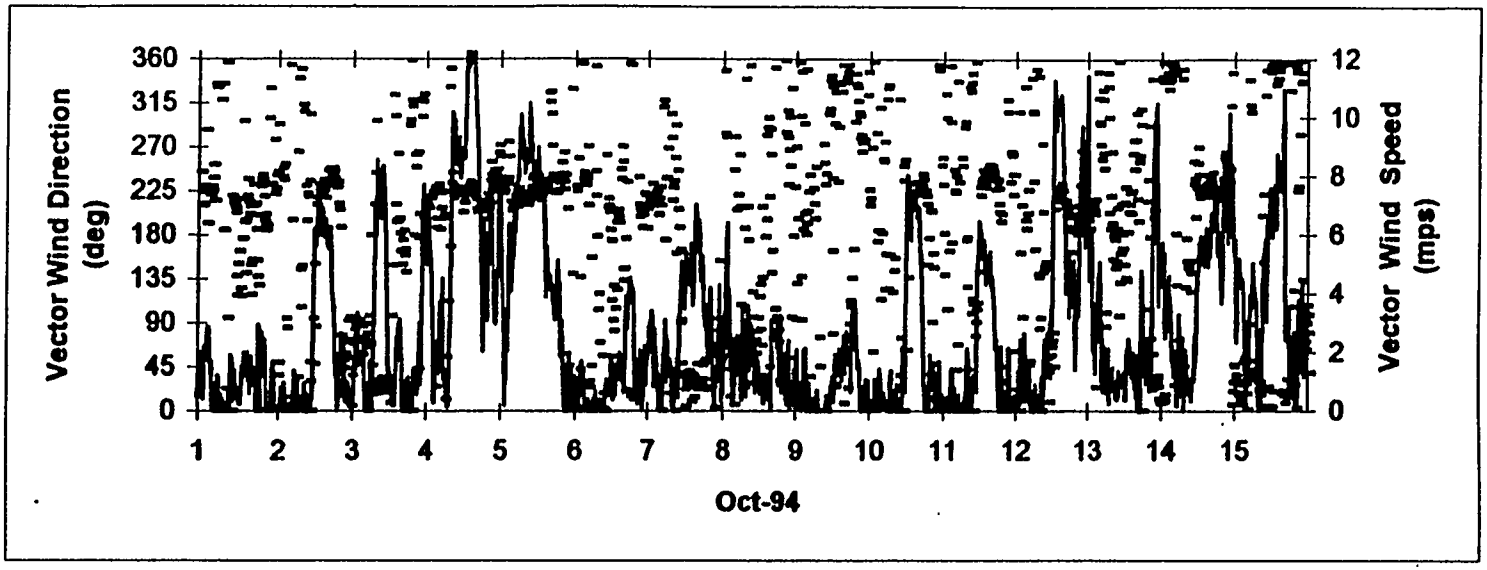

NET RADIATION
wpm2
500
400
300
200
100
0
-100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Oct-94

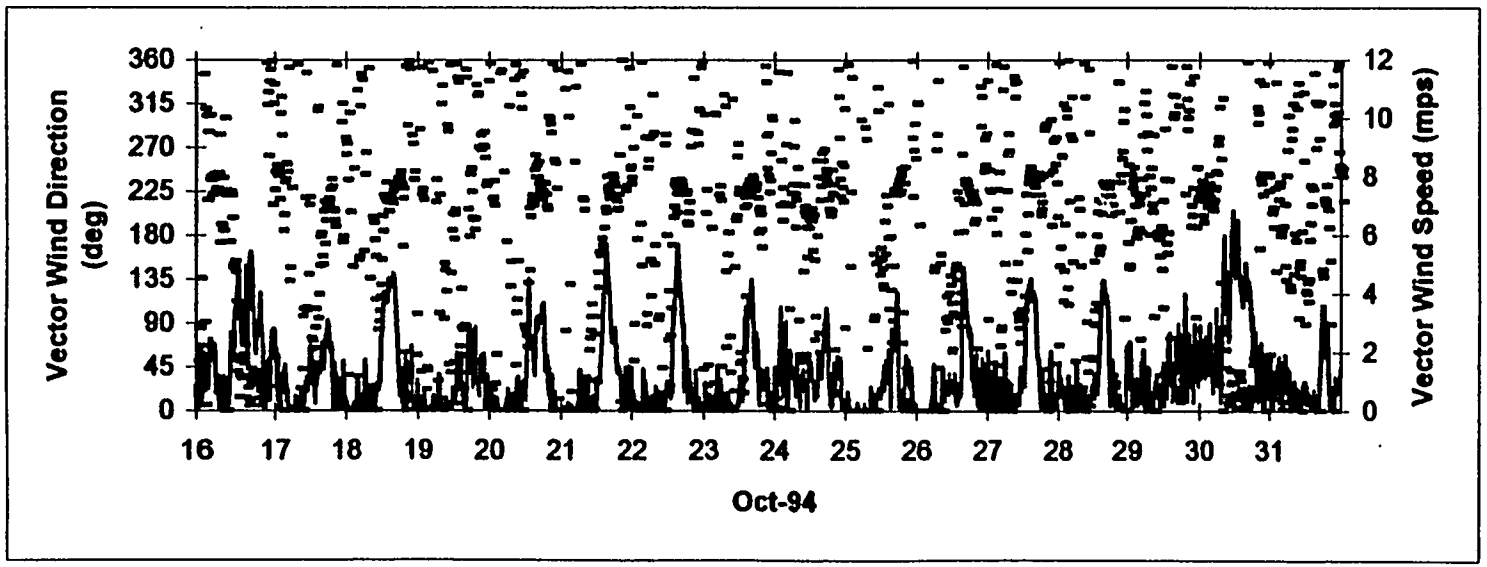
2 METER

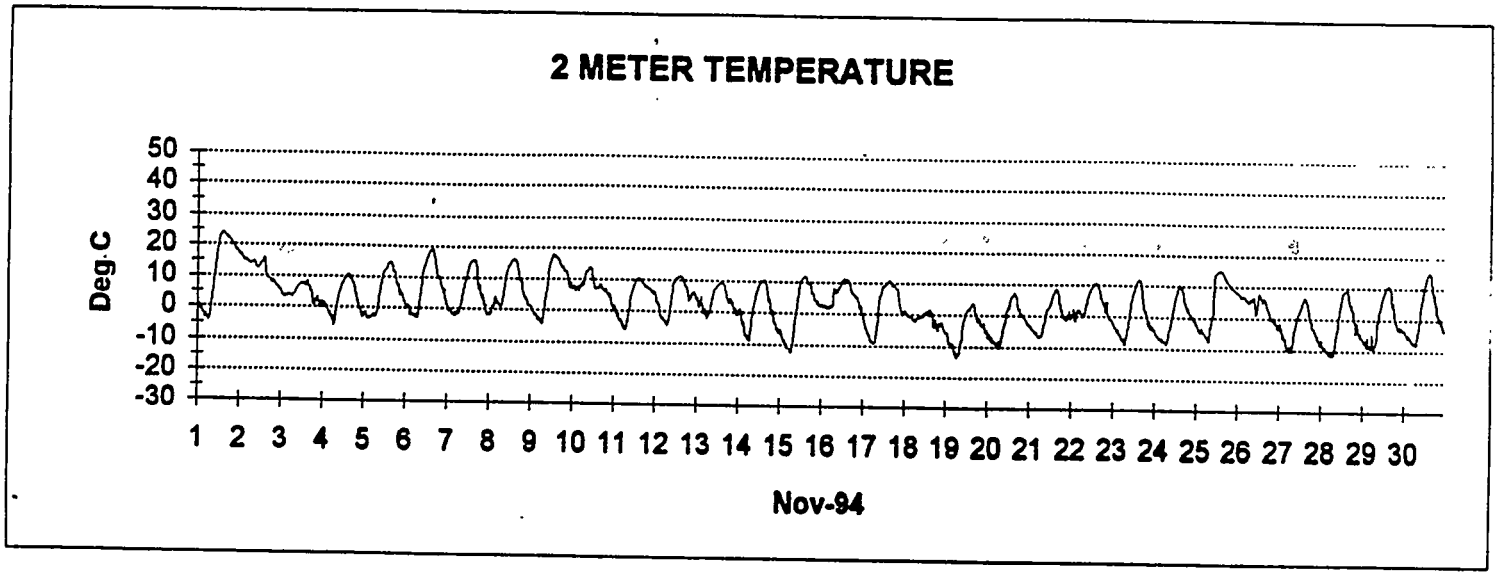

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Oct-94

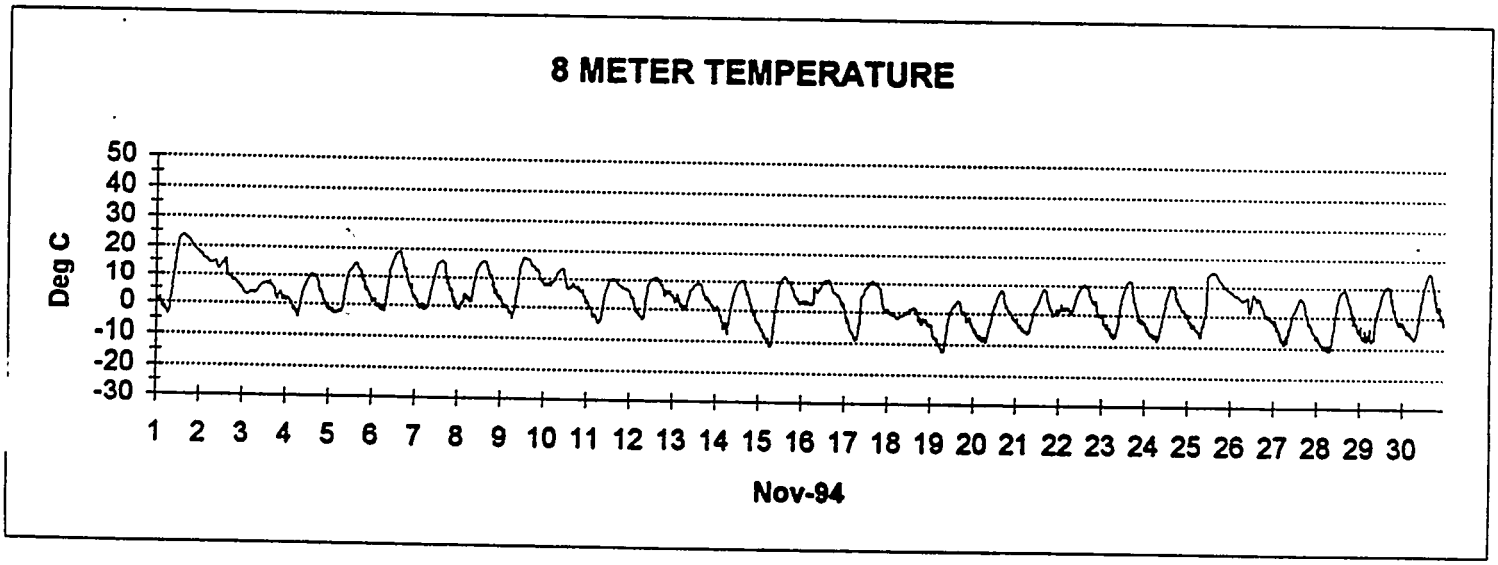

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Oct-94

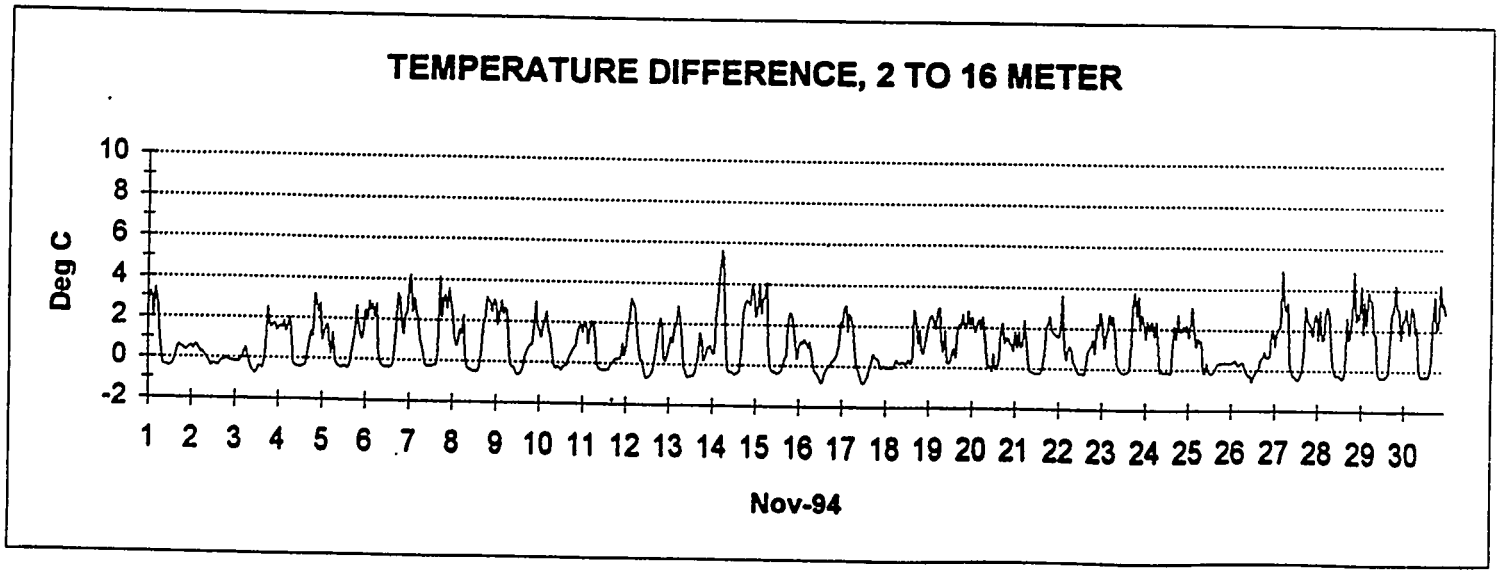
8 METER

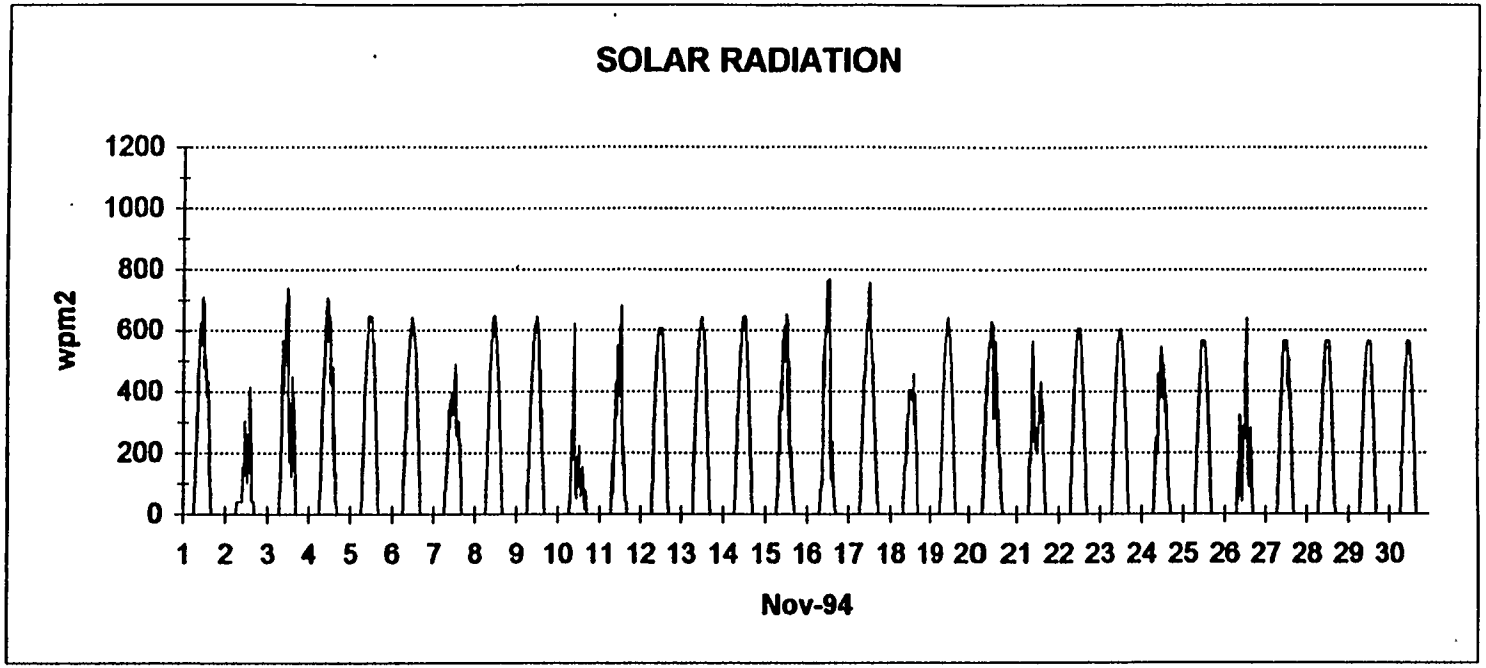

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Oct-94

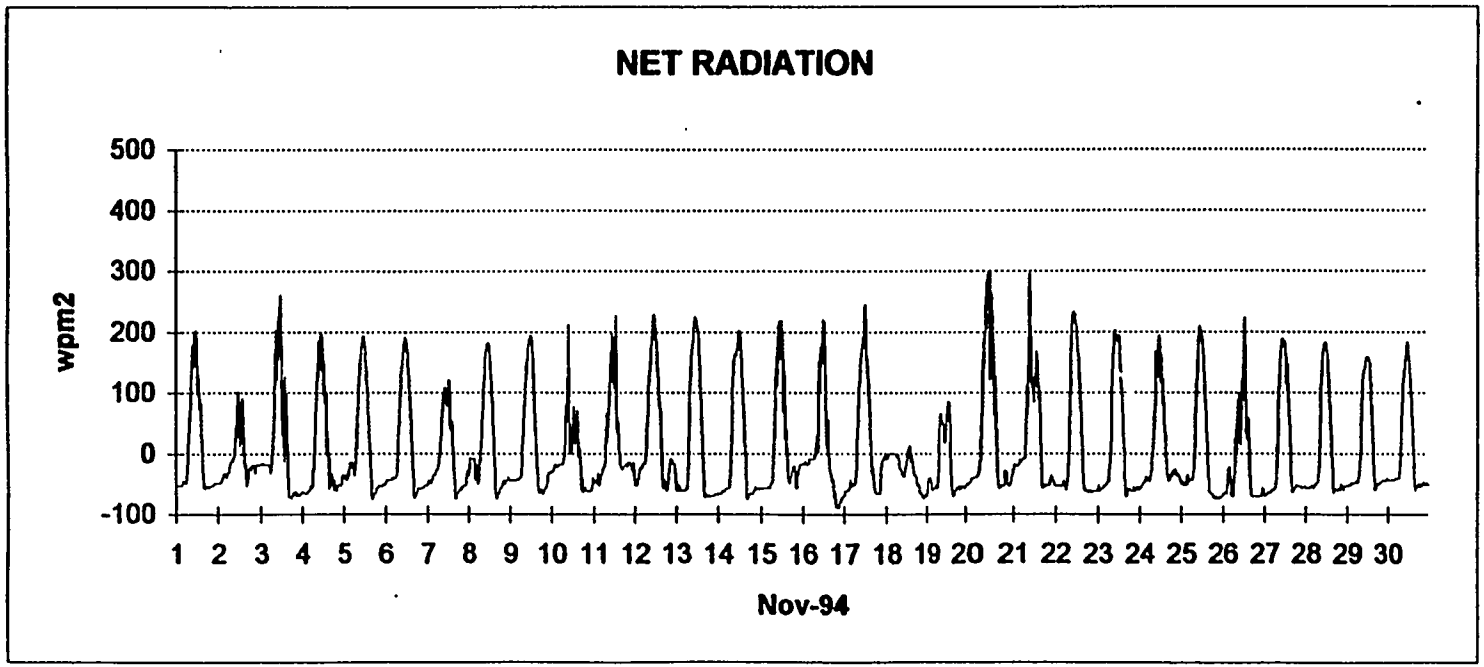

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Oct-94


2 METER TEMPERATURE
Deg C
50
40
30
20
10
0
-10
-20
-30
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Nov-94

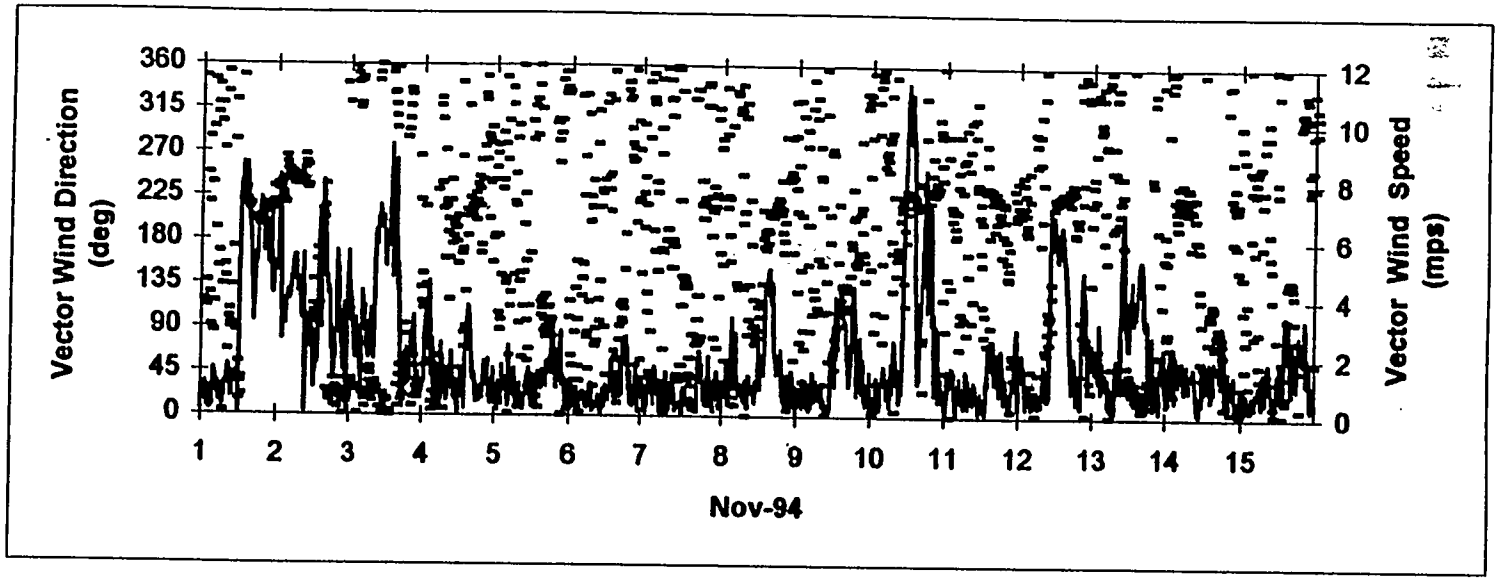

8 METER TEMPERATURE
Deg C
50
40
30
20
10
0
-10
-20
-30
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Nov-94

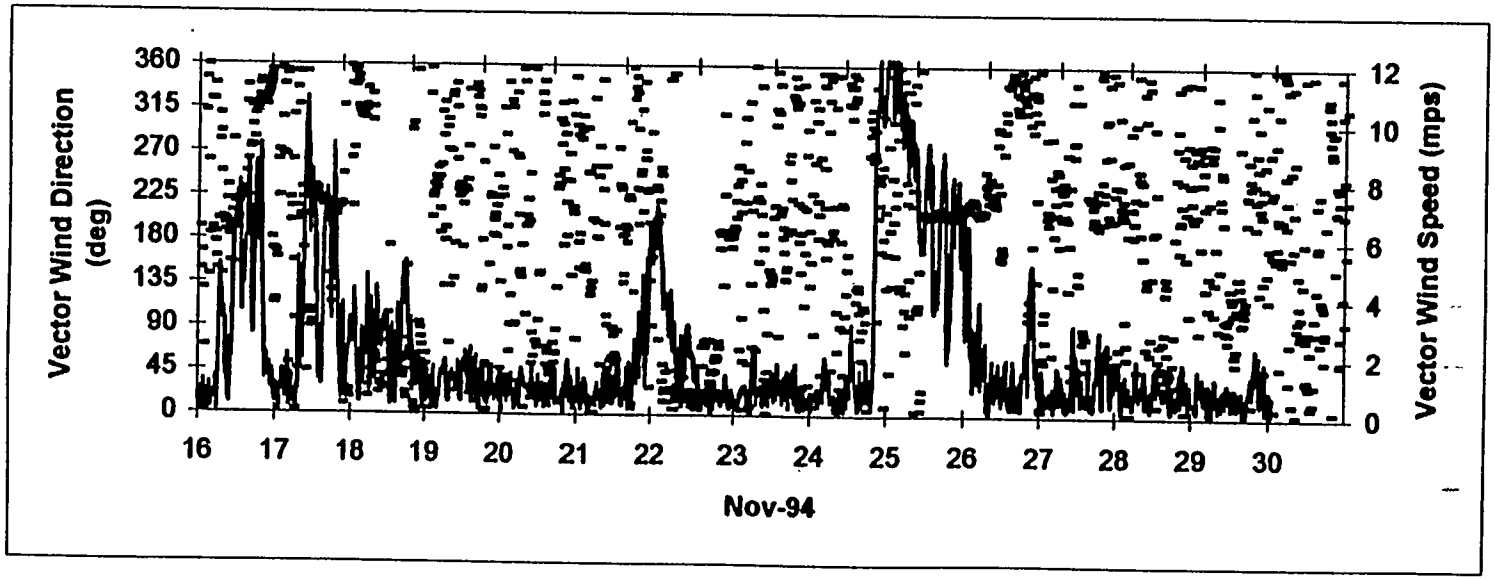

TEMPERATURE DIFFERENCE, 2 TO 16 METER
Deg C
10
8
6
4
2
0
-2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Nov-94

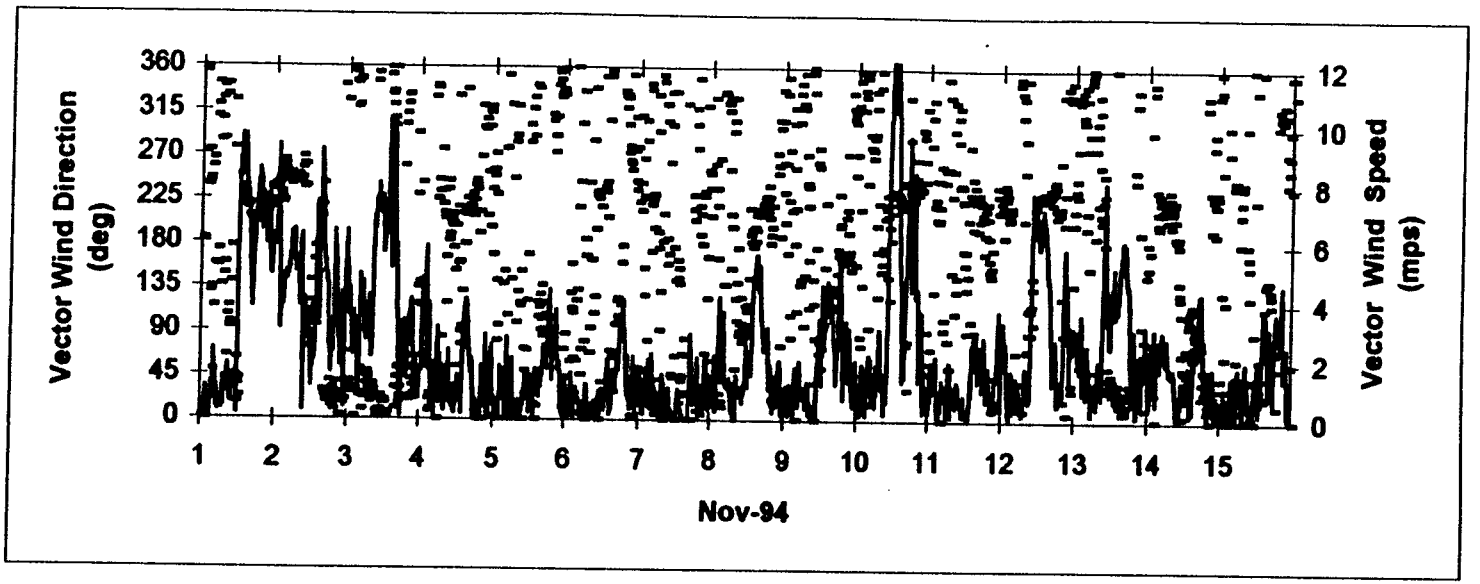

SOLAR RADIATION
wpm2
1200
1000
800
600
400
200
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Nov-94

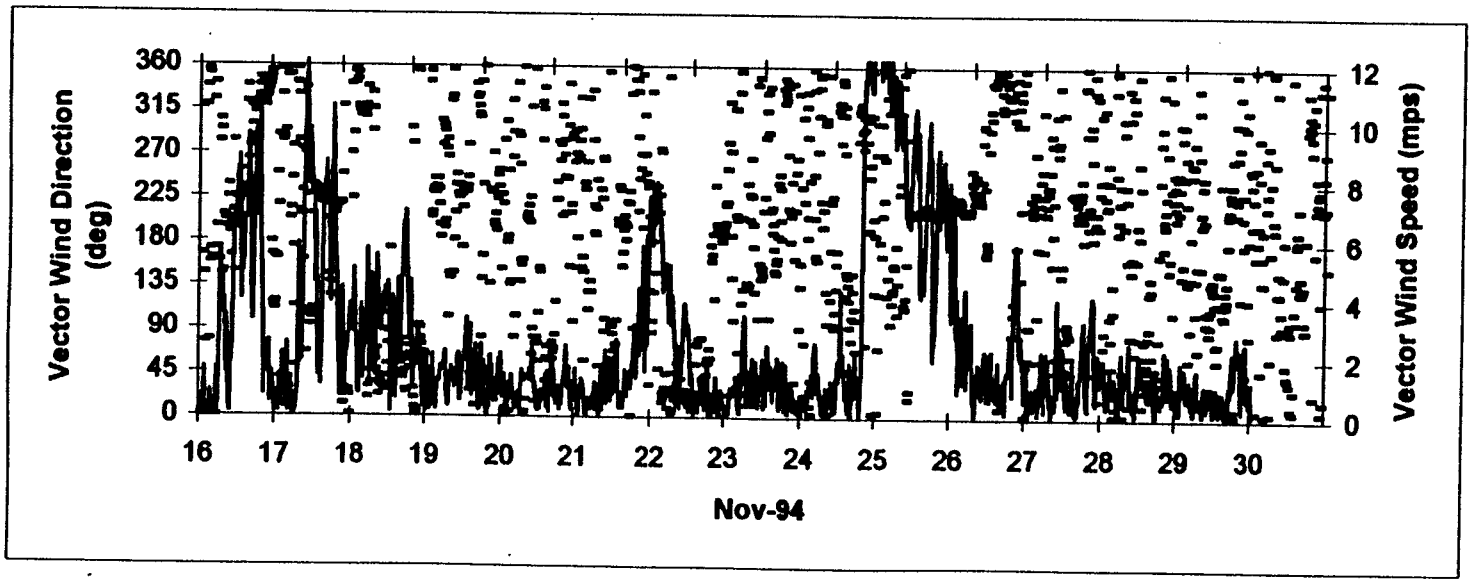

NET RADIATION
wpm2
500
400
300
200
100
0
-100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Nov-94

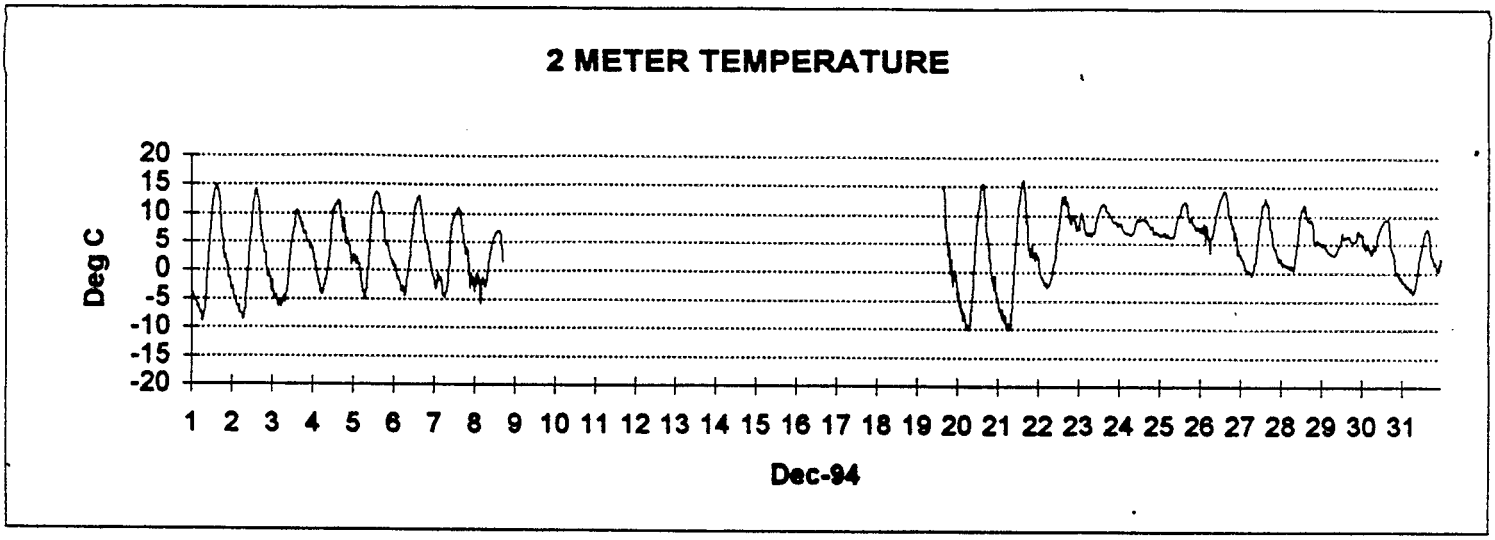
2 METER

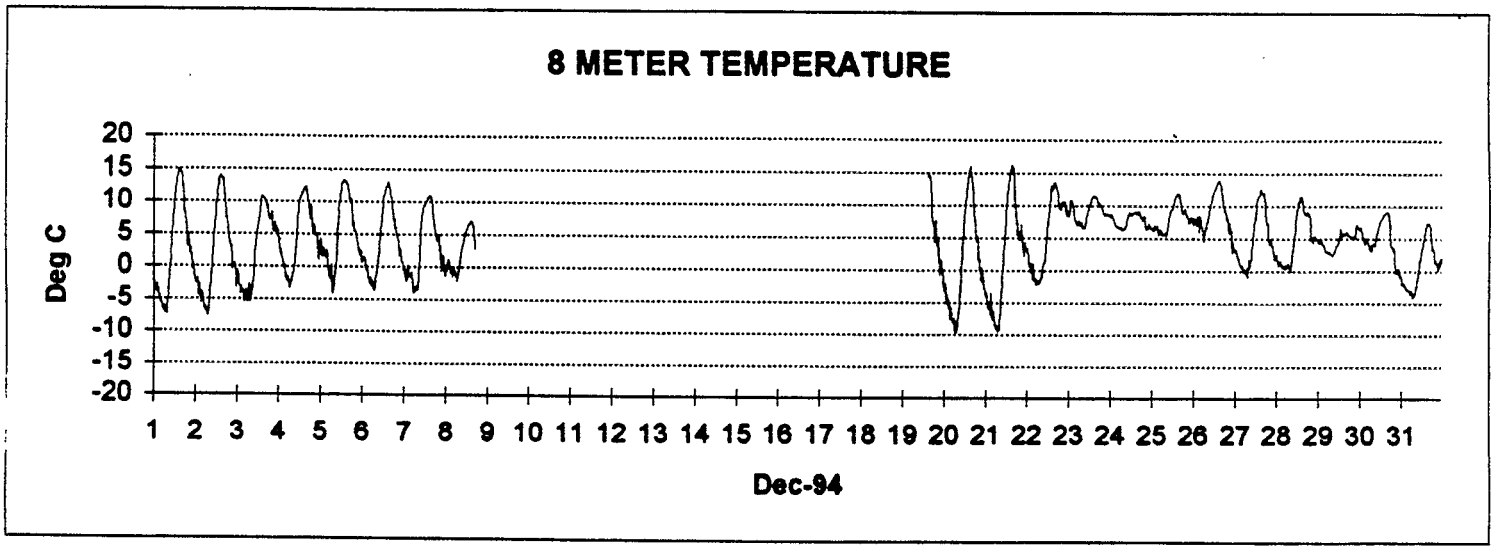

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Nov-94
Vector Wind Speed (mps)
12
10
8
6
4
2
0

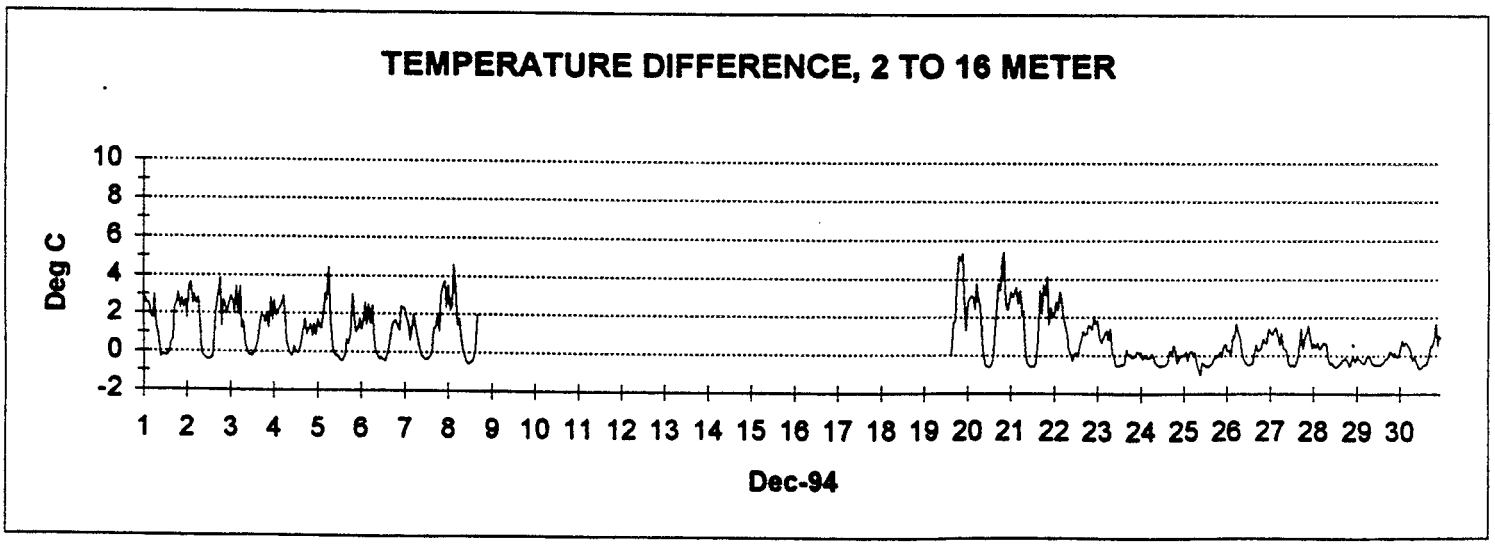

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Nov-94
Vector Wind Speed (mps)
12
10
8
6
4
2
0

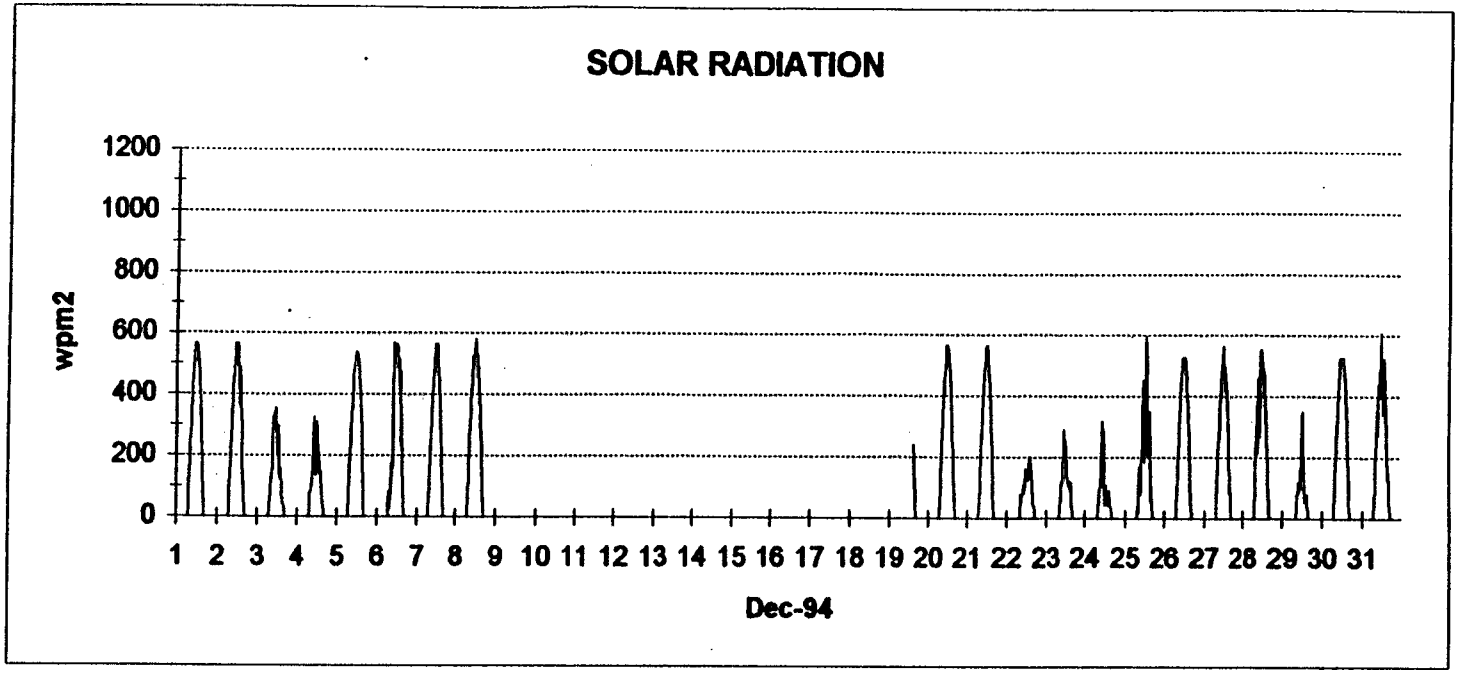

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Nov-94
Vector Wind Speed (mps)
12
10
8
6
4
2
0

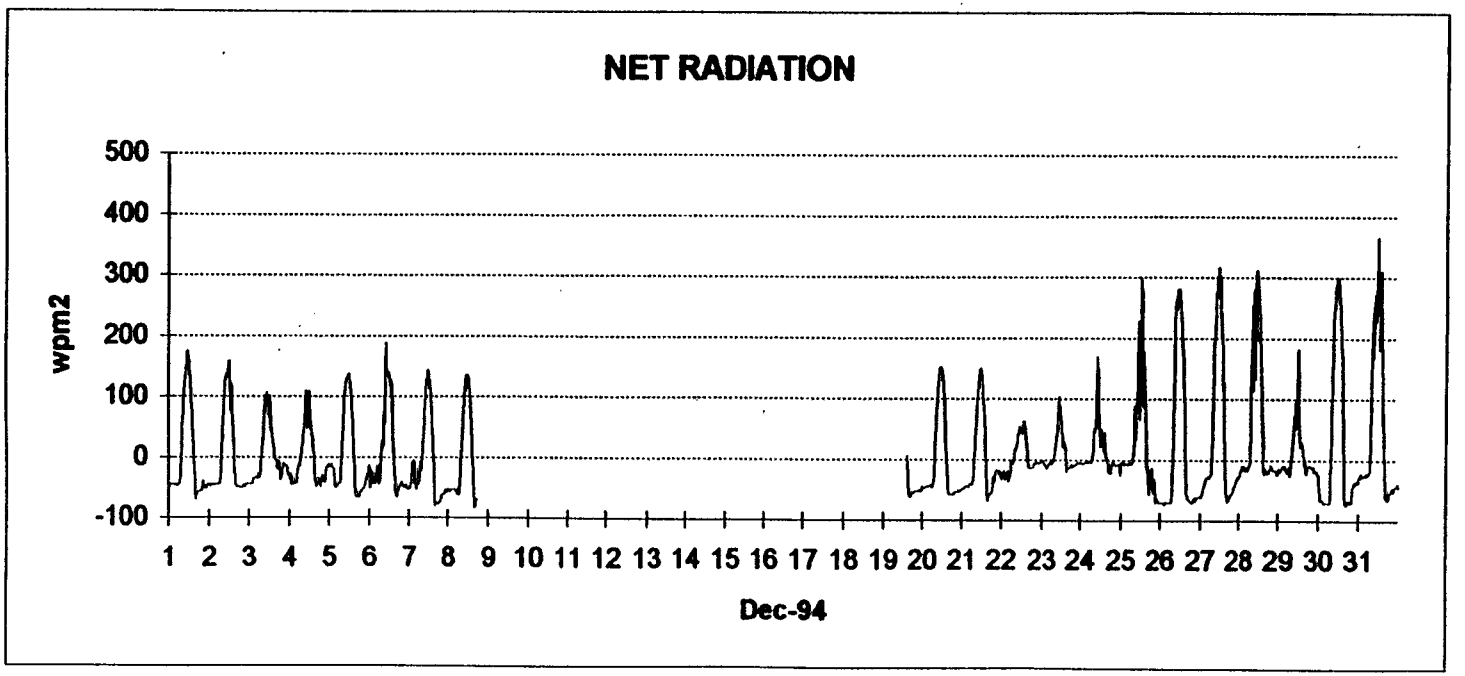

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Nov-94
Vector Wind Speed (mps)
12
10
8
6
4
2
0


2 METER TEMPERATURE
Deg C
20
15
10
5
0
-5
-10
-15
-20
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Dec-94

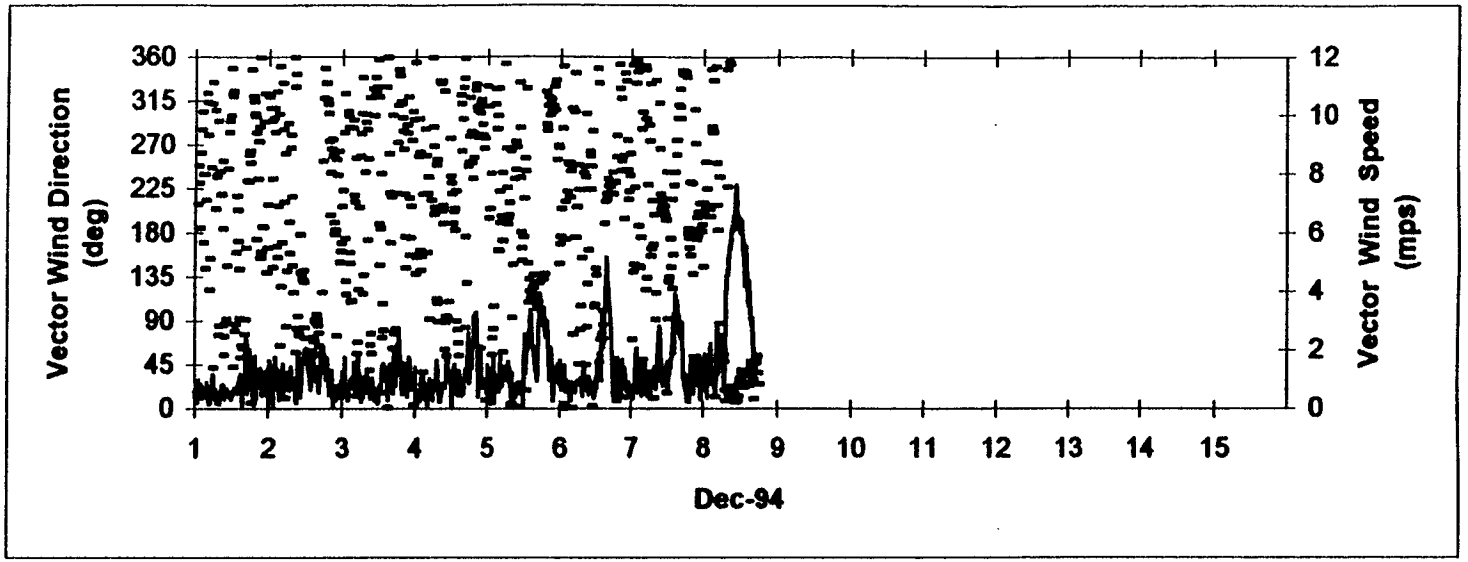

8 METER TEMPERATURE
Deg C
20
15
10
5
0
-5
-10
-15
-20
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Dec-94

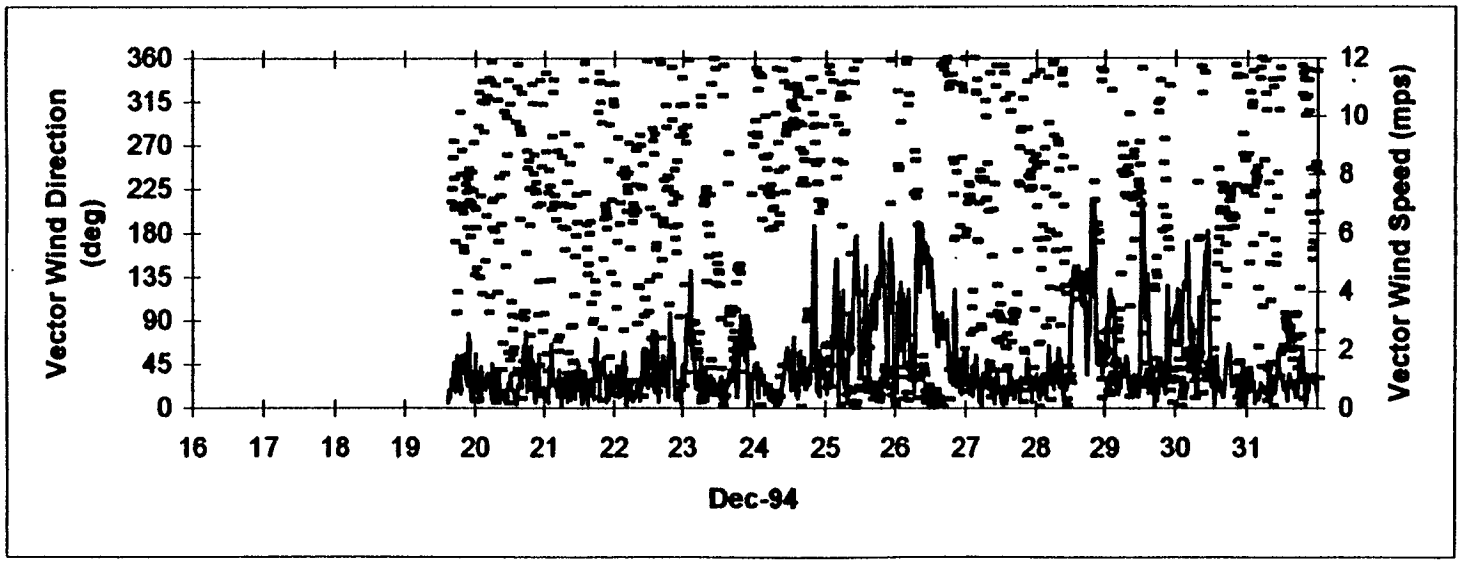

TEMPERATURE DIFFERENCE, 2 TO 16 METER
Deg C
10
8
6
4
2
0
-2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Dec-94


SOLAR RADIATION
wpm2
1200
1000
800
600
400
200
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Dec-94

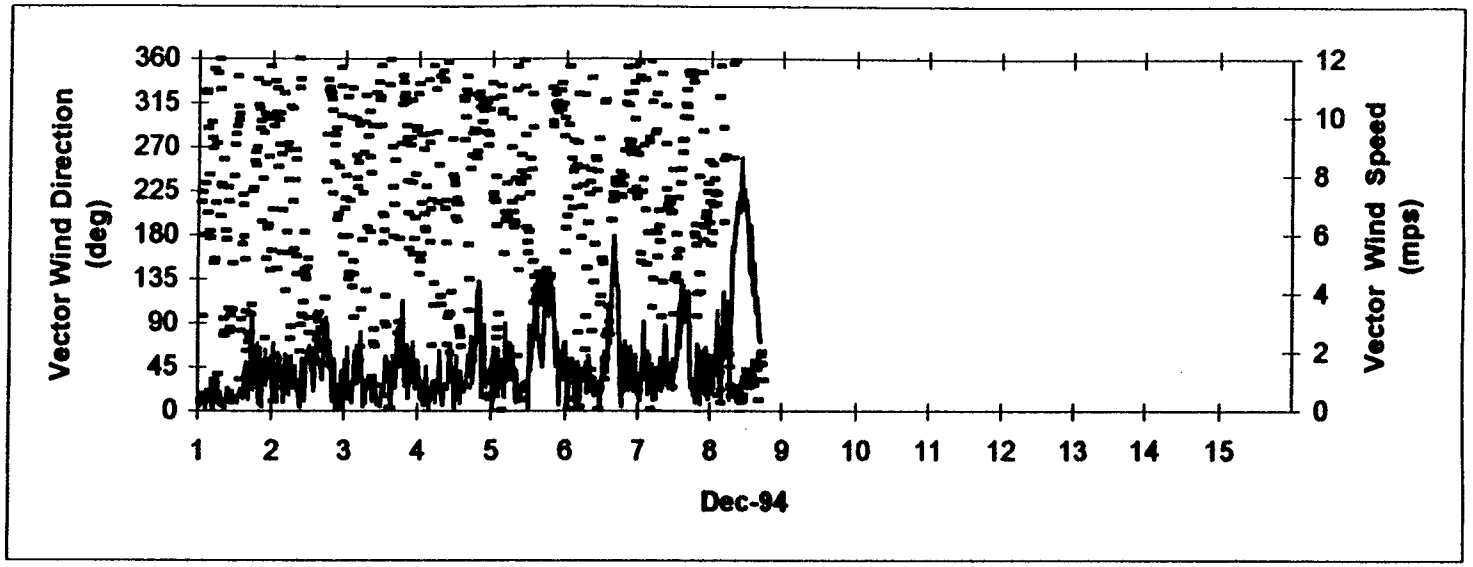

NET RADIATION
wpm2
500
400
300
200
100
0
-100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Dec-94

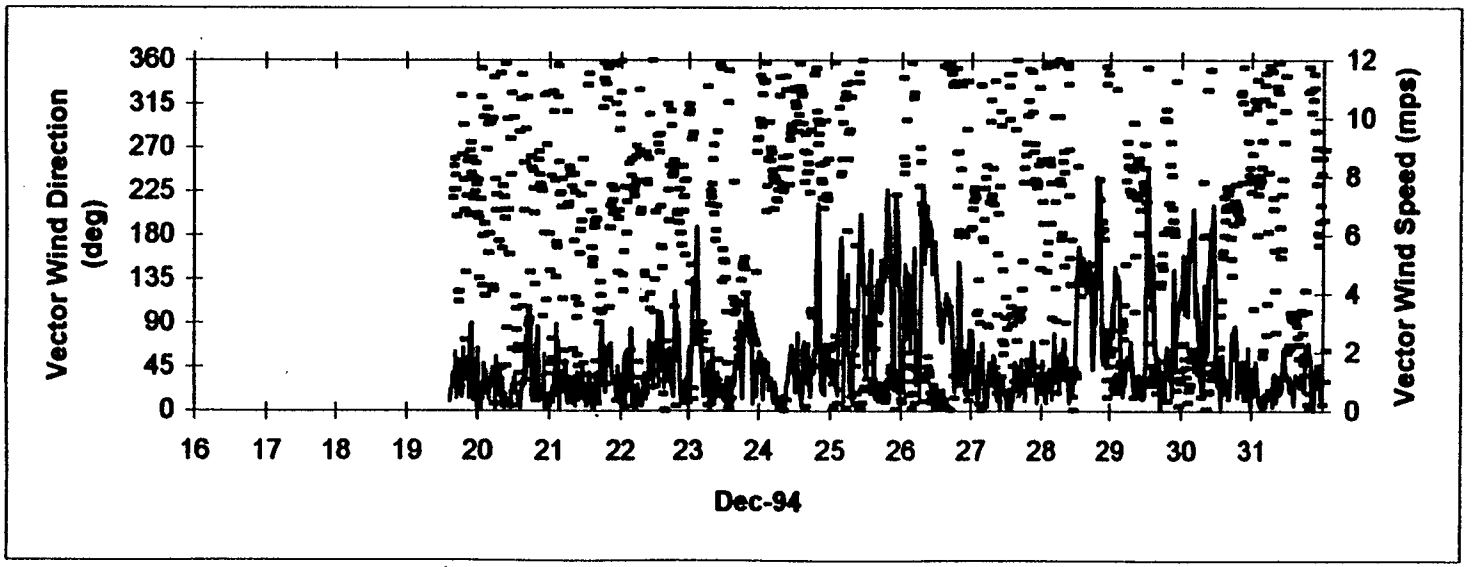
2 METER


Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Dec-94
Vector Wind Speed (mps)
12
10
8
6
4
2
0


Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Dec-94
Vector Wind Speed (mps)
12
10
8
6
4
2
0

8 METER


Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Dec-94


Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Dec-94

APPENDIX B: MONTHLY WIND ROSES, TWO AND EIGHT METERS

Two Meters

1-12	Total Hours (0000-2400), January-December, 1994
13-24	Morning Transition (0600-1000), January-December, 1994
25-36	Late Mid-day (1000-1600), January-December, 1994
37-48	Evening Transition (1600-2000), January-December, 1994
49-60	Night Time (2000-0600), January-December, 1994
61-72	All Stability Class A, January-December, 1994
73-84	All Stability Class B, January-December, 1994
85-96	All Stability Class C, January-December, 1994
97-108	All Stability Class D, January-December, 1994
109-120	All Stability Class E, January-December, 1994
121-132	All Stability Class F, January-December, 1994

Eight Meters

133-144	Total Hours (0000-2400),
145-156	Morning Transition (0600-1000), January-December, 1994
157-168	Late Mid-day (1000-1600), January-December, 1994
169-180	Evening Transition (1600-2000), January-December, 1994
181-192	Night Time (2000-0600), January-December, 1994
193-204	All Stability Class A, January-December, 1994
205-216	All Stability Class B, January-December, 1994
217-228	All Stability Class C, January-December, 1994

APPENDIX B: MONTHLY WIND ROSES, TWO AND EIGHT METERS (con't.)

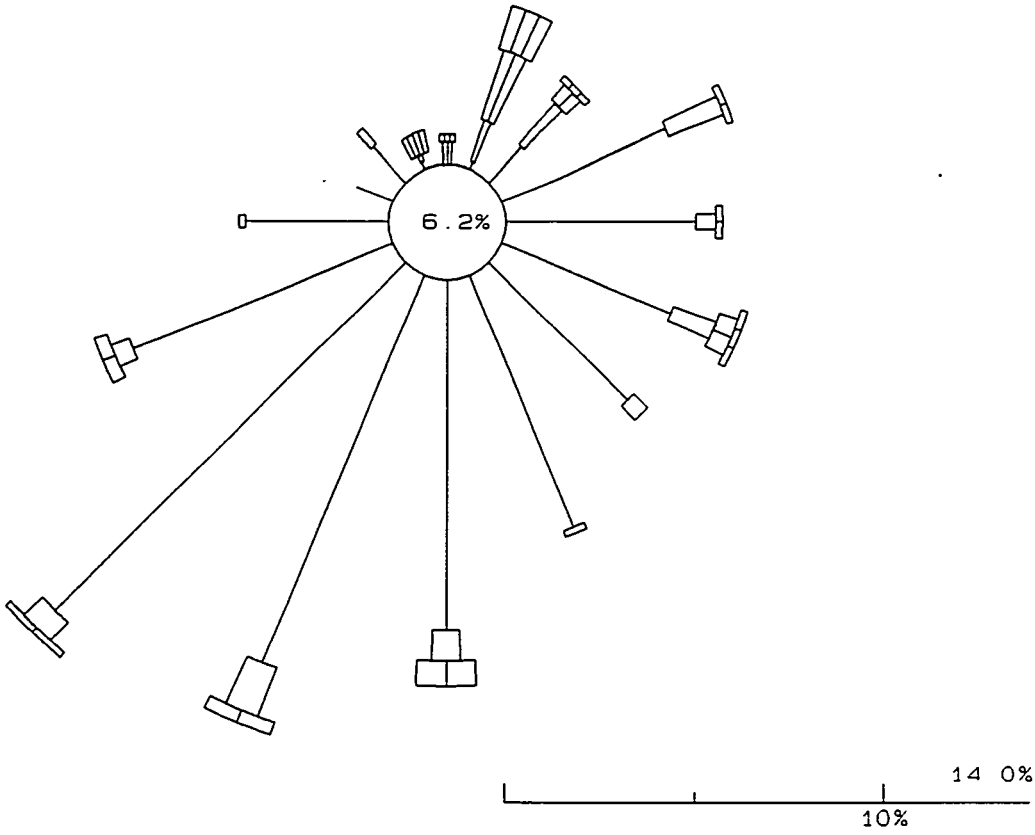
229-240 All Stability Class D, January-December, 1994

241-252 All Stability Class E, January-December, 1994

253-264 All Stability Class F, January-December, 1994

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
1/ 1/1994 - 1/31/1994
0 - 2300



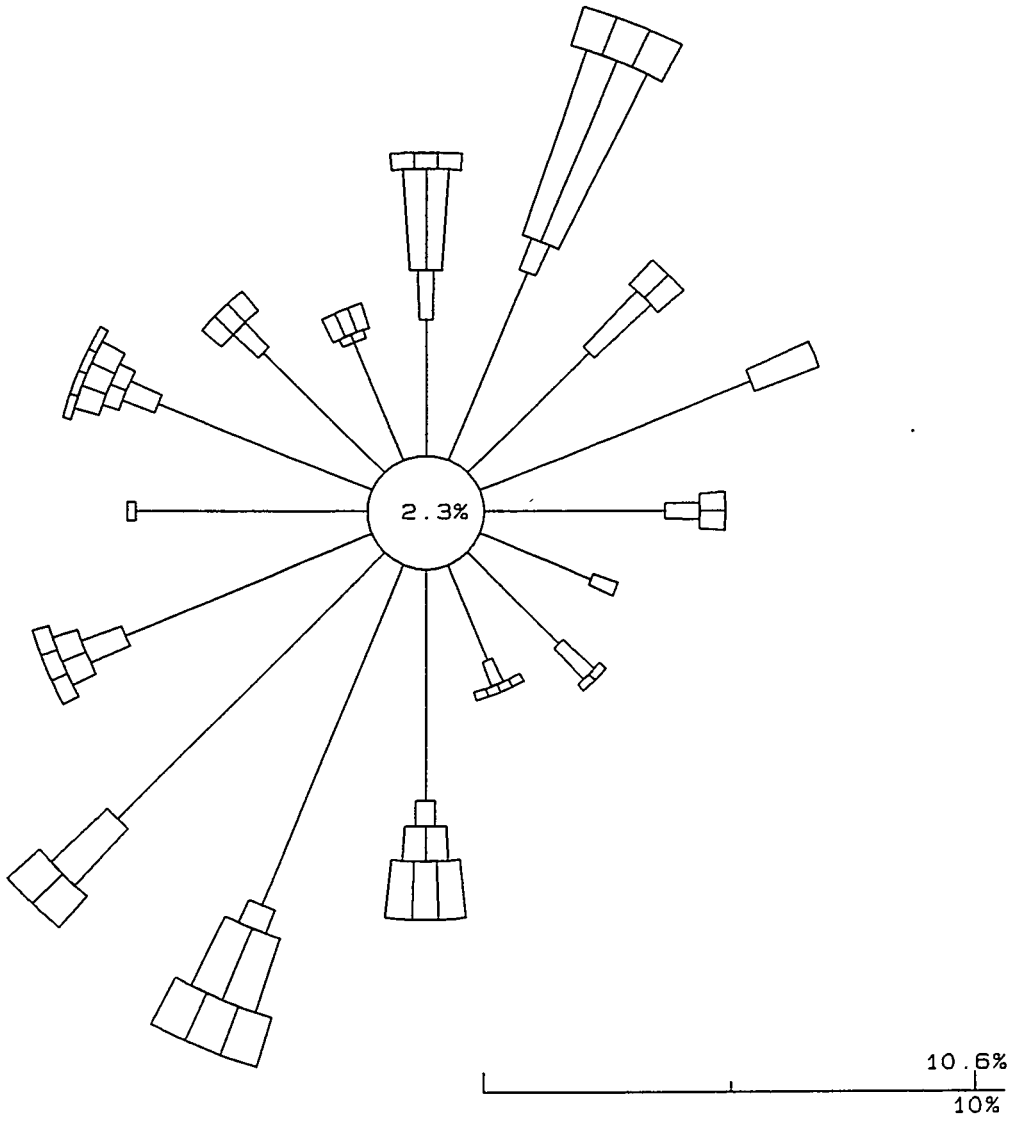
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

78.0% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
2/ 1/1994 - 2/28/1994
0 - 2300



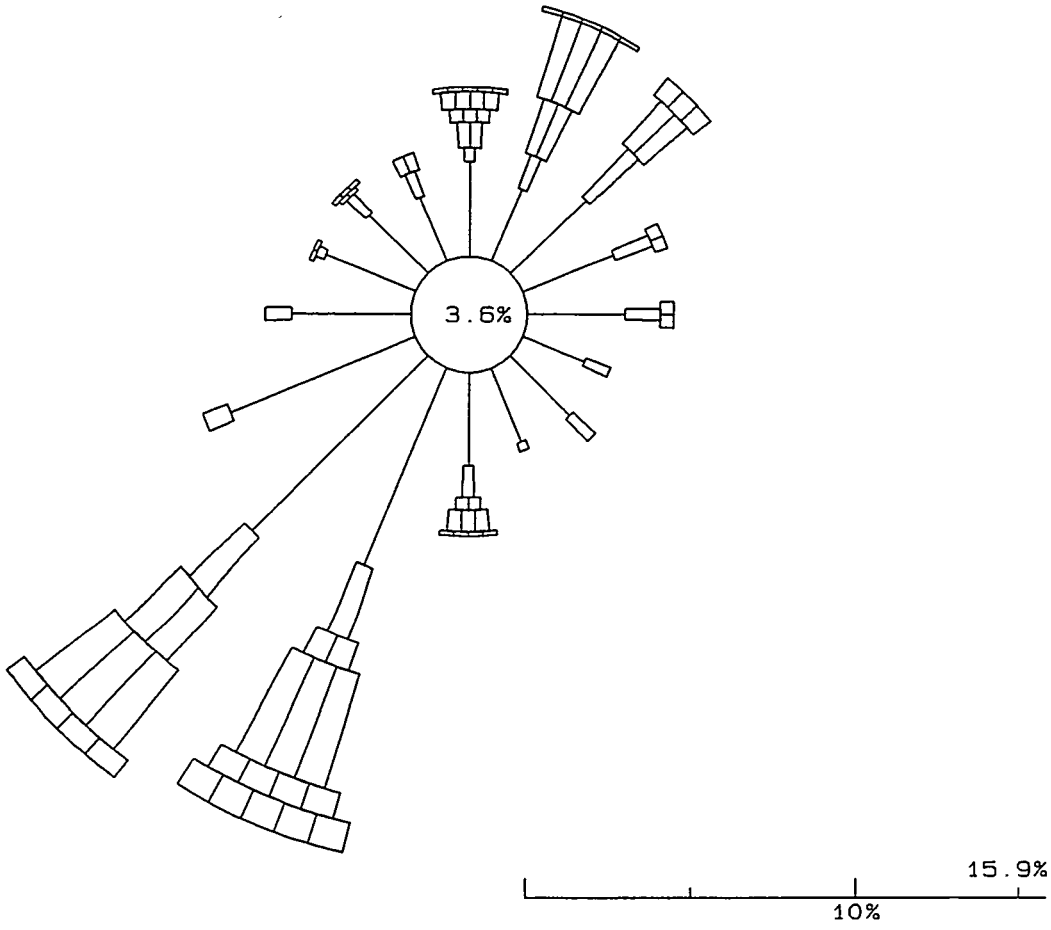
WIND SPEED CLASSES (MRS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

85.4% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
3/ 1/1994 - 3/31/1994
0 - 2300



WIND SPEED CLASSES (MPS)

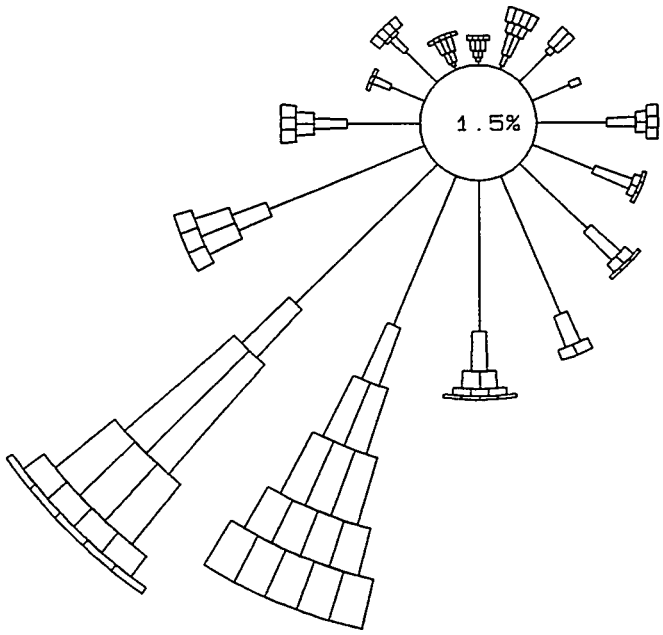
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
4/ 1/1994 - 4/30/1994
0 - 2300

N



20.0%
10%

WIND SPEED CLASSES (MPS)

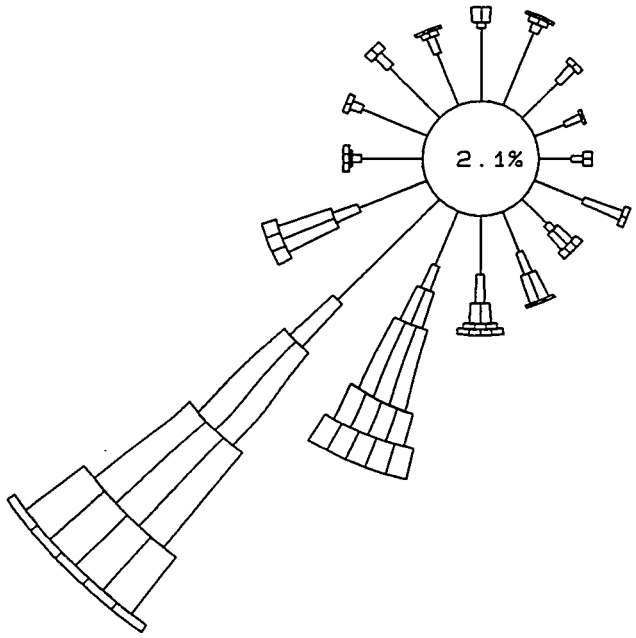
CALM	o	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

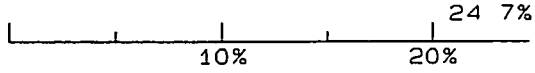
99.4% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
5/ 1/1994 - 5/31/1994
0 - 2300

N





WIND SPEED CLASSES (MPS)

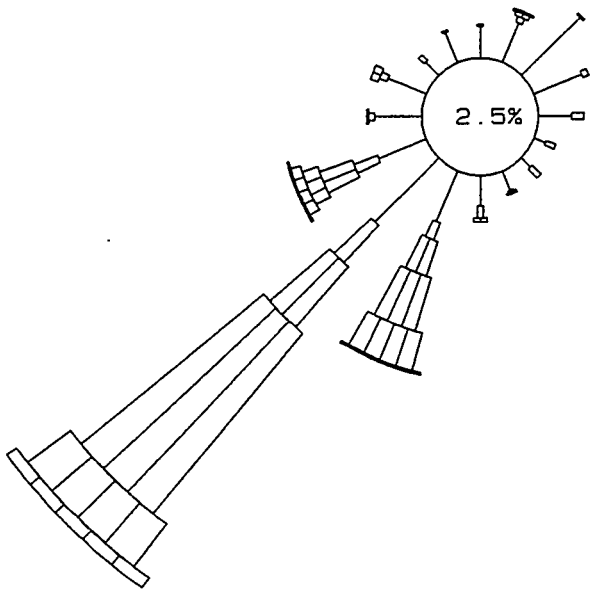
CALM	o	WS <= .5
1	!	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.9% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
6/ 1/1994 - 6/30/1994
0 - 2300

N



35.4%
10% 20% 30%

WIND SPEED CLASSES (MPS)

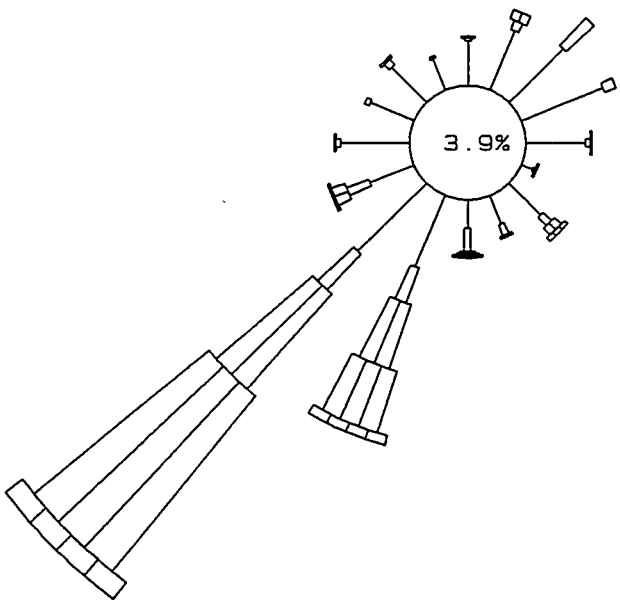
CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

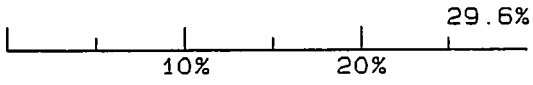
100.0% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
7/ 1/1994 - 7/31/1994
0 - 2300

N





WIND SPEED CLASSES (MPS)

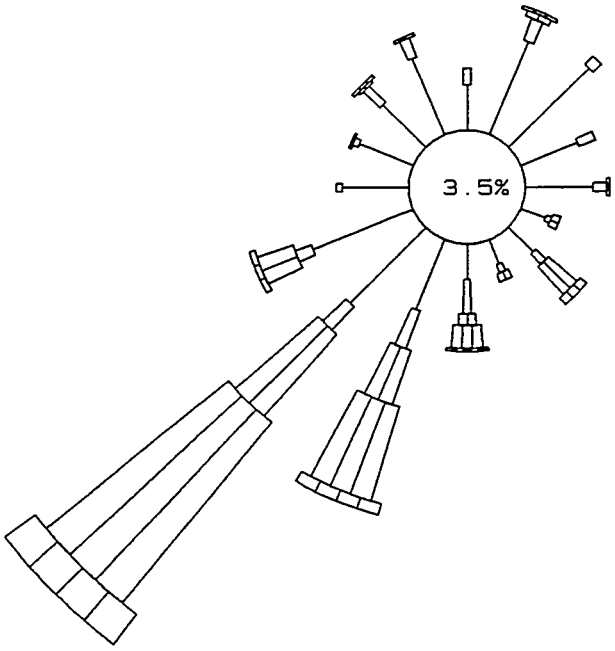
CALM	o	WS <= .5
1	!	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

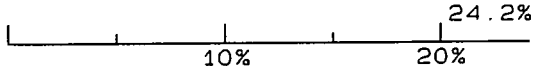
100.0% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
8/ 1/1994 - 8/31/1994
0 - 2300

N





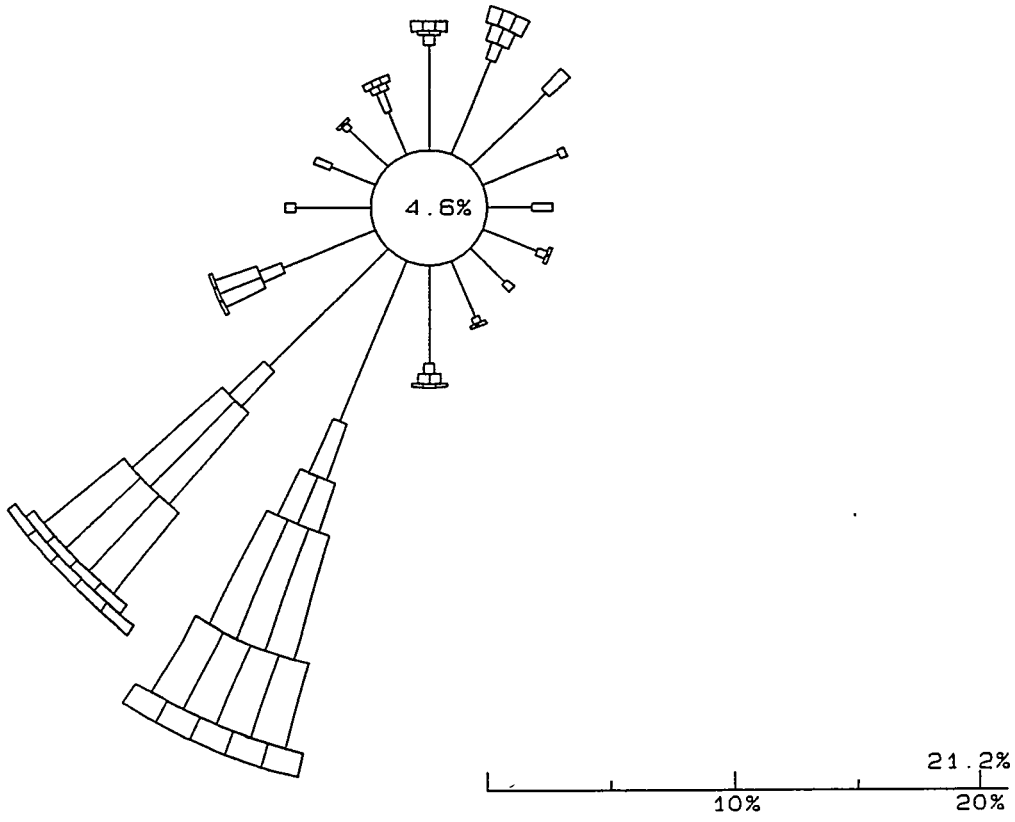
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
9/ 1/1994 - 9/30/1994
0 - 2300



WIND SPEED CLASSES (MPS)

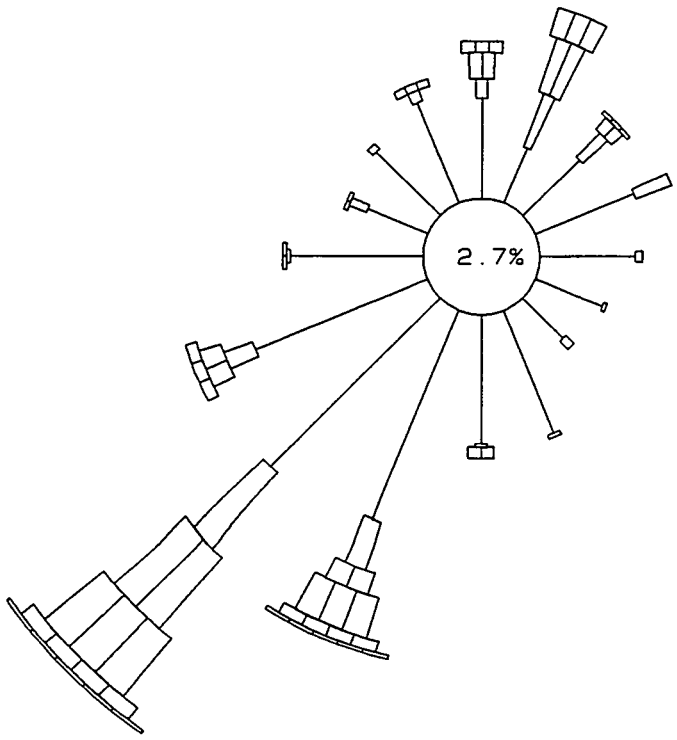
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.7% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
10/ 1/1994 - 10/31/1994
0 - 2300

N



18.5%
10%

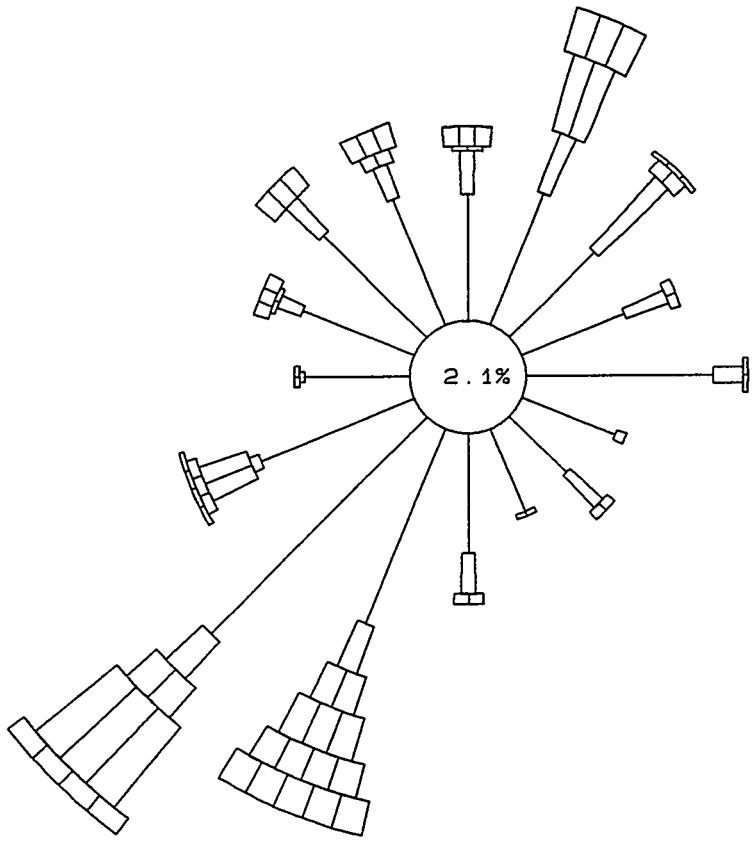
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
11/ 1/1994 - 11/30/1994
0 - 2300



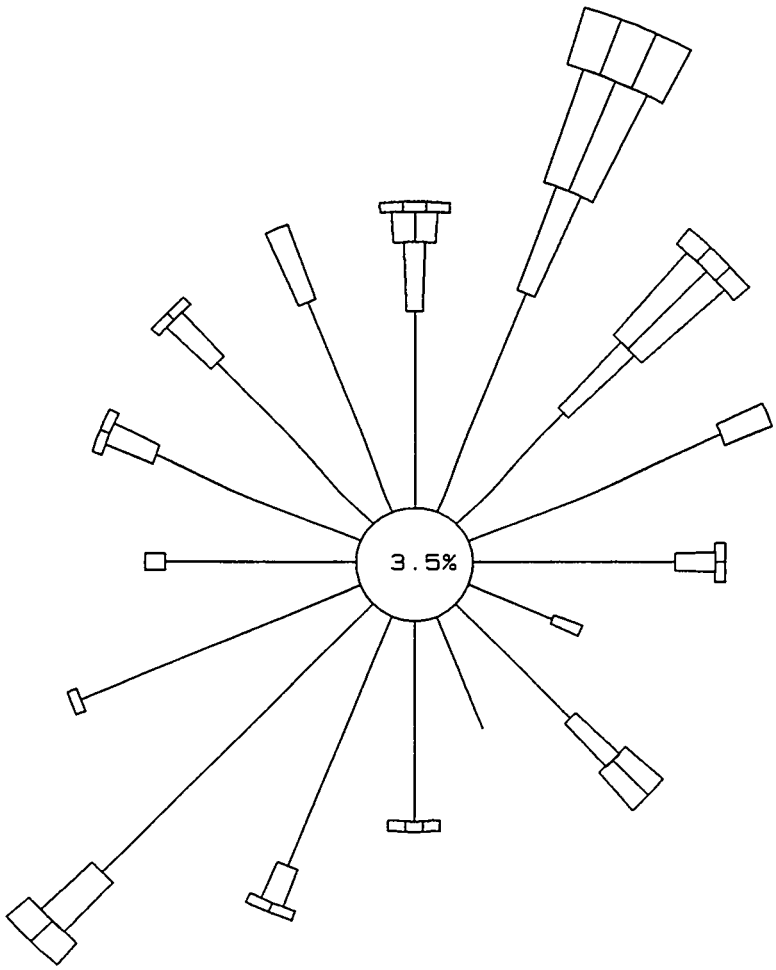
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	◻	1.8< WS <= 3.3
3	◻◻	3.3< WS <= 5.4
4	◻◻◻	5.4< WS <= 8.5
5	◻◻◻◻	8.5< WS <=10.8
6	◻◻◻◻◻	10.8< WS

100.0% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
12/ 1/1994 - 12/31/1994
0 - 2300



10.7%
10%

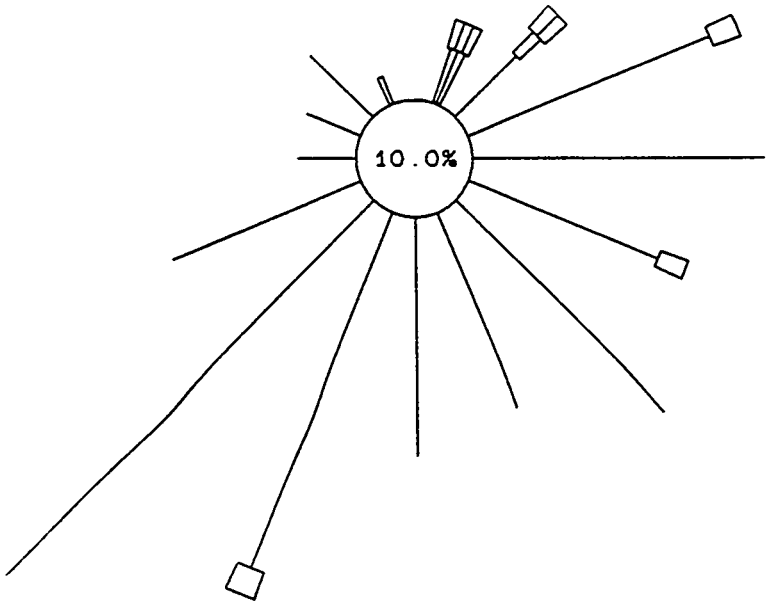
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

65.1% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
1/ 1/1994 - 1/31/1994
600 - 1000



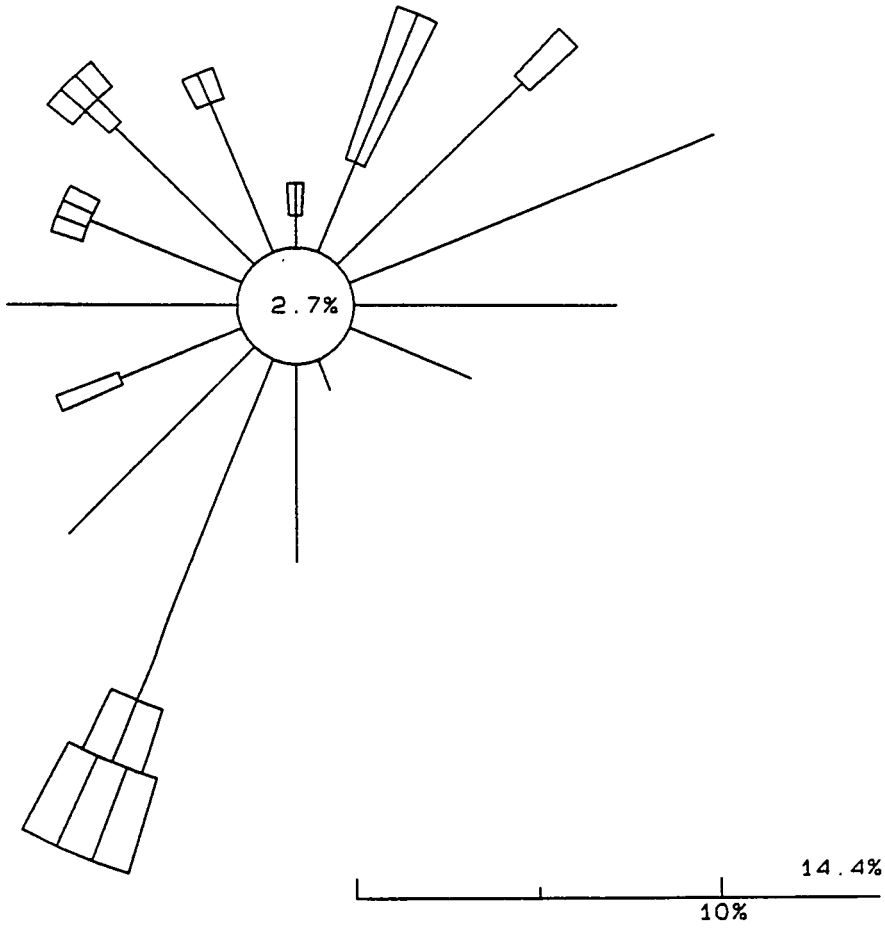
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

78.0% DATA RECOVERED
OF WHICH 20.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
2/ 1/1994 - 2/28/1994
600 - 1000



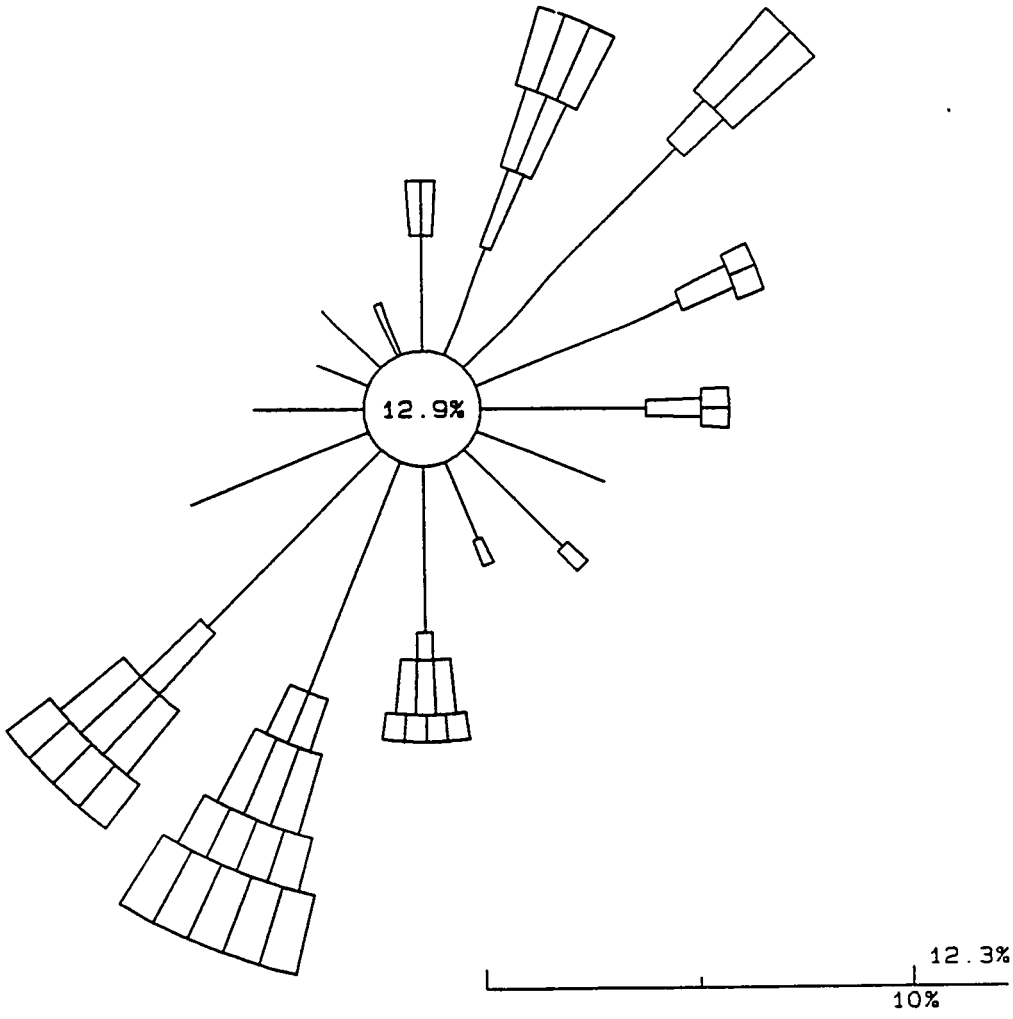
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

85.4% DATA RECOVERED
OF WHICH 19.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
3/ 1/1994 - 3/31/1994
600 - 1000



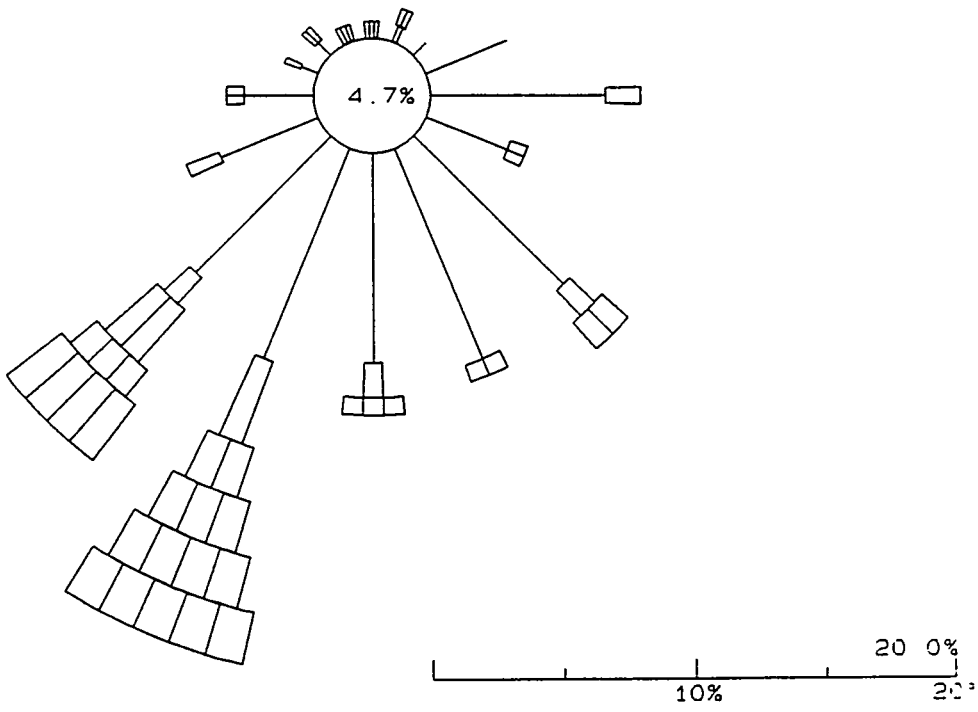
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
4/ 1/1994 - 4/30/1994
600 - 1000



WIND SPEED CLASSES (MPS)

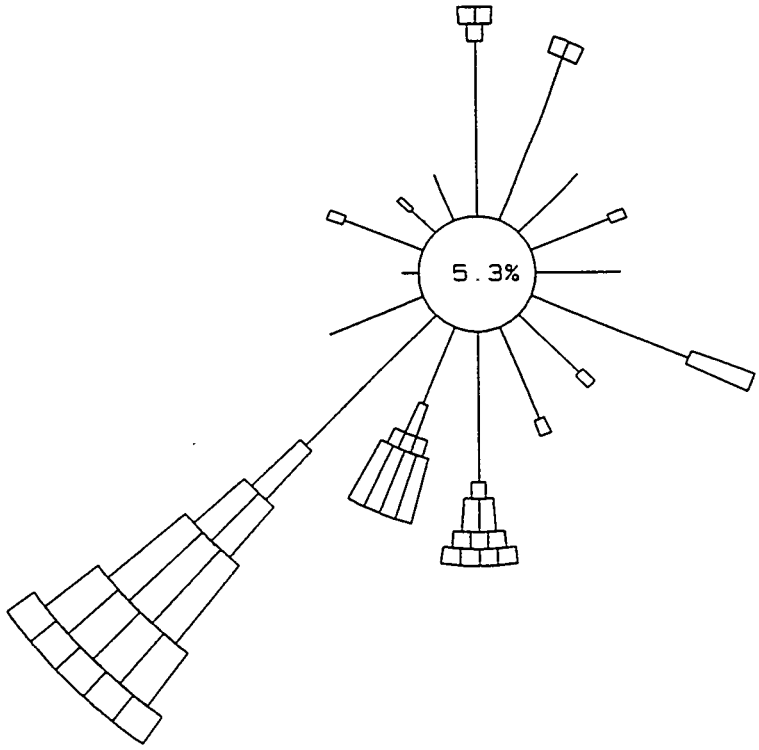
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	0	3.3< WS <= 5.4
4	0	5.4< WS <= 8.5
5	0	8.5< WS <=10.8
6	0	10.8< WS

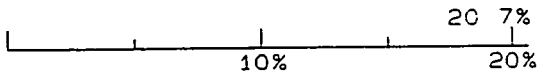
99.4% DATA RECOVERED
OF WHICH 20.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
5/ 1/1994 - 5/31/1994
600 - 1000

N





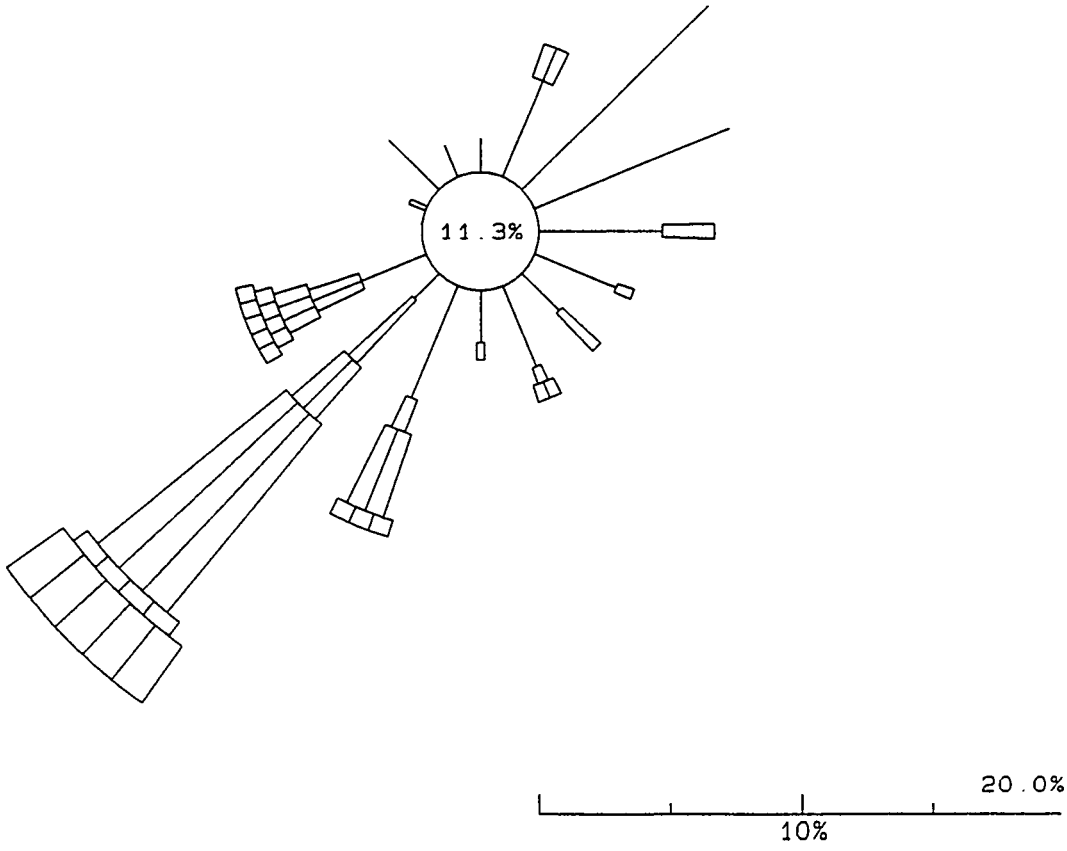
WIND SPEED CLASSES (MPS)

CALM	o	WS <= 5
1	I	.5< WS <= 1 8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5 4< WS <= 8 5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.9% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
6/ 1/1994 - 6/30/1994
600 - 1000



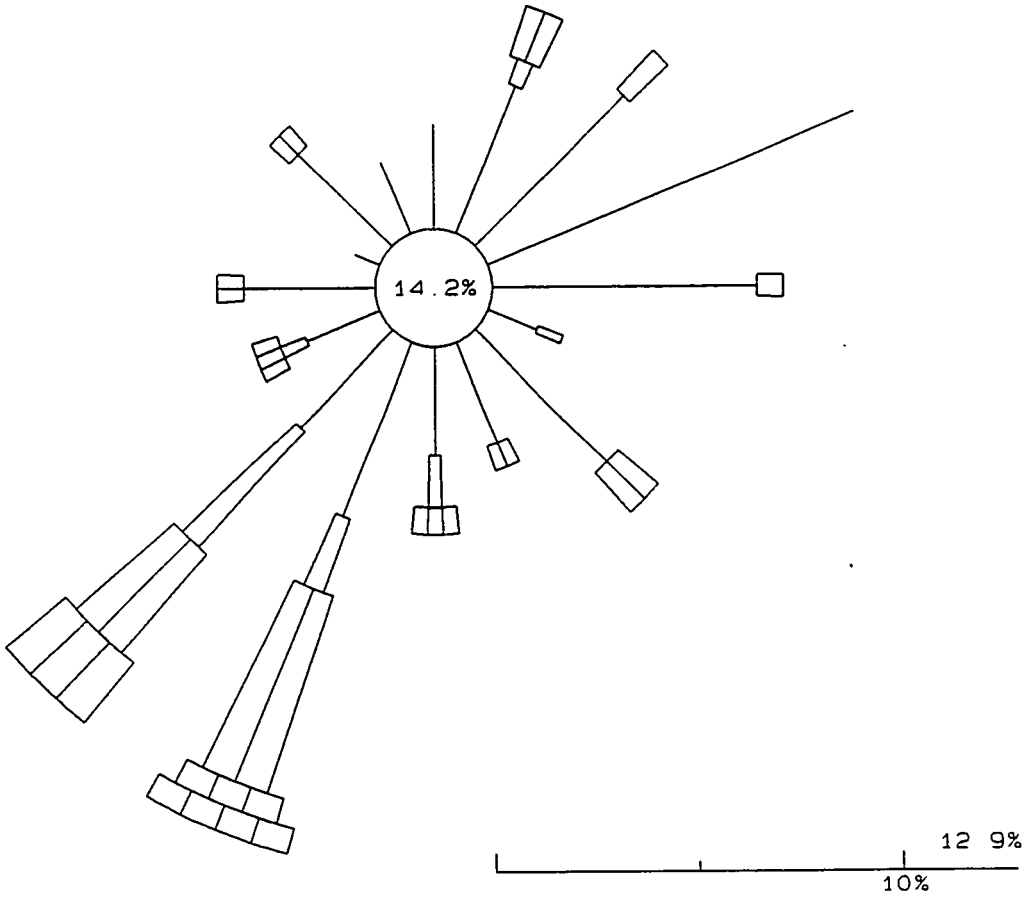
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
7/ 1/1994 - 7/31/1994
600 - 1000



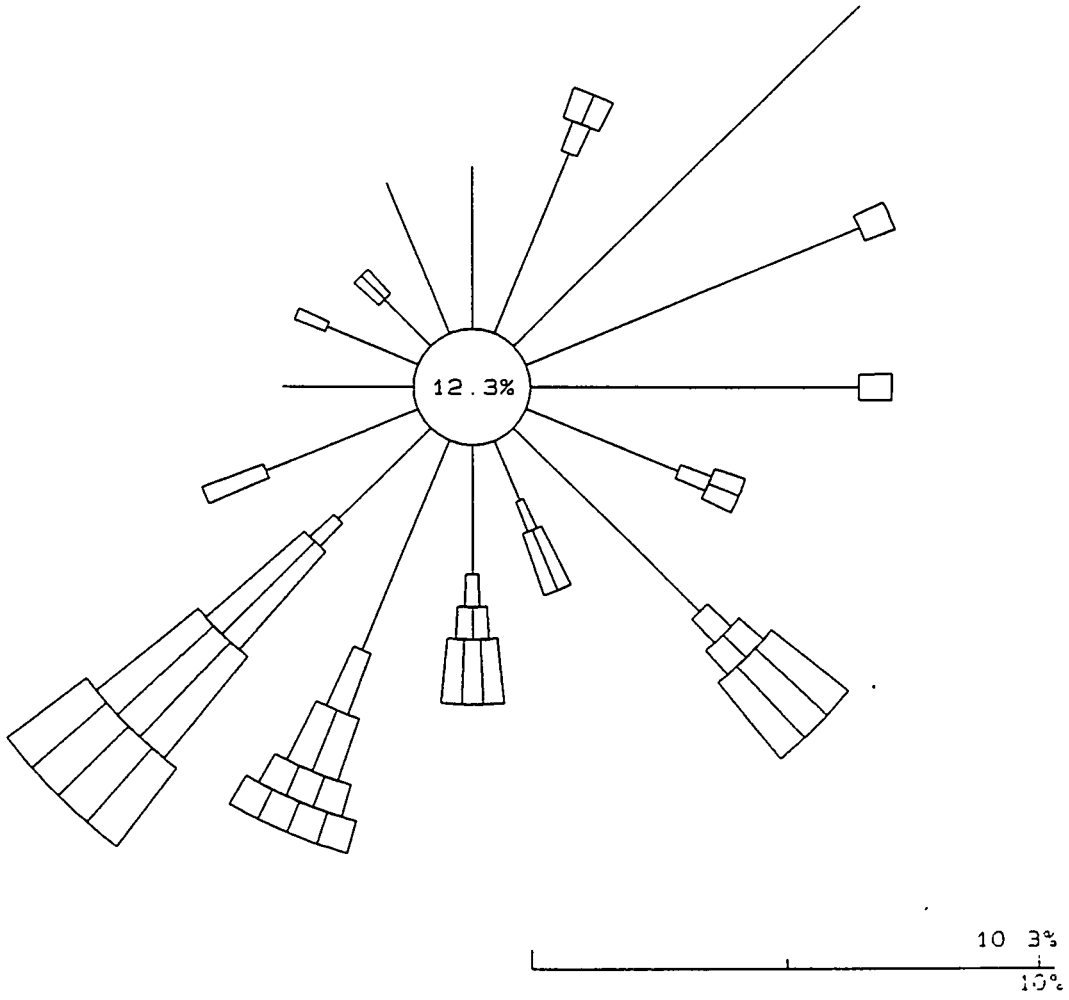
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1		.5< WS <= 1 8
2		1.8< WS <= 3 3
3		3.3< WS <= 5 4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
8/ 1/1994 - 8/31/1994
600 - 1000



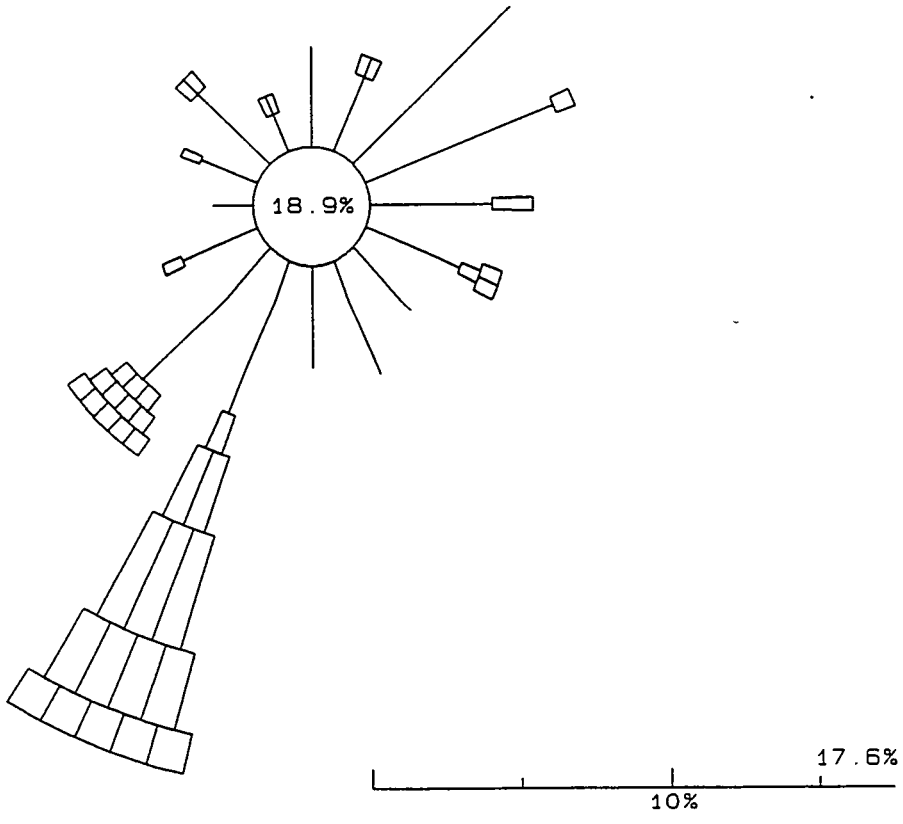
WIND SPEED CLASSES (MPS)

CALM	0	WS <= 5
1	1	.5< WS <= 1 8
2	0	1 8< WS <= 3.3
3	0	3 3< WS <= 5.4
4	0	5.4< WS <= 8.5
5	0	8.5< WS <=10.8
6	0	10 8< WS

100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
9/ 1/1994 - 9/30/1994
600 - 1000



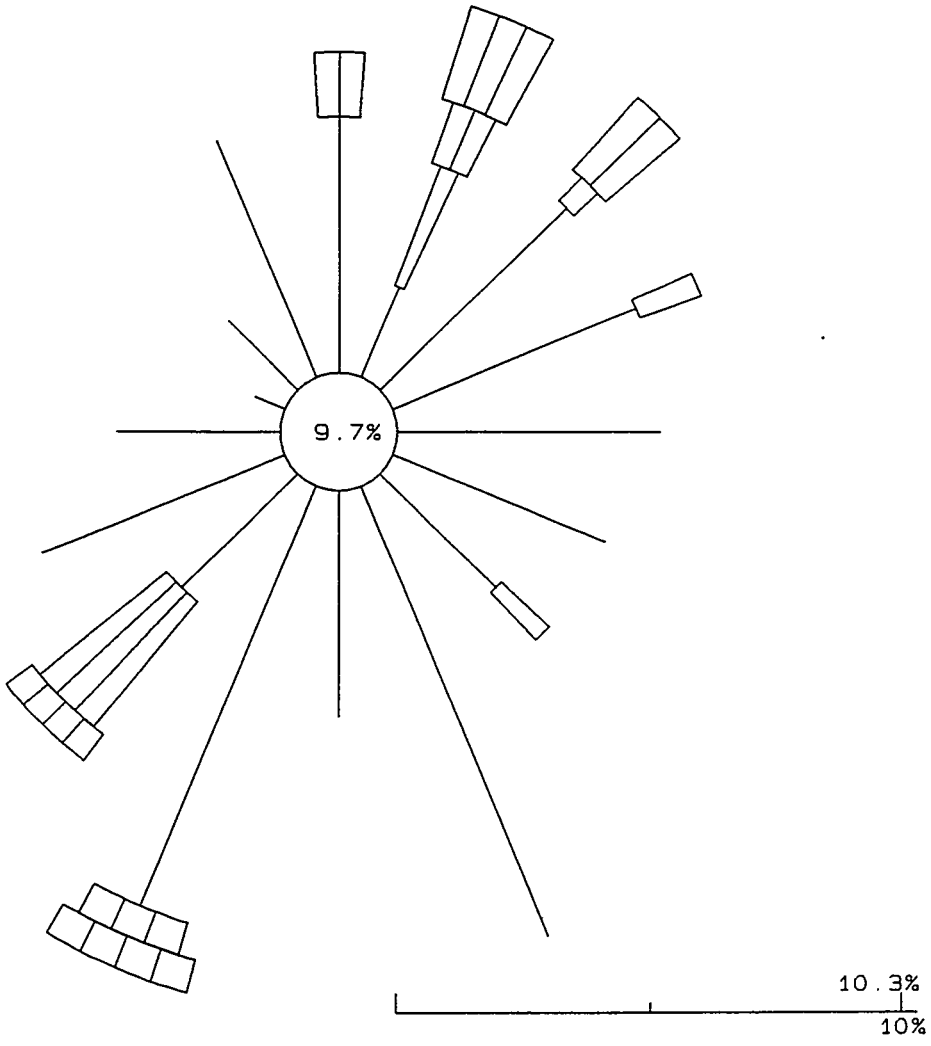
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	0	3.3< WS <= 5 4
4	0	5.4< WS <= 8 5
5	0	8.5< WS <=10 8
6	0	10.8< WS

99.7% DATA RECOVERED
OF WHICH 20.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
10/ 1/1994 - 10/31/1994
600 - 1000



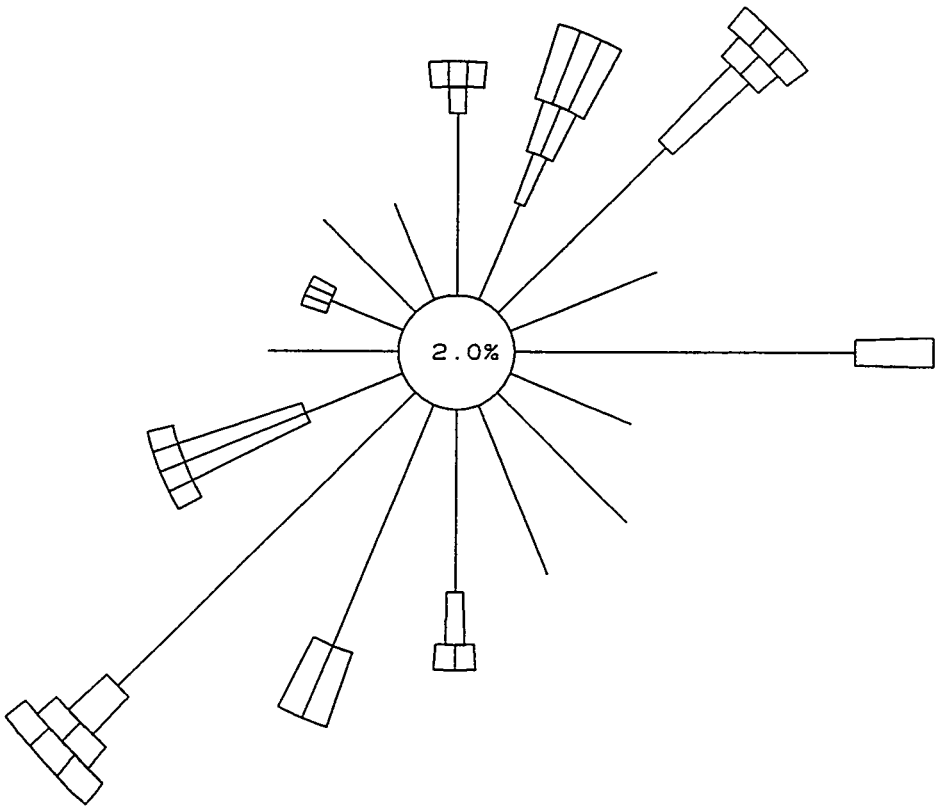
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
11/ 1/1994 - 11/30/1994
600 - 1000



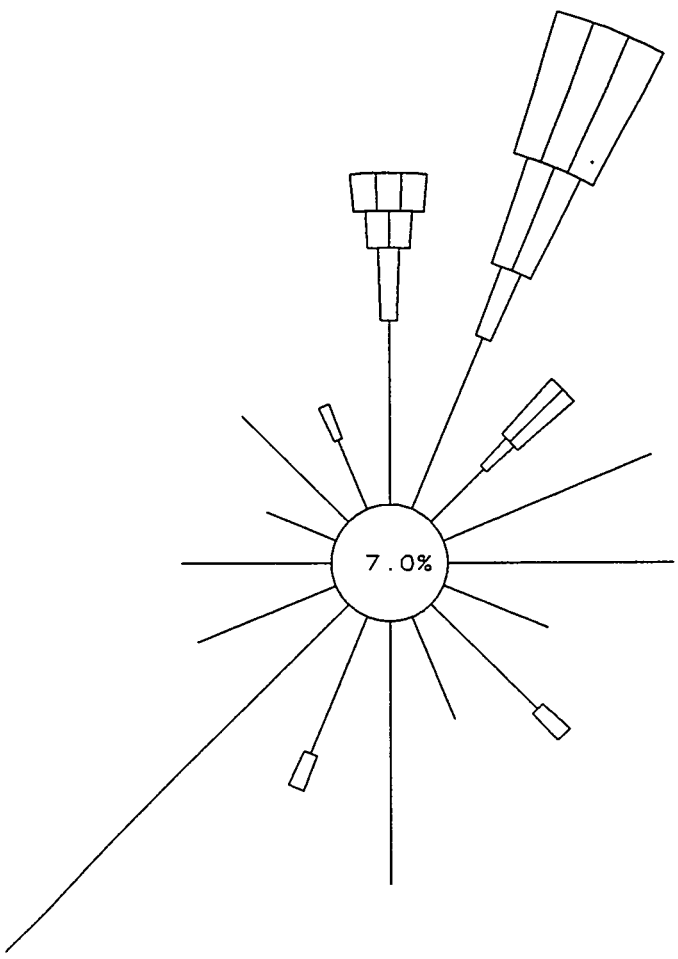
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS. <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
12/ 1/1994 - 12/31/1994
600 - 1000



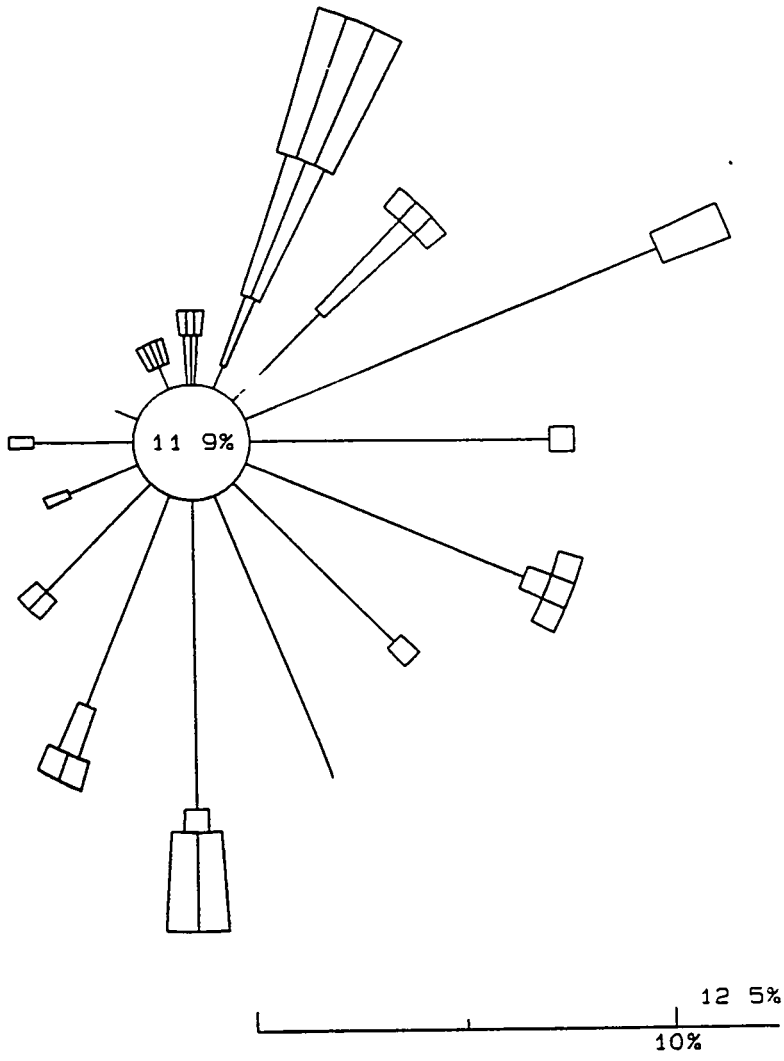
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

65.1% DATA RECOVERED
OF WHICH 20.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
1/ 1/1994 - 1/31/1994
1000 - 1600



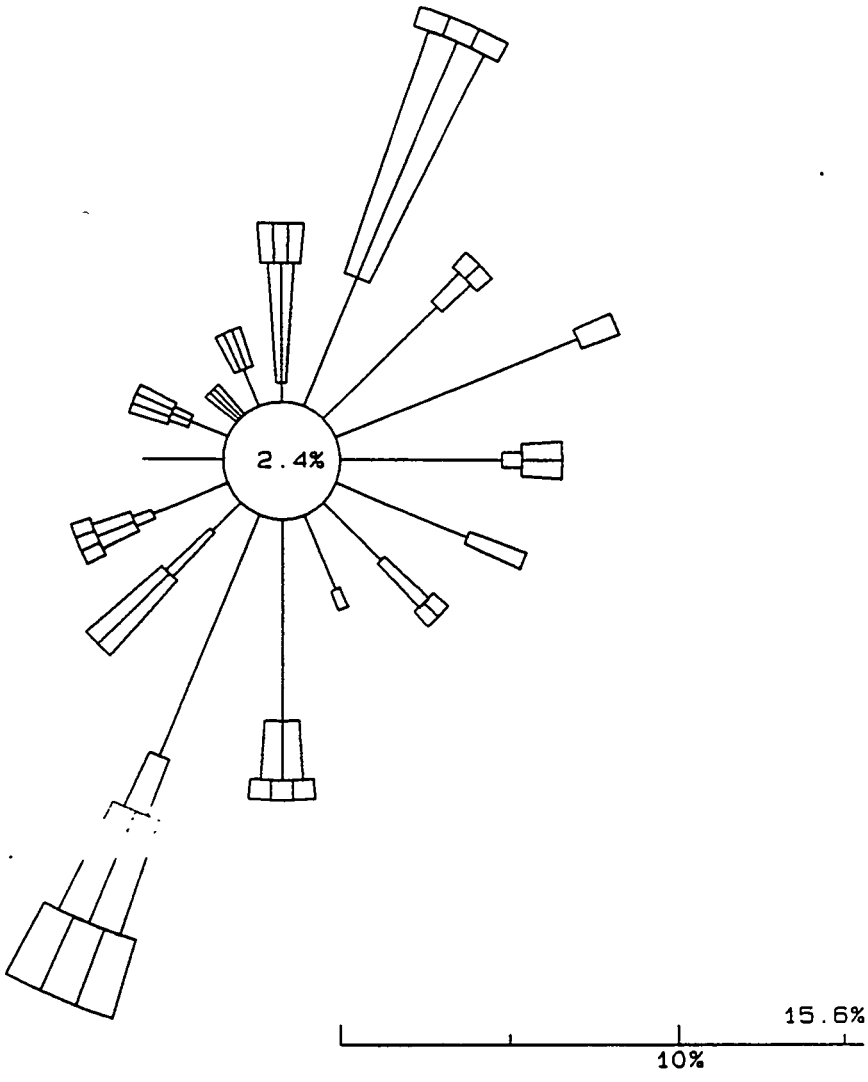
WIND SPEED CLASSES (MPS)

CALM	0	WS <= 5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

78.0% DATA RECOVERED
OF WHICH 29 0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
2/ 1/1994 - 2/28/1994
1000 - 1600



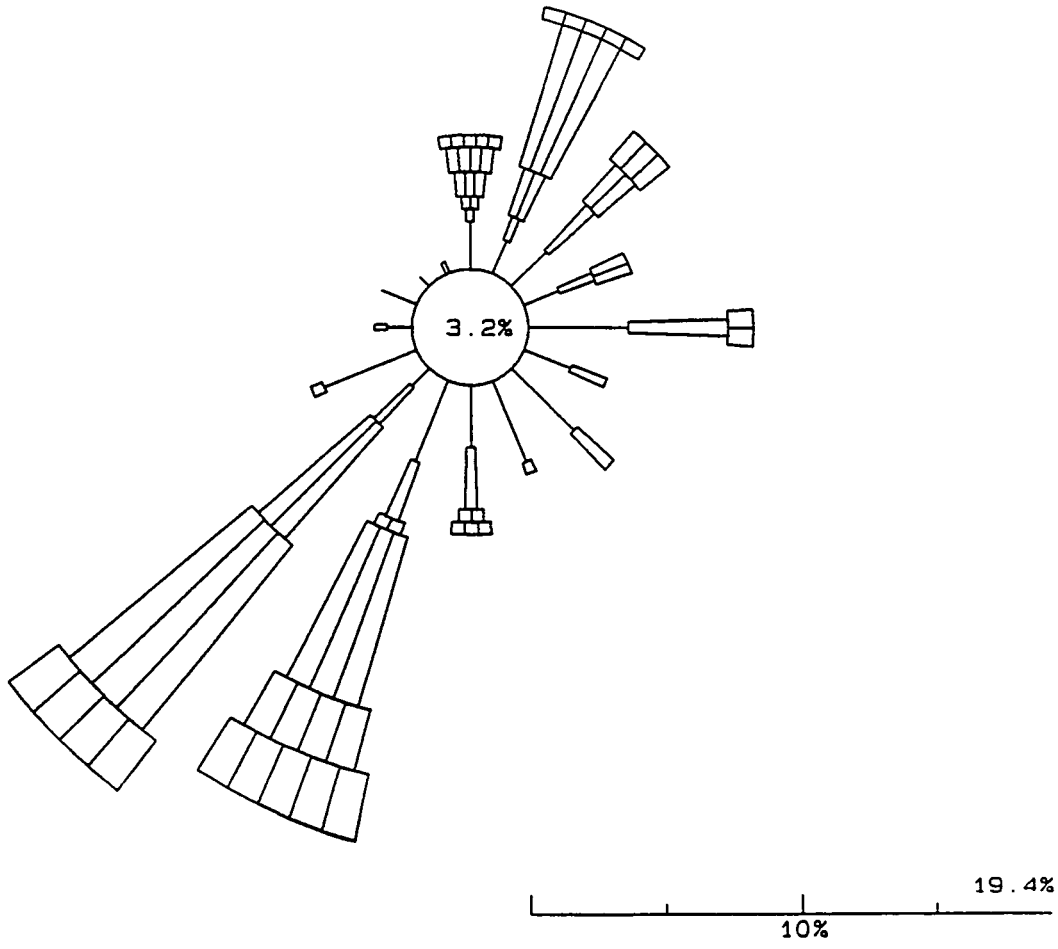
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	!	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

85.4% DATA RECOVERED
OF WHICH 29.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
3/ 1/1994 - 3/31/1994
1000 - 1600



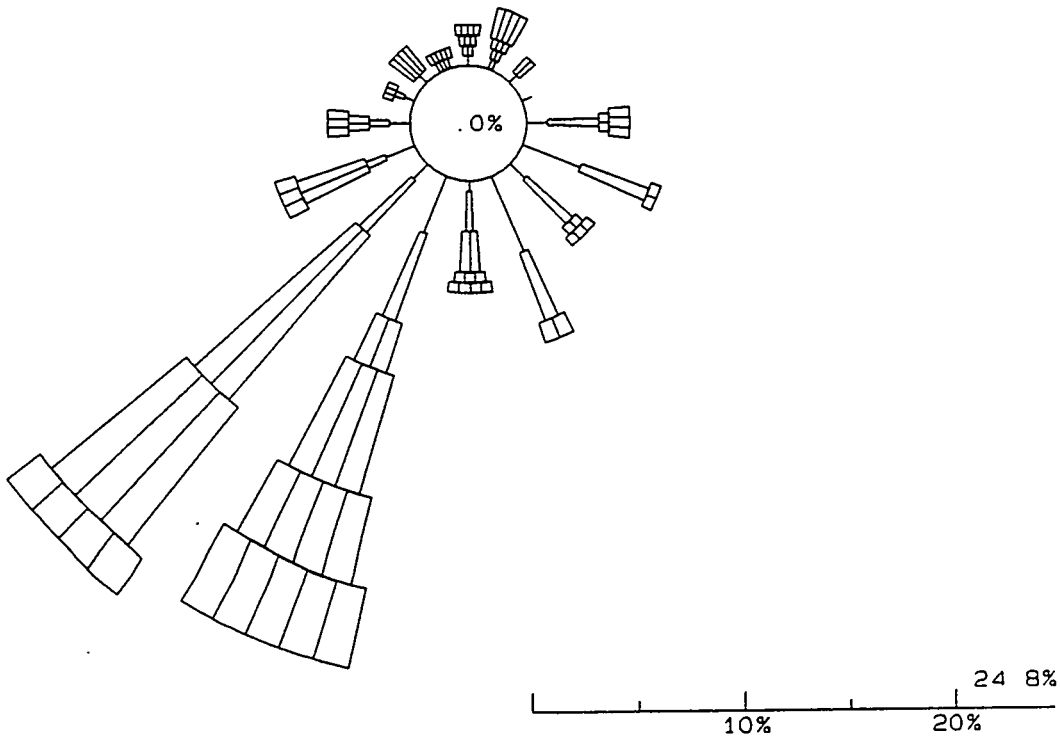
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

100.0% DATA RECOVERED
OF WHICH 29.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
4/ 1/1994 - 4/30/1994
1000 - 1600



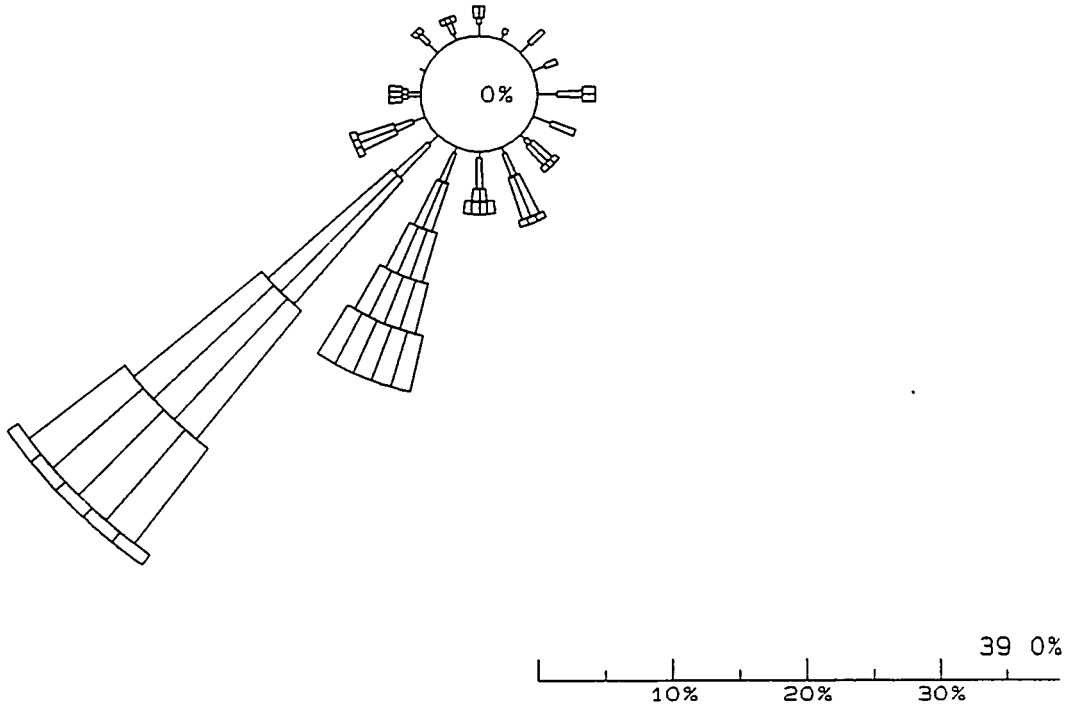
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1 8
2	0	1.8< WS <= 3.3
3	0	3.3< WS <= 5.4
4	0	5 4< WS <= 8 5
5	0	8.5< WS <=10 8
6	0	10.8< WS

99.4% DATA RECOVERED
OF WHICH 28.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
5/ 1/1994 - 5/31/1994
1000 - 1600



WIND SPEED CLASSES (MPS)

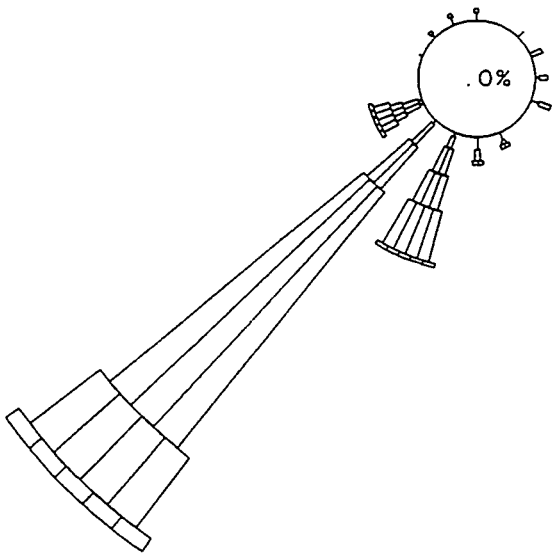
CALM	0	WS <= 5
1	1	.5< WS <= 1 8
2	2	1.8< WS <= 3 3
3	3	3.3< WS <= 5 4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

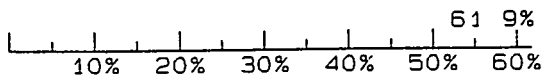
96.9% DATA RECOVERED
OF WHICH 29 1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
6/ 1/1994 - 6/30/1994
1000 - 1600

N





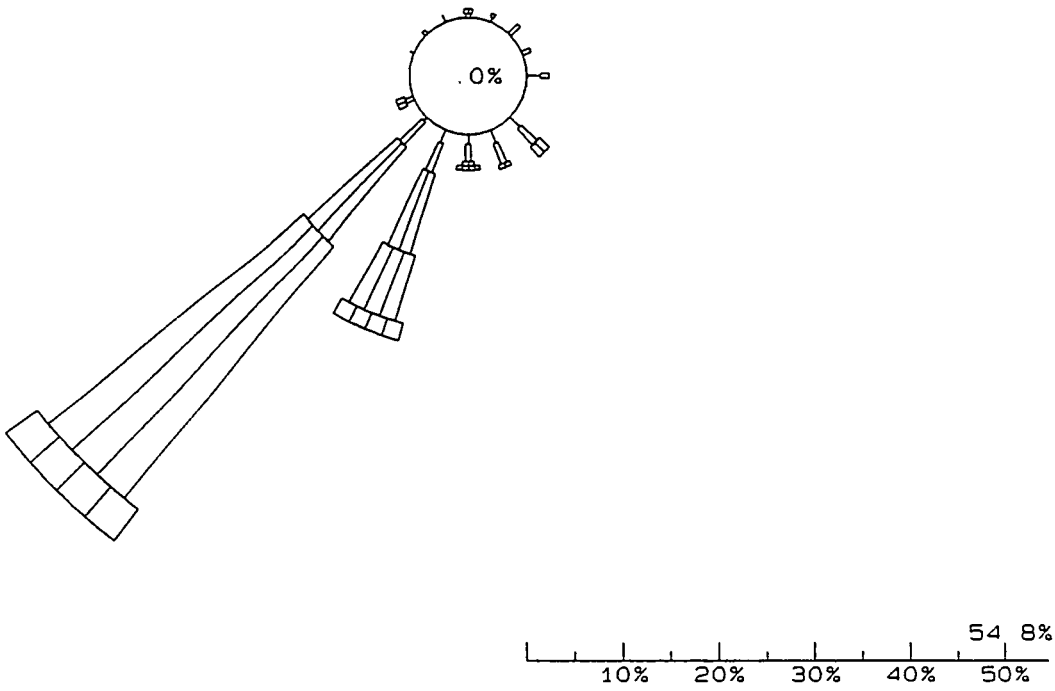
WIND SPEED CLASSES (MPS)

CALM	o	WS <= 5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5 4
4	□□□	5 4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 29.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
7/ 1/1994 - 7/31/1994
1000 - 1600



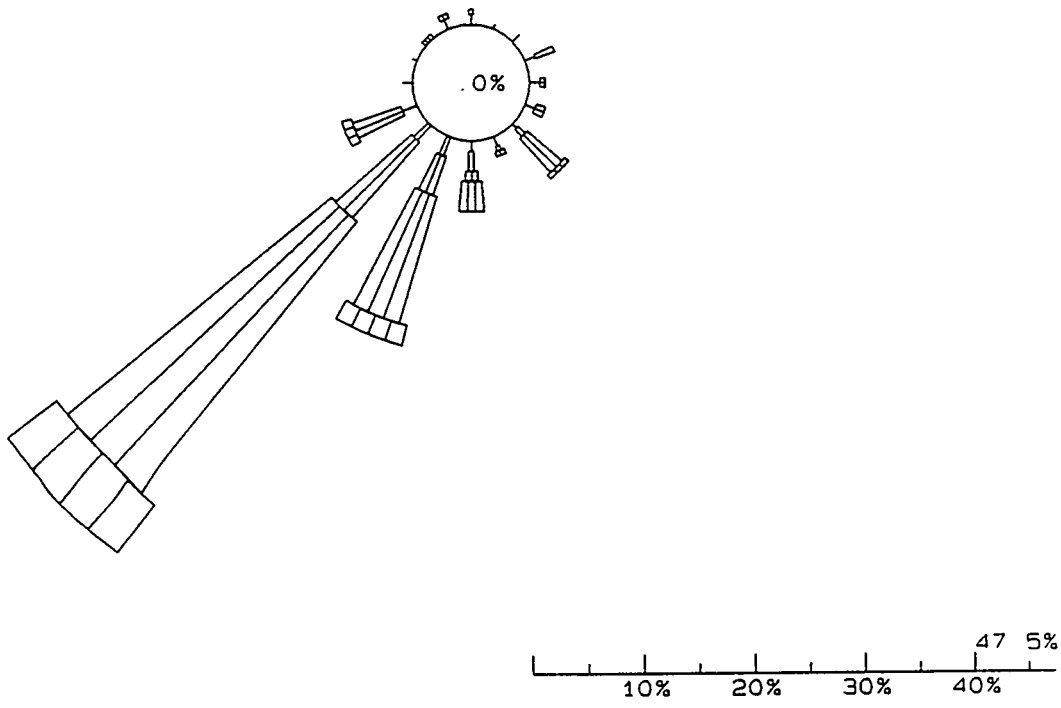
WIND SPEED CLASSES (MPS)

CALM	0		WS <= .5
1	1	.5<	WS <= 1.8
2	0	1.8<	WS <= 3.3
3	0	3.3<	WS <= 5.4
4	0	5.4<	WS <= 8.5
5	0	8.5<	WS <= 10.8
6	0	10.8<	WS

100.0% DATA RECOVERED
OF WHICH 29.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
8/ 1/1994 - 8/31/1994
1000 - 1600



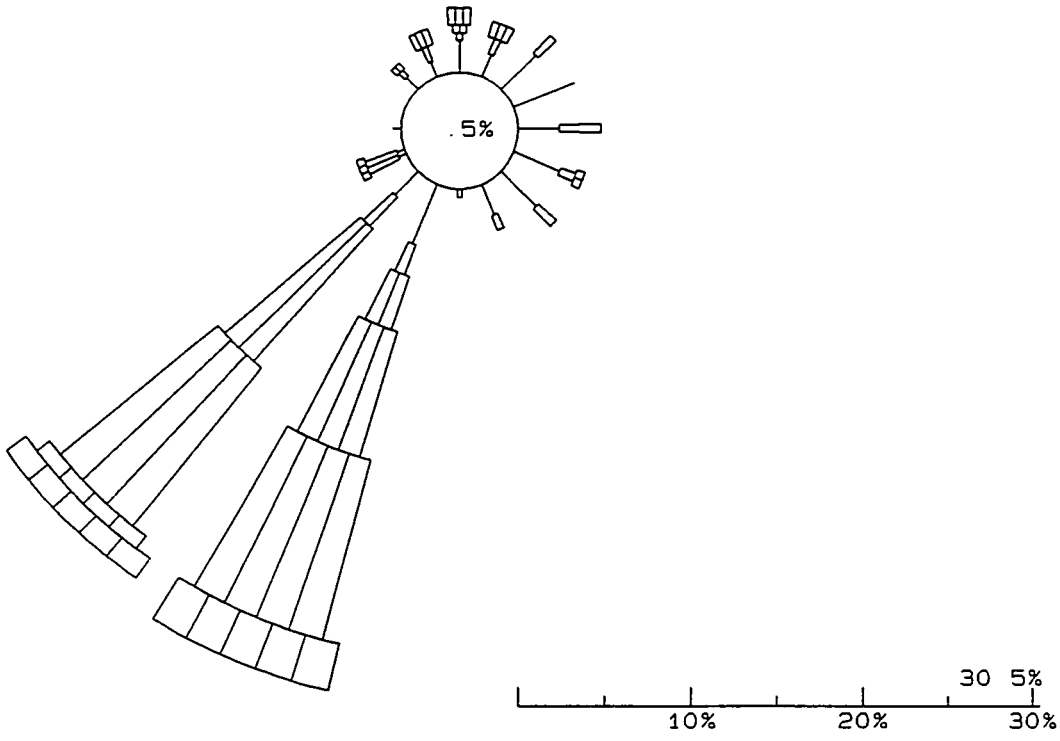
WIND SPEED CLASSES (MPS)

CALM	0			WS	<=	5
1			5<	WS	<=	1 8
2		1	8<	WS	<=	3 3
3		3	3<	WS	<=	5 4
4		5	4<	WS	<=	8.5
5		8.5	<	WS	<=	10.8
6		10	8<	WS		

100 0% DATA RECOVERED
OF WHICH 29.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
9/ 1/1994 - 9/30/1994
1000 - 1600



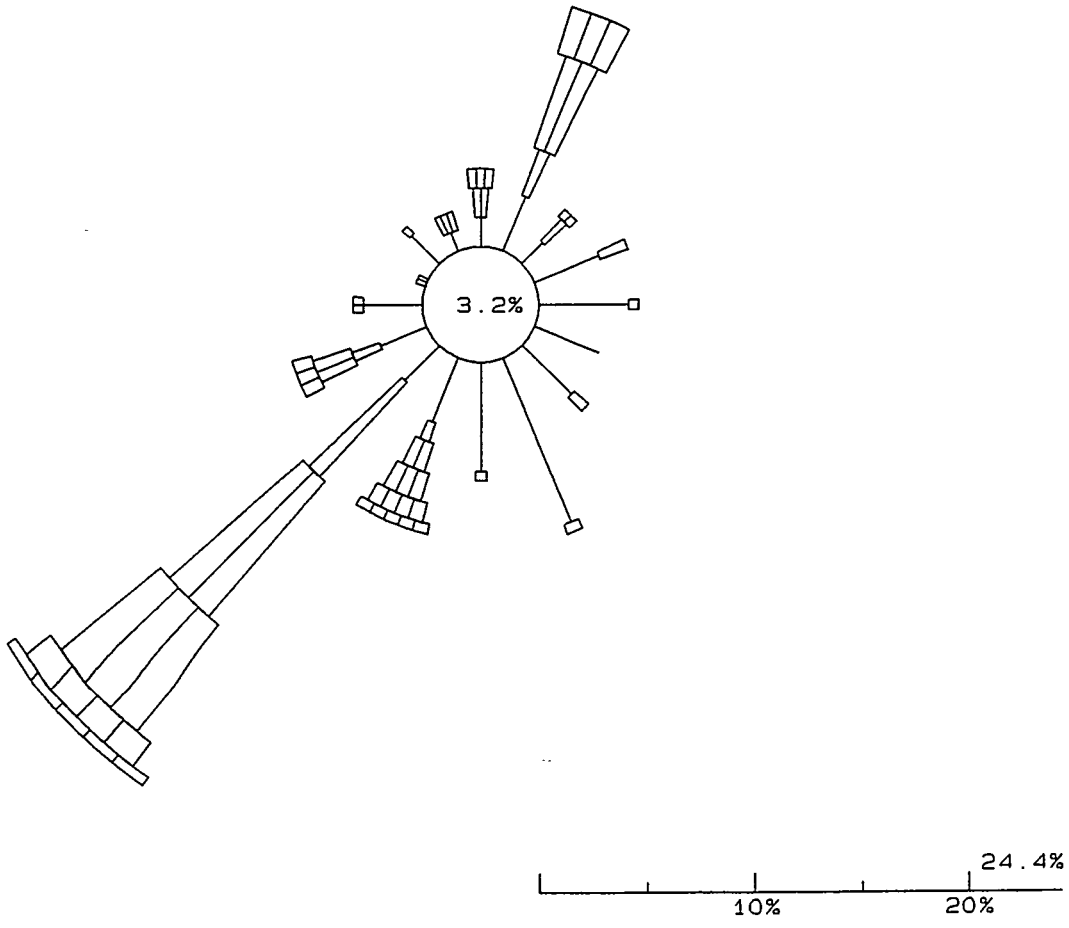
WIND SPEED CLASSES (MPS)

CALM	0		WS <= .5
1		.5<	WS <= 1.8
2		1.8<	WS <= 3.3
3		3.3<	WS <= 5.4
4		5.4<	WS <= 8.5
5		8.5<	WS <=10.8
6		10.8<	WS

99.7% DATA RECOVERED
OF WHICH 29.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
10/ 1/1994 - 10/31/1994
1000 - 1600



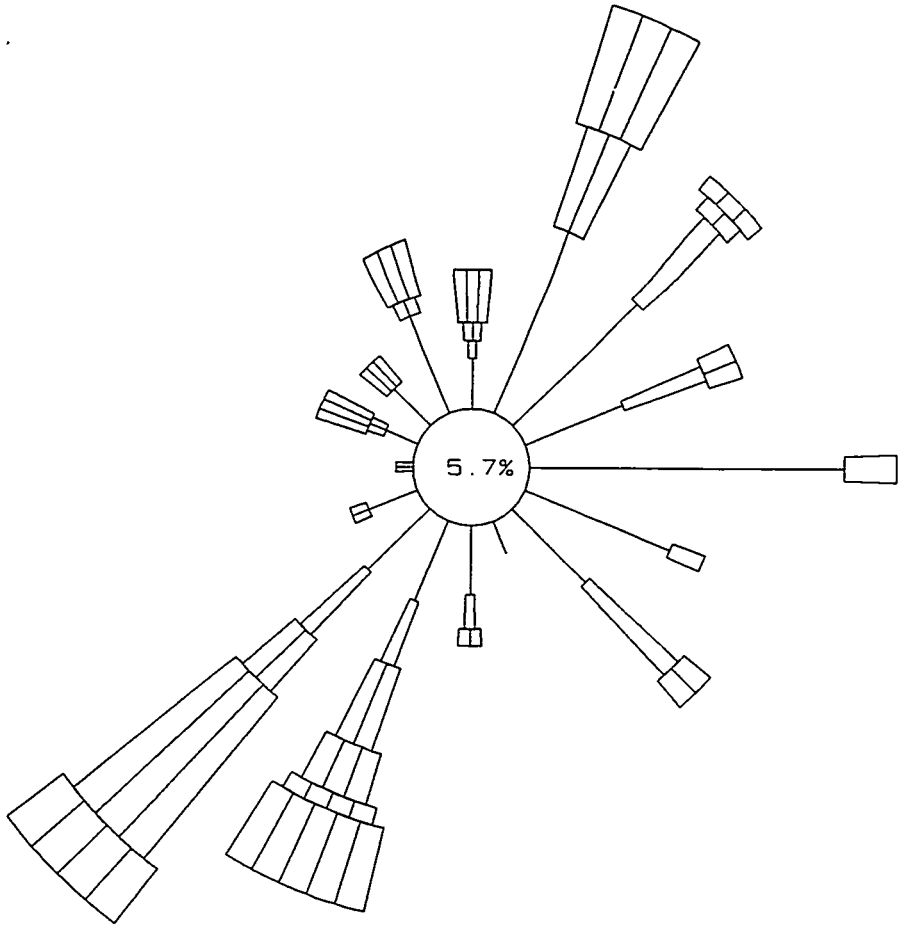
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 29.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
11/ 1/1994 - 11/30/1994
1000 - 1600



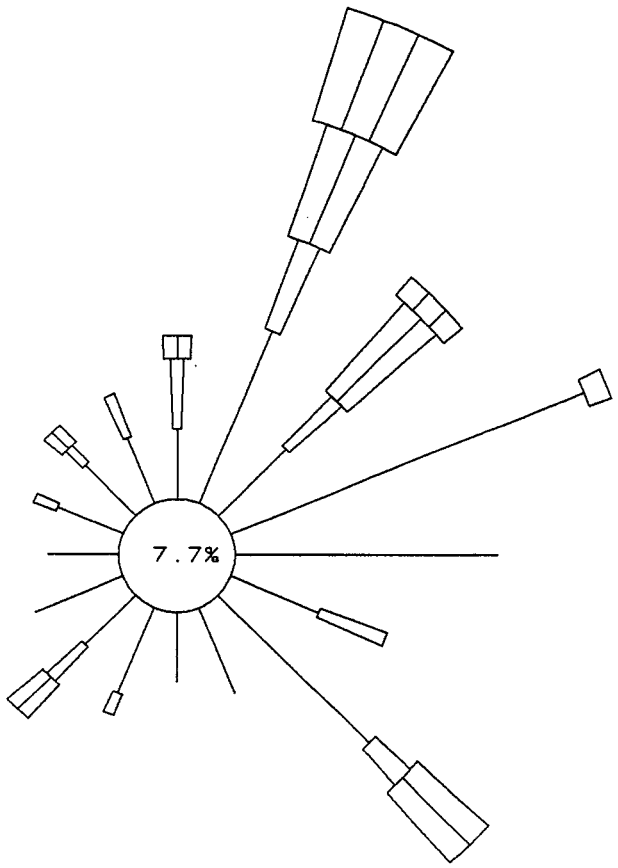
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	O	1.8< WS <= 3.3
3	OI	3.3< WS <= 5.4
4	OOI	5.4< WS <= 8.5
5	OOOI	8.5< WS <=10.8
6	OOOOI	10.8< WS

100.0% DATA RECOVERED
OF WHICH 29 2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
12/ 1/1994 - 12/31/1994
1000 - 1600



15.4%
10%

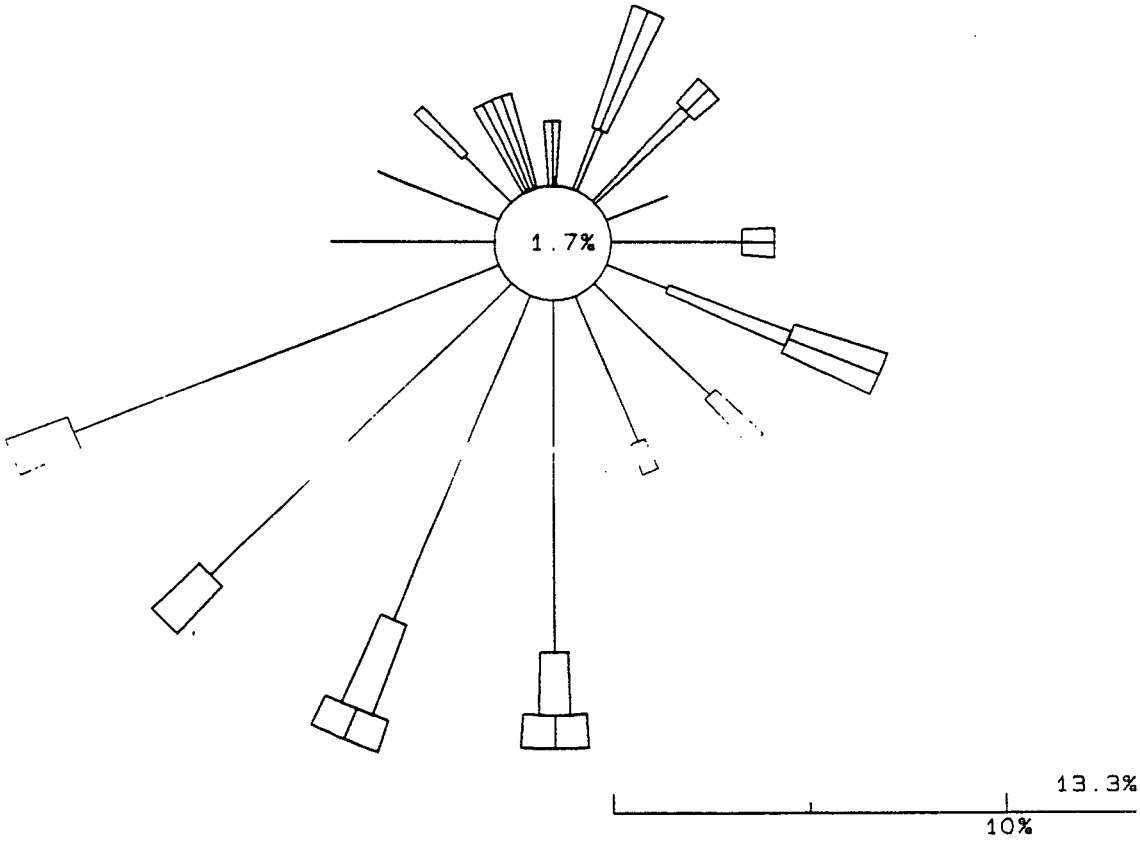
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

65.1% DATA RECOVERED
OF WHICH 29.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
1/ 1/1994 - 1/31/1994
1600 - 2000



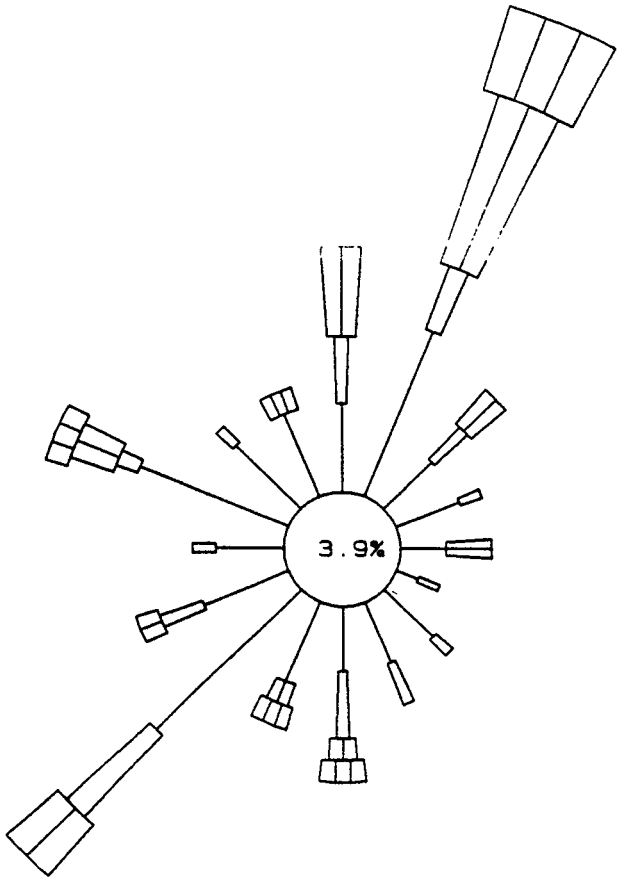
WIND SPEED CLASSES (MPS)

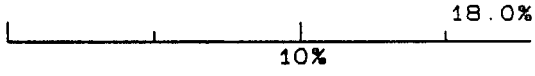
CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

78.0% DATA RECOVERED
OF WHICH 20.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
2/ 1/1994 - 2/28/1994
1600 - 2000





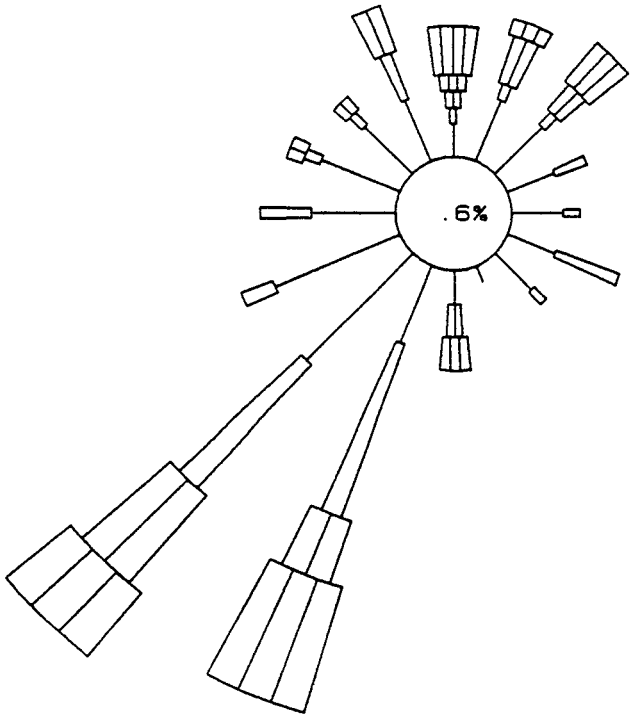
WIND SPEED CLASSES (MPS)

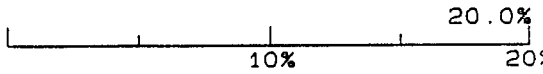
CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5 4< WS <= 8.5
5		8 5< WS <=10 8
6		10.8< WS

85.4% DATA RECOVERED
OF WHICH 22.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
3/ 1/1994 - 3/31/1994
1600 - 2000





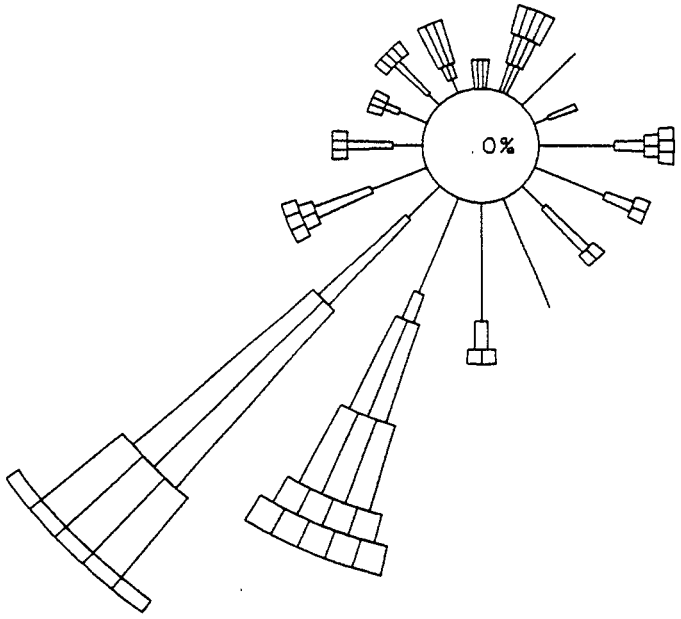
WIND SPEED CLASSES (MPS)

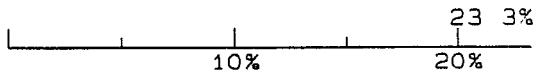
CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
4/ 1/1994 - 4/30/1994
1600 - 2000





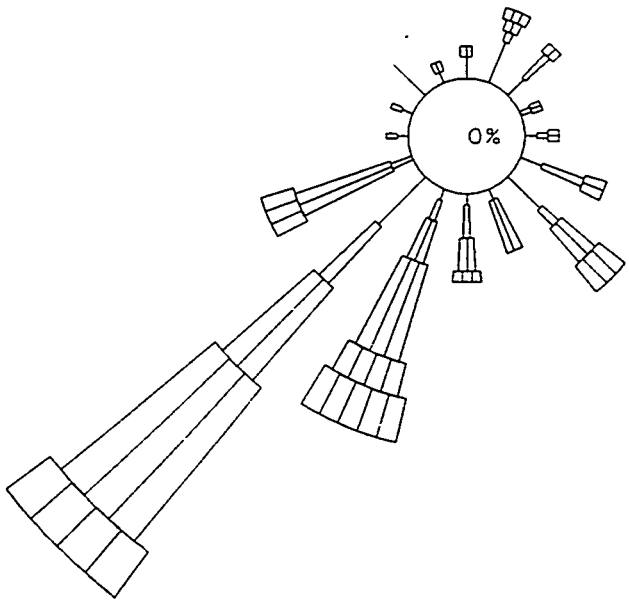
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.4% DATA RECOVERED
OF WHICH 20.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
5/ 1/1994 - 5/31/1994
1600 - 2000





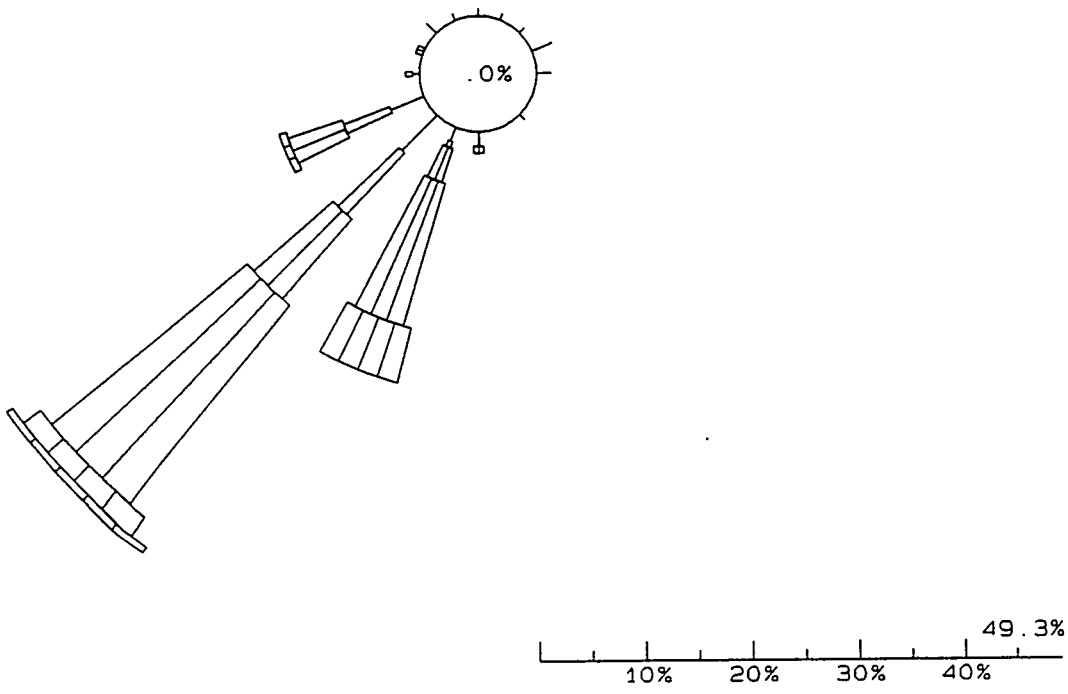
WIND SPEED CLASSES (MPS)

CALM	0			WS	<=	5
1		5<	WS	<=	1	8
2		1 8<	WS	<=	3	3
3		3 3<	WS	<=	5	4
4		5 4<	WS	<=	8	5
5		8 5<	WS	<=	10	8
6		10 8<	WS			

96 9% DATA RECOVERED
OF WHICH 20 8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
6/ 1/1994 - 6/30/1994
1600 - 2000



WIND SPEED CLASSES (MPS)

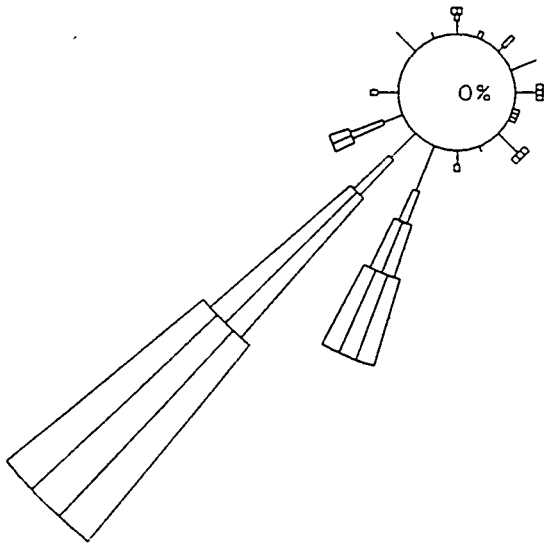
CALM	0	WS <= 5
1	1	5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	0	3.3< WS <= 5 4
4	0	5.4< WS <= 8.5
5	0	8.5< WS <=10.8
6	0	10.8< WS

100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
7/ 1/1994 - 7/31/1994
1600 - 2000

N



49 0%

10% 20% 30% 40%

WIND SPEED CLASSES (MPS)

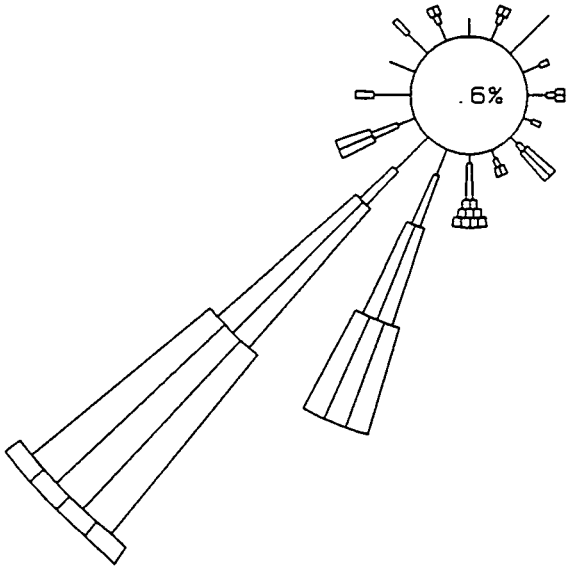
CALM	0			WS	<=	5
1		5<	WS	<=	1	8
2		1 8<	WS	<=	3	3
3		3 3<	WS	<=	5	4
4		5 4<	WS	<=	8	3
5		8 5<	WS	<=	10	8
6		10 8<	WS			

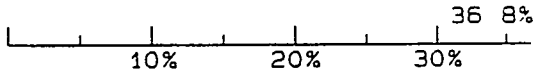
100 0% DATA RECOVERED
OF WHICH 20 8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
8/ 1/1994 - 8/31/1994
1600 - 2000

N





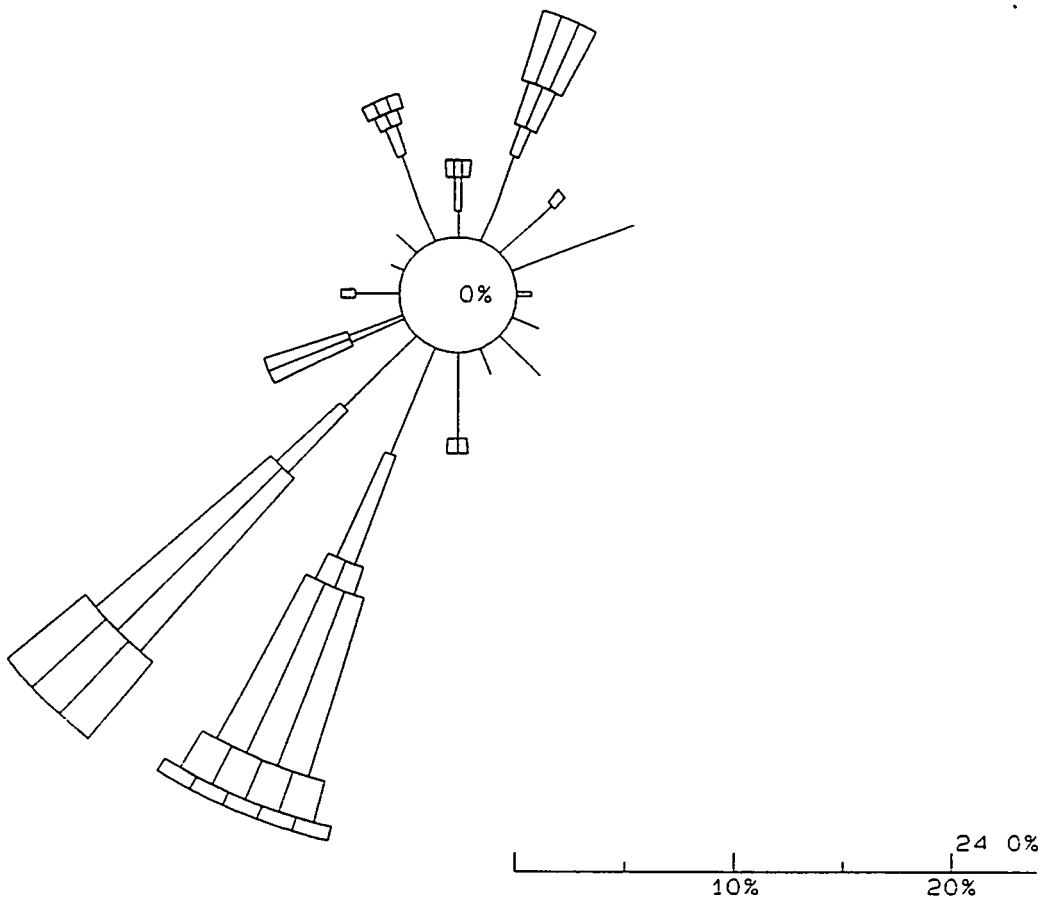
WIND SPEED CLASSES (MPS)

CALM	0		WS <= 5
1	I	.5<	WS <= 1.8
2	O	1.8<	WS <= 3.3
3	□	3.3<	WS <= 5.4
4	□□	5.4<	WS <= 8.5
5	□□□	8.5<	WS <=10.8
6	□□□□	10.8<	WS

100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
9/ 1/1994 - 9/30/1994
1600 - 2000



WIND SPEED CLASSES (MPS)

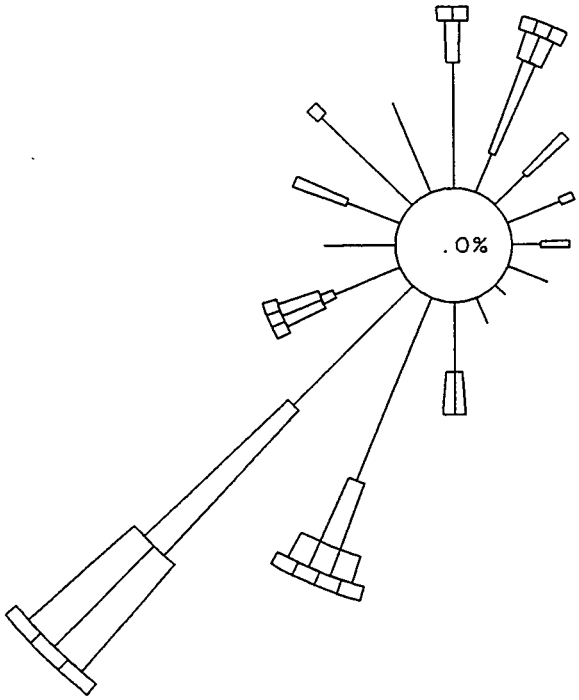
CALM	0			WS	<=	5
1		5<	WS	<=	1	8
2		1.8<	WS	<=	3	3
3		3	3< WS	<=	5	4
4		5	4< WS	<=	8	5
5		8	5< WS	<=	10	8
6		10	8< WS			

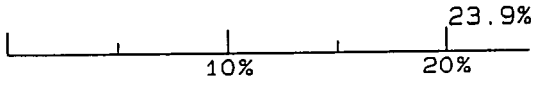
99.7% DATA RECOVERED
OF WHICH 20 9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
10/ 1/1994 - 10/31/1994
1600 - 2000

N





WIND SPEED CLASSES (MPS)

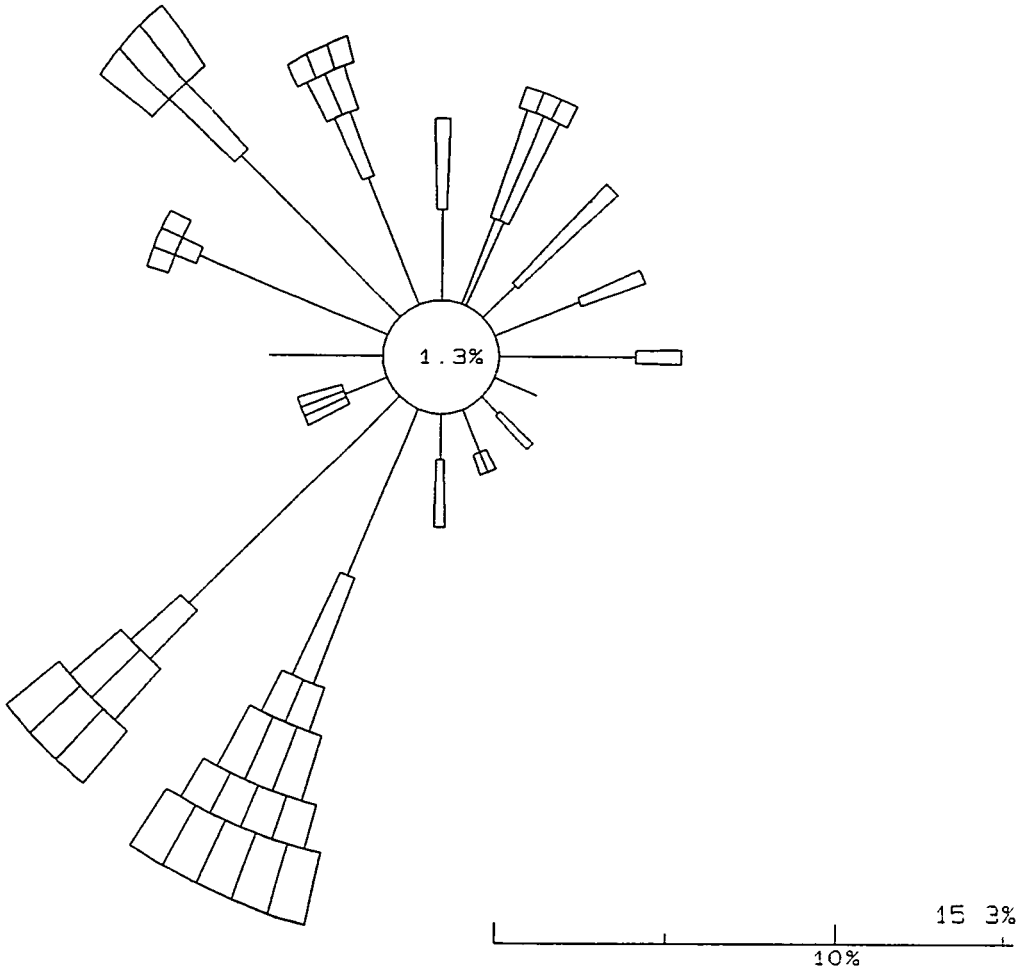
CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
11/ 1/1994 - 11/30/1994
1600 - 2000

N



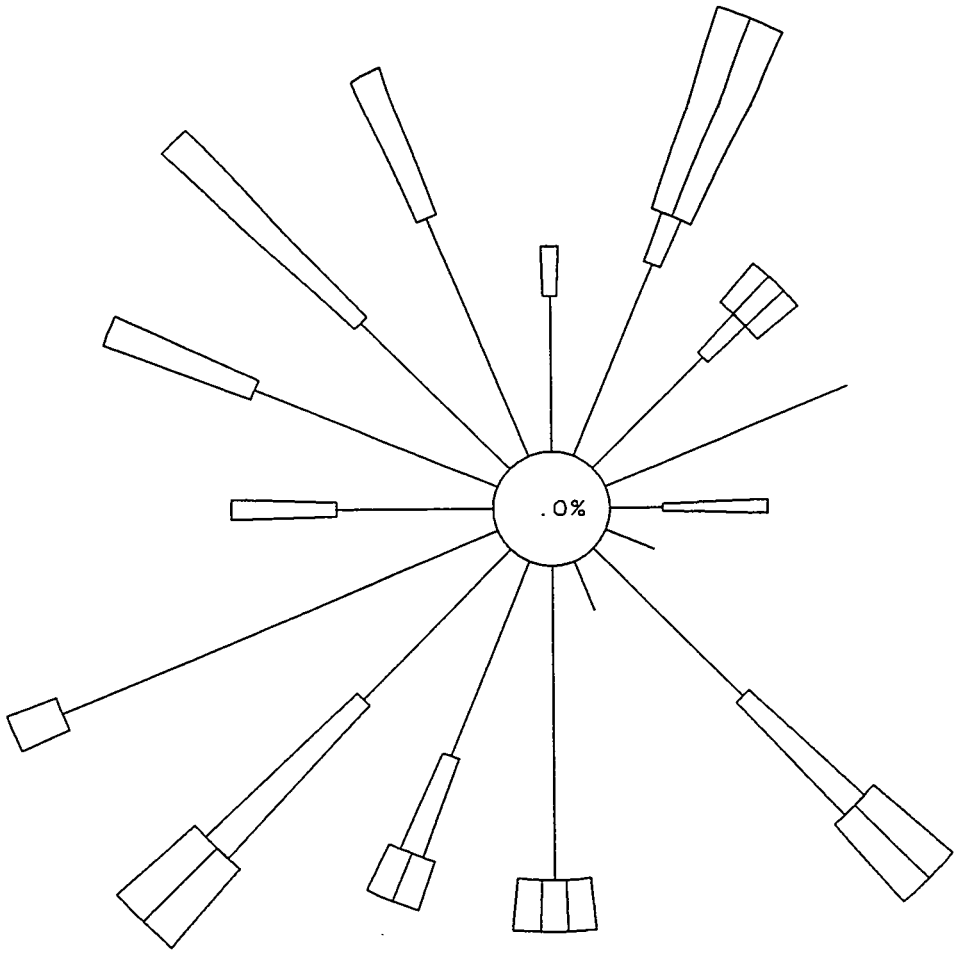
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5 4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 20 8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
12/ 1/1994 - 12/31/1994
1600 - 2000



WIND SPEED CLASSES (MPS)

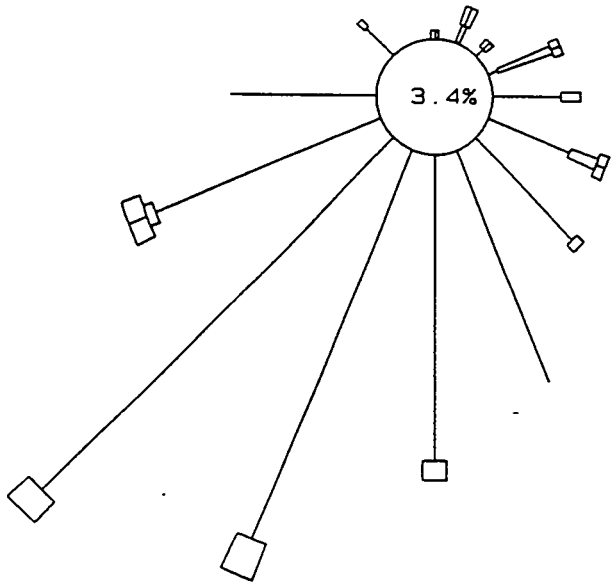
CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

65.1% DATA RECOVERED
OF WHICH 20.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
1/ 1/1994 - 1/31/1994
2000 - 600

N



10%

WIND SPEED CLASSES (MPS)

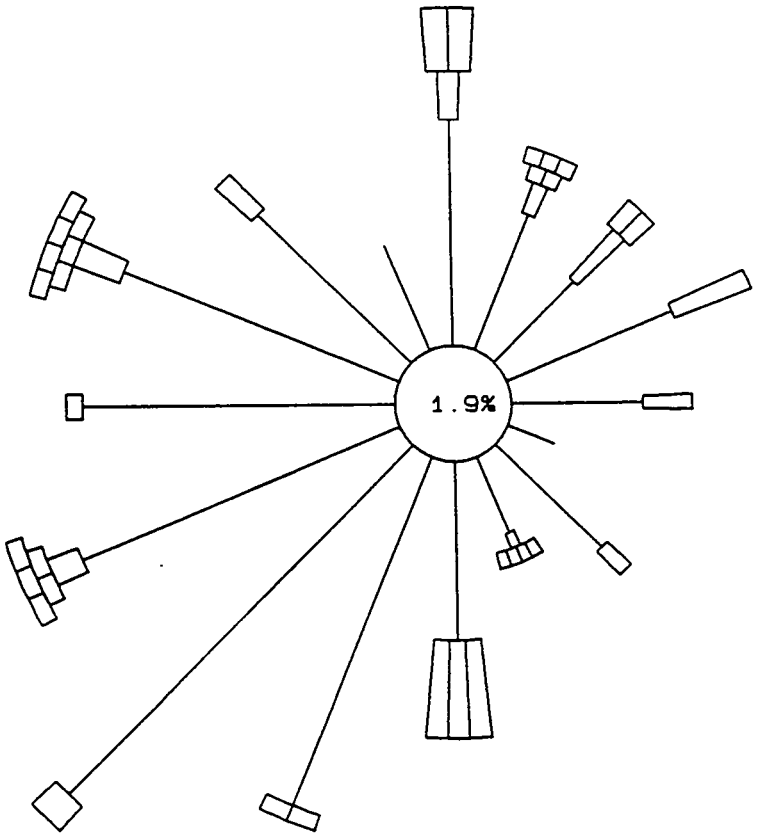
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

78.0% DATA RECOVERED
OF WHICH 46.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
2/ 1/1994 - 2/28/1994
2000 - 600

N



12.1%
10%

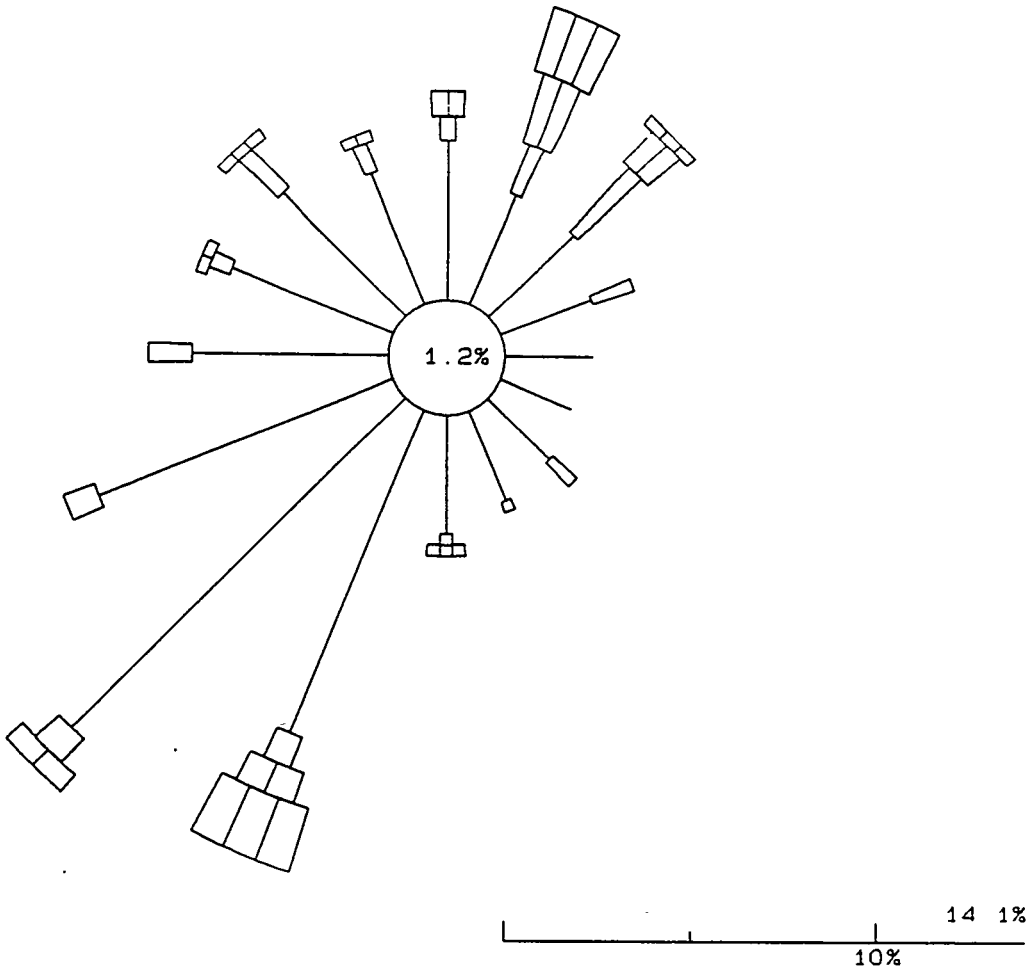
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

85.4% DATA RECOVERED
OF WHICH 46.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
3/ 1/1994 - 3/31/1994
2000 - 600



WIND SPEED CLASSES (MPS)

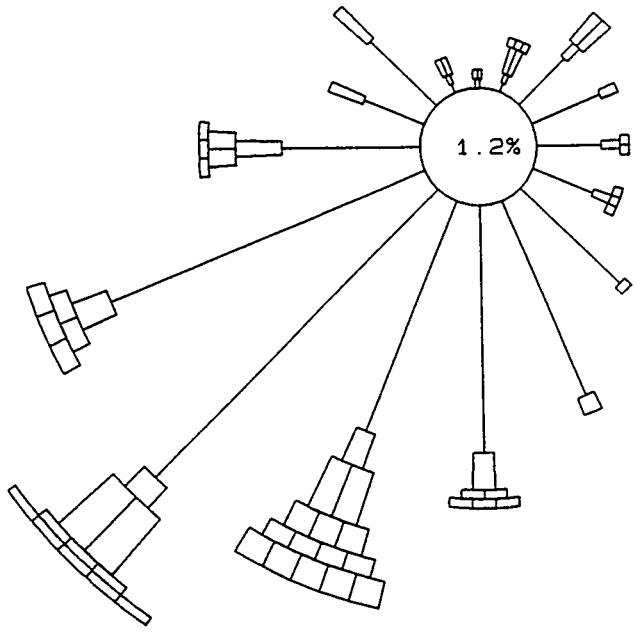
CALM	o	WS <= .5
1	!	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 45.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
4/ 1/1994 - 4/30/1994
2000 - 600

N



17 3%

10%

WIND SPEED CLASSES (MPS)

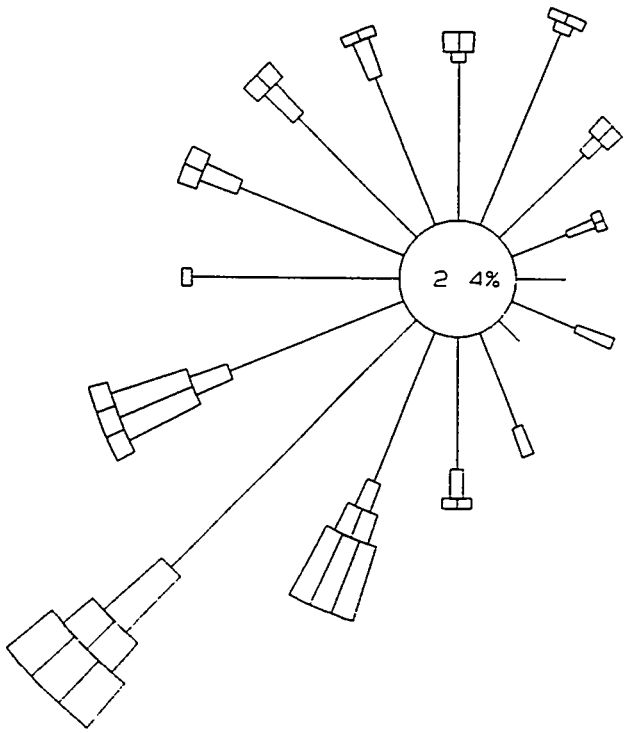
CALM	o	WS <= .5
1	ı	5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8 5< WS <=10.8
6	□□□□□	10.8< WS

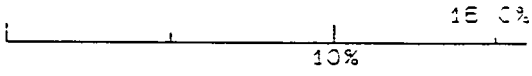
99.4% DATA RECOVERED
OF WHICH 46.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
5/ 1/1994 - 5/31/1994
2000 - 600

N





WIND SPEED CLASSES (MPS)

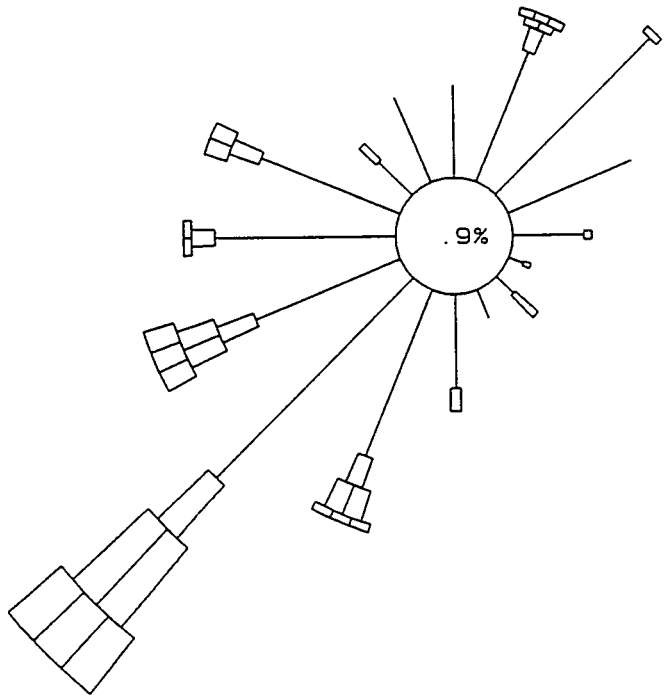
CALM	0		WS <=	5	
1		5<	WS <=	1 8	
2		1 8<	WS <=	3 3	
3		3 3<	WS <=	5 4	
4		5 4<	WS <=	8 5	
5		8 5<	WS <=	10 8	
6		10 8<	WS		

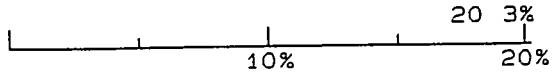
96 9% DATA RECOVERED
OF WHICH 45 9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
6/ 1/1994 - 6/30/1994
2000 - 600

N





WIND SPEED CLASSES (MPS)

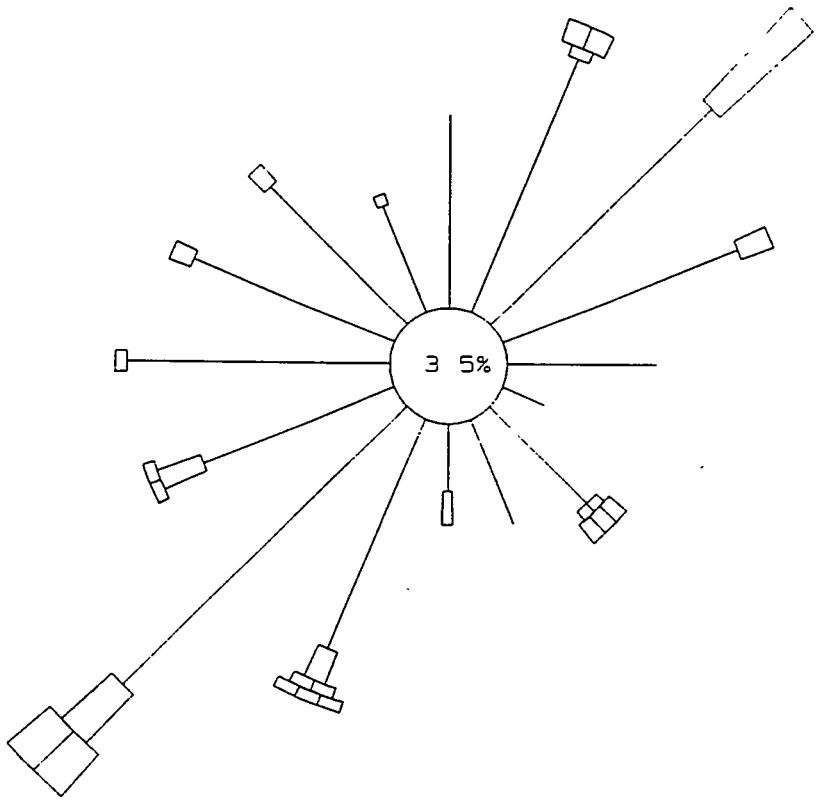
CALM	0	WS <= .5
1	1	.5< WS <= 1 8
2	0	1.8< WS <= 3.3
3	00	3.3< WS <= 5.4
4	000	5 4< WS <= 8.5
5	0000	8.5< WS <=10.8
6	00000	10.8< WS

100.0% DATA RECOVERED
OF WHICH 45.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
7/ 1/1994 - 7/31/1994
2000 - 600

N



13 5%
10%

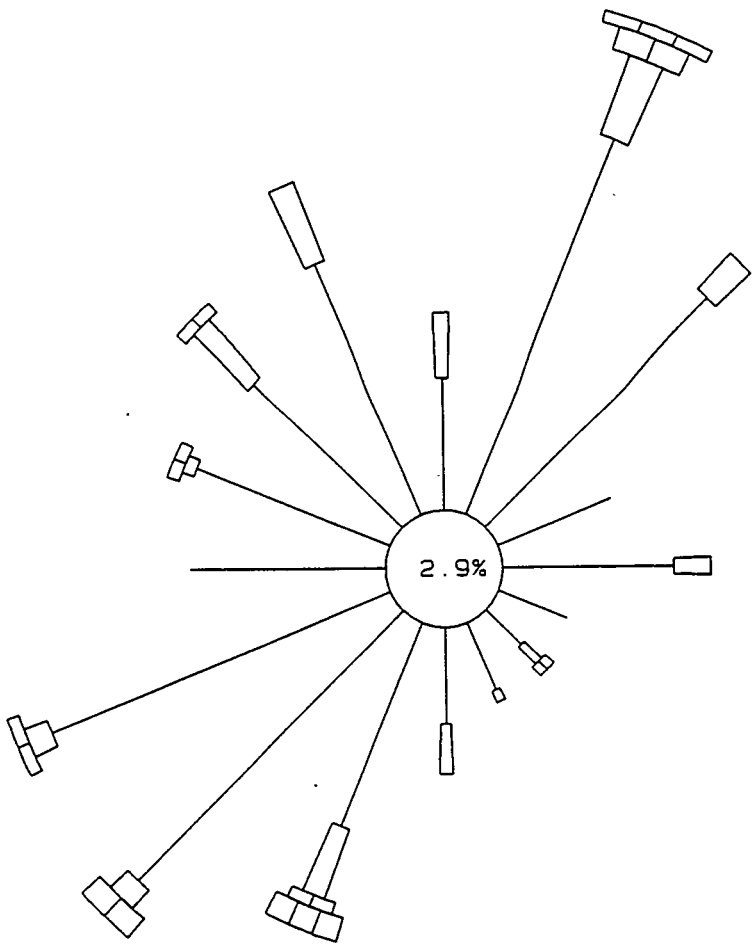
WIND SPEED CLASSES (MPS)

CALM	0		WS <= .5
1	.	.5<	WS <= 1.8
2	□	1.8<	WS <= 3.3
3	⊡	3.3<	WS <= 5.4
4	▭	5.4<	WS <= 8.5
5	▭▭	8.5<	WS <=10.8
6	▭▭▭	10.8<	WS

100.0% DATA RECOVERED
OF WHICH 45.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
8/ 1/1994 - 8/31/1994
2000 - 600



WIND SPEED CLASSES (MPS)

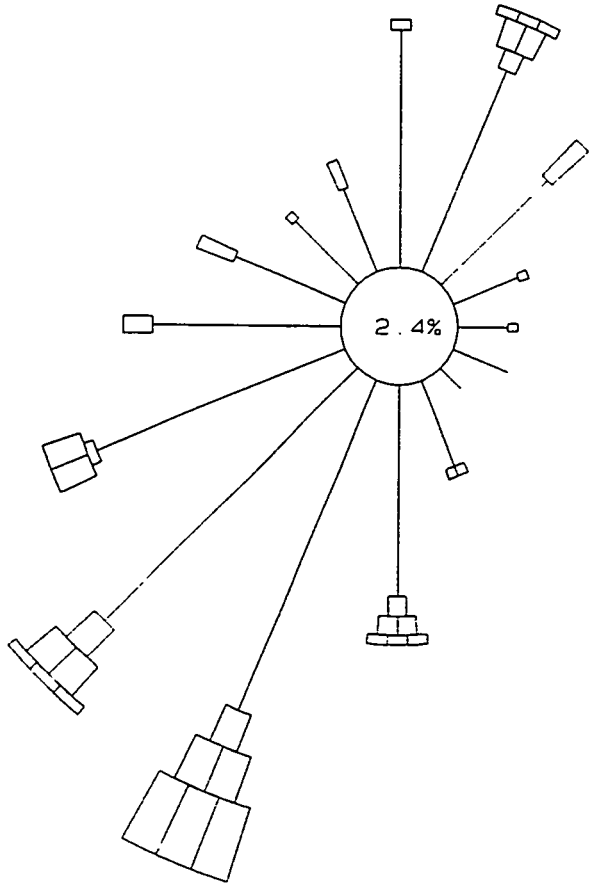
CALM	0		WS <= .5
1		.5<	WS <= 1.8
2		1.8<	WS <= 3.3
3		3.3<	WS <= 5.4
4		5.4<	WS <= 8.5
5		8.5<	WS <=10.8
6		10.8<	WS

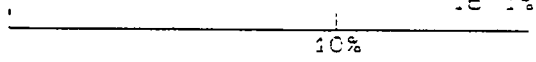
100.0% DATA RECOVERED
OF WHICH 45.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
9/ 1/1994 - 9/30/1994
2000 - 600

N





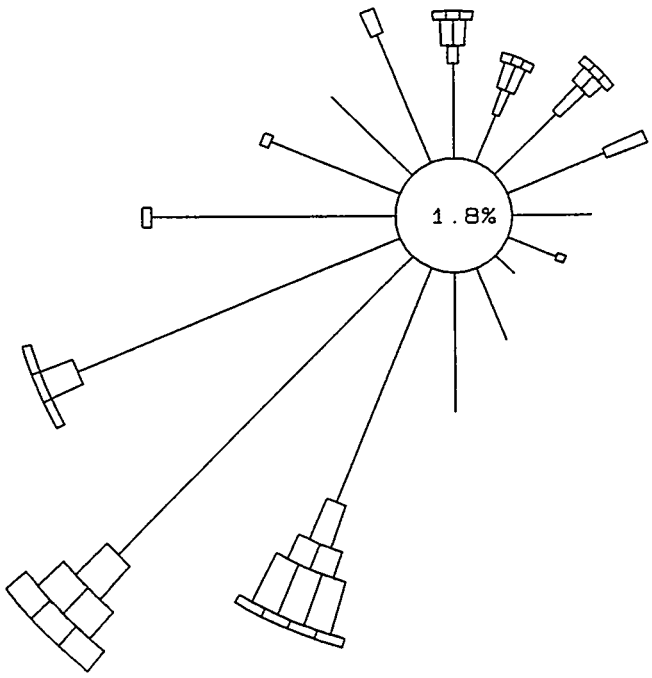
WIND SPEED CLASSES (MPS)

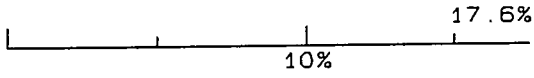
CALM	0			WS	<=	5
1			5<	WS	<=	1 8
2		1	8<	WS	<=	3 3
3		3	3<	WS	<=	5 4
4		5	4<	WS	<=	8 5
5		8	5<	WS	<=	10 8
6		10	8<	WS		

99 7% DATA RECOVERED
OF WHICH 46 0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
10/ 1/1994 - 10/31/1994
2000 - 600





WIND SPEED CLASSES (MPS)

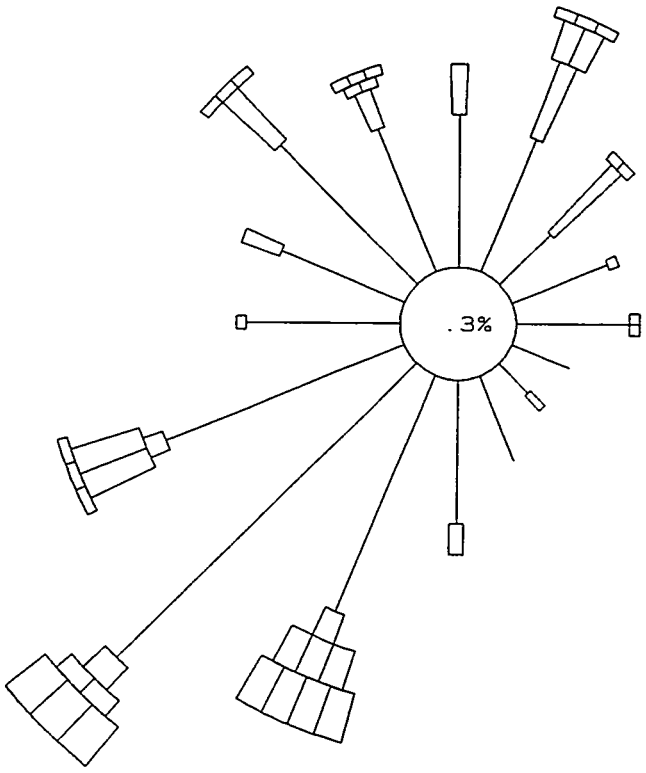
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 45.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
11/ 1/1994 - 11/30/1994
2000 - 600

N



15 5%
10%

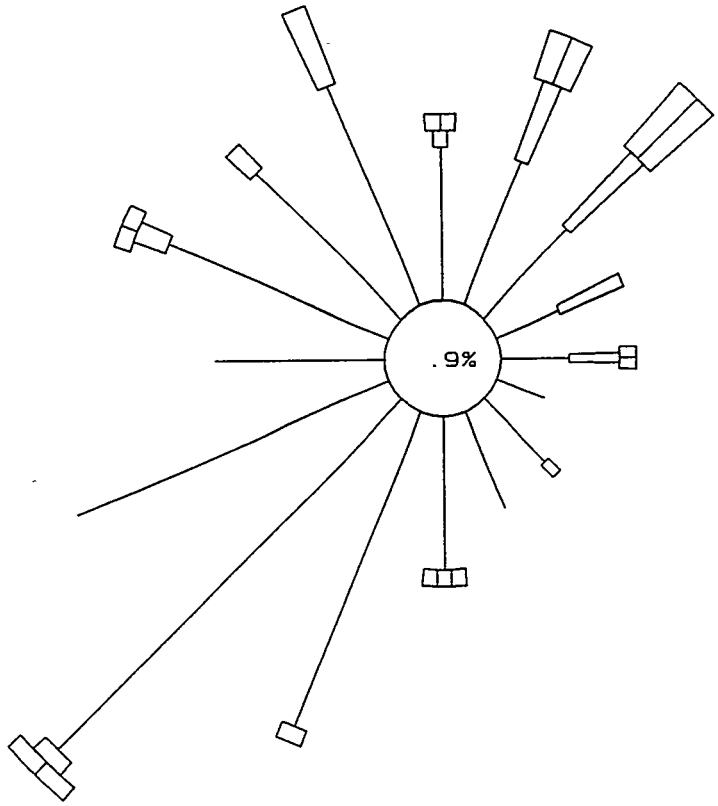
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1 8
2	◻	1.8< WS <= 3.3
3	◻◻	3.3< WS <= 5 4
4	◻◻◻	5.4< WS <= 8.5
5	◻◻◻◻	8.5< WS <=10 8
6	◻◻◻◻	10.8< WS

100.0% DATA RECOVERED
OF WHICH 45.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
12/ 1/1994 - 12/31/1994
2000 - 600



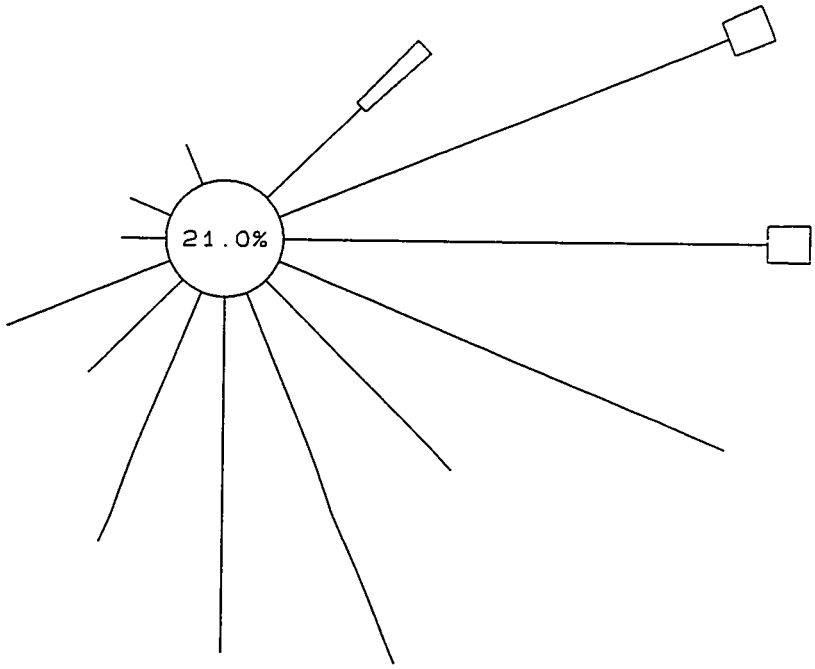
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

65.1% DATA RECOVERED
OF WHICH 45.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
1/ 1/1994 - 1/31/1994
0 - 2300

N

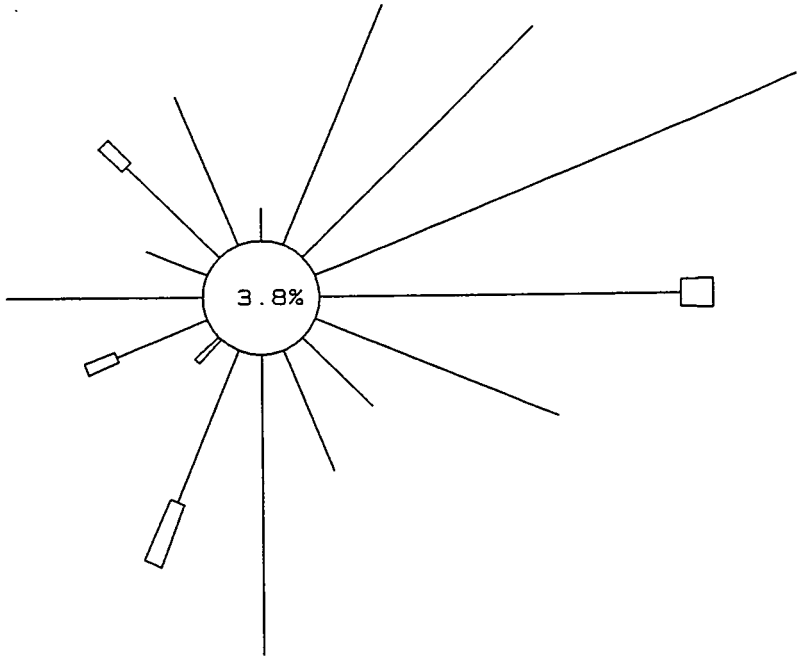


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	◻	1.8< WS <= 3.3
3	◻◻	3.3< WS <= 5.4
4	◻◻◻	5.4< WS <= 8.5
5	◻◻◻◻	8.5< WS <=10.8
6	◻◻◻◻◻	10.8< WS

78.0% DATA RECOVERED
OF WHICH 17.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
2/ 1/1994 - 2/28/1994
0 - 2300

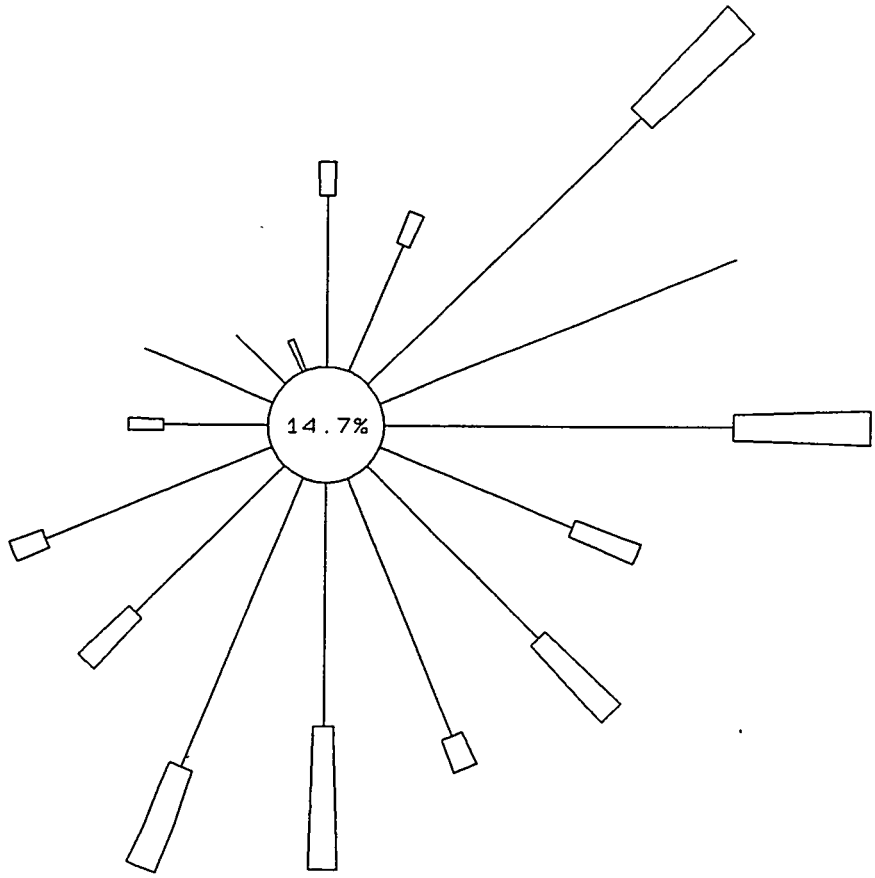


WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	00	3.3< WS <= 5.4
4	000	5.4< WS <= 8.5
5	0000	8.5< WS <=10.8
6	00000	10.8< WS

85.4% DATA RECOVERED
OF WHICH 18.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
3/ 1/1994 - 3/31/1994
0 - 2300



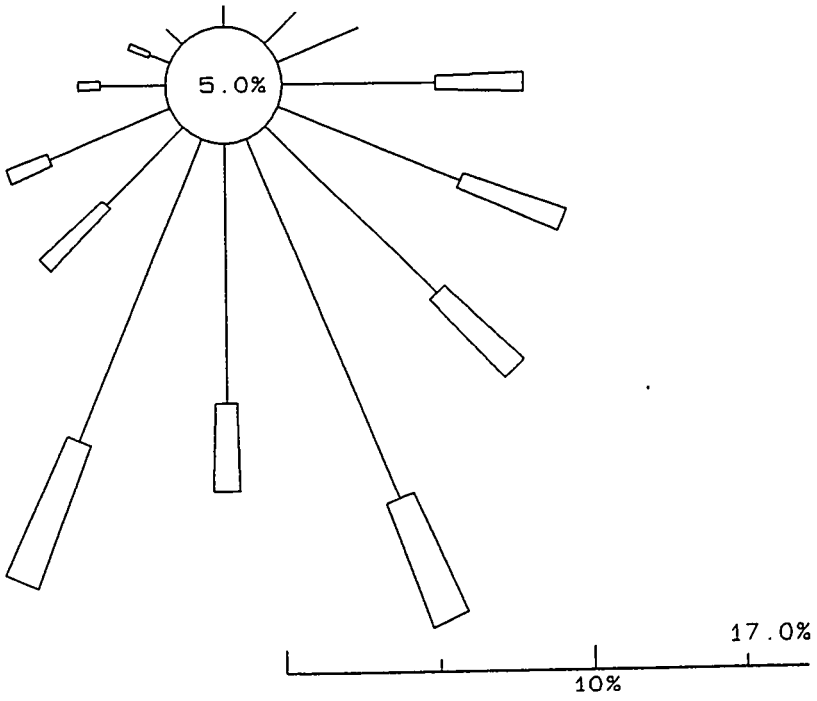
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 20.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
4/ 1/1994 - 4/30/1994
0 - 2300

N

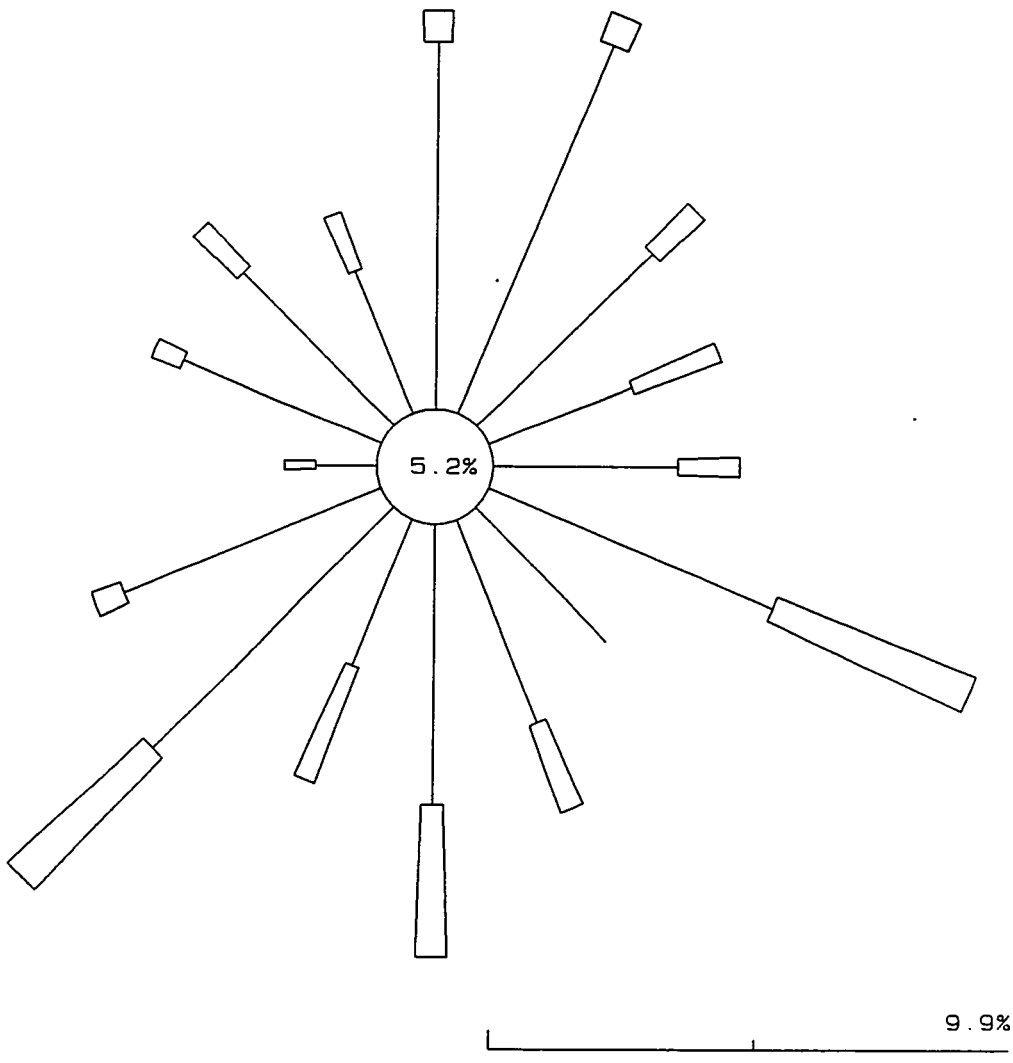


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.4% DATA RECOVERED
OF WHICH 19.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
5/ 1/1994 - 5/31/1994
0 - 2300



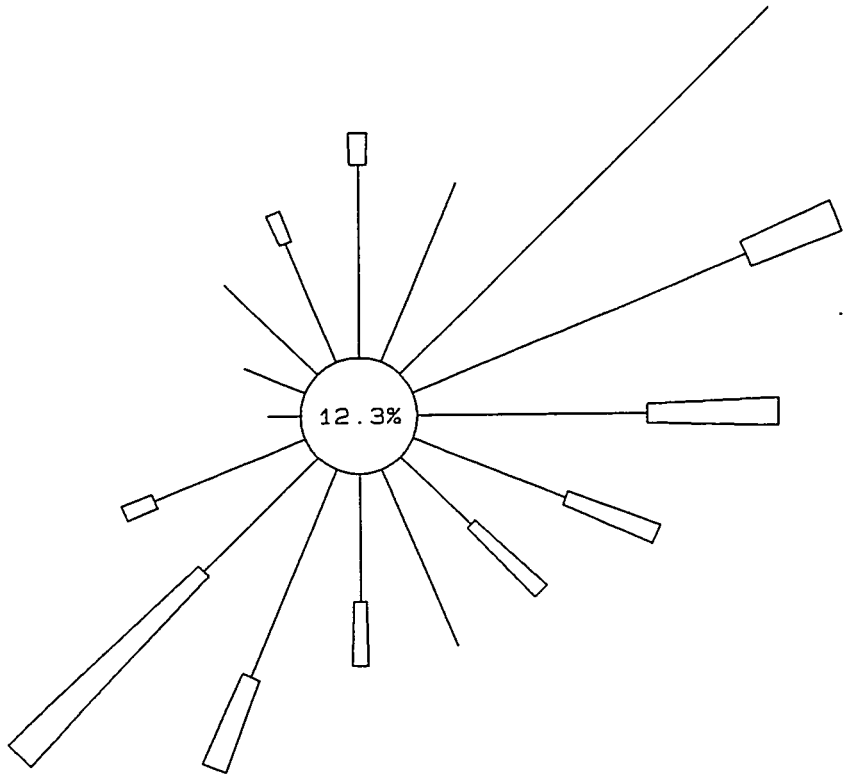
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.9% DATA RECOVERED
OF WHICH 23.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
6/ 1/1994 - 6/30/1994
0 - 2300

N



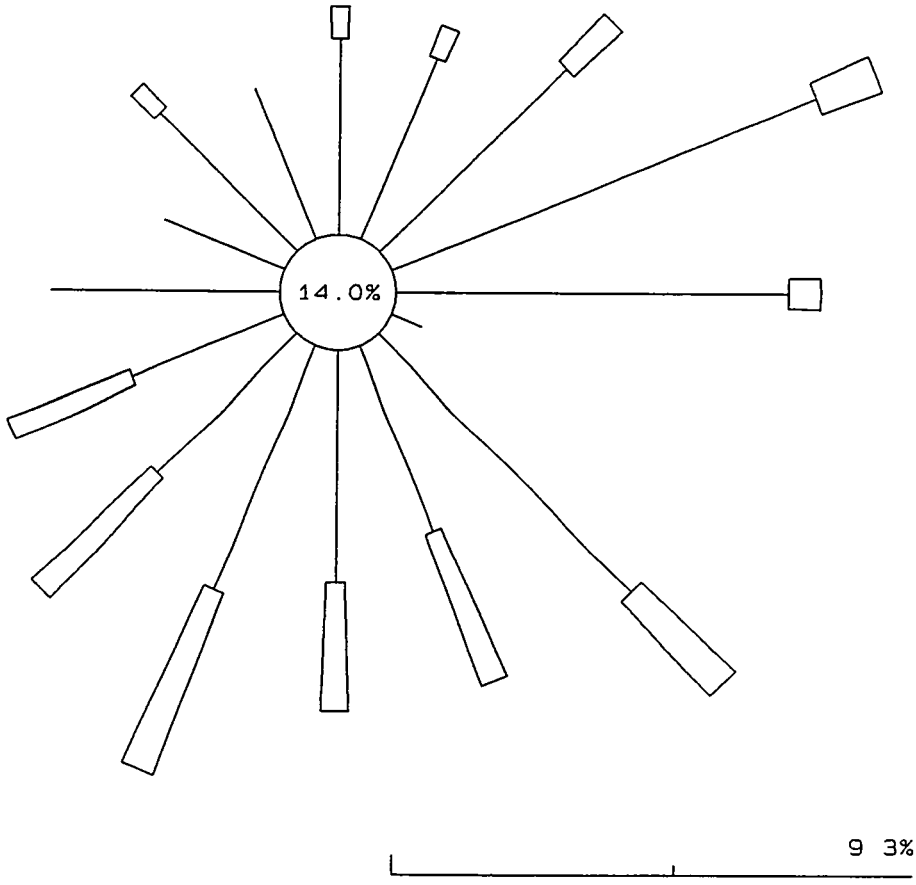
11.6%
10%

WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 19.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
7/ 1/1994 - 7/31/1994
0 - 2300



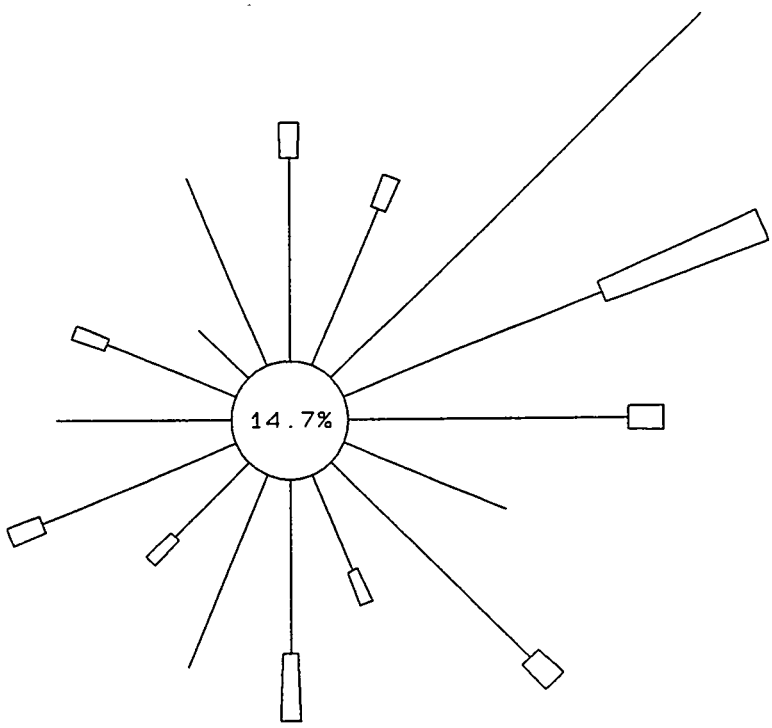
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 23.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
8/ 1/1994 - 8/31/1994
0 - 2300

N



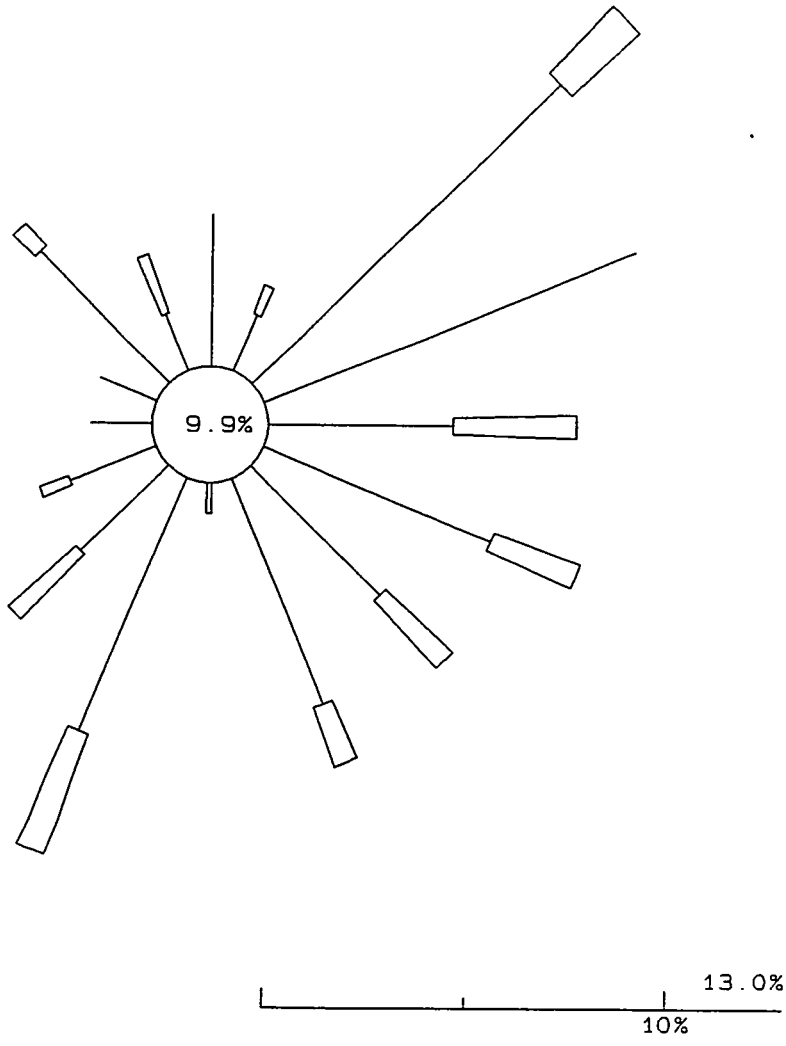
11.6%
10%

WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 17.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
9/ 1/1994 - 9/30/1994
0 - 2300

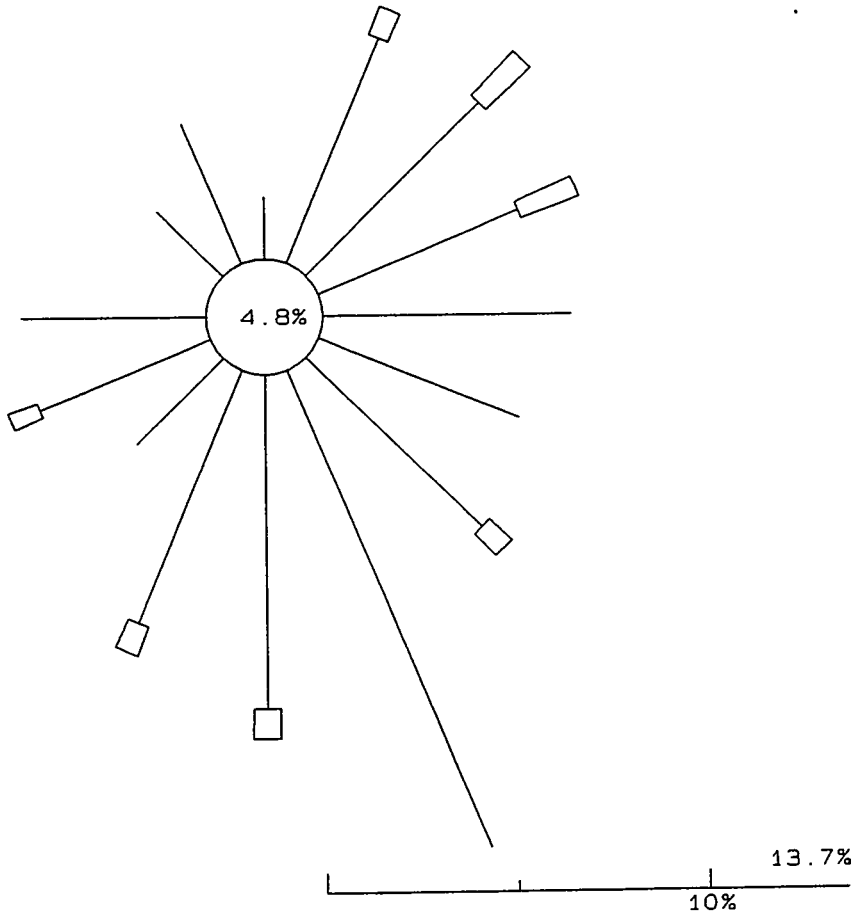


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.7% DATA RECOVERED
OF WHICH 18.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
10/ 1/1994 - 10/31/1994
0 - 2300

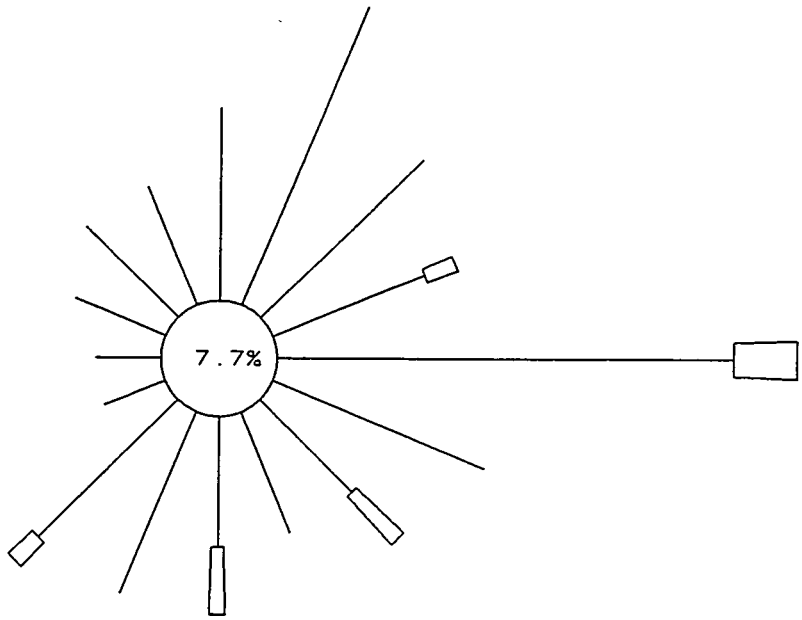


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 16.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
11/ 1/1994 - 11/30/1994
0 - 2300

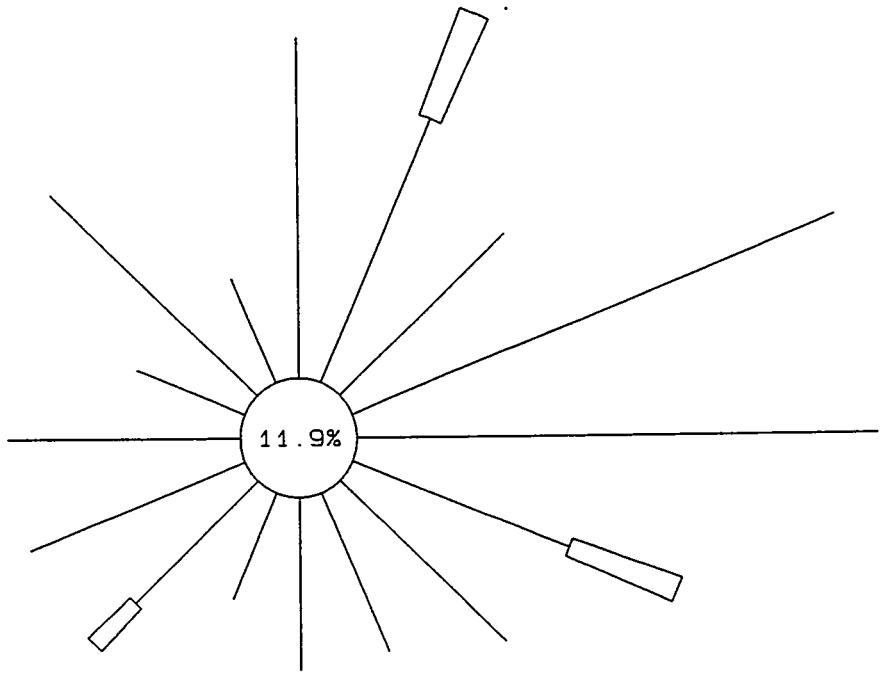


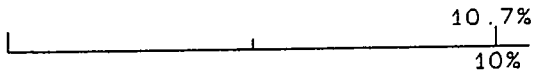
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 14.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
12/ 1/1994 - 12/31/1994
0 - 2300



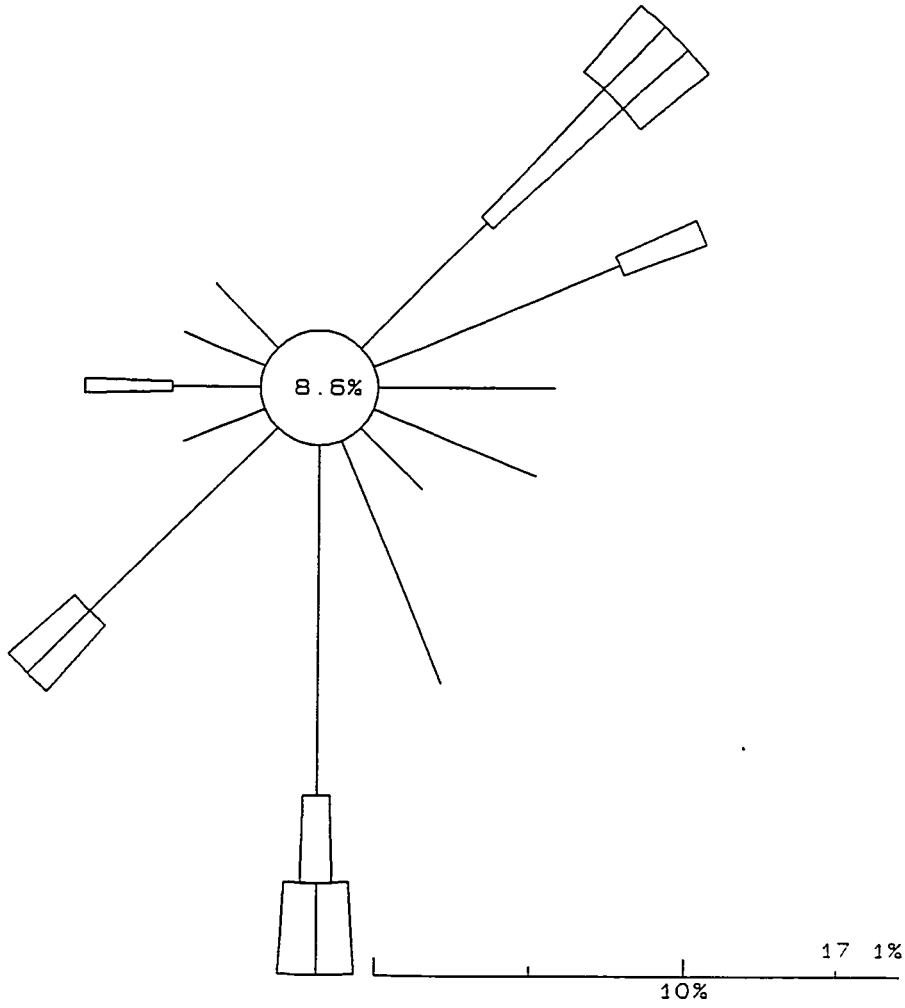


WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	I	.5< WS <= 1.8
2	O	1.8< WS <= 3.3
3	OO	3.3< WS <= 5.4
4	OOO	5.4< WS <= 8.5
5	OOOO	8.5< WS <=10.8
6	OOOOO	10.8< WS

65.1% DATA RECOVERED
OF WHICH 17.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
1/ 1/1994 - 1/31/1994
0 - 2300



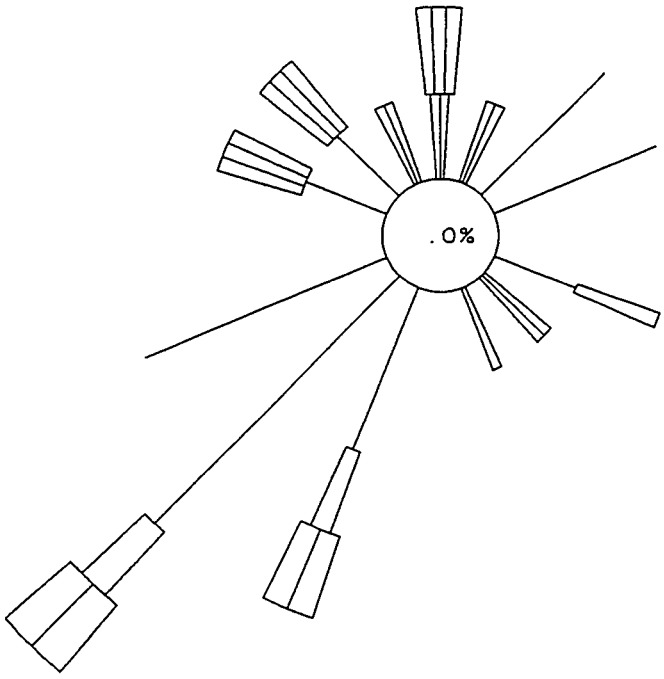
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

78.0% DATA RECOVERED
OF WHICH 6.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
2/ 1/1994 - 2/28/1994
0 - 2300

N



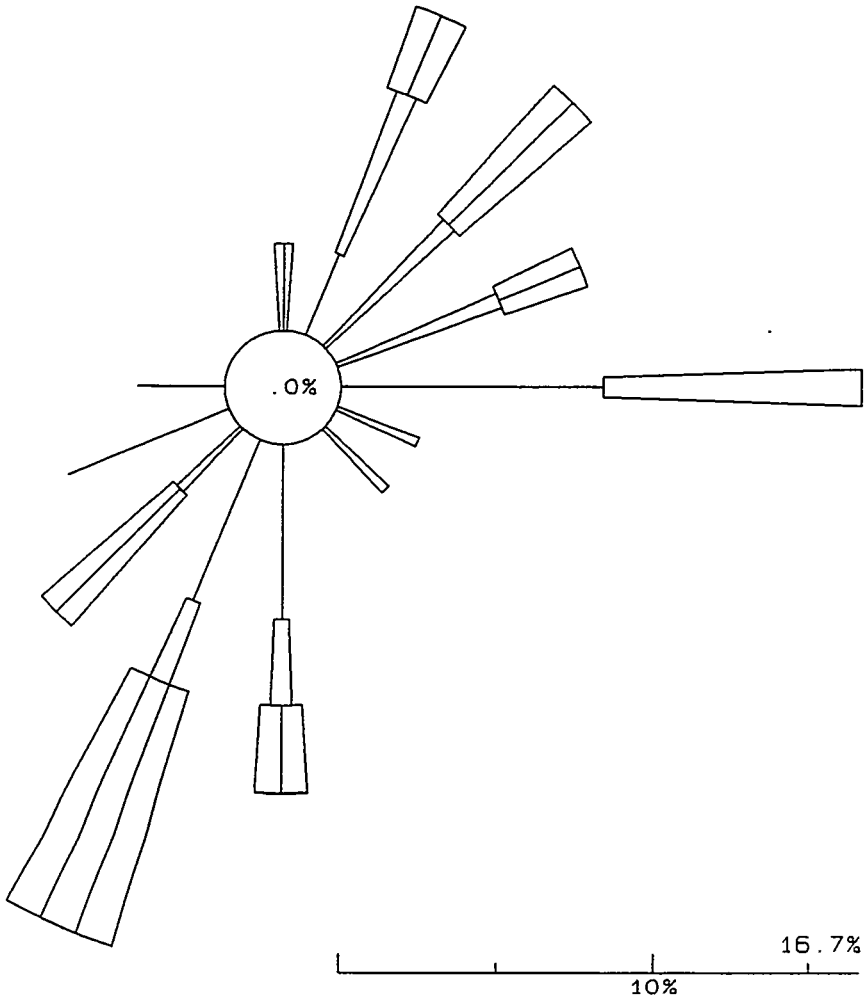
20.7%
10%
20%

WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	◻	1.8< WS <= 3.3
3	◻◻	3.3< WS <= 5.4
4	◻◻◻	5.4< WS <= 8.5
5	◻◻◻◻	8.5< WS <=10.8
6	◻◻◻◻◻	10.8< WS

85.4% DATA RECOVERED
OF WHICH 5.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
3/ 1/1994 - 3/31/1994
0 - 2300



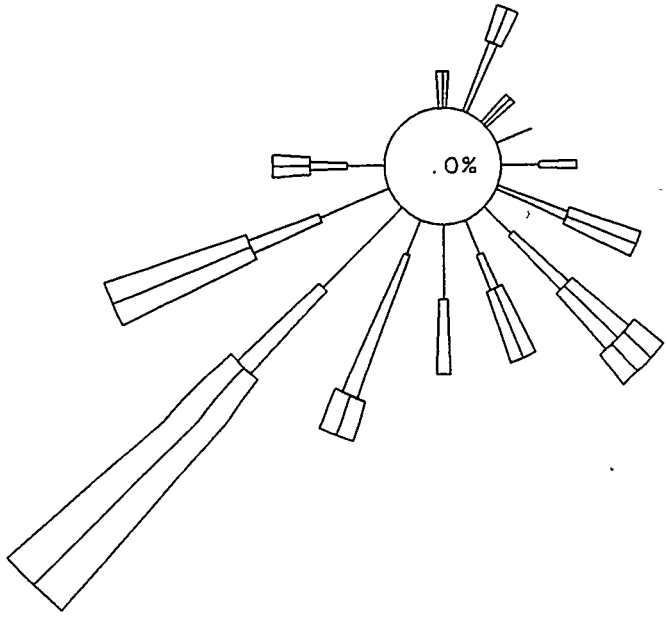
WIND SPEED CLASSES (MPS)

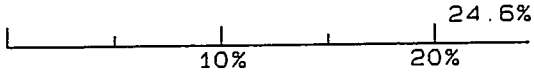
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 4.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
4/ 1/1994 - 4/30/1994
0 - 2300

N





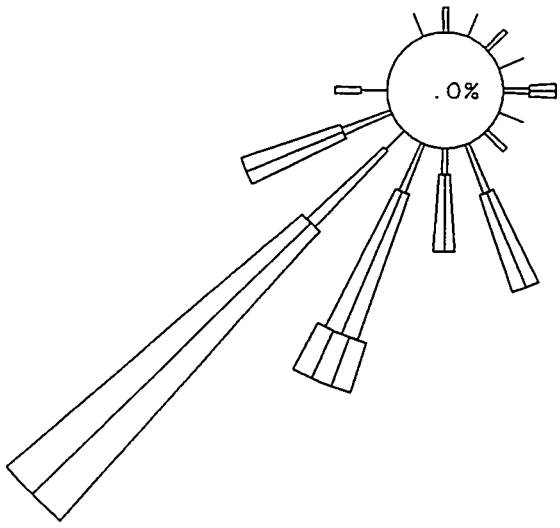
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	0	3.3< WS <= 5.4
4	0	5.4< WS <= 8.5
5	0	8.5< WS <=10.8
6	0	10.8< WS

99.4% DATA RECOVERED
OF WHICH 8.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
5/ 1/1994 - 5/31/1994
0 - 2300

N



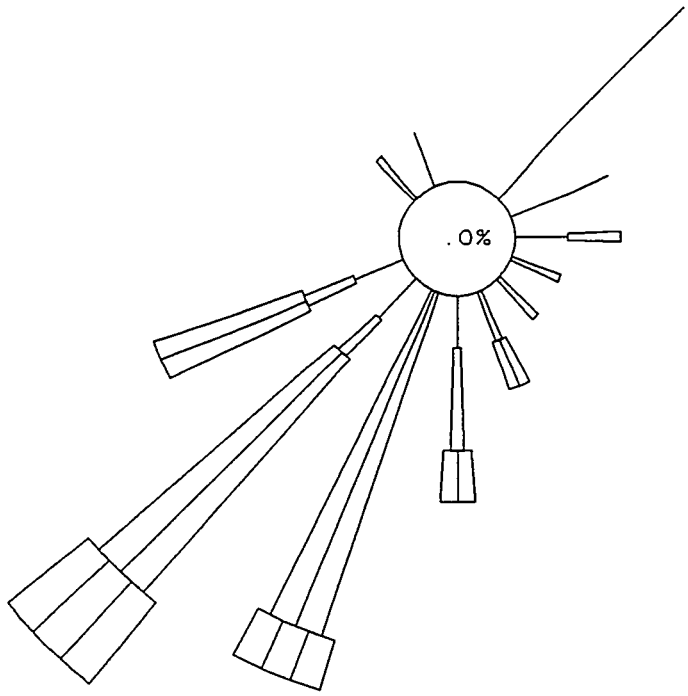
35.1%
10% 20% 30%

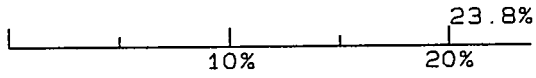
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.9% DATA RECOVERED
OF WHICH 7.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
6/ 1/1994 - 6/30/1994
0 - 2300





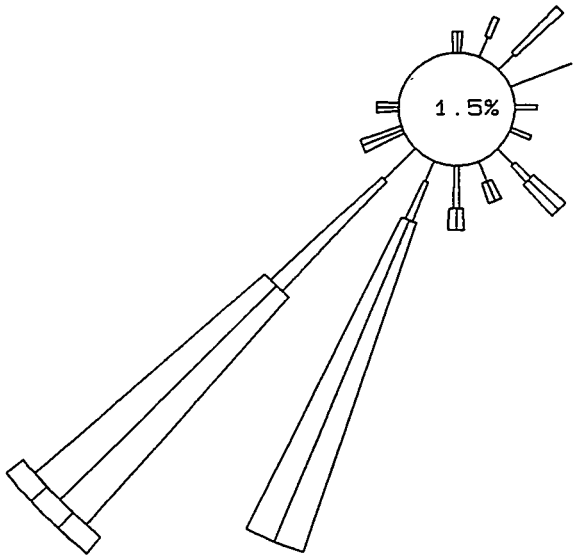
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	0	3.3< WS <= 5.4
4	0	5.4< WS <= 8.5
5	0	8.5< WS <=10.8
6	0	10.8< WS

100.0% DATA RECOVERED
OF WHICH 5.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
7/ 1/1994 - 7/31/1994
0 - 2300

N



35.3%
10% 20% 30%

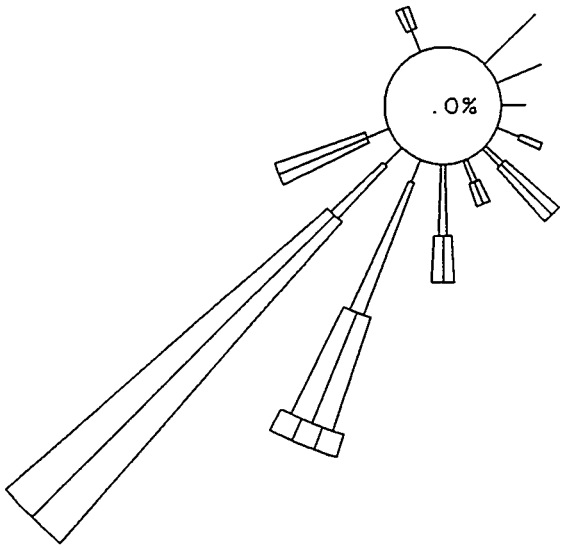
WIND SPEED CLASSES (MPS)

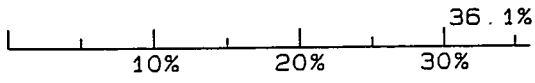
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 9.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
8/ 1/1994 - 8/31/1994
0 - 2300

N



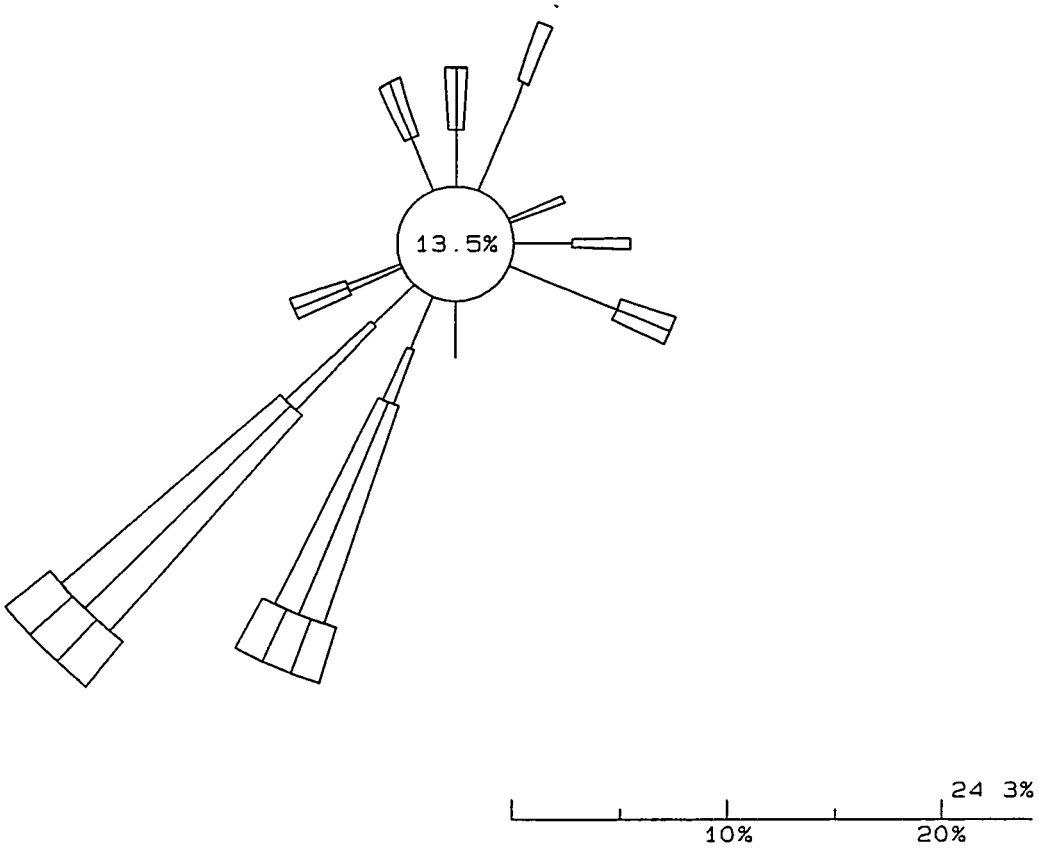


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	⊟	3.3< WS <= 5.4
4	⊞	5.4< WS <= 8.5
5	⊞I	8.5< WS <=10.8
6	⊞⊟	10.8< WS

100.0% DATA RECOVERED
OF WHICH 8.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
9/ 1/1994 - 9/30/1994
0 - 2300

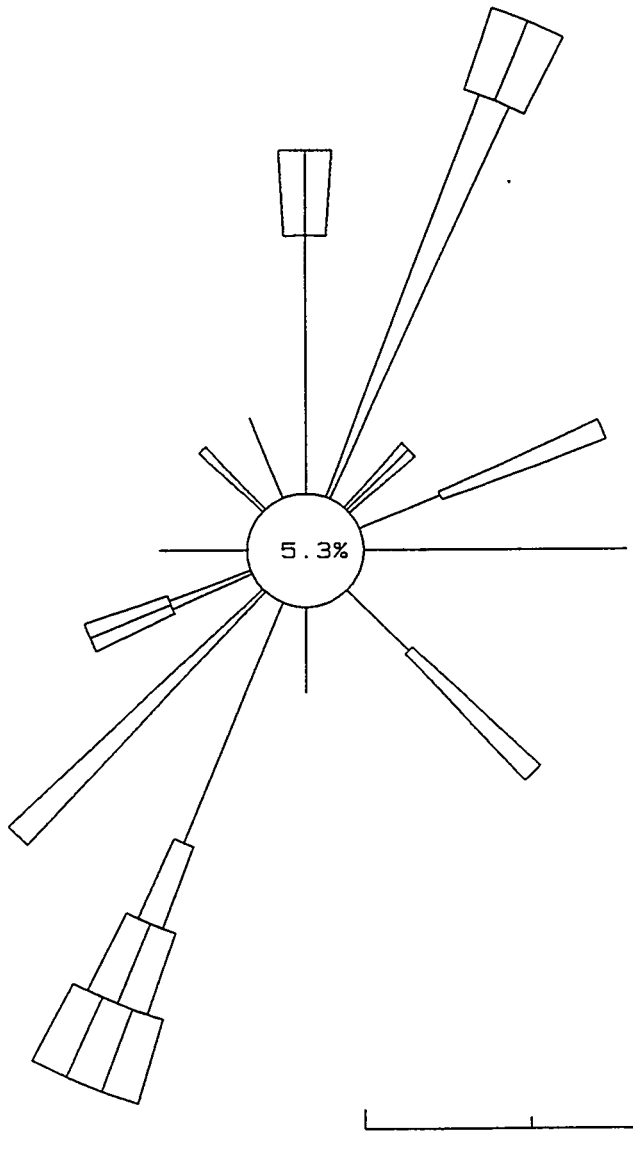


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.7% DATA RECOVERED
OF WHICH 5.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
10/ 1/1994 - 10/31/1994
0 - 2300

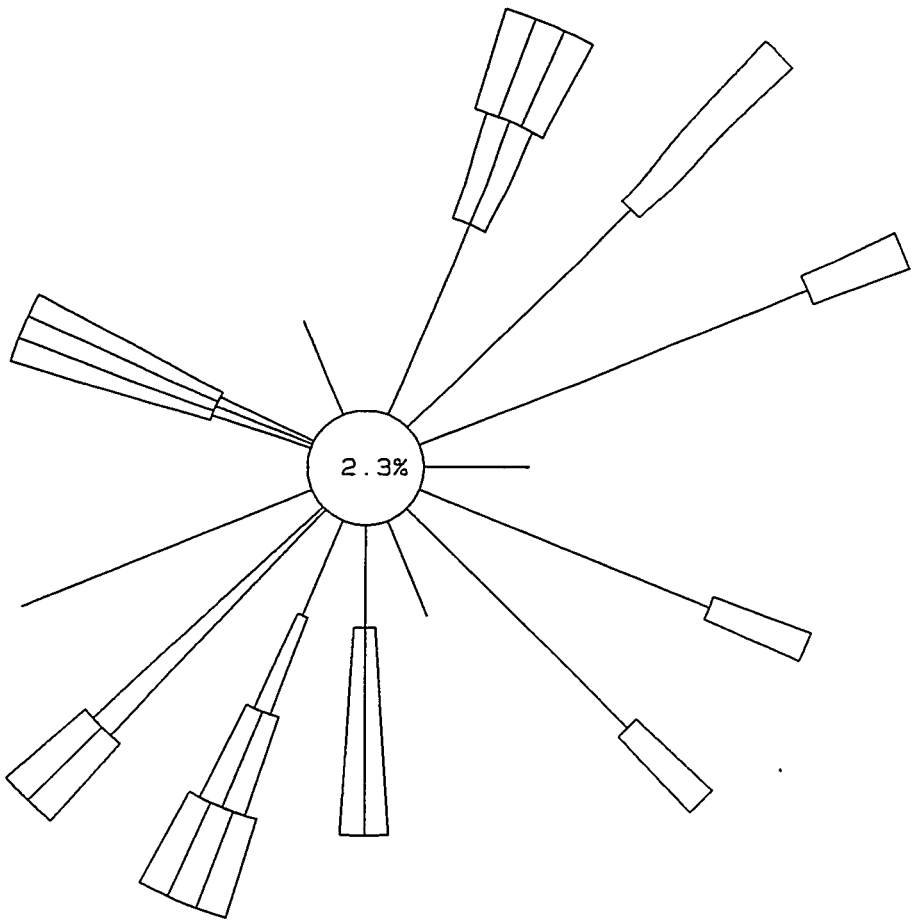


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

100.0% DATA RECOVERED
OF WHICH 5.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
11/ 1/1994 - 11/30/1994
0 - 2300

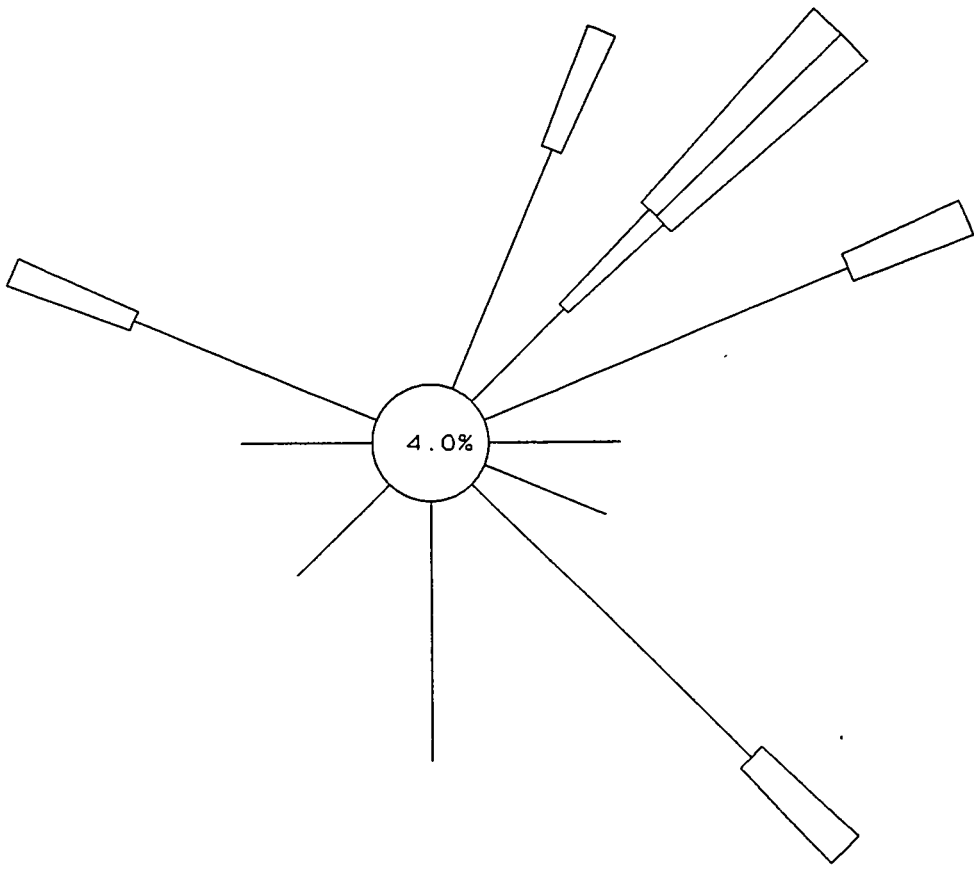


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

100.0% DATA RECOVERED
OF WHICH 6.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
12/ 1/1994 - 12/31/1994
0 - 2300



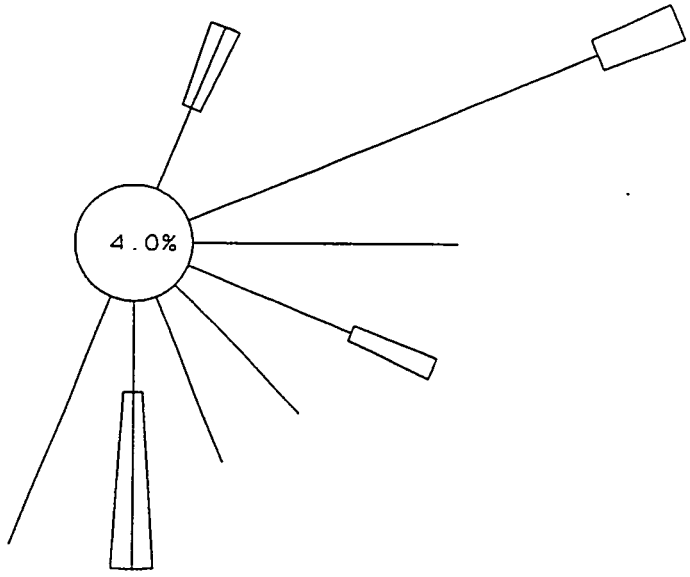
WIND SPEED CLASSES (MPS)

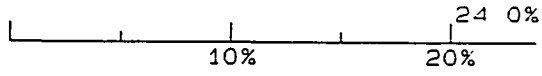
CALM	o	WS <= .5
1	!	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

65.1% DATA RECOVERED
OF WHICH 5.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
1/ 1/1994 - 1/31/1994
0 - 2300

N



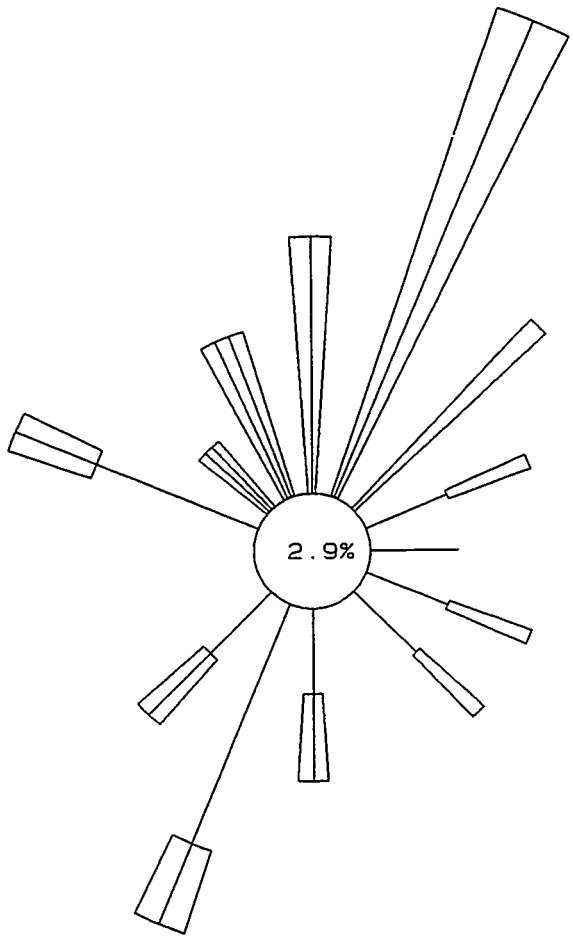


WIND SPEED CLASSES (MPS)

CALM	0	
1	I	WS <= .5
2	□	.5< WS <= 1.8
3	□□	1.8< WS <= 3.3
4	□□□	3.3< WS <= 5.4
5	□□□□	5.4< WS <= 8.5
6	□□□□□	8.5< WS <=10.8
		10.8< WS

78.0% DATA RECOVERED
OF WHICH 4.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
2/ 1/1994 - 2/28/1994
0 - 2300



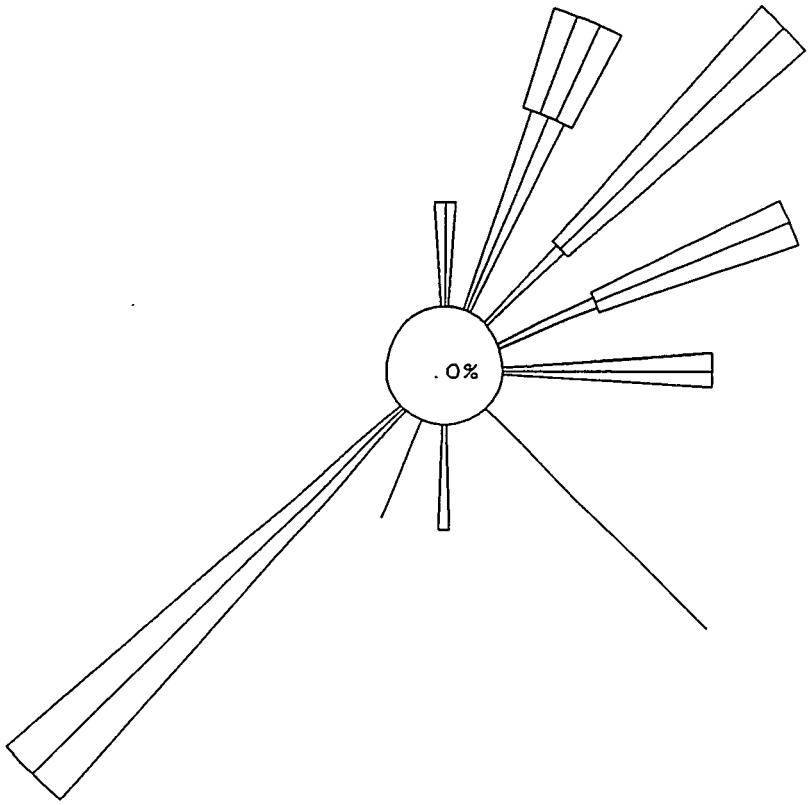
17.6%
10%

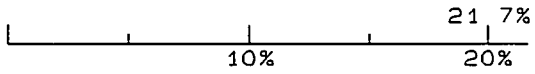
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	⊡	3.3< WS <= 5.4
4	⊡⊡	5.4< WS <= 8.5
5	⊡⊡⊡	8.5< WS <=10.8
6	⊡⊡⊡⊡	10.8< WS

85.4% DATA RECOVERED
OF WHICH 5.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
3/ 1/1994 - 3/31/1994
0 - 2300



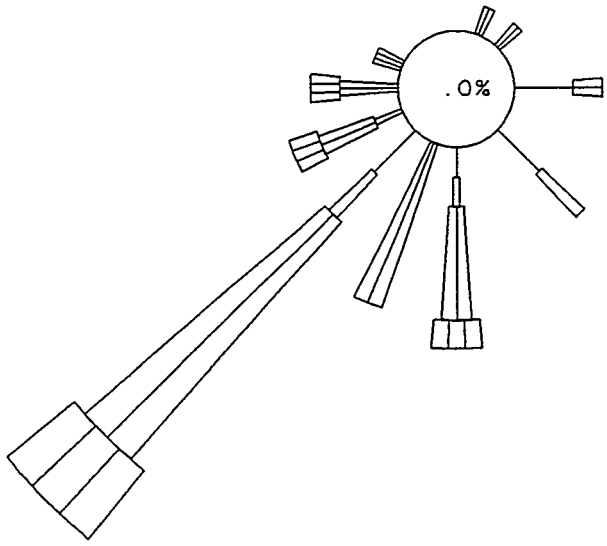


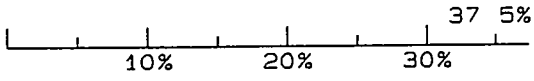
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 3.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
4/ 1/1994 - 4/30/1994
0 - 2300



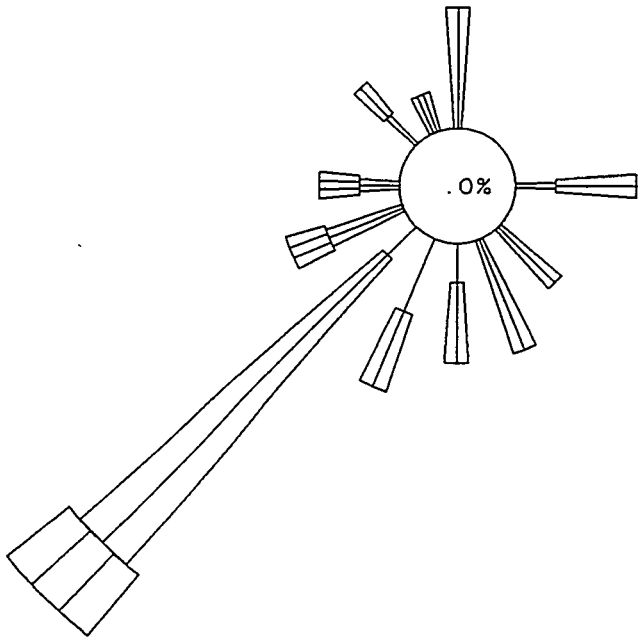


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.4% DATA RECOVERED
OF WHICH 6.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
5/ 1/1994 - 5/31/1994
0 - 2300

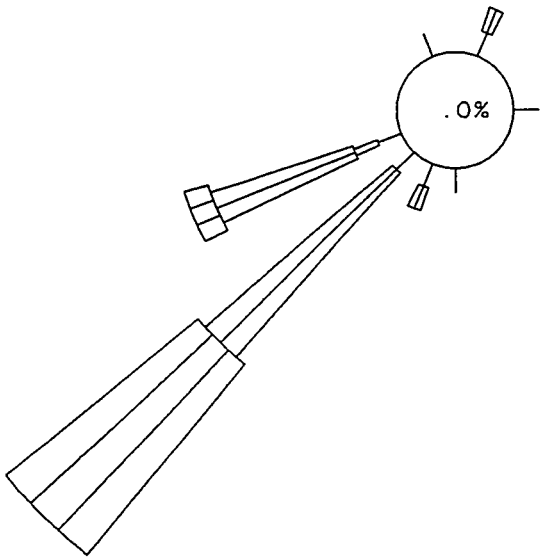


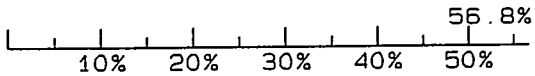
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.9% DATA RECOVERED
OF WHICH 5.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
6/ 1/1994 - 6/30/1994
0 - 2300





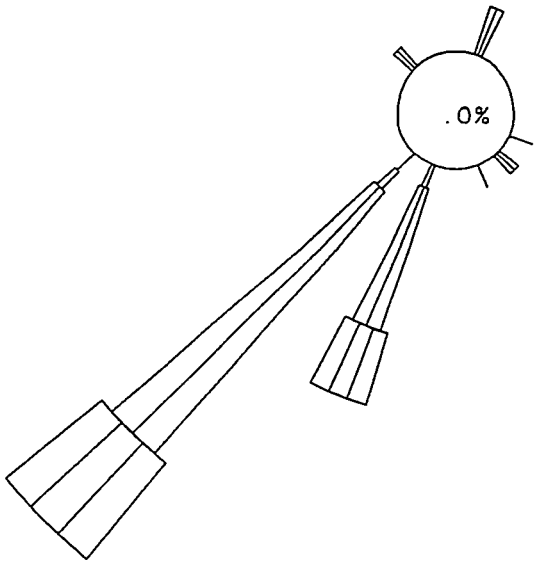
WIND SPEED CLASSES (MPS)

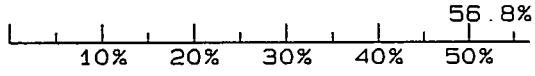
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	⊟	3.3< WS <= 5.4
4	⊟⊟	5.4< WS <= 8.5
5	⊟⊟⊟	8.5< WS <=10.8
6	⊟⊟⊟⊟	10.8< WS

100.0% DATA RECOVERED
OF WHICH 5.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
7/ 1/1994 - 7/31/1994
0 - 2300

N





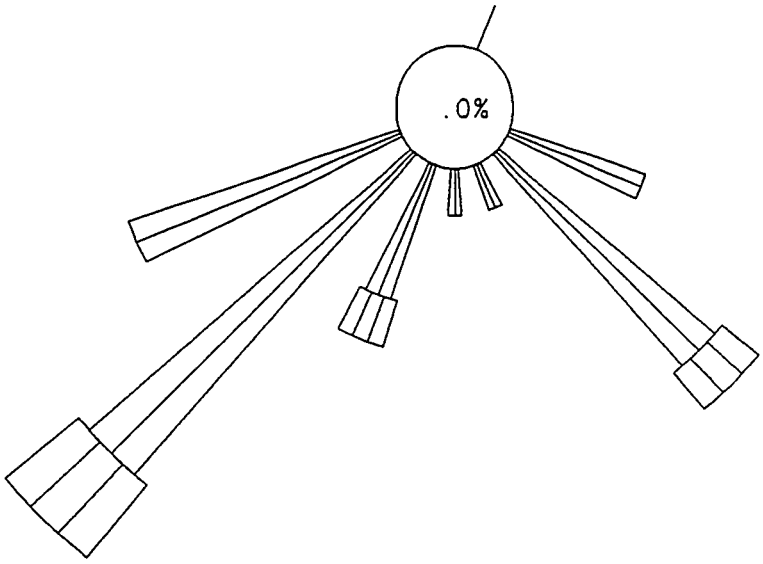
WIND SPEED CLASSES (MPS)

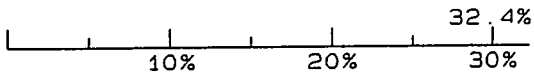
CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

100.0% DATA RECOVERED
OF WHICH 5.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
8/ 1/1994 - 8/31/1994
0 - 2300

N



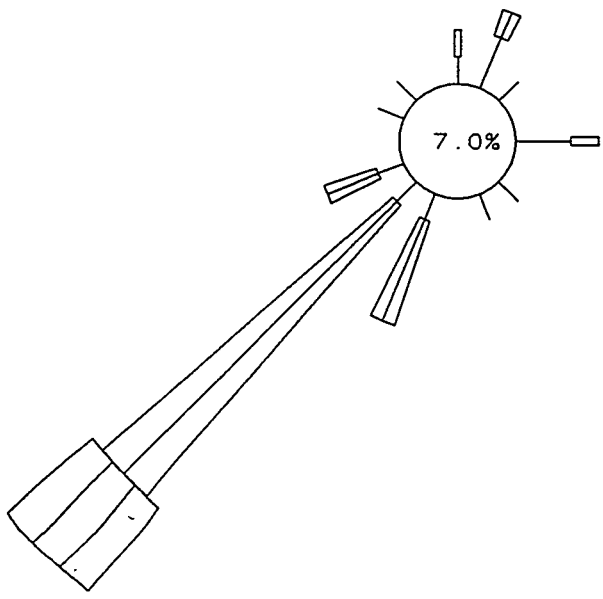


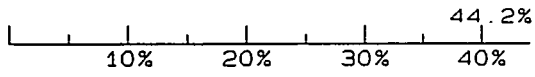
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 4.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
9/ 1/1994 - 9/30/1994
0 - 2300



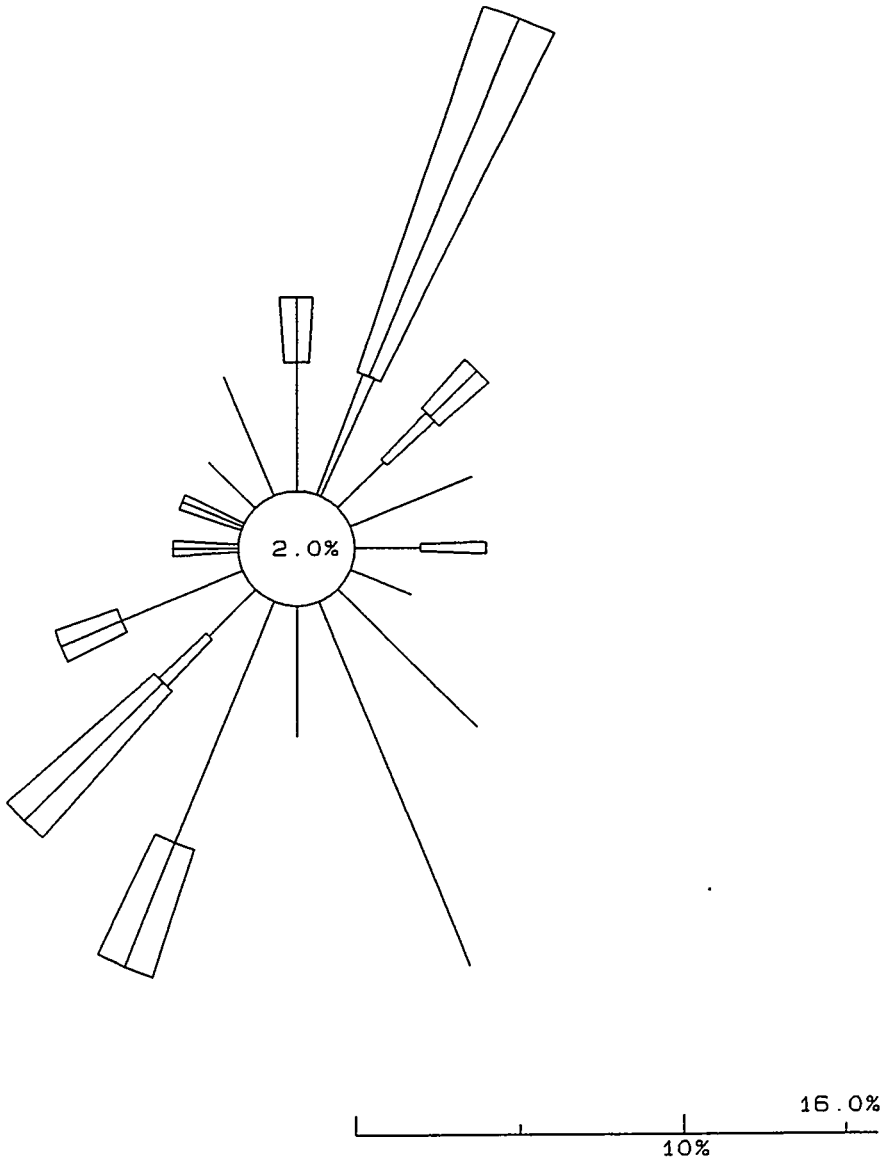


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.7% DATA RECOVERED
OF WHICH 6.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
10/ 1/1994 - 10/31/1994
0 - 2300

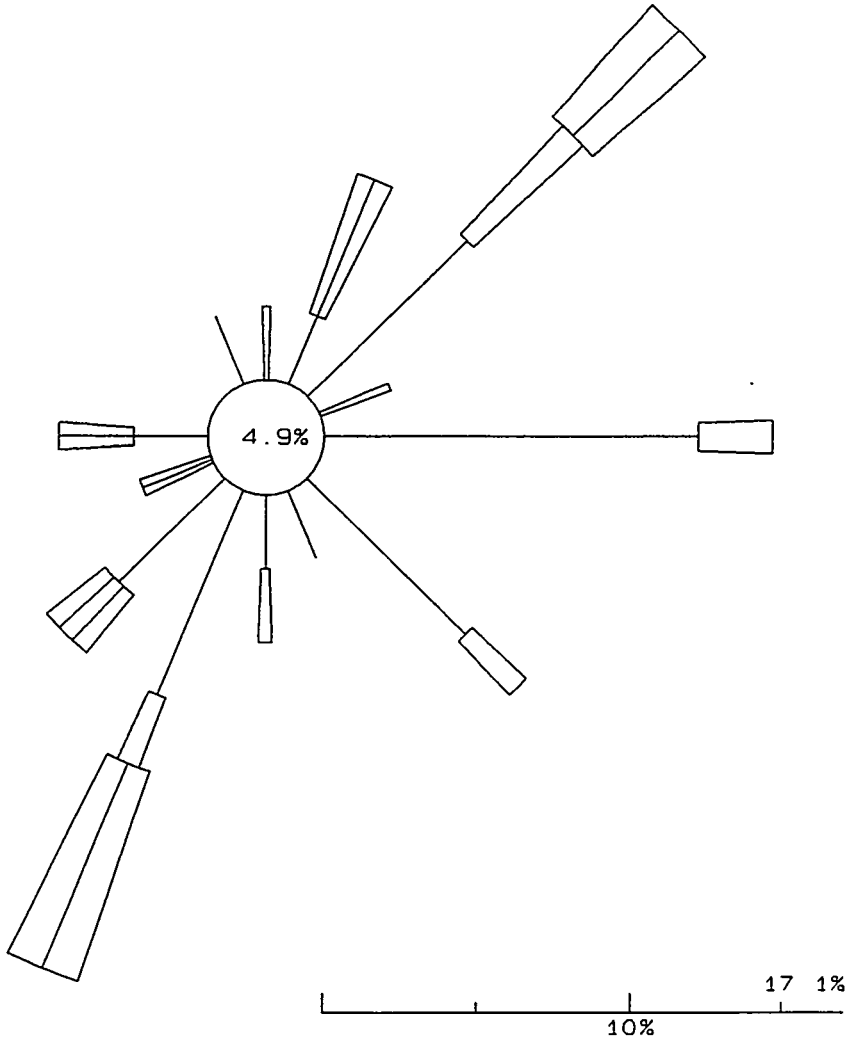


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

100.0% DATA RECOVERED
OF WHICH 6.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
11/ 1/1994 - 11/30/1994
0 - 2300

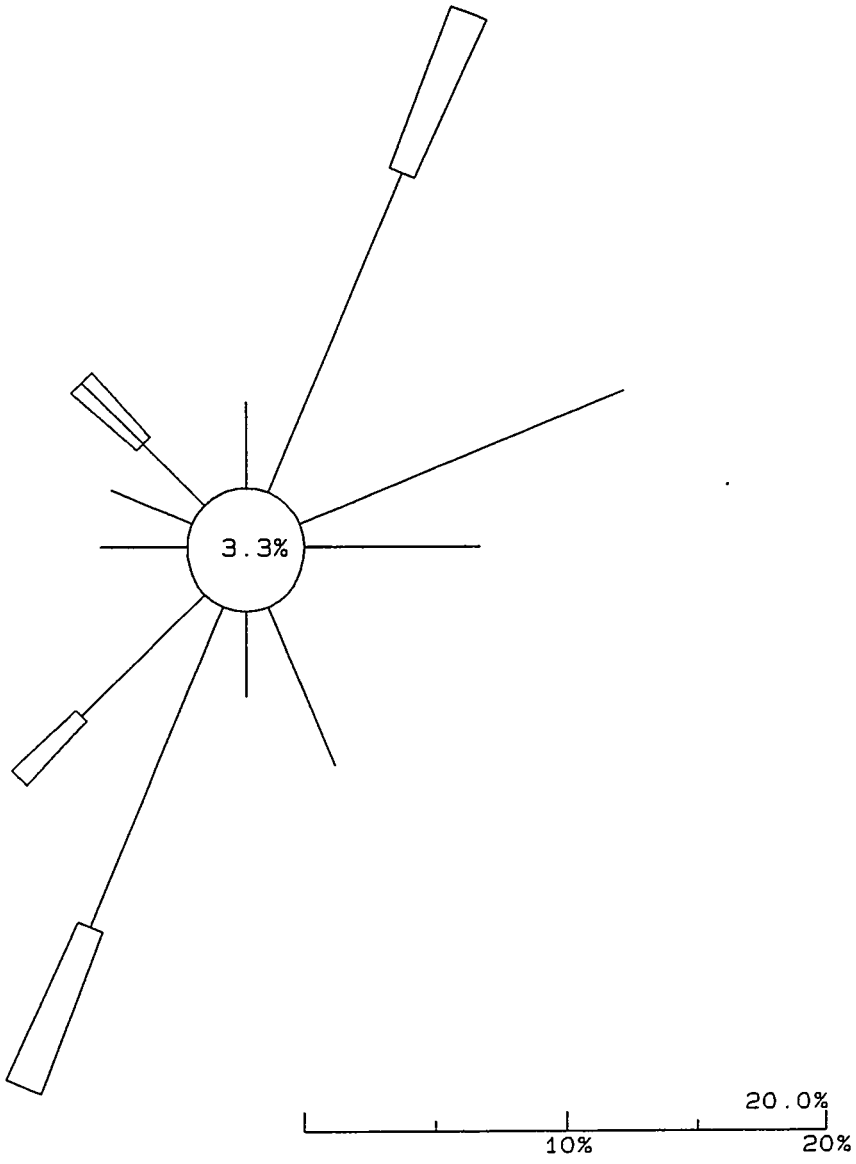


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 5.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
12/ 1/1994 - 12/31/1994
0 - 2300

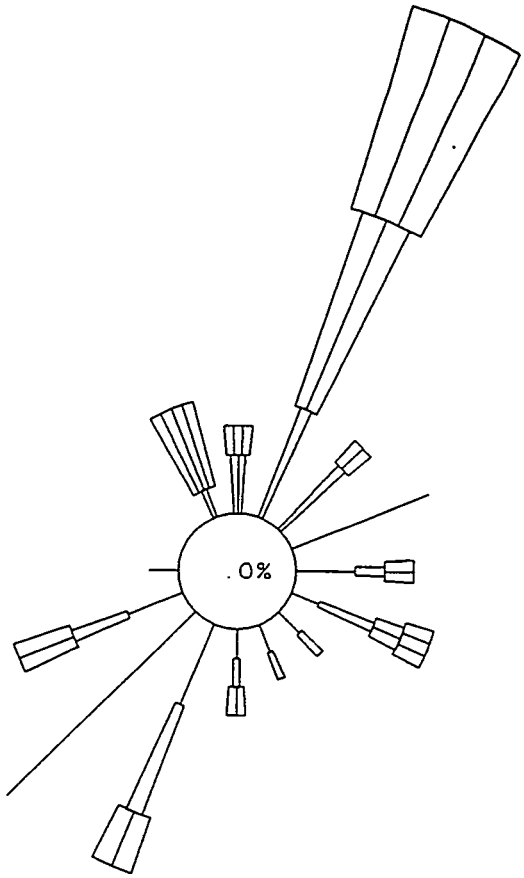


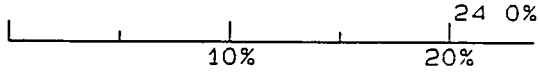
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

65.1% DATA RECOVERED
OF WHICH 6.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
1/ 1/1994 - 1/31/1994
0 - 2300



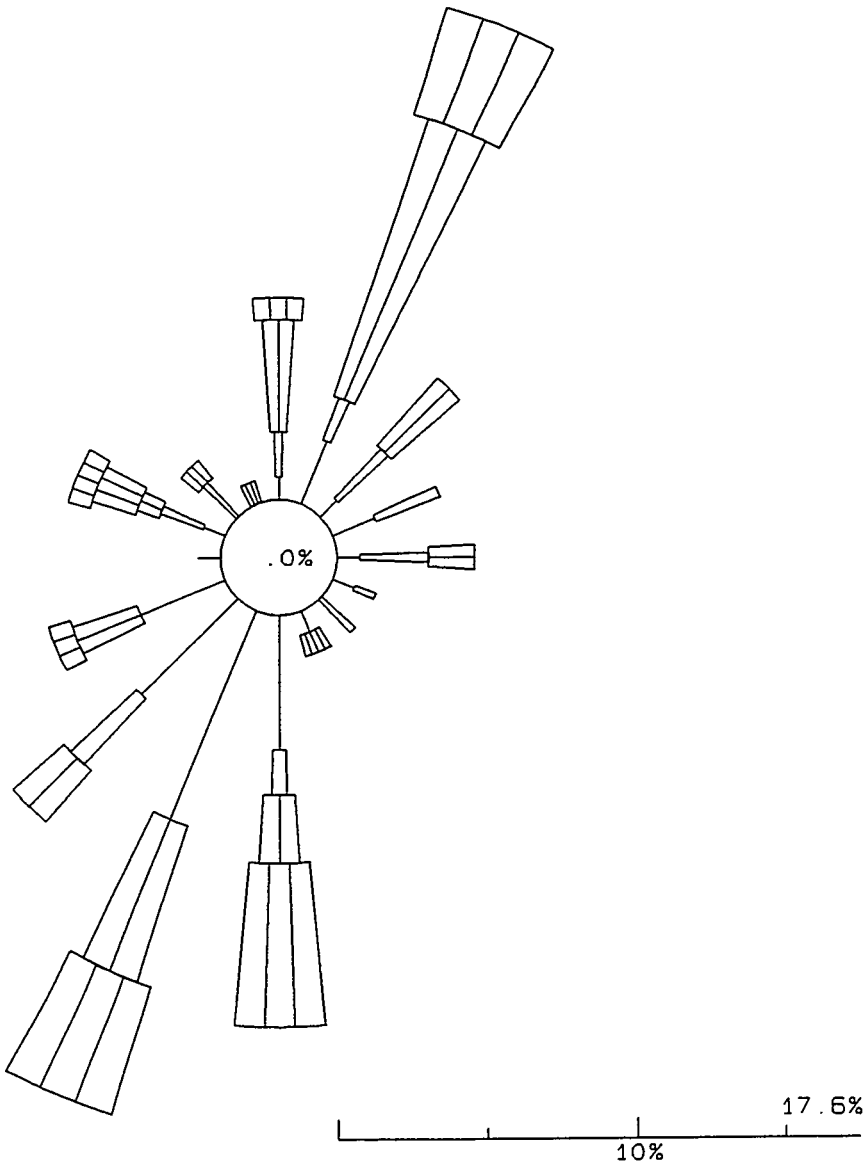


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

78.0% DATA RECOVERED
OF WHICH 12.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
2/ 1/1994 - 2/28/1994
0 - 2300

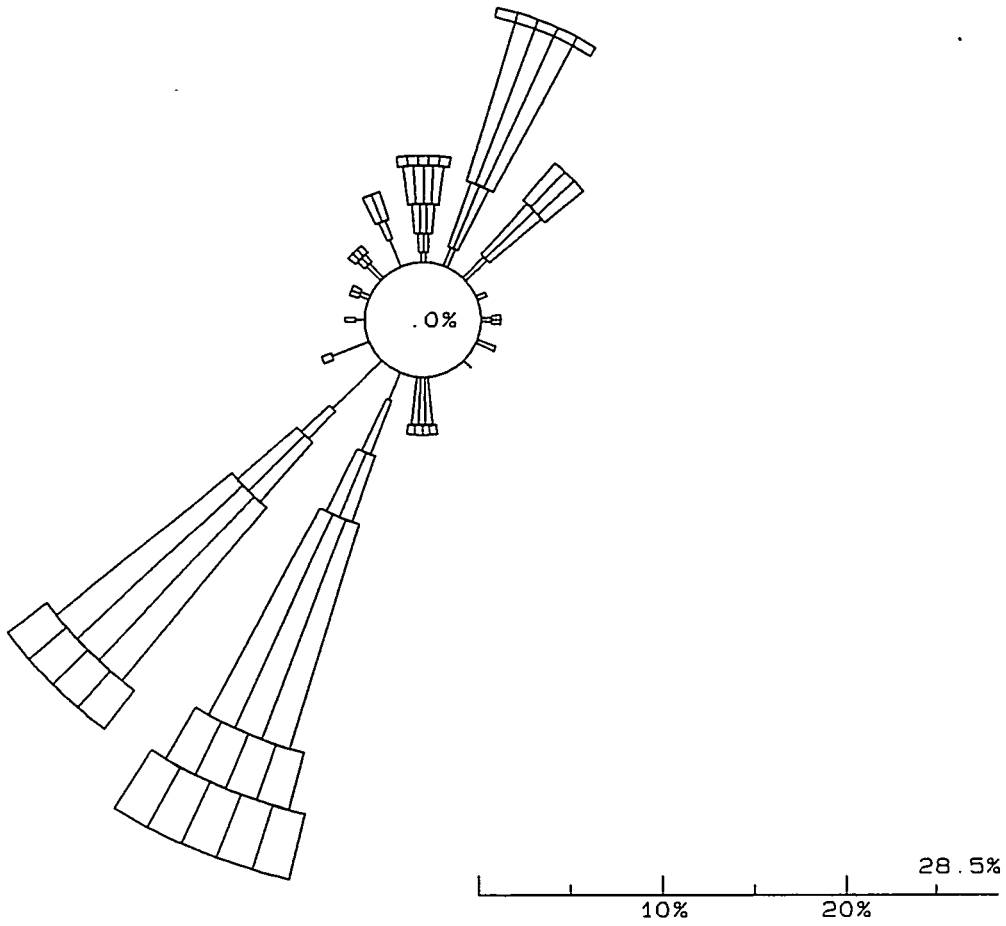


WIND SPEED CLASSES (MPS)

CALM	o	
1	I	WS <= .5
2	□	.5< WS <= 1.8
3	⊟	1.8< WS <= 3.3
4	⊞	3.3< WS <= 5.4
5	⊞I	5.4< WS <= 8.5
6	⊞⊟	8.5< WS <=10.8
		10.8< WS

85.4% DATA RECOVERED
OF WHICH 22.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
3/ 1/1994 - 3/31/1994
0 - 2300

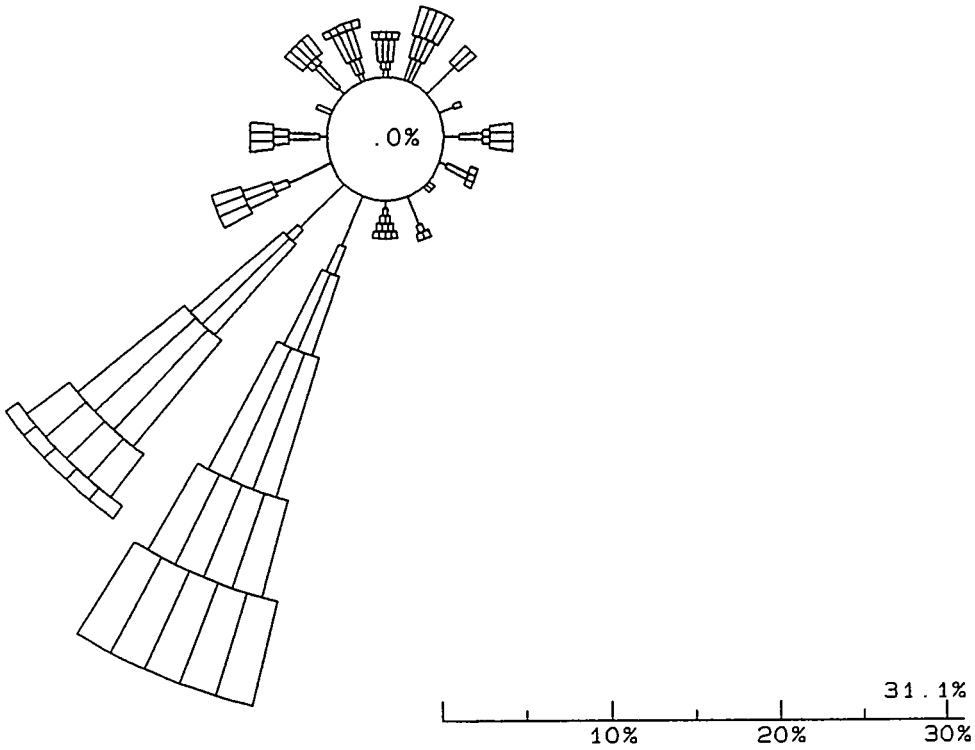


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 25.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
4/ 1/1994 - 4/30/1994
0 - 2300

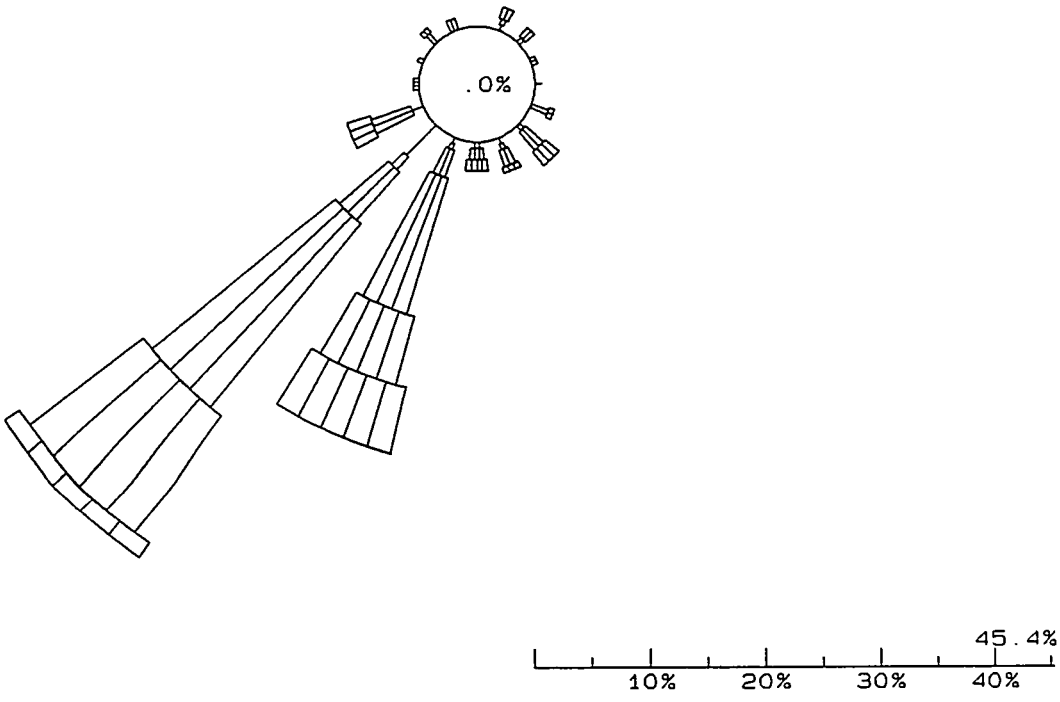


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.4% DATA RECOVERED
OF WHICH 30.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
5/ 1/1994 - 5/31/1994
0 - 2300



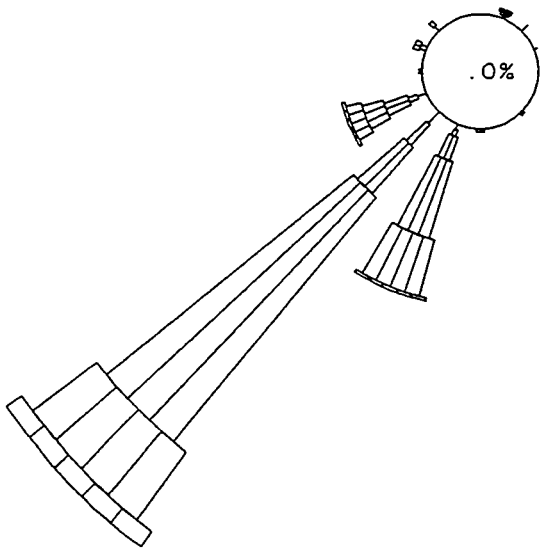
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.9% DATA RECOVERED
OF WHICH 26.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
6/ 1/1994 - 6/30/1994
0 - 2300

N



62.1%
10% 20% 30% 40% 50% 60%

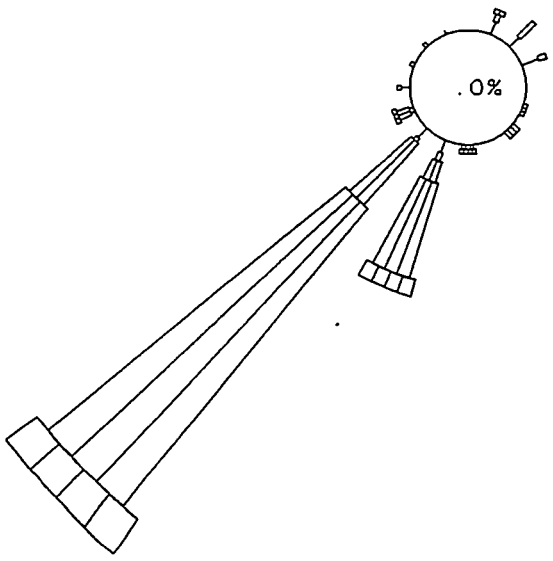
WIND SPEED CLASSES (MPS)

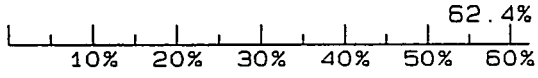
CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 37.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
7/ 1/1994 - 7/31/1994
0 - 2300

N





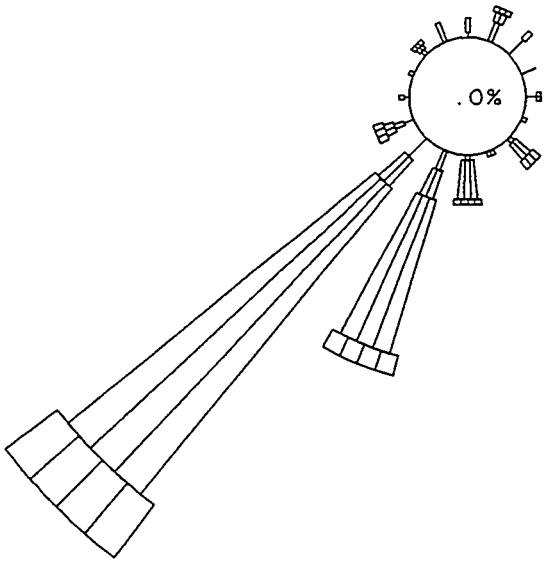
WIND SPEED CLASSES (MPS)

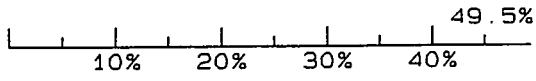
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 26.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
8/ 1/1994 - 8/31/1994
0 - 2300

N



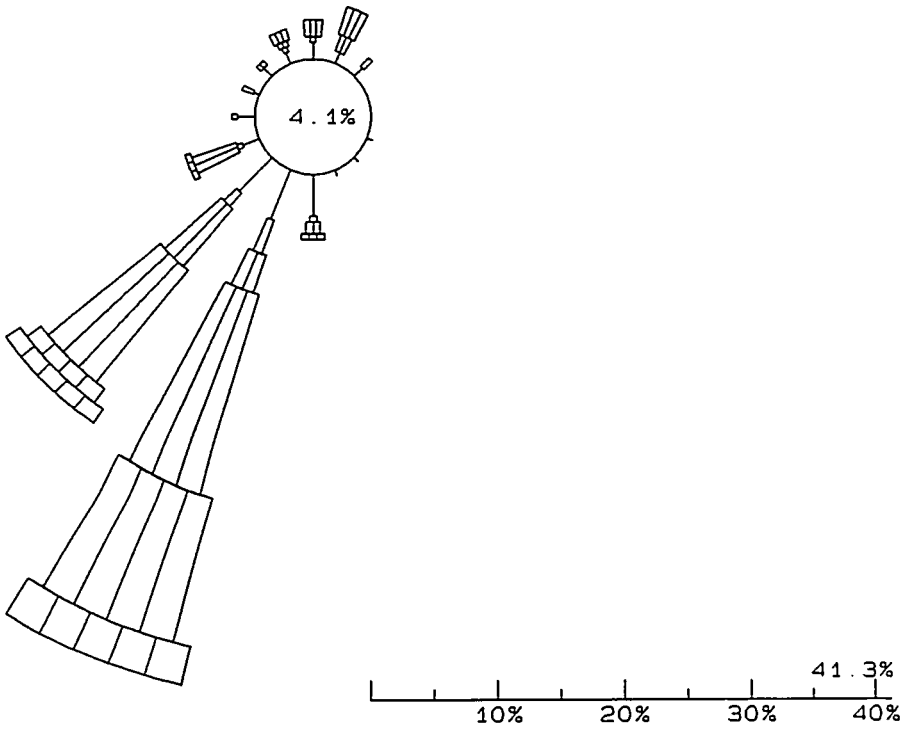


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

100.0% DATA RECOVERED
OF WHICH 28.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
9/ 1/1994 - 9/30/1994
0 - 2300



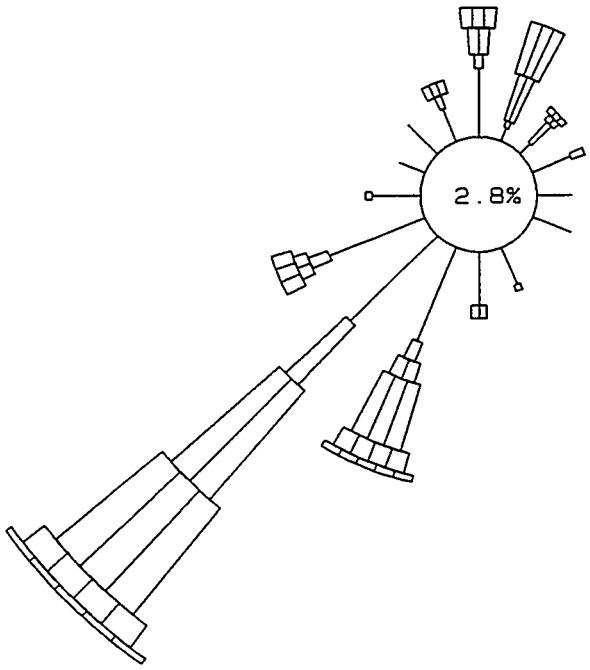
WIND SPEED CLASSES (MPS)

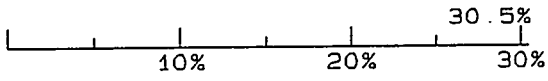
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.7% DATA RECOVERED
OF WHICH 30.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
10/ 1/1994 - 10/31/1994
0 - 2300

N



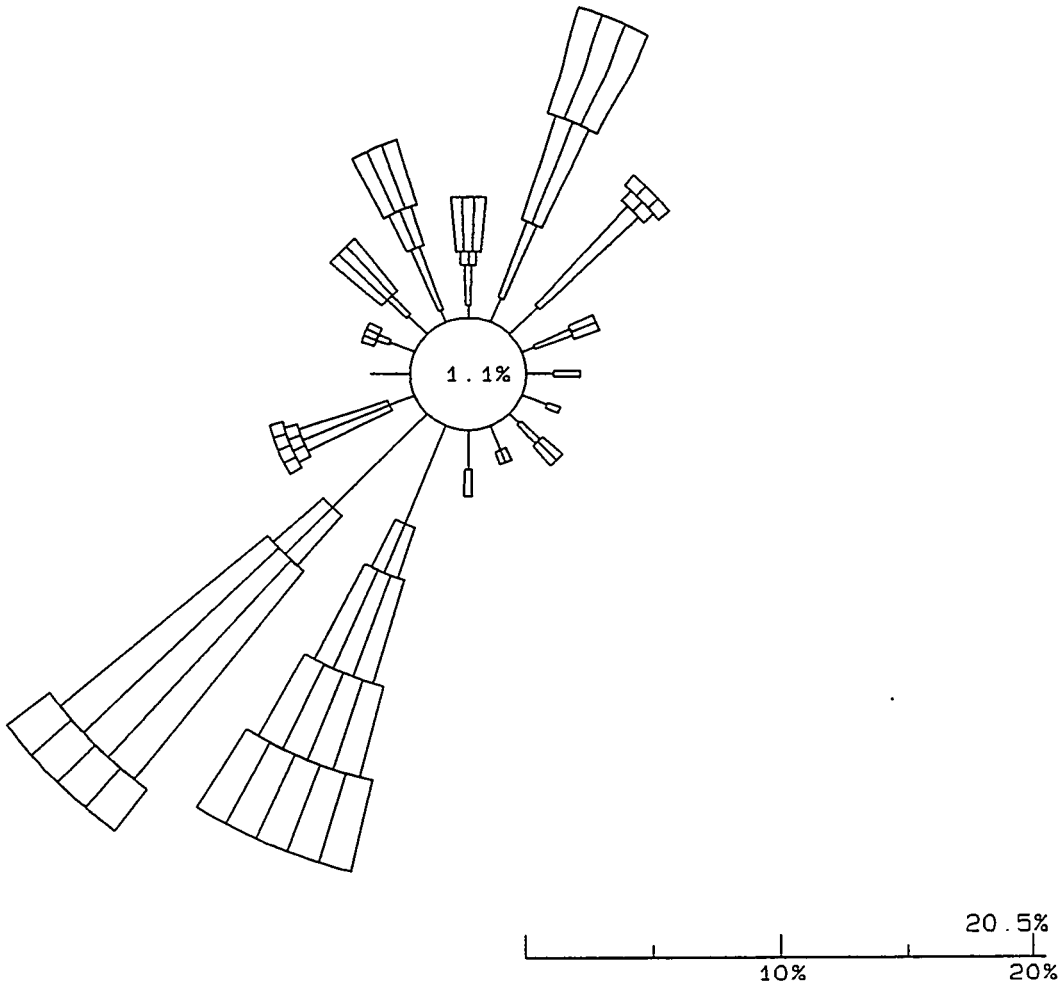


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 33.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
11/ 1/1994 - 11/30/1994
0 - 2300

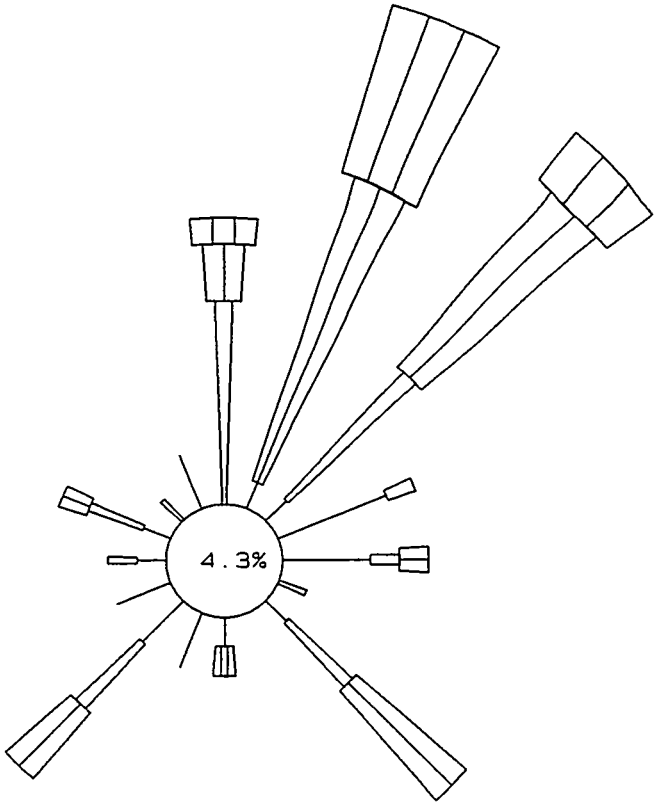


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	⊟	3.3< WS <= 5.4
4	⊟⊟	5.4< WS <= 8.5
5	⊟⊟⊟	8.5< WS <=10.8
6	⊟⊟⊟⊟	10.8< WS

100.0% DATA RECOVERED
OF WHICH 26.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
12/ 1/1994 - 12/31/1994
0 - 2300



19.6%
10%

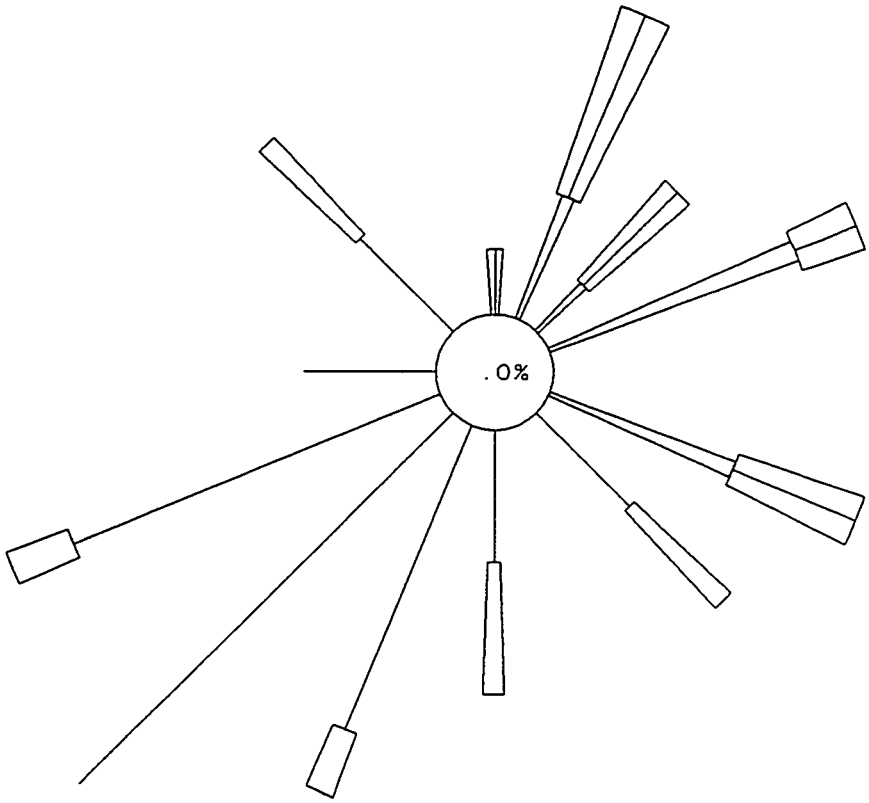
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

65.1% DATA RECOVERED
OF WHICH 19.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
1/ 1/1994 - 1/31/1994
0 - 2300

N



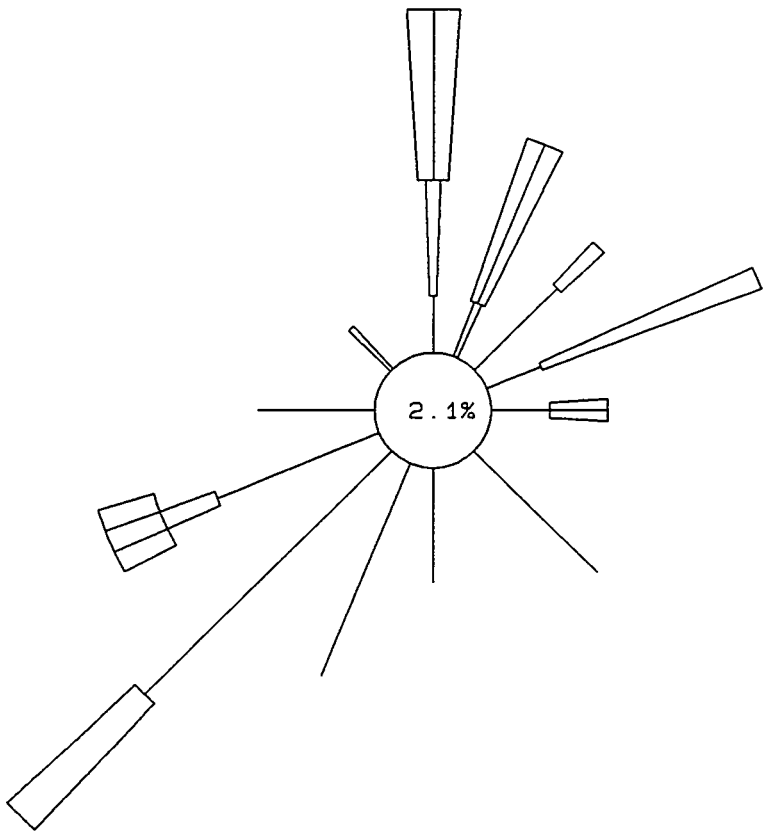
14.8%
10%

WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

78.0% DATA RECOVERED
OF WHICH 9.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
2/ 1/1994 - 2/28/1994
0 - 2300

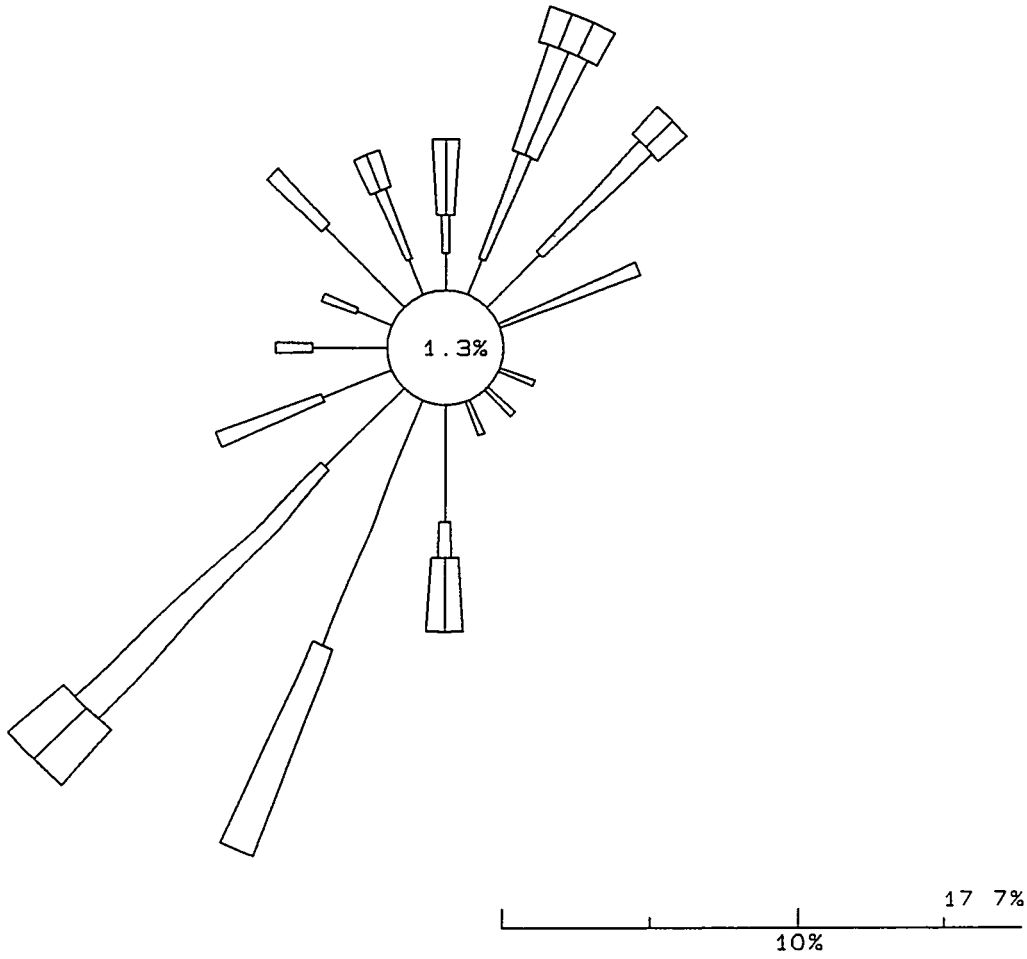


WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

85.4% DATA RECOVERED
OF WHICH 8.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
3/ 1/1994 - 3/31/1994
0 - 2300

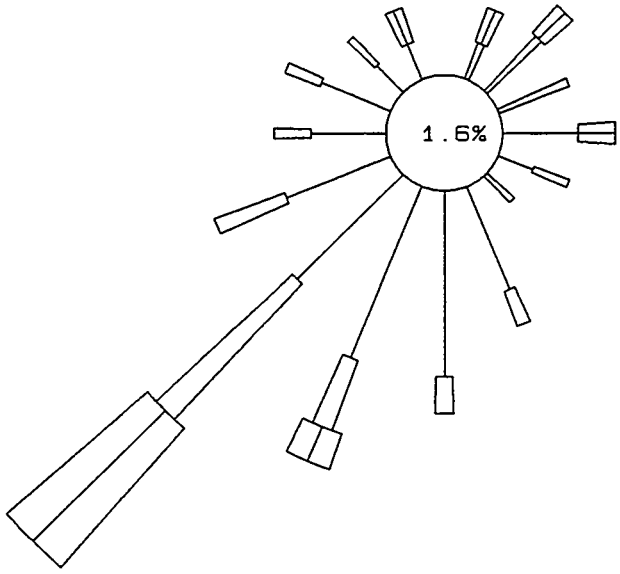


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 10.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
4/ 1/1994 - 4/30/1994
0 - 2300

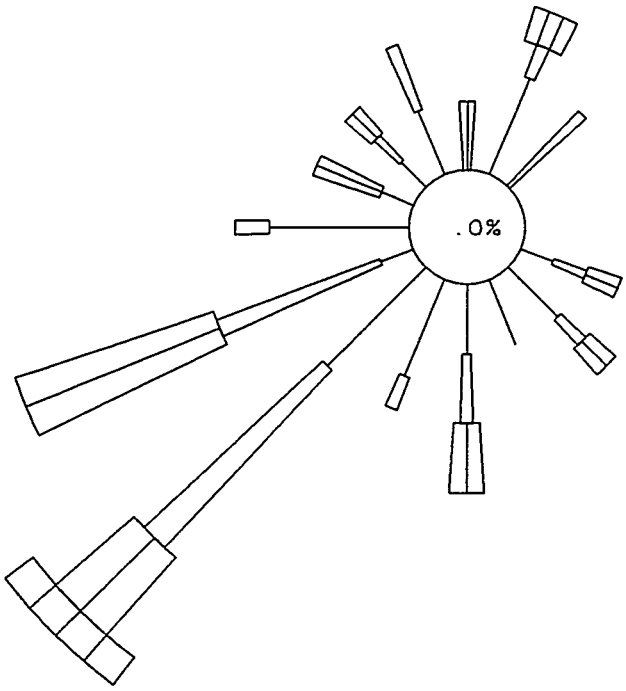


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.4% DATA RECOVERED
OF WHICH 8.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
5/ 1/1994 - 5/31/1994
0 - 2300



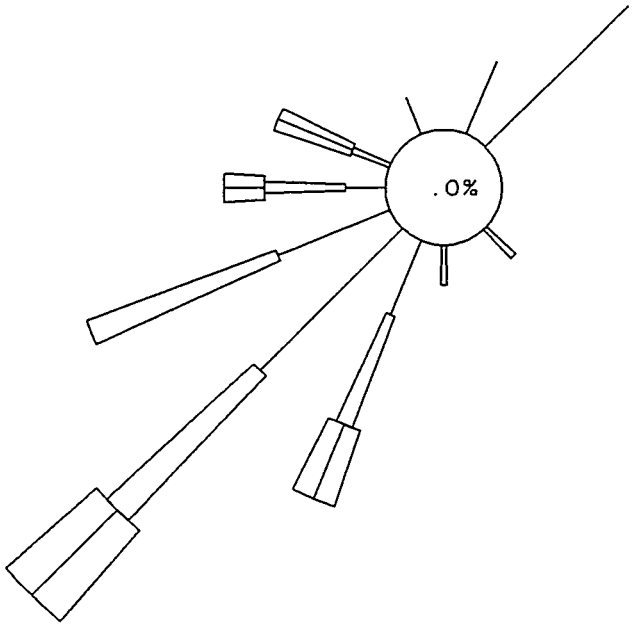
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.9% DATA RECOVERED
OF WHICH 9.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
6/ 1/1994 - 6/30/1994
0 - 2300

N



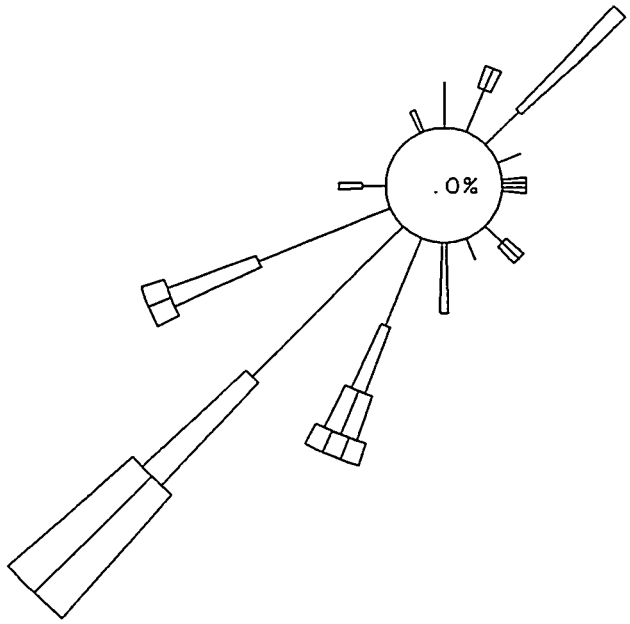
28.9%
10%
20%

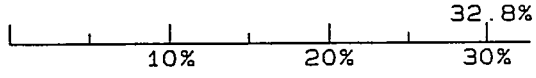
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

100.0% DATA RECOVERED
OF WHICH 6.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
7/ 1/1994 - 7/31/1994
0 - 2300



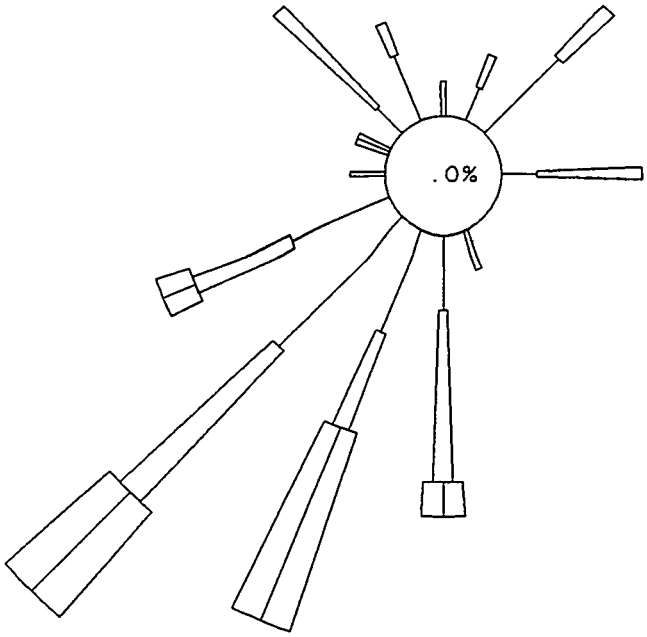


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

100.0% DATA RECOVERED
OF WHICH 9.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
8/ 1/1994 - 8/31/1994
0 - 2300



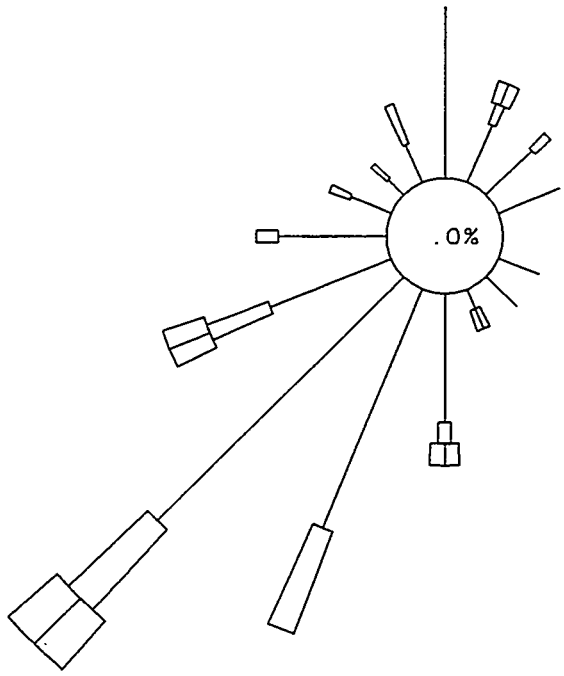
WIND SPEED CLASSES (MPS)

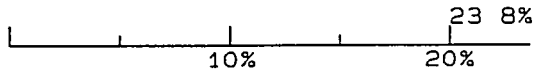
CALM	o	WS <= .5
1	!	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 8.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
9/ 1/1994 - 9/30/1994
0 - 2300

N



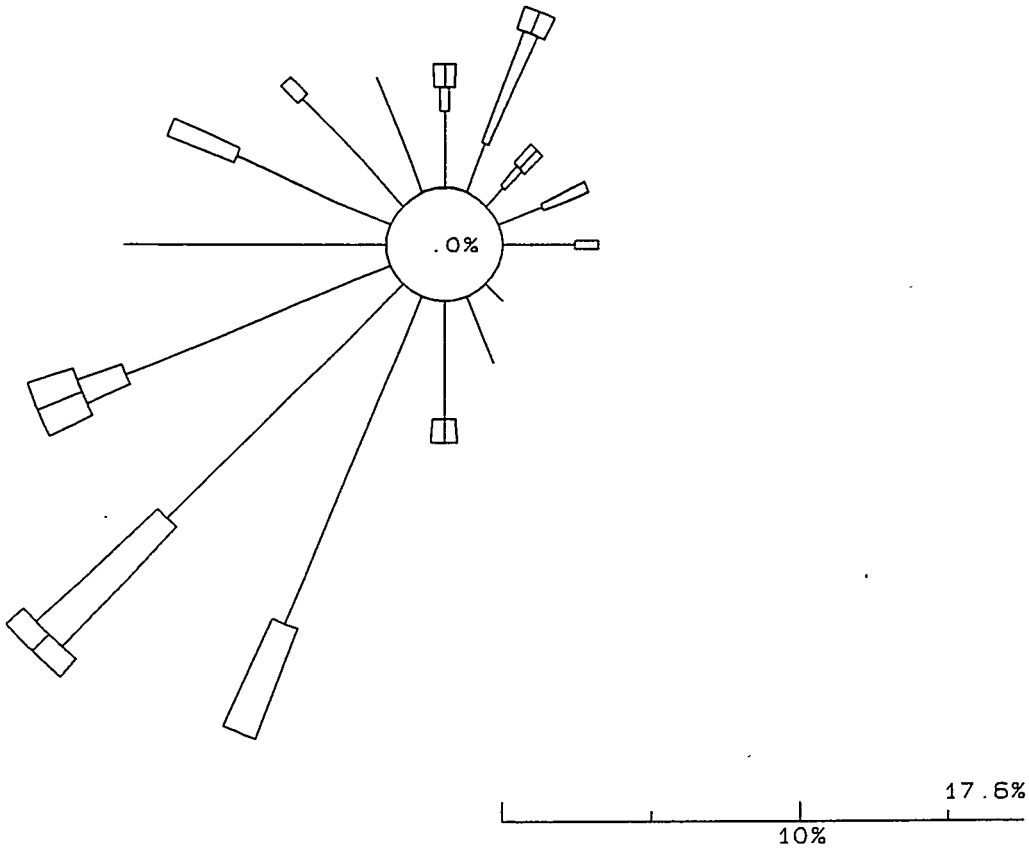


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.7% DATA RECOVERED
OF WHICH 14.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
10/ 1/1994 - 10/31/1994
0 - 2300

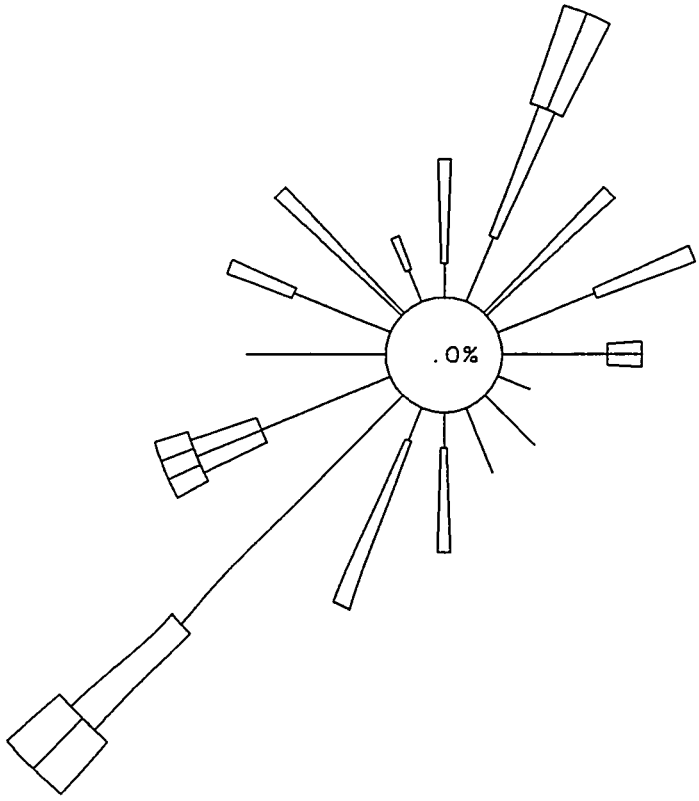


WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

100.0% DATA RECOVERED
OF WHICH 16.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
11/ 1/1994 - 11/30/1994
0 - 2300

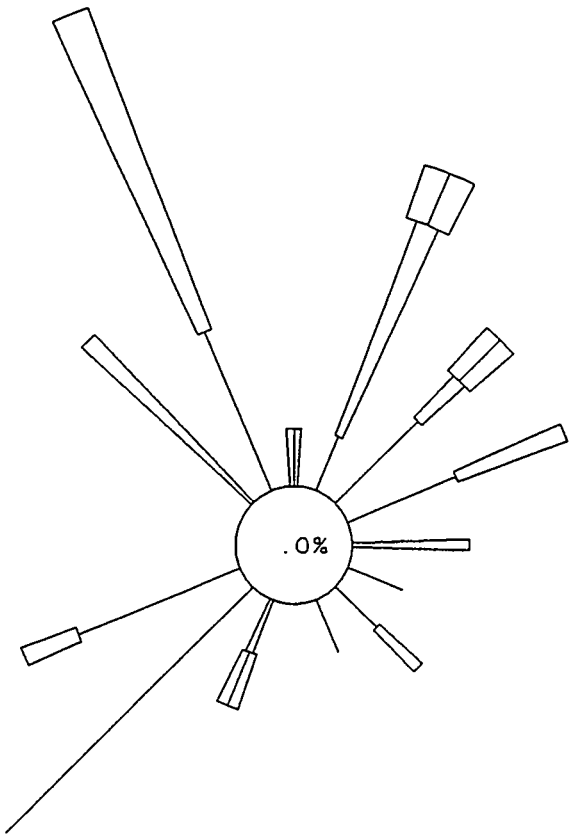


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 11.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
12/ 1/1994 - 12/31/1994
0 - 2300



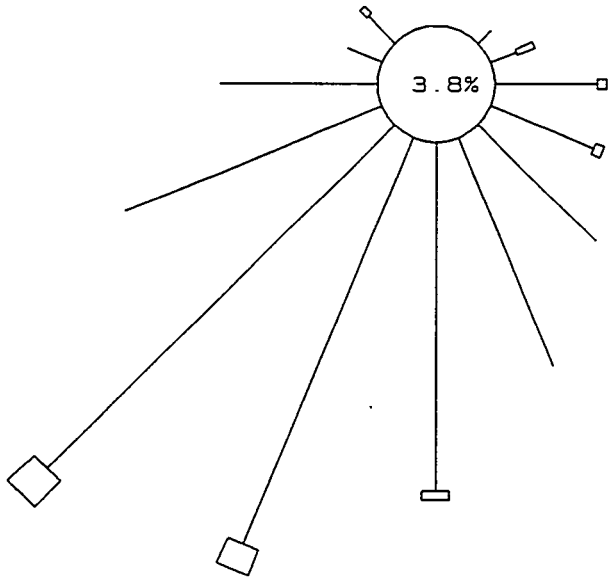
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

65.1% DATA RECOVERED
OF WHICH 9.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
1/ 1/1994 - 1/31/1994
0 - 2300

N



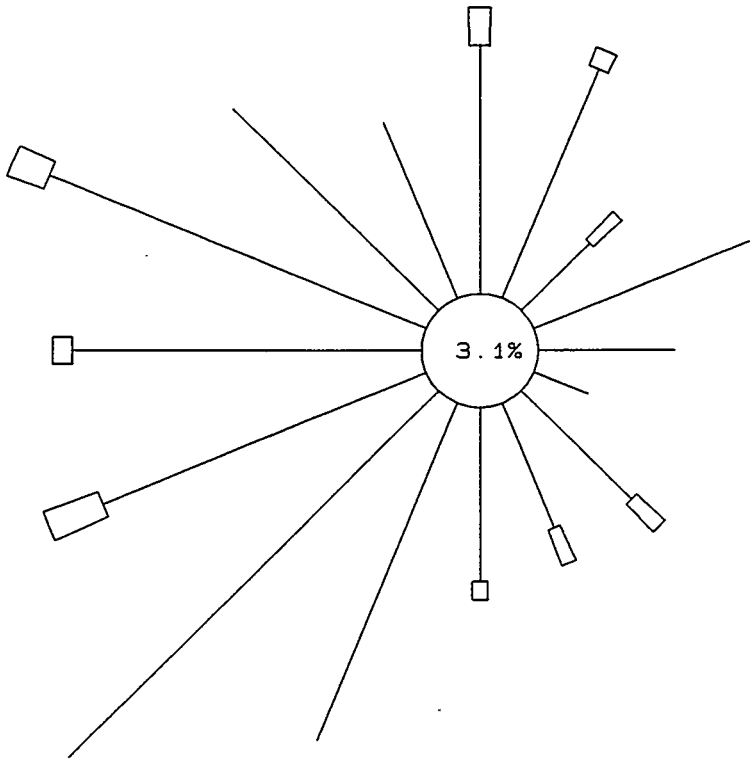
19 6%
10%

WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5 4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

78.0% DATA RECOVERED
OF WHICH 50.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
2/ 1/1994 - 2/28/1994
0 - 2300

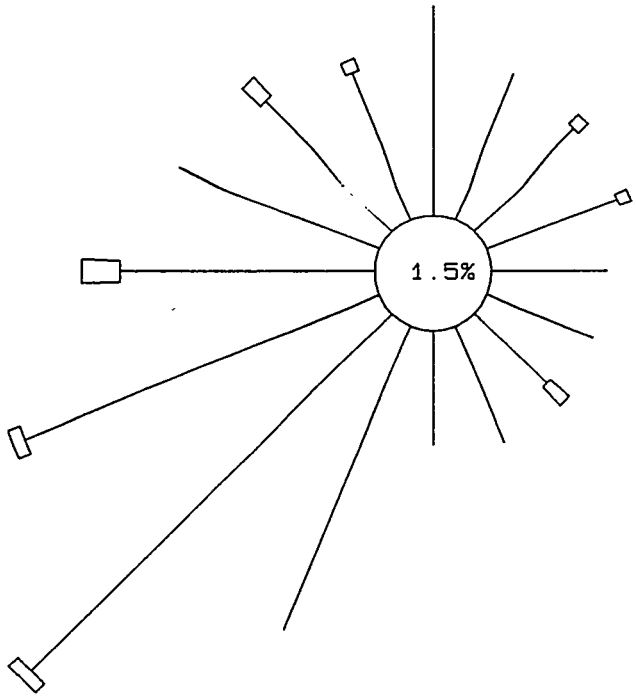


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

85.4% DATA RECOVERED
OF WHICH 39.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
3/ 1/1994 - 3/31/1994
0 - 2300



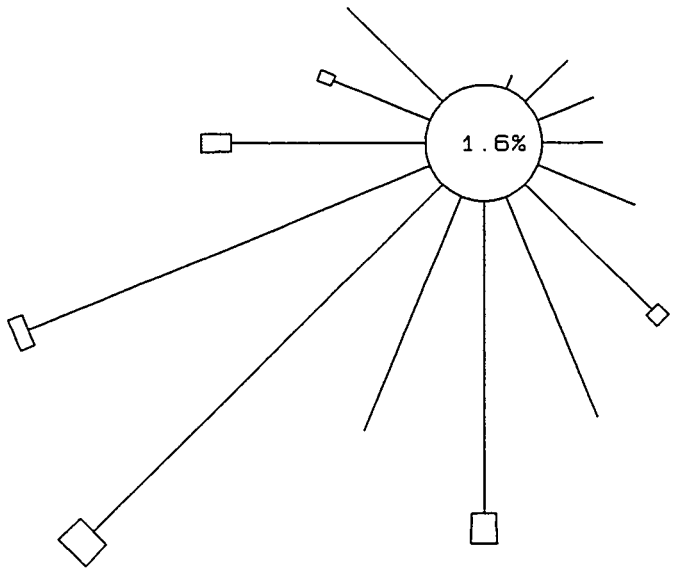
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

100.0% DATA RECOVERED
OF WHICH 36.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
4/ 1/1994 - 4/30/1994
0 - 2300

N



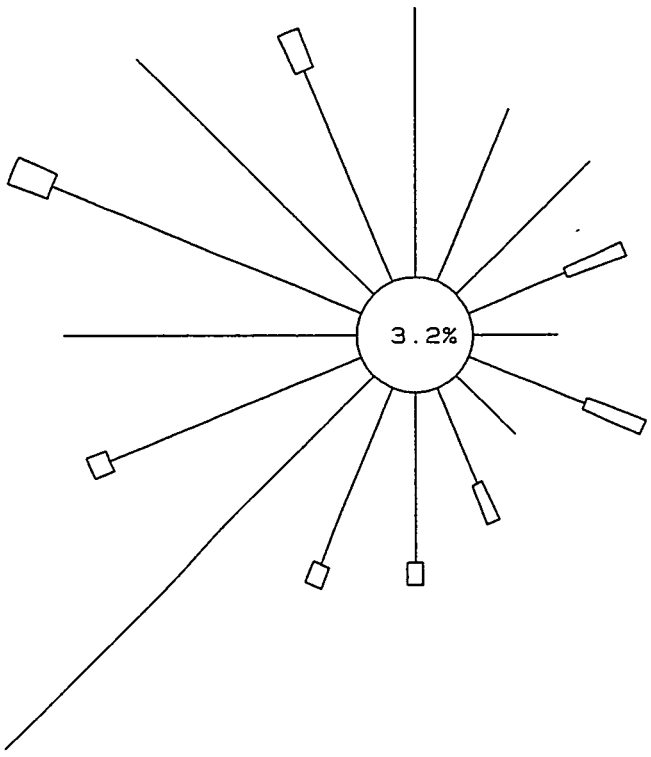
18.5%
10%

WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

99.4% DATA RECOVERED
OF WHICH 26.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
5/ 1/1994 - 5/31/1994
0 - 2300



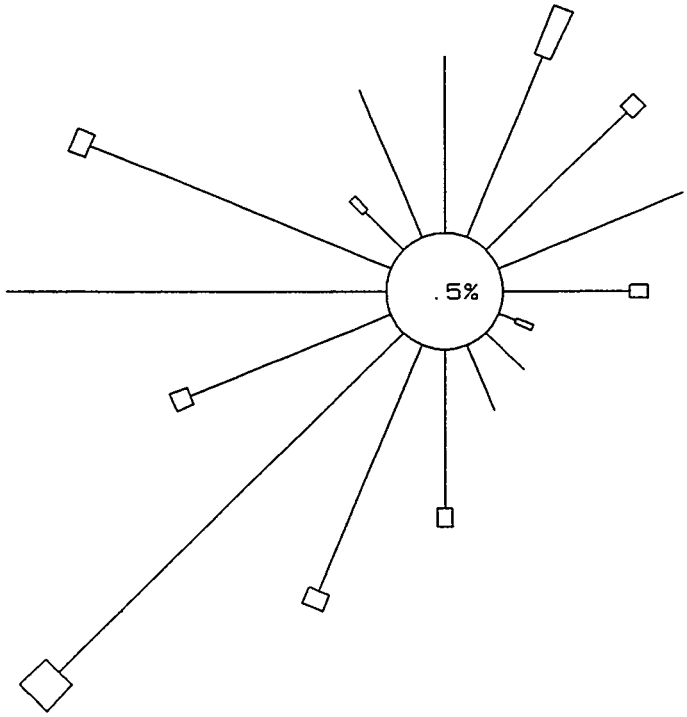
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.9% DATA RECOVERED
OF WHICH 26.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
6/ 1/1994 - 6/30/1994
0 - 2300

N



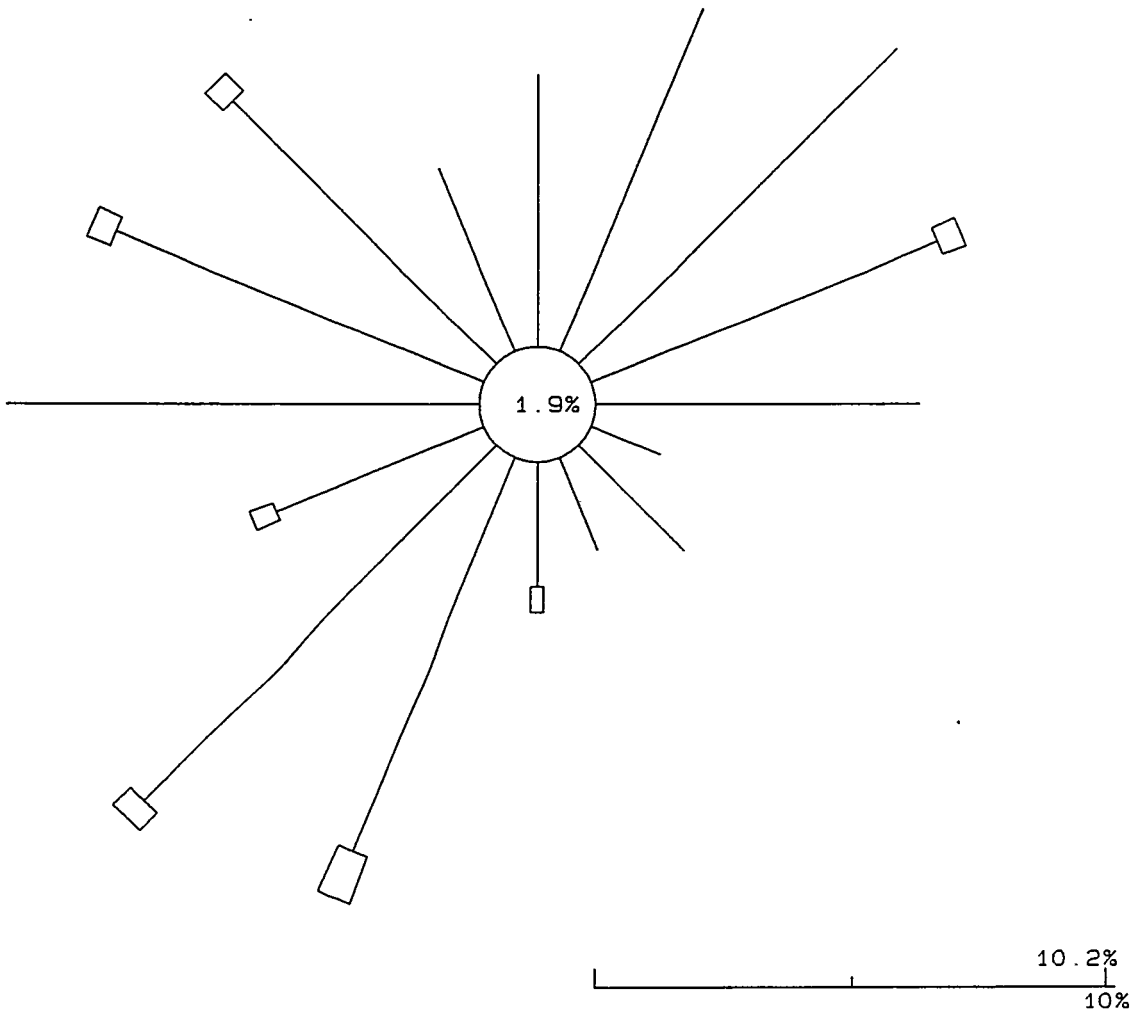
15.6%
10%

WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 25.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
7/ 1/1994 - 7/31/1994
0 - 2300

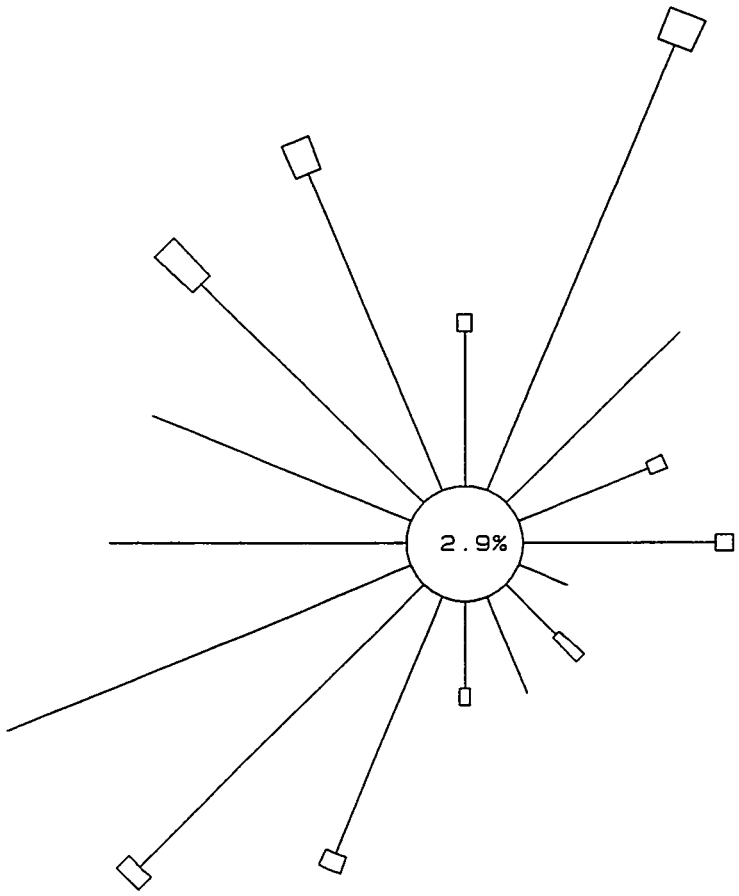


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▭	3.3< WS <= 5.4
4	▭▭	5.4< WS <= 8.5
5	▭▭▭	8.5< WS <=10.8
6	▭▭▭▭	10.8< WS

100.0% DATA RECOVERED
OF WHICH 27.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
8/ 1/1994 - 8/31/1994
0 - 2300



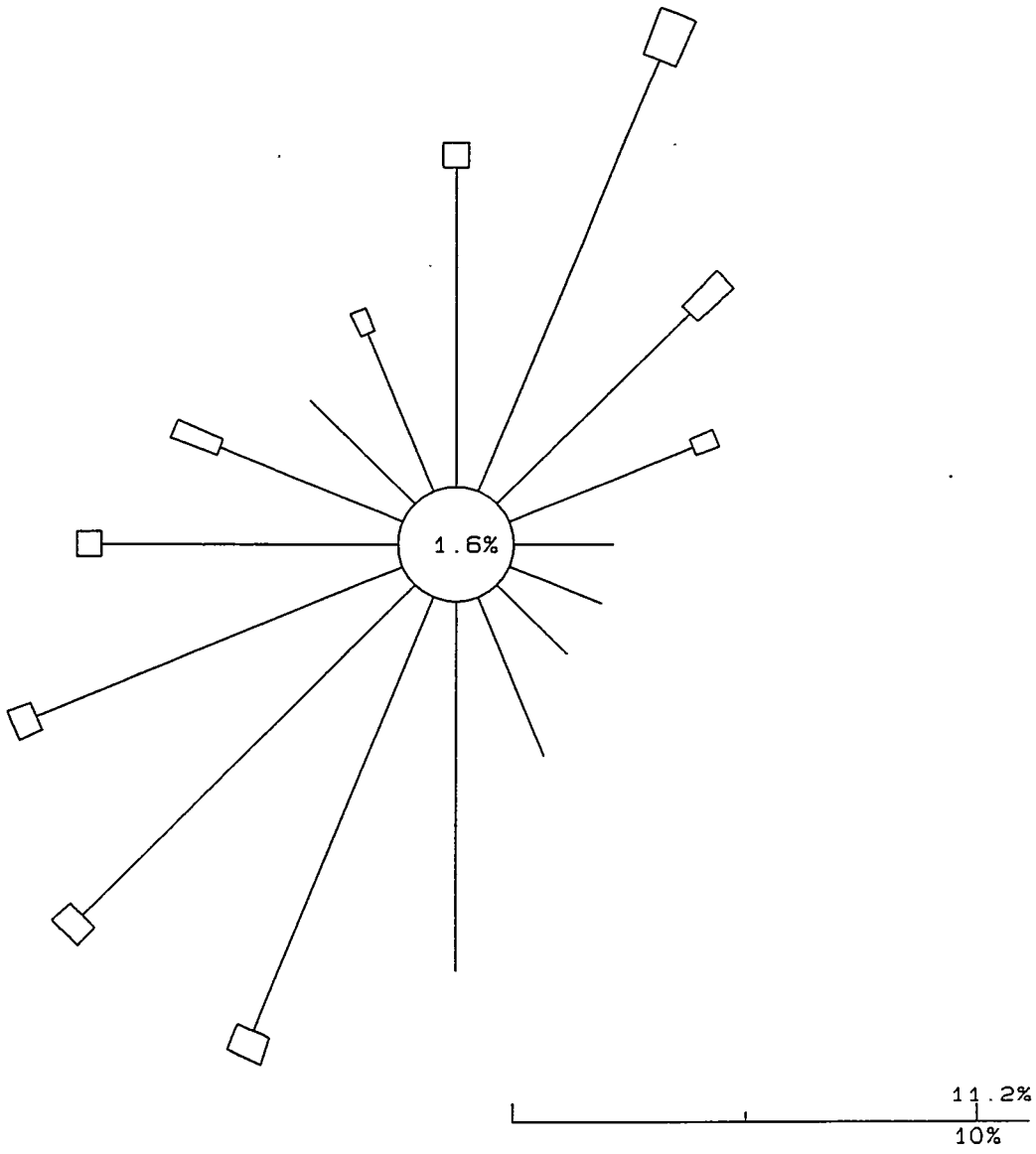
12.2%
10%

WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▯	1.8< WS <= 3.3
3	▯▯	3.3< WS <= 5.4
4	▯▯▯	5.4< WS <= 8.5
5	▯▯▯▯	8.5< WS <=10.8
6	▯▯▯▯▯	10.8< WS

100.0% DATA RECOVERED
OF WHICH 32.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
9/ 1/1994 - 9/30/1994
0 - 2300



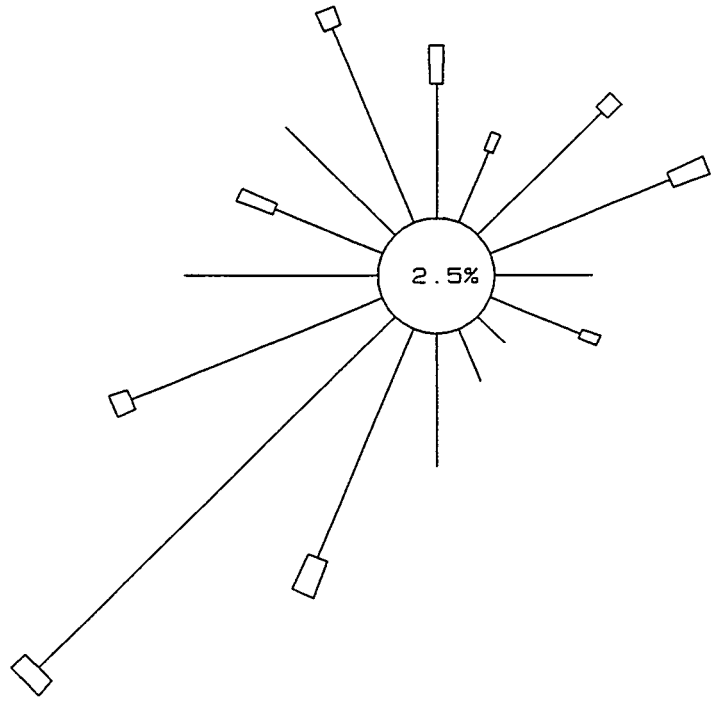
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

99.7% DATA RECOVERED
OF WHICH 26.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
10/ 1/1994 - 10/31/1994
0 - 2300

N



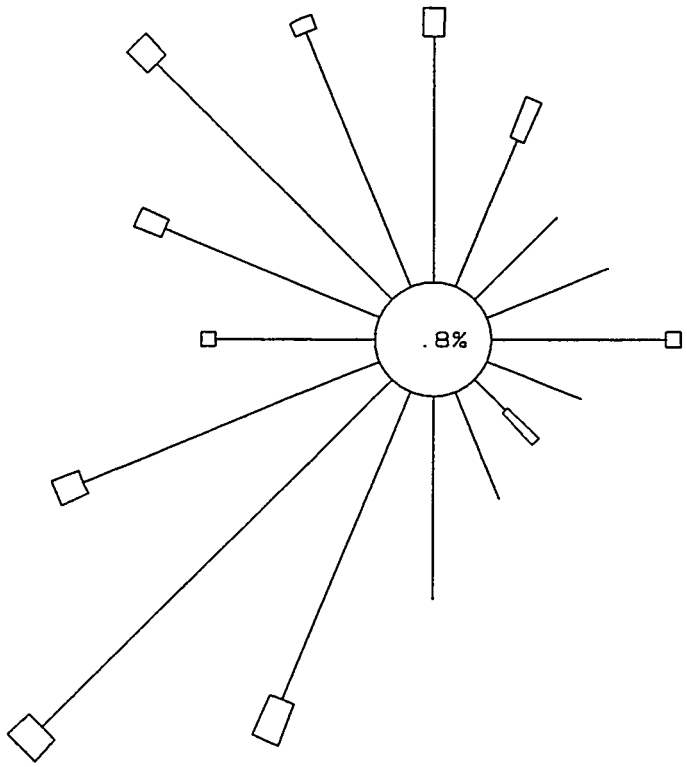
17.1%
10%

WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 21.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
11/ 1/1994 - 11/30/1994
0 - 2300

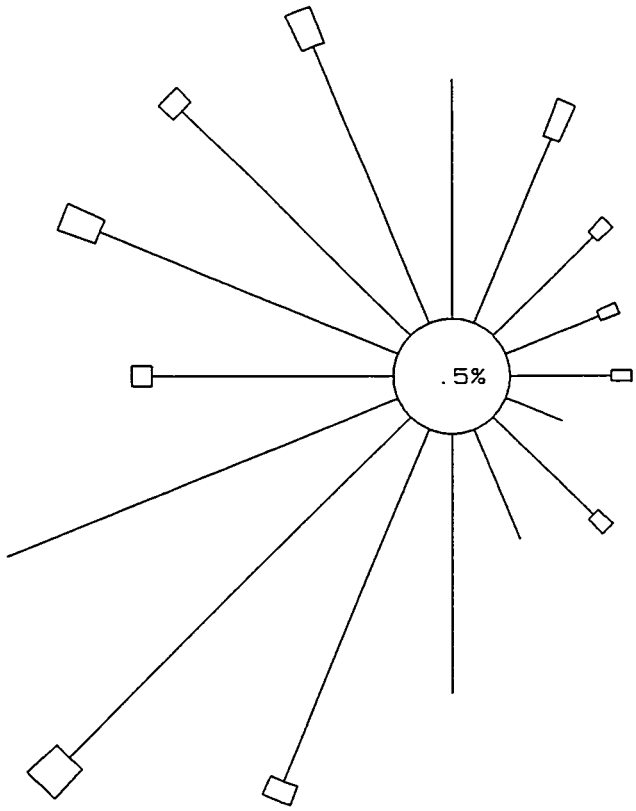


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 36.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
12/ 1/1994 - 12/31/1994
0 - 2300



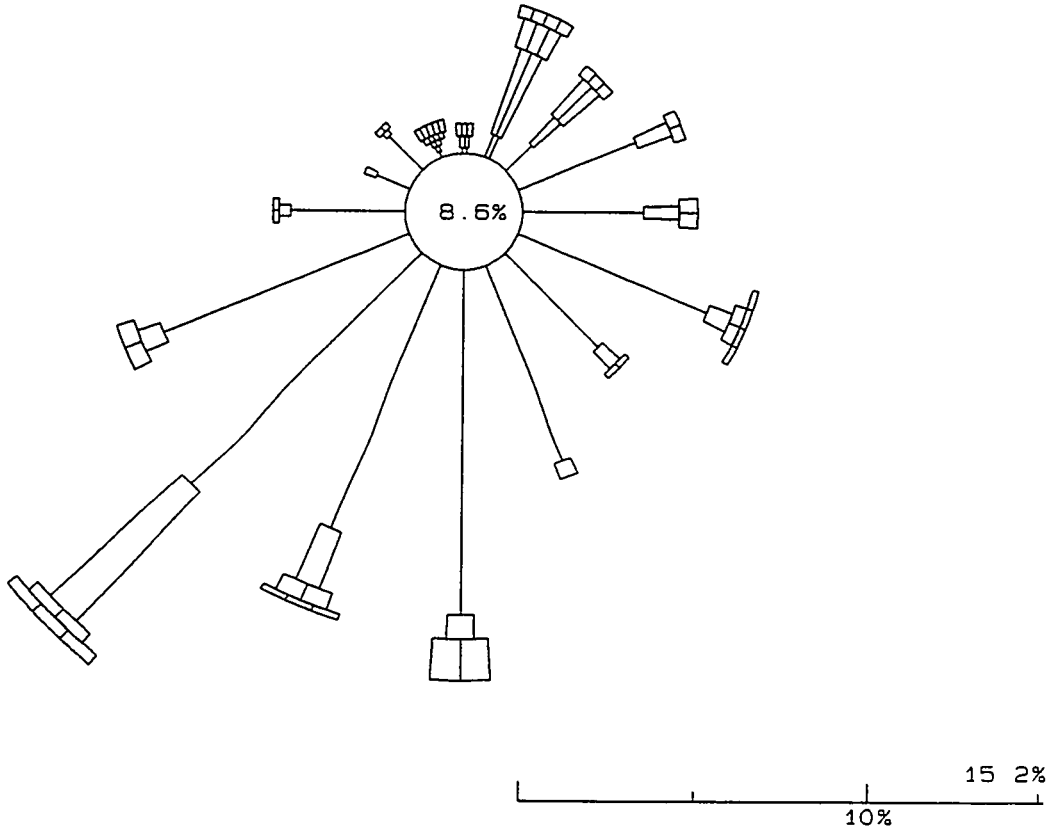
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

65.1% DATA RECOVERED
OF WHICH 42.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
1/ 1/1994 - 1/31/1994
0 - 2300



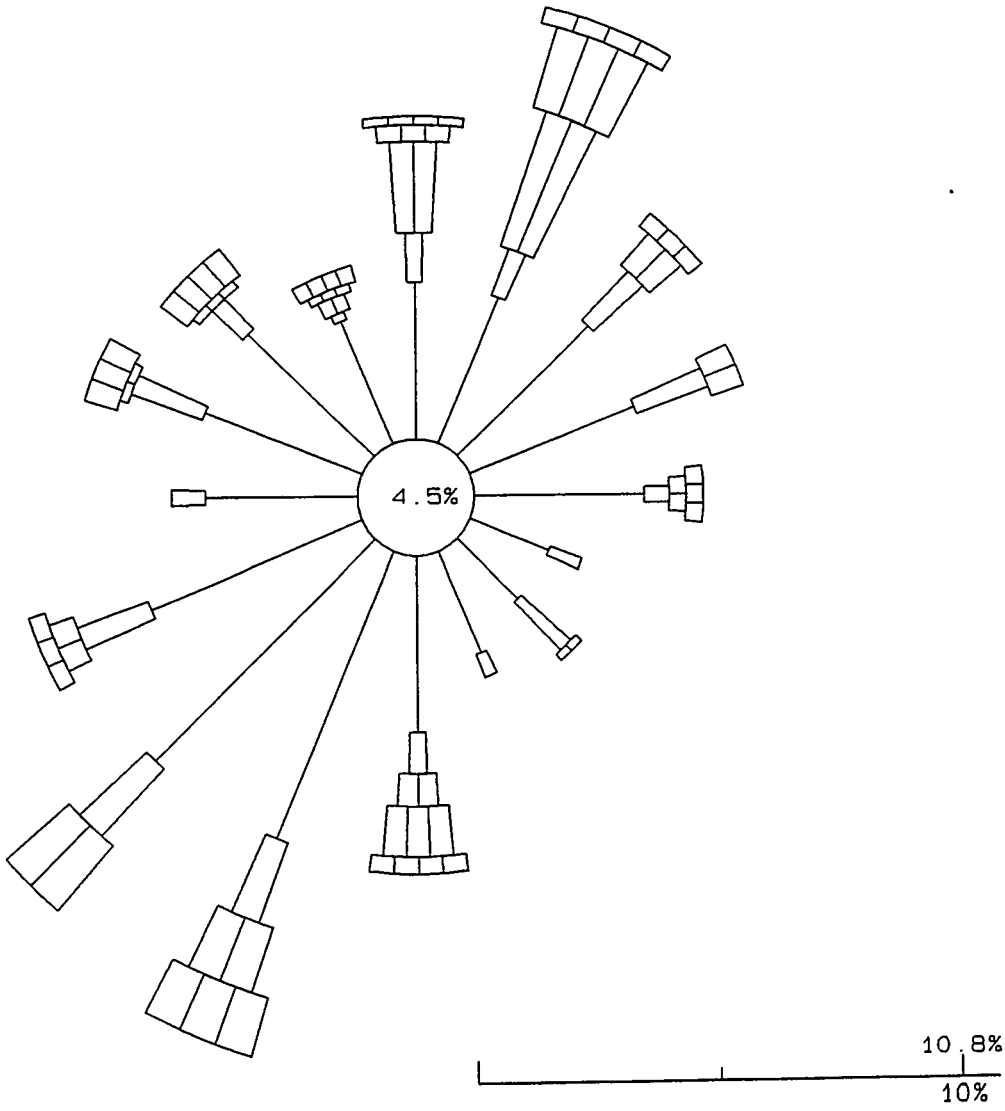
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

78.0% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
2/ 1/1994 - 2/28/1994
0 - 2300



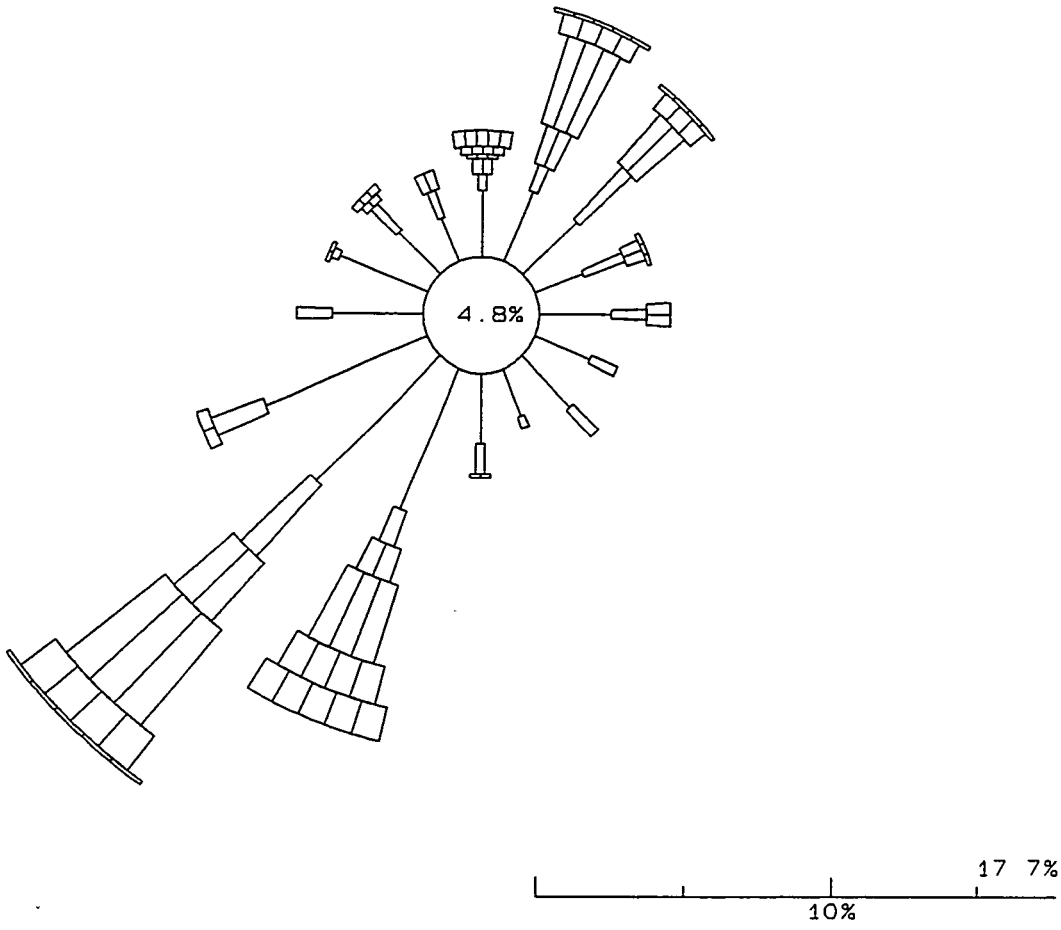
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

85.4% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
3/ 1/1994 - 3/31/1994
0 - 2300



WIND SPEED CLASSES (MPS)

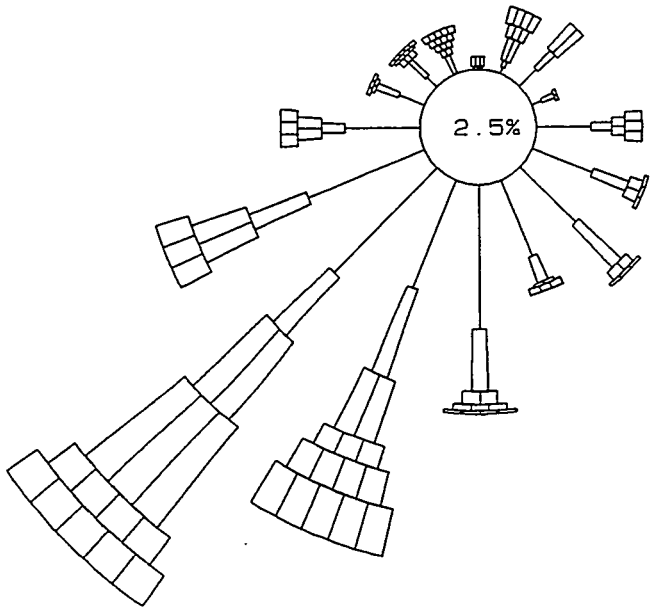
CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
4/ 1/1994 - 4/30/1994
0 - 2300

N



21.4%
10%
20%

WIND SPEED CLASSES (MPS)

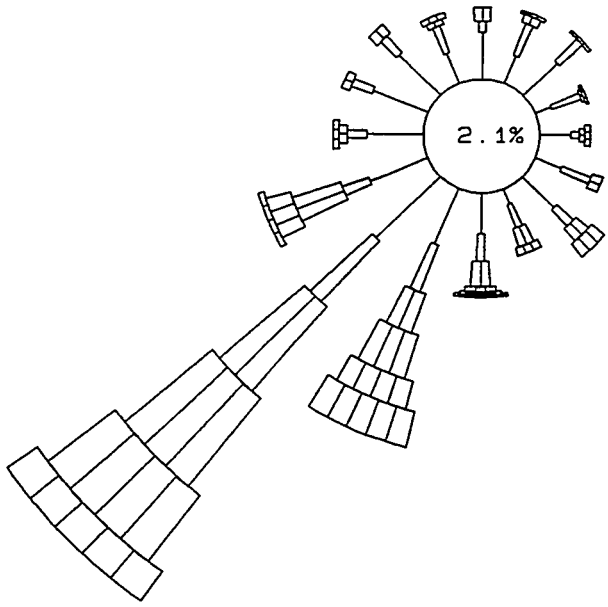
CALM	o	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

99.9% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
5/ 1/1994 - 5/31/1994
0 - 2300

N



25 7%
10%
20%

WIND SPEED CLASSES (MPS)

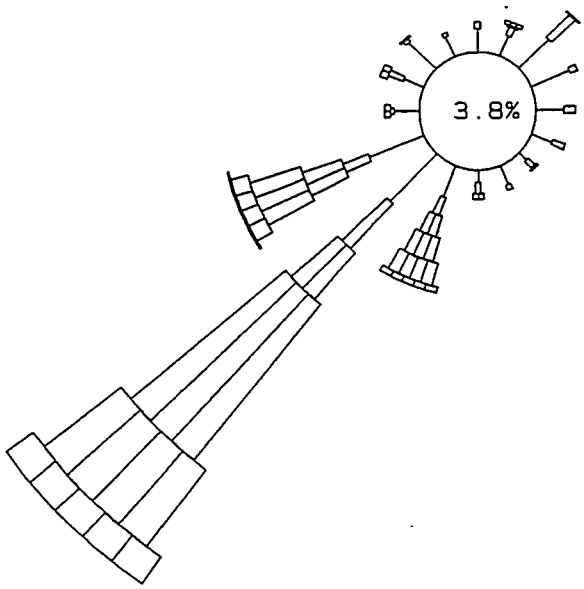
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

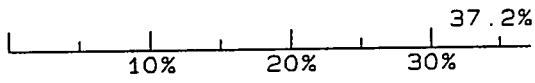
96.9% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
6/ 1/1994 - 6/30/1994
0 - 2300

N





WIND SPEED CLASSES (MPS)

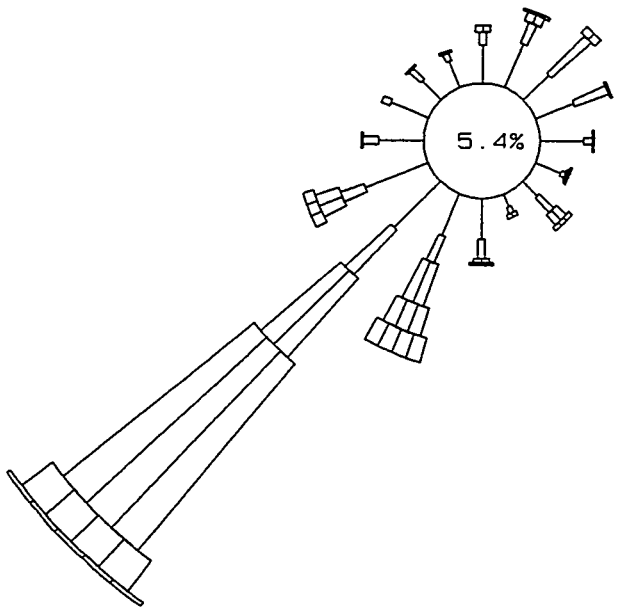
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	O	1.8< WS <= 3.3
3	⊡	3.3< WS <= 5.4
4	⊡⊡	5.4< WS <= 8.5
5	⊡⊡⊡	8.5< WS <=10.8
6	⊡⊡⊡⊡	10.8< WS

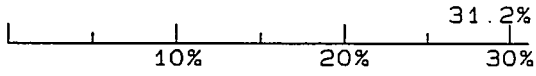
100.0% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
7/ 1/1994 - 7/31/1994
0 - 2300

N





WIND SPEED CLASSES (MPS)

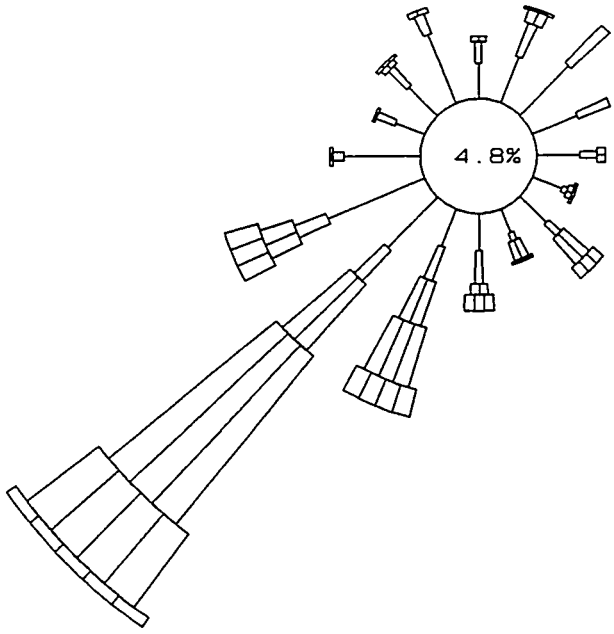
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
8/ 1/1994 - 8/31/1994
0 - 2300

N



24.9%
10%
20%

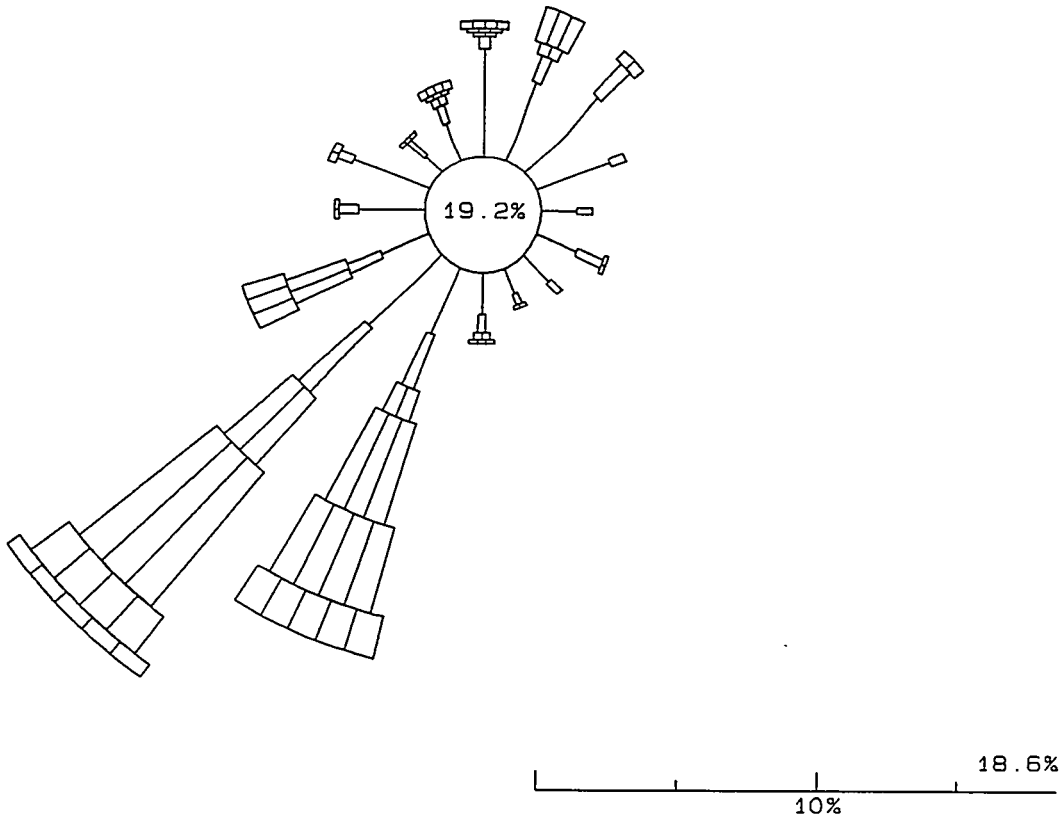
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
9/ 1/1994 - 9/30/1994
0 - 2300



WIND SPEED CLASSES (MPS)

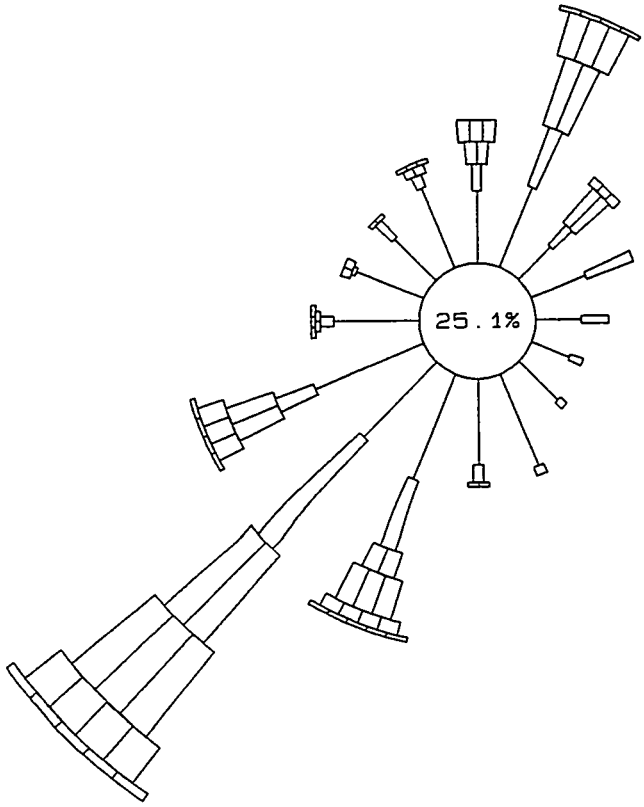
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.2% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
10/ 1/1994 - 10/31/1994
0 - 2300

N



15.8%
10%

WIND SPEED CLASSES (MPS)

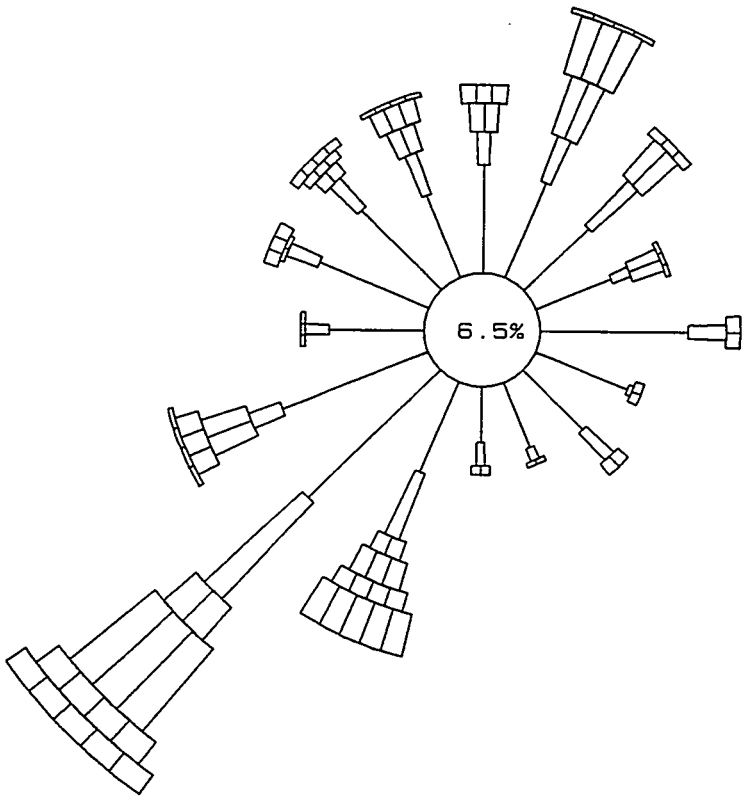
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

98.5% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
11/ 1/1994 - 11/30/1994
0 - 2300

N



15.3%
10%

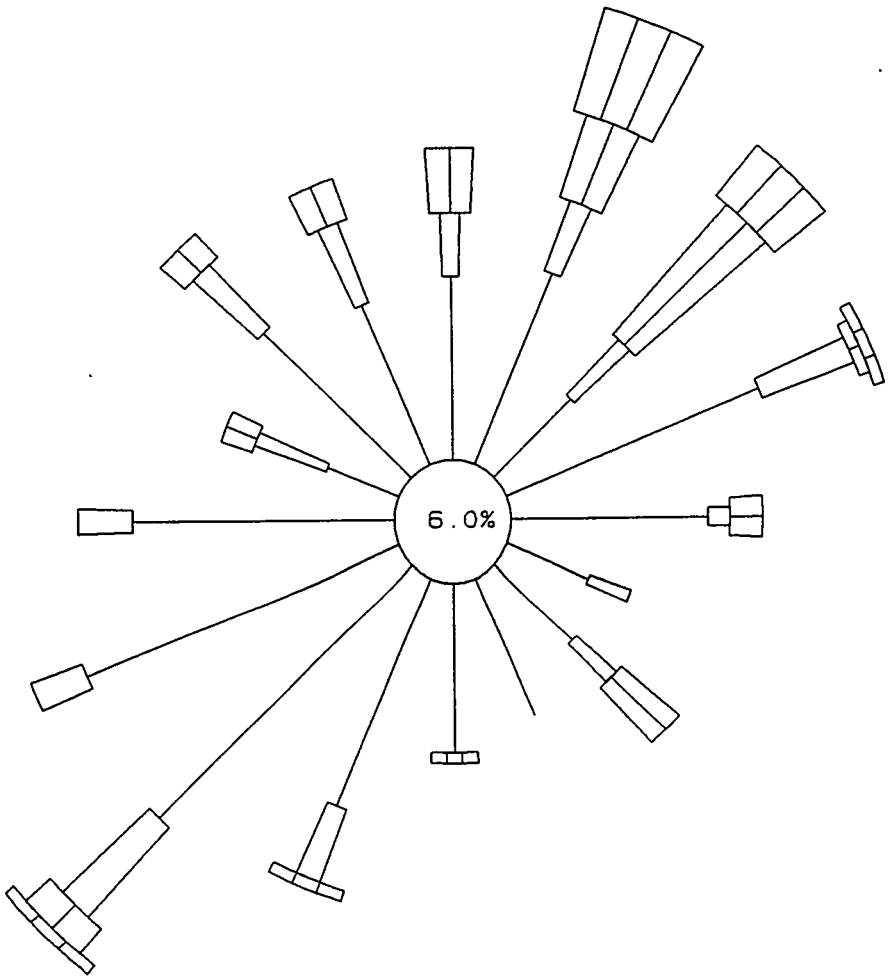
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.7% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
12/ 1/1994 - 12/31/1994
0 - 2300



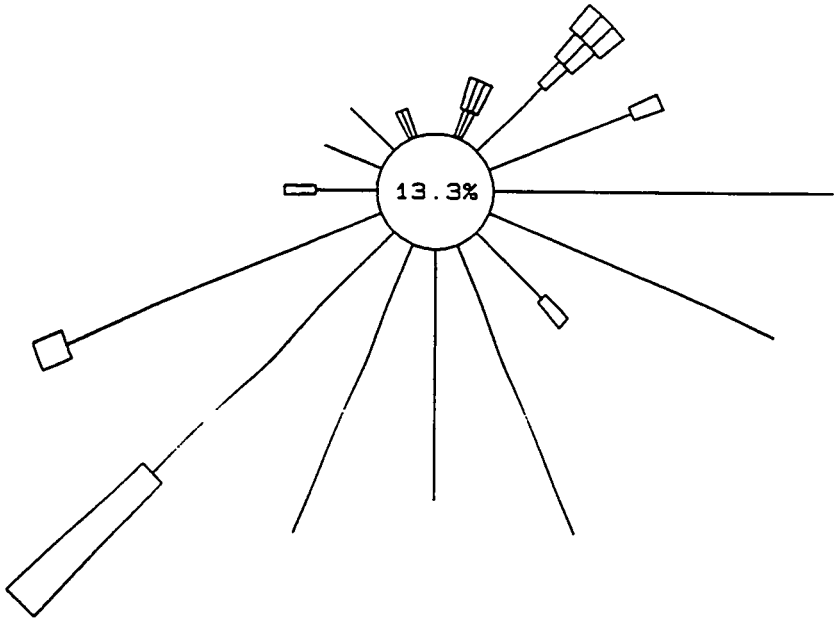
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

65.1% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
1/ 1/1994 - 1/31/1994
600 - 1000



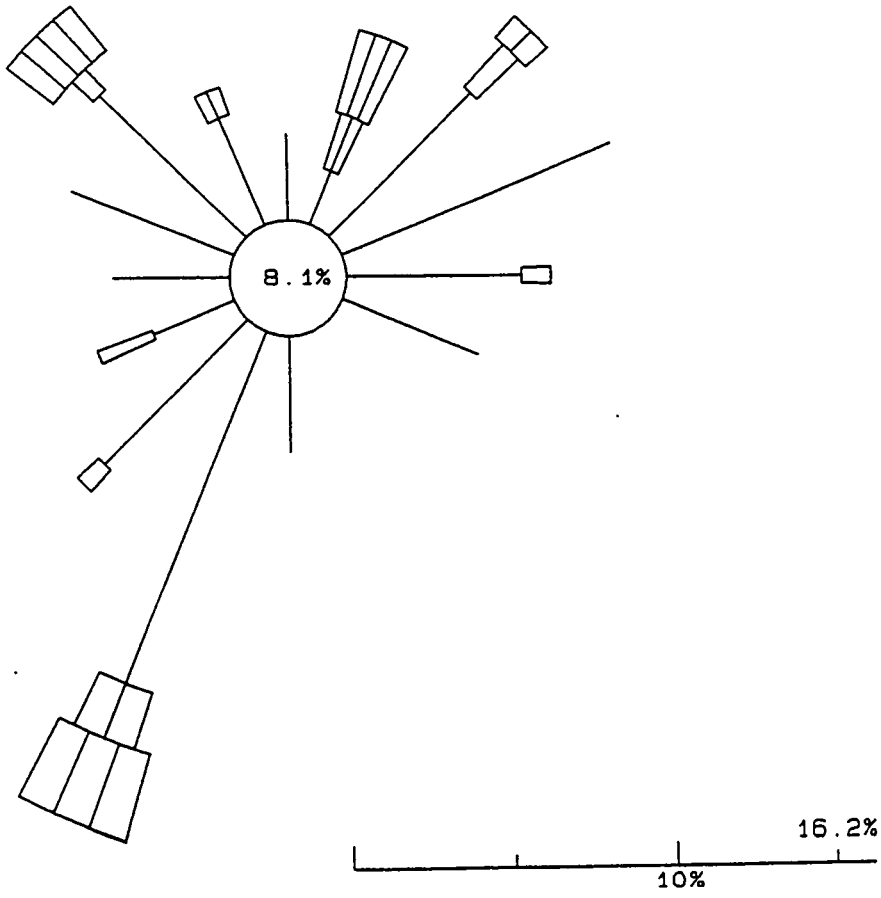
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

78.0% DATA RECOVERED
OF WHICH 20.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
2/ 1/1994 - 2/28/1994
600 - 1000



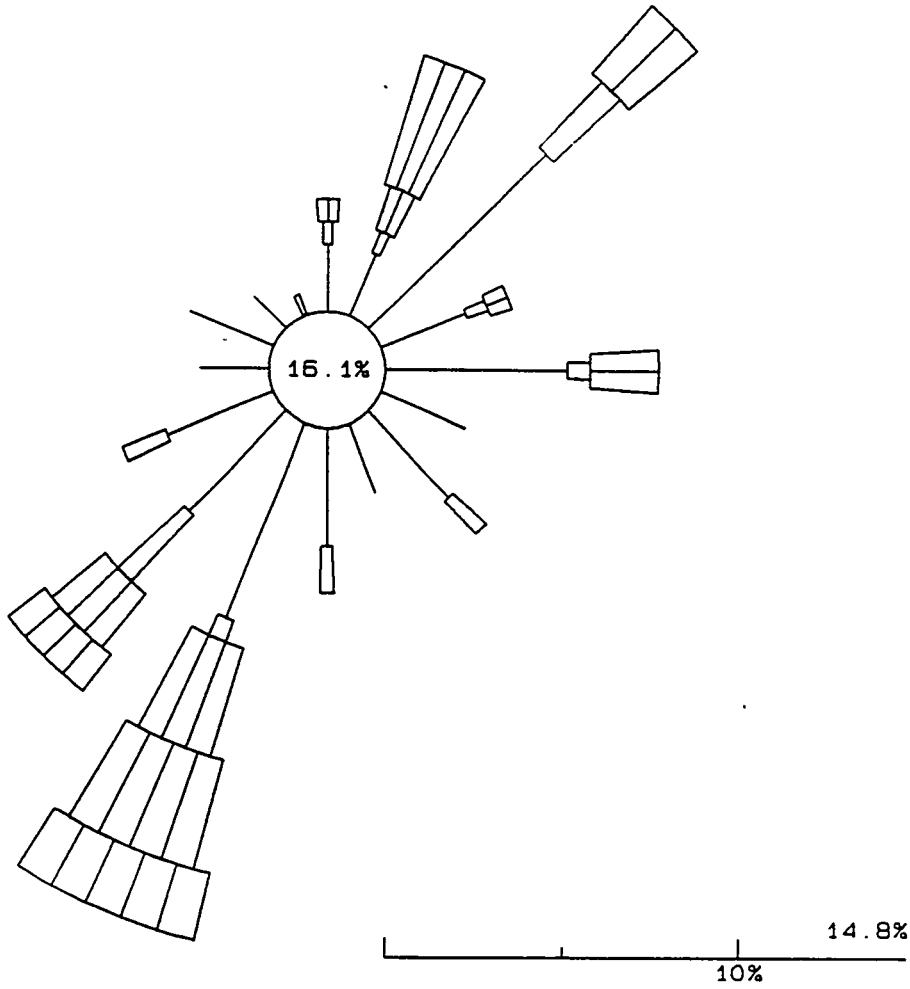
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

85.4% DATA RECOVERED
OF WHICH 19.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
3/ 1/1994 - 3/31/1994
600 - 1000



WIND SPEED CLASSES (MPS)

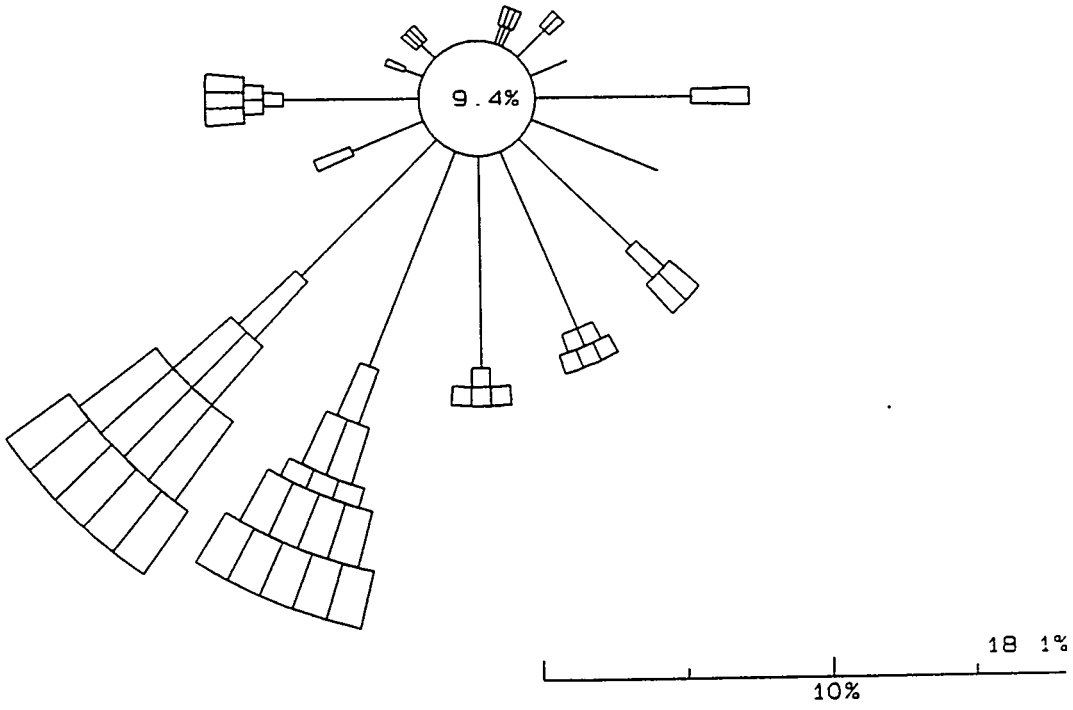
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
4/ 1/1994 - 4/30/1994
600 - 1000

N



WIND SPEED CLASSES (MPS)

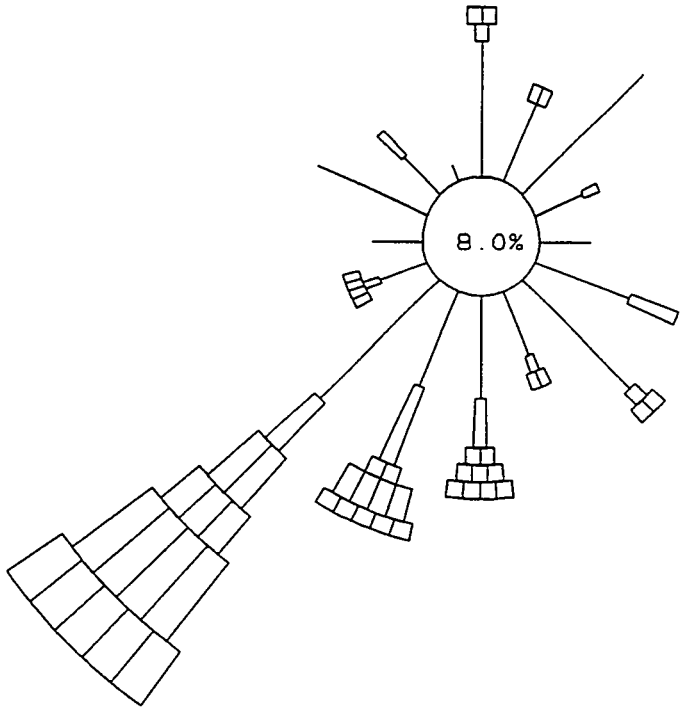
CALM	0	WS <= 5
1	1	5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8 5< WS <=10 8
6	6	10 8< WS

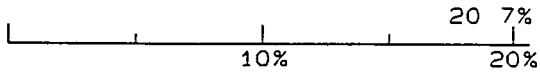
99.9% DATA RECOVERED
OF WHICH 20.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
5/ 1/1994 - 5/31/1994
600 - 1000

N





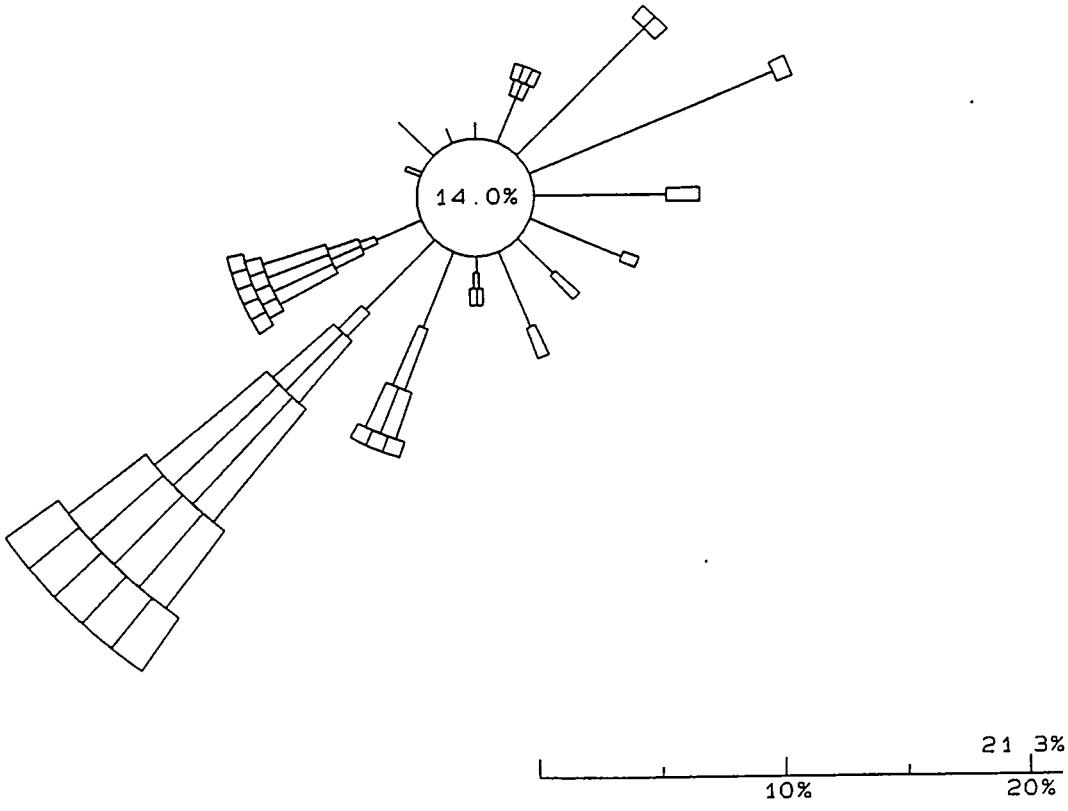
WIND SPEED CLASSES (MPS)

CALM	o		WS <= 5
1	I	5<	WS <= 1.8
2	□	1 8<	WS <= 3.3
3	□□	3 3<	WS <= 5 4
4	□□□	5 4<	WS <= 8.5
5	□□□□	8.5<	WS <=10.8
6	□□□□□	10.8<	WS

96.9% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
6/ 1/1994 - 6/30/1994
600 - 1000



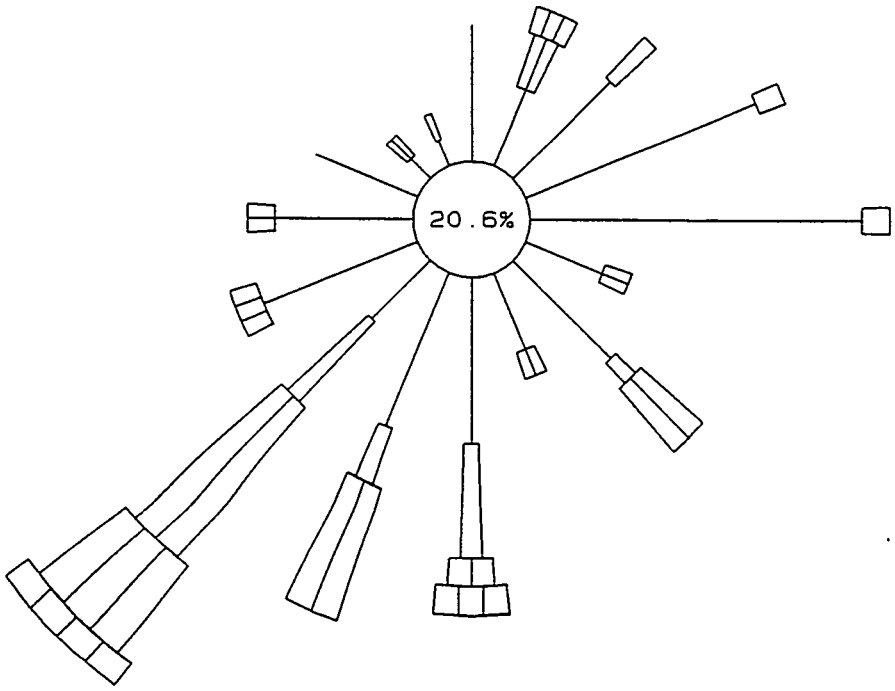
WIND SPEED CLASSES (MPS)

CALM	0	WS <= 5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	0	3 3< WS <= 5.4
4	0	5 4< WS <= 8 5
5	0	8.5< WS <=10.8
6	0	10.8< WS

100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
7/ 1/1994 - 7/31/1994
600 - 1000



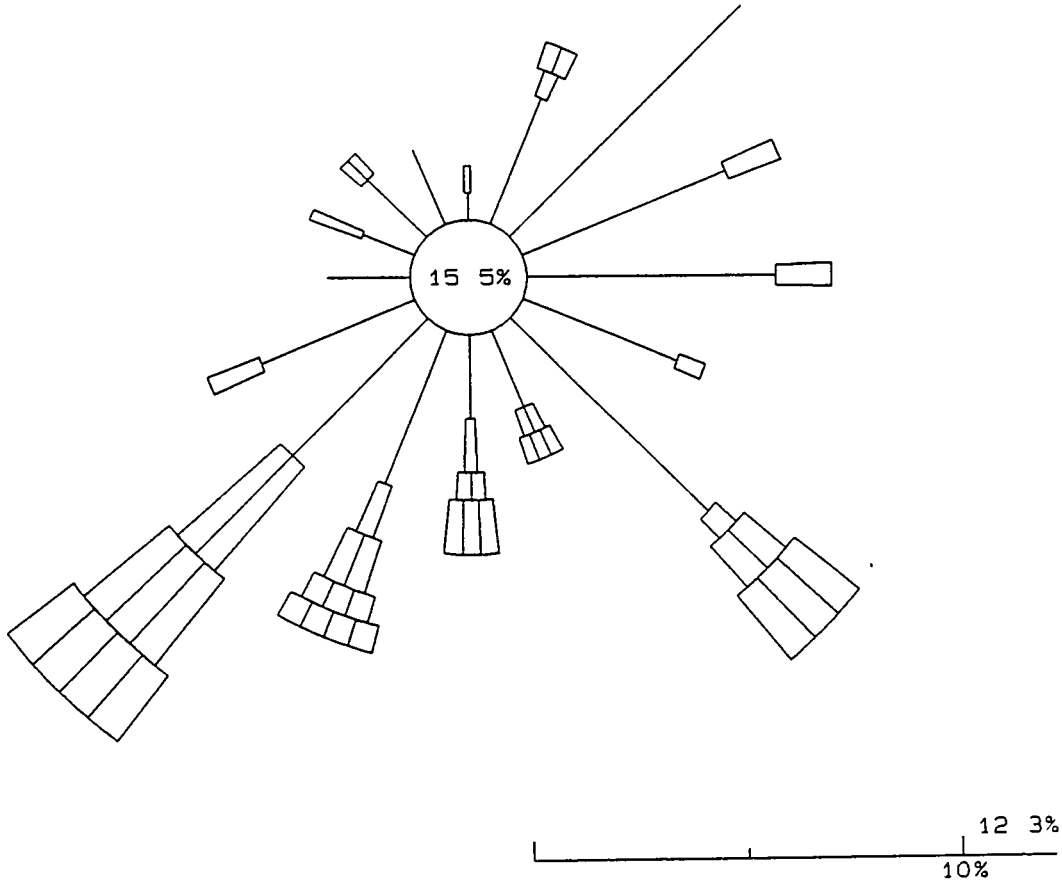
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
8/ 1/1994 - 8/31/1994
600 - 1000



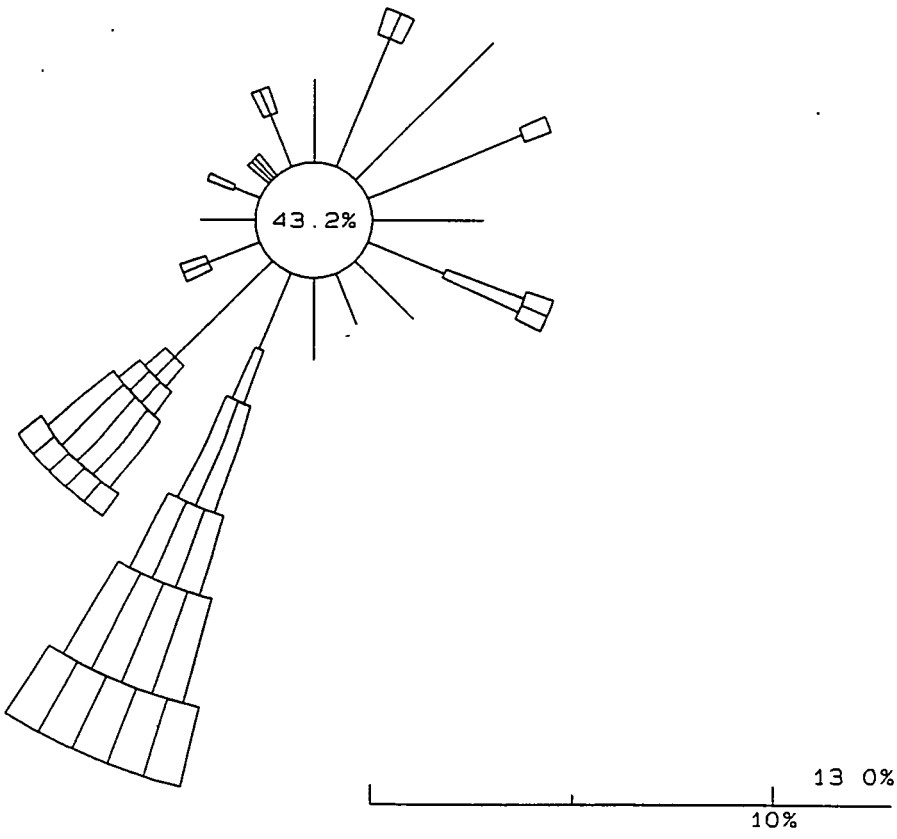
WIND SPEED CLASSES (MPS)

CALM	0		WS <=	5	
1		5<	WS <=	1.8	
2		1	8< WS <=	3.3	
3		3	3< WS <=	5	4
4		5	4< WS <=	8	5
5		8	5< WS <=	10	8
6		10	8< WS		

100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
9/ 1/1994 - 9/30/1994
600 - 1000



WIND SPEED CLASSES (MPS)

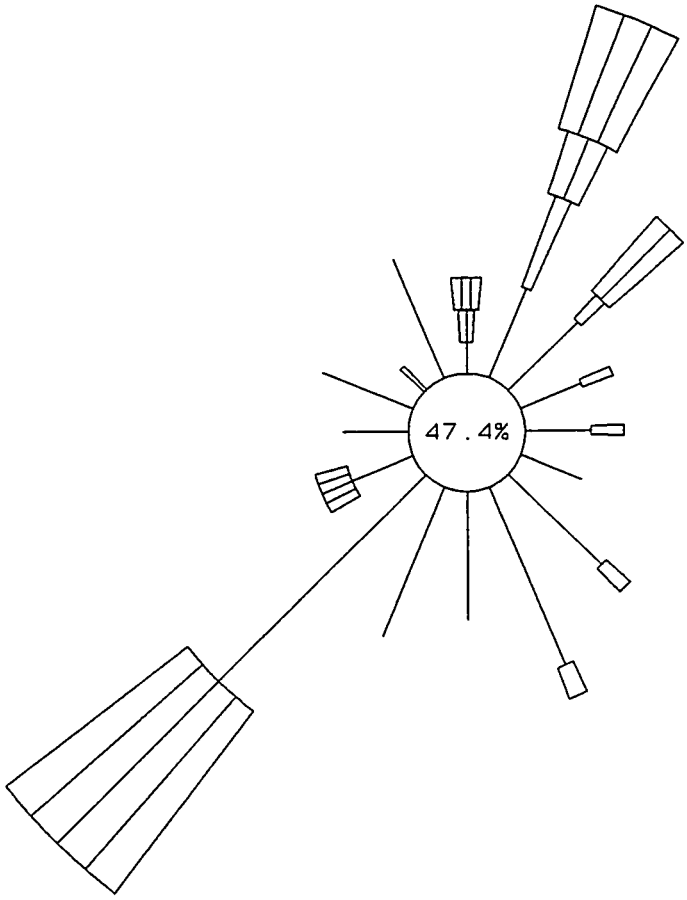
CALM	o		WS <= 5
1	ı	5<	WS <= 1 8
2	□	1 8<	WS <= 3 3
3	□□	3 3<	WS <= 5.4
4	□□□	5 4<	WS <= 8 5
5	□□□□	8 5<	WS <=10.8
6	□□□□□	10.8<	WS

99.2% DATA RECOVERED
OF WHICH 20.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
10/ 1/1994 - 10/31/1994
600 - 1000

N



10 5%
10%

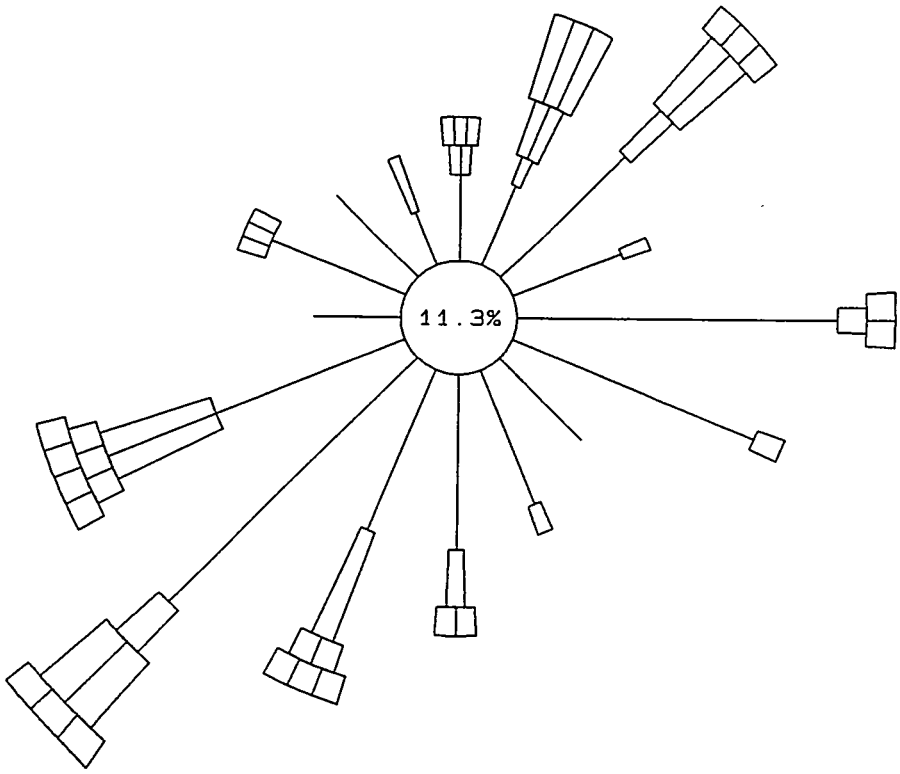
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

98.5% DATA RECOVERED
OF WHICH 20.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
11/ 1/1994 - 11/30/1994
600 - 1000



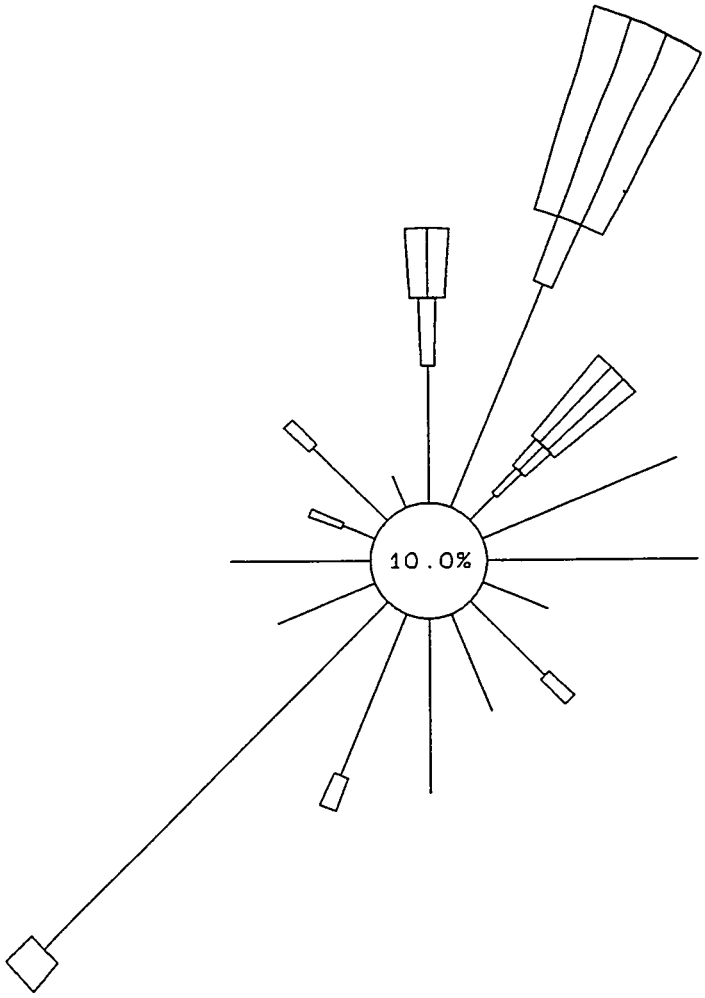
WIND SPEED CLASSES (MPS)

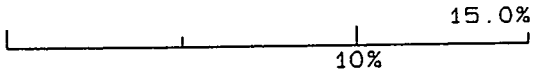
CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

99.7% DATA RECOVERED
OF WHICH 20.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
12/ 1/1994 - 12/31/1994
600 - 1000





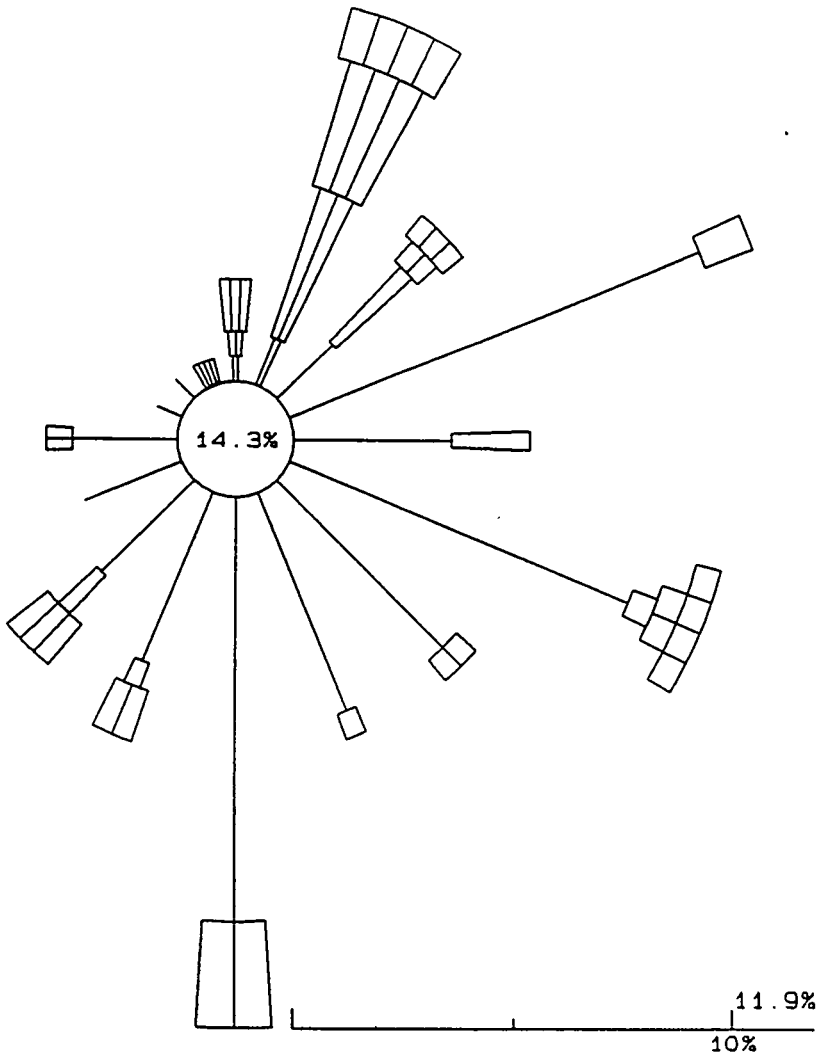
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

65.1% DATA RECOVERED
OF WHICH 20.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
1/ 1/1994 - 1/31/1994
1000 - 1600



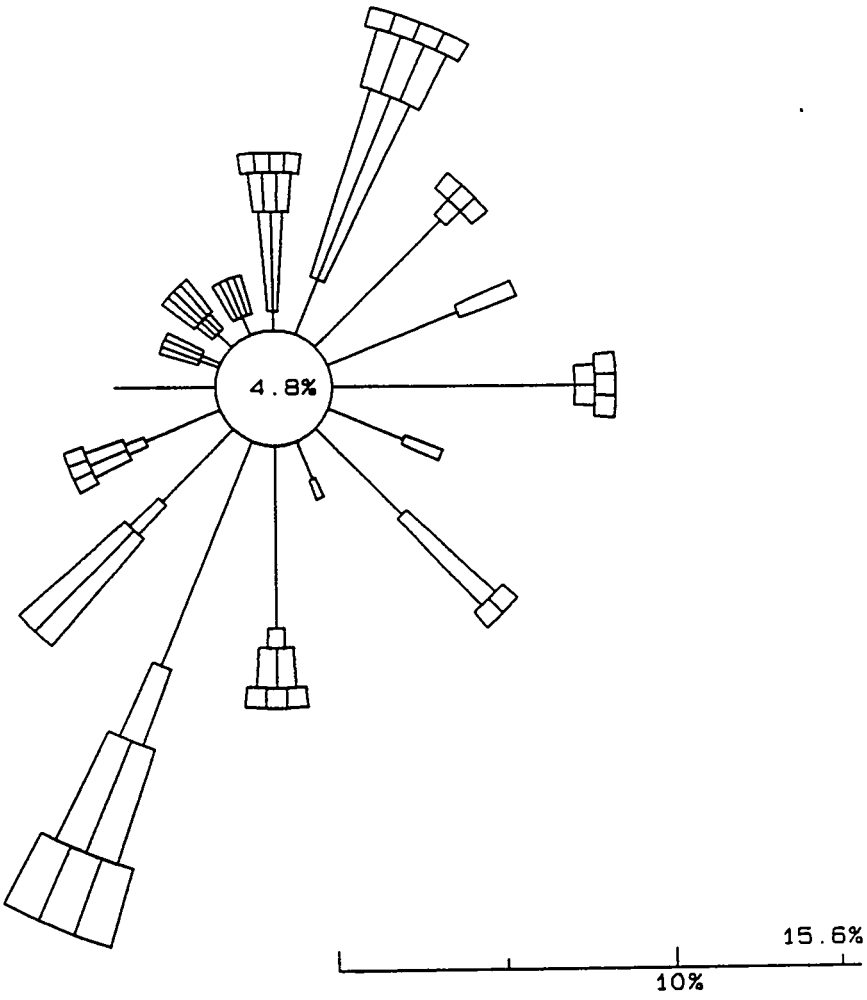
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

78.0% DATA RECOVERED
OF WHICH 29.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
2/ 1/1994 - 2/28/1994
1000 - 1600



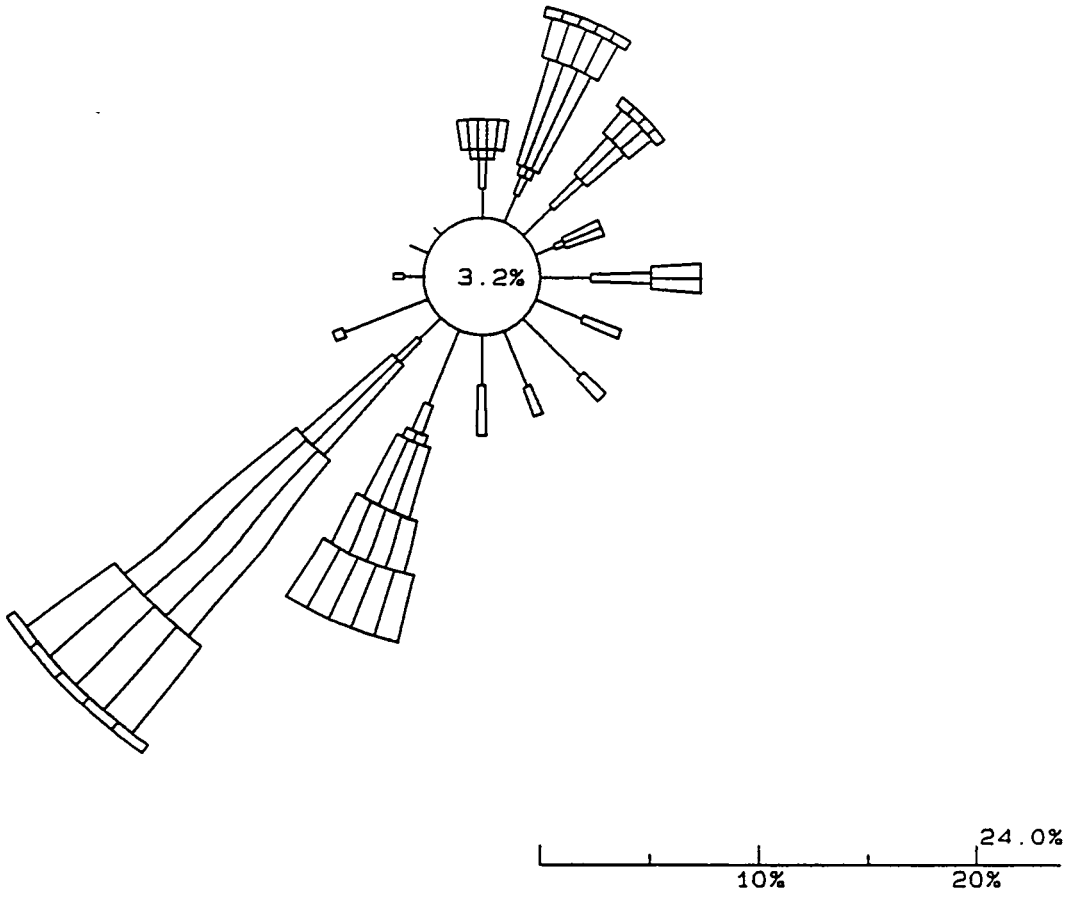
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

85.4% DATA RECOVERED
OF WHICH 29.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
3/ 1/1994 - 3/31/1994
1000 - 1600



WIND SPEED CLASSES (MPS)

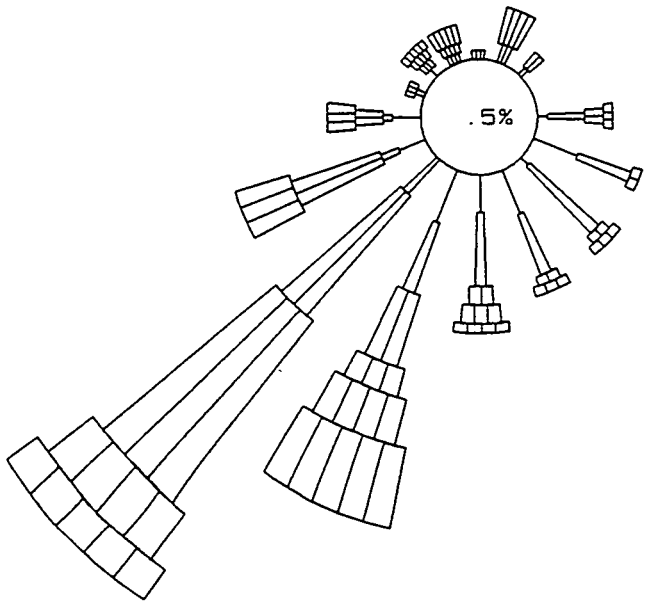
CALM	o	WS <= .5
1	'	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

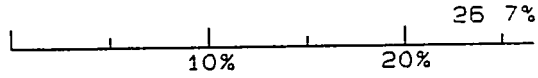
100.0% DATA RECOVERED
OF WHICH 29.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
4/ 1/1994 - 4/30/1994
1000 - 1600

N





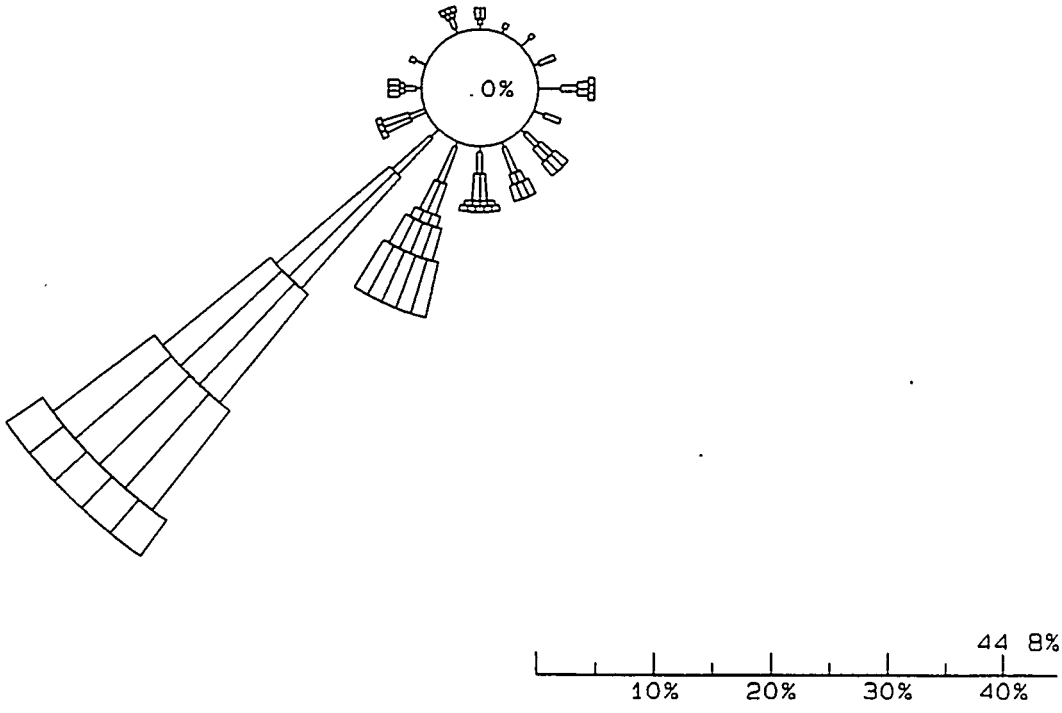
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	00	3.3< WS <= 5 4
4	000	5.4< WS <= 8 5
5	0000	8.5< WS <=10.8
6	00000	10 8< WS

99.9% DATA RECOVERED
OF WHICH 29.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
5/ 1/1994 - 5/31/1994
1000 - 1600



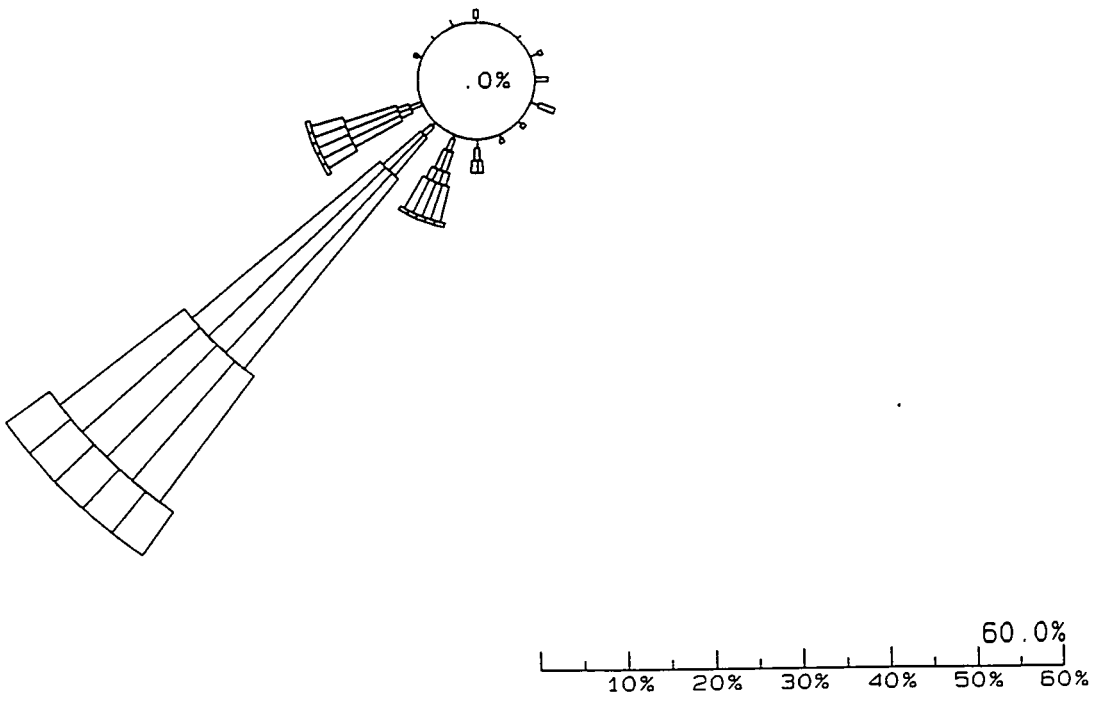
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.9% DATA RECOVERED
OF WHICH 29.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
6/ 1/1994 - 6/30/1994
1000 - 1600



WIND SPEED CLASSES (MPS)

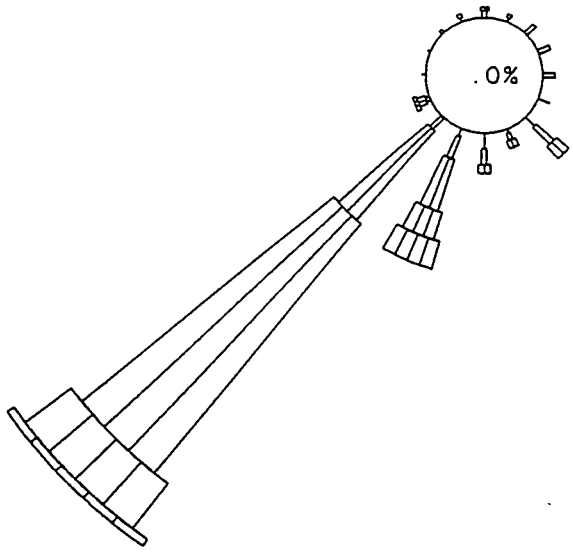
CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▭	3.3< WS <= 5.4
4	▭▭	5.4< WS <= 8.5
5	▭▭▭	8 5< WS <=10 8
6	▭▭▭▭	10 8< WS

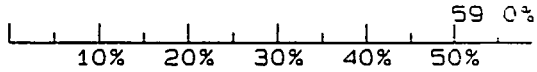
100.0% DATA RECOVERED
OF WHICH 29.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
7/ 1/1994 - 7/31/1994
1000 - 1600

N





WIND SPEED CLASSES (MPS)

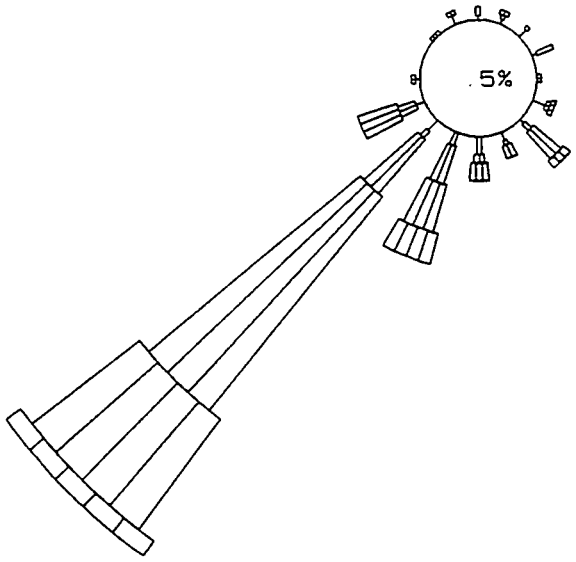
CALM	0	WS <= 5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	00	3.3< WS <= 5.4
4	000	5.4< WS <= 8 5
5	0000	8 5< WS <=10 8
6	00000	10 8< WS

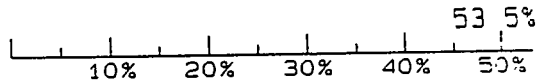
100 0% DATA RECOVERED
OF WHICH 29.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
8/ 1/1994 - 8/31/1994
1000 - 1600

N





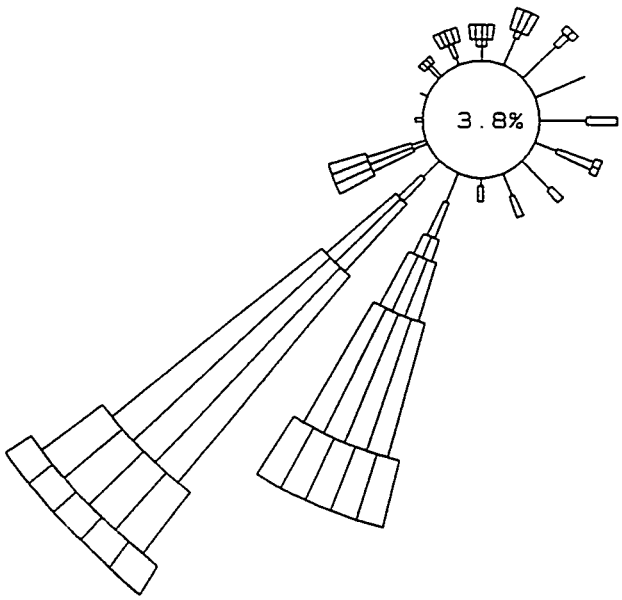
WIND SPEED CLASSES (MPS)

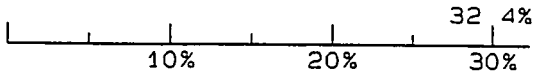
CALM	0	WS <= 5
1	1	5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3 3< WS <= 5 4
4	4	5 4< WS <= 8.5
5	5	8 5< WS <=10 8
6	6	10 8< WS

100.0% DATA RECOVERED
OF WHICH 29.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
9/ 1/1994 - 9/30/1994
1000 - 1600





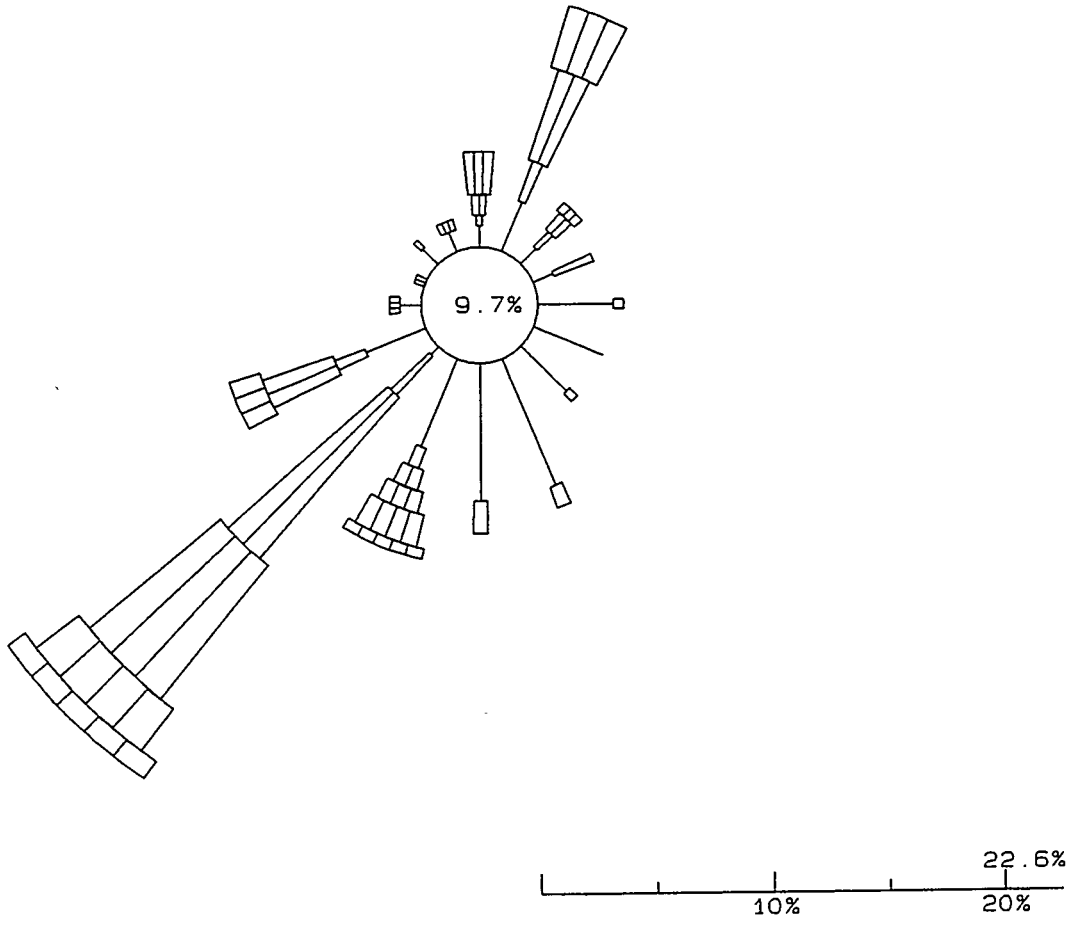
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

99.2% DATA RECOVERED
OF WHICH 29.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
10/ 1/1994 - 10/31/1994
1000 - 1600



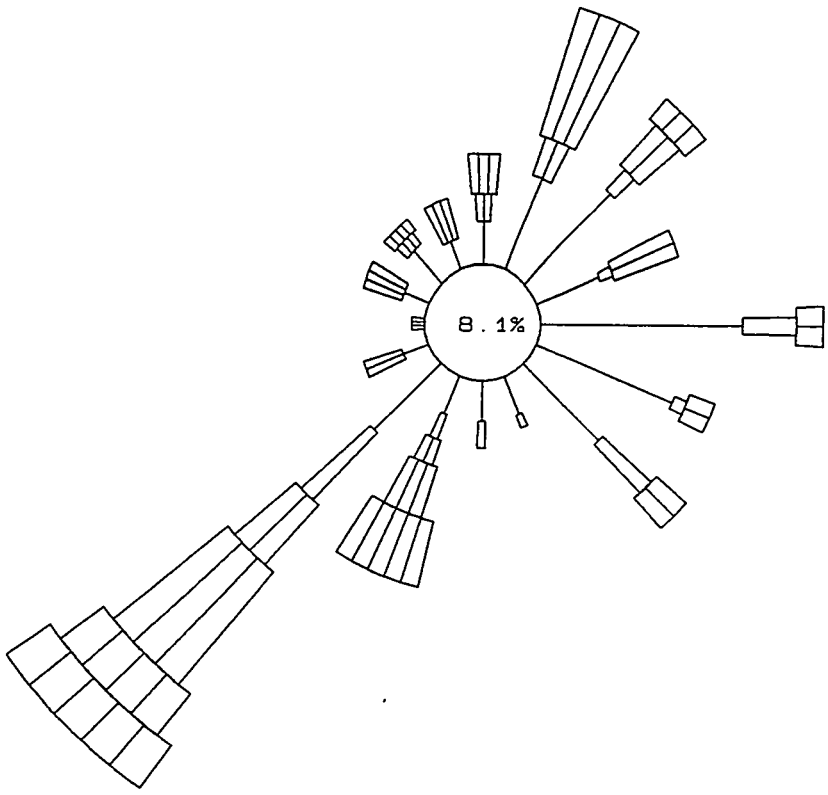
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

98.5% DATA RECOVERED
OF WHICH 29.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
11/ 1/1994 - 11/30/1994
1000 - 1600



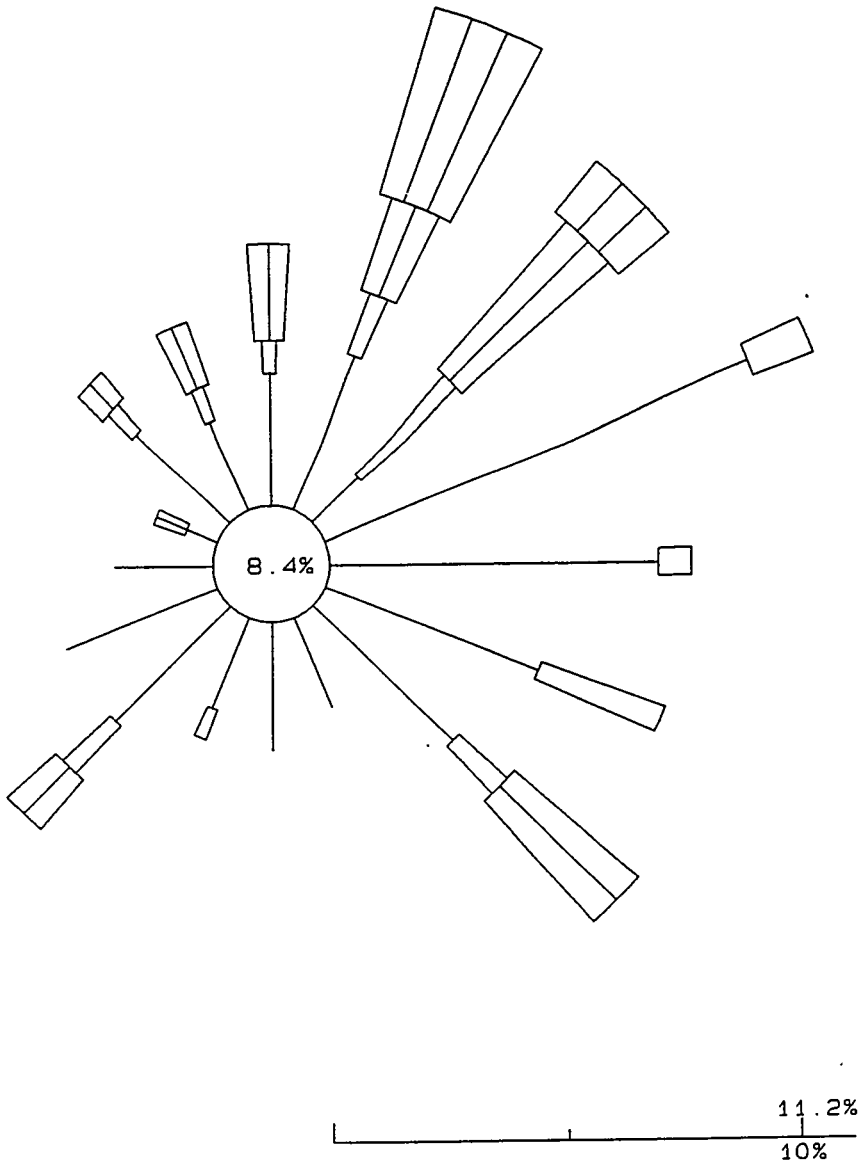
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▭	3.3< WS <= 5.4
4	▭▭	5.4< WS <= 8.5
5	▭▭▭	8.5< WS <=10.8
6	▭▭▭▭	10.8< WS

99.7% DATA RECOVERED
OF WHICH 29.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
12/ 1/1994 - 12/31/1994
1000 - 1600



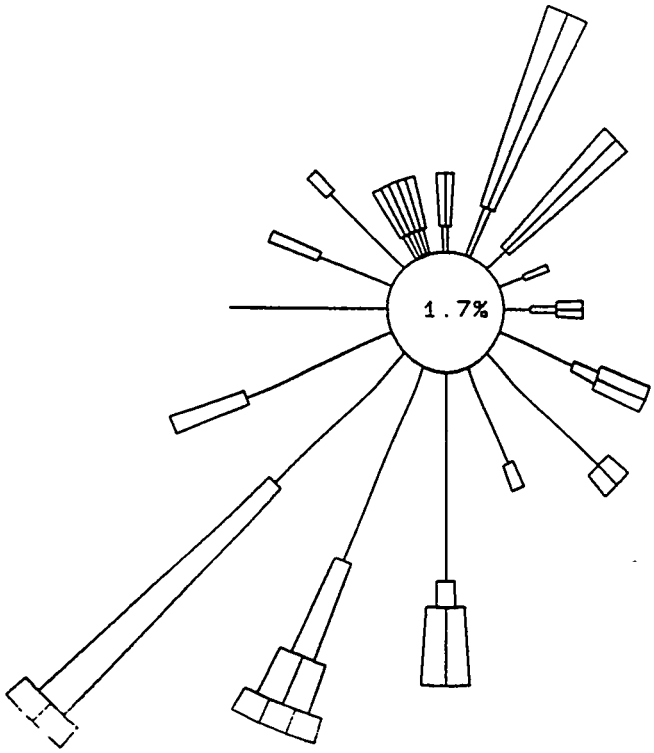
WIND SPEED CLASSES (MPS)

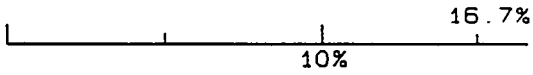
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

65.1% DATA RECOVERED
OF WHICH 29.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
1/ 1/1994 - 1/31/1994
1600 - 2000





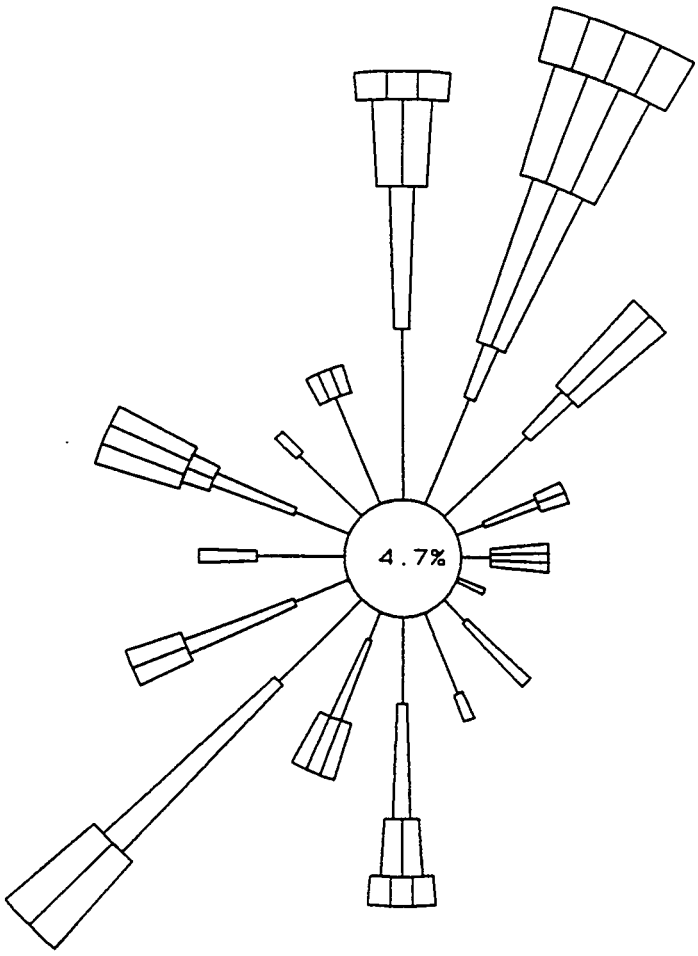
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10 8< WS

78.0% DATA RECOVERED
OF WHICH 20.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
2/ 1/1994 - 2/28/1994
1600 - 2000



WIND SPEED CLASSES (MPS)

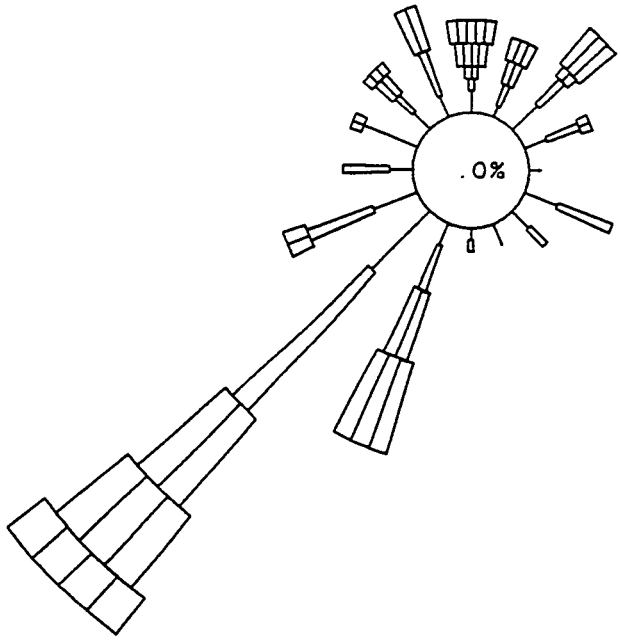
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

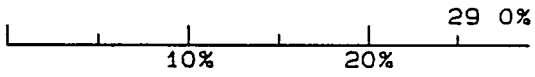
85.4% DATA RECOVERED
OF WHICH 22.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
3/ 1/1994 - 3/31/1994
1600 - 2000

N





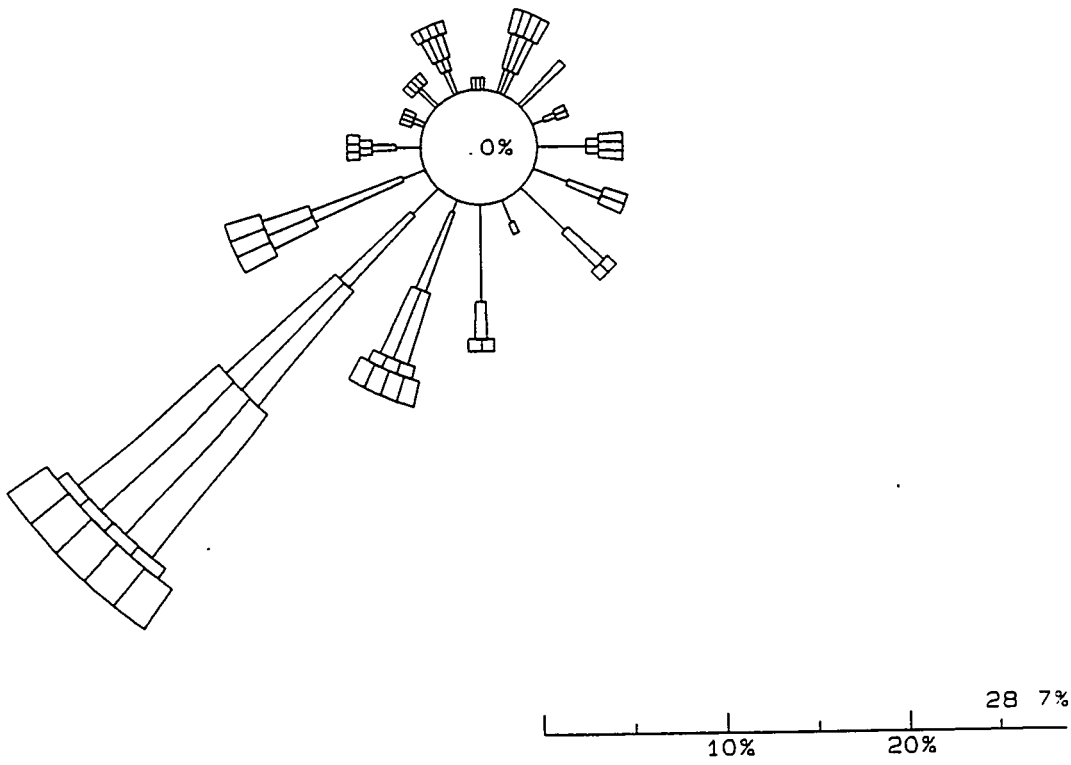
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
4/ 1/1994 - 4/30/1994
1600 - 2000



WIND SPEED CLASSES (MPS)

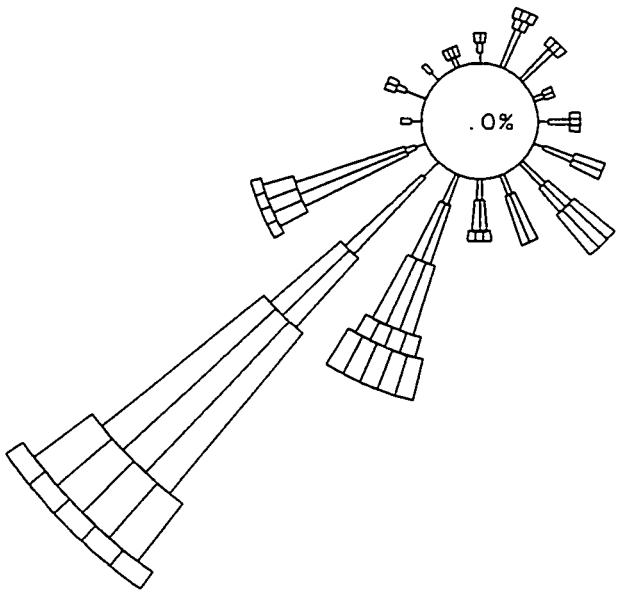
CALM	0	WS <= 5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	0	3 3< WS <= 5.4
4	0	5.4< WS <= 8.5
5	0	8.5< WS <=10 8
6	0	10.8< WS

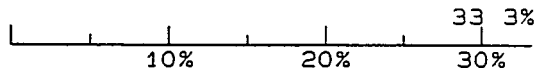
99.9% DATA RECOVERED
OF WHICH 20.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
5/ 1/1994 - 5/31/1994
1600 - 2000

N





WIND SPEED CLASSES (MPS)

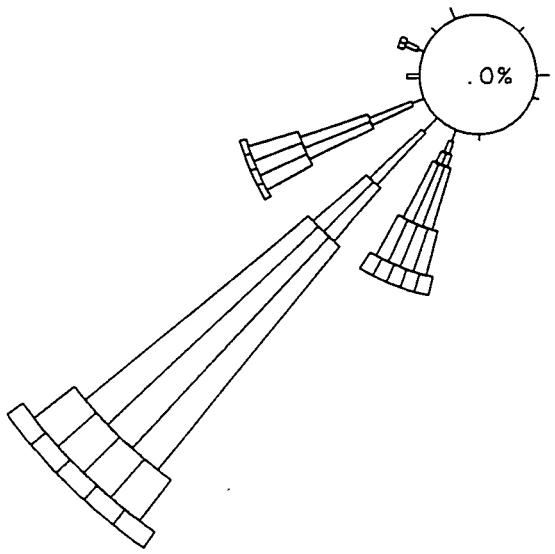
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

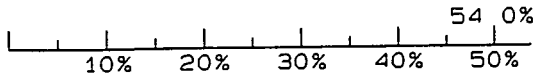
96.9% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
6/ 1/1994 - 6/30/1994
1600 - 2000

N





WIND SPEED CLASSES (MPS)

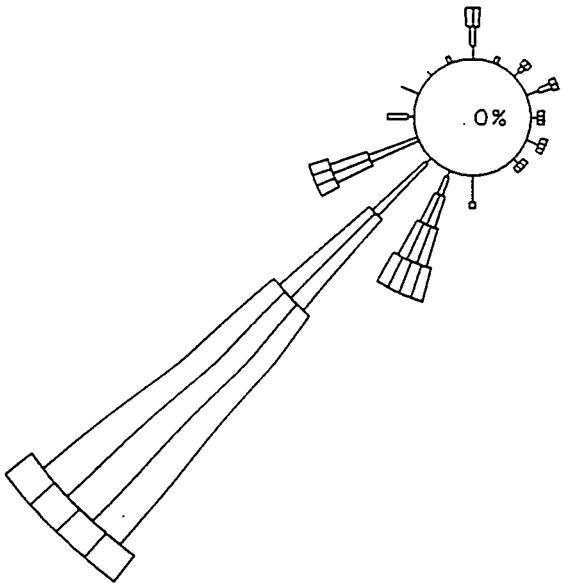
CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

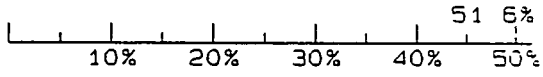
100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
7/ 1/1994 - 7/31/1994
1600 - 2000

N.





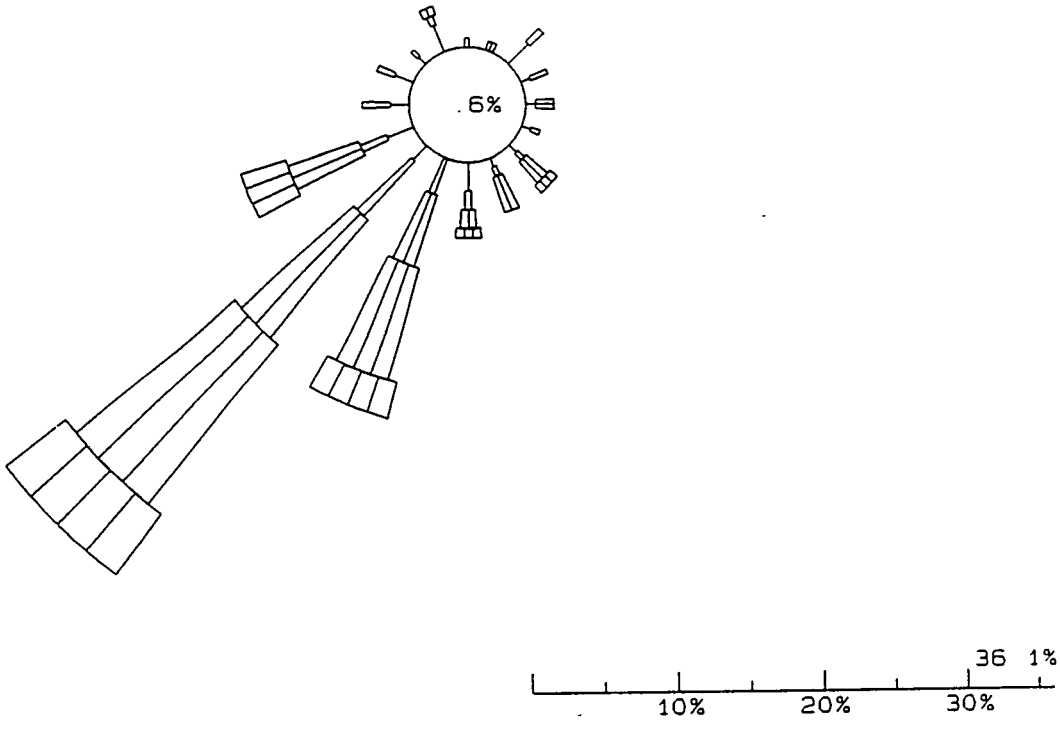
WIND SPEED CLASSES (MPS)

CALM	0	WS <= 5
1	1	5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	0	3 3< WS <= 5.4
4	0	5 4< WS <= 8.5
5	0	8.5< WS <=10.8
6	0	10 8< WS

100.0% DATA RECOVERED
OF WHICH 20 8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
8/ 1/1994 - 8/31/1994
1600 - 2000



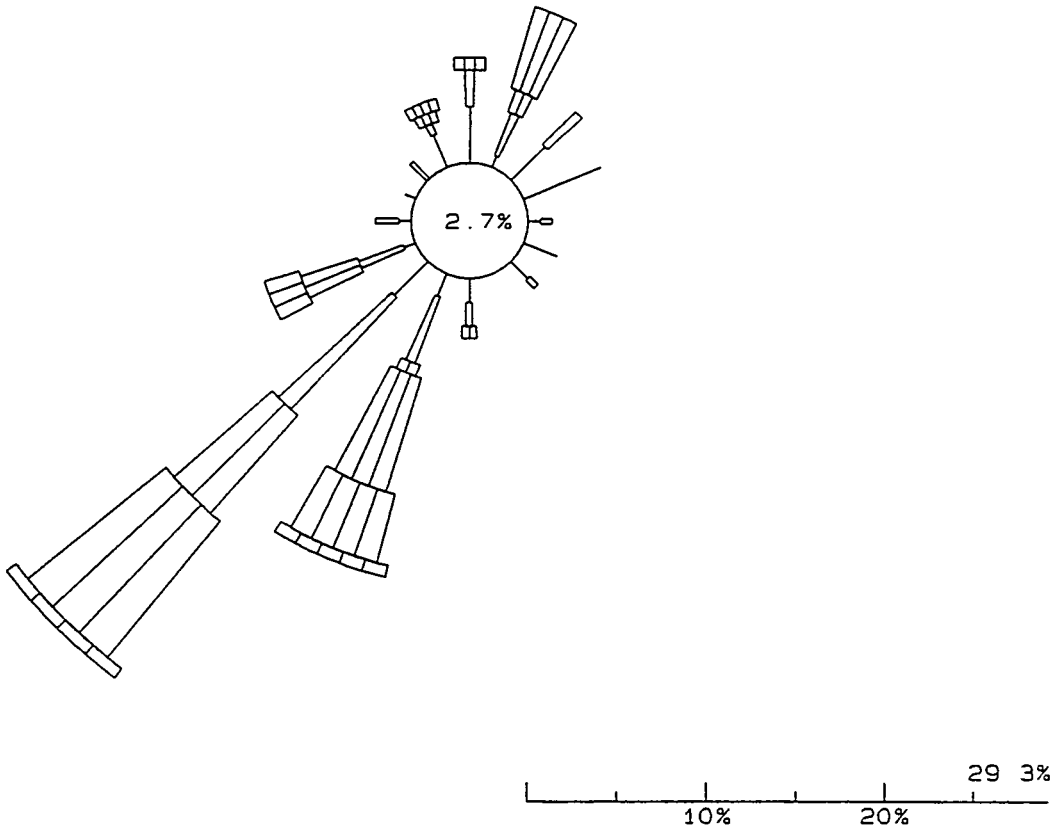
WIND SPEED CLASSES (MPS)

CALM	0			WS	<=	5
1		.5	< WS	<=	1	8
2		1.8	< WS	<=	3.3	
3		3	3< WS	<=	5	4
4		5	4< WS	<=	8.5	
5		8	5< WS	<=	10	8
6		10	8< WS			

100 0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
9/ 1/1994 - 9/30/1994
1600 - 2000



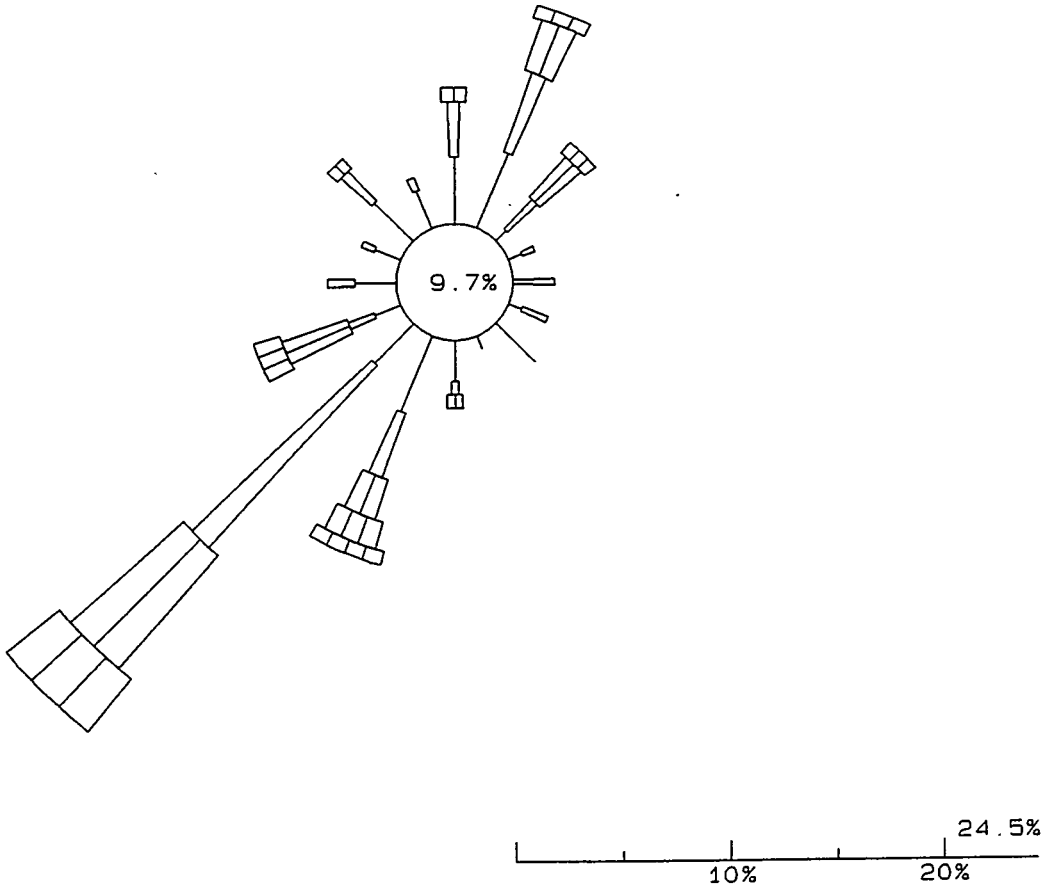
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3 3
3	0	3 3< WS <= 5 4
4	0	5 4< WS <= 8 5
5	0	8 5< WS <=10 8
6	0	10.8< WS

99 2% DATA RECOVERED
OF WHICH 21.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
10/ 1/1994 - 10/31/1994
1600 - 2000



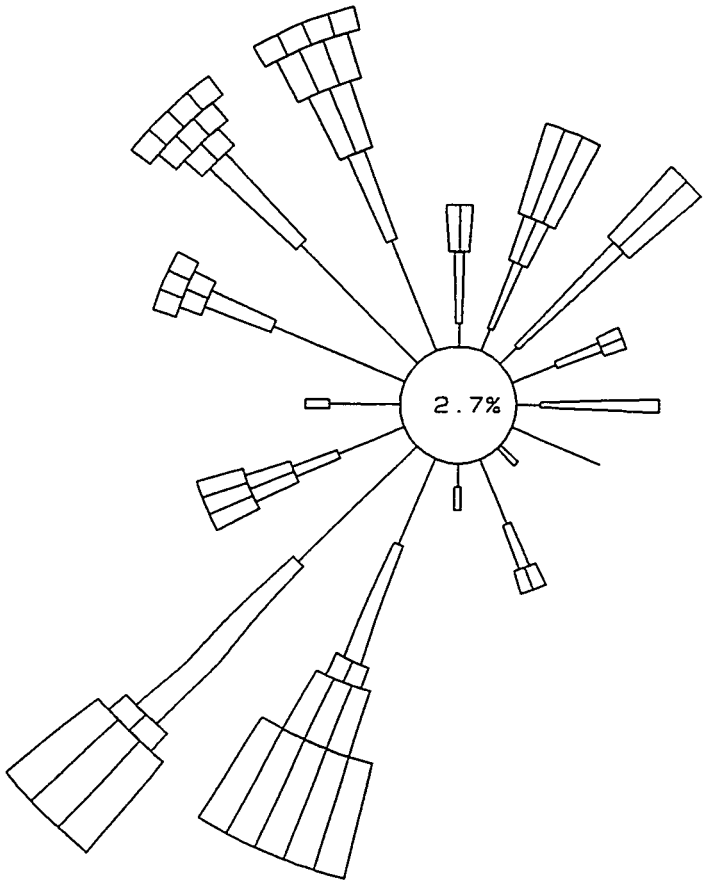
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	⊟	3.3< WS <= 5.4
4	⊟⊟	5.4< WS <= 8.5
5	⊟⊟⊟	8.5< WS <=10.8
6	⊟⊟⊟⊟	10.8< WS

98.5% DATA RECOVERED
OF WHICH 21.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
11/ 1/1994 - 11/30/1994
1600 - 2000



WIND SPEED CLASSES (MPS)

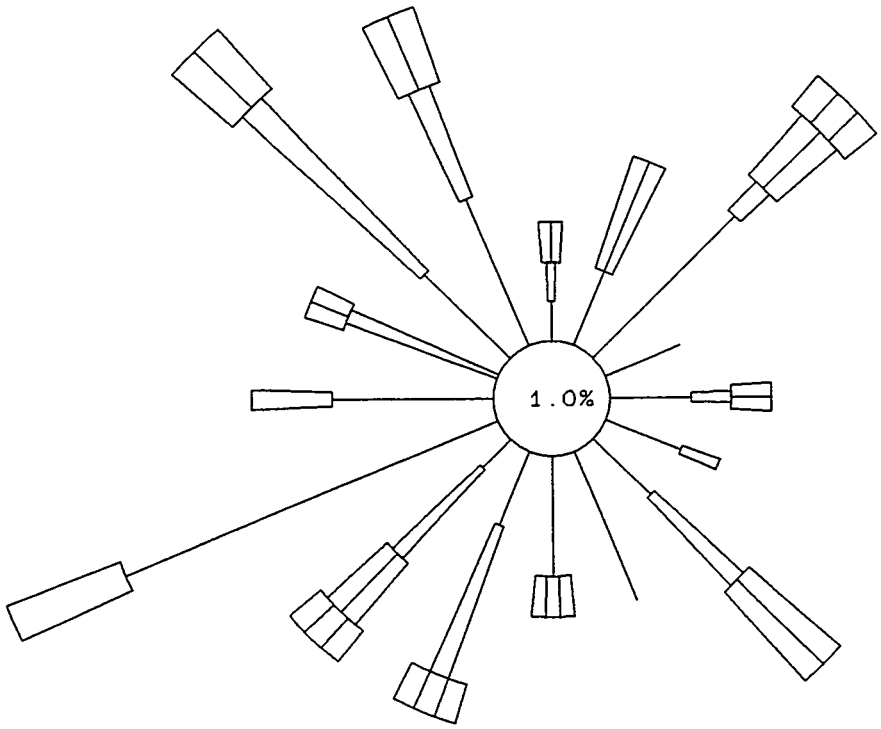
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.7% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
12/ 1/1994 - 12/31/1994
1600 - 2000

N



12.9%
10%

WIND SPEED CLASSES (MPS)

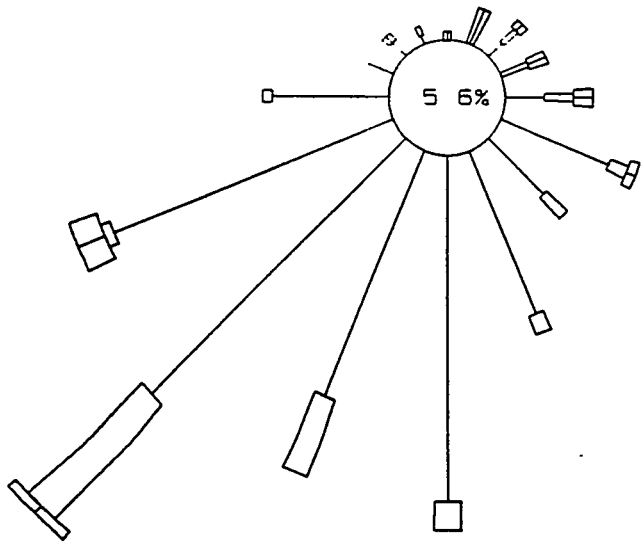
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

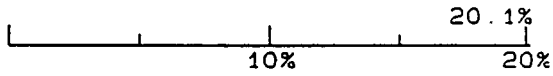
65.1% DATA RECOVERED
OF WHICH 20.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
1/ 1/1994 - 1/31/1994
2000 - 600

N





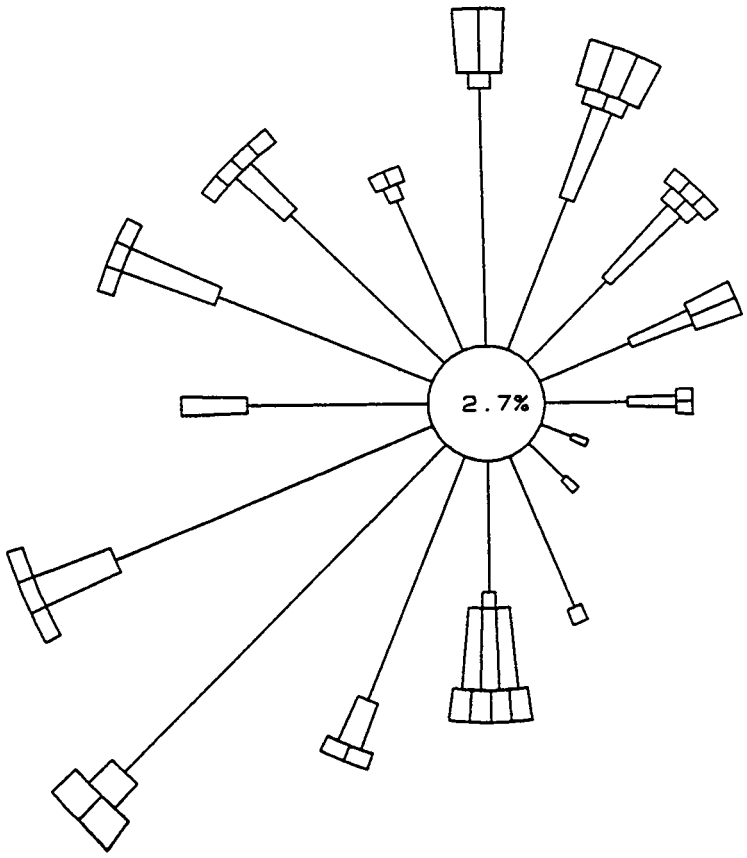
WIND SPEED CLASSES (MPS)

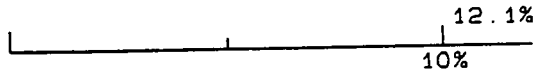
CALM	o	WS <= 5
1	I	5< WS <= 1 8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

78.0% DATA RECOVERED
OF WHICH 46.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
2/ 1/1994 - 2/28/1994
2000 - 600





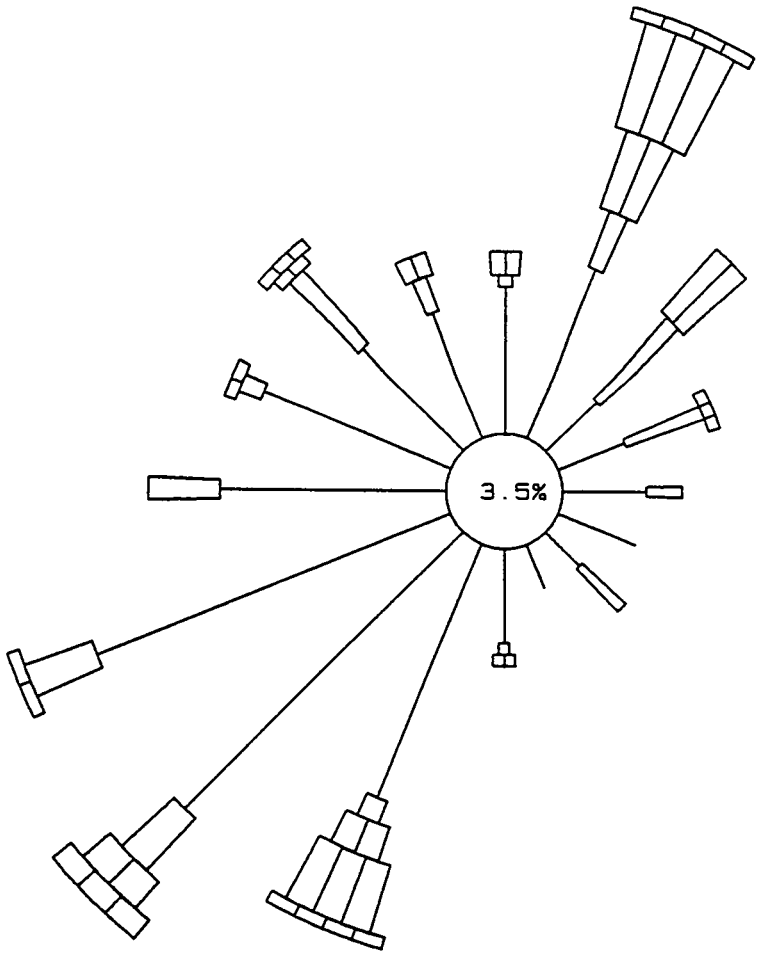
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

85.4% DATA RECOVERED
OF WHICH 46.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
3/ 1/1994 - 3/31/1994
2000 - 600



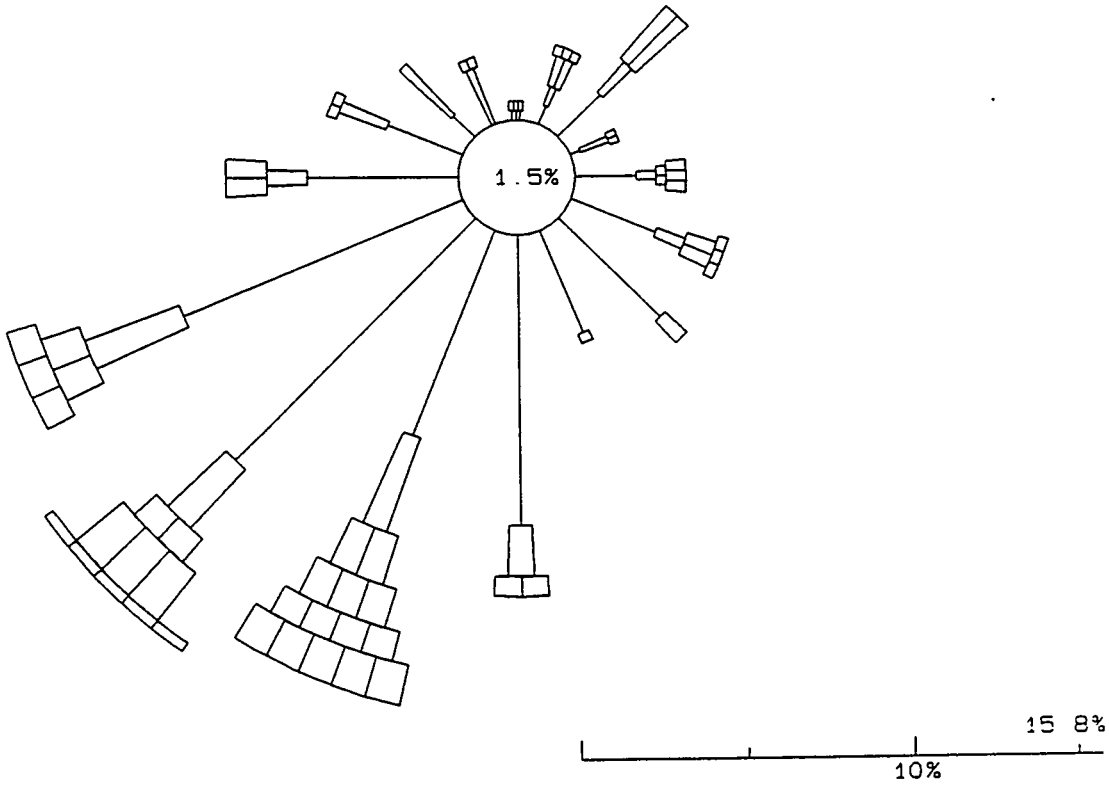
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

100.0% DATA RECOVERED
OF WHICH 45.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
4/ 1/1994 - 4/30/1994
2000 - 600



WIND SPEED CLASSES (MPS)

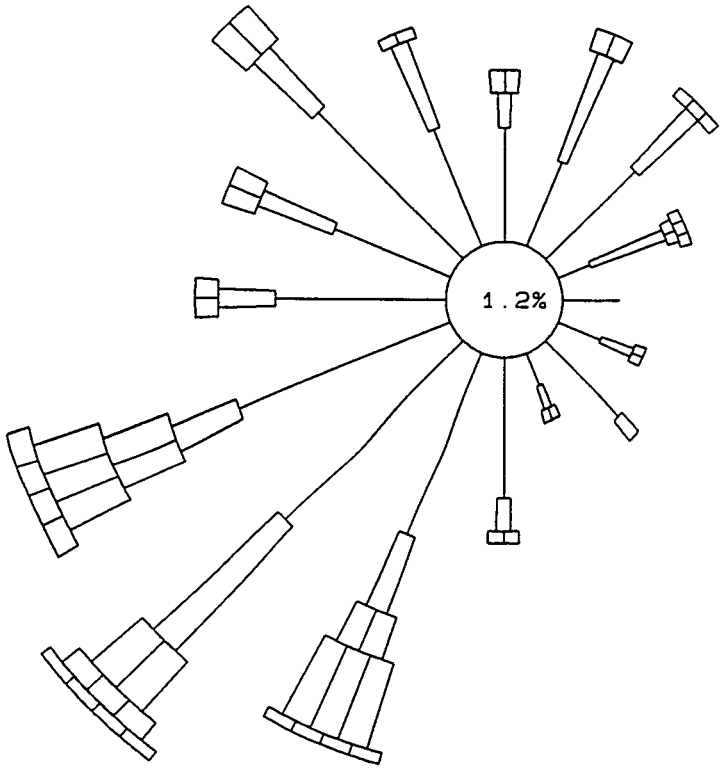
CALM	o	WS <= 5
1	I	5< WS <= 1.8
2	O	1.8< WS <= 3.3
3	⊡	3.3< WS <= 5.4
4	⊡⊡	5 4< WS <= 8.5
5	⊡⊡⊡	8.5< WS <=10.8
6	⊡⊡⊡⊡	10 8< WS

99.9% DATA RECOVERED
OF WHICH 45.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
5/ 1/1994 - 5/31/1994
2000 - 600

N



13 9%
10%

WIND SPEED CLASSES (MPS)

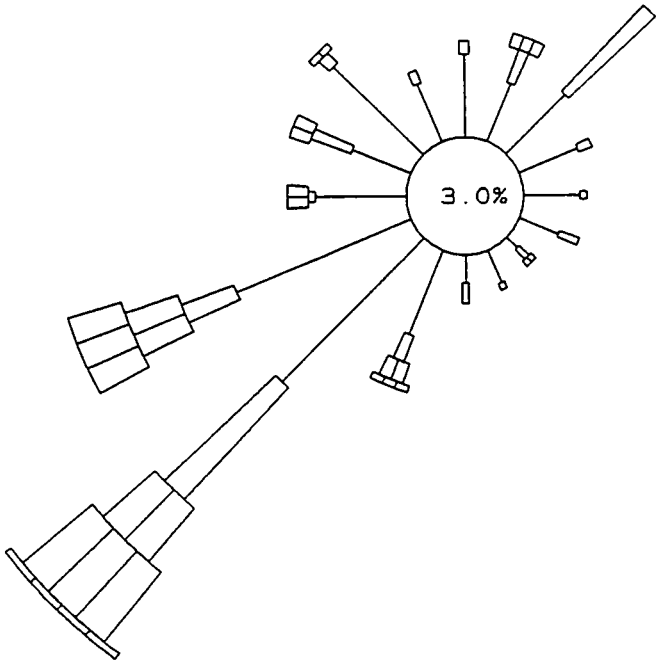
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5 4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.9% DATA RECOVERED
OF WHICH 45.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
6/ 1/1994 - 6/30/1994
2000 - 600

N



22 7%
10%
20%

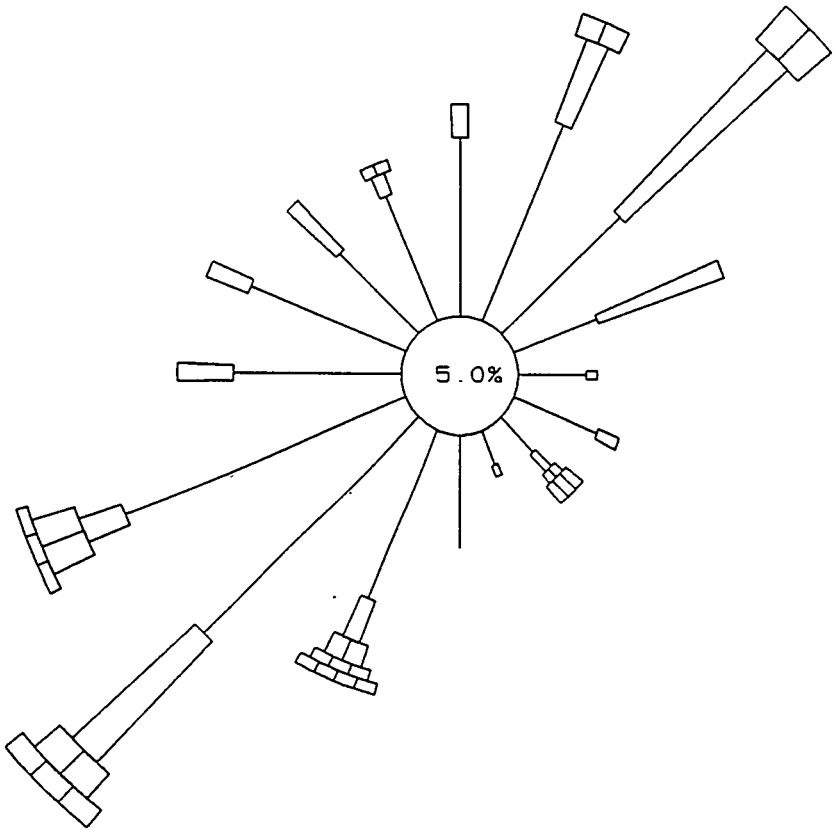
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

100.0% DATA RECOVERED
OF WHICH 45.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
7/ 1/1994 - 7/31/1994
2000 - 600



WIND SPEED CLASSES (MPS)

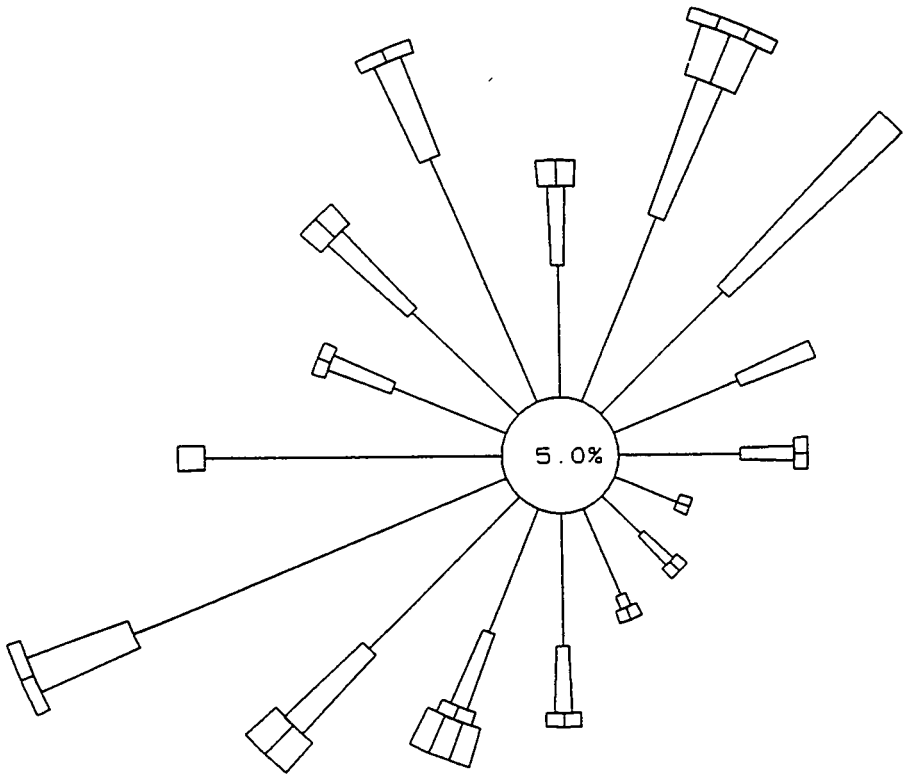
CALM	o	WS <= 5
1	I	5< WS <= 1.8
2	□	1 8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5 4< WS <= 8.5
5	□□□	8.5< WS <=10.8
6	□□□□	10 8< WS

100.0% DATA RECOVERED
OF WHICH 45.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
8/ 1/1994 - 8/31/1994
2000 - 600

N



11 4%
10%

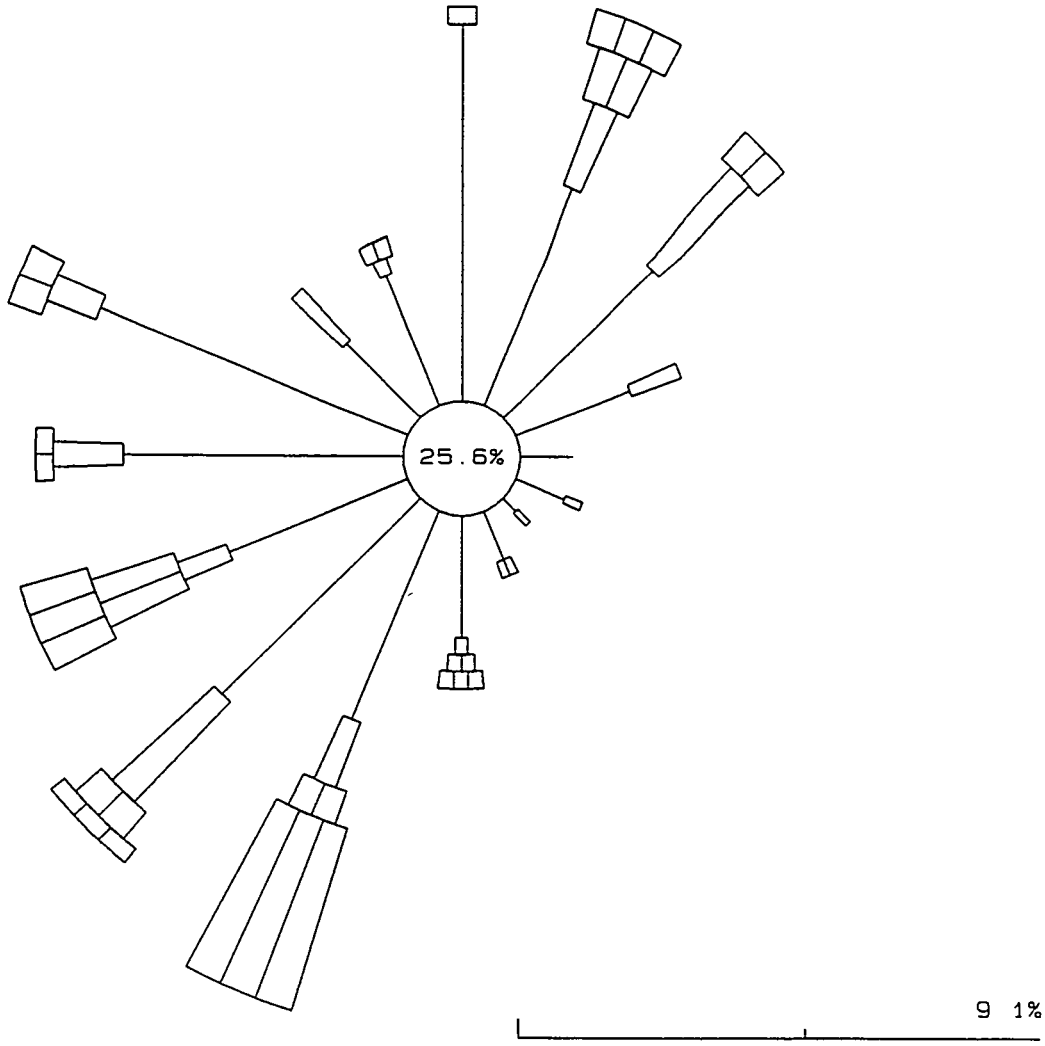
WIND SPEED CLASSES (MPS)

CALM	0		WS <= .5
1		.5<	WS <= 1 8
2		1.8<	WS <= 3 3
3		3.3<	WS <= 5 4
4		5 4<	WS <= 8 5
5		8.5<	WS <=10 8
6		10 8<	WS

100.0% DATA RECOVERED
OF WHICH 45.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
9/ 1/1994 - 9/30/1994
2000 - 600



WIND SPEED CLASSES (MPS)

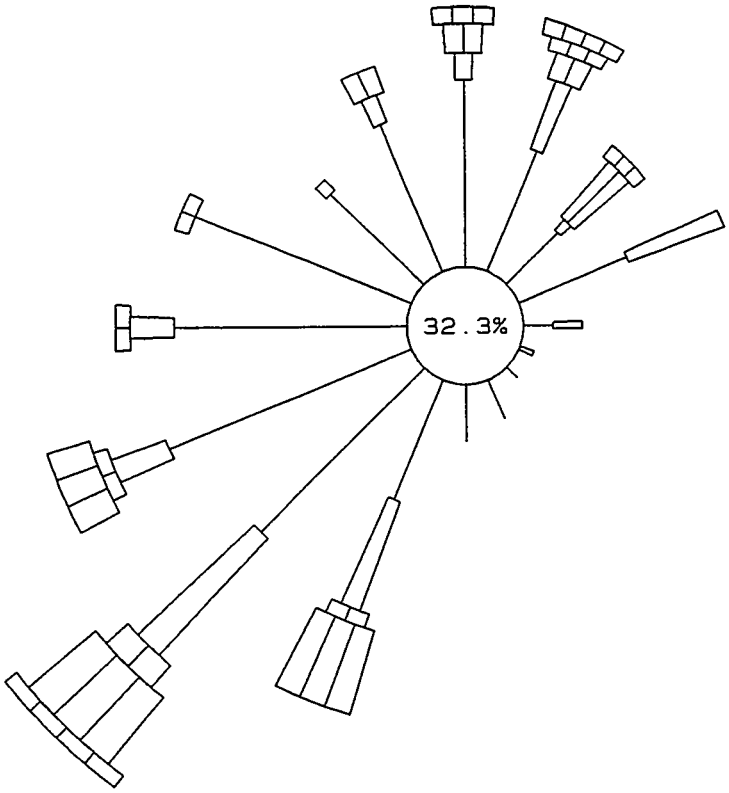
CALM	0		WS <= .5
1		.5<	WS <= 1 8
2		1.8<	WS <= 3 3
3		3 3<	WS <= 5 4
4		5.4<	WS <= 8 5
5		8 5<	WS <=10 8
6		10 8<	WS

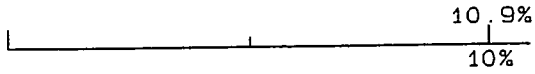
99.2% DATA RECOVERED
OF WHICH 45.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
10/ 1/1994 - 10/31/1994
2000 - 600

N





WIND SPEED CLASSES (MPS)

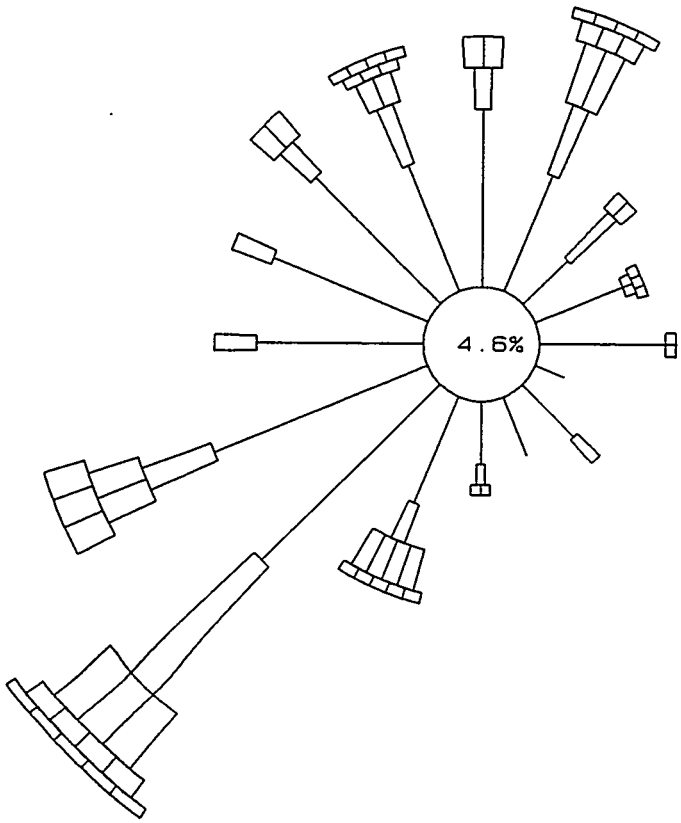
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

98.5% DATA RECOVERED
OF WHICH 45.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
11/ 1/1994 - 11/30/1994
2000 - 600

N



15.2%
10%

WIND SPEED CLASSES (MPS)

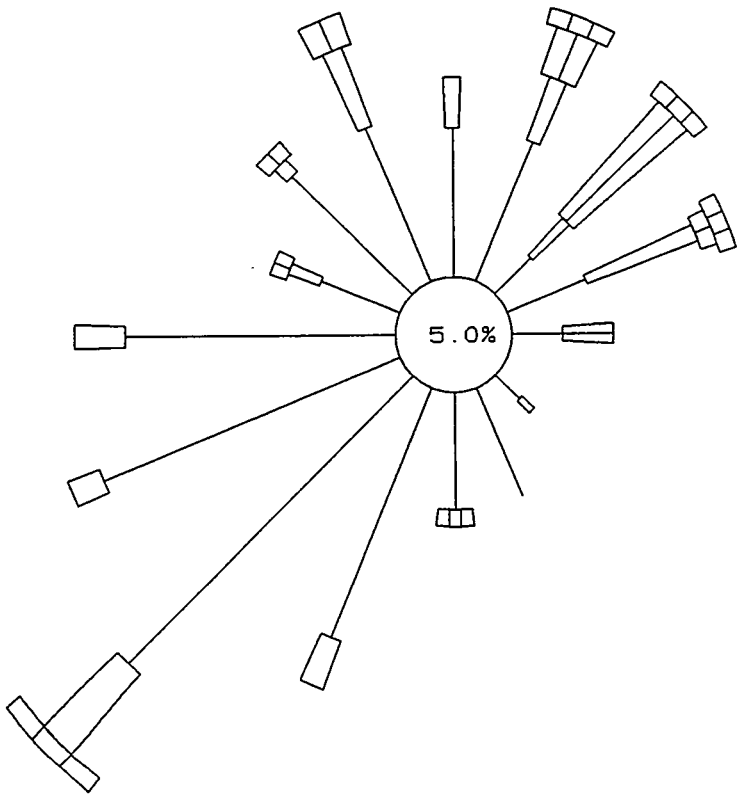
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.7% DATA RECOVERED
OF WHICH 45.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
12/ 1/1994 - 12/31/1994
2000 - 600

N



14.0%
10%

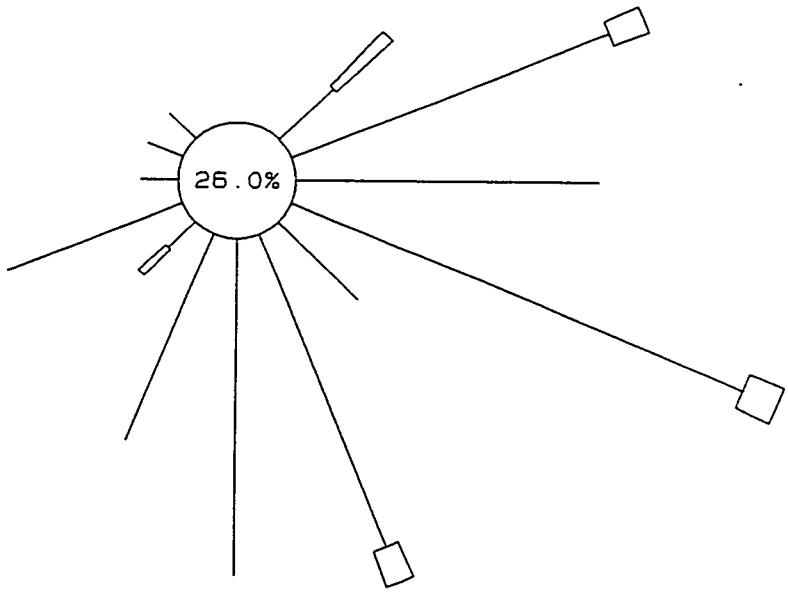
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

65.1% DATA RECOVERED
OF WHICH 45.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
1/ 1/1994 - 1/31/1994
0 - 2300

N



14 0%
10%

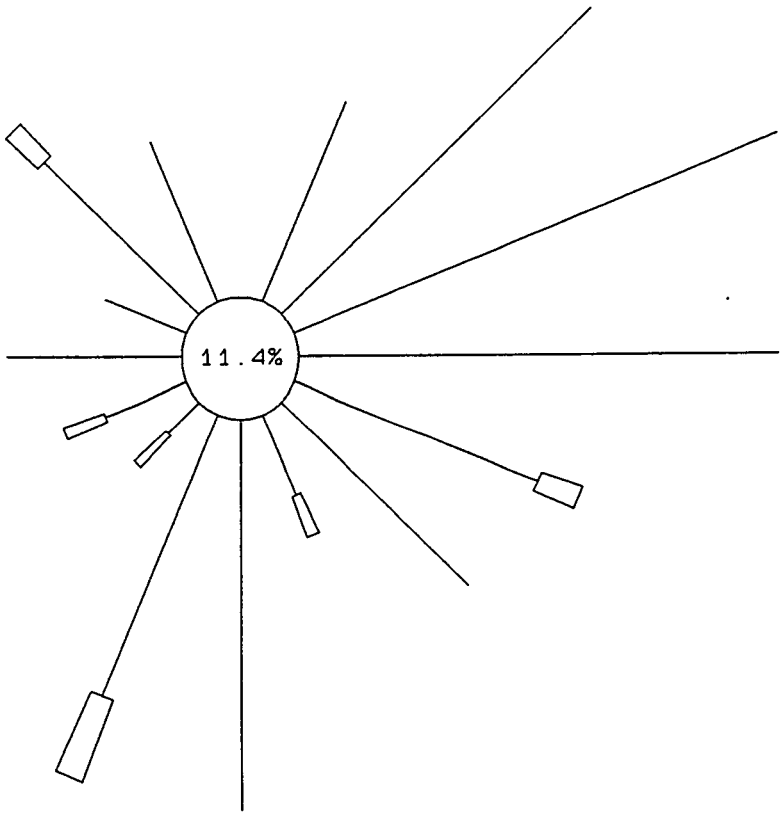
WIND SPEED CLASSES (MPS)

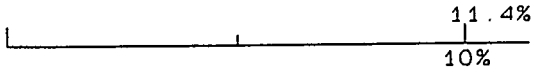
CALM	o	WS <= .5
1	!	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

78.0% DATA RECOVERED
OF WHICH 17.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
2/ 1/1994 - 2/28/1994
0 - 2300

N



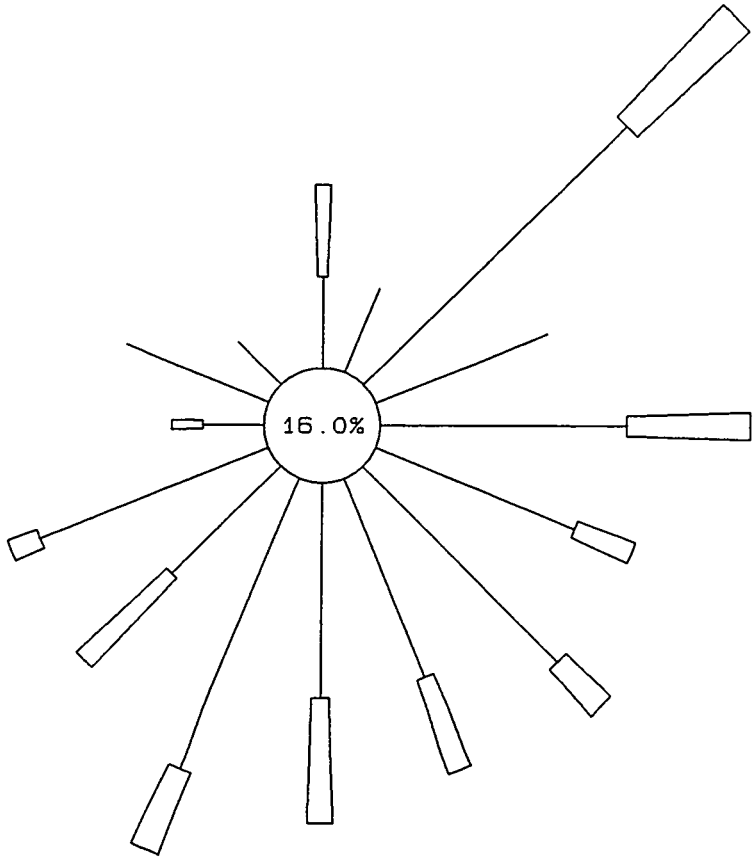


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

85.4% DATA RECOVERED
OF WHICH 18.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
3/ 1/1994 - 3/31/1994
0 - 2300



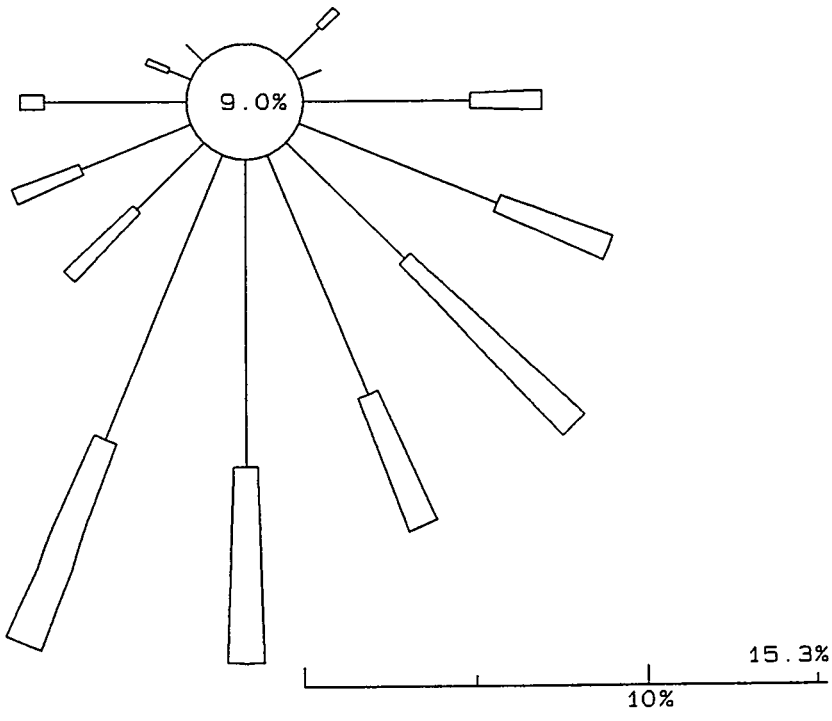
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 20.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
4/ 1/1994 - 4/30/1994
0 - 2300

N

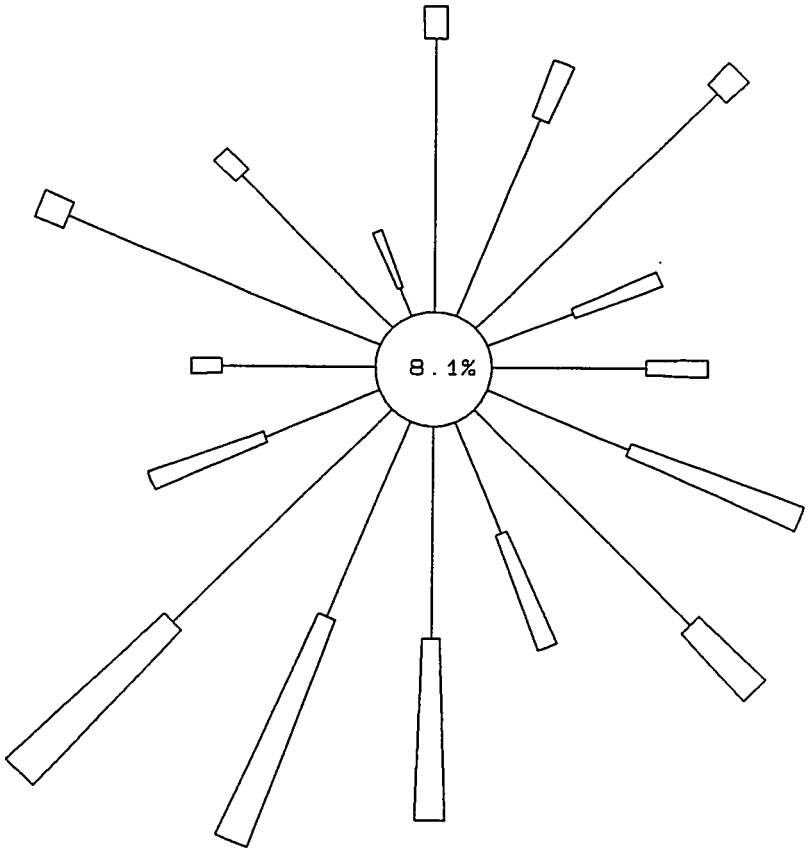


WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

99.9% DATA RECOVERED
OF WHICH 20.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
5/ 1/1994 - 5/31/1994
0 - 2300



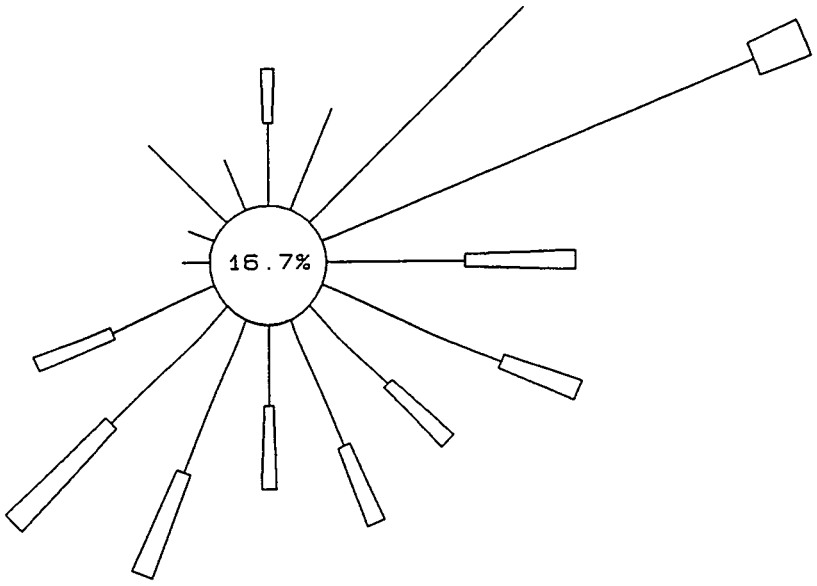
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	!	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.9% DATA RECOVERED
OF WHICH 23.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
6/ 1/1994 - 6/30/1994
0 - 2300

N



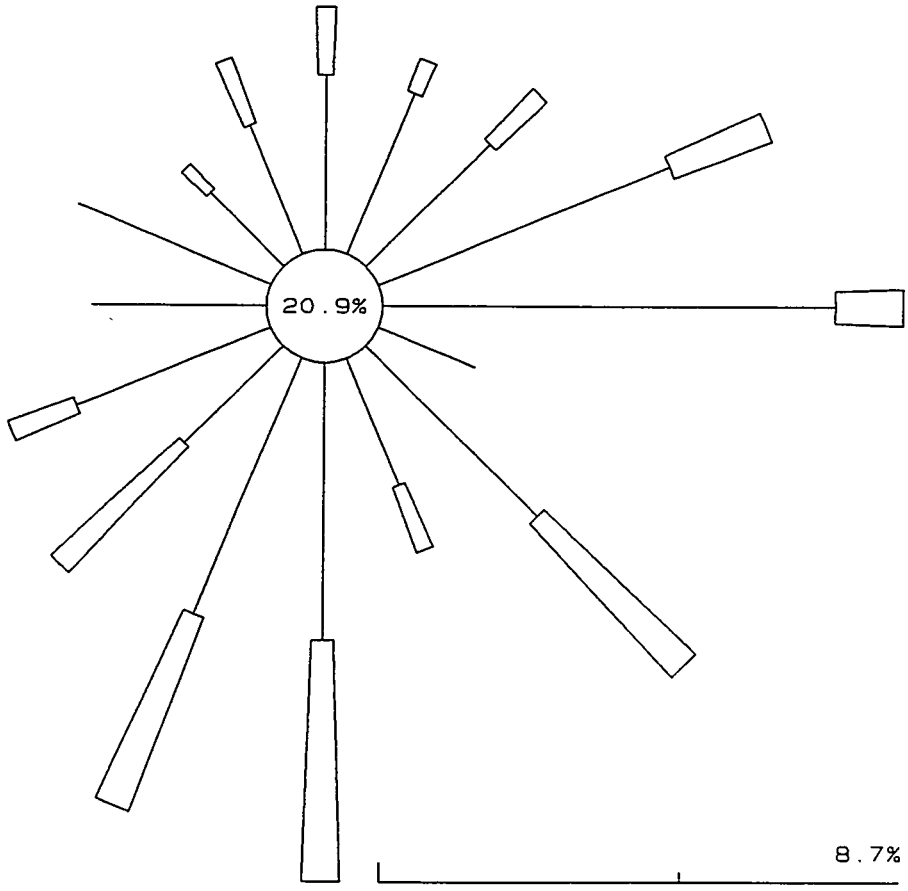
13.8%
10%

WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 19.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
7/ 1/1994 - 7/31/1994
0 - 2300

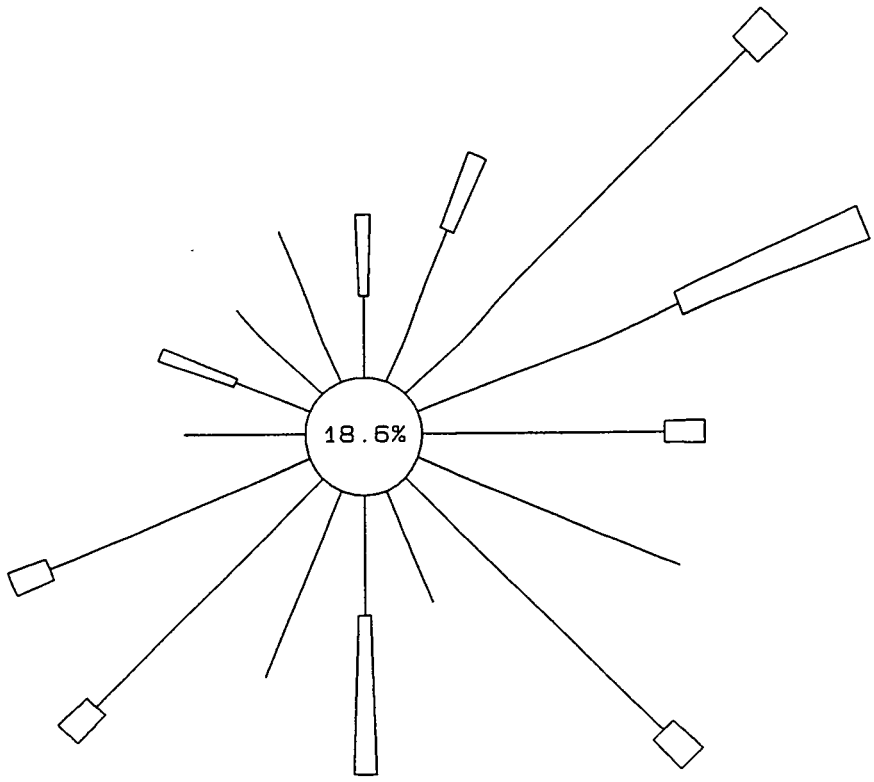


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 23.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
8/ 1/1994 - 8/31/1994
0 - 2300

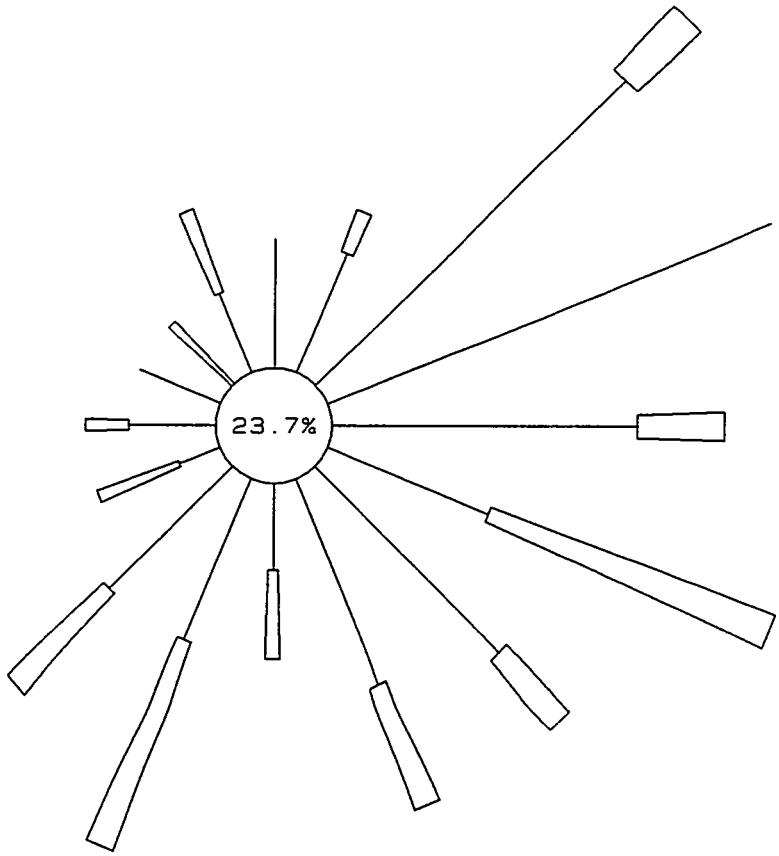


WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	0	3.3< WS <= 5.4
4	0	5.4< WS <= 8.5
5	0	8.5< WS <=10.8
6	0	10.8< WS

100.0% DATA RECOVERED
OF WHICH 17.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
9/ 1/1994 - 9/30/1994
0 - 2300

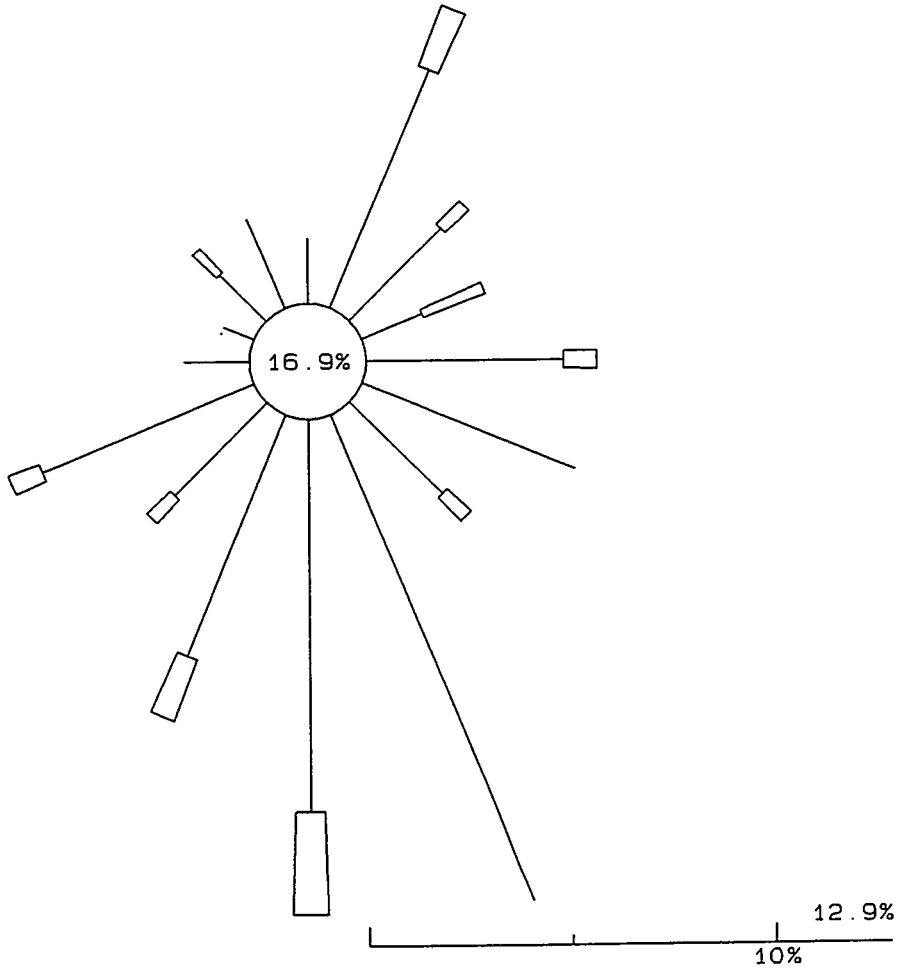


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.2% DATA RECOVERED
OF WHICH 18.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
10/ 1/1994 - 10/31/1994
0 - 2300

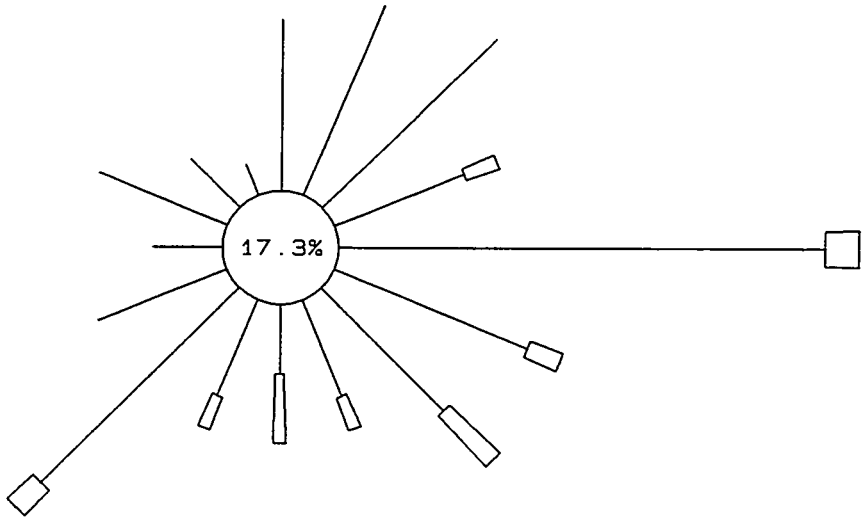


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

98.5% DATA RECOVERED
OF WHICH 16.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
11/ 1/1994 - 11/30/1994
0 - 2300



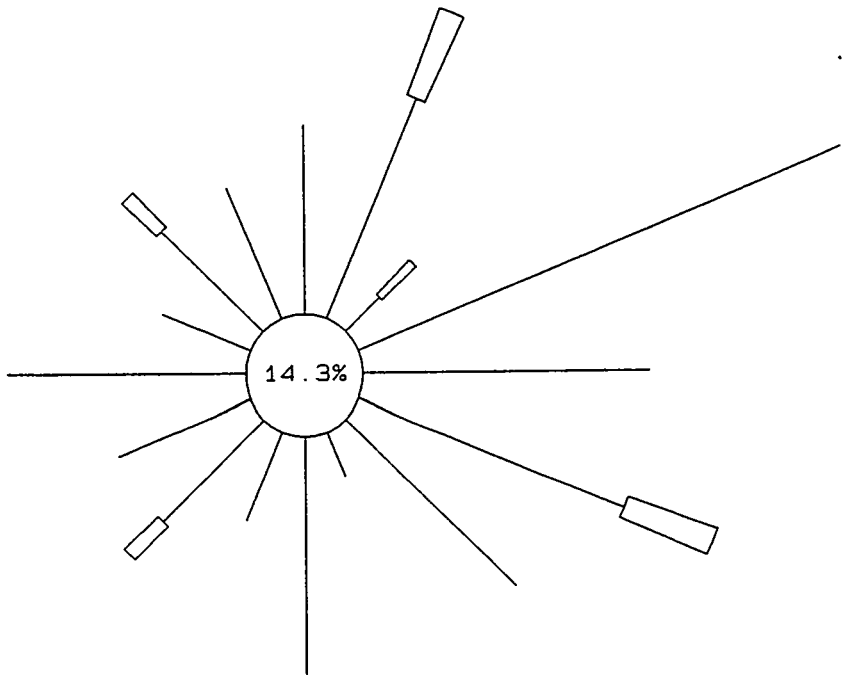
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.7% DATA RECOVERED
OF WHICH 14.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
12/ 1/1994 - 12/31/1994
0 - 2300

N



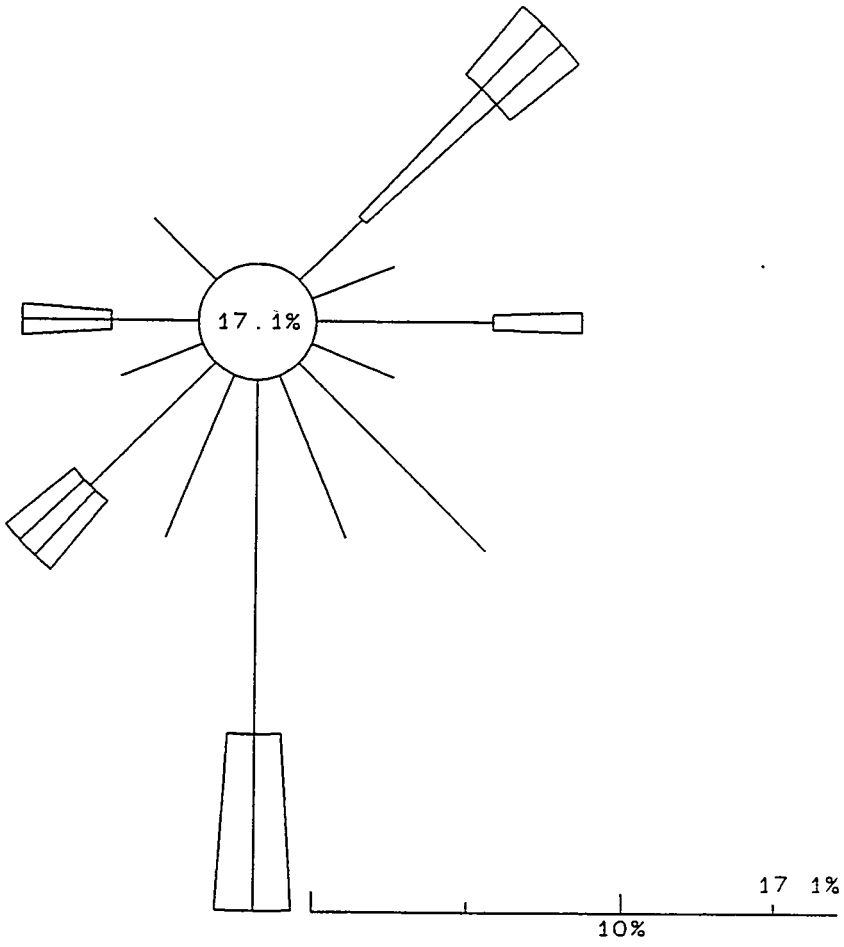
13.1%
10%

WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

65.1% DATA RECOVERED
OF WHICH 17.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
1/ 1/1994 - 1/31/1994
0 - 2300

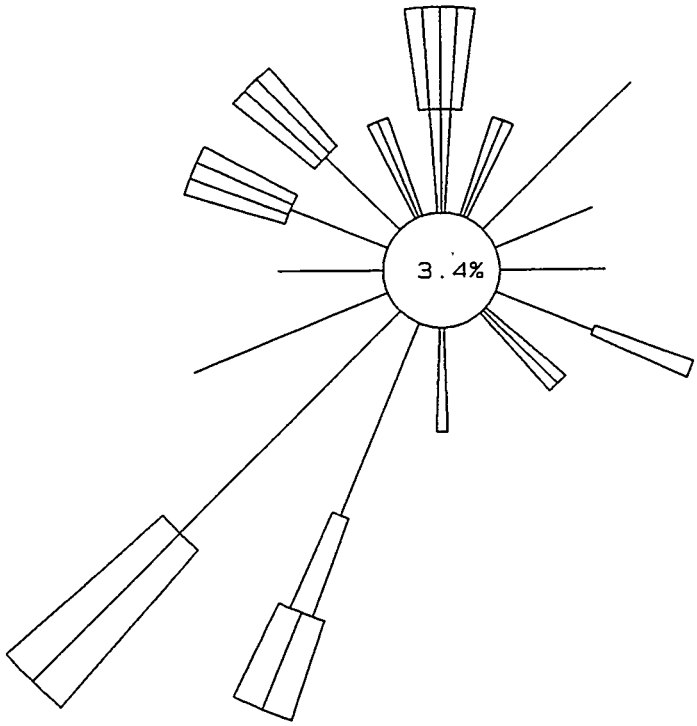


WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	00	3.3< WS <= 5.4
4	000	5.4< WS <= 8.5
5	0000	8.5< WS <=10.8
6	00000	10.8< WS

78.0% DATA RECOVERED
OF WHICH 6.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
2/ 1/1994 - 2/28/1994
0 - 2300

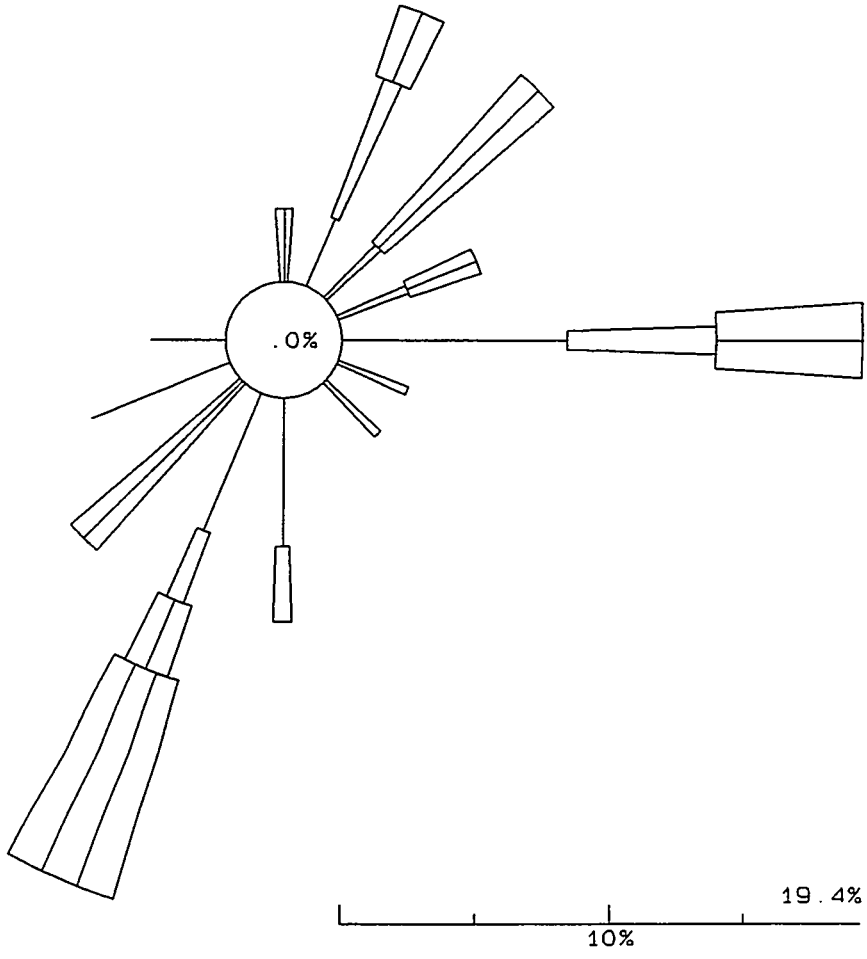


WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	0	3.3< WS <= 5.4
4	0	5.4< WS <= 8.5
5	0	8.5< WS <=10.8
6	0	10.8< WS

85.4% DATA RECOVERED
OF WHICH 5.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
3/ 1/1994 - 3/31/1994
0 - 2300



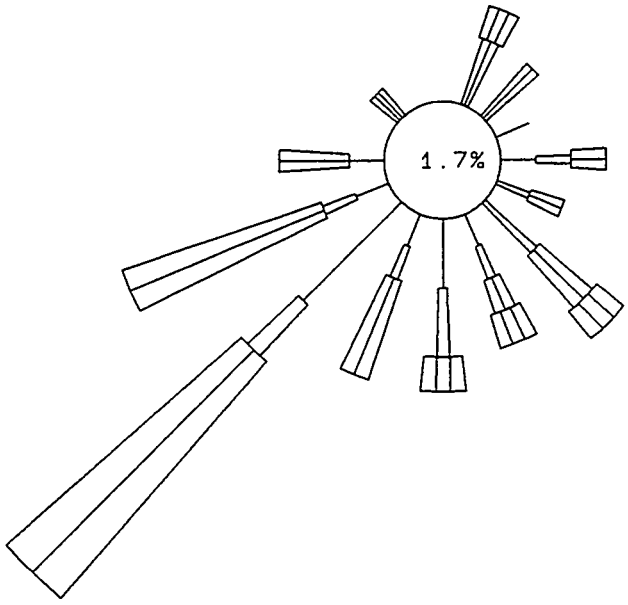
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 4.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
4/ 1/1994 - 4/30/1994
0 - 2300

N



25.9%
10%
20%

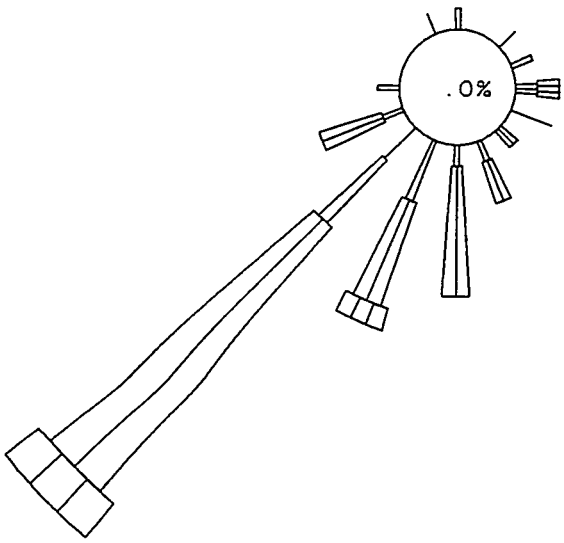
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	0	3.3< WS <= 5.4
4	0	5.4< WS <= 8.5
5	0	8.5< WS <=10.8
6	0	10.8< WS

99.9% DATA RECOVERED
OF WHICH 8.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
5/ 1/1994 - 5/31/1994
0 - 2300

N



42.1%
10% 20% 30% 40%

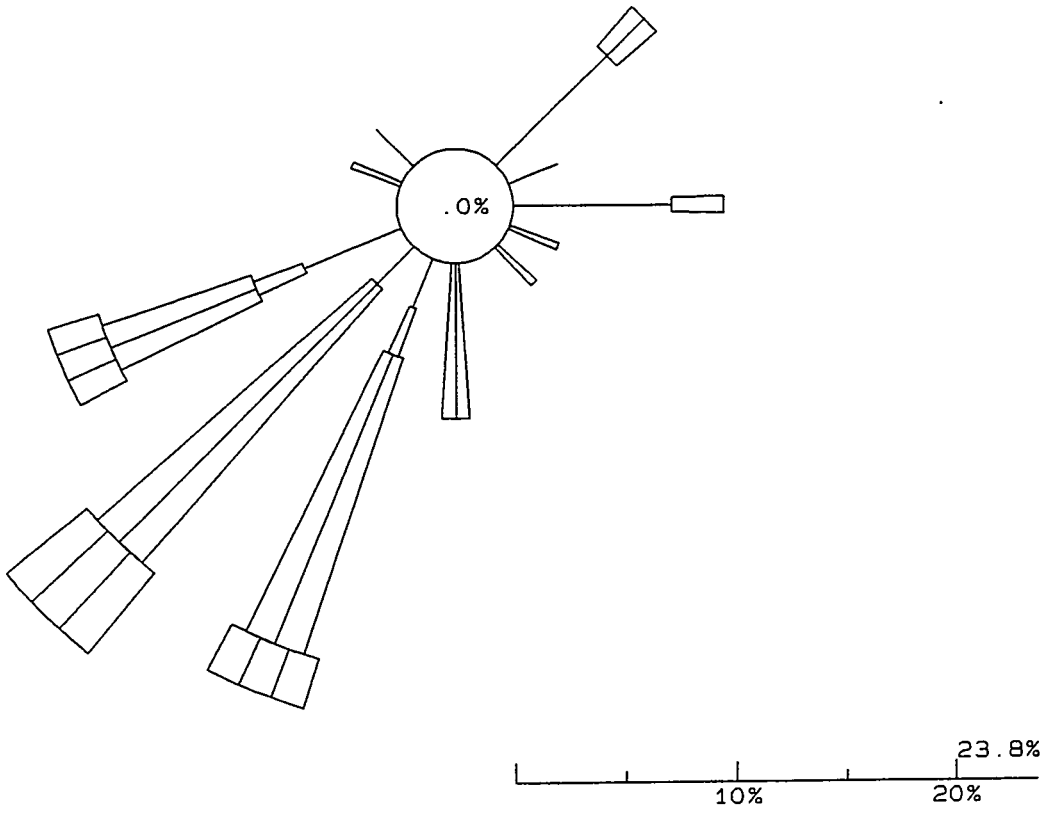
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.9% DATA RECOVERED
OF WHICH 7.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
6/ 1/1994 - 6/30/1994
0 - 2300

N

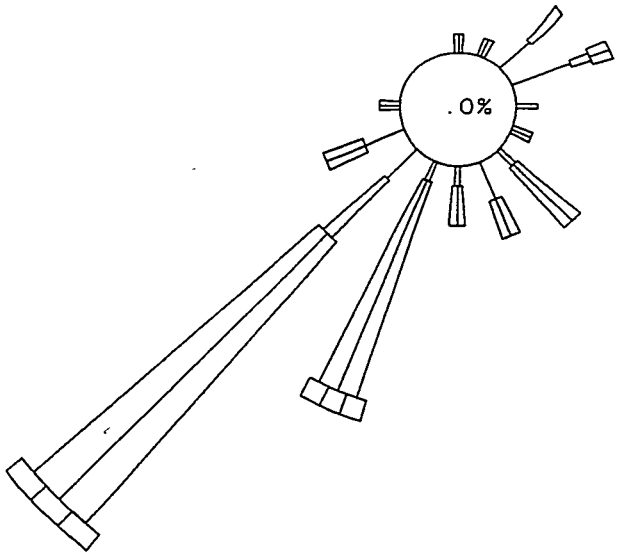


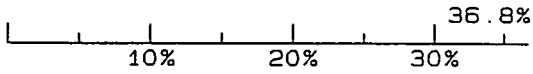
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

100.0% DATA RECOVERED
OF WHICH 5.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
7/ 1/1994 - 7/31/1994
0 - 2300





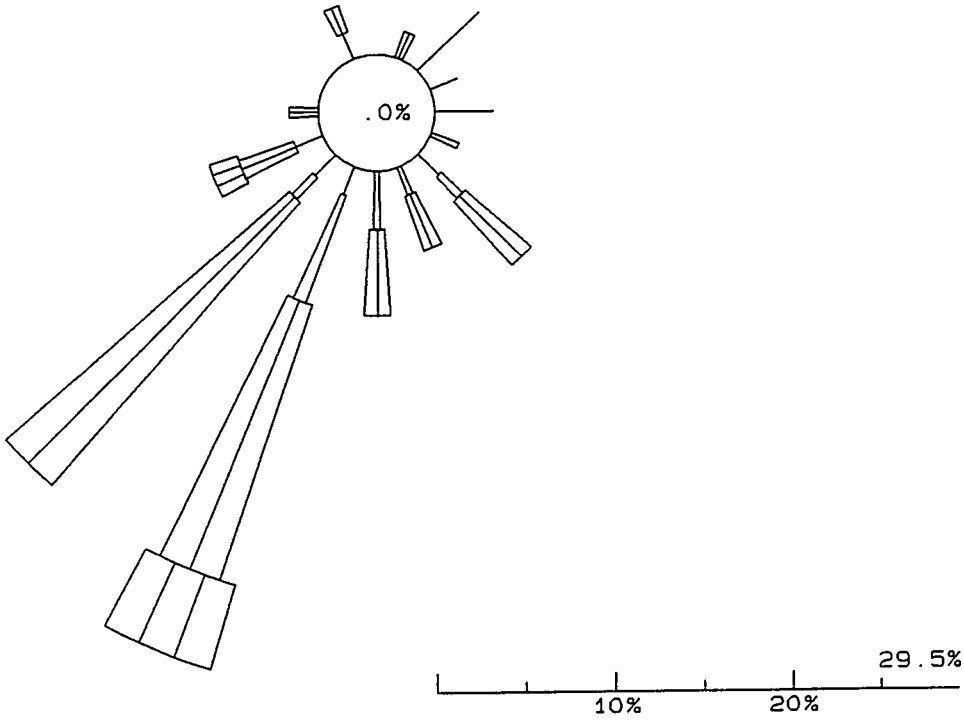
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 9.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
8/ 1/1994 - 8/31/1994
0 - 2300

N



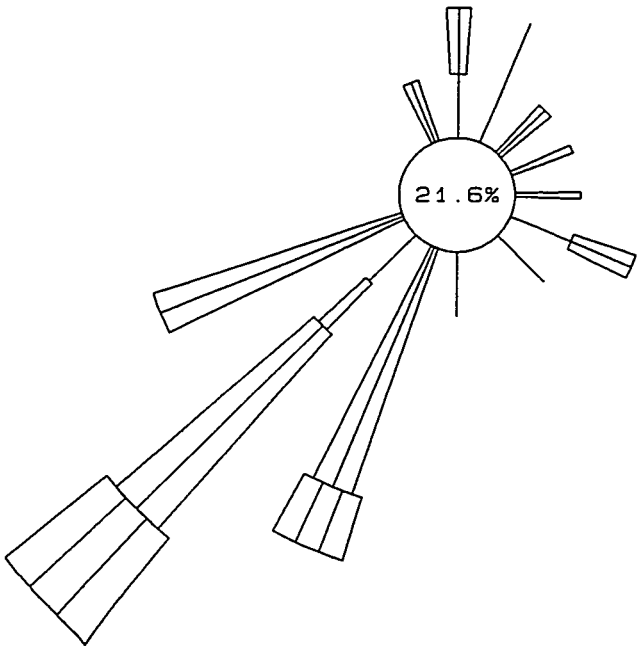
WIND SPEED CLASSES (MPS)

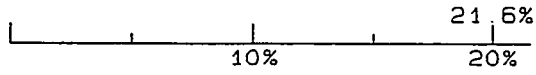
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	00	3.3< WS <= 5.4
4	000	5.4< WS <= 8.5
5	0000	8.5< WS <=10.8
6	00000	10.8< WS

100.0% DATA RECOVERED
OF WHICH 8.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
9/ 1/1994 - 9/30/1994
0 - 2300

N



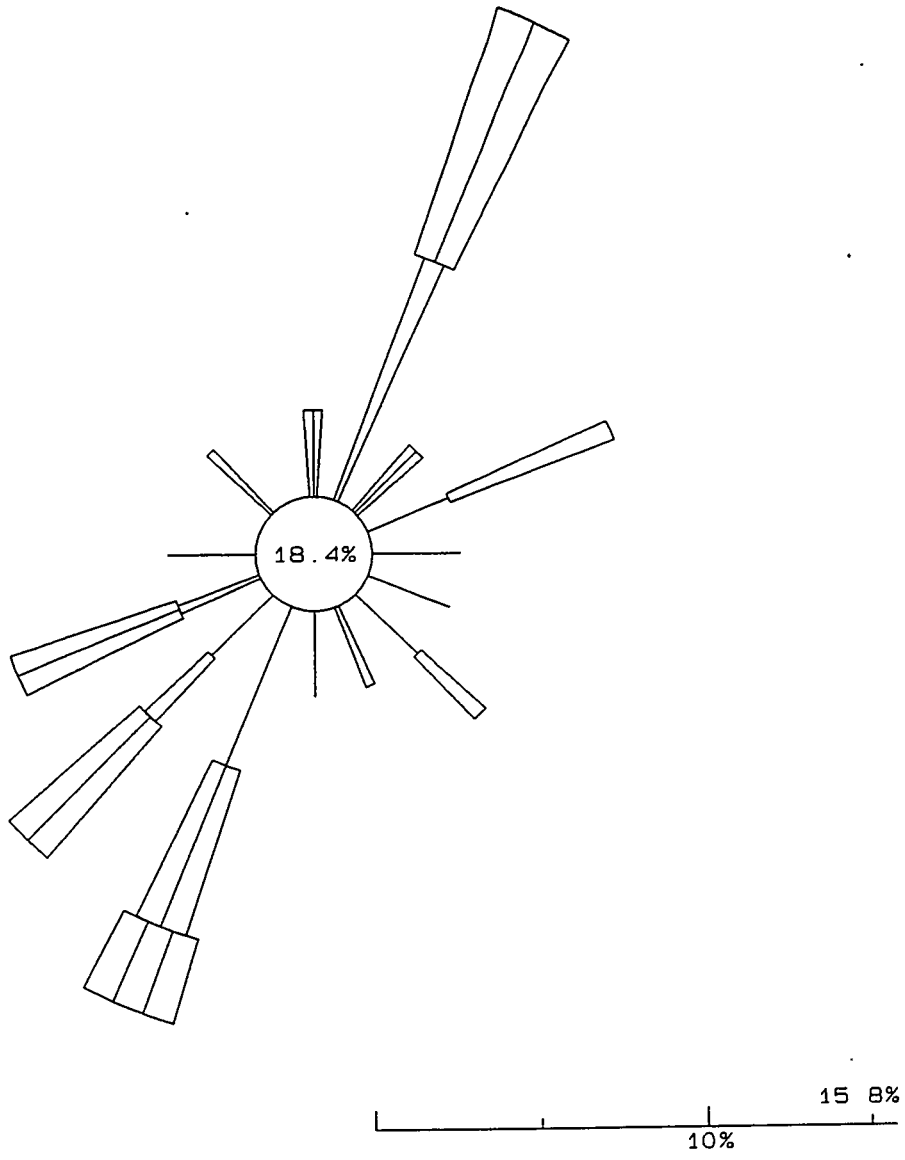


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.2% DATA RECOVERED
OF WHICH 5.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
10/ 1/1994 - 10/31/1994
0 - 2300

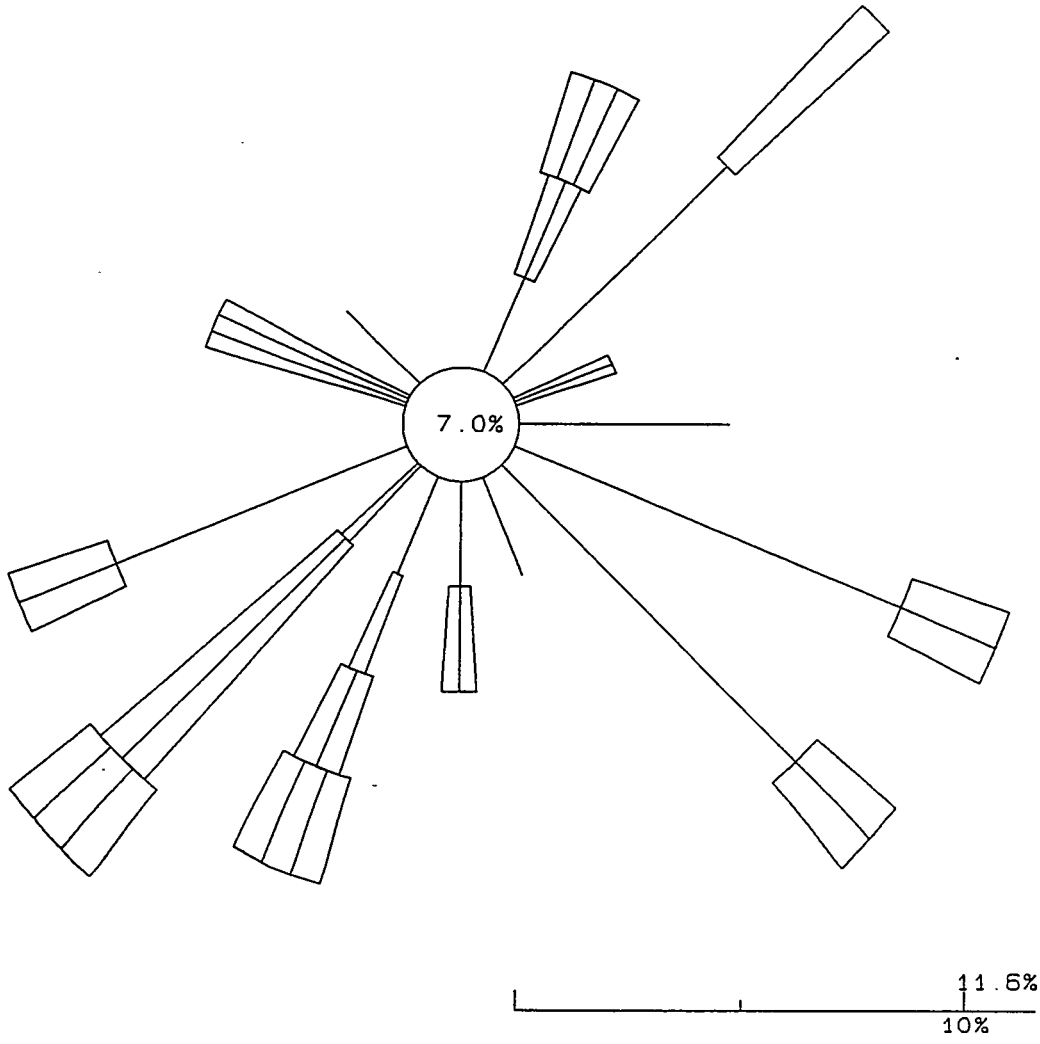


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

98.5% DATA RECOVERED
OF WHICH 5.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
11/ 1/1994 - 11/30/1994
0 - 2300



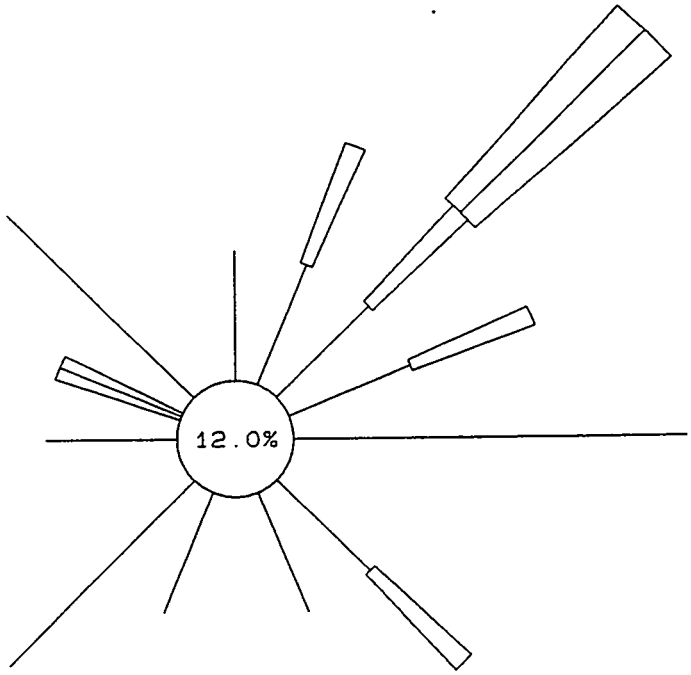
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	O	1.8< WS <= 3.3
3	OO	3.3< WS <= 5.4
4	OOO	5.4< WS <= 8.5
5	OOOO	8.5< WS <=10.8
6	OOOOO	10.8< WS

99.7% DATA RECOVERED
OF WHICH 6.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
12/ 1/1994 - 12/31/1994
0 - 2300

N



16.0%
10%

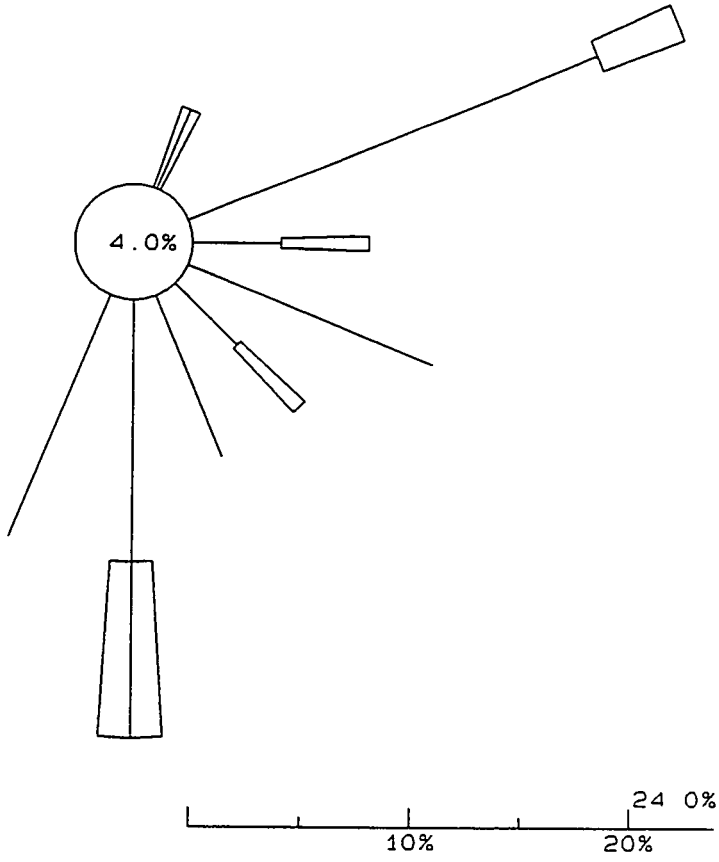
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

65.1% DATA RECOVERED
OF WHICH 5.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
1/ 1/1994 - 1/31/1994
0 - 2300

N

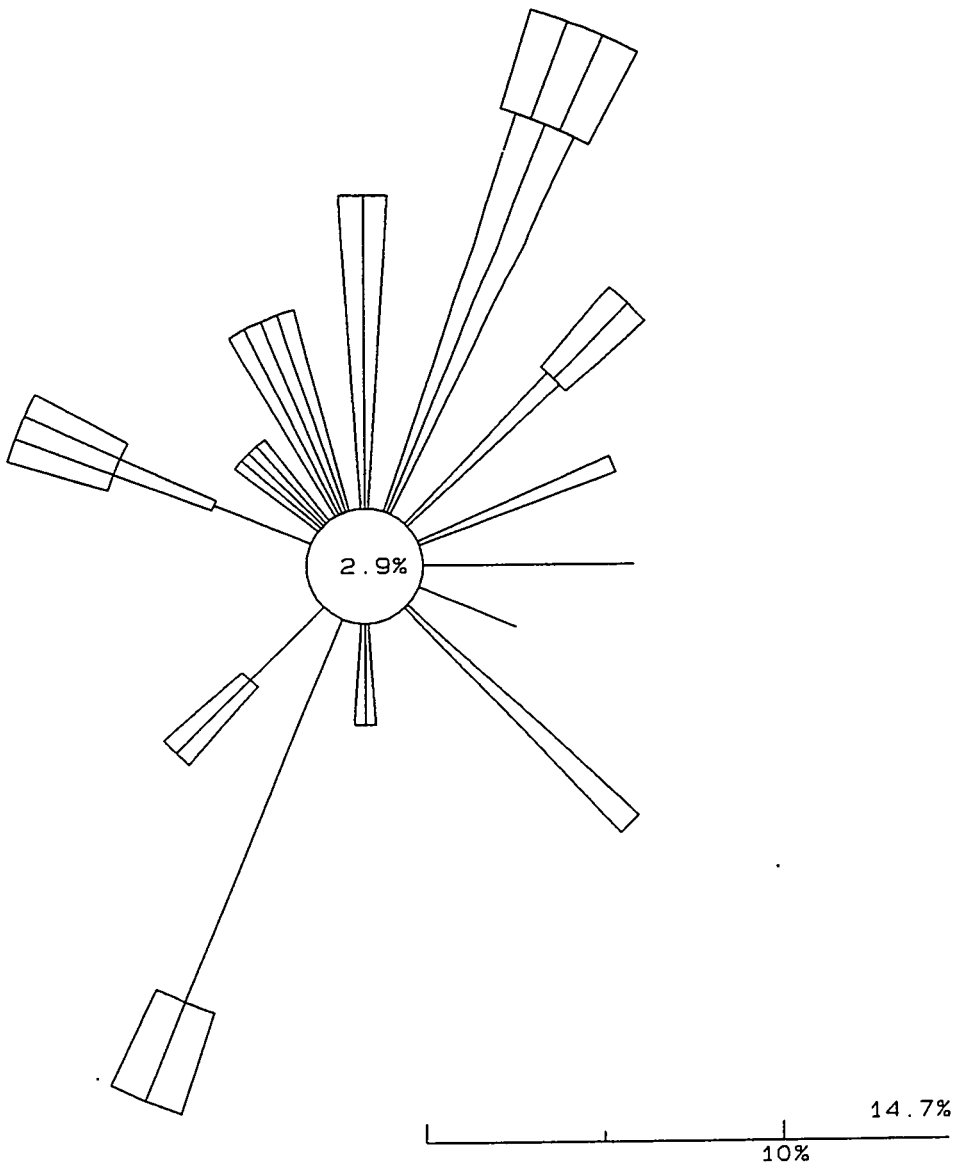


WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	0	3.3< WS <= 5.4
4	0	5.4< WS <= 8.5
5	0	8.5< WS <=10.8
6	0	10.8< WS

78.0% DATA RECOVERED
OF WHICH 4.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
2/ 1/1994 - 2/28/1994
0 - 2300

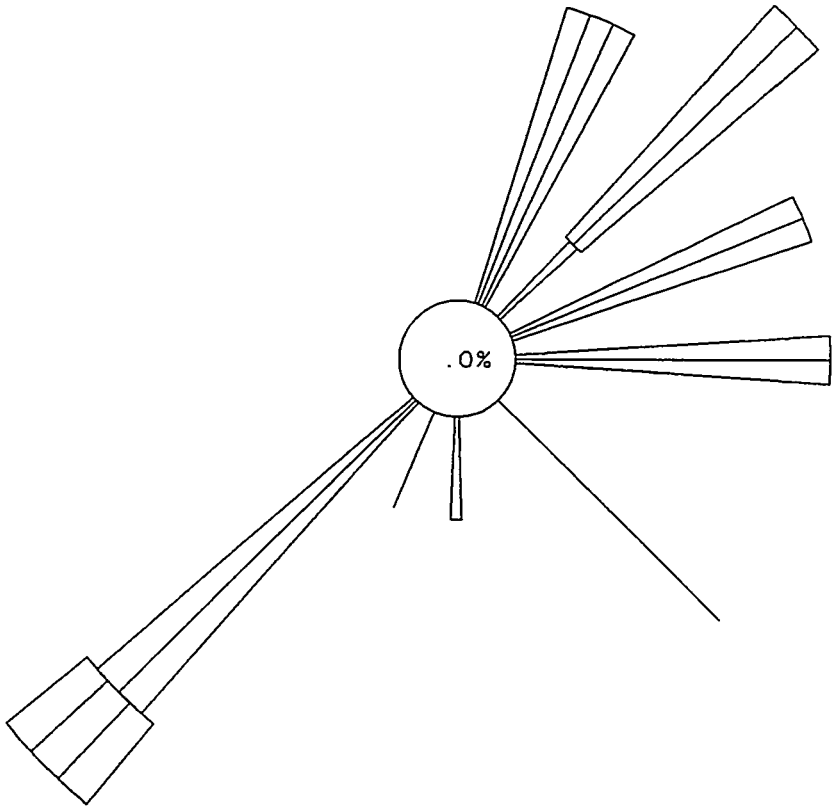


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

85.4% DATA RECOVERED
OF WHICH 5.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
3/ 1/1994 - 3/31/1994
0 - 2300

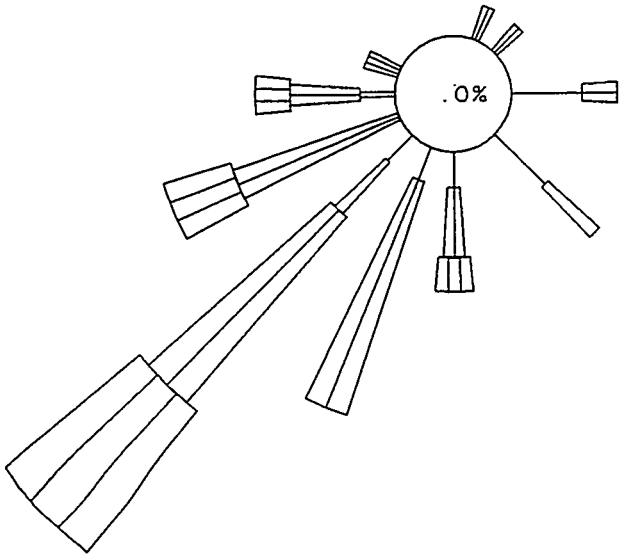


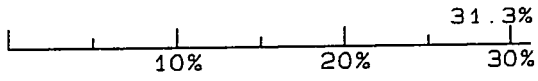
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

100.0% DATA RECOVERED
OF WHICH 3.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
4/ 1/1994 - 4/30/1994
0 - 2300





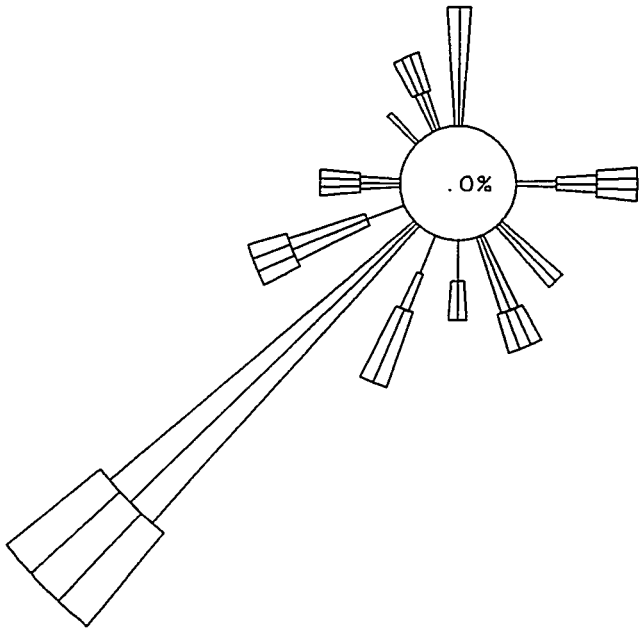
WIND SPEED CLASSES (MPS)

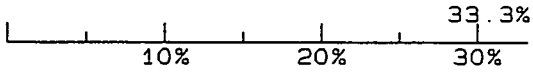
CALM	0	WS <= ..5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	0	3.3< WS <= 5.4
4	0	5.4< WS <= 8.5
5	0	8.5< WS <=10.8
6	0	10.8< WS

99.9% DATA RECOVERED
OF WHICH 6.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
5/ 1/1994 - 5/31/1994
0 - 2300

N





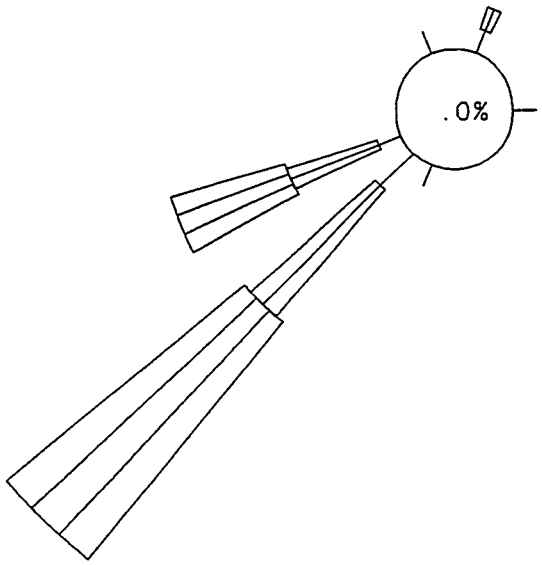
WIND SPEED CLASSES (MPS)

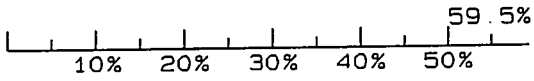
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	O	1.8< WS <= 3.3
3	⊡	3.3< WS <= 5.4
4	⊡⊡	5.4< WS <= 8.5
5	⊡⊡⊡	8.5< WS <=10.8
6	⊡⊡⊡⊡	10.8< WS

96.9% DATA RECOVERED
OF WHICH 5.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
6/ 1/1994 - 6/30/1994
0 - 2300

N





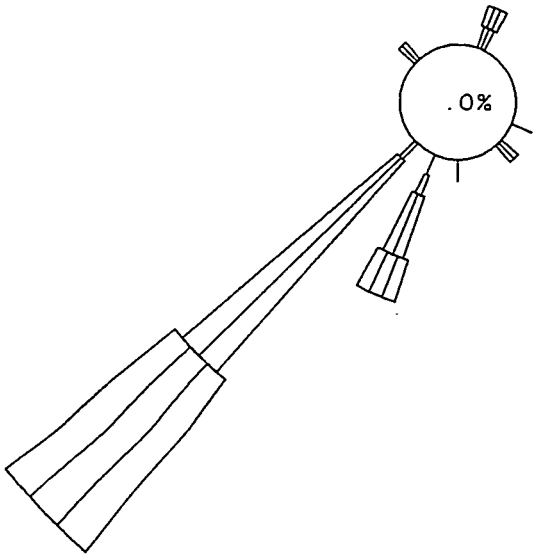
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

100.0% DATA RECOVERED
OF WHICH 5.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
7/ 1/1994 - 7/31/1994
0 - 2300

N



64.9%
10% 20% 30% 40% 50% 60%

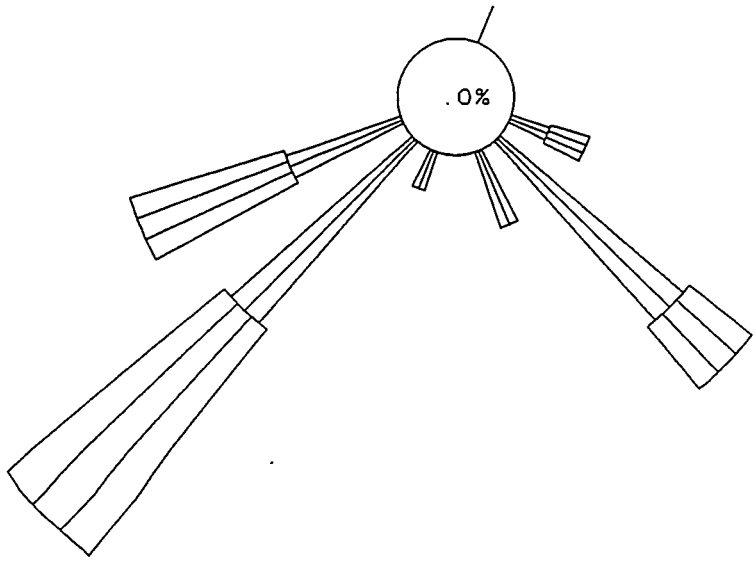
WIND SPEED CLASSES (MPS)

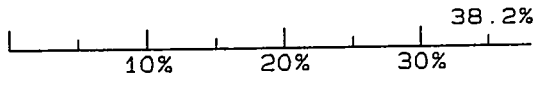
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 5.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
8/ 1/1994 - 8/31/1994
0 - 2300

N



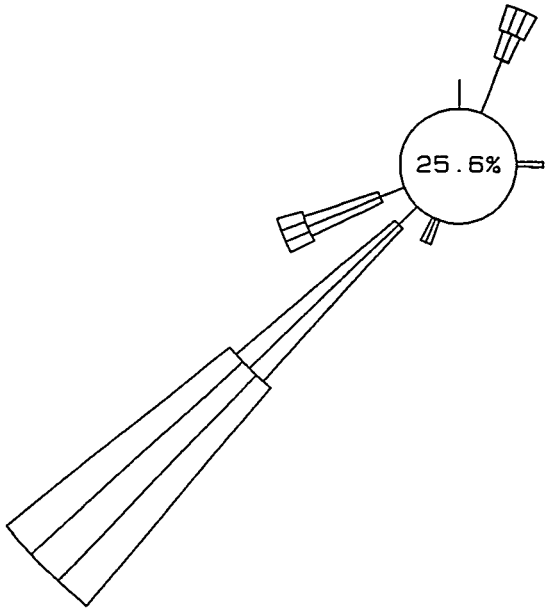


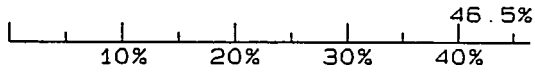
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	00	3.3< WS <= 5.4
4	000	5.4< WS <= 8.5
5	0000	8.5< WS <=10.8
6	00000	10.8< WS

100.0% DATA RECOVERED
OF WHICH 4.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
9/ 1/1994 - 9/30/1994
0 - 2300



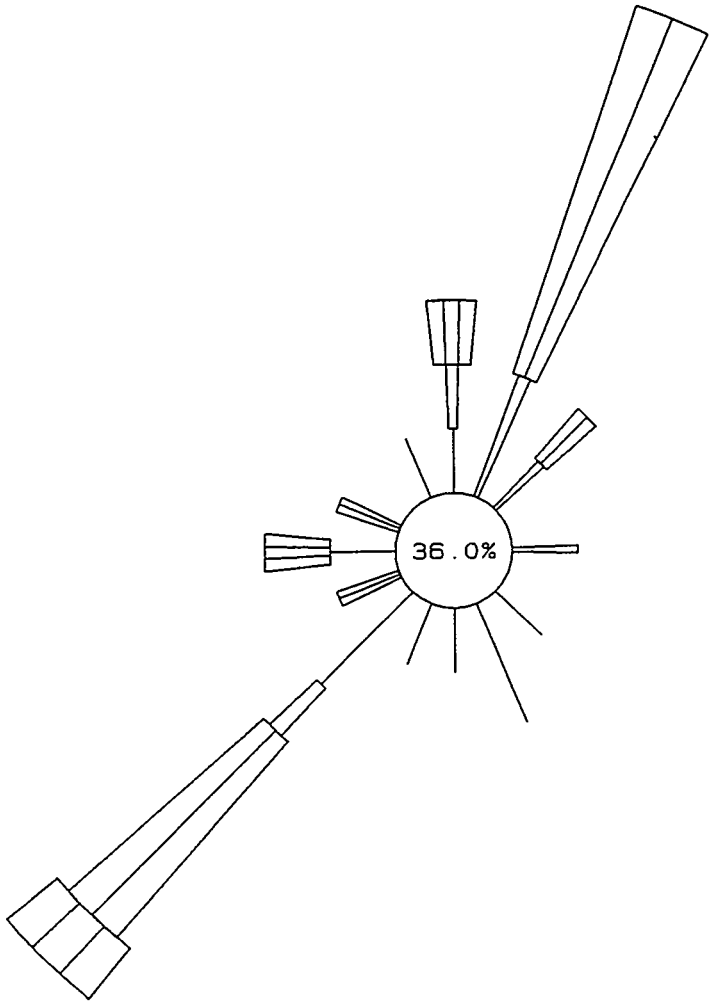


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.2% DATA RECOVERED
OF WHICH 6.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
10/ 1/1994 - 10/31/1994
0 - 2300



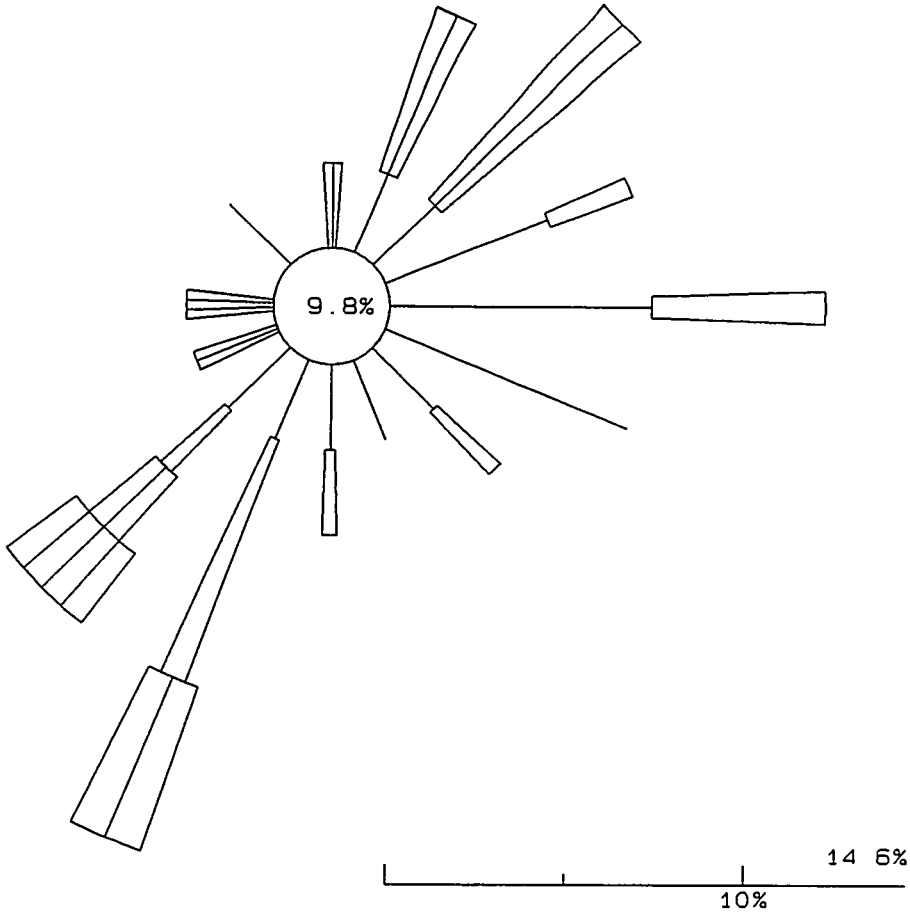
16.0%
10%

WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

98.5% DATA RECOVERED
OF WHICH 6.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
11/ 1/1994 - 11/30/1994
0 - 2300

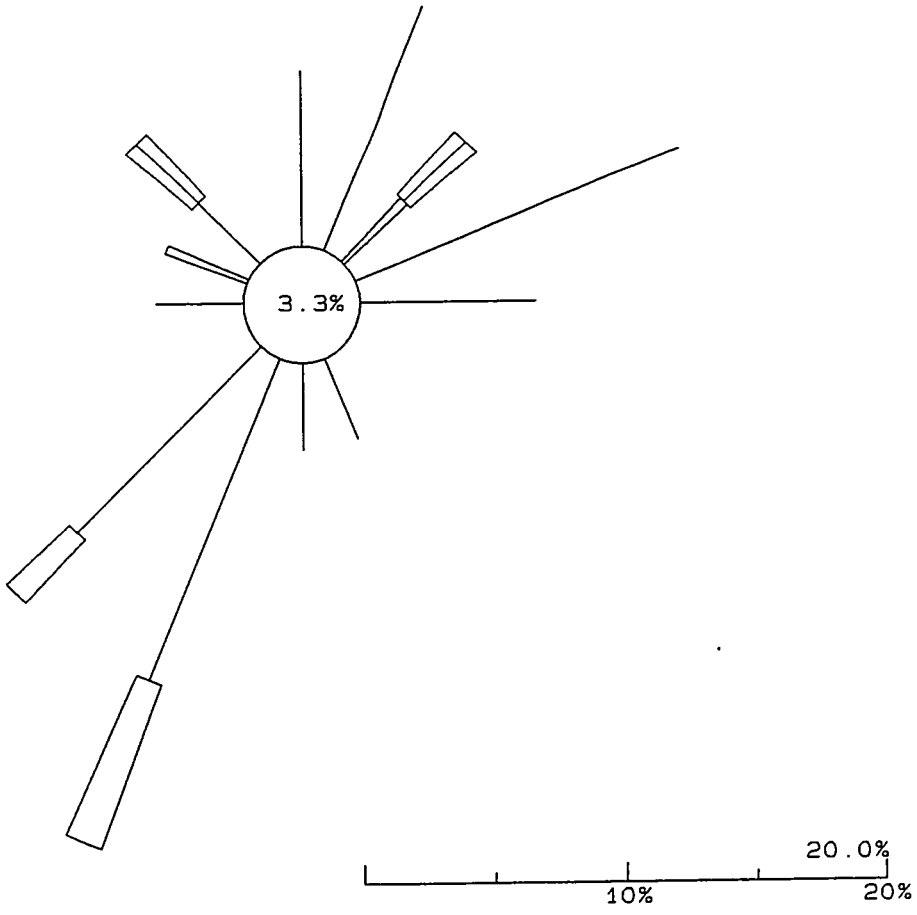


WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

99.7% DATA RECOVERED
OF WHICH 5.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
12/ 1/1994 - 12/31/1994
0 - 2300

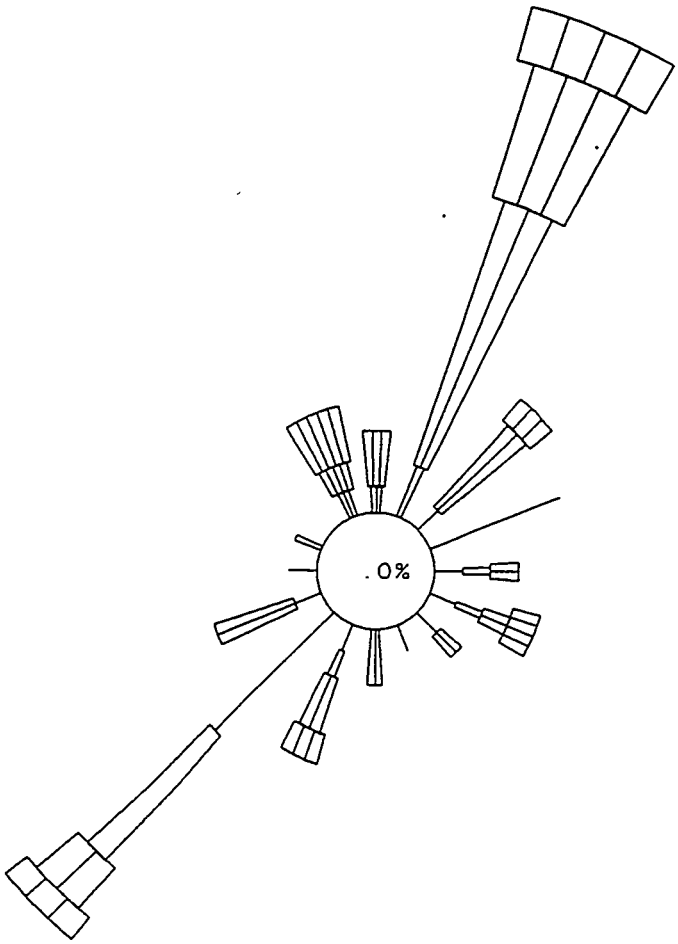


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

65.1% DATA RECOVERED
OF WHICH 6.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
1/ 1/1994 - 1/31/1994
0 - 2300

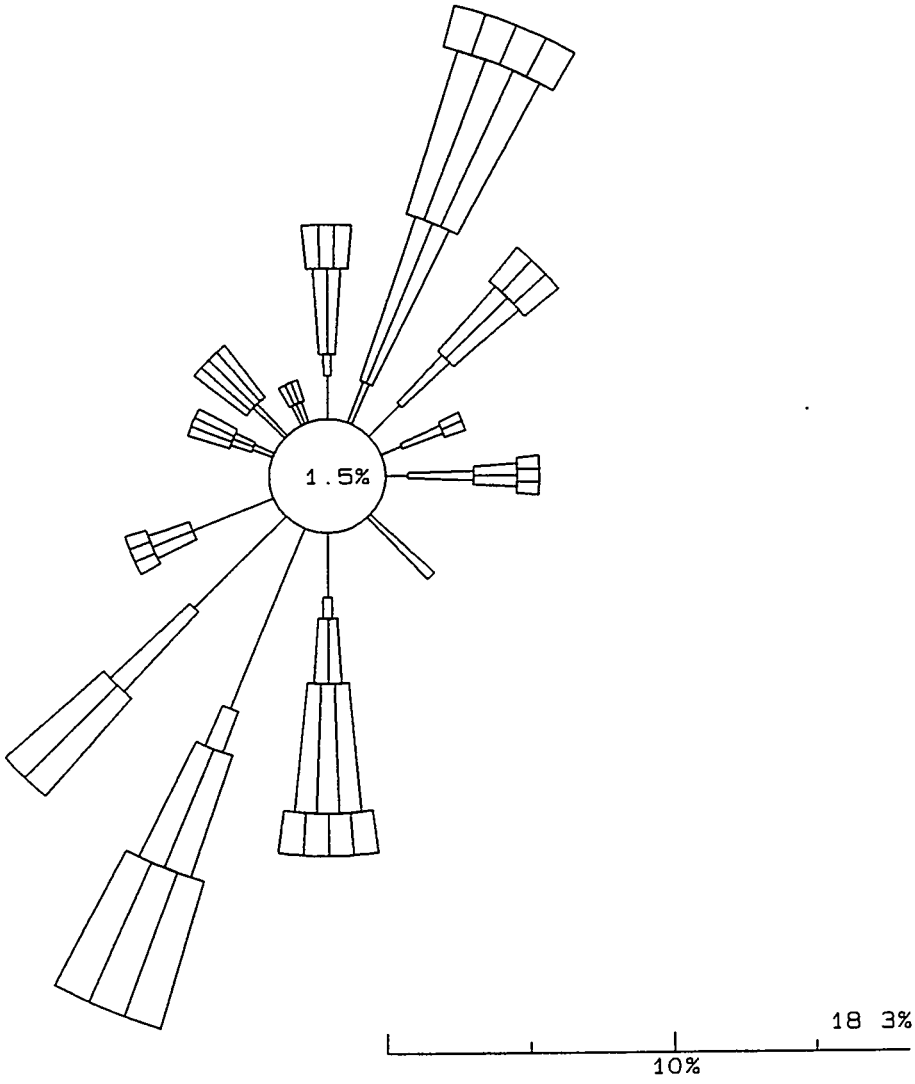


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	O	1.8< WS <= 3.3
3	OO	3.3< WS <= 5.4
4	OOO	5.4< WS <= 8.5
5	OOOO	8.5< WS <=10.8
6	OOOOO	10.8< WS

78.0% DATA RECOVERED
OF WHICH 12.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
2/ 1/1994 - 2/28/1994
0 - 2300



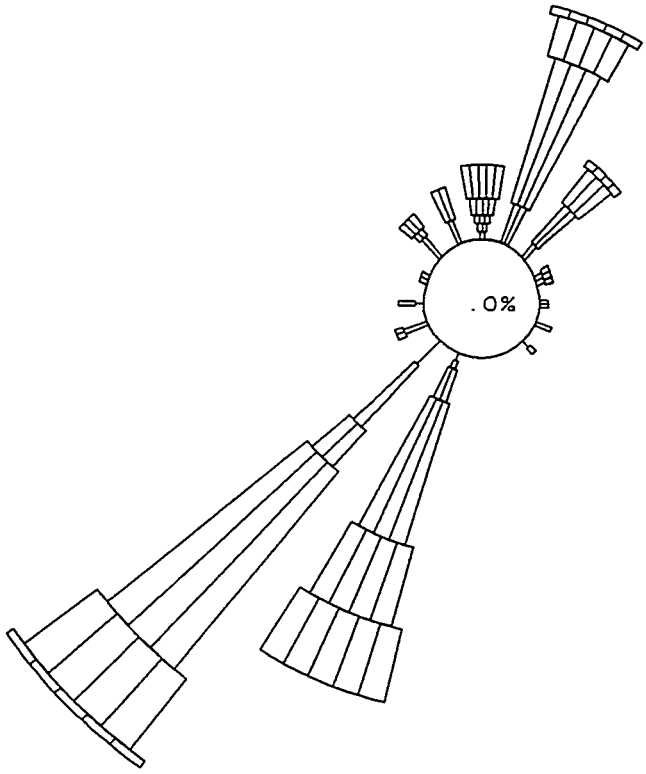
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

85.4% DATA RECOVERED
OF WHICH 22.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
3/ 1/1994 - 3/31/1994
0 - 2300

N



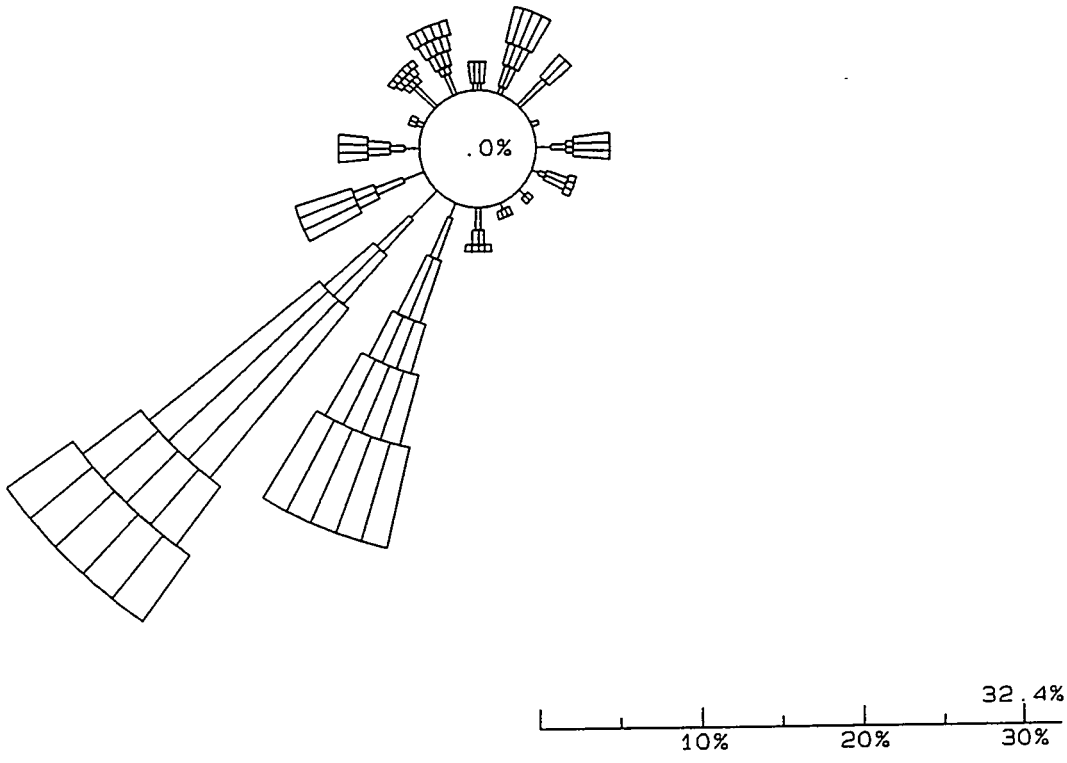
33.9%
10% 20% 30%

WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 25.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
4/ 1/1994 - 4/30/1994
0 - 2300

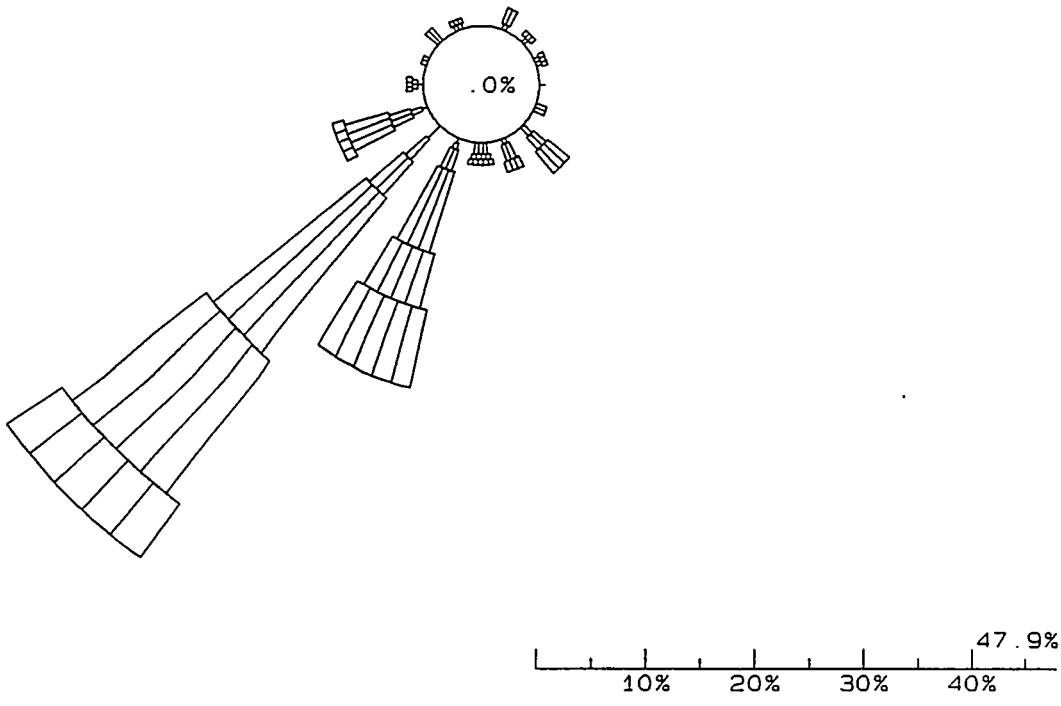


WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

99.9% DATA RECOVERED
OF WHICH 30.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
5/ 1/1994 - 5/31/1994
0 - 2300



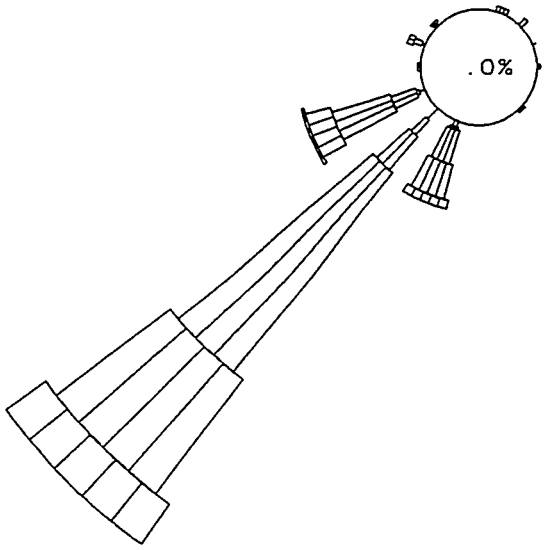
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.9% DATA RECOVERED
OF WHICH 26.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
6/ 1/1994 - 6/30/1994
0 - 2300

N



66.9%
10% 20% 30% 40% 50% 60%

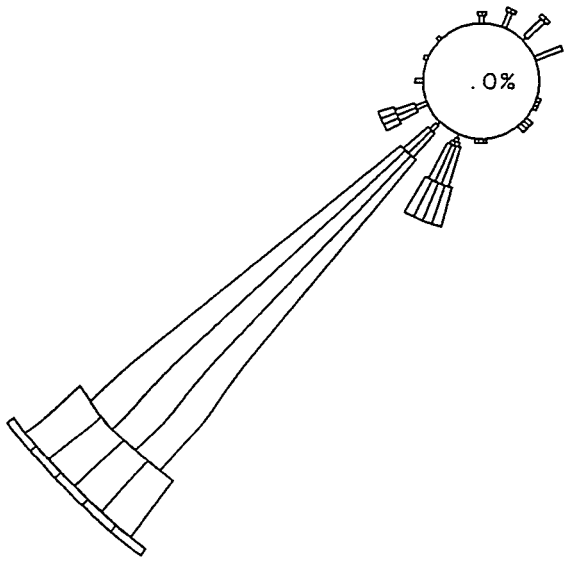
WIND SPEED CLASSES (MPS)

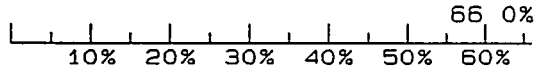
CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

100.0% DATA RECOVERED
OF WHICH 37.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
7/ 1/1994 - 7/31/1994
0 - 2300

N



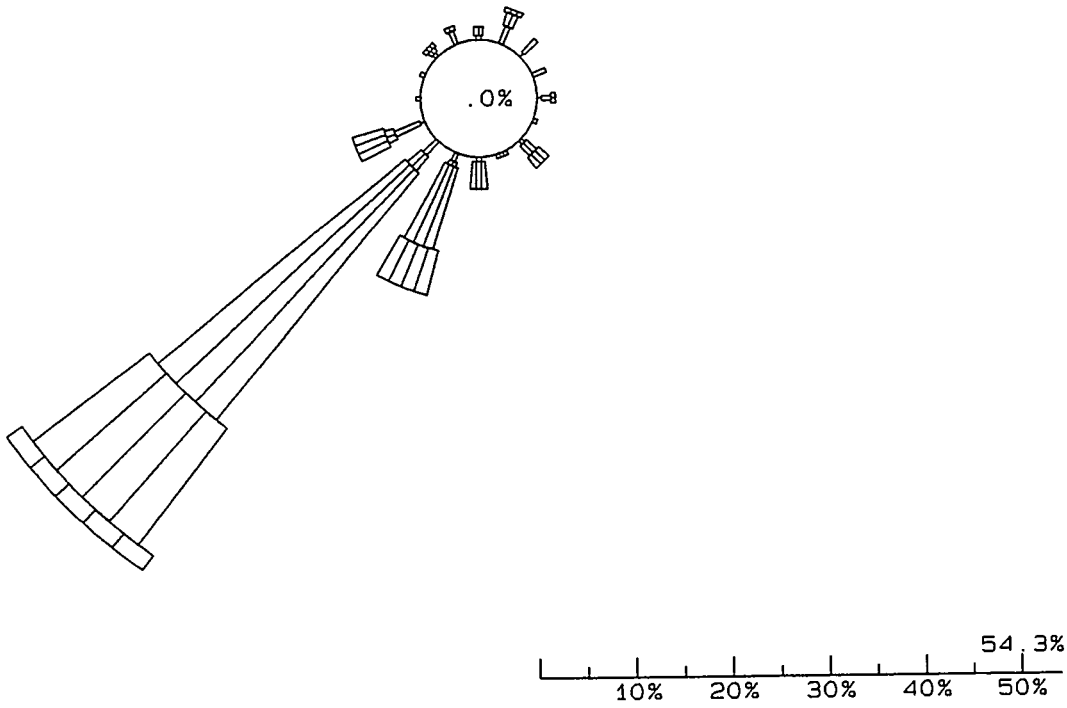


WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	00	3.3< WS <= 5.4
4	000	5.4< WS <= 8.5
5	0000	8.5< WS <=10.8
6	00000	10.8< WS

100.0% DATA RECOVERED
OF WHICH 26.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
8/ 1/1994 - 8/31/1994
0 - 2300

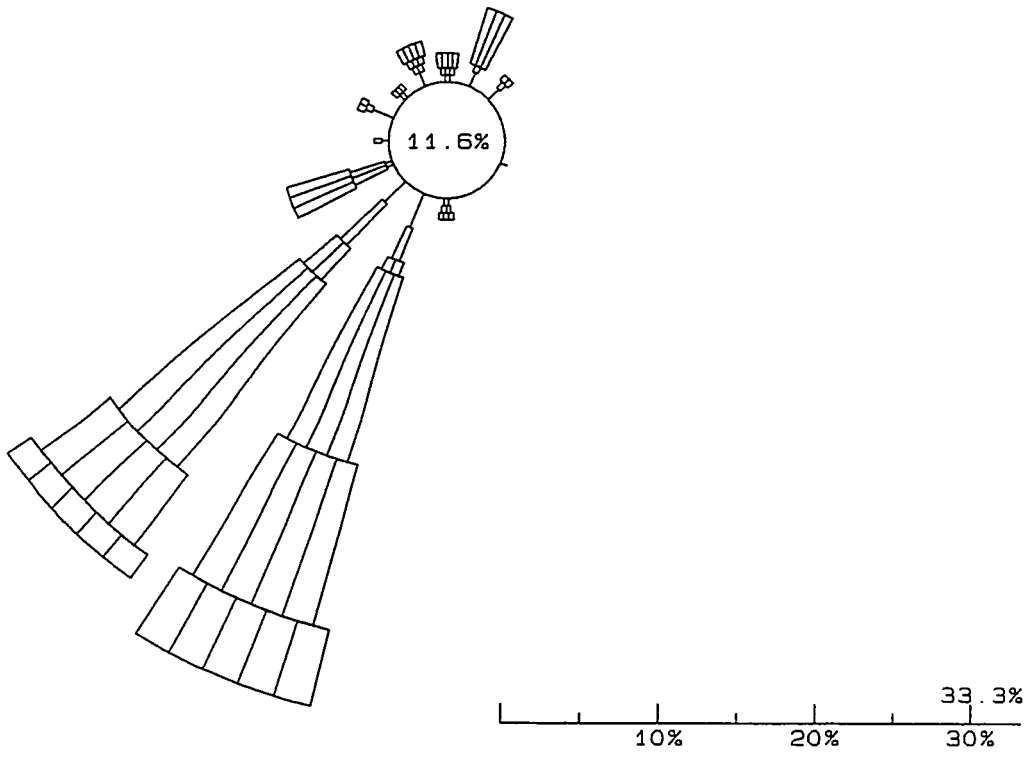


WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 28.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
9/ 1/1994 - 9/30/1994
0 - 2300



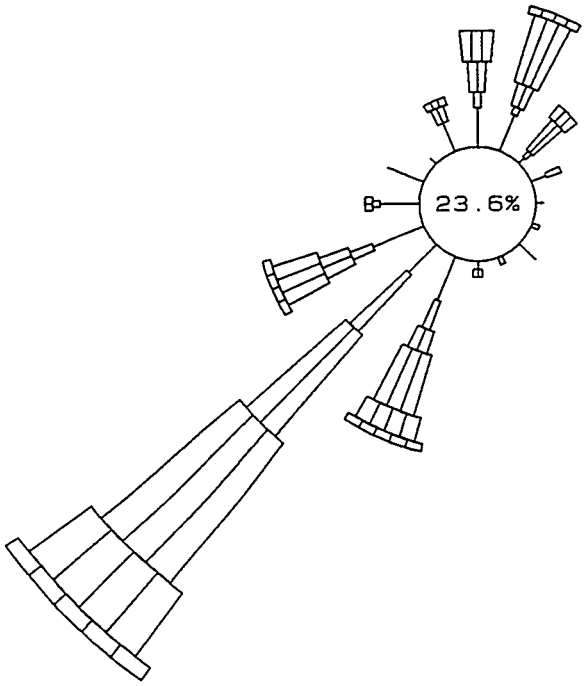
WIND SPEED CLASSES (MPS)

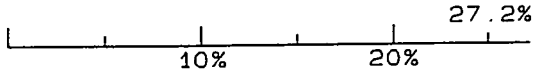
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.2% DATA RECOVERED
OF WHICH 30.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
10/ 1/1994 - 10/31/1994
0 - 2300

N



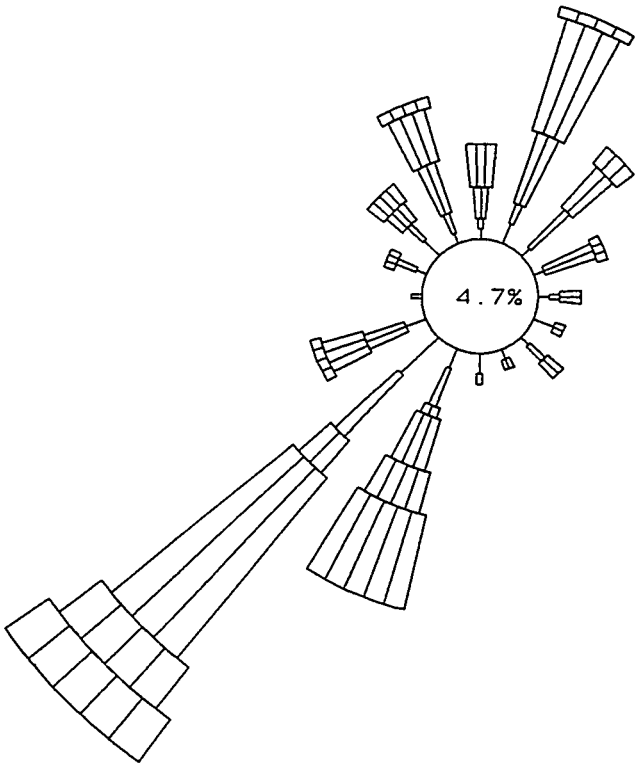


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

98.5% DATA RECOVERED
OF WHICH 33.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
11/ 1/1994 - 11/30/1994
0 - 2300

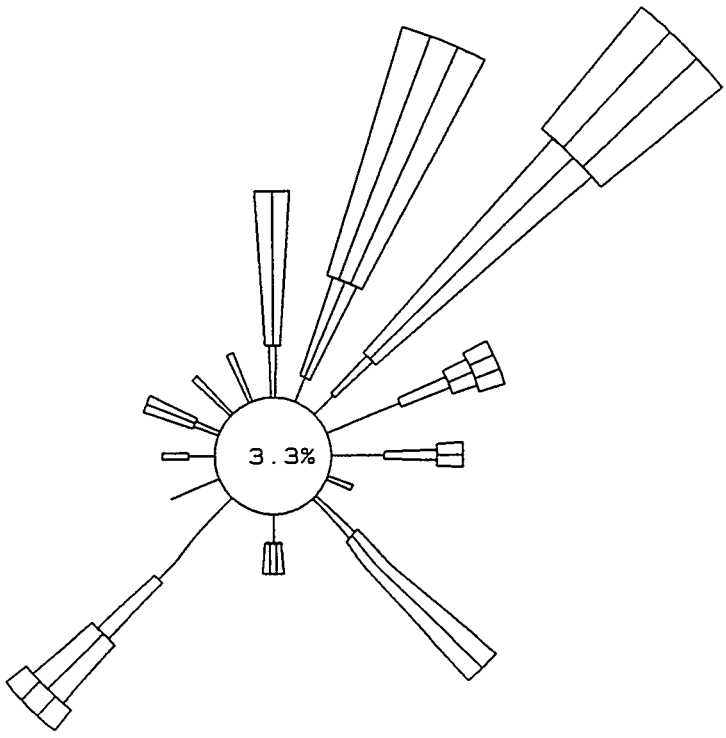


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.7% DATA RECOVERED
OF WHICH 26.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
12/ 1/1994 - 12/31/1994
0 - 2300



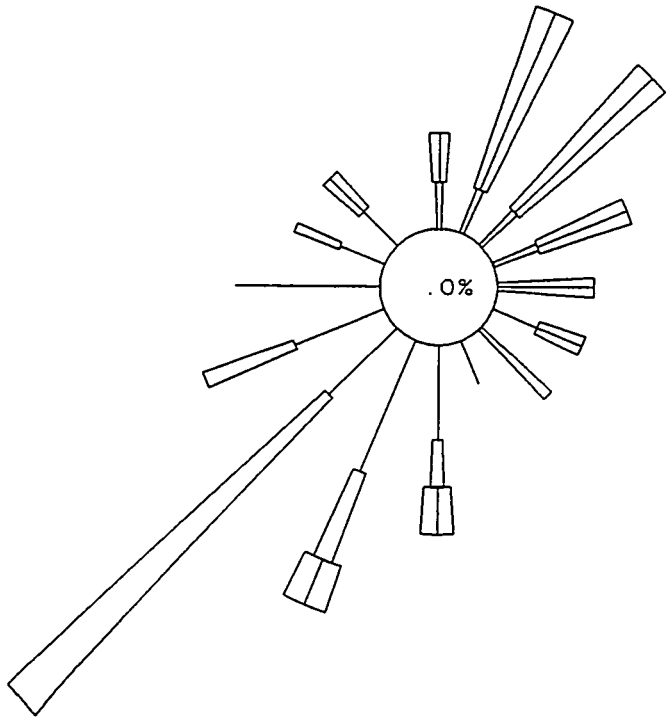
WIND SPEED CLASSES (MPS)

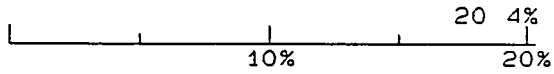
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

65.1% DATA RECOVERED
OF WHICH 19.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
1/ 1/1994 - 1/31/1994
0 - 2300

N



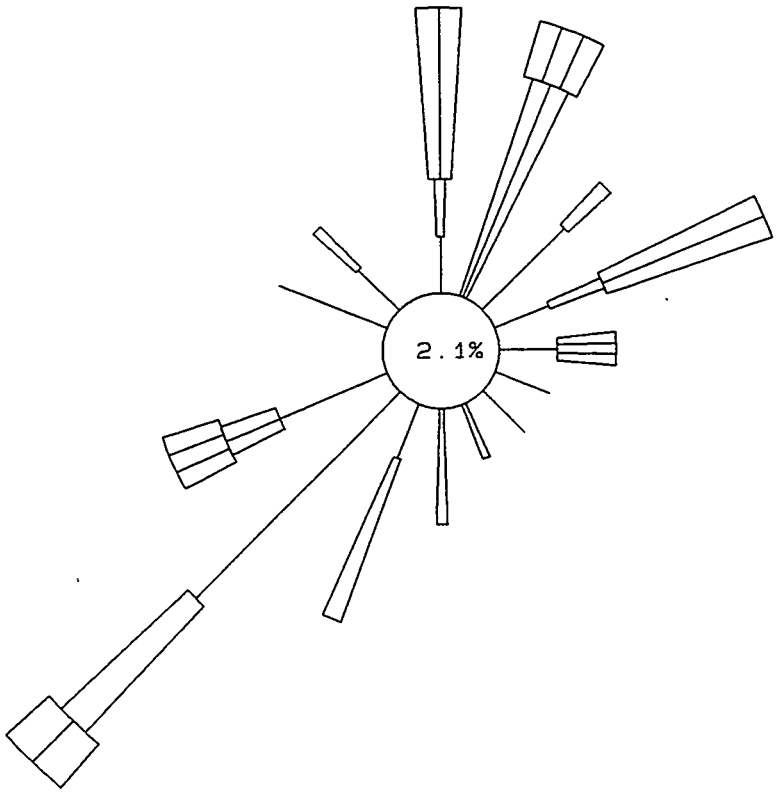


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

78.0% DATA RECOVERED
OF WHICH 9.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
2/ 1/1994 - 2/28/1994
0 - 2300

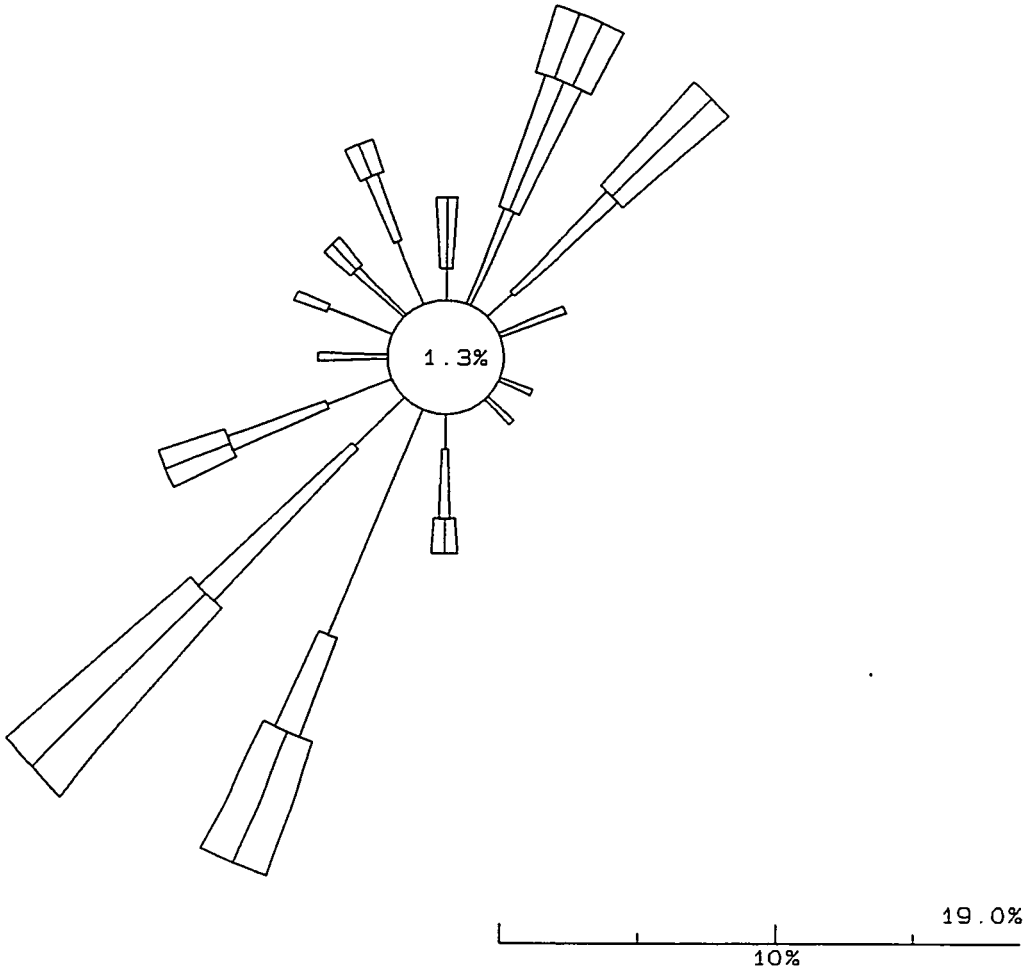


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

85.4% DATA RECOVERED
OF WHICH 8.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
3/ 1/1994 - 3/31/1994
0 - 2300



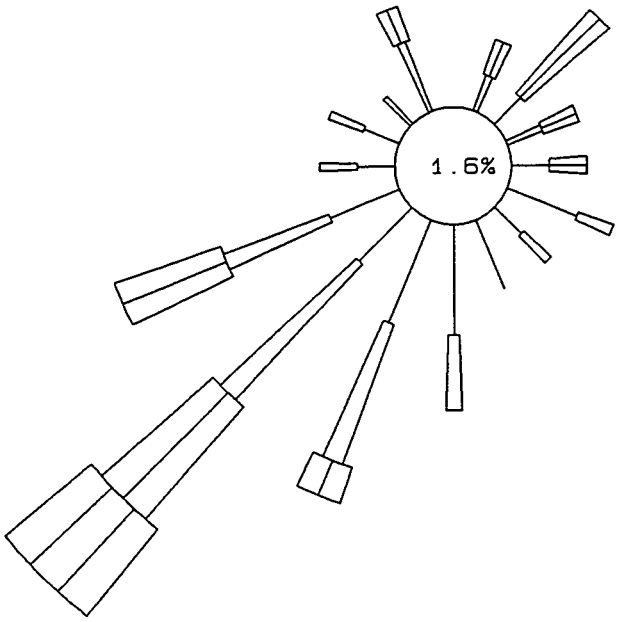
WIND SPEED CLASSES (MPS)

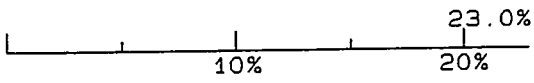
CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

100.0% DATA RECOVERED
OF WHICH 10.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
4/ 1/1994 - 4/30/1994
0 - 2300

N



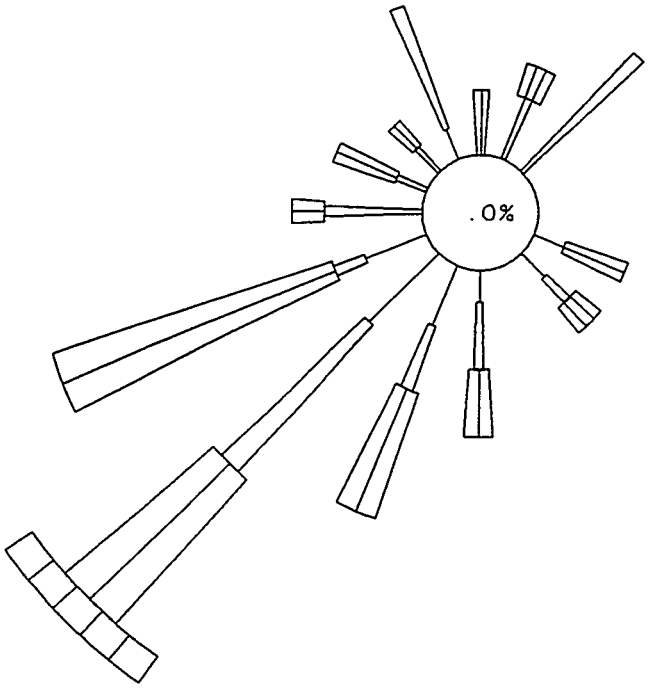


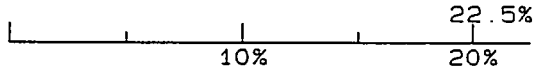
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.9% DATA RECOVERED
OF WHICH 8.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
5/ 1/1994 - 5/31/1994
0 - 2300



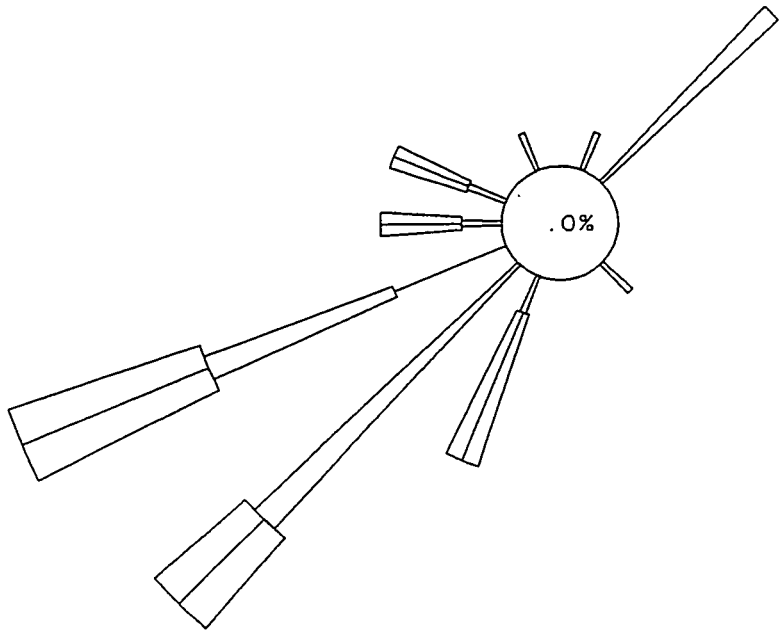


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.9% DATA RECOVERED
OF WHICH 9.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
6/ 1/1994 - 6/30/1994
0 - 2300

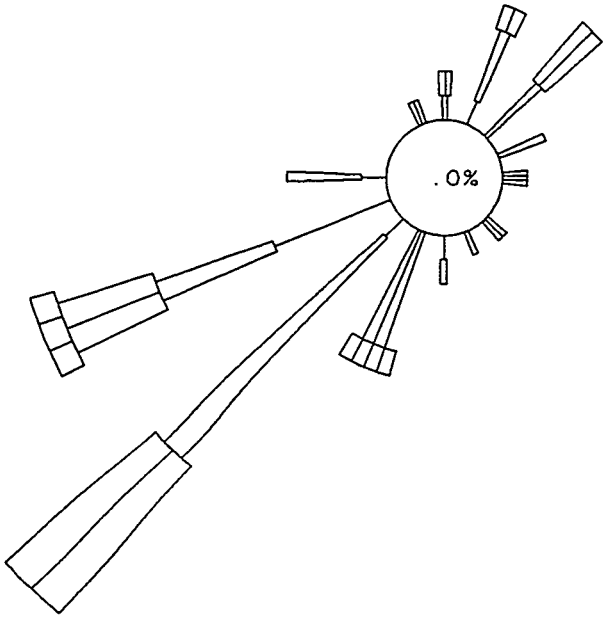


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 6.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
7/ 1/1994 - 7/31/1994
0 - 2300



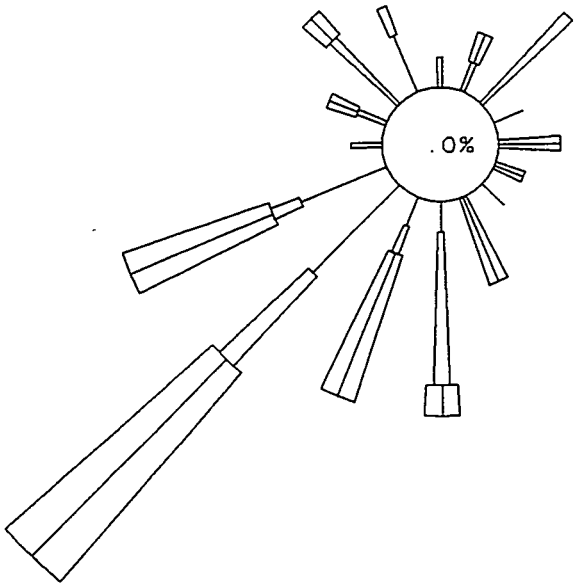
WIND SPEED CLASSES (MPS)

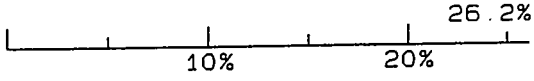
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 9.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
8/ 1/1994 - 8/31/1994
0 - 2300

N



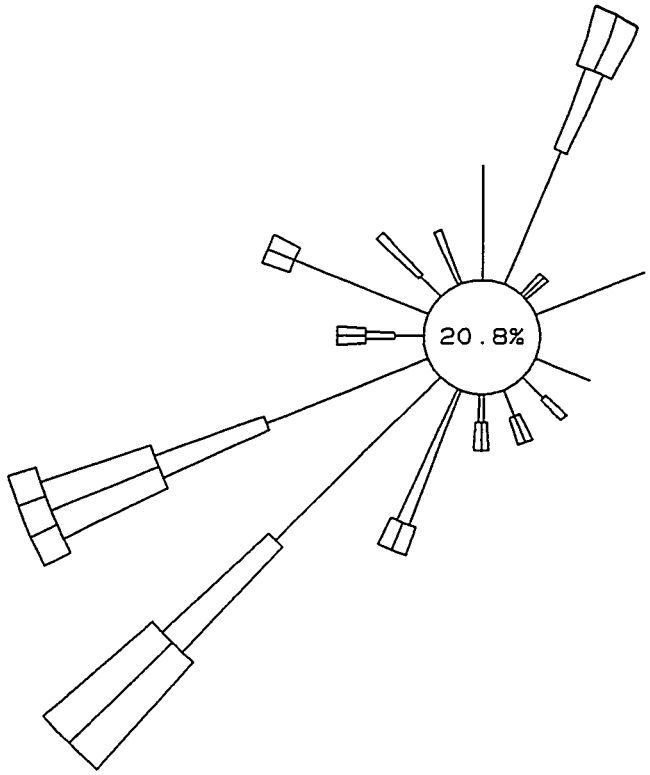


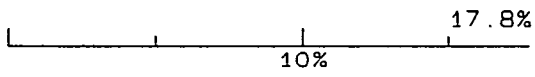
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

100.0% DATA RECOVERED
OF WHICH 8.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
9/ 1/1994 - 9/30/1994
0 - 2300





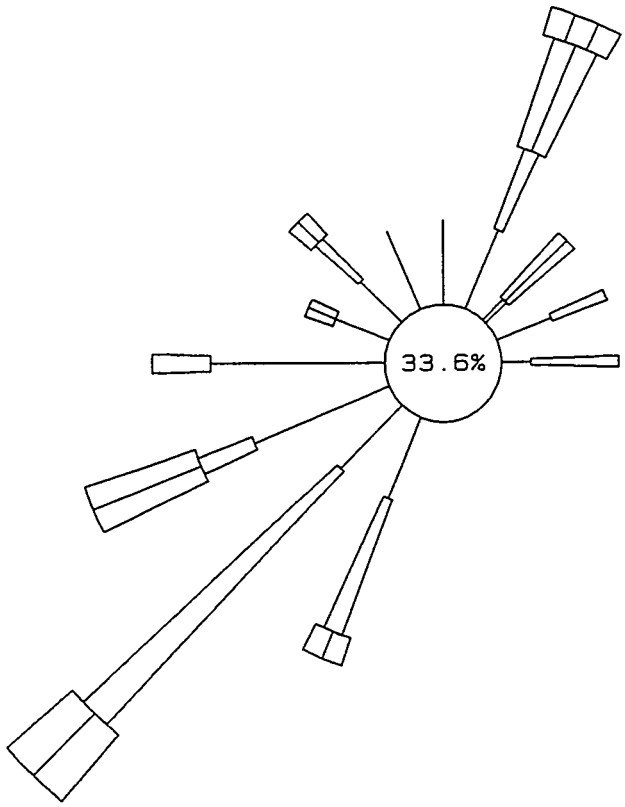
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.2% DATA RECOVERED
OF WHICH 14.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
10/ 1/1994 - 10/31/1994
0 - 2300

N



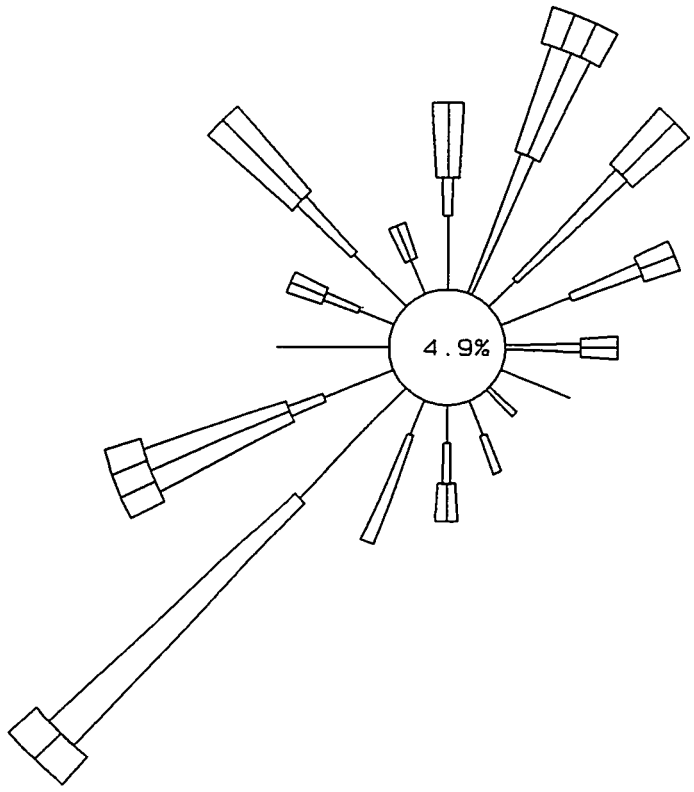
14.4%
10%

WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

98.5% DATA RECOVERED
OF WHICH 17.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
11/ 1/1994 - 11/30/1994
0 - 2300

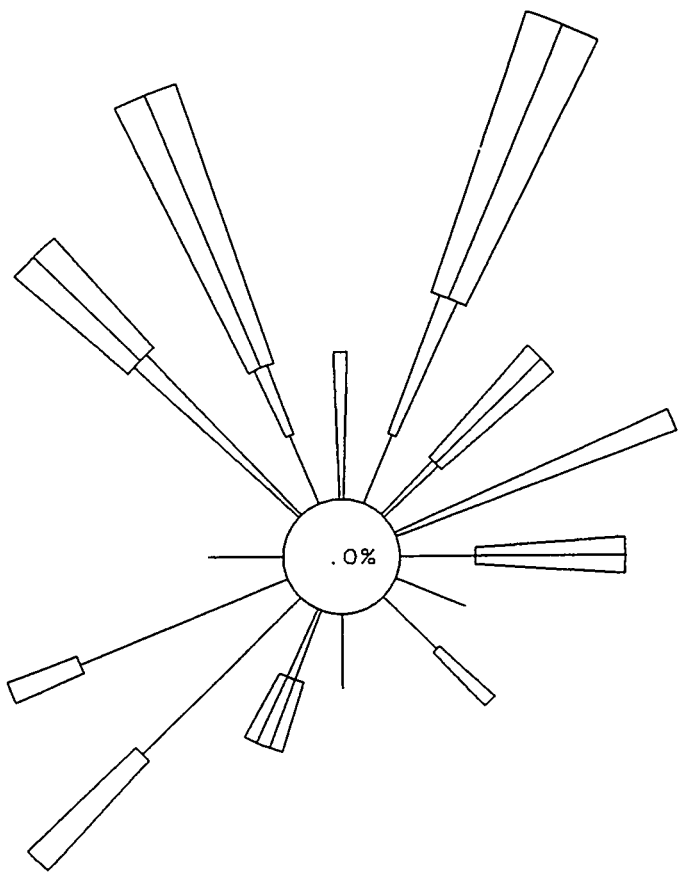


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.7% DATA RECOVERED
OF WHICH 11.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
12/ 1/1994 - 12/31/1994
0 - 2300



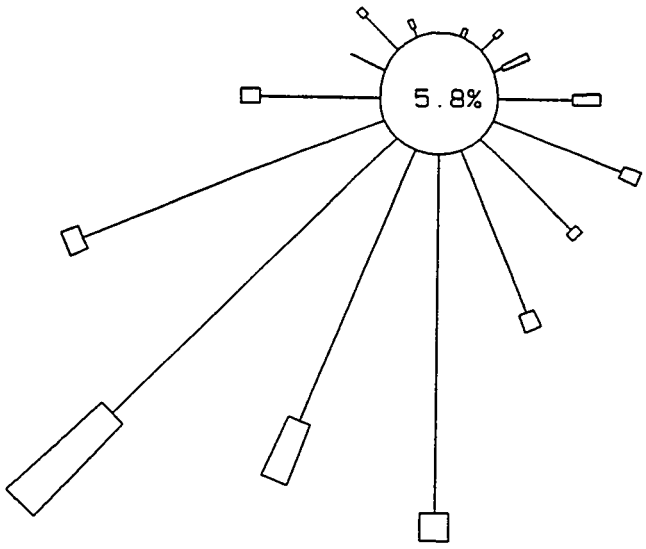
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

65.1% DATA RECOVERED
OF WHICH 9.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
1/ 1/1994 - 1/31/1994
0 - 2300

N



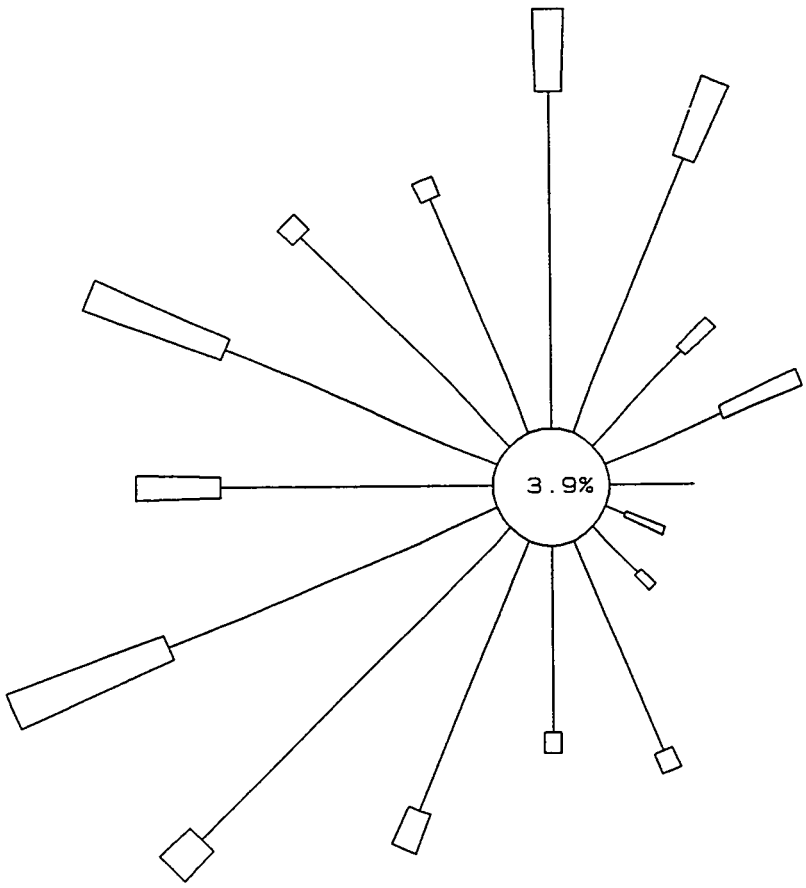
19.6%
10%

WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

78.0% DATA RECOVERED
OF WHICH 50.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
2/ 1/1994 - 2/28/1994
0 - 2300



11.0%
10%

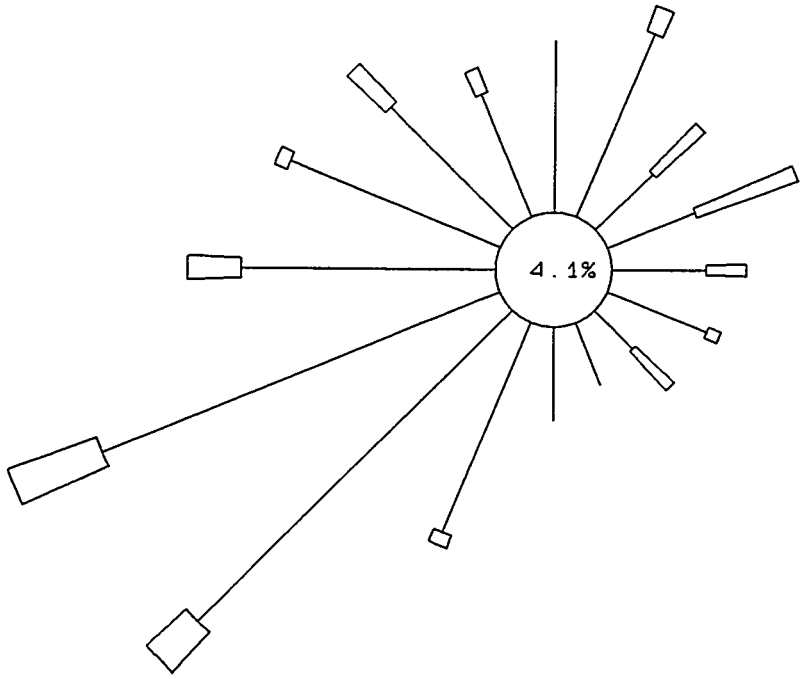
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

85.4% DATA RECOVERED
OF WHICH 39.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
3/ 1/1994 - 3/31/1994
0 - 2300

N



14.4%
10%

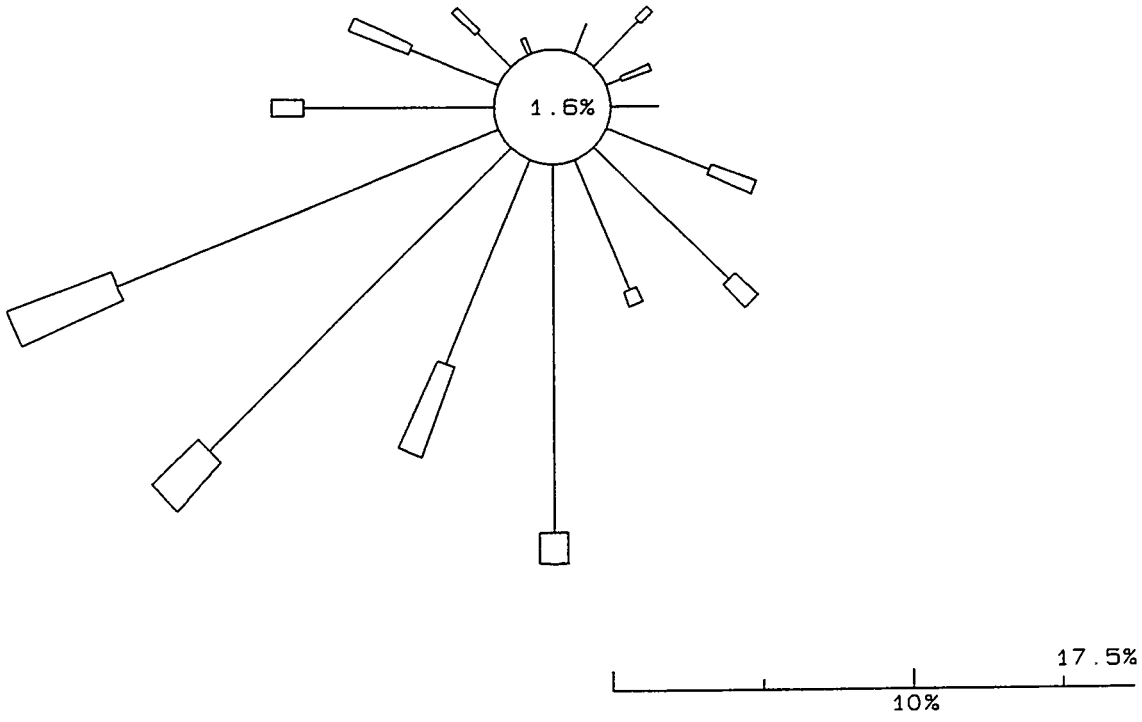
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	O	1.8< WS <= 3.3
3	⊟	3.3< WS <= 5.4
4	⊟⊟	5.4< WS <= 8.5
5	⊟⊟⊟	8.5< WS <=10.8
6	⊟⊟⊟⊟	10.8< WS

100.0% DATA RECOVERED
OF WHICH 36.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
4/ 1/1994 - 4/30/1994
0 - 2300

N

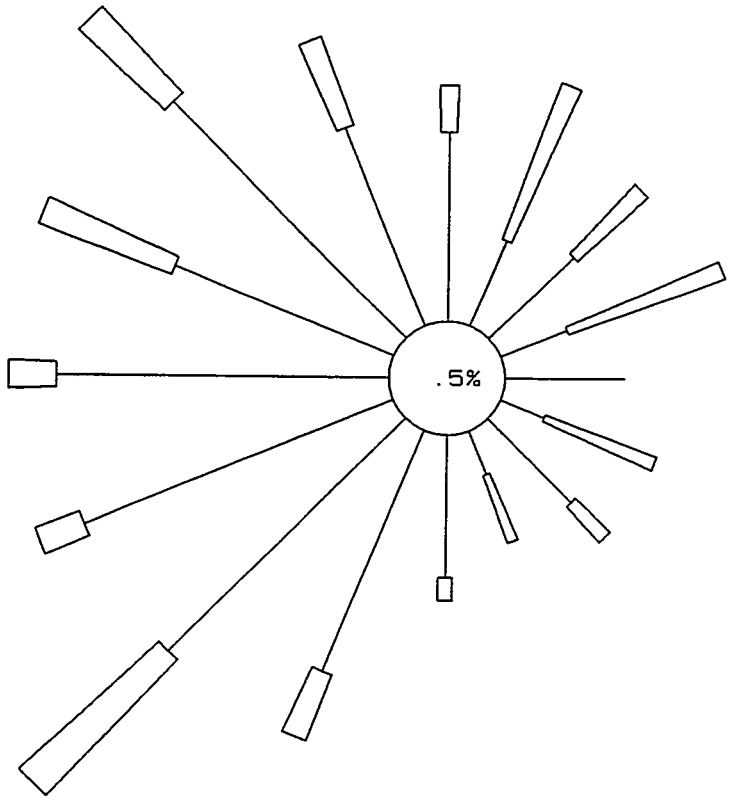


WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.9% DATA RECOVERED
OF WHICH 26.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
5/ 1/1994 - 5/31/1994
0 - 2300



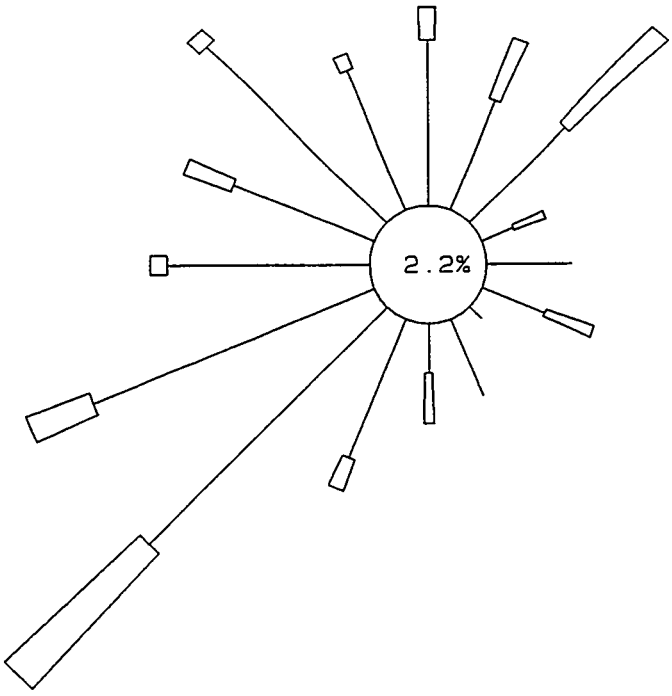
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.9% DATA RECOVERED
OF WHICH 26.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
6/ 1/1994 - 6/30/1994
0 - 2300

N



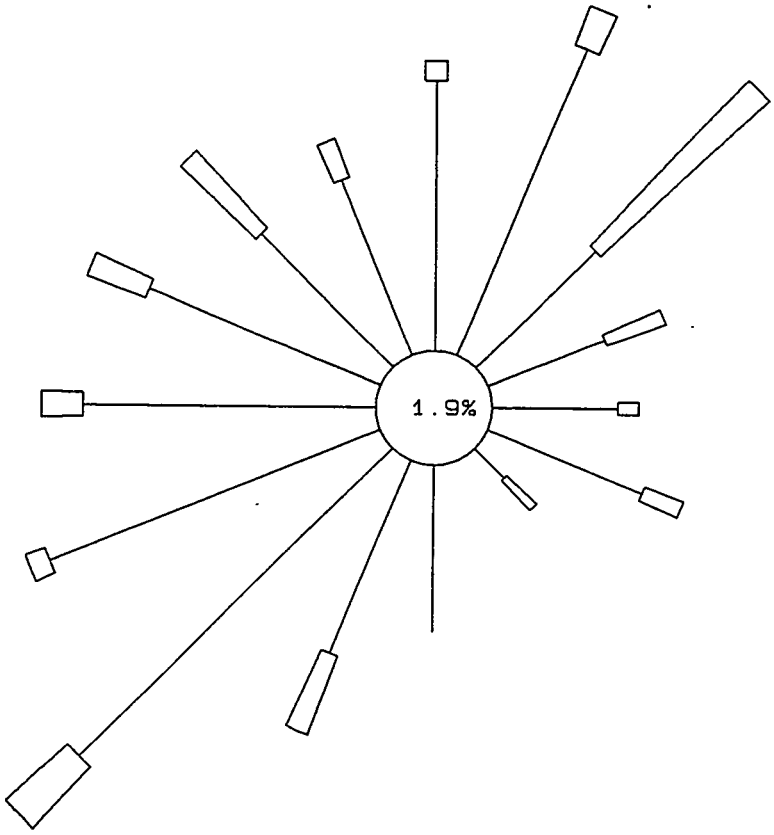
16.7%
10%

WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 25.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
7/ 1/1994 - 7/31/1994
0 - 2300



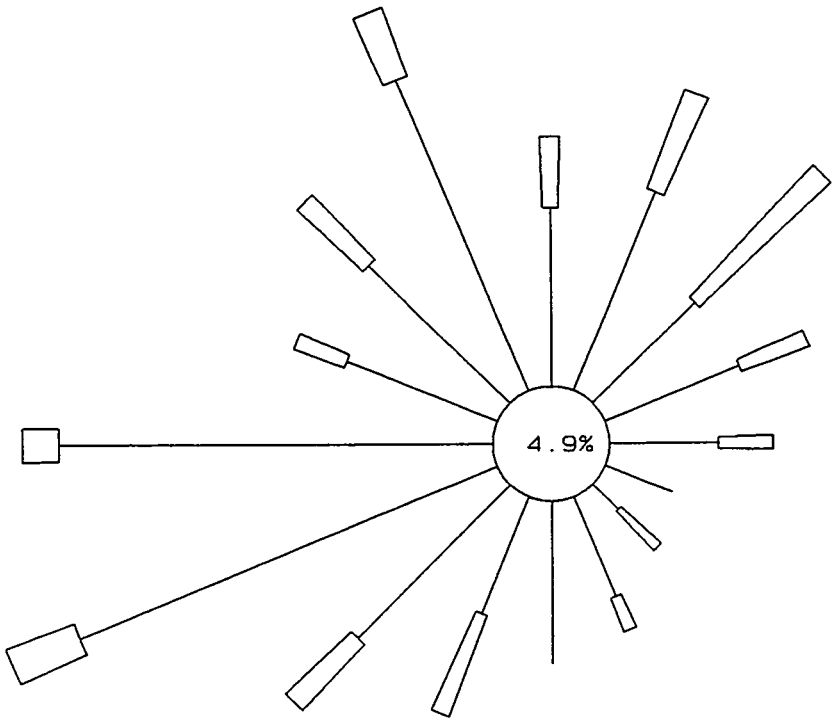
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 27.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
8/ 1/1994 - 8/31/1994
0 - 2300

N



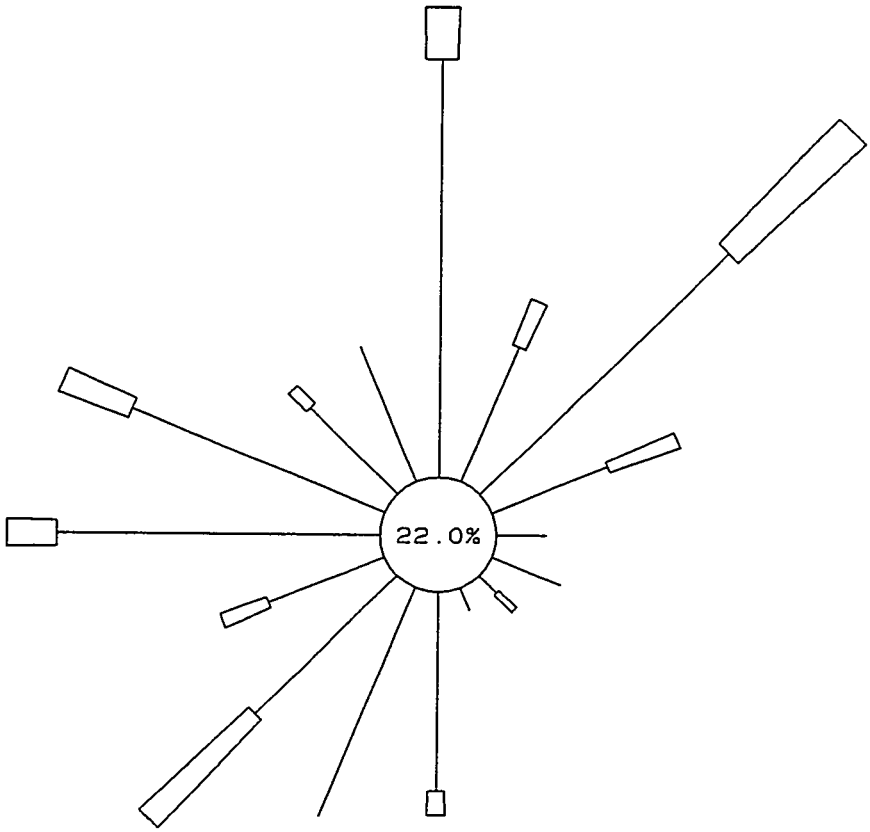
11.8%
10%

WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 32.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
9/ 1/1994 - 9/30/1994
0 - 2300



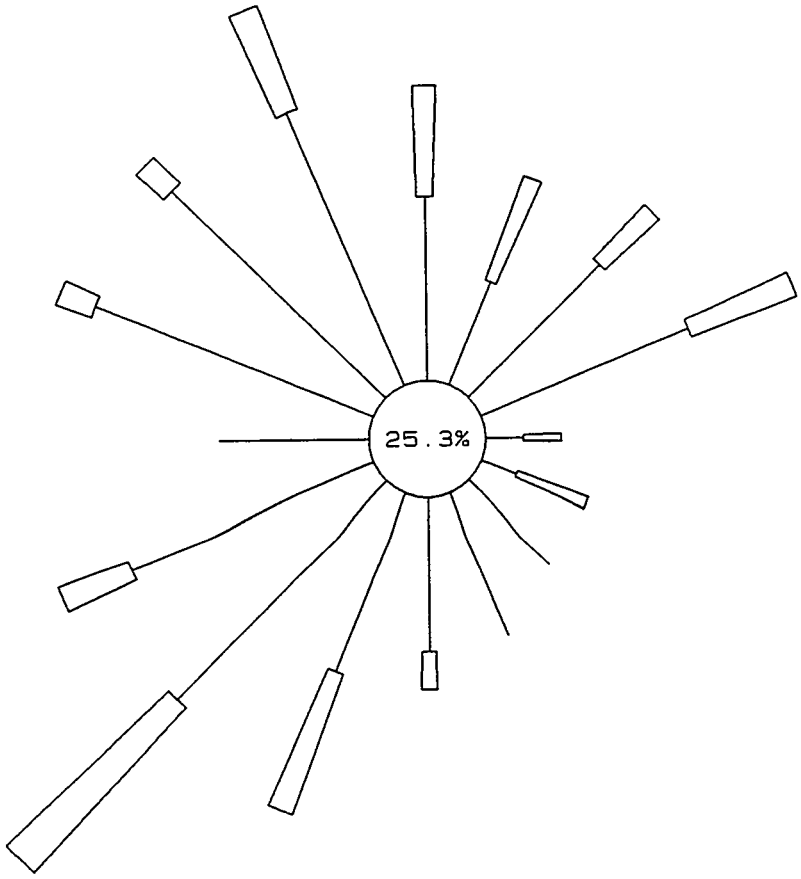
11.3%
10%

WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.2% DATA RECOVERED
OF WHICH 26.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
10/ 1/1994 - 10/31/1994
0 - 2300

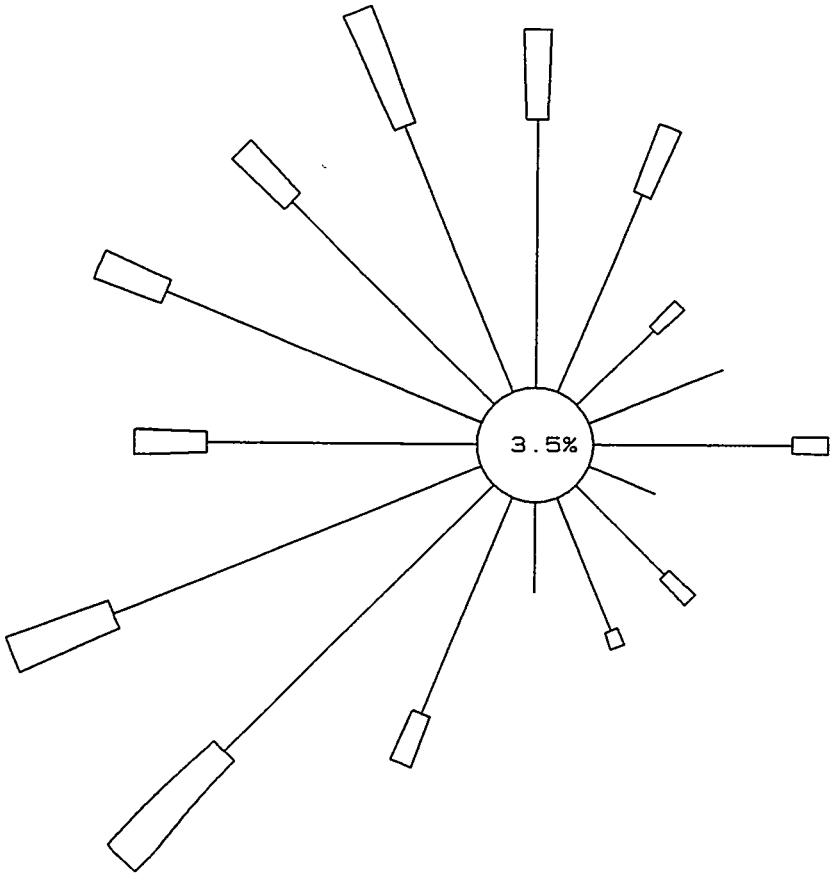


WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

98.5% DATA RECOVERED
OF WHICH 20.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
11/ 1/1994 - 11/30/1994
0 - 2300



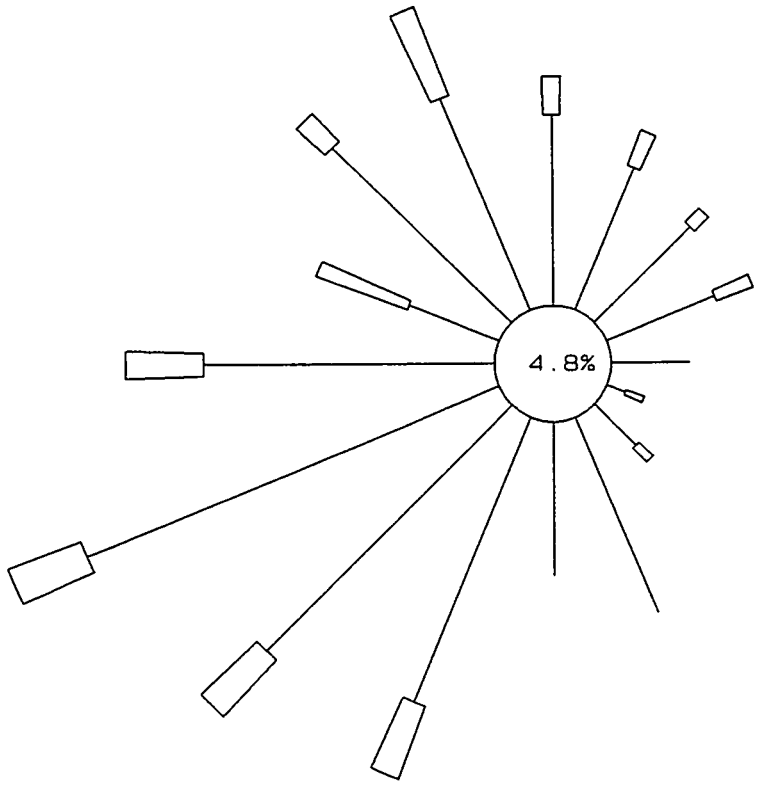
WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

99.7% DATA RECOVERED
OF WHICH 36.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
12/ 1/1994 - 12/31/1994
0 - 2300

N



13 0%
10%

WIND SPEED CLASSES (MPS)

CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

65.1% DATA RECOVERED
OF WHICH 42.8% IS
REPORTED ABOVE

APPENDIX C: MONTHLY WIND FREQUENCY DISTRIBUTIONS, TWO AND EIGHT METERS

Two Meters

1-12	Total Hours (0000-2400), January-December, 1994
13-24	Morning Transition (0600-1000), January-December 1994
25-36	Late Mid-day (1000-1600), January-December, 1994
37-48	Evening Transition (1600-2000), January-December 1994
49-60	Night Time (2000-0600), January-December, 1994
61-72	All Stability Class A (Yamartino Sigma Theta), January-December, 1994
73-84	All Stability Class B (Yamartino Sigma Theta), January-December, 1994
85-96	All Stability Class C (Yamartino Sigma Theta), January-December, 1994
97-108	All Stability Class D (Yamartino Sigma Theta), January-December, 1994
109-120	All Stability Class E (Yamartino Sigma Theta), January-December, 1994
121-132	All Stability Class F (Yamartino Sigma Theta), January-December, 1994

Eight Meters

133-144	Total Hours (0000-2400), January-December, 1994
145-156	Morning Transition (0600-1000), January-December 1994
157-168	Late Mid-day (1000-1600), January-December, 1994
169-180	Evening Transition (1600-2000), January-December 1994
181-192	Night Time (2000-0600), January-December, 1994
193-204	All Stability Class A (Yamartino Sigma Theta), January-December, 1994
205-216	All Stability Class B (Yamartino Sigma Theta), January-December, 1994

APPENDIX C: MONTHLY WIND FREQUENCY DISTRIBUTIONS, TWO AND EIGHT METERS (con't)

217-228 All Stability Class C (Yamartino Sigma Theta), January-December, 1994

229-240 All Stability Class D (Yamartino Sigma Theta), January-December, 1994

241-252 All Stability Class E (Yamartino Sigma Theta), January-December, 1994

253-264 All Stability Class F (Yamartino Sigma Theta), January-December, 1994

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 1/ 1/1994 - 1/31/1994
0 - 2300 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.5	.2	.0	.0	.7	4.8	N
NNE	2	.2	1.0	1.9	1.2	.0	.0	4.3	4.4	NNE
NE	3	1.2	1.4	.5	.2	.0	.0	3.3	2.4	NE
ENE	4	4.7	1.6	.2	.0	.0	.0	6.4	1.4	ENE
E	5	5.0	.5	.2	.0	.0	.0	5.7	1.2	E
ESE	6	4.8	1.2	.5	.2	.0	.0	6.7	1.5	ESE
SE	7	5.2	.5	.0	.0	.0	.0	5.7	1.1	SE
SSE	8	7.2	.2	.0	.0	.0	.0	7.4	.9	SSE
S	9	9.3	.9	.7	.0	.0	.0	10.9	1.2	S
SSW	10	11.2	1.4	.3	.0	.0	.0	12.9	1.2	SSW
SW	11	13.1	.7	.2	.0	.0	.0	14.0	1.1	SW
WSW	12	7.4	.5	.3	.0	.0	.0	8.3	1.2	WSW
W	13	3.8	.2	.0	.0	.0	.0	4.0	1.1	W
WNW	14	1.0	.0	.0	.0	.0	.0	1.0	1.2	WNW
NW	15	1.2	.5	.0	.0	.0	.0	1.7	1.5	NW
NNW	16	.2	.2	.0	.0	.5	.0	.9	6.5	NNW
CALM		6.2							6.2	
TOTAL		81.7	10.7	5.3	1.7	.5	.0	100.0	1.4	

78.0% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 2/ 1/1994 - 2/28/1994
0 - 2300 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.8	1.0	2.1	.3	.0	.0	6.3	2.7	N
NNE	2	4.2	.7	4.0	.9	.0	.0	9.8	3.0	NNE
NE	3	3.5	1.6	.7	.0	.0	.0	5.7	1.8	NE
ENE	4	5.9	1.4	.0	.0	.0	.0	7.3	1.3	ENE
E	5	3.7	.7	.5	.0	.0	.0	4.9	1.6	E
ESE	6	2.4	.5	.0	.0	.0	.0	3.0	1.2	ESE
SE	7	2.6	.9	.2	.0	.0	.0	3.7	1.4	SE
SSE	8	2.1	.5	.0	.0	.2	.0	2.8	1.5	SSE
S	9	4.7	.5	.7	1.2	.0	.0	7.1	2.4	S
SSW	10	7.5	.5	1.6	1.0	.0	.0	10.6	2.1	SSW
SW	11	7.7	1.6	.9	.0	.0	.0	10.1	1.5	SW
WSW	12	5.4	.9	.5	.3	.0	.0	7.1	1.6	WSW
W	13	4.7	.2	.0	.0	.0	.0	4.9	1.0	W
WNW	14	4.7	.7	.3	.5	.2	.0	6.4	2.2	WNW
NW	15	3.5	.7	.0	.5	.0	.0	4.7	2.0	NW
NNW	16	2.6	.0	.2	.5	.0	.0	3.3	2.0	NNW
CALM		2.3							2.3	
TOTAL		70.2	12.4	11.7	5.4	.3	.0	100.0	1.9	

85.4% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 3/ 1/1994 - 3/31/1994
0 - 2300 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.0	.4	.8	.4	.5	.1	5.2	3.3	N
NNE	2	2.4	1.1	1.7	2.6	.0	.1	7.9	4.1	NNE
NE	3	3.2	2.0	1.7	.7	.0	.0	7.7	2.6	NE
ENE	4	3.0	1.2	.4	.0	.0	.0	4.6	1.8	ENE
E	5	3.0	1.1	.4	.0	.0	.0	4.4	1.7	E
ESE	6	2.0	.8	.0	.0	.0	.0	2.8	1.4	ESE
SE	7	2.6	.9	.0	.0	.0	.0	3.5	1.5	SE
SSE	8	2.4	.3	.0	.0	.0	.0	2.7	1.2	SSE
S	9	2.8	.9	.4	.7	.1	.0	5.0	2.6	S
SSW	10	6.5	2.2	.9	3.6	.8	.9	14.9	4.2	SSW
SW	11	7.5	2.3	2.3	3.1	.7	.0	15.9	3.3	SW
WSW	12	6.0	.8	.0	.0	.0	.0	6.9	1.3	WSW
W	13	3.6	.8	.0	.0	.0	.0	4.4	1.3	W
WNW	14	3.0	.3	.1	.0	.0	.0	3.4	1.3	WNW
NW	15	2.6	.8	.1	.1	.0	.0	3.6	1.7	NW
NNW	16	2.2	.8	.5	.0	.0	.0	3.5	1.8	NNW
CALM		3.6							3.6	
TOTAL		59.3	16.7	9.5	11.2	2.2	1.2	100.0	2.6	

100.0% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 4/ 1/1994 - 4/30/1994
0 - 2300 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.1	.1	.3	.4	.1	.0	1.1	4.8	N
NNE	2	.1	.4	.8	.4	.6	.0	2.4	5.4	NNE
NE	3	1.5	.3	.8	.0	.0	.0	2.7	2.3	NE
ENE	4	1.5	.4	.0	.0	.0	.0	2.0	1.6	ENE
E	5	2.7	1.1	.4	.4	.0	.0	4.6	2.2	E
ESE	6	2.5	1.5	.3	.1	.0	.0	4.5	2.0	ESE
SE	7	3.6	1.5	.4	.1	.0	.0	5.7	1.7	SE
SSE	8	5.9	1.3	.4	.0	.0	.0	7.5	1.5	SSE
S	9	5.9	1.5	.7	.3	.1	.0	8.5	1.8	S
SSW	10	6.3	2.4	2.7	2.7	1.8	2.0	17.7	4.8	SSW
SW	11	7.7	2.5	5.6	2.9	1.0	.3	20.0	3.5	SW
WSW	12	6.4	1.4	1.4	.7	.0	.0	9.9	2.1	WSW
W	13	2.8	1.3	.7	.6	.0	.0	5.3	2.4	W
WNW	14	1.4	.7	.0	.1	.0	.0	2.2	1.9	WNW
NW	15	1.7	.7	.1	.0	.4	.0	2.9	2.8	NW
NNW	16	.1	.1	.4	.6	.0	.1	1.4	5.6	NNW
CALM		1.5							1.5	
TOTAL		51.8	17.3	15.1	9.4	4.1	2.4	100.0	2.9	

99.4% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 5/ 1/1994 - 5/31/1994
0 - 2300 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.5	.3	.7	.0	.0	.0	4.4	1.6	N
NNE	2	3.7	.4	.3	.1	.0	.0	4.6	1.5	NNE
NE	3	2.4	1.0	.3	.0	.0	.0	3.6	1.7	NE
ENE	4	1.5	.8	.1	.0	.0	.0	2.5	1.6	ENE
E	5	1.5	.6	.4	.0	.0	.0	2.5	1.9	E
ESE	6	2.5	1.9	.3	.0	.0	.0	4.7	1.7	ESE
SE	7	1.7	.4	1.0	.4	.0	.0	3.5	2.8	SE
SSE	8	2.1	1.1	1.4	.1	.0	.0	4.7	2.4	SSE
S	9	2.8	1.4	1.0	.3	.3	.0	5.7	2.6	S
SSW	10	2.8	1.2	1.8	3.6	1.7	1.5	12.6	5.8	SSW
SW	11	6.8	2.8	5.4	5.8	3.5	.4	24.7	4.6	SW
WSW	12	3.5	1.2	2.6	.7	.0	.0	8.0	2.8	WSW
W	13	2.9	.4	.1	.3	.0	.0	3.7	1.7	W
WNW	14	3.3	.6	.3	.0	.0	.0	4.2	1.4	WNW
NW	15	3.3	.8	.4	.0	.0	.0	4.6	1.7	NW
NNW	16	2.6	.8	.3	.1	.0	.0	3.9	1.8	NNW
CALM		2.1							2.1	
TOTAL		49.0	15.8	16.4	11.5	5.4	1.9	100.0	3.1	

96.9% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 6/ 1/1994 - 6/30/1994
0 - 2300 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.2	.1	.0	.0	.0	.0	2.4	1.1	N
NNE	2	2.9	.4	.3	.1	.0	.0	3.8	1.7	NNE
NE	3	5.6	.1	.0	.0	.0	.0	5.7	1.1	NE
ENE	4	3.5	.4	.0	.0	.0	.0	3.9	1.2	ENE
E	5	2.2	.8	.0	.0	.0	.0	3.1	1.4	E
ESE	6	.8	.7	.0	.0	.0	.0	1.5	1.7	ESE
SE	7	.8	.8	.0	.0	.0	.0	1.7	1.8	SE
SSE	8	1.4	.1	.1	.0	.0	.0	1.7	1.5	SSE
S	9	2.1	.8	.3	.0	.0	.0	3.2	1.7	S
SSW	10	3.8	1.3	2.5	3.8	2.6	.1	14.0	5.0	SSW
SW	11	6.1	3.5	5.4	16.0	3.6	.8	35.4	5.5	SW
WSW	12	3.5	1.7	2.4	1.1	.7	.1	9.4	3.5	WSW
W	13	3.2	.4	.1	.0	.0	.0	3.8	1.3	W
WNW	14	2.8	.6	.6	.0	.0	.0	3.9	1.6	WNW
NW	15	1.3	.6	.0	.0	.0	.0	1.8	1.4	NW
NNW	16	2.2	.1	.0	.0	.0	.0	2.4	1.1	NNW
CALM		2.5							2.5	
TOTAL		46.8	12.5	11.7	21.0	6.9	1.1	100.0	3.5	

100.0% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 7/ 1/1994 - 7/31/1994
0 - 2300 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.6	.1	.1	.0	.0	.0	2.8	1.2	N
NNE	2	3.6	.5	.5	.0	.0	.0	4.7	1.7	NNE
NE	3	4.3	2.2	.0	.0	.0	.0	6.5	1.6	NE
ENE	4	5.0	.7	.0	.0	.0	.0	5.6	1.3	ENE
E	5	3.4	.3	.0	.1	.0	.0	3.8	1.4	E
ESE	6	.7	.1	.0	.1	.0	.0	.9	2.3	ESE
SE	7	2.6	.7	.5	.3	.0	.0	4.0	2.0	SE
SSE	8	1.7	.7	.1	.0	.0	.0	2.6	1.6	SSE
S	9	1.6	1.3	.1	.1	.1	.0	3.4	2.3	S
SSW	10	4.4	2.2	3.9	3.6	.5	.0	14.7	3.9	SSW
SW	11	5.5	2.8	7.3	12.8	1.2	.0	29.6	4.8	SW
WSW	12	2.7	1.3	.8	.1	.0	.0	5.0	2.0	WSW
W	13	3.9	.3	.1	.0	.0	.0	4.3	1.2	W
WNW	14	2.7	.3	.0	.0	.0	.0	3.0	1.1	WNW
NW	15	2.8	.4	.1	.0	.0	.0	3.4	1.3	NW
NNW	16	1.9	.1	.0	.0	.0	.0	2.0	1.2	NNW
CALM		3.9							3.9	
TOTAL		53.2	14.0	13.7	17.2	1.9	.0	100.0	2.8	

100.0% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 8/ 1/1994 - 8/31/1994
0 - 2300 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.2	.8	.0	.0	.0	.0	3.0	1.6	N
NNE	2	4.7	1.1	.3	.1	.0	.0	6.2	1.6	NNE
NE	3	5.2	.5	.0	.0	.0	.0	5.8	1.2	NE
ENE	4	2.8	.8	.0	.0	.0	.0	3.6	1.5	ENE
E	5	3.1	.7	.1	.0	.0	.0	3.9	1.5	E
ESE	6	1.2	.3	.4	.0	.0	.0	1.9	2.1	ESE
SE	7	1.6	.7	1.7	.4	.0	.0	4.4	2.9	SE
SSE	8	1.2	.4	.4	.0	.0	.0	2.0	2.2	SSE
S	9	1.6	1.6	.5	1.1	.1	.0	5.0	3.2	S
SSW	10	3.5	1.9	2.7	4.6	.5	.0	13.2	4.4	SSW
SW	11	5.0	1.5	5.1	10.9	1.7	.0	24.2	5.1	SW
WSW	12	5.0	.8	1.7	.3	.0	.0	7.8	2.2	WSW
W	13	3.1	.3	.0	.0	.0	.0	3.4	1.1	W
WNW	14	2.7	.3	.1	.0	.0	.0	3.1	1.3	WNW
NW	15	2.8	1.1	.1	.1	.0	.0	4.2	1.6	NW
NNW	16	3.9	.9	.1	.0	.0	.0	5.0	1.5	NNW
CALM		3.5							3.5	
TOTAL		53.1	13.6	13.4	17.5	2.4	.0	100.0	2.9	

100.0% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

9/ 1/1994 - 9/30/1994
0 - 2300 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.3	.4	.1	.4	.0	.0	5.3	1.7	N
NNE	2	4.2	.7	.7	.7	.0	.0	6.3	2.1	NNE
NE	3	4.3	1.1	.0	.0	.0	.0	5.4	1.4	NE
ENE	4	3.3	.3	.0	.0	.0	.0	3.6	1.1	ENE
E	5	1.8	.8	.0	.0	.0	.0	2.6	1.4	E
ESE	6	2.4	.4	.1	.0	.0	.0	2.9	1.4	ESE
SE	7	1.9	.4	.0	.0	.0	.0	2.4	1.3	SE
SSE	8	2.5	.3	.1	.0	.0	.0	2.9	1.3	SSE
S	9	4.0	.4	.4	.1	.0	.0	5.0	1.5	S
SSW	10	7.1	2.4	2.1	5.0	3.6	1.0	21.2	4.9	SSW
SW	11	6.8	1.9	4.9	4.2	.4	.4	18.7	3.8	SW
WSW	12	4.0	1.0	1.8	.1	.0	.0	7.0	2.2	WSW
W	13	3.1	.4	.0	.0	.0	.0	3.5	1.1	W
WNW	14	1.9	.7	.0	.0	.0	.0	2.6	1.4	WNW
NW	15	2.2	.3	.1	.0	.0	.0	2.6	1.2	NW
NNW	16	1.9	.8	.3	.3	.0	.0	3.3	2.3	NNW
CALM		4.6							4.6	
TOTAL		60.6	12.4	10.7	10.9	4.0	1.4	100.0	2.6	

99.7% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 10/ 1/1994 - 10/31/1994
0 - 2300 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.6	.7	.9	.4	.0	.0	5.6	2.1	N
NNE	2	2.2	2.0	2.0	1.1	.0	.0	7.3	3.2	NNE
NE	3	2.8	1.2	.5	.1	.0	.0	4.7	1.8	NE
ENE	4	3.8	1.3	.0	.0	.0	.0	5.1	1.4	ENE
E	5	3.4	.3	.0	.0	.0	.0	3.6	1.1	E
ESE	6	2.6	.1	.0	.0	.0	.0	2.7	1.0	ESE
SE	7	2.0	.4	.0	.0	.0	.0	2.4	1.3	SE
SSE	8	4.7	.1	.0	.0	.0	.0	4.8	1.0	SSE
S	9	4.6	.1	.4	.0	.0	.0	5.1	1.3	S
SSW	10	7.9	1.6	.8	1.5	.4	.1	12.4	2.5	SSW
SW	11	8.5	3.4	3.4	2.7	.5	.1	18.5	3.1	SW
WSW	12	6.6	1.1	.8	.4	.0	.0	8.9	1.6	WSW
W	13	4.7	.1	.1	.0	.0	.0	5.0	1.2	W
WNW	14	2.3	.7	.1	.0	.0	.0	3.1	1.4	WNW
NW	15	3.2	.3	.0	.0	.0	.0	3.5	1.0	NW
NNW	16	3.9	.4	.0	.3	.0	.0	4.6	1.4	NNW
CALM		2.7							2.7	
TOTAL		69.4	13.8	9.1	6.5	.9	.3	100.0	2.0	

100.0% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 11/ 1/1994 - 11/30/1994
0 - 2300 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.5	1.3	.1	.6	.0	.0	5.4	2.1	N
NNE	2	3.9	1.8	1.9	1.3	.0	.0	8.9	2.8	NNE
NE	3	3.3	2.6	.4	.1	.0	.0	6.5	2.0	NE
ENE	4	3.1	1.3	.3	.0	.0	.0	4.6	1.5	ENE
E	5	5.1	.8	.1	.0	.0	.0	6.1	1.3	E
ESE	6	2.8	.3	.0	.0	.0	.0	3.1	1.1	ESE
SE	7	2.2	1.3	.3	.0	.0	.0	3.8	1.7	SE
SSE	8	2.5	.0	.1	.0	.0	.0	2.6	1.0	SSE
S	9	3.3	1.1	.3	.0	.0	.0	4.7	1.5	S
SSW	10	5.8	1.4	1.1	1.3	1.0	1.0	11.5	3.8	SSW
SW	11	8.5	1.4	1.1	2.9	.6	.0	14.4	3.0	SW
WSW	12	4.6	.3	1.4	.3	.1	.0	6.7	2.1	WSW
W	13	2.9	.1	.1	.0	.0	.0	3.2	1.4	W
WNW	14	3.3	.7	.1	.4	.0	.0	4.6	1.8	WNW
NW	15	4.0	1.3	.0	.7	.0	.0	6.0	2.1	NW
NNW	16	3.8	1.0	.4	.7	.0	.0	5.8	2.2	NNW
CALM		2.1							2.1	
TOTAL		64.7	16.5	7.9	8.2	1.7	1.0	100.0	2.2	

100.0% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 12/ 1/1994 - 12/31/1994
0 - 2300 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.9	1.4	.6	.2	.0	.0	6.2	1.9	N
NNE	2	4.8	2.3	2.5	1.2	.0	.0	10.7	2.6	NNE
NE	3	3.1	1.9	2.3	.4	.0	.0	7.6	2.6	NE
ENE	4	5.6	1.0	.0	.0	.0	.0	6.6	1.3	ENE
E	5	4.1	.8	.2	.0	.0	.0	5.2	1.3	E
ESE	6	1.9	.6	.0	.0	.0	.0	2.5	1.3	ESE
SE	7	3.3	1.2	1.0	.0	.0	.0	5.6	1.9	SE
SSE	8	2.5	.0	.0	.0	.0	.0	2.5	.8	SSE
S	9	4.1	.0	.0	.2	.0	.0	4.3	1.1	S
SSW	10	5.6	.8	.2	.0	.0	.0	6.6	1.4	SSW
SW	11	7.9	1.4	.6	.0	.0	.0	9.9	1.5	SW
WSW	12	6.2	.2	.0	.0	.0	.0	6.4	1.1	WSW
W	13	3.9	.4	.0	.0	.0	.0	4.3	1.1	W
WNW	14	4.5	1.0	.2	.0	.0	.0	5.8	1.6	WNW
NW	15	4.5	1.2	.2	.0	.0	.0	6.0	1.4	NW
NNW	16	4.5	1.7	.0	.0	.0	.0	6.2	1.6	NNW
CALM		3.5							3.5	
TOTAL		74.0	16.1	7.9	2.1	.0	.0	100.0	1.6	

65.1% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition 1/ 1/1994 - 1/31/1994
600 - 1000 (HST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	1.7	.8	.0	.0	2.5	4.8	NNE
NE	3	2.5	.8	.8	.0	.0	.0	4.2	1.7	NE
ENE	4	7.5	.8	.0	.0	.0	.0	8.3	1.0	ENE
E	5	8.3	.0	.0	.0	.0	.0	8.3	1.0	E
ESE	6	5.8	.8	.0	.0	.0	.0	6.7	1.0	ESE
SE	7	8.3	.0	.0	.0	.0	.0	8.3	.8	SE
SSE	8	5.8	.0	.0	.0	.0	.0	5.8	.8	SSE
S	9	6.7	.0	.0	.0	.0	.0	6.7	.8	S
SSW	10	10.8	.8	.0	.0	.0	.0	11.7	.9	SSW
SW	11	15.0	.0	.0	.0	.0	.0	15.0	1.0	SW
WSW	12	5.8	.0	.0	.0	.0	.0	5.8	1.1	WSW
W	13	1.7	.0	.0	.0	.0	.0	1.7	1.0	W
WNW	14	1.7	.0	.0	.0	.0	.0	1.7	.7	WNW
NW	15	2.5	.0	.0	.0	.0	.0	2.5	1.0	NW
NNW	16	.0	.8	.0	.0	.0	.0	.8	2.8	NNW
CALM		10.0							10.0	
TOTAL		92.5	4.2	2.5	.8	.0	.0	100.0	1.0	

78.0% DATA RECOVERED
20.7% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition 2/ 1/1994 - 2/28/1994
600 - 1000 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.9	.0	.9	.0	.0	.0	1.8	2.8	N
NNE	2	2.7	.0	4.5	.0	.0	.0	7.2	3.0	NNE
NE	3	7.2	1.8	.0	.0	.0	.0	9.0	1.2	NE
ENE	4	10.8	.0	.0	.0	.0	.0	10.8	1.0	ENE
E	5	7.2	.0	.0	.0	.0	.0	7.2	.9	E
ESE	6	3.6	.0	.0	.0	.0	.0	3.6	.8	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.9	.0	.0	.0	.0	.0	.9	.7	SSE
S	9	5.4	.0	.0	.0	.0	.0	5.4	1.0	S
SSW	10	9.9	.0	1.8	2.7	.0	.0	14.4	2.2	SSW
SW	11	7.2	.0	.0	.0	.0	.0	7.2	.9	SW
WSW	12	3.6	1.8	.0	.0	.0	.0	5.4	1.4	WSW
W	13	6.3	.0	.0	.0	.0	.0	6.3	.9	W
WNW	14	4.5	.0	.0	.9	.0	.0	5.4	2.1	WNW
NW	15	5.4	.9	.0	.9	.0	.0	7.2	2.0	NW
NNW	16	4.5	.0	.9	.0	.0	.0	5.4	1.2	NNW
CALM		2.7							2.7	
TOTAL		82.9	4.5	8.1	4.5	.0	.0	100.0	1.5	

85.4% DATA RECOVERED
19.3% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition 3/ 1/1994 - 3/31/1994
600 - 1000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.6	.0	1.3	.0	.0	.0	3.9	2.2	N
NNE	2	2.6	1.9	1.9	1.9	.0	.0	8.4	3.5	NNE
NE	3	7.1	1.3	2.6	.0	.0	.0	11.0	1.9	NE
ENE	4	5.2	1.3	.6	.0	.0	.0	7.1	1.5	ENE
E	5	3.9	1.3	.6	.0	.0	.0	5.8	1.6	E
ESE	6	3.2	.0	.0	.0	.0	.0	3.2	.8	ESE
SE	7	3.2	.6	.0	.0	.0	.0	3.9	1.5	SE
SSE	8	1.9	.6	.0	.0	.0	.0	2.6	1.7	SSE
S	9	3.9	.6	.0	1.3	.6	.0	6.5	3.3	S
SSW	10	5.8	.0	1.3	1.9	1.3	1.9	12.3	5.2	SSW
SW	11	5.8	1.9	.0	1.9	1.3	.0	11.0	3.3	SW
WSW	12	4.5	.0	.0	.0	.0	.0	4.5	1.0	WSW
W	13	2.6	.0	.0	.0	.0	.0	2.6	1.3	W
WNW	14	1.3	.0	.0	.0	.0	.0	1.3	.8	WNW
NW	15	1.9	.0	.0	.0	.0	.0	1.9	1.1	NW
NNW	16	.0	1.3	.0	.0	.0	.0	1.3	2.0	NNW
CALM		12.9							12.9	
TOTAL		68.4	11.0	8.4	7.1	3.2	1.9	100.0	2.3	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition 4/ 1/1994 - 4/30/1994
600 - 1000 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.7	.0	.0	.7	5.9	N
NNE	2	.0	.7	.7	.0	.0	.0	1.3	3.6	NNE
NE	3	.7	.0	.0	.0	.0	.0	.7	.9	NE
ENE	4	3.3	.0	.0	.0	.0	.0	3.3	1.2	ENE
E	5	6.7	1.3	.0	.0	.0	.0	8.0	1.3	E
ESE	6	3.3	.0	.7	.0	.0	.0	4.0	1.7	ESE
SE	7	8.0	1.3	1.3	.0	.0	.0	10.7	1.5	SE
SSE	8	8.7	.0	.7	.0	.0	.0	9.3	1.3	SSE
S	9	8.0	1.3	.0	.7	.0	.0	10.0	1.4	S
SSW	10	8.7	3.3	2.0	2.0	2.0	2.0	20.0	4.2	SSW
SW	11	7.3	1.3	2.7	1.3	2.7	.0	15.3	3.8	SW
WSW	12	4.0	1.3	.0	.0	.0	.0	5.3	1.3	WSW
W	13	2.7	.0	.7	.0	.0	.0	3.3	1.6	W
WNW	14	.7	.7	.0	.0	.0	.0	1.3	2.0	WNW
NW	15	.7	.0	.7	.0	.0	.0	1.3	3.1	NW
NNW	16	.0	.0	.0	.7	.0	.0	.7	6.2	NNW
CALM		4.7							4.7	
TOTAL		67.3	11.3	9.3	5.3	4.7	2.0	100.0	2.4	

99.4% DATA RECOVERED
20.9% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition 5/ 1/1994 - 5/31/1994
600 - 1000 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	6.7	.7	.7	.0	.0	.0	8.0	1.3	N
NNE	2	6.7	.0	.7	.0	.0	.0	7.3	1.1	NNE
NE	3	3.3	.0	.0	.0	.0	.0	3.3	.8	NE
ENE	4	3.3	.7	.0	.0	.0	.0	4.0	1.1	ENE
E	5	3.3	.0	.0	.0	.0	.0	3.3	1.2	E
ESE	6	6.7	2.7	.0	.0	.0	.0	9.3	1.3	ESE
SE	7	3.3	.7	.0	.0	.0	.0	4.0	1.2	SE
SSE	8	4.0	.7	.0	.0	.0	.0	4.7	1.2	SSE
S	9	6.0	.7	1.3	.7	.7	.0	9.3	2.6	S
SSW	10	3.3	1.3	.0	.7	2.7	.0	8.0	4.6	SSW
SW	11	7.3	2.7	2.7	4.0	2.7	1.3	20.7	4.7	SW
WSW	12	4.0	.0	.0	.0	.0	.0	4.0	.9	WSW
W	13	.7	.0	.0	.0	.0	.0	.7	.5	W
WNW	14	3.3	.7	.0	.0	.0	.0	4.0	1.2	WNW
NW	15	1.3	.7	.0	.0	.0	.0	2.0	1.5	NW
NNW	16	2.0	.0	.0	.0	.0	.0	2.0	.7	NNW
CALM		5.3							5.3	
TOTAL		70.7	11.3	5.3	5.3	6.0	1.3	100.0	2.2	

96.9% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition 6/ 1/1994 - 6/30/1994
600 - 1000 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.3	.0	.0	.0	.0	.0	1.3	.6	N
NNE	2	4.0	.0	1.3	.0	.0	.0	5.3	1.9	NNE
NE	3	10.0	.0	.0	.0	.0	.0	10.0	.9	NE
ENE	4	8.0	.0	.0	.0	.0	.0	8.0	.9	ENE
E	5	4.7	2.0	.0	.0	.0	.0	6.7	1.4	E
ESE	6	3.3	.7	.0	.0	.0	.0	4.0	1.3	ESE
SE	7	2.0	2.0	.0	.0	.0	.0	4.0	1.6	SE
SSE	8	3.3	.7	.7	.0	.0	.0	4.7	1.7	SSE
S	9	2.0	.7	.0	.0	.0	.0	2.7	1.4	S
SSW	10	4.7	1.3	3.3	.7	.0	.0	10.0	2.7	SSW
SW	11	1.3	3.3	2.7	9.3	.7	2.7	20.0	6.2	SW
WSW	12	2.7	.0	2.0	1.3	.7	.7	7.3	4.4	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.7	.0	.0	.0	.0	.7	2.2	WNW
NW	15	2.7	.0	.0	.0	.0	.0	2.7	.7	NW
NNW	16	1.3	.0	.0	.0	.0	.0	1.3	1.1	NNW
CALM		11.3							11.3	
TOTAL		62.7	11.3	10.0	11.3	1.3	3.3	100.0	2.5	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition 7/ 1/1994 - 7/31/1994
600 - 1000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.6	.0	.0	.0	.0	.0	2.6	.8	N
NNE	2	3.9	.6	1.3	.0	.0	.0	5.8	2.0	NNE
NE	3	5.2	1.3	.0	.0	.0	.0	6.5	1.2	NE
ENE	4	9.7	.0	.0	.0	.0	.0	9.7	1.0	ENE
E	5	6.5	.6	.0	.0	.0	.0	7.1	1.3	E
ESE	6	1.3	.6	.0	.0	.0	.0	1.9	1.5	ESE
SE	7	4.5	.0	1.3	.0	.0	.0	5.8	1.7	SE
SSE	8	2.6	.0	.6	.0	.0	.0	3.2	1.5	SSE
S	9	2.6	1.3	.0	.6	.0	.0	4.5	2.1	S
SSW	10	4.5	1.9	5.2	.6	.6	.0	12.9	3.1	SSW
SW	11	3.2	3.9	3.2	1.9	.0	.0	12.3	3.1	SW
WSW	12	1.9	.6	.0	.6	.0	.0	3.2	2.0	WSW
W	13	3.2	.0	.6	.0	.0	.0	3.9	1.4	W
WNW	14	.6	.0	.0	.0	.0	.0	.6	1.5	WNW
NW	15	3.2	.0	.6	.0	.0	.0	3.9	1.5	NW
NNW	16	1.9	.0	.0	.0	.0	.0	1.9	.9	NNW
CALM		14.2							14.2	
TOTAL		71.6	11.0	12.9	3.9	.6	.0	100.0	1.7	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition 8/ 1/1994 - 8/31/1994
600 - 1000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.2	.0	.0	.0	.0	.0	3.2	1.2	N
NNE	2	3.9	.6	.6	.0	.0	.0	5.2	1.3	NNE
NE	3	9.7	.0	.0	.0	.0	.0	9.7	.9	NE
ENE	4	7.1	.6	.0	.0	.0	.0	7.7	1.3	ENE
E	5	6.5	.6	.0	.0	.0	.0	7.1	1.1	E
ESE	6	3.2	.6	.6	.0	.0	.0	4.5	1.6	ESE
SE	7	5.2	.6	.6	1.9	.0	.0	8.4	2.5	SE
SSE	8	1.3	.6	1.3	.0	.0	.0	3.2	2.8	SSE
S	9	2.6	.6	.6	1.3	.0	.0	5.2	2.9	S
SSW	10	4.5	1.3	1.3	.6	.6	.0	8.4	2.9	SSW
SW	11	2.6	.6	2.6	2.6	1.9	.0	10.3	4.8	SW
WSW	12	3.2	1.3	.0	.0	.0	.0	4.5	1.2	WSW
W	13	2.6	.0	.0	.0	.0	.0	2.6	.9	W
WNW	14	1.9	.6	.0	.0	.0	.0	2.6	1.3	WNW
NW	15	1.3	.0	.6	.0	.0	.0	1.9	1.7	NW
NNW	16	3.2	.0	.0	.0	.0	.0	3.2	.8	NNW
CALM		12.3							12.3	
TOTAL		74.2	8.4	8.4	6.5	2.6	.0	100.0	1.8	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition 9/ 1/1994 - 9/30/1994
600 - 1000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.4	.0	.0	.0	.0	.0	3.4	.9	N
NNE	2	2.7	.0	.7	.0	.0	.0	3.4	1.4	NNE
NE	3	7.4	.0	.0	.0	.0	.0	7.4	1.1	NE
ENE	4	6.8	.7	.0	.0	.0	.0	7.4	.9	ENE
E	5	4.1	1.4	.0	.0	.0	.0	5.4	1.2	E
ESE	6	3.4	.7	.7	.0	.0	.0	4.7	1.5	ESE
SE	7	2.7	.0	.0	.0	.0	.0	2.7	.7	SE
SSE	8	4.1	.0	.0	.0	.0	.0	4.1	.8	SSE
S	9	3.4	.0	.0	.0	.0	.0	3.4	1.0	S
SSW	10	5.4	1.4	2.7	4.1	2.7	1.4	17.6	5.3	SSW
SW	11	6.1	.0	.0	.7	.7	.7	8.1	3.0	SW
WSW	12	2.7	.7	.0	.0	.0	.0	3.4	1.3	WSW
W	13	1.4	.0	.0	.0	.0	.0	1.4	.8	W
WNW	14	2.0	.7	.0	.0	.0	.0	2.7	1.1	WNW
NW	15	3.4	.0	.7	.0	.0	.0	4.1	1.5	NW
NNW	16	1.4	.0	.7	.0	.0	.0	2.0	1.8	NNW
CALM		18.9							18.9	
TOTAL		79.1	5.4	5.4	4.7	3.4	2.0	100.0	1.8	

99.7% DATA RECOVERED
20.6% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition 10/ 1/1994 - 10/31/1994
600 - 1000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.2	.0	1.3	.0	.0	.0	6.5	1.6	N
NNE	2	1.9	2.6	1.3	1.9	.0	.0	7.7	3.5	NNE
NE	3	5.2	.6	1.9	.0	.0	.0	7.7	1.6	NE
ENE	4	5.2	1.3	.0	.0	.0	.0	6.5	1.0	ENE
E	5	5.2	.0	.0	.0	.0	.0	5.2	.9	E
ESE	6	4.5	.0	.0	.0	.0	.0	4.5	.8	ESE
SE	7	3.2	1.3	.0	.0	.0	.0	4.5	1.2	SE
SSE	8	9.7	.0	.0	.0	.0	.0	9.7	1.0	SSE
S	9	4.5	.0	.0	.0	.0	.0	4.5	.9	S
SSW	10	9.0	.0	.0	.6	.6	.0	10.3	1.9	SSW
SW	11	3.2	.0	.0	3.2	.6	.0	7.1	4.9	SW
WSW	12	5.2	.0	.0	.0	.0	.0	5.2	1.1	WSW
W	13	3.2	.0	.0	.0	.0	.0	3.2	1.0	W
WNW	14	.6	.0	.0	.0	.0	.0	.6	.9	WNW
NW	15	1.9	.0	.0	.0	.0	.0	1.9	.6	NW
NNW	16	5.2	.0	.0	.0	.0	.0	5.2	.9	NNW
CALM		9.7							9.7	
TOTAL		82.6	5.8	4.5	5.8	1.3	.0	100.0	1.5	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition 11/ 1/1994 - 11/30/1994
600 - 1000 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.7	.7	.0	.7	.0	.0	6.0	1.7	N
NNE	2	2.7	1.3	1.3	2.0	.0	.0	7.3	3.1	NNE
NE	3	6.0	2.7	.7	.7	.0	.0	10.0	1.8	NE
ENE	4	4.0	.0	.0	.0	.0	.0	4.0	.8	ENE
E	5	8.7	2.0	.0	.0	.0	.0	10.7	1.4	E
ESE	6	3.3	.0	.0	.0	.0	.0	3.3	.8	ESE
SE	7	4.7	.0	.0	.0	.0	.0	4.7	.9	SE
SSE	8	4.7	.0	.0	.0	.0	.0	4.7	.9	SSE
S	9	4.7	1.3	.7	.0	.0	.0	6.7	1.6	S
SSW	10	6.7	.0	2.0	.0	.0	.0	8.7	2.0	SSW
SW	11	10.7	1.3	.7	.7	.0	.0	13.3	1.7	SW
WSW	12	2.7	.0	3.3	.0	.7	.0	6.7	3.4	WSW
W	13	3.3	.0	.0	.0	.0	.0	3.3	.9	W
WNW	14	2.0	.0	.0	.7	.0	.0	2.7	2.0	WNW
NW	15	3.3	.0	.0	.0	.0	.0	3.3	1.1	NW
NNW	16	2.7	.0	.0	.0	.0	.0	2.7	1.0	NNW
CALM		2.0							2.0	
TOTAL		76.7	9.3	8.7	4.7	.7	.0	100.0	1.7	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition 12/ 1/1994 - 12/31/1994
600 - 1000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.0	2.0	1.0	1.0	.0	.0	9.0	2.2	N
NNE	2	5.0	2.0	3.0	4.0	.0	.0	14.0	3.4	NNE
NE	3	2.0	1.0	2.0	.0	.0	.0	5.0	2.8	NE
ENE	4	6.0	.0	.0	.0	.0	.0	6.0	1.0	ENE
E	5	6.0	.0	.0	.0	.0	.0	6.0	.9	E
ESE	6	3.0	.0	.0	.0	.0	.0	3.0	.9	ESE
SE	7	4.0	1.0	.0	.0	.0	.0	5.0	1.2	SE
SSE	8	3.0	.0	.0	.0	.0	.0	3.0	.8	SSE
S	9	7.0	.0	.0	.0	.0	.0	7.0	.8	S
SSW	10	4.0	1.0	.0	.0	.0	.0	5.0	1.3	SSW
SW	11	13.0	.0	.0	.0	.0	.0	13.0	1.1	SW
WSW	12	4.0	.0	.0	.0	.0	.0	4.0	1.0	WSW
W	13	4.0	.0	.0	.0	.0	.0	4.0	.8	W
WNW	14	2.0	.0	.0	.0	.0	.0	2.0	1.2	WNW
NW	15	4.0	.0	.0	.0	.0	.0	4.0	1.2	NW
NNW	16	2.0	1.0	.0	.0	.0	.0	3.0	1.3	NNW
CALM		7.0							7.0	
TOTAL		81.0	8.0	6.0	5.0	.0	.0	100.0	1.5	

65.1% DATA RECOVERED
20.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day

1/ 1/1994 - 1/31/1994
1000 - 1600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	1.2	.6	.0	.0	1.8	5.0	N
NNE	2	.6	1.8	3.6	3.6	.0	.0	9.5	4.7	NNE
NE	3	3.0	3.0	.0	.6	.0	.0	6.5	2.1	NE
ENE	4	10.7	1.8	.0	.0	.0	.0	12.5	1.2	ENE
E	5	7.1	.6	.0	.0	.0	.0	7.7	1.2	E
ESE	6	7.1	.6	.0	.6	.0	.0	8.3	1.4	ESE
SE	7	5.4	.6	.0	.0	.0	.0	6.0	1.2	SE
SSE	8	7.1	.0	.0	.0	.0	.0	7.1	.9	SSE
S	9	7.1	.6	2.4	.0	.0	.0	10.1	1.7	S
SSW	10	5.4	1.2	.6	.0	.0	.0	7.1	1.5	SSW
SW	11	3.6	.0	.6	.0	.0	.0	4.2	1.4	SW
WSW	12	1.8	.6	.0	.0	.0	.0	2.4	1.2	WSW
W	13	2.4	.6	.0	.0	.0	.0	3.0	1.6	W
WNW	14	.6	.0	.0	.0	.0	.0	.6	.6	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.6	.0	.0	.0	.6	.0	1.2	4.7	NNW
CALM		11.9							11.9	
TOTAL		74.4	11.3	8.3	5.4	.6	.0	100.0	1.6	

78.0% DATA RECOVERED
29.0% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day 2/ 1/1994 - 2/28/1994
1000 - 1600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.6	.0	3.6	1.2	.0	.0	5.4	4.5	N
NNE	2	4.2	.0	7.8	.6	.0	.0	12.6	3.4	NNE
NE	3	4.8	1.2	.6	.0	.0	.0	6.6	1.6	NE
ENE	4	7.8	1.2	.0	.0	.0	.0	9.0	1.1	ENE
E	5	4.8	.6	1.2	.0	.0	.0	6.6	1.8	E
ESE	6	4.2	1.8	.0	.0	.0	.0	6.0	1.3	ESE
SE	7	2.4	1.8	.6	.0	.0	.0	4.8	1.9	SE
SSE	8	2.4	.6	.0	.0	.0	.0	3.0	1.0	SSE
S	9	6.0	.0	1.8	.6	.0	.0	8.4	1.9	S
SSW	10	7.8	1.8	3.6	2.4	.0	.0	15.6	2.7	SSW
SW	11	1.2	1.8	3.0	.0	.0	.0	6.0	3.0	SW
WSW	12	2.4	.6	1.2	.6	.0	.0	4.8	2.6	WSW
W	13	2.4	.0	.0	.0	.0	.0	2.4	.8	W
WNW	14	1.2	.0	.6	1.2	.0	.0	3.0	4.2	WNW
NW	15	.0	.0	.0	1.2	.0	.0	1.2	7.8	NW
NNW	16	1.2	.0	.0	1.2	.0	.0	2.4	4.2	NNW
CALM		2.4							2.4	
TOTAL		55.7	11.4	24.0	9.0	.0	.0	100.0	2.4	

85.4% DATA RECOVERED
29.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day

3/ 1/1994 - 3/31/1994
1000 - 1600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.8	.5	.5	.9	.9	.5	5.1	5.4	N
NNE	2	1.4	.9	1.8	5.5	.0	.5	10.1	5.5	NNE
NE	3	1.8	2.3	1.8	1.4	.0	.0	7.4	3.3	NE
ENE	4	1.4	1.4	1.4	.0	.0	.0	4.1	2.7	ENE
E	5	3.7	3.7	.9	.0	.0	.0	8.3	2.0	E
ESE	6	1.8	1.4	.0	.0	.0	.0	3.2	1.5	ESE
SE	7	3.2	1.8	.0	.0	.0	.0	5.1	1.6	SE
SSE	8	3.2	.5	.0	.0	.0	.0	3.7	1.5	SSE
S	9	2.3	2.3	.5	.5	.0	.0	5.5	2.4	S
SSW	10	3.2	2.3	.5	6.5	2.3	2.3	17.1	6.7	SSW
SW	11	.9	1.8	5.5	8.8	2.3	.0	19.4	5.9	SW
WSW	12	3.7	.5	.0	.0	.0	.0	4.1	1.2	WSW
W	13	.9	.5	.0	.0	.0	.0	1.4	1.2	W
WNW	14	1.4	.0	.0	.0	.0	.0	1.4	1.2	WNW
NW	15	.5	.0	.0	.0	.0	.0	.5	1.2	NW
NNW	16	.0	.5	.0	.0	.0	.0	.5	2.0	NNW
CALM		3.2							3.2	
TOTAL		34.6	20.3	12.9	23.5	5.5	3.2	100.0	4.0	

100.0% DATA RECOVERED
29.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day

4/ 1/1994 - 4/30/1994
1000 - 1600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.5	.0	.5	.5	.5	.0	1.9	4.8	N
NNE	2	.0	.5	.5	.5	1.5	.0	2.9	6.9	NNE
NE	3	.5	.0	1.0	.0	.0	.0	1.5	3.0	NE
ENE	4	.5	.0	.0	.0	.0	.0	.5	1.3	ENE
E	5	1.0	2.4	.5	1.0	.0	.0	4.9	3.3	E
ESE	6	2.9	3.4	.5	.0	.0	.0	6.8	2.0	ESE
SE	7	1.0	2.9	.5	.5	.0	.0	4.9	2.6	SE
SSE	8	3.9	3.4	1.0	.0	.0	.0	8.3	2.2	SSE
S	9	.5	1.9	1.9	.5	.5	.0	5.3	3.8	S
SSW	10	2.9	4.4	2.4	5.8	3.9	3.9	23.3	6.5	SSW
SW	11	1.0	3.4	10.2	8.3	1.9	.0	24.8	5.0	SW
WSW	12	1.5	1.0	3.4	1.0	.0	.0	6.8	3.6	WSW
W	13	1.0	1.0	1.0	1.0	.0	.0	3.9	3.7	W
WNW	14	.5	.5	.0	.5	.0	.0	1.5	3.6	WNW
NW	15	.5	.0	.0	.0	1.5	.0	1.9	7.2	NW
NNW	16	.0	.0	.0	.5	.0	.5	1.0	9.5	NNW
CALM		.0							.0	
TOTAL		18.0	24.8	23.3	19.9	9.7	4.4	100.0	4.6	

99.4% DATA RECOVERED
28.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day

5/ 1/1994 - 5/31/1994
1000 - 1600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.0	.5	1.0	.0	.0	.0	2.4	2.8	N
NNE	2	.5	.5	.0	.0	.0	.0	1.0	1.7	NNE
NE	3	1.0	1.4	.0	.0	.0	.0	2.4	1.8	NE
ENE	4	1.0	1.0	.0	.0	.0	.0	1.9	1.7	ENE
E	5	1.4	1.9	1.0	.0	.0	.0	4.3	2.5	E
ESE	6	1.4	1.9	.0	.0	.0	.0	3.3	1.8	ESE
SE	7	.5	.5	1.9	.5	.0	.0	3.3	4.4	SE
SSE	8	.5	1.9	3.3	.5	.0	.0	6.2	3.7	SSE
S	9	.5	2.4	1.0	.0	1.0	.0	4.8	4.0	S
SSW	10	.5	2.4	3.8	3.8	3.8	4.3	18.6	7.4	SSW
SW	11	1.0	3.3	12.4	12.4	9.0	1.0	39.0	6.2	SW
WSW	12	1.0	1.4	2.9	.5	.0	.0	5.7	3.6	WSW
W	13	.0	1.0	.5	1.0	.0	.0	2.4	4.1	W
WNW	14	.5	.0	.0	.0	.0	.0	.5	1.5	WNW
NW	15	1.0	1.0	.5	.0	.0	.0	2.4	2.6	NW
NNW	16	.5	1.0	.0	.5	.0	.0	1.9	3.0	NNW
CALM		.0							.0	
TOTAL		11.9	21.9	28.1	19.0	13.8	5.2	100.0	5.1	

96.9% DATA RECOVERED
29.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day

6/ 1/1994 - 6/30/1994
1000 - 1600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.0	.5	.0	.0	.0	.0	1.4	1.6	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	1.0	.0	.0	.0	.0	.0	1.0	.9	NE
ENE	4	.0	1.4	.0	.0	.0	.0	1.4	2.1	ENE
E	5	.5	1.0	.0	.0	.0	.0	1.4	1.8	E
ESE	6	1.0	1.4	.0	.0	.0	.0	2.4	1.9	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	1.0	.5	.5	.0	.0	.0	1.9	2.3	SSE
S	9	1.4	1.4	.5	.0	.0	.0	3.3	2.3	S
SSW	10	.5	1.4	3.3	4.3	6.2	.5	16.2	7.0	SSW
SW	11	.5	3.3	6.7	39.0	10.5	1.9	61.9	7.1	SW
WSW	12	.0	.5	1.9	1.4	1.9	.5	6.2	6.4	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.5	.0	.0	.0	.0	.0	.5	1.4	WNW
NW	15	.5	.5	.0	.0	.0	.0	1.0	2.1	NW
NNW	16	1.0	.5	.0	.0	.0	.0	1.4	1.5	NNW
CALM		.0							.0	
TOTAL		8.6	12.4	12.9	44.8	18.6	2.9	100.0	6.2	

100.0% DATA RECOVERED
29.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day 7/ 1/1994 - 7/31/1994
1000 - 1600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.5	.5	.0	.0	.0	.9	3.3	N
NNE	2	.5	.5	.0	.0	.0	.0	.9	1.6	NNE
NE	3	.0	1.4	.0	.0	.0	.0	1.4	2.6	NE
ENE	4	.0	.9	.0	.0	.0	.0	.9	2.4	ENE
E	5	1.4	.9	.0	.0	.0	.0	2.3	1.9	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	1.4	2.3	1.4	.0	.0	.0	5.1	2.5	SE
SSE	8	1.4	2.3	.5	.0	.0	.0	4.1	2.2	SSE
S	9	.9	1.8	.5	.0	.5	.0	3.7	3.3	S
SSW	10	1.4	3.2	8.3	7.4	1.8	.0	22.1	5.1	SSW
SW	11	.5	3.2	12.4	34.6	4.1	.0	54.8	6.2	SW
WSW	12	.0	.9	.9	.0	.0	.0	1.8	3.3	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.5	.0	.0	.0	.0	.0	.5	1.5	WNW
NW	15	.0	.5	.0	.0	.0	.0	.5	2.1	NW
NNW	16	.9	.0	.0	.0	.0	.0	.9	1.8	NNW
CALM		.0							.0	
TOTAL		8.8	18.4	24.4	41.9	6.5	.0	100.0	5.1	

100.0% DATA RECOVERED
29.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day

8/ 1/1994 - 8/31/1994
1000 - 1600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.9	.5	.0	.0	.0	.0	1.4	1.9	N
NNE	2	.5	.0	.0	.0	.0	.0	.5	1.0	NNE
NE	3	.9	.0	.0	.0	.0	.0	.9	1.4	NE
ENE	4	.9	1.8	.0	.0	.0	.0	2.8	1.9	ENE
E	5	.9	.0	.5	.0	.0	.0	1.4	2.0	E
ESE	6	.9	.0	.9	.0	.0	.0	1.8	2.8	ESE
SE	7	.5	.9	4.1	.5	.0	.0	6.0	3.7	SE
SSE	8	.9	.5	.5	.0	.0	.0	1.8	2.9	SSE
S	9	.9	1.8	.9	2.8	.0	.0	6.5	4.2	S
SSW	10	.0	1.8	3.7	12.0	1.8	.0	19.4	6.5	SSW
SW	11	.0	1.8	9.2	30.9	5.5	.0	47.5	6.7	SW
WSW	12	1.4	.0	4.6	.9	.0	.0	6.9	4.2	WSW
W	13	.9	.0	.0	.0	.0	.0	.9	1.1	W
WNW	14	.5	.0	.0	.0	.0	.0	.5	1.1	WNW
NW	15	.0	.0	.0	.5	.0	.0	.5	6.6	NW
NNW	16	.9	.0	.5	.0	.0	.0	1.4	2.2	NNW
CALM		.0							.0	
TOTAL		11.1	9.2	24.9	47.5	7.4	.0	100.0	5.5	

100.0% DATA RECOVERED
29.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day

9/ 1/1994 - 9/30/1994
1000 - 1600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.9	.5	.5	1.0	.0	.0	3.8	3.4	N
NNE	2	1.4	1.0	.0	1.0	.0	.0	3.3	3.3	NNE
NE	3	2.9	1.4	.0	.0	.0	.0	4.3	1.5	NE
ENE	4	3.8	.0	.0	.0	.0	.0	3.8	1.1	ENE
E	5	2.4	2.4	.0	.0	.0	.0	4.8	1.7	E
ESE	6	2.9	1.0	.5	.0	.0	.0	4.3	1.9	ESE
SE	7	2.9	1.4	.0	.0	.0	.0	4.3	1.5	SE
SSE	8	1.9	1.0	.0	.0	.0	.0	2.9	1.6	SSE
S	9	.0	.5	.0	.0	.0	.0	.5	2.7	S
SSW	10	3.8	1.9	3.3	7.6	11.0	2.9	30.5	7.1	SSW
SW	11	1.9	2.4	10.5	11.9	1.0	1.4	29.0	5.5	SW
WSW	12	.0	.5	1.9	.5	.0	.0	2.9	4.4	WSW
W	13	.5	.0	.0	.0	.0	.0	.5	1.6	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	1.0	.5	.5	.0	.0	.0	1.9	2.3	NW
NNW	16	1.0	1.0	.0	1.0	.0	.0	2.9	3.7	NNW
CALM		.5							.5	
TOTAL		28.6	15.2	17.1	22.9	11.9	4.3	100.0	4.7	

99.7% DATA RECOVERED
29.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day 10/ 1/1994 - 10/31/1994
1000 - 1600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.4	.0	1.4	.9	.0	.0	3.7	3.8	N
NNE	2	2.8	2.3	4.6	2.3	.0	.0	12.0	3.8	NNE
NE	3	1.4	1.4	.5	.0	.0	.0	3.2	2.0	NE
ENE	4	3.2	1.4	.0	.0	.0	.0	4.6	1.4	ENE
E	5	4.1	.5	.0	.0	.0	.0	4.6	1.2	E
ESE	6	3.2	.0	.0	.0	.0	.0	3.2	1.0	ESE
SE	7	3.2	.9	.0	.0	.0	.0	4.1	1.5	SE
SSE	8	8.3	.5	.0	.0	.0	.0	8.8	1.2	SSE
S	9	5.1	.5	.0	.0	.0	.0	5.5	1.4	S
SSW	10	3.2	.9	1.4	1.4	.9	.5	8.3	4.2	SSW
SW	11	2.3	6.0	8.3	6.0	1.4	.5	24.4	4.8	SW
WSW	12	2.3	1.4	1.8	.9	.0	.0	6.5	2.9	WSW
W	13	2.8	.0	.5	.0	.0	.0	3.2	1.6	W
WNW	14	.0	.0	.5	.0	.0	.0	.5	4.2	WNW
NW	15	1.8	.5	.0	.0	.0	.0	2.3	1.2	NW
NNW	16	.9	.0	.0	.9	.0	.0	1.8	3.6	NNW
CALM		3.2							3.2	
TOTAL		49.3	16.1	18.9	12.4	2.3	.9	100.0	2.9	

100.0% DATA RECOVERED
29.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day

11/ 1/1994 - 11/30/1994
1000 - 1600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.4	.5	.5	1.4	.0	.0	3.8	3.7	N
NNE	2	5.2	.0	2.9	3.3	.0	.0	11.4	3.5	NNE
NE	3	4.8	2.9	.5	.5	.0	.0	8.6	2.0	NE
ENE	4	2.9	2.4	1.0	.0	.0	.0	6.2	2.0	ENE
E	5	8.6	1.4	.0	.0	.0	.0	10.0	1.4	E
ESE	6	4.3	1.0	.0	.0	.0	.0	5.2	1.4	ESE
SE	7	2.9	3.3	1.0	.0	.0	.0	7.1	2.1	SE
SSE	8	1.0	.0	.0	.0	.0	.0	1.0	1.2	SSE
S	9	1.9	1.0	.5	.0	.0	.0	3.3	1.8	S
SSW	10	2.4	1.9	2.4	1.4	.5	2.4	11.0	5.4	SSW
SW	11	2.4	2.4	1.9	5.7	1.9	.0	14.3	5.3	SW
WSW	12	1.4	.0	.5	.0	.0	.0	1.9	1.6	WSW
W	13	.0	.0	.5	.0	.0	.0	.5	5.3	W
WNW	14	1.0	.0	.5	1.4	.0	.0	2.9	4.1	WNW
NW	15	1.4	.0	.0	1.0	.0	.0	2.4	3.5	NW
NNW	16	2.9	.0	.5	1.4	.0	.0	4.8	3.1	NNW
CALM		5.7							5.7	
TOTAL		50.0	16.7	12.4	16.2	2.4	2.4	100.0	3.0	

100.0% DATA RECOVERED
29.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day

12/ 1/1994 - 12/31/1994
1000 - 1600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.1	2.1	.7	.0	.0	.0	4.9	2.2	N
NNE	2	5.6	2.8	3.5	3.5	.0	.0	15.4	3.1	NNE
NE	3	2.8	2.1	3.5	.7	.0	.0	9.1	2.8	NE
ENE	4	11.2	.7	.0	.0	.0	.0	11.9	1.1	ENE
E	5	7.7	.0	.0	.0	.0	.0	7.7	.9	E
ESE	6	2.8	2.1	.0	.0	.0	.0	4.9	1.6	ESE
SE	7	6.3	1.4	2.8	.0	.0	.0	10.5	2.1	SE
SSE	8	2.8	.0	.0	.0	.0	.0	2.8	.9	SSE
S	9	2.1	.0	.0	.0	.0	.0	2.1	.7	S
SSW	10	2.8	.7	.0	.0	.0	.0	3.5	1.2	SSW
SW	11	2.1	1.4	1.4	.0	.0	.0	4.9	2.5	SW
WSW	12	2.8	.0	.0	.0	.0	.0	2.8	.9	WSW
W	13	2.1	.0	.0	.0	.0	.0	2.1	1.1	W
WNW	14	2.1	.7	.0	.0	.0	.0	2.8	1.7	WNW
NW	15	2.1	.7	.7	.0	.0	.0	3.5	1.7	NW
NNW	16	2.1	1.4	.0	.0	.0	.0	3.5	1.8	NNW
CALM		7.7							7.7	
TOTAL		67.1	16.1	12.6	4.2	.0	.0	100.0	1.8	

65.1% DATA RECOVERED
29.5% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition 1/ 1/1994 - 1/31/1994
1600 - 2000 (HST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	1.7	.0	.0	.0	1.7	3.9	N
NNE	2	.0	1.7	3.3	.0	.0	.0	5.0	3.4	NNE
NE	3	.0	3.3	.8	.0	.0	.0	4.2	3.1	NE
ENE	4	1.7	.0	.0	.0	.0	.0	1.7	1.4	ENE
E	5	3.3	.0	.8	.0	.0	.0	4.2	1.8	E
ESE	6	1.7	3.3	2.5	.0	.0	.0	7.5	2.7	ESE
SE	7	4.2	1.7	.0	.0	.0	.0	5.8	1.5	SE
SSE	8	4.2	.8	.0	.0	.0	.0	5.0	1.2	SSE
S	9	9.2	1.7	.8	.0	.0	.0	11.7	1.5	S
SSW	10	9.2	2.5	.8	.0	.0	.0	12.5	1.5	SSW
SW	11	10.8	1.7	.0	.0	.0	.0	12.5	1.4	SW
WSW	12	11.7	1.7	.0	.0	.0	.0	13.3	1.2	WSW
W	13	4.2	.0	.0	.0	.0	.0	4.2	1.1	W
WNW	14	3.3	.0	.0	.0	.0	.0	3.3	1.4	WNW
NW	15	1.7	1.7	.0	.0	.0	.0	3.3	1.8	NW
NNW	16	.0	.0	.0	.0	2.5	.0	2.5	9.8	NNW
CALM		1.7							1.7	
TOTAL		66.7	20.0	10.8	.0	2.5	.0	100.0	1.9	

78.0% DATA RECOVERED
20.7% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition 2/ 1/1994 - 2/28/1994
1600 - 2000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.1	2.3	3.1	.0	.0	.0	8.6	2.6	N
NNE	2	6.3	2.3	6.3	3.1	.0	.0	18.0	3.3	NNE
NE	3	2.3	1.6	1.6	.0	.0	.0	5.5	2.3	NE
ENE	4	2.3	.8	.0	.0	.0	.0	3.1	1.5	ENE
E	5	1.6	.0	1.6	.0	.0	.0	3.1	3.4	E
ESE	6	.8	.8	.0	.0	.0	.0	1.6	1.8	ESE
SE	7	2.3	.8	.0	.0	.0	.0	3.1	1.3	SE
SSE	8	2.3	1.6	.0	.0	.0	.0	3.9	1.4	SSE
S	9	2.3	2.3	.8	.8	.0	.0	6.3	2.6	S
SSW	10	3.1	.0	.8	.8	.0	.0	4.7	2.8	SSW
SW	11	7.0	3.9	2.3	.0	.0	.0	13.3	1.9	SW
WSW	12	3.1	1.6	.8	.0	.0	.0	5.5	2.0	WSW
W	13	2.3	.8	.0	.0	.0	.0	3.1	1.6	W
WNW	14	5.5	.8	1.6	.8	.0	.0	8.6	2.6	WNW
NW	15	3.1	.8	.0	.0	.0	.0	3.9	1.3	NW
NNW	16	3.1	.0	.0	.8	.0	.0	3.9	1.9	NNW
CALM		3.9							3.9	
TOTAL		54.7	20.3	18.8	6.3	.0	.0	100.0	2.3	

85.4% DATA RECOVERED
22.3% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition 3/ 1/1994 - 3/31/1994
1600 - 2000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.3	.6	.6	.6	1.9	.0	5.2	5.7	N
NNE	2	2.6	.6	1.9	.6	.0	.0	5.8	2.9	NNE
NE	3	2.6	.6	1.3	1.9	.0	.0	6.5	3.4	NE
ENE	4	1.9	1.3	.0	.0	.0	.0	3.2	2.0	ENE
E	5	1.9	.6	.0	.0	.0	.0	2.6	1.4	E
ESE	6	1.9	2.6	.0	.0	.0	.0	4.5	1.6	ESE
SE	7	1.9	.6	.0	.0	.0	.0	2.6	1.4	SE
SSE	8	.6	.0	.0	.0	.0	.0	.6	1.1	SSE
S	9	1.3	.0	1.3	1.3	.0	.0	3.9	3.8	S
SSW	10	3.2	7.1	2.6	5.2	.0	.0	18.1	3.8	SSW
SW	11	5.8	6.5	4.5	3.2	.0	.0	20.0	3.4	SW
WSW	12	5.2	1.3	.0	.0	.0	.0	6.5	1.6	WSW
W	13	3.2	1.9	.0	.0	.0	.0	5.2	1.7	W
WNW	14	3.2	.6	.6	.0	.0	.0	4.5	1.9	WNW
NW	15	2.6	.6	.6	.0	.0	.0	3.9	2.2	NW
NNW	16	2.6	1.9	1.9	.0	.0	.0	6.5	2.4	NNW
CALM		.6							.6	
TOTAL		42.6	27.1	15.5	12.9	1.9	.0	100.0	2.9	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition 4/ 1/1994 - 4/30/1994
1600 - 2000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	1.3	.0	.0	1.3	6.1	N
NNE	2	.0	.0	1.3	1.3	1.3	.0	4.0	6.7	NNE
NE	3	3.3	.0	.0	.0	.0	.0	3.3	1.7	NE
ENE	4	.7	1.3	.0	.0	.0	.0	2.0	2.3	ENE
E	5	3.3	1.3	.7	.7	.0	.0	6.0	2.5	E
ESE	6	3.3	1.3	.7	.0	.0	.0	5.3	1.8	ESE
SE	7	1.3	2.7	.7	.0	.0	.0	4.7	2.2	SE
SSE	8	5.3	.0	.0	.0	.0	.0	5.3	1.3	SSE
S	9	5.3	1.3	.7	.0	.0	.0	7.3	1.6	S
SSW	10	4.7	1.3	4.7	4.0	1.3	1.3	17.3	5.0	SSW
SW	11	2.0	5.3	10.7	4.7	.0	.7	23.3	4.2	SW
WSW	12	2.7	2.7	.7	.7	.0	.0	6.7	2.6	WSW
W	13	1.3	2.0	.0	.7	.0	.0	4.0	2.6	W
WNW	14	1.3	.7	.0	.7	.0	.0	2.7	3.0	WNW
NW	15	.7	2.0	.0	.0	.7	.0	3.3	3.4	NW
NNW	16	.7	.0	.7	2.0	.0	.0	3.3	5.5	NNW
CALM		.0							.0	
TOTAL		36.0	22.0	20.7	16.0	3.3	2.0	100.0	3.5	

99.4% DATA RECOVERED
20.9% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition 5/ 1/1994 - 5/31/1994
1600 - 2000 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.3	.0	.7	.0	.0	.0	2.0	2.1	N
NNE	2	2.7	.7	.7	.7	.0	.0	4.7	2.6	NNE
NE	3	1.3	2.0	.7	.0	.0	.0	4.0	2.4	NE
ENE	4	.0	.7	.7	.0	.0	.0	1.3	2.9	ENE
E	5	.7	.7	.7	.0	.0	.0	2.0	2.7	E
ESE	6	1.3	2.7	1.3	.0	.0	.0	5.3	2.3	ESE
SE	7	2.7	1.3	2.7	2.0	.0	.0	8.7	3.6	SE
SSE	8	.7	.0	3.3	.0	.0	.0	4.0	3.5	SSE
S	9	.7	2.0	2.0	.7	.0	.0	5.3	3.3	S
SSW	10	.7	1.3	2.7	6.0	2.0	2.7	15.3	7.0	SSW
SW	11	4.0	4.7	7.3	12.0	3.3	.0	31.3	5.0	SW
WSW	12	.0	1.3	6.0	2.0	.0	.0	9.3	4.1	WSW
W	13	.7	.7	.0	.0	.0	.0	1.3	1.9	W
WNW	14	.7	.7	.0	.0	.0	.0	1.3	2.0	WNW
NW	15	2.7	.0	.0	.0	.0	.0	2.7	1.5	NW
NNW	16	.7	.0	.7	.0	.0	.0	1.3	3.4	NNW
CALM		.0							.0	
TOTAL		20.7	18.7	29.3	23.3	5.3	2.7	100.0	4.3	

96.9% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition 6/ 1/1994 - 6/30/1994
1600 - 2000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.7	.0	.0	.0	.0	.0	.7	1.2	N
NNE	2	.7	.0	.0	.0	.0	.0	.7	1.2	NNE
NE	3	.7	.0	.0	.0	.0	.0	.7	.8	NE
ENE	4	2.0	.0	.0	.0	.0	.0	2.0	1.0	ENE
E	5	1.3	.0	.0	.0	.0	.0	1.3	1.0	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.7	.0	.0	.0	.0	.0	.7	.9	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	1.3	.0	.7	.0	.0	.0	2.0	2.3	S
SSW	10	1.3	.7	3.3	14.0	5.3	.0	24.7	6.7	SSW
SW	11	4.7	8.0	10.0	24.0	2.0	.7	49.3	5.3	SW
WSW	12	3.3	4.7	5.3	.7	.0	.0	14.0	3.2	WSW
W	13	.7	.7	.0	.0	.0	.0	1.3	2.5	W
WNW	14	.0	.0	.7	.0	.0	.0	.7	4.0	WNW
NW	15	1.3	.0	.0	.0	.0	.0	1.3	1.3	NW
NNW	16	.7	.0	.0	.0	.0	.0	.7	1.8	NNW
CALM		.0							.0	
TOTAL		19.3	14.0	20.0	38.7	7.3	.7	100.0	4.9	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition 7/ 1/1994 - 7/31/1994
1600 - 2000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.3	.6	.6	.0	.0	.0	2.6	2.1	N
NNE	2	.0	.6	.0	.0	.0	.0	.6	2.1	NNE
NE	3	.6	1.3	.0	.0	.0	.0	1.9	2.4	NE
ENE	4	2.6	.0	.0	.0	.0	.0	2.6	1.5	ENE
E	5	1.9	.0	.0	.6	.0	.0	2.6	2.4	E
ESE	6	.0	.0	.0	.6	.0	.0	.6	7.1	ESE
SE	7	2.6	.0	.0	.6	.0	.0	3.2	2.2	SE
SSE	8	.6	.0	.0	.0	.0	.0	.6	1.6	SSE
S	9	1.3	.6	.0	.0	.0	.0	1.9	1.6	S
SSW	10	4.5	3.2	5.2	8.4	.0	.0	21.3	4.5	SSW
SW	11	3.2	4.5	17.4	23.9	.0	.0	49.0	5.2	SW
WSW	12	1.9	3.2	1.9	.0	.0	.0	7.1	2.6	WSW
W	13	1.9	.6	.0	.0	.0	.0	2.6	1.6	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	2.6	.0	.0	.0	.0	.0	2.6	.9	NW
NNW	16	.6	.0	.0	.0	.0	.0	.6	1.2	NNW
CALM		.0							.0	
TOTAL		25.8	14.8	25.2	34.2	.0	.0	100.0	4.1	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition 8/ 1/1994 - 8/31/1994
1600 - 2000 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.3	.0	.0	.0	.0	.0	1.3	1.2	N
NNE	2	1.3	.6	.6	.0	.0	.0	2.6	2.3	NNE
NE	3	3.9	.0	.0	.0	.0	.0	3.9	1.4	NE
ENE	4	1.3	.6	.0	.0	.0	.0	1.9	1.3	ENE
E	5	1.3	.6	.6	.0	.0	.0	2.6	2.3	E
ESE	6	.6	.6	.0	.0	.0	.0	1.3	2.0	ESE
SE	7	.6	.6	2.6	.0	.0	.0	3.9	3.7	SE
SSE	8	.6	.6	.6	.0	.0	.0	1.9	3.1	SSE
S	9	.6	2.6	.6	.6	.6	.0	5.2	3.8	S
SSW	10	1.9	3.9	7.1	7.7	.0	.0	20.6	4.8	SSW
SW	11	3.2	3.2	12.9	16.1	1.3	.0	36.8	5.2	SW
WSW	12	1.3	1.9	2.6	.0	.0	.0	5.8	3.2	WSW
W	13	2.6	1.3	.0	.0	.0	.0	3.9	1.5	W
WNW	14	1.9	.0	.0	.0	.0	.0	1.9	1.2	WNW
NW	15	1.9	1.3	.0	.0	.0	.0	3.2	1.5	NW
NNW	16	1.3	.6	.6	.0	.0	.0	2.6	2.2	NNW
CALM		.6							.6	
TOTAL		26.5	18.7	28.4	24.5	1.9	.0	100.0	3.9	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition 9/ 1/1994 - 9/30/1994
1600 - 2000 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.3	1.3	.0	.7	.0	.0	3.3	2.8	N
NNE	2	4.0	1.3	2.0	3.3	.0	.0	10.7	3.5	NNE
NE	3	3.3	.7	.0	.0	.0	.0	4.0	1.6	NE
ENE	4	6.0	.0	.0	.0	.0	.0	6.0	1.1	ENE
E	5	.0	.7	.0	.0	.0	.0	.7	2.4	E
ESE	6	1.3	.0	.0	.0	.0	.0	1.3	1.0	ESE
SE	7	2.7	.0	.0	.0	.0	.0	2.7	1.3	SE
SSE	8	1.3	.0	.0	.0	.0	.0	1.3	1.2	SSE
S	9	4.0	.0	.7	.0	.0	.0	4.7	1.4	S
SSW	10	5.3	5.3	1.3	8.7	2.0	.7	23.3	4.8	SSW
SW	11	4.7	4.0	10.7	4.7	.0	.0	24.0	3.9	SW
WSW	12	.0	2.7	4.0	.0	.0	.0	6.7	3.7	WSW
W	13	2.0	.7	.0	.0	.0	.0	2.7	1.7	W
WNW	14	.7	.0	.0	.0	.0	.0	.7	.8	WNW
NW	15	1.3	.0	.0	.0	.0	.0	1.3	1.0	NW
NNW	16	4.0	1.3	.7	.7	.0	.0	6.7	2.5	NNW
CALM		.0							.0	
TOTAL		42.0	18.0	19.3	18.0	2.0	.7	100.0	3.3	

99.7% DATA RECOVERED
20.9% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition 10/ 1/1994 - 10/31/1994
1600 - 2000 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.8	1.9	.6	.0	.0	.0	8.4	1.6	N
NNE	2	1.9	4.5	1.3	.6	.0	.0	8.4	2.8	NNE
NE	3	1.9	2.6	.0	.0	.0	.0	4.5	1.9	NE
ENE	4	2.6	.6	.0	.0	.0	.0	3.2	1.2	ENE
E	5	1.3	1.3	.0	.0	.0	.0	2.6	1.6	E
ESE	6	1.9	.0	.0	.0	.0	.0	1.9	1.3	ESE
SE	7	.6	.0	.0	.0	.0	.0	.6	1.3	SE
SSE	8	1.3	.0	.0	.0	.0	.0	1.3	1.0	SSE
S	9	3.2	.0	1.9	.0	.0	.0	5.2	2.2	S
SSW	10	9.0	3.2	.0	1.3	.6	.0	14.2	2.4	SSW
SW	11	7.7	9.0	6.5	.6	.0	.0	23.9	2.6	SW
WSW	12	3.2	.6	1.9	.6	.0	.0	6.5	2.7	WSW
W	13	3.2	.0	.0	.0	.0	.0	3.2	1.1	W
WNW	14	2.6	2.6	.0	.0	.0	.0	5.2	1.6	WNW
NW	15	5.8	.6	.0	.0	.0	.0	6.5	1.1	NW
NNW	16	4.5	.0	.0	.0	.0	.0	4.5	1.1	NNW
CALM		.0							.0	
TOTAL		56.8	27.1	12.3	3.2	.6	.0	100.0	2.1	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition 11/ 1/1994 - 11/30/1994
1600 - 2000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.7	2.7	.0	.0	.0	.0	5.3	2.0	N
NNE	2	.0	2.7	3.3	.7	.0	.0	6.7	3.7	NNE
NE	3	1.3	4.0	.0	.0	.0	.0	5.3	2.1	NE
ENE	4	2.7	2.0	.0	.0	.0	.0	4.7	1.7	ENE
E	5	4.0	1.3	.0	.0	.0	.0	5.3	1.5	E
ESE	6	1.3	.0	.0	.0	.0	.0	1.3	1.1	ESE
SE	7	.7	1.3	.0	.0	.0	.0	2.0	2.1	SE
SSE	8	1.3	.0	.7	.0	.0	.0	2.0	1.8	SSE
S	9	1.3	2.0	.0	.0	.0	.0	3.3	1.7	S
SSW	10	5.3	3.3	1.3	2.0	1.3	2.0	15.3	4.5	SSW
SW	11	8.7	2.0	2.0	2.0	.0	.0	14.7	2.5	SW
WSW	12	1.3	.0	.0	1.3	.0	.0	2.7	3.3	WSW
W	13	3.3	.0	.0	.0	.0	.0	3.3	1.3	W
WNW	14	6.0	.7	.0	.7	.0	.0	7.3	1.9	WNW
NW	15	6.7	2.7	.0	2.0	.0	.0	11.3	2.5	NW
NNW	16	4.0	2.0	1.3	.7	.0	.0	8.0	2.5	NNW
CALM		1.3							1.3	
TOTAL		52.0	26.7	8.7	9.3	1.3	2.0	100.0	2.6	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition 12/ 1/1994 - 12/31/1994
1600 - 2000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.0	1.0	.0	.0	.0	.0	4.0	1.5	N
NNE	2	4.0	1.0	4.0	.0	.0	.0	8.9	2.5	NNE
NE	3	3.0	1.0	.0	1.0	.0	.0	5.0	2.1	NE
ENE	4	5.0	.0	.0	.0	.0	.0	5.0	1.0	ENE
E	5	1.0	2.0	.0	.0	.0	.0	3.0	1.8	E
ESE	6	1.0	.0	.0	.0	.0	.0	1.0	.6	ESE
SE	7	4.0	3.0	2.0	.0	.0	.0	8.9	2.1	SE
SSE	8	1.0	.0	.0	.0	.0	.0	1.0	.6	SSE
S	9	5.9	.0	.0	1.0	.0	.0	6.9	1.7	S
SSW	10	4.0	2.0	1.0	.0	.0	.0	6.9	2.1	SSW
SW	11	4.0	4.0	2.0	.0	.0	.0	9.9	2.3	SW
WSW	12	8.9	1.0	.0	.0	.0	.0	9.9	1.2	WSW
W	13	3.0	2.0	.0	.0	.0	.0	5.0	1.6	W
WNW	14	5.0	3.0	.0	.0	.0	.0	7.9	1.8	WNW
NW	15	4.0	5.0	.0	.0	.0	.0	8.9	1.9	NW
NNW	16	5.0	3.0	.0	.0	.0	.0	7.9	1.8	NNW
CALM		.0							.0	
TOTAL		61.4	27.7	8.9	2.0	.0	.0	100.0	1.8	

65.1% DATA RECOVERED
20.9% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time

1/ 1/1994 - 1/31/1994
2000 - 600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.4	.0	.0	.0	.4	4.0	N
NNE	2	.0	.7	.7	.0	.0	.0	1.5	3.4	NNE
NE	3	.4	.0	.4	.0	.0	.0	.7	2.5	NE
ENE	4	.4	2.2	.4	.0	.0	.0	3.0	2.5	ENE
E	5	2.6	.7	.0	.0	.0	.0	3.4	1.2	E
ESE	6	3.4	1.1	.4	.0	.0	.0	4.9	1.5	ESE
SE	7	5.2	.4	.0	.0	.0	.0	5.6	1.0	SE
SSE	8	9.3	.0	.0	.0	.0	.0	9.3	.8	SSE
S	9	11.6	.7	.0	.0	.0	.0	12.3	1.0	S
SSW	10	16.0	1.5	.0	.0	.0	.0	17.5	1.1	SSW
SW	11	19.0	1.1	.0	.0	.0	.0	20.1	1.1	SW
WSW	12	9.3	.4	.7	.0	.0	.0	10.4	1.2	WSW
W	13	5.6	.0	.0	.0	.0	.0	5.6	.9	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	1.5	.4	.0	.0	.0	.0	1.9	1.4	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		3.4							3.4	
TOTAL		87.7	9.3	3.0	.0	.0	.0	100.0	1.1	

78.0% DATA RECOVERED
46.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time

2/ 1/1994 - 2/28/1994
2000 - 600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.3	1.1	1.5	.0	.0	.0	8.0	2.0	N
NNE	2	3.4	.8	.4	.4	.0	.0	4.9	2.0	NNE
NE	3	2.7	1.5	.8	.0	.0	.0	4.9	1.9	NE
ENE	4	4.2	1.9	.0	.0	.0	.0	6.1	1.5	ENE
E	5	3.0	1.1	.0	.0	.0	.0	4.2	1.4	E
ESE	6	1.1	.0	.0	.0	.0	.0	1.1	.9	ESE
SE	7	3.4	.8	.0	.0	.0	.0	4.2	1.1	SE
SSE	8	1.9	.4	.0	.0	.4	.0	2.7	2.1	SSE
S	9	4.2	.0	.0	2.3	.0	.0	6.4	3.1	S
SSW	10	8.7	.0	.4	.0	.0	.0	9.1	1.1	SSW
SW	11	11.4	.8	.0	.0	.0	.0	12.1	1.0	SW
WSW	12	8.0	.8	.4	.4	.0	.0	9.5	1.5	WSW
W	13	7.2	.4	.0	.0	.0	.0	7.6	1.1	W
WNW	14	6.8	1.1	.0	.4	.4	.0	8.7	1.9	WNW
NW	15	4.9	1.1	.0	.0	.0	.0	6.1	1.3	NW
NNW	16	2.7	.0	.0	.0	.0	.0	2.7	1.1	NNW
CALM		1.9							1.9	
TOTAL		80.7	11.7	3.4	3.4	.8	.0	100.0	1.5	

85.4% DATA RECOVERED
46.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time

3/ 1/1994 - 3/31/1994
2000 - 600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.4	.6	.6	.0	.0	.0	5.6	1.4	N
NNE	2	3.2	1.5	1.8	1.8	.0	.0	8.2	3.3	NNE
NE	3	3.2	2.3	1.2	.3	.0	.0	7.0	2.4	NE
ENE	4	2.6	1.2	.0	.0	.0	.0	3.8	1.6	ENE
E	5	2.3	.0	.0	.0	.0	.0	2.3	1.1	E
ESE	6	2.1	.0	.0	.0	.0	.0	2.1	1.1	ESE
SE	7	2.3	.9	.0	.0	.0	.0	3.2	1.5	SE
SSE	8	2.6	.3	.0	.0	.0	.0	2.9	1.0	SSE
S	9	3.2	.3	.0	.3	.0	.0	3.8	1.6	S
SSW	10	9.4	.9	.9	1.8	.0	.0	12.9	2.1	SSW
SW	11	12.6	.9	.6	.0	.0	.0	14.1	1.3	SW
WSW	12	8.5	.9	.0	.0	.0	.0	9.4	1.2	WSW
W	13	5.3	1.2	.0	.0	.0	.0	6.5	1.2	W
WNW	14	4.7	.6	.3	.0	.0	.0	5.6	1.4	WNW
NW	15	4.7	1.5	.0	.3	.0	.0	6.5	1.5	NW
NNW	16	3.8	.9	.3	.0	.0	.0	5.0	1.4	NNW
CALM		1.2							1.2	
TOTAL		76.2	13.8	5.6	4.4	.0	.0	100.0	1.7	

100.0% DATA RECOVERED
45.8% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time

4/ 1/1994 - 4/30/1994
2000 - 600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.3	.3	.0	.0	.0	.6	3.6	N
NNE	2	.3	.3	.9	.3	.0	.0	1.8	3.8	NNE
NE	3	2.1	.6	1.2	.0	.0	.0	3.9	2.4	NE
ENE	4	2.4	.6	.0	.0	.0	.0	3.0	1.6	ENE
E	5	2.1	.6	.3	.0	.0	.0	3.0	1.8	E
ESE	6	2.1	.6	.0	.3	.0	.0	3.0	2.1	ESE
SE	7	4.5	.3	.0	.0	.0	.0	4.8	1.0	SE
SSE	8	7.0	.6	.0	.0	.0	.0	7.6	1.1	SSE
S	9	8.2	1.2	.3	.3	.0	.0	10.0	1.4	S
SSW	10	8.2	1.2	1.8	.9	.6	.9	13.6	3.2	SSW
SW	11	13.3	.9	2.4	.3	.0	.3	17.3	2.0	SW
WSW	12	11.2	1.2	.6	.6	.0	.0	13.6	1.6	WSW
W	13	4.5	1.5	.9	.3	.0	.0	7.3	2.0	W
WNW	14	2.1	1.2	.0	.0	.0	.0	3.3	1.5	WNW
NW	15	3.0	1.5	.0	.0	.0	.0	4.5	1.6	NW
NNW	16	.3	.3	.6	.0	.0	.0	1.2	2.9	NNW
CALM		1.2							1.2	
TOTAL		72.7	13.0	9.4	3.0	.6	1.2	100.0	1.9	

99.4% DATA RECOVERED
46.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time

5/ 1/1994 - 5/31/1994
2000 - 600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.8	.3	.6	.0	.0	.0	5.7	1.4	N
NNE	2	6.3	.3	.3	.0	.0	.0	6.9	1.3	NNE
NE	3	3.6	.6	.6	.0	.0	.0	4.8	1.8	NE
ENE	4	1.8	.9	.3	.0	.0	.0	3.0	1.7	ENE
E	5	1.5	.0	.0	.0	.0	.0	1.5	.8	E
ESE	6	2.1	1.2	.0	.0	.0	.0	3.3	1.5	ESE
SE	7	.9	.0	.0	.0	.0	.0	.9	1.1	SE
SSE	8	3.0	.9	.0	.0	.0	.0	3.9	1.2	SSE
S	9	3.9	.9	.3	.0	.0	.0	5.1	1.4	S
SSW	10	4.8	.9	.9	2.4	.0	.0	9.1	3.0	SSW
SW	11	10.6	2.4	1.2	1.8	.0	.0	16.0	2.2	SW
WSW	12	5.7	1.2	2.4	.6	.0	.0	10.0	2.4	WSW
W	13	6.3	.3	.0	.0	.0	.0	6.6	1.2	W
WNW	14	5.4	1.2	.6	.0	.0	.0	7.3	1.5	WNW
NW	15	5.1	1.2	.6	.0	.0	.0	6.9	1.6	NW
NNW	16	4.8	1.2	.3	.0	.0	.0	6.3	1.5	NNW
CALM		2.4							2.4	
TOTAL		73.4	13.6	8.2	4.8	.0	.0	100.0	1.8	

96.9% DATA RECOVERED
45.9% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time

6/ 1/1994 - 6/30/1994
2000 - 600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.6	.0	.0	.0	.0	.0	3.6	1.1	N
NNE	2	5.5	.9	.3	.3	.0	.0	7.0	1.7	NNE
NE	3	8.5	.3	.0	.0	.0	.0	8.8	1.2	NE
ENE	4	5.2	.0	.0	.0	.0	.0	5.2	1.1	ENE
E	5	2.7	.3	.0	.0	.0	.0	3.0	1.1	E
ESE	6	.6	.3	.0	.0	.0	.0	.9	1.4	ESE
SE	7	.9	1.2	.0	.0	.0	.0	2.1	2.0	SE
SSE	8	1.2	.0	.0	.0	.0	.0	1.2	1.1	SSE
S	9	3.6	.9	.0	.0	.0	.0	4.5	1.2	S
SSW	10	7.0	1.2	1.2	.3	.0	.0	9.7	1.9	SSW
SW	11	10.9	2.7	3.9	2.7	.0	.0	20.3	2.5	SW
WSW	12	6.1	1.5	1.5	1.2	.0	.0	10.3	2.3	WSW
W	13	7.0	.9	.3	.0	.0	.0	8.2	1.3	W
WNW	14	5.8	1.2	.9	.0	.0	.0	7.9	1.5	WNW
NW	15	1.8	.9	.0	.0	.0	.0	2.7	1.3	NW
NNW	16	3.6	.0	.0	.0	.0	.0	3.6	1.1	NNW
CALM		.9							.9	
TOTAL		74.8	12.4	8.2	4.5	.0	.0	100.0	1.7	

100.0% DATA RECOVERED
45.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time

7/ 1/1994 - 7/31/1994
2000 - 600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.0	.0	.0	.0	.0	.0	5.0	1.0	N
NNE	2	7.0	.3	.6	.0	.0	.0	7.9	1.4	NNE
NE	3	7.9	3.2	.0	.0	.0	.0	11.1	1.5	NE
ENE	4	6.5	.9	.0	.0	.0	.0	7.3	1.4	ENE
E	5	3.8	.0	.0	.0	.0	.0	3.8	1.1	E
ESE	6	1.2	.0	.0	.0	.0	.0	1.2	1.3	ESE
SE	7	3.5	.0	.3	.6	.0	.0	4.4	1.9	SE
SSE	8	2.9	.0	.0	.0	.0	.0	2.9	1.0	SSE
S	9	1.8	.9	.0	.0	.0	.0	2.6	1.7	S
SSW	10	6.5	.9	.3	.3	.0	.0	7.9	1.7	SSW
SW	11	10.3	1.8	1.5	.0	.0	.0	13.5	1.6	SW
WSW	12	5.3	1.2	.3	.0	.0	.0	6.7	1.4	WSW
W	13	6.7	.3	.0	.0	.0	.0	7.0	1.1	W
WNW	14	5.6	.6	.0	.0	.0	.0	6.2	1.1	WNW
NW	15	5.0	.6	.0	.0	.0	.0	5.6	1.2	NW
NNW	16	2.9	.3	.0	.0	.0	.0	3.2	1.2	NNW
CALM		3.5							3.5	
TOTAL		85.3	10.9	2.9	.9	.0	.0	100.0	1.3	

100.0% DATA RECOVERED
45.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time

8/ 1/1994 - 8/31/1994
2000 - 600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.2	1.5	.0	.0	.0	.0	4.7	1.7	N
NNE	2	9.7	2.1	.6	.3	.0	.0	12.6	1.6	NNE
NE	3	7.6	1.2	.0	.0	.0	.0	8.8	1.3	NE
ENE	4	2.9	.0	.0	.0	.0	.0	2.9	1.3	ENE
E	5	4.1	.9	.0	.0	.0	.0	5.0	1.4	E
ESE	6	1.8	.0	.0	.0	.0	.0	1.8	1.1	ESE
SE	7	1.2	.6	.3	.0	.0	.0	2.1	1.9	SE
SSE	8	1.8	.3	.0	.0	.0	.0	2.1	1.3	SSE
S	9	2.3	1.2	.0	.0	.0	.0	3.5	1.6	S
SSW	10	5.3	1.8	.3	.6	.0	.0	7.9	2.0	SSW
SW	11	9.1	.6	.6	.0	.0	.0	10.3	1.2	SW
WSW	12	8.8	.6	.3	.0	.0	.0	9.7	1.2	WSW
W	13	4.7	.0	.0	.0	.0	.0	4.7	1.0	W
WNW	14	5.0	.3	.3	.0	.0	.0	5.6	1.3	WNW
NW	15	5.0	1.8	.3	.0	.0	.0	7.0	1.5	NW
NNW	16	6.5	2.1	.0	.0	.0	.0	8.5	1.5	NNW
CALM		2.9							2.9	
TOTAL		81.8	14.7	2.6	.9	.0	.0	100.0	1.4	

100.0% DATA RECOVERED
45.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time

9/ 1/1994 - 9/30/1994
2000 - 600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	7.3	.3	.0	.0	.0	.0	7.6	1.0	N
NNE	2	6.7	.6	.9	.3	.0	.0	8.5	1.5	NNE
NE	3	4.5	1.5	.0	.0	.0	.0	6.1	1.4	NE
ENE	4	2.1	.3	.0	.0	.0	.0	2.4	1.1	ENE
E	5	1.5	.3	.0	.0	.0	.0	1.8	1.1	E
ESE	6	1.8	.0	.0	.0	.0	.0	1.8	1.0	ESE
SE	7	.9	.0	.0	.0	.0	.0	.9	1.2	SE
SSE	8	2.7	.0	.3	.0	.0	.0	3.0	1.2	SSE
S	9	6.4	.6	.6	.3	.0	.0	7.9	1.5	S
SSW	10	10.9	1.2	1.5	2.4	.0	.0	16.1	2.2	SSW
SW	11	10.9	1.2	1.2	.3	.0	.0	13.6	1.6	SW
WSW	12	8.2	.3	1.2	.0	.0	.0	9.7	1.5	WSW
W	13	5.8	.9	.0	.0	.0	.0	6.7	1.1	W
WNW	14	3.6	1.2	.0	.0	.0	.0	4.8	1.4	WNW
NW	15	2.7	.3	.0	.0	.0	.0	3.0	1.1	NW
NNW	16	2.7	.9	.0	.0	.0	.0	3.6	1.4	NNW
CALM		2.4							2.4	
TOTAL		81.2	9.7	5.8	3.3	.0	.0	100.0	1.5	

99.7% DATA RECOVERED
46.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time

10/ 1/1994 - 10/31/1994
2000 - 600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.2	.6	.9	.3	.0	.0	5.0	2.1	N
NNE	2	1.8	.9	.9	.3	.0	.0	3.8	2.4	NNE
NE	3	2.9	1.2	.6	.3	.0	.0	5.0	1.9	NE
ENE	4	3.5	1.5	.0	.0	.0	.0	5.0	1.5	ENE
E	5	2.6	.0	.0	.0	.0	.0	2.6	.9	E
ESE	6	1.8	.3	.0	.0	.0	.0	2.1	1.0	ESE
SE	7	.9	.0	.0	.0	.0	.0	.9	.9	SE
SSE	8	2.6	.0	.0	.0	.0	.0	2.6	.7	SSE
S	9	4.7	.0	.0	.0	.0	.0	4.7	1.0	S
SSW	10	8.5	1.5	.9	1.8	.3	.0	12.9	2.3	SSW
SW	11	14.1	1.5	1.2	.9	.0	.0	17.6	1.6	SW
WSW	12	11.7	1.2	.0	.3	.0	.0	13.2	1.2	WSW
W	13	8.2	.3	.0	.0	.0	.0	8.5	1.1	W
WNW	14	4.7	.3	.0	.0	.0	.0	5.0	1.1	WNW
NW	15	3.8	.0	.0	.0	.0	.0	3.8	.9	NW
NNW	16	4.7	.9	.0	.0	.0	.0	5.6	1.3	NNW
CALM		1.8							1.8	
TOTAL		81.5	10.0	4.4	3.8	.3	.0	100.0	1.5	

100.0% DATA RECOVERED
45.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	
1	WS <= .5
2	.5< WS <= 1.8
3	1.8< WS <= 3.3
4	3.3< WS <= 5.4
5	5.4< WS <= 8.5
6	8.5< WS <=10.8
	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time

11/ 1/1994 - 11/30/1994
2000 - 600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.5	1.5	.0	.0	.0	.0	6.1	1.5	N
NNE	2	4.2	2.4	1.2	.3	.0	.0	8.2	2.3	NNE
NE	3	2.1	2.7	.3	.0	.0	.0	5.2	2.1	NE
ENE	4	3.0	.3	.0	.0	.0	.0	3.3	1.1	ENE
E	5	3.3	.0	.3	.0	.0	.0	3.6	1.2	E
ESE	6	1.8	.0	.0	.0	.0	.0	1.8	.9	ESE
SE	7	1.2	.6	.0	.0	.0	.0	1.8	1.4	SE
SSE	8	2.7	.0	.0	.0	.0	.0	2.7	.8	SSE
S	9	4.2	.9	.0	.0	.0	.0	5.2	1.3	S
SSW	10	7.6	.9	.0	1.2	1.5	.0	11.2	2.9	SSW
SW	11	12.4	.9	.6	1.5	.0	.0	15.5	1.8	SW
WSW	12	7.6	.6	2.1	.3	.0	.0	10.6	1.9	WSW
W	13	4.5	.3	.0	.0	.0	.0	4.8	1.3	W
WNW	14	3.9	1.2	.0	.0	.0	.0	5.2	1.2	WNW
NW	15	5.8	2.1	.0	.3	.0	.0	8.2	1.6	NW
NNW	16	4.5	1.2	.3	.3	.0	.0	6.4	1.8	NNW
CALM		.3							.3	
TOTAL		73.9	15.8	4.8	3.9	1.5	.0	100.0	1.8	

100.0% DATA RECOVERED
45.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time

12/ 1/1994 - 12/31/1994
2000 - 600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.1	.5	.5	.0	.0	.0	5.0	1.5	N
NNE	2	4.1	2.3	1.4	.0	.0	.0	7.7	2.0	NNE
NE	3	3.2	2.7	2.3	.0	.0	.0	8.1	2.4	NE
ENE	4	1.8	1.8	.0	.0	.0	.0	3.6	1.8	ENE
E	5	1.8	1.4	.5	.0	.0	.0	3.6	1.8	E
ESE	6	1.4	.0	.0	.0	.0	.0	1.4	1.0	ESE
SE	7	2.3	.5	.0	.0	.0	.0	2.7	1.1	SE
SSE	8	2.7	.0	.0	.0	.0	.0	2.7	.8	SSE
S	9	4.1	.0	.0	.5	.0	.0	4.5	1.3	S
SSW	10	9.0	.5	.0	.0	.0	.0	9.5	1.2	SSW
SW	11	13.1	.5	.5	.0	.0	.0	14.0	1.3	SW
WSW	12	9.0	.0	.0	.0	.0	.0	9.0	1.0	WSW
W	13	4.5	.0	.0	.0	.0	.0	4.5	1.0	W
WNW	14	6.3	.9	.5	.0	.0	.0	7.7	1.5	WNW
NW	15	5.4	.9	.0	.0	.0	.0	6.3	1.2	NW
NNW	16	6.3	2.3	.0	.0	.0	.0	8.6	1.5	NNW
CALM		.9							.9	
TOTAL		80.1	14.0	5.4	.5	.0	.0	100.0	1.4	

65.1% DATA RECOVERED
45.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 1/ 1/1994 - 1/31/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	3.0	2.0	.0	.0	.0	.0	5.0	1.4	NE
ENE	4	11.0	1.0	.0	.0	.0	.0	12.0	1.0	ENE
E	5	11.0	1.0	.0	.0	.0	.0	12.0	1.1	E
ESE	6	11.0	.0	.0	.0	.0	.0	11.0	.8	ESE
SE	7	6.0	.0	.0	.0	.0	.0	6.0	.8	SE
SSE	8	9.0	.0	.0	.0	.0	.0	9.0	.8	SSE
S	9	8.0	.0	.0	.0	.0	.0	8.0	.9	S
SSW	10	6.0	.0	.0	.0	.0	.0	6.0	.7	SSW
SW	11	3.0	.0	.0	.0	.0	.0	3.0	1.1	SW
WSW	12	4.0	.0	.0	.0	.0	.0	4.0	.7	WSW
W	13	1.0	.0	.0	.0	.0	.0	1.0	1.6	W
WNW	14	1.0	.0	.0	.0	.0	.0	1.0	.6	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	1.0	.0	.0	.0	.0	.0	1.0	.6	NNW
CALM		21.0							21.0	
TOTAL		96.0	4.0	.0	.0	.0	.0	100.0	.7	

78.0% DATA RECOVERED
17.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

2/ 1/1994 - 2/28/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.0	.0	.0	.0	.0	.0	1.0	.7	N
NNE	2	7.6	.0	.0	.0	.0	.0	7.6	.8	NNE
NE	3	9.5	.0	.0	.0	.0	.0	9.5	.9	NE
ENE	4	15.2	.0	.0	.0	.0	.0	15.2	1.0	ENE
E	5	10.5	1.0	.0	.0	.0	.0	11.4	.9	E
ESE	6	7.6	.0	.0	.0	.0	.0	7.6	1.0	ESE
SE	7	2.9	.0	.0	.0	.0	.0	2.9	1.0	SE
SSE	8	3.8	.0	.0	.0	.0	.0	3.8	.7	SSE
S	9	8.6	.0	.0	.0	.0	.0	8.6	.8	S
SSW	10	4.8	1.9	.0	.0	.0	.0	6.7	1.2	SSW
SW	11	.0	1.0	.0	.0	.0	.0	1.0	2.5	SW
WSW	12	2.9	1.0	.0	.0	.0	.0	3.8	1.3	WSW
W	13	5.7	.0	.0	.0	.0	.0	5.7	.8	W
WNW	14	1.9	.0	.0	.0	.0	.0	1.9	.9	WNW
NW	15	3.8	1.0	.0	.0	.0	.0	4.8	1.1	NW
NNW	16	4.8	.0	.0	.0	.0	.0	4.8	.7	NNW
CALM		3.8							3.8	
TOTAL		94.3	5.7	.0	.0	.0	.0	100.0	.9	

85.4% DATA RECOVERED
18.3% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

3/ 1/1994 - 3/31/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.3	.7	.0	.0	.0	.0	4.0	1.5	N
NNE	2	2.7	.7	.0	.0	.0	.0	3.3	1.0	NNE
NE	3	7.3	2.7	.0	.0	.0	.0	10.0	1.3	NE
ENE	4	7.3	.0	.0	.0	.0	.0	7.3	1.0	ENE
E	5	6.7	2.7	.0	.0	.0	.0	9.3	1.4	E
ESE	6	4.0	1.3	.0	.0	.0	.0	5.3	1.2	ESE
SE	7	4.7	2.0	.0	.0	.0	.0	6.7	1.5	SE
SSE	8	5.3	.7	.0	.0	.0	.0	6.0	1.5	SSE
S	9	4.7	2.7	.0	.0	.0	.0	7.3	1.5	S
SSW	10	6.0	2.0	.0	.0	.0	.0	8.0	1.5	SSW
SW	11	4.0	1.3	.0	.0	.0	.0	5.3	1.6	SW
WSW	12	4.7	.7	.0	.0	.0	.0	5.3	1.3	WSW
W	13	2.0	.7	.0	.0	.0	.0	2.7	1.1	W
WNW	14	2.7	.0	.0	.0	.0	.0	2.7	1.1	WNW
NW	15	1.3	.0	.0	.0	.0	.0	1.3	1.0	NW
NNW	16	.0	.7	.0	.0	.0	.0	.7	2.0	NNW
CALM		14.7							14.7	
TOTAL		81.3	18.7	.0	.0	.0	.0	100.0	1.1	

100.0% DATA RECOVERED
20.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

4/ 1/1994 - 4/30/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.7	.0	.0	.0	.0	.0	.7	1.2	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	1.4	.0	.0	.0	.0	.0	1.4	1.3	NE
ENE	4	2.8	.0	.0	.0	.0	.0	2.8	1.1	ENE
E	5	5.0	2.8	.0	.0	.0	.0	7.8	1.5	E
ESE	6	6.4	3.5	.0	.0	.0	.0	9.9	1.5	ESE
SE	7	7.8	3.5	.0	.0	.0	.0	11.3	1.4	SE
SSE	8	12.8	4.3	.0	.0	.0	.0	17.0	1.4	SSE
S	9	8.5	2.8	.0	.0	.0	.0	11.3	1.3	S
SSW	10	10.6	5.0	.0	.0	.0	.0	15.6	1.4	SSW
SW	11	3.5	2.8	.0	.0	.0	.0	6.4	1.6	SW
WSW	12	4.3	1.4	.0	.0	.0	.0	5.7	1.4	WSW
W	13	2.1	.7	.0	.0	.0	.0	2.8	1.3	W
WNW	14	.7	.7	.0	.0	.0	.0	1.4	2.0	WNW
NW	15	.7	.0	.0	.0	.0	.0	.7	.8	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		5.0							5.0	
TOTAL		72.3	27.7	.0	.0	.0	.0	100.0	1.3	

99.4% DATA RECOVERED
19.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

5/ 1/1994 - 5/31/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	7.0	.6	.0	.0	.0	.0	7.6	1.1	N
NNE	2	7.6	.6	.0	.0	.0	.0	8.1	1.0	NNE
NE	3	4.7	1.2	.0	.0	.0	.0	5.8	1.2	NE
ENE	4	2.9	1.7	.0	.0	.0	.0	4.7	1.4	ENE
E	5	3.5	1.2	.0	.0	.0	.0	4.7	1.4	E
ESE	6	5.8	4.1	.0	.0	.0	.0	9.9	1.5	ESE
SE	7	3.5	.0	.0	.0	.0	.0	3.5	.8	SE
SSE	8	4.1	1.7	.0	.0	.0	.0	5.8	1.3	SSE
S	9	5.2	2.9	.0	.0	.0	.0	8.1	1.5	S
SSW	10	2.9	2.3	.0	.0	.0	.0	5.2	1.6	SSW
SW	11	6.4	3.5	.0	.0	.0	.0	9.9	1.5	SW
WSW	12	5.2	.6	.0	.0	.0	.0	5.8	1.1	WSW
W	13	1.2	.6	.0	.0	.0	.0	1.7	1.4	W
WNW	14	4.1	.6	.0	.0	.0	.0	4.7	1.1	WNW
NW	15	4.1	1.2	.0	.0	.0	.0	5.2	1.5	NW
NNW	16	2.9	1.2	.0	.0	.0	.0	4.1	1.2	NNW
CALM		5.2							5.2	
TOTAL		76.2	23.8	.0	.0	.0	.0	100.0	1.2	

96.9% DATA RECOVERED
23.9% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

6/ 1/1994 - 6/30/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.3	.7	.0	.0	.0	.0	5.1	1.1	N
NNE	2	4.3	.0	.0	.0	.0	.0	4.3	.9	NNE
NE	3	11.6	.0	.0	.0	.0	.0	11.6	.8	NE
ENE	4	8.0	2.2	.0	.0	.0	.0	10.1	1.2	ENE
E	5	5.1	2.9	.0	.0	.0	.0	8.0	1.4	E
ESE	6	3.6	2.2	.0	.0	.0	.0	5.8	1.5	ESE
SE	7	2.2	2.2	.0	.0	.0	.0	4.3	1.6	SE
SSE	8	4.3	.0	.0	.0	.0	.0	4.3	1.2	SSE
S	9	2.9	1.4	.0	.0	.0	.0	4.3	1.6	S
SSW	10	5.1	2.2	.0	.0	.0	.0	7.2	1.4	SSW
SW	11	3.6	5.8	.0	.0	.0	.0	9.4	2.0	SW
WSW	12	3.6	.7	.0	.0	.0	.0	4.3	.9	WSW
W	13	.7	.0	.0	.0	.0	.0	.7	1.2	W
WNW	14	1.4	.0	.0	.0	.0	.0	1.4	1.1	WNW
NW	15	2.9	.0	.0	.0	.0	.0	2.9	.7	NW
NNW	16	2.9	.7	.0	.0	.0	.0	3.6	1.2	NNW
CALM		12.3							12.3	
TOTAL		79.0	21.0	.0	.0	.0	.0	100.0	1.1	

100.0% DATA RECOVERED
19.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 7/ 1/1994 - 7/31/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.5	.6	.0	.0	.0	.0	4.1	.9	N
NNE	2	3.5	.6	.0	.0	.0	.0	4.1	1.1	NNE
NE	3	4.7	1.2	.0	.0	.0	.0	5.8	1.2	NE
ENE	4	8.1	1.2	.0	.0	.0	.0	9.3	1.2	ENE
E	5	7.0	.6	.0	.0	.0	.0	7.6	1.2	E
ESE	6	.6	.0	.0	.0	.0	.0	.6	.6	ESE
SE	7	6.4	2.3	.0	.0	.0	.0	8.7	1.2	SE
SSE	8	3.5	2.9	.0	.0	.0	.0	6.4	1.6	SSE
S	9	4.1	2.3	.0	.0	.0	.0	6.4	1.6	S
SSW	10	4.7	3.5	.0	.0	.0	.0	8.1	1.6	SSW
SW	11	3.5	2.9	.0	.0	.0	.0	6.4	1.7	SW
WSW	12	2.9	2.3	.0	.0	.0	.0	5.2	1.5	WSW
W	13	4.1	.0	.0	.0	.0	.0	4.1	.8	W
WNW	14	2.3	.0	.0	.0	.0	.0	2.3	.9	WNW
NW	15	3.5	.6	.0	.0	.0	.0	4.1	1.1	NW
NNW	16	2.9	.0	.0	.0	.0	.0	2.9	1.2	NNW
CALM		14.0							14.0	
TOTAL		79.1	20.9	.0	.0	.0	.0	100.0	1.1	

100.0% DATA RECOVERED
23.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

8/ 1/1994 - 8/31/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.7	.8	.0	.0	.0	.0	5.4	1.4	N
NNE	2	3.9	.8	.0	.0	.0	.0	4.7	1.0	NNE
NE	3	11.6	.0	.0	.0	.0	.0	11.6	1.0	NE
ENE	4	6.2	3.9	.0	.0	.0	.0	10.1	1.6	ENE
E	5	6.2	.8	.0	.0	.0	.0	7.0	1.1	E
ESE	6	3.9	.0	.0	.0	.0	.0	3.9	1.0	ESE
SE	7	6.2	.8	.0	.0	.0	.0	7.0	1.1	SE
SSE	8	2.3	.8	.0	.0	.0	.0	3.1	1.6	SSE
S	9	3.9	1.6	.0	.0	.0	.0	5.4	1.3	S
SSW	10	4.7	.0	.0	.0	.0	.0	4.7	.9	SSW
SW	11	2.3	.8	.0	.0	.0	.0	3.1	1.2	SW
WSW	12	4.7	.8	.0	.0	.0	.0	5.4	1.3	WSW
W	13	3.9	.0	.0	.0	.0	.0	3.9	1.0	W
WNW	14	3.1	.8	.0	.0	.0	.0	3.9	1.2	WNW
NW	15	1.6	.0	.0	.0	.0	.0	1.6	.9	NW
NNW	16	4.7	.0	.0	.0	.0	.0	4.7	1.0	NNW
CALM		14.7							14.7	
TOTAL		88.4	11.6	.0	.0	.0	.0	100.0	1.0	

100.0% DATA RECOVERED
17.3% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

9/ 1/1994 - 9/30/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.8	.0	.0	.0	.0	.0	3.8	1.2	N
NNE	2	1.5	.8	.0	.0	.0	.0	2.3	1.6	NNE
NE	3	10.7	2.3	.0	.0	.0	.0	13.0	1.3	NE
ENE	4	9.9	.0	.0	.0	.0	.0	9.9	.9	ENE
E	5	4.6	3.1	.0	.0	.0	.0	7.6	1.5	E
ESE	6	6.1	2.3	.0	.0	.0	.0	8.4	1.6	ESE
SE	7	4.6	2.3	.0	.0	.0	.0	6.9	1.5	SE
SSE	8	6.1	1.5	.0	.0	.0	.0	7.6	1.4	SSE
S	9	.0	.8	.0	.0	.0	.0	.8	2.7	S
SSW	10	6.9	3.1	.0	.0	.0	.0	9.9	1.5	SSW
SW	11	3.1	2.3	.0	.0	.0	.0	5.3	1.6	SW
WSW	12	2.3	.8	.0	.0	.0	.0	3.1	1.2	WSW
W	13	1.5	.0	.0	.0	.0	.0	1.5	1.2	W
WNW	14	1.5	.0	.0	.0	.0	.0	1.5	.7	WNW
NW	15	4.6	.8	.0	.0	.0	.0	5.3	.9	NW
NNW	16	1.5	1.5	.0	.0	.0	.0	3.1	1.6	NNW
CALM		9.9							9.9	
TOTAL		78.6	21.4	.0	.0	.0	.0	100.0	1.2	

99.7% DATA RECOVERED
18.2% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

10/ 1/1994 - 10/31/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.6	.0	.0	.0	.0	.0	1.6	1.3	N
NNE	2	6.5	.8	.0	.0	.0	.0	7.3	1.5	NNE
NE	3	6.5	1.6	.0	.0	.0	.0	8.1	1.3	NE
ENE	4	5.6	1.6	.0	.0	.0	.0	7.3	1.2	ENE
E	5	6.5	.0	.0	.0	.0	.0	6.5	1.1	E
ESE	6	5.6	.0	.0	.0	.0	.0	5.6	1.0	ESE
SE	7	6.5	.8	.0	.0	.0	.0	7.3	1.2	SE
SSE	8	13.7	.0	.0	.0	.0	.0	13.7	1.2	SSE
S	9	8.9	.8	.0	.0	.0	.0	9.7	1.4	S
SSW	10	7.3	.8	.0	.0	.0	.0	8.1	1.5	SSW
SW	11	3.2	.0	.0	.0	.0	.0	3.2	1.2	SW
WSW	12	4.8	.8	.0	.0	.0	.0	5.6	1.5	WSW
W	13	4.8	.0	.0	.0	.0	.0	4.8	1.2	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	2.4	.0	.0	.0	.0	.0	2.4	1.2	NW
NNW	16	4.0	.0	.0	.0	.0	.0	4.0	.9	NNW
CALM		4.8							4.8	
TOTAL		92.7	7.3	.0	.0	.0	.0	100.0	1.2	

100.0% DATA RECOVERED
16.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 11/ 1/1994 - 11/30/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.8	.0	.0	.0	.0	.0	5.8	.8	N
NNE	2	9.6	.0	.0	.0	.0	.0	9.6	1.0	NNE
NE	3	6.7	.0	.0	.0	.0	.0	6.7	1.0	NE
ENE	4	4.8	1.0	.0	.0	.0	.0	5.8	.9	ENE
E	5	13.5	1.9	.0	.0	.0	.0	15.4	1.2	E
ESE	6	6.7	.0	.0	.0	.0	.0	6.7	1.0	ESE
SE	7	3.8	1.9	.0	.0	.0	.0	5.8	1.6	SE
SSE	8	3.8	.0	.0	.0	.0	.0	3.8	1.1	SSE
S	9	3.8	1.9	.0	.0	.0	.0	5.8	1.5	S
SSW	10	5.8	.0	.0	.0	.0	.0	5.8	.9	SSW
SW	11	5.8	1.0	.0	.0	.0	.0	6.7	1.2	SW
WSW	12	1.9	.0	.0	.0	.0	.0	1.9	.6	WSW
W	13	1.9	.0	.0	.0	.0	.0	1.9	1.1	W
WNW	14	2.9	.0	.0	.0	.0	.0	2.9	.9	WNW
NW	15	3.8	.0	.0	.0	.0	.0	3.8	1.1	NW
NNW	16	3.8	.0	.0	.0	.0	.0	3.8	1.1	NNW
CALM		7.7							7.7	
TOTAL		92.3	7.7	.0	.0	.0	.0	100.0	1.0	

100.0% DATA RECOVERED
14.4% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

12/ 1/1994 - 12/31/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	7.1	.0	.0	.0	.0	.0	7.1	.9	N
NNE	2	6.0	2.4	.0	.0	.0	.0	8.3	1.3	NNE
NE	3	4.8	.0	.0	.0	.0	.0	4.8	1.0	NE
ENE	4	10.7	.0	.0	.0	.0	.0	10.7	.9	ENE
E	5	10.7	.0	.0	.0	.0	.0	10.7	.9	E
ESE	6	4.8	2.4	.0	.0	.0	.0	7.1	1.7	ESE
SE	7	4.8	.0	.0	.0	.0	.0	4.8	.8	SE
SSE	8	3.6	.0	.0	.0	.0	.0	3.6	.9	SSE
S	9	3.6	.0	.0	.0	.0	.0	3.6	1.0	S
SSW	10	2.4	.0	.0	.0	.0	.0	2.4	1.0	SSW
SW	11	3.6	1.2	.0	.0	.0	.0	4.8	1.3	SW
WSW	12	4.8	.0	.0	.0	.0	.0	4.8	.9	WSW
W	13	4.8	.0	.0	.0	.0	.0	4.8	1.0	W
WNW	14	2.4	.0	.0	.0	.0	.0	2.4	1.2	WNW
NW	15	6.0	.0	.0	.0	.0	.0	6.0	1.0	NW
NNW	16	2.4	.0	.0	.0	.0	.0	2.4	.8	NNW
CALM		11.9							11.9	
TOTAL		94.0	6.0	.0	.0	.0	.0	100.0	.9	

65.1% DATA RECOVERED
17.4% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

1/ 1/1994 - 1/31/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	5.7	5.7	.0	2.9	.0	.0	14.3	2.5	NE
ENE	4	8.6	2.9	.0	.0	.0	.0	11.4	1.1	ENE
E	5	5.7	.0	.0	.0	.0	.0	5.7	.9	E
ESE	6	5.7	.0	.0	.0	.0	.0	5.7	.9	ESE
SE	7	2.9	.0	.0	.0	.0	.0	2.9	1.4	SE
SSE	8	8.6	.0	.0	.0	.0	.0	8.6	.9	SSE
S	9	11.4	2.9	2.9	.0	.0	.0	17.1	1.6	S
SSW	10	.0	.0	.0	.0	.0	.0	.0	.0	SSW
SW	11	8.6	.0	2.9	.0	.0	.0	11.4	1.7	SW
WSW	12	2.9	.0	.0	.0	.0	.0	2.9	1.1	WSW
W	13	2.9	2.9	.0	.0	.0	.0	5.7	2.1	W
WNW	14	2.9	.0	.0	.0	.0	.0	2.9	.8	WNW
NW	15	2.9	.0	.0	.0	.0	.0	2.9	1.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		8.6							8.6	
TOTAL		77.1	14.3	5.7	2.9	.0	.0	100.0	1.4	

78.0% DATA RECOVERED
6.0% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

2/ 1/1994 - 2/28/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	3.4	3.4	.0	.0	6.9	6.3	N
NNE	2	.0	.0	3.4	.0	.0	.0	3.4	3.4	NNE
NE	3	6.9	.0	.0	.0	.0	.0	6.9	1.0	NE
ENE	4	6.9	.0	.0	.0	.0	.0	6.9	.9	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	3.4	3.4	.0	.0	.0	.0	6.9	1.4	ESE
SE	7	.0	.0	3.4	.0	.0	.0	3.4	3.4	SE
SSE	8	.0	3.4	.0	.0	.0	.0	3.4	1.8	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	6.9	3.4	3.4	.0	.0	.0	13.8	2.0	SSW
SW	11	13.8	3.4	3.4	.0	.0	.0	20.7	1.8	SW
WSW	12	10.3	.0	.0	.0	.0	.0	10.3	1.0	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	3.4	.0	.0	3.4	.0	.0	6.9	3.3	WNW
NW	15	3.4	.0	.0	3.4	.0	.0	6.9	4.4	NW
NNW	16	.0	.0	3.4	.0	.0	.0	3.4	3.6	NNW
CALM		.0							.0	
TOTAL		55.2	13.8	20.7	10.3	.0	.0	100.0	2.4	

85.4% DATA RECOVERED
5.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 3/ 1/1994 - 3/31/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	2.8	.0	.0	.0	2.8	3.5	N
NNE	2	2.8	5.6	2.8	.0	.0	.0	11.1	2.5	NNE
NE	3	.0	5.6	5.6	.0	.0	.0	11.1	3.3	NE
ENE	4	.0	5.6	2.8	.0	.0	.0	8.3	3.1	ENE
E	5	8.3	8.3	.0	.0	.0	.0	16.7	1.9	E
ESE	6	.0	2.8	.0	.0	.0	.0	2.8	2.6	ESE
SE	7	.0	2.8	.0	.0	.0	.0	2.8	2.5	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	5.6	2.8	2.8	.0	.0	.0	11.1	2.1	S
SSW	10	5.6	2.8	.0	8.3	.0	.0	16.7	3.7	SSW
SW	11	.0	2.8	5.6	.0	.0	.0	8.3	4.2	SW
WSW	12	5.6	.0	.0	.0	.0	.0	5.6	.8	WSW
W	13	2.8	.0	.0	.0	.0	.0	2.8	1.7	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0							.0	
TOTAL		30.6	38.9	22.2	8.3	.0	.0	100.0	2.8	

100.0% DATA RECOVERED
4.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

4/ 1/1994 - 4/30/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

W I N D S P E E D C L A S S

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	1.8	.0	.0	.0	1.8	3.7	N
NNE	2	.0	3.5	1.8	.0	.0	.0	5.3	3.3	NNE
NE	3	.0	.0	1.8	.0	.0	.0	1.8	3.4	NE
ENE	4	1.8	.0	.0	.0	.0	.0	1.8	1.3	ENE
E	5	1.8	1.8	.0	.0	.0	.0	3.5	2.0	E
ESE	6	.0	3.5	3.5	.0	.0	.0	7.0	3.6	ESE
SE	7	1.8	3.5	3.5	1.8	.0	.0	10.5	3.1	SE
SSE	8	1.8	1.8	3.5	.0	.0	.0	7.0	3.5	SSE
S	9	3.5	3.5	.0	.0	.0	.0	7.0	1.8	S
SSW	10	1.8	7.0	1.8	.0	.0	.0	10.5	2.8	SSW
SW	11	5.3	5.3	14.0	.0	.0	.0	24.6	3.1	SW
WSW	12	3.5	3.5	7.0	.0	.0	.0	14.0	2.8	WSW
W	13	1.8	1.8	1.8	.0	.0	.0	5.3	2.5	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0							.0	
TOTAL		22.8	35.1	40.4	1.8	.0	.0	100.0	2.9	

99.4% DATA RECOVERED
8.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

5/ 1/1994 - 5/31/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	1.8	.0	.0	.0	.0	1.8	2.8	N
NNE	2	1.8	.0	.0	.0	.0	.0	1.8	1.6	NNE
NE	3	.0	1.8	.0	.0	.0	.0	1.8	2.2	NE
ENE	4	1.8	.0	.0	.0	.0	.0	1.8	.8	ENE
E	5	.0	1.8	1.8	.0	.0	.0	3.5	4.0	E
ESE	6	1.8	.0	.0	.0	.0	.0	1.8	1.3	ESE
SE	7	.0	1.8	.0	.0	.0	.0	1.8	3.2	SE
SSE	8	.0	3.5	7.0	.0	.0	.0	10.5	3.7	SSE
S	9	.0	1.8	5.3	.0	.0	.0	7.0	3.7	S
SSW	10	.0	3.5	10.5	3.5	.0	.0	17.5	4.0	SSW
SW	11	1.8	7.0	26.3	.0	.0	.0	35.1	3.5	SW
WSW	12	.0	3.5	7.0	.0	.0	.0	10.5	3.9	WSW
W	13	1.8	1.8	.0	.0	.0	.0	3.5	1.7	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	1.8	.0	.0	.0	.0	.0	1.8	1.0	NNW
CALM		.0							.0	
TOTAL		10.5	28.1	57.9	3.5	.0	.0	100.0	3.4	

96.9% DATA RECOVERED
7.9% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

6/ 1/1994 - 6/30/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	11.9	.0	.0	.0	.0	.0	11.9	.9	NE
ENE	4	4.8	.0	.0	.0	.0	.0	4.8	.9	ENE
E	5	2.4	2.4	.0	.0	.0	.0	4.8	2.2	E
ESE	6	.0	2.4	.0	.0	.0	.0	2.4	2.9	ESE
SE	7	.0	2.4	.0	.0	.0	.0	2.4	2.4	SE
SSE	8	.0	2.4	2.4	.0	.0	.0	4.8	3.2	SSE
S	9	2.4	4.8	2.4	.0	.0	.0	9.5	2.6	S
SSW	10	.0	.0	16.7	2.4	.0	.0	19.0	4.3	SSW
SW	11	2.4	2.4	14.3	4.8	.0	.0	23.8	3.9	SW
WSW	12	2.4	2.4	7.1	.0	.0	.0	11.9	3.2	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	2.4	.0	.0	.0	.0	2.4	2.9	NW
NNW	16	2.4	.0	.0	.0	.0	.0	2.4	1.0	NNW
CALM		.0							.0	
TOTAL		28.6	21.4	42.9	7.1	.0	.0	100.0	3.0	

100.0% DATA RECOVERED
5.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

7/ 1/1994 - 7/31/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	1.5	.0	.0	.0	1.5	4.5	N
NNE	2	1.5	1.5	.0	.0	.0	.0	2.9	2.1	NNE
NE	3	1.5	4.4	.0	.0	.0	.0	5.9	2.3	NE
ENE	4	4.4	.0	.0	.0	.0	.0	4.4	1.1	ENE
E	5	.0	1.5	.0	.0	.0	.0	1.5	3.1	E
ESE	6	.0	1.5	.0	.0	.0	.0	1.5	2.9	ESE
SE	7	1.5	1.5	2.9	.0	.0	.0	5.9	3.1	SE
SSE	8	1.5	.0	1.5	.0	.0	.0	2.9	2.7	SSE
S	9	.0	2.9	1.5	.0	.0	.0	4.4	3.0	S
SSW	10	1.5	2.9	23.5	.0	.0	.0	27.9	3.8	SSW
SW	11	2.9	10.3	20.6	1.5	.0	.0	35.3	3.6	SW
WSW	12	.0	.0	2.9	.0	.0	.0	2.9	4.2	WSW
W	13	.0	.0	1.5	.0	.0	.0	1.5	3.9	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		1.5							1.5	
TOTAL		16.2	26.5	55.9	1.5	.0	.0	100.0	3.3	

100.0% DATA RECOVERED
9.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

8/ 1/1994 - 8/31/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	4.9	.0	.0	.0	.0	.0	4.9	1.2	NE
ENE	4	3.3	.0	.0	.0	.0	.0	3.3	.9	ENE
E	5	1.6	.0	.0	.0	.0	.0	1.6	.7	E
ESE	6	1.6	1.6	.0	.0	.0	.0	3.3	1.9	ESE
SE	7	.0	1.6	4.9	.0	.0	.0	6.6	3.3	SE
SSE	8	.0	1.6	1.6	.0	.0	.0	3.3	3.9	SSE
S	9	.0	4.9	3.3	.0	.0	.0	8.2	3.2	S
SSW	10	1.6	9.8	8.2	1.6	.0	.0	21.3	3.6	SSW
SW	11	1.6	4.9	29.5	.0	.0	.0	36.1	3.9	SW
WSW	12	1.6	.0	6.6	.0	.0	.0	8.2	3.6	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	1.6	.0	1.6	.0	.0	.0	3.3	2.3	NNW
CALM		.0							.0	
TOTAL		18.0	24.6	55.7	1.6	.0	.0	100.0	3.3	

100.0% DATA RECOVERED
8.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 9/ 1/1994 - 9/30/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.7	.0	2.7	.0	.0	.0	5.4	2.6	N
NNE	2	5.4	2.7	.0	.0	.0	.0	8.1	1.6	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	.0	2.7	.0	.0	.0	.0	2.7	1.9	ENE
E	5	2.7	2.7	.0	.0	.0	.0	5.4	1.9	E
ESE	6	5.4	.0	2.7	.0	.0	.0	8.1	1.8	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	2.7	.0	.0	.0	.0	.0	2.7	1.6	S
SSW	10	2.7	2.7	10.8	2.7	.0	.0	18.9	3.8	SSW
SW	11	2.7	5.4	13.5	2.7	.0	.0	24.3	3.8	SW
WSW	12	.0	2.7	2.7	.0	.0	.0	5.4	3.3	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	2.7	.0	2.7	.0	.0	.0	5.4	2.3	NNW
CALM		13.5							13.5	
TOTAL		40.5	18.9	35.1	5.4	.0	.0	100.0	2.6	

99.7% DATA RECOVERED
5.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 10/ 1/1994 - 10/31/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	7.9	.0	2.6	.0	.0	.0	10.5	1.4	N
NNE	2	.0	13.2	2.6	.0	.0	.0	15.8	3.1	NNE
NE	3	.0	.0	2.6	.0	.0	.0	2.6	3.4	NE
ENE	4	2.6	5.3	.0	.0	.0	.0	7.9	2.1	ENE
E	5	7.9	.0	.0	.0	.0	.0	7.9	.8	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	2.6	5.3	.0	.0	.0	.0	7.9	2.1	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	2.6	.0	.0	.0	.0	.0	2.6	1.0	S
SSW	10	7.9	2.6	2.6	2.6	.0	.0	15.8	2.8	SSW
SW	11	.0	10.5	.0	.0	.0	.0	10.5	2.8	SW
WSW	12	.0	2.6	2.6	.0	.0	.0	5.3	2.6	WSW
W	13	2.6	.0	.0	.0	.0	.0	2.6	1.1	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	2.6	.0	.0	.0	.0	2.6	1.9	NW
NNW	16	2.6	.0	.0	.0	.0	.0	2.6	.6	NNW
CALM		5.3							5.3	
TOTAL		42.1	42.1	13.2	2.6	.0	.0	100.0	2.1	

100.0% DATA RECOVERED
5.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 11/ 1/1994 - 11/30/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

W I N D S P E E D C L A S S

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	4.7	.0	2.3	2.3	.0	.0	9.3	3.1	NNE
NE	3	7.0	4.7	.0	.0	.0	.0	11.6	1.6	NE
ENE	4	9.3	2.3	.0	.0	.0	.0	11.6	1.3	ENE
E	5	2.3	.0	.0	.0	.0	.0	2.3	1.3	E
ESE	6	7.0	2.3	.0	.0	.0	.0	9.3	1.3	ESE
SE	7	7.0	2.3	.0	.0	.0	.0	9.3	1.4	SE
SSE	8	2.3	.0	.0	.0	.0	.0	2.3	.7	SSE
S	9	2.3	.0	4.7	.0	.0	.0	7.0	2.6	S
SSW	10	2.3	2.3	2.3	2.3	.0	.0	9.3	3.8	SSW
SW	11	.0	7.0	2.3	.0	.0	.0	9.3	3.1	SW
WSW	12	7.0	.0	.0	.0	.0	.0	7.0	1.0	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	2.3	4.7	.0	.0	7.0	5.3	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	2.3	.0	.0	.0	.0	.0	2.3	.7	NNW
CALM		2.3							2.3	
TOTAL		55.8	20.9	14.0	9.3	.0	.0	100.0	2.2	

100.0% DATA RECOVERED
6.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

12/ 1/1994 - 12/31/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	8.0	4.0	.0	.0	.0	.0	12.0	1.5	NNE
NE	3	4.0	4.0	8.0	.0	.0	.0	16.0	2.6	NE
ENE	4	12.0	4.0	.0	.0	.0	.0	16.0	1.5	ENE
E	5	4.0	.0	.0	.0	.0	.0	4.0	1.1	E
ESE	6	4.0	.0	.0	.0	.0	.0	4.0	.6	ESE
SE	7	12.0	4.0	.0	.0	.0	.0	16.0	1.3	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	8.0	.0	.0	.0	.0	.0	8.0	.7	S
SSW	10	.0	.0	.0	.0	.0	.0	.0	.0	SSW
SW	11	4.0	.0	.0	.0	.0	.0	4.0	.9	SW
WSW	12	.0	.0	.0	.0	.0	.0	.0	.0	WSW
W	13	4.0	.0	.0	.0	.0	.0	4.0	.9	W
WNW	14	8.0	4.0	.0	.0	.0	.0	12.0	1.8	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		4.0							4.0	
TOTAL		72.0	20.0	8.0	.0	.0	.0	100.0	1.4	

65.1% DATA RECOVERED
5.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 1/ 1/1994 - 1/31/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	4.0	.0	4.0	.0	.0	.0	8.0	2.3	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	20.0	4.0	.0	.0	.0	.0	24.0	1.3	ENE
E	5	12.0	.0	.0	.0	.0	.0	12.0	1.3	E
ESE	6	8.0	4.0	.0	.0	.0	.0	12.0	1.0	ESE
SE	7	8.0	.0	.0	.0	.0	.0	8.0	1.2	SE
SSE	8	8.0	.0	.0	.0	.0	.0	8.0	.8	SSE
S	9	4.0	.0	8.0	.0	.0	.0	12.0	2.9	S
SSW	10	12.0	.0	.0	.0	.0	.0	12.0	.9	SSW
SW	11	.0	.0	.0	.0	.0	.0	.0	.0	SW
WSW	12	.0	.0	.0	.0	.0	.0	.0	.0	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		4.0							4.0	
TOTAL		80.0	8.0	12.0	.0	.0	.0	100.0	1.4	

78.0% DATA RECOVERED
4.3% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

2/ 1/1994 - 2/28/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	8.8	.0	.0	.0	8.8	4.1	N
NNE	2	.0	.0	17.6	.0	.0	.0	17.6	4.4	NNE
NE	3	.0	8.8	.0	.0	.0	.0	8.8	2.4	NE
ENE	4	2.9	2.9	.0	.0	.0	.0	5.9	1.5	ENE
E	5	2.9	.0	.0	.0	.0	.0	2.9	1.3	E
ESE	6	2.9	2.9	.0	.0	.0	.0	5.9	1.6	ESE
SE	7	2.9	2.9	.0	.0	.0	.0	5.9	2.1	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	2.9	.0	2.9	.0	.0	.0	5.9	2.5	S
SSW	10	8.8	.0	2.9	.0	.0	.0	11.8	1.7	SSW
SW	11	2.9	.0	2.9	.0	.0	.0	5.9	2.2	SW
WSW	12	.0	.0	.0	.0	.0	.0	.0	.0	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	5.9	.0	2.9	.0	.0	.0	8.8	2.5	WNW
NW	15	.0	.0	.0	2.9	.0	.0	2.9	7.9	NW
NNW	16	.0	.0	.0	5.9	.0	.0	5.9	7.8	NNW
CALM		2.9							2.9	
TOTAL		35.3	17.6	38.2	8.8	.0	.0	100.0	3.1	

85.4% DATA RECOVERED
5.9% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 3/ 1/1994 - 3/31/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	4.3	.0	.0	.0	4.3	5.3	N
NNE	2	.0	.0	8.7	4.3	.0	.0	13.0	5.4	NNE
NE	3	.0	4.3	13.0	.0	.0	.0	17.4	3.4	NE
ENE	4	.0	4.3	8.7	.0	.0	.0	13.0	3.6	ENE
E	5	.0	.0	8.7	.0	.0	.0	8.7	3.7	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	13.0	.0	.0	.0	.0	.0	13.0	1.4	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	4.3	.0	.0	.0	.0	4.3	2.4	S
SSW	10	4.3	.0	.0	.0	.0	.0	4.3	.8	SSW
SW	11	.0	.0	21.7	.0	.0	.0	21.7	4.4	SW
WSW	12	.0	.0	.0	.0	.0	.0	.0	.0	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0							.0	
TOTAL		17.4	13.0	65.2	4.3	.0	.0	100.0	3.6	

100.0% DATA RECOVERED
3.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 4/ 1/1994 - 4/30/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	2.1	.0	.0	.0	2.1	4.2	NNE
NE	3	.0	.0	2.1	.0	.0	.0	2.1	4.0	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	4.2	.0	2.1	.0	.0	.0	6.3	2.1	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	4.2	4.2	.0	.0	.0	.0	8.3	1.8	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	2.1	2.1	8.3	2.1	.0	.0	14.6	3.5	S
SSW	10	.0	.0	12.5	.0	.0	.0	12.5	3.9	SSW
SW	11	4.2	4.2	22.9	6.3	.0	.0	37.5	3.9	SW
WSW	12	.0	2.1	4.2	2.1	.0	.0	8.3	4.4	WSW
W	13	.0	.0	4.2	2.1	.0	.0	6.3	4.7	W
WNW	14	.0	.0	.0	2.1	.0	.0	2.1	6.7	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0							.0	
TOTAL		14.6	12.5	58.3	14.6	.0	.0	100.0	3.7	

99.4% DATA RECOVERED
6.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 5/ 1/1994 - 5/31/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	7.7	.0	.0	.0	7.7	4.1	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	2.6	5.1	.0	.0	.0	7.7	3.5	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	.0	5.1	.0	.0	.0	5.1	4.4	SE
SSE	8	.0	.0	7.7	.0	.0	.0	7.7	4.2	SSE
S	9	2.6	.0	5.1	.0	.0	.0	7.7	3.3	S
SSW	10	5.1	.0	5.1	.0	.0	.0	10.3	2.8	SSW
SW	11	2.6	.0	25.6	5.1	.0	.0	33.3	4.4	SW
WSW	12	.0	.0	5.1	2.6	.0	.0	7.7	4.7	WSW
W	13	.0	.0	2.6	2.6	.0	.0	5.1	5.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	2.6	2.6	.0	.0	.0	5.1	3.5	NW
NNW	16	.0	.0	.0	2.6	.0	.0	2.6	6.3	NNW
CALM		.0							.0	
TOTAL		10.3	5.1	71.8	12.8	.0	.0	100.0	4.1	

96.9% DATA RECOVERED
5.4% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

6/ 1/1994 - 6/30/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	2.7	.0	2.7	.0	.0	.0	5.4	2.8	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	2.7	.0	.0	.0	.0	.0	2.7	1.1	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	2.7	.0	.0	.0	.0	.0	2.7	.7	S
SSW	10	2.7	.0	2.7	.0	.0	.0	5.4	2.4	SSW
SW	11	2.7	.0	27.0	27.0	.0	.0	56.8	5.2	SW
WSW	12	2.7	2.7	16.2	2.7	.0	.0	24.3	4.2	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	2.7	.0	.0	.0	.0	.0	2.7	1.1	NNW
CALM		.0							.0	
TOTAL		18.9	2.7	48.6	29.7	.0	.0	100.0	4.3	

100.0% DATA RECOVERED
5.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 7/ 1/1994 - 7/31/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	5.4	.0	.0	.0	5.4	4.7	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	2.7	.0	.0	.0	.0	.0	2.7	1.0	ESE
SE	7	.0	.0	2.7	.0	.0	.0	2.7	3.9	SE
SSE	8	2.7	.0	.0	.0	.0	.0	2.7	.9	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	.0	2.7	16.2	8.1	.0	.0	27.0	4.9	SSW
SW	11	2.7	2.7	37.8	13.5	.0	.0	56.8	4.8	SW
WSW	12	.0	.0	.0	.0	.0	.0	.0	.0	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	2.7	.0	.0	.0	2.7	4.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0							.0	
TOTAL		8.1	5.4	64.9	21.6	.0	.0	100.0	4.5	

100.0% DATA RECOVERED
5.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

8/ 1/1994 - 8/31/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	2.9	.0	.0	.0	.0	.0	2.9	.9	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	.0	.0	8.8	.0	.0	.0	8.8	4.4	ESE
SE	7	.0	.0	17.6	2.9	.0	.0	20.6	4.5	SE
SSE	8	.0	.0	2.9	.0	.0	.0	2.9	4.8	SSE
S	9	.0	.0	2.9	.0	.0	.0	2.9	3.7	S
SSW	10	.0	.0	8.8	2.9	.0	.0	11.8	5.1	SSW
SW	11	.0	.0	26.5	5.9	.0	.0	32.4	4.8	SW
WSW	12	.0	.0	17.6	.0	.0	.0	17.6	4.9	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0							.0	
TOTAL		2.9	.0	85.3	11.8	.0	.0	100.0	4.6	

100.0% DATA RECOVERED
4.6% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 9/ 1/1994 - 9/30/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.3	2.3	.0	.0	.0	.0	4.7	1.4	N
NNE	2	4.7	.0	2.3	.0	.0	.0	7.0	1.7	NNE
NE	3	2.3	.0	.0	.0	.0	.0	2.3	1.4	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	4.7	2.3	.0	.0	.0	.0	7.0	1.4	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	2.3	.0	.0	.0	.0	.0	2.3	.7	SE
SSE	8	2.3	.0	.0	.0	.0	.0	2.3	.6	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	2.3	.0	9.3	.0	.0	.0	11.6	3.9	SSW
SW	11	2.3	.0	32.6	9.3	.0	.0	44.2	4.8	SW
WSW	12	2.3	.0	4.7	.0	.0	.0	7.0	3.1	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	2.3	.0	.0	.0	.0	.0	2.3	.6	WNW
NW	15	2.3	.0	.0	.0	.0	.0	2.3	1.1	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		7.0							7.0	
TOTAL		37.2	4.7	48.8	9.3	.0	.0	100.0	3.2	

99.7% DATA RECOVERED
6.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

10/ 1/1994 - 10/31/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.0	.0	2.0	.0	.0	.0	6.0	2.8	N
NNE	2	.0	4.0	12.0	.0	.0	.0	16.0	3.8	NNE
NE	3	2.0	2.0	2.0	.0	.0	.0	6.0	2.2	NE
ENE	4	4.0	.0	.0	.0	.0	.0	4.0	.7	ENE
E	5	2.0	2.0	.0	.0	.0	.0	4.0	1.3	E
ESE	6	2.0	.0	.0	.0	.0	.0	2.0	.7	ESE
SE	7	6.0	.0	.0	.0	.0	.0	6.0	.9	SE
SSE	8	12.0	.0	.0	.0	.0	.0	12.0	1.0	SSE
S	9	4.0	.0	.0	.0	.0	.0	4.0	.7	S
SSW	10	8.0	.0	4.0	.0	.0	.0	12.0	1.9	SSW
SW	11	2.0	2.0	6.0	.0	.0	.0	10.0	3.3	SW
WSW	12	4.0	.0	2.0	.0	.0	.0	6.0	2.0	WSW
W	13	.0	.0	2.0	.0	.0	.0	2.0	5.3	W
WNW	14	.0	.0	2.0	.0	.0	.0	2.0	4.2	WNW
NW	15	2.0	.0	.0	.0	.0	.0	2.0	.5	NW
NNW	16	4.0	.0	.0	.0	.0	.0	4.0	.8	NNW
CALM		2.0							2.0	
TOTAL		58.0	10.0	32.0	.0	.0	.0	100.0	2.1	

100.0% DATA RECOVERED
6.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

11/ 1/1994 - 11/30/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	2.4	.0	.0	.0	.0	2.4	3.1	N
NNE	2	2.4	.0	4.9	.0	.0	.0	7.3	2.9	NNE
NE	3	7.3	4.9	4.9	.0	.0	.0	17.1	2.2	NE
ENE	4	.0	2.4	.0	.0	.0	.0	2.4	2.3	ENE
E	5	12.2	2.4	.0	.0	.0	.0	14.6	1.4	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	7.3	2.4	.0	.0	.0	.0	9.8	1.4	SE
SSE	8	2.4	.0	.0	.0	.0	.0	2.4	1.2	SSE
S	9	2.4	2.4	.0	.0	.0	.0	4.9	2.0	S
SSW	10	7.3	2.4	7.3	.0	.0	.0	17.1	2.7	SSW
SW	11	4.9	.0	.0	2.4	.0	.0	7.3	3.1	SW
WSW	12	.0	.0	2.4	.0	.0	.0	2.4	4.0	WSW
W	13	2.4	.0	2.4	.0	.0	.0	4.9	3.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	2.4	.0	.0	.0	.0	.0	2.4	.6	NNW
CALM		4.9							4.9	
TOTAL		56.1	19.5	22.0	2.4	.0	.0	100.0	2.1	

100.0% DATA RECOVERED
5.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

12/ 1/1994 - 12/31/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.3	.0	.0	.0	.0	.0	3.3	.7	N
NNE	2	13.3	6.7	.0	.0	.0	.0	20.0	1.7	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	13.3	.0	.0	.0	.0	.0	13.3	1.0	ENE
E	5	6.7	.0	.0	.0	.0	.0	6.7	.9	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	6.7	.0	.0	.0	.0	.0	6.7	.8	SSE
S	9	3.3	.0	.0	.0	.0	.0	3.3	.8	S
SSW	10	13.3	6.7	.0	.0	.0	.0	20.0	1.4	SSW
SW	11	6.7	3.3	.0	.0	.0	.0	10.0	1.6	SW
WSW	12	.0	.0	.0	.0	.0	.0	.0	.0	WSW
W	13	3.3	.0	.0	.0	.0	.0	3.3	.6	W
WNW	14	3.3	.0	.0	.0	.0	.0	3.3	1.5	WNW
NW	15	3.3	.0	3.3	.0	.0	.0	6.7	2.4	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		3.3							3.3	
TOTAL		80.0	16.7	3.3	.0	.0	.0	100.0	1.3	

65.1% DATA RECOVERED
6.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 1/ 1/1994 - 1/31/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	2.7	1.3	.0	.0	4.0	5.1	N
NNE	2	.0	5.3	9.3	9.3	.0	.0	24.0	5.0	NNE
NE	3	.0	4.0	1.3	.0	.0	.0	5.3	3.2	NE
ENE	4	6.7	.0	.0	.0	.0	.0	6.7	1.2	ENE
E	5	2.7	1.3	1.3	.0	.0	.0	5.3	2.3	E
ESE	6	1.3	2.7	1.3	1.3	.0	.0	6.7	3.5	ESE
SE	7	1.3	1.3	.0	.0	.0	.0	2.7	2.0	SE
SSE	8	1.3	1.3	.0	.0	.0	.0	2.7	2.2	SSE
S	9	1.3	1.3	1.3	.0	.0	.0	4.0	2.6	S
SSW	10	4.0	5.3	2.7	.0	.0	.0	12.0	2.5	SSW
SW	11	12.0	.0	.0	.0	.0	.0	12.0	1.2	SW
WSW	12	2.7	2.7	2.7	.0	.0	.0	8.0	2.5	WSW
W	13	1.3	.0	.0	.0	.0	.0	1.3	1.3	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	1.3	.0	.0	4.0	.0	5.3	8.0	NNW
CALM		.0							.0	
TOTAL		34.7	26.7	22.7	12.0	4.0	.0	100.0	3.3	

78.0% DATA RECOVERED
12.9% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

2/ 1/1994 - 2/28/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.8	1.5	3.8	.8	.0	.0	6.9	3.8	N
NNE	2	2.3	1.5	9.9	3.8	.0	.0	17.6	4.2	NNE
NE	3	.8	2.3	3.1	.0	.0	.0	6.1	3.2	NE
ENE	4	1.5	2.3	.0	.0	.0	.0	3.8	1.9	ENE
E	5	.8	2.3	1.5	.0	.0	.0	4.6	3.1	E
ESE	6	.8	.8	.0	.0	.0	.0	1.5	1.8	ESE
SE	7	.0	1.5	.0	.0	.0	.0	1.5	2.3	SE
SSE	8	.8	.0	.0	.0	.8	.0	1.5	4.8	SSE
S	9	4.6	1.5	2.3	5.3	.0	.0	13.7	4.0	S
SSW	10	7.6	.0	5.3	4.6	.0	.0	17.6	3.4	SSW
SW	11	4.6	3.1	2.3	.0	.0	.0	9.9	2.1	SW
WSW	12	3.1	.0	2.3	.8	.0	.0	6.1	2.7	WSW
W	13	.8	.0	.0	.0	.0	.0	.8	1.1	W
WNW	14	.8	1.5	.8	1.5	.8	.0	5.3	5.0	WNW
NW	15	.0	1.5	.0	.8	.0	.0	2.3	4.4	NW
NNW	16	.0	.0	.0	.8	.0	.0	.8	5.5	NNW
CALM		.0							.0	
TOTAL		29.0	19.8	31.3	18.3	1.5	.0	100.0	3.5	

85.4% DATA RECOVERED
22.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 3/ 1/1994 - 3/31/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.5	1.1	1.6	2.2	.5	5.9	7.7	N
NNE	2	.0	1.1	3.8	9.1	.0	.5	14.5	6.2	NNE
NE	3	.0	1.6	3.8	2.7	.0	.0	8.1	4.6	NE
ENE	4	.0	.5	.0	.0	.0	.0	.5	3.2	ENE
E	5	.0	.5	.5	.0	.0	.0	1.1	3.1	E
ESE	6	.0	1.1	.0	.0	.0	.0	1.1	2.1	ESE
SE	7	.5	.0	.0	.0	.0	.0	.5	1.1	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	.0	.0	2.7	.5	.0	3.2	7.6	S
SSW	10	1.6	3.2	3.8	12.9	3.2	3.8	28.5	7.1	SSW
SW	11	3.8	2.2	4.3	12.4	2.7	.0	25.3	5.6	SW
WSW	12	2.2	.5	.0	.0	.0	.0	2.7	1.9	WSW
W	13	.5	.5	.0	.0	.0	.0	1.1	1.8	W
WNW	14	.0	.5	.5	.0	.0	.0	1.1	3.7	WNW
NW	15	.0	1.1	.5	.5	.0	.0	2.2	3.7	NW
NNW	16	1.6	1.1	1.6	.0	.0	.0	4.3	2.5	NNW
CALM		.0							.0	
TOTAL		10.2	14.5	19.9	41.9	8.6	4.8	100.0	5.8	

100.0% DATA RECOVERED
25.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

4/ 1/1994 - 4/30/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.5	.5	1.4	.5	.0	2.7	5.6	N
NNE	2	.0	.0	1.4	1.4	1.8	.0	4.6	7.0	NNE
NE	3	2.3	.0	1.4	.0	.0	.0	3.7	2.5	NE
ENE	4	.9	.5	.0	.0	.0	.0	1.4	2.1	ENE
E	5	.9	1.4	.5	1.4	.0	.0	4.1	3.9	E
ESE	6	.5	1.4	.0	.5	.0	.0	2.3	3.1	ESE
SE	7	.0	.0	.5	.0	.0	.0	.5	4.0	SE
SSE	8	1.8	.5	.5	.0	.0	.0	2.7	2.3	SSE
S	9	.5	.5	.5	.5	.5	.0	2.3	4.4	S
SSW	10	3.2	1.8	5.0	8.7	5.9	6.4	31.1	7.4	SSW
SW	11	3.7	.9	7.3	8.2	3.2	.9	24.2	5.5	SW
WSW	12	2.7	.9	1.8	1.8	.0	.0	7.3	3.4	WSW
W	13	.5	1.8	.9	1.4	.0	.0	4.6	4.0	W
WNW	14	.0	.9	.0	.0	.0	.0	.9	2.5	WNW
NW	15	.5	1.8	.5	.0	1.4	.0	4.1	4.9	NW
NNW	16	.0	.5	.9	1.8	.0	.5	3.7	6.4	NNW
CALM		.0							.0	
TOTAL		17.4	13.2	21.5	26.9	13.2	7.8	100.0	5.5	

99.4% DATA RECOVERED
30.6% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 5/ 1/1994 - 5/31/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.5	.5	1.0	.0	.0	.0	2.1	2.8	NNE
NE	3	.0	.5	1.0	.0	.0	.0	1.5	4.0	NE
ENE	4	.0	.0	.5	.0	.0	.0	.5	3.8	ENE
E	5	.5	.0	.0	.0	.0	.0	.5	1.3	E
ESE	6	.0	1.5	.5	.0	.0	.0	2.1	2.8	ESE
SE	7	.0	.5	2.1	1.5	.0	.0	4.1	4.9	SE
SSE	8	.5	.5	1.5	.5	.0	.0	3.1	3.9	SSE
S	9	.0	.5	.0	1.0	1.0	.0	2.6	7.0	S
SSW	10	.5	.5	2.6	12.4	6.2	5.7	27.8	8.2	SSW
SW	11	3.6	1.5	5.7	20.6	12.4	1.5	45.4	6.8	SW
WSW	12	1.0	.0	3.6	2.1	.0	.0	6.7	4.4	WSW
W	13	.0	.0	.0	.5	.0	.0	.5	5.8	W
WNW	14	.0	.5	.0	.0	.0	.0	.5	3.0	WNW
NW	15	.0	1.0	.5	.0	.0	.0	1.5	3.0	NW
NNW	16	.0	.0	1.0	.0	.0	.0	1.0	4.7	NNW
CALM		.0							.0	
TOTAL		6.7	7.7	20.1	38.7	19.6	7.2	100.0	6.5	

96.9% DATA RECOVERED
26.9% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

6/ 1/1994 - 6/30/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.4	.0	.4	.4	.0	.0	1.1	4.3	NNE
NE	3	1.1	.0	.0	.0	.0	.0	1.1	1.5	NE
ENE	4	.4	.0	.0	.0	.0	.0	.4	1.5	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	.4	.0	.0	.0	.0	.4	3.2	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	.0	.4	.0	.0	.0	.4	4.9	S
SSW	10	.7	.7	2.9	9.6	7.0	.4	21.3	7.2	SSW
SW	11	1.8	3.3	7.4	37.9	9.6	2.2	62.1	6.9	SW
WSW	12	1.1	1.1	2.9	2.6	1.8	.4	9.9	5.4	WSW
W	13	.0	.4	.0	.0	.0	.0	.4	2.4	W
WNW	14	.0	.7	.7	.0	.0	.0	1.5	3.0	WNW
NW	15	.7	.7	.0	.0	.0	.0	1.5	1.9	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0							.0	
TOTAL		6.3	7.4	14.7	50.4	18.4	2.9	100.0	6.5	

100.0% DATA RECOVERED
37.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 7/ 1/1994 - 7/31/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	1.5	1.0	.5	.0	.0	.0	3.1	2.0	NNE
NE	3	1.5	2.6	.0	.0	.0	.0	4.1	1.8	NE
ENE	4	2.1	1.0	.0	.0	.0	.0	3.1	1.8	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	.0	.0	.0	.5	.0	.0	.5	7.1	ESE
SE	7	.0	.0	.0	1.0	.0	.0	1.0	6.6	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	.0	.0	.5	.5	.0	1.0	7.3	S
SSW	10	1.5	1.0	2.6	11.9	2.1	.0	19.1	6.2	SSW
SW	11	1.5	.5	9.8	45.9	4.6	.0	62.4	6.4	SW
WSW	12	.0	.5	1.5	.5	.0	.0	2.6	4.3	WSW
W	13	1.0	.5	.0	.0	.0	.0	1.5	1.6	W
WNW	14	.0	.5	.0	.0	.0	.0	.5	2.2	WNW
NW	15	.0	.5	.0	.0	.0	.0	.5	2.1	NW
NNW	16	.5	.0	.0	.0	.0	.0	.5	1.5	NNW
CALM		.0							.0	
TOTAL		9.8	8.2	14.4	60.3	7.2	.0	100.0	5.7	

100.0% DATA RECOVERED
26.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

8/ 1/1994 - 8/31/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.5	1.4	.0	.0	.0	.0	1.9	2.5	N
NNE	2	.0	1.9	1.0	.5	.0	.0	3.3	3.5	NNE
NE	3	1.9	1.0	.0	.0	.0	.0	2.9	1.7	NE
ENE	4	1.4	.0	.0	.0	.0	.0	1.4	1.8	ENE
E	5	1.0	.0	.5	.0	.0	.0	1.4	2.4	E
ESE	6	.0	.5	.0	.0	.0	.0	.5	3.0	ESE
SE	7	.0	.5	1.9	1.0	.0	.0	3.3	4.7	SE
SSE	8	.0	.0	.5	.0	.0	.0	.5	5.1	SSE
S	9	.0	.5	.0	3.8	.5	.0	4.8	6.4	S
SSW	10	.0	1.9	2.9	15.2	1.9	.0	21.9	6.7	SSW
SW	11	2.4	.0	3.3	37.6	6.2	.0	49.5	6.9	SW
WSW	12	1.0	1.0	1.0	1.0	.0	.0	3.8	3.4	WSW
W	13	.5	.5	.0	.0	.0	.0	1.0	1.6	W
WNW	14	.0	.5	.0	.0	.0	.0	.5	2.3	WNW
NW	15	.0	.5	.5	.5	.0	.0	1.4	4.1	NW
NNW	16	.0	1.9	.0	.0	.0	.0	1.9	2.5	NNW
CALM		.0							.0	
TOTAL		8.6	11.9	11.4	59.5	8.6	.0	100.0	5.9	

100.0% DATA RECOVERED
28.2% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 9/ 1/1994 - 9/30/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.4	.5	.0	1.4	.0	.0	3.2	3.9	N
NNE	2	.9	.0	1.4	2.3	.0	.0	4.6	4.9	NNE
NE	3	.9	.9	.0	.0	.0	.0	1.8	2.0	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	.5	.0	.0	.0	.0	.0	.5	1.2	ESE
SE	7	.5	.0	.0	.0	.0	.0	.5	.6	SE
SSE	8	.5	.0	.0	.0	.0	.0	.5	.8	SSE
S	9	3.2	.5	.9	.5	.0	.0	5.0	2.2	S
SSW	10	4.1	2.8	3.2	16.1	11.9	3.2	41.3	6.9	SSW
SW	11	3.7	1.4	6.0	11.5	1.4	1.4	25.2	5.5	SW
WSW	12	1.4	.5	3.7	.5	.0	.0	6.0	3.7	WSW
W	13	1.4	.5	.0	.0	.0	.0	1.8	1.0	W
WNW	14	.5	.9	.0	.0	.0	.0	1.4	2.1	WNW
NW	15	.9	.0	.5	.0	.0	.0	1.4	2.5	NW
NNW	16	.9	.5	.5	.9	.0	.0	2.8	4.2	NNW
CALM		4.1							4.1	
TOTAL		24.8	8.3	16.1	33.0	13.3	4.6	100.0	5.2	

99.7% DATA RECOVERED
30.4% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 10/ 1/1994 - 10/31/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.0	.8	1.6	1.2	.0	.0	7.6	2.6	N
NNE	2	.8	.4	2.8	3.2	.0	.0	7.2	4.9	NNE
NE	3	.8	1.6	.4	.4	.0	.0	3.2	2.6	NE
ENE	4	2.4	.8	.0	.0	.0	.0	3.2	1.1	ENE
E	5	2.0	.0	.0	.0	.0	.0	2.0	1.0	E
ESE	6	2.4	.0	.0	.0	.0	.0	2.4	.8	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	2.4	.4	.0	.0	.0	.0	2.8	1.0	SSE
S	9	3.2	.0	.8	.0	.0	.0	4.0	1.7	S
SSW	10	6.0	1.2	1.2	4.0	1.2	.4	14.1	4.1	SSW
SW	11	7.2	4.8	8.4	8.0	1.6	.4	30.5	4.4	SW
WSW	12	6.0	1.2	.8	1.2	.0	.0	9.2	2.1	WSW
W	13	2.8	.4	.0	.0	.0	.0	3.2	1.0	W
WNW	14	1.6	.0	.0	.0	.0	.0	1.6	.8	WNW
NW	15	2.4	.0	.0	.0	.0	.0	2.4	.8	NW
NNW	16	2.0	.8	.0	.8	.0	.0	3.6	2.6	NNW
CALM		2.8							2.8	
TOTAL		49.0	12.4	16.1	18.9	2.8	.8	100.0	3.1	

100.0% DATA RECOVERED
33.5% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

11/ 1/1994 - 11/30/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.5	1.6	.5	2.1	.0	.0	4.7	4.5	N
NNE	2	1.1	3.2	4.2	4.2	.0	.0	12.6	4.4	NNE
NE	3	1.6	5.3	.5	.5	.0	.0	7.9	2.7	NE
ENE	4	.5	1.6	1.1	.0	.0	.0	3.2	3.0	ENE
E	5	1.1	1.1	.0	.0	.0	.0	2.1	1.9	E
ESE	6	1.1	.5	.0	.0	.0	.0	1.6	1.5	ESE
SE	7	.5	1.1	1.1	.0	.0	.0	2.6	2.8	SE
SSE	8	1.1	.0	.5	.0	.0	.0	1.6	1.7	SSE
S	9	1.6	1.1	.0	.0	.0	.0	2.6	1.4	S
SSW	10	4.2	.0	2.1	4.2	3.7	3.7	17.9	6.8	SSW
SW	11	5.3	.0	2.6	10.5	2.1	.0	20.5	5.5	SW
WSW	12	1.1	.0	3.7	.5	.5	.0	5.8	4.3	WSW
W	13	1.6	.0	.0	.0	.0	.0	1.6	1.2	W
WNW	14	1.1	.5	.0	.5	.0	.0	2.1	2.9	WNW
NW	15	1.1	1.1	.0	2.6	.0	.0	4.7	4.9	NW
NNW	16	.5	2.6	1.6	2.6	.0	.0	7.4	4.2	NNW
CALM		1.1							1.1	
TOTAL		24.7	19.5	17.9	27.9	6.3	3.7	100.0	4.5	

100.0% DATA RECOVERED
26.4% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 12/ 1/1994 - 12/31/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	7.6	2.2	1.1	.0	.0	10.9	3.4	N
NNE	2	1.1	.0	12.0	6.5	.0	.0	19.6	4.7	NNE
NE	3	1.1	6.5	8.7	2.2	.0	.0	18.5	3.6	NE
ENE	4	4.3	1.1	.0	.0	.0	.0	5.4	1.6	ENE
E	5	3.3	1.1	1.1	.0	.0	.0	5.4	1.8	E
ESE	6	.0	1.1	.0	.0	.0	.0	1.1	2.0	ESE
SE	7	1.1	3.3	5.4	.0	.0	.0	9.8	3.3	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	1.1	.0	.0	1.1	.0	.0	2.2	3.4	S
SSW	10	2.2	.0	.0	.0	.0	.0	2.2	1.2	SSW
SW	11	2.2	3.3	3.3	.0	.0	.0	8.7	2.7	SW
WSW	12	2.2	.0	.0	.0	.0	.0	2.2	.9	WSW
W	13	1.1	1.1	.0	.0	.0	.0	2.2	1.5	W
WNW	14	1.1	2.2	1.1	.0	.0	.0	4.3	3.0	WNW
NW	15	.0	1.1	.0	.0	.0	.0	1.1	1.9	NW
NNW	16	2.2	.0	.0	.0	.0	.0	2.2	1.6	NNW
CALM		4.3							4.3	
TOTAL		27.2	28.3	33.7	10.9	.0	.0	100.0	3.1	

65.1% DATA RECOVERED
19.0% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 1/ 1/1994 - 1/31/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	1.9	.0	.0	.0	1.9	3.8	N
NNE	2	.0	3.7	5.6	.0	.0	.0	9.3	3.0	NNE
NE	3	.0	1.9	3.7	.0	.0	.0	5.6	3.5	NE
ENE	4	.0	7.4	1.9	.0	.0	.0	9.3	2.9	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	.0	5.6	3.7	.0	.0	.0	9.3	3.0	ESE
SE	7	3.7	3.7	.0	.0	.0	.0	7.4	1.5	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	3.7	3.7	.0	.0	.0	.0	7.4	1.8	S
SSW	10	9.3	1.9	.0	.0	.0	.0	11.1	1.4	SSW
SW	11	14.8	.0	.0	.0	.0	.0	14.8	1.4	SW
WSW	12	11.1	1.9	.0	.0	.0	.0	13.0	1.3	WSW
W	13	3.7	.0	.0	.0	.0	.0	3.7	1.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	3.7	3.7	.0	.0	.0	.0	7.4	2.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0							.0	
TOTAL		50.0	33.3	16.7	.0	.0	.0	100.0	2.0	

78.0% DATA RECOVERED
9.3% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

2/ 1/1994 - 2/28/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.1	4.3	6.4	.0	.0	.0	12.8	3.0	N
NNE	2	.0	2.1	6.4	.0	.0	.0	8.5	3.9	NNE
NE	3	4.3	2.1	.0	.0	.0	.0	6.4	1.4	NE
ENE	4	2.1	8.5	.0	.0	.0	.0	10.6	2.5	ENE
E	5	2.1	.0	2.1	.0	.0	.0	4.3	3.2	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	6.4	.0	.0	.0	.0	.0	6.4	1.0	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	4.3	.0	.0	.0	.0	.0	4.3	1.5	S
SSW	10	8.5	.0	.0	.0	.0	.0	8.5	1.4	SSW
SW	11	12.8	6.4	.0	.0	.0	.0	19.1	1.4	SW
WSW	12	6.4	2.1	.0	2.1	.0	.0	10.6	2.1	WSW
W	13	4.3	.0	.0	.0	.0	.0	4.3	1.1	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	2.1	.0	.0	.0	.0	2.1	2.1	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		2.1							2.1	
TOTAL		55.3	27.7	14.9	2.1	.0	.0	100.0	2.1	

85.4% DATA RECOVERED
8.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 3/ 1/1994 - 3/31/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.3	1.3	2.5	.0	.0	.0	5.1	2.7	N
NNE	2	1.3	3.8	3.8	1.3	.0	.0	10.1	3.5	NNE
NE	3	2.5	5.1	1.3	.0	.0	.0	8.9	2.5	NE
ENE	4	.0	5.1	.0	.0	.0	.0	5.1	2.5	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	.0	1.3	.0	.0	.0	.0	1.3	1.9	ESE
SE	7	.0	1.3	.0	.0	.0	.0	1.3	2.7	SE
SSE	8	.0	1.3	.0	.0	.0	.0	1.3	2.9	SSE
S	9	3.8	1.3	2.5	.0	.0	.0	7.6	2.4	S
SSW	10	8.9	7.6	.0	.0	.0	.0	16.5	1.7	SSW
SW	11	3.8	11.4	2.5	.0	.0	.0	17.7	2.5	SW
WSW	12	2.5	3.8	.0	.0	.0	.0	6.3	2.0	WSW
W	13	2.5	1.3	.0	.0	.0	.0	3.8	1.7	W
WNW	14	1.3	1.3	.0	.0	.0	.0	2.5	1.5	WNW
NW	15	3.8	2.5	.0	.0	.0	.0	6.3	1.8	NW
NNW	16	1.3	2.5	1.3	.0	.0	.0	5.1	2.6	NNW
CALM		1.3							1.3	
TOTAL		34.2	50.6	13.9	1.3	.0	.0	100.0	2.3	

100.0% DATA RECOVERED
10.6% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 4/ 1/1994 - 4/30/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	1.6	1.6	.0	.0	.0	3.3	3.1	NNE
NE	3	.0	3.3	1.6	.0	.0	.0	4.9	3.1	NE
ENE	4	.0	3.3	.0	.0	.0	.0	3.3	2.8	ENE
E	5	3.3	.0	1.6	.0	.0	.0	4.9	1.9	E
ESE	6	1.6	1.6	.0	.0	.0	.0	3.3	1.6	ESE
SE	7	.0	1.6	.0	.0	.0	.0	1.6	2.0	SE
SSE	8	4.9	1.6	.0	.0	.0	.0	6.6	1.5	SSE
S	9	8.2	1.6	.0	.0	.0	.0	9.8	1.3	S
SSW	10	8.2	3.3	1.6	.0	.0	.0	13.1	1.8	SSW
SW	11	6.6	8.2	8.2	.0	.0	.0	23.0	2.9	SW
WSW	12	4.9	3.3	.0	.0	.0	.0	8.2	1.8	WSW
W	13	3.3	1.6	.0	.0	.0	.0	4.9	1.5	W
WNW	14	3.3	1.6	.0	.0	.0	.0	4.9	1.6	WNW
NW	15	1.6	1.6	.0	.0	.0	.0	3.3	1.9	NW
NNW	16	1.6	.0	1.6	.0	.0	.0	3.3	2.5	NNW
CALM		1.6							1.6	
TOTAL		49.2	34.4	16.4	.0	.0	.0	100.0	2.1	

99.4% DATA RECOVERED
8.5% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 5/ 1/1994 - 5/31/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	2.8	.0	.0	.0	2.8	3.7	N
NNE	2	4.2	1.4	.0	1.4	.0	.0	7.0	2.6	NNE
NE	3	.0	4.2	.0	.0	.0	.0	4.2	2.0	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	1.4	1.4	1.4	.0	.0	.0	4.2	2.3	ESE
SE	7	2.8	1.4	1.4	.0	.0	.0	5.6	2.5	SE
SSE	8	2.8	.0	.0	.0	.0	.0	2.8	1.2	SSE
S	9	2.8	2.8	2.8	.0	.0	.0	8.5	2.6	S
SSW	10	4.2	1.4	.0	.0	.0	.0	5.6	1.7	SSW
SW	11	5.6	9.9	4.2	.0	1.4	.0	21.1	2.8	SW
WSW	12	1.4	7.0	8.5	.0	.0	.0	16.9	3.2	WSW
W	13	5.6	1.4	.0	.0	.0	.0	7.0	1.5	W
WNW	14	1.4	.0	2.8	.0	.0	.0	4.2	2.9	WNW
NW	15	1.4	1.4	1.4	.0	.0	.0	4.2	2.4	NW
NNW	16	2.8	2.8	.0	.0	.0	.0	5.6	1.8	NNW
CALM		.0							.0	
TOTAL		36.6	35.2	25.4	1.4	1.4	.0	100.0	2.5	

96.9% DATA RECOVERED
9.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

6/ 1/1994 - 6/30/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	4.4	.0	.0	.0	.0	.0	4.4	1.3	NNE
NE	3	11.1	.0	.0	.0	.0	.0	11.1	1.4	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	2.2	.0	.0	.0	.0	2.2	2.9	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	2.2	.0	.0	.0	.0	2.2	3.0	S
SSW	10	4.4	6.7	4.4	.0	.0	.0	15.6	2.5	SSW
SW	11	11.1	11.1	6.7	.0	.0	.0	28.9	2.2	SW
WSW	12	6.7	11.1	.0	.0	.0	.0	17.8	1.9	WSW
W	13	2.2	4.4	2.2	.0	.0	.0	8.9	2.7	W
WNW	14	.0	2.2	4.4	.0	.0	.0	6.7	3.4	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	2.2	.0	.0	.0	.0	.0	2.2	1.7	NNW
CALM		.0							.0	
TOTAL		42.2	40.0	17.8	.0	.0	.0	100.0	2.2	

100.0% DATA RECOVERED
6.3% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 7/ 1/1994 - 7/31/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.0	.0	.0	.0	.0	.0	3.0	1.4	N
NNE	2	3.0	.0	1.5	.0	.0	.0	4.5	2.3	NNE
NE	3	3.0	9.0	.0	.0	.0	.0	11.9	2.0	NE
ENE	4	1.5	.0	.0	.0	.0	.0	1.5	1.7	ENE
E	5	.0	.0	.0	1.5	.0	.0	1.5	6.7	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	1.5	.0	1.5	.0	.0	.0	3.0	2.4	SE
SSE	8	1.5	.0	.0	.0	.0	.0	1.5	1.7	SSE
S	9	.0	4.5	.0	.0	.0	.0	4.5	2.8	S
SSW	10	6.0	4.5	3.0	1.5	.0	.0	14.9	2.9	SSW
SW	11	13.4	9.0	10.4	.0	.0	.0	32.8	2.5	SW
WSW	12	9.0	6.0	1.5	.0	.0	.0	16.4	1.9	WSW
W	13	1.5	1.5	.0	.0	.0	.0	3.0	2.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	1.5	.0	.0	.0	.0	1.5	3.1	NNW
CALM		.0							.0	
TOTAL		43.3	35.8	17.9	3.0	.0	.0	100.0	2.4	

100.0% DATA RECOVERED
9.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

8/ 1/1994 - 8/31/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	1.5	.0	.0	.0	.0	1.5	2.4	N
NNE	2	1.5	1.5	.0	.0	.0	.0	3.1	2.0	NNE
NE	3	4.6	3.1	.0	.0	.0	.0	7.7	1.7	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	1.5	4.6	.0	.0	.0	.0	6.2	2.7	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	1.5	.0	.0	.0	.0	1.5	3.1	SSE
S	9	3.1	7.7	1.5	.0	.0	.0	12.3	2.6	S
SSW	10	4.6	4.6	9.2	.0	.0	.0	18.5	2.9	SSW
SW	11	7.7	9.2	6.2	.0	.0	.0	23.1	2.5	SW
WSW	12	4.6	4.6	1.5	.0	.0	.0	10.8	2.4	WSW
W	13	.0	1.5	.0	.0	.0	.0	1.5	2.0	W
WNW	14	.0	.0	1.5	.0	.0	.0	1.5	3.8	WNW
NW	15	1.5	6.2	.0	.0	.0	.0	7.7	2.2	NW
NNW	16	3.1	1.5	.0	.0	.0	.0	4.6	1.8	NNW
CALM		.0							.0	
TOTAL		32.3	47.7	20.0	.0	.0	.0	100.0	2.5	

100.0% DATA RECOVERED
8.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

9/ 1/1994 - 9/30/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	7.9	.0	.0	.0	.0	.0	7.9	1.0	N
NNE	2	3.0	1.0	1.0	.0	.0	.0	5.0	1.7	NNE
NE	3	3.0	1.0	.0	.0	.0	.0	4.0	1.4	NE
ENE	4	3.0	.0	.0	.0	.0	.0	3.0	1.0	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	2.0	.0	.0	.0	.0	.0	2.0	.7	ESE
SE	7	2.0	.0	.0	.0	.0	.0	2.0	1.3	SE
SSE	8	1.0	.0	1.0	.0	.0	.0	2.0	2.7	SSE
S	9	5.9	1.0	1.0	.0	.0	.0	7.9	1.4	S
SSW	10	11.9	5.0	.0	.0	.0	.0	16.8	1.5	SSW
SW	11	15.8	5.0	3.0	.0	.0	.0	23.8	1.8	SW
WSW	12	5.9	3.0	2.0	.0	.0	.0	10.9	2.1	WSW
W	13	5.0	1.0	.0	.0	.0	.0	5.9	1.2	W
WNW	14	2.0	1.0	.0	.0	.0	.0	3.0	1.8	WNW
NW	15	1.0	1.0	.0	.0	.0	.0	2.0	1.5	NW
NNW	16	2.0	2.0	.0	.0	.0	.0	4.0	1.9	NNW
CALM		.0							.0	
TOTAL		71.3	20.8	7.9	.0	.0	.0	100.0	1.6	

99.7% DATA RECOVERED
14.1% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 10/ 1/1994 - 10/31/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.4	.8	.8	.0	.0	.0	4.0	2.2	N
NNE	2	1.6	4.0	.8	.0	.0	.0	6.4	2.2	NNE
NE	3	.8	.8	.8	.0	.0	.0	2.4	2.6	NE
ENE	4	1.6	1.6	.0	.0	.0	.0	3.2	1.9	ENE
E	5	2.4	.8	.0	.0	.0	.0	3.2	1.5	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.8	.0	.0	.0	.0	.0	.8	1.3	SE
SSE	8	2.4	.0	.0	.0	.0	.0	2.4	.7	SSE
S	9	4.0	.0	.8	.0	.0	.0	4.8	1.3	S
SSW	10	12.0	4.0	.0	.0	.0	.0	16.0	1.5	SSW
SW	11	11.2	5.6	.8	.0	.0	.0	17.6	1.5	SW
WSW	12	9.6	1.6	1.6	.0	.0	.0	12.8	1.4	WSW
W	13	8.8	.0	.0	.0	.0	.0	8.8	.9	W
WNW	14	5.6	2.4	.0	.0	.0	.0	8.0	1.4	WNW
NW	15	4.8	.8	.0	.0	.0	.0	5.6	1.2	NW
NNW	16	4.0	.0	.0	.0	.0	.0	4.0	.8	NNW
CALM		.0							.0	
TOTAL		72.0	22.4	5.6	.0	.0	.0	100.0	1.5	

100.0% DATA RECOVERED
16.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

11/ 1/1994 - 11/30/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.2	3.7	.0	.0	.0	.0	4.9	2.6	N
NNE	2	2.5	4.9	3.7	.0	.0	.0	11.1	2.7	NNE
NE	3	.0	6.2	.0	.0	.0	.0	6.2	2.5	NE
ENE	4	3.7	3.7	.0	.0	.0	.0	7.4	1.6	ENE
E	5	3.7	.0	1.2	.0	.0	.0	4.9	2.0	E
ESE	6	1.2	.0	.0	.0	.0	.0	1.2	.9	ESE
SE	7	2.5	.0	.0	.0	.0	.0	2.5	1.6	SE
SSE	8	2.5	.0	.0	.0	.0	.0	2.5	1.1	SSE
S	9	1.2	3.7	.0	.0	.0	.0	4.9	2.0	S
SSW	10	1.2	6.2	.0	.0	.0	.0	7.4	1.9	SSW
SW	11	11.1	4.9	2.5	.0	.0	.0	18.5	1.8	SW
WSW	12	4.9	.0	2.5	1.2	.0	.0	8.6	2.4	WSW
W	13	4.9	.0	.0	.0	.0	.0	4.9	1.1	W
WNW	14	3.7	2.5	.0	.0	.0	.0	6.2	1.4	WNW
NW	15	.0	6.2	.0	.0	.0	.0	6.2	2.6	NW
NNW	16	1.2	1.2	.0	.0	.0	.0	2.5	2.0	NNW
CALM		.0							.0	
TOTAL		45.7	43.2	9.9	1.2	.0	.0	100.0	2.0	

100.0% DATA RECOVERED
11.3% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

12/ 1/1994 - 12/31/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	2.2	.0	.0	.0	2.2	3.9	N
NNE	2	2.2	8.7	2.2	.0	.0	.0	13.0	2.6	NNE
NE	3	4.3	2.2	2.2	.0	.0	.0	8.7	2.5	NE
ENE	4	4.3	4.3	.0	.0	.0	.0	8.7	1.7	ENE
E	5	.0	4.3	.0	.0	.0	.0	4.3	2.4	E
ESE	6	2.2	.0	.0	.0	.0	.0	2.2	.6	ESE
SE	7	2.2	2.2	.0	.0	.0	.0	4.3	1.5	SE
SSE	8	2.2	.0	.0	.0	.0	.0	2.2	.6	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	.0	2.2	2.2	.0	.0	.0	4.3	3.6	SSW
SW	11	13.0	.0	.0	.0	.0	.0	13.0	1.2	SW
WSW	12	6.5	2.2	.0	.0	.0	.0	8.7	1.3	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	8.7	.0	.0	.0	.0	8.7	2.7	NW
NNW	16	6.5	13.0	.0	.0	.0	.0	19.6	2.3	NNW
CALM		.0							.0	
TOTAL		43.5	47.8	8.7	.0	.0	.0	100.0	2.1	

65.1% DATA RECOVERED
9.5% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 1/ 1/1994 - 1/31/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	.7	.0	.0	.0	.0	.0	.7	1.0	NE
ENE	4	1.0	.7	.0	.0	.0	.0	1.7	1.7	ENE
E	5	3.8	.3	.0	.0	.0	.0	4.1	1.1	E
ESE	6	4.1	.3	.0	.0	.0	.0	4.5	1.1	ESE
SE	7	6.2	.0	.0	.0	.0	.0	6.2	.9	SE
SSE	8	9.3	.0	.0	.0	.0	.0	9.3	.8	SSE
S	9	13.1	.3	.0	.0	.0	.0	13.4	1.0	S
SSW	10	16.5	1.0	.0	.0	.0	.0	17.5	1.0	SSW
SW	11	18.2	1.4	.0	.0	.0	.0	19.6	1.0	SW
WSW	12	10.3	.0	.0	.0	.0	.0	10.3	1.0	WSW
W	13	5.8	.0	.0	.0	.0	.0	5.8	.9	W
WNW	14	1.4	.0	.0	.0	.0	.0	1.4	1.4	WNW
NW	15	1.4	.3	.0	.0	.0	.0	1.7	1.3	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		3.8							3.8	
TOTAL		95.5	4.5	.0	.0	.0	.0	100.0	1.0	

78.0% DATA RECOVERED
50.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 2/ 1/1994 - 2/28/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.7	.9	.0	.0	.0	.0	6.6	1.4	N
NNE	2	5.7	.4	.0	.0	.0	.0	6.1	1.2	NNE
NE	3	2.2	.9	.0	.0	.0	.0	3.1	1.4	NE
ENE	4	5.3	.0	.0	.0	.0	.0	5.3	1.0	ENE
E	5	3.1	.0	.0	.0	.0	.0	3.1	1.1	E
ESE	6	1.3	.0	.0	.0	.0	.0	1.3	.9	ESE
SE	7	3.5	.9	.0	.0	.0	.0	4.4	1.1	SE
SSE	8	3.1	.9	.0	.0	.0	.0	3.9	1.2	SSE
S	9	3.9	.4	.0	.0	.0	.0	4.4	1.0	S
SSW	10	8.3	.0	.0	.0	.0	.0	8.3	1.0	SSW
SW	11	11.8	.0	.0	.0	.0	.0	11.8	1.0	SW
WSW	12	7.9	1.3	.0	.0	.0	.0	9.2	1.3	WSW
W	13	7.9	.4	.0	.0	.0	.0	8.3	1.1	W
WNW	14	9.2	.9	.0	.0	.0	.0	10.1	1.3	WNW
NW	15	6.6	.0	.0	.0	.0	.0	6.6	1.0	NW
NNW	16	4.4	.0	.0	.0	.0	.0	4.4	1.1	NNW
CALM		3.1							3.1	
TOTAL		93.0	7.0	.0	.0	.0	.0	100.0	1.1	

85.4% DATA RECOVERED
39.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 3/ 1/1994 - 3/31/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.9	.0	.0	.0	.0	.0	5.9	1.0	N
NNE	2	4.4	.0	.0	.0	.0	.0	4.4	1.2	NNE
NE	3	4.1	.4	.0	.0	.0	.0	4.4	1.3	NE
ENE	4	4.1	.4	.0	.0	.0	.0	4.4	1.4	ENE
E	5	3.3	.0	.0	.0	.0	.0	3.3	1.1	E
ESE	6	3.3	.0	.0	.0	.0	.0	3.3	1.2	ESE
SE	7	3.0	.7	.0	.0	.0	.0	3.7	1.4	SE
SSE	8	3.7	.0	.0	.0	.0	.0	3.7	.9	SSE
S	9	3.3	.0	.0	.0	.0	.0	3.3	.9	S
SSW	10	9.6	.0	.0	.0	.0	.0	9.6	.9	SSW
SW	11	14.8	.4	.0	.0	.0	.0	15.2	1.1	SW
WSW	12	11.1	.4	.0	.0	.0	.0	11.5	1.1	WSW
W	13	7.4	1.1	.0	.0	.0	.0	8.5	1.2	W
WNW	14	6.3	.0	.0	.0	.0	.0	6.3	1.1	WNW
NW	15	5.2	.7	.0	.0	.0	.0	5.9	1.2	NW
NNW	16	4.4	.4	.0	.0	.0	.0	4.8	1.1	NNW
CALM		1.5							1.5	
TOTAL		95.6	4.4	.0	.0	.0	.0	100.0	1.1	

100.0% DATA RECOVERED
36.3% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 4/ 1/1994 - 4/30/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.5	.0	.0	.0	.0	.0	.5	1.5	NNE
NE	3	2.1	.0	.0	.0	.0	.0	2.1	1.2	NE
ENE	4	2.1	.0	.0	.0	.0	.0	2.1	1.2	ENE
E	5	2.1	.0	.0	.0	.0	.0	2.1	1.3	E
ESE	6	3.7	.0	.0	.0	.0	.0	3.7	1.2	ESE
SE	7	6.3	.5	.0	.0	.0	.0	6.9	1.1	SE
SSE	8	8.5	.0	.0	.0	.0	.0	8.5	.9	SSE
S	9	11.1	1.1	.0	.0	.0	.0	12.2	1.1	S
SSW	10	9.0	.0	.0	.0	.0	.0	9.0	1.0	SSW
SW	11	17.5	1.1	.0	.0	.0	.0	18.5	1.2	SW
WSW	12	15.3	.5	.0	.0	.0	.0	15.9	1.1	WSW
W	13	6.9	1.1	.0	.0	.0	.0	7.9	1.3	W
WNW	14	3.7	.5	.0	.0	.0	.0	4.2	1.2	WNW
NW	15	4.8	.0	.0	.0	.0	.0	4.8	1.2	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		1.6							1.6	
TOTAL		95.2	4.8	.0	.0	.0	.0	100.0	1.1	

99.4% DATA RECOVERED
26.4% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

5/ 1/1994 - 5/31/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	6.9	.0	.0	.0	.0	.0	6.9	1.1	N
NNE	2	4.8	.0	.0	.0	.0	.0	4.8	1.2	NNE
NE	3	4.8	.0	.0	.0	.0	.0	4.8	1.4	NE
ENE	4	2.7	1.6	.0	.0	.0	.0	4.3	1.6	ENE
E	5	2.1	.0	.0	.0	.0	.0	2.1	.7	E
ESE	6	3.2	1.6	.0	.0	.0	.0	4.8	1.5	ESE
SE	7	2.1	.0	.0	.0	.0	.0	2.1	1.1	SE
SSE	8	2.7	1.1	.0	.0	.0	.0	3.7	1.1	SSE
S	9	4.3	.5	.0	.0	.0	.0	4.8	1.0	S
SSW	10	4.8	.5	.0	.0	.0	.0	5.3	1.2	SSW
SW	11	13.3	.0	.0	.0	.0	.0	13.3	1.1	SW
WSW	12	6.9	.5	.0	.0	.0	.0	7.4	1.2	WSW
W	13	7.4	.0	.0	.0	.0	.0	7.4	1.1	W
WNW	14	8.5	1.1	.0	.0	.0	.0	9.6	1.1	WNW
NW	15	8.5	.0	.0	.0	.0	.0	8.5	1.2	NW
NNW	16	5.9	1.1	.0	.0	.0	.0	6.9	1.3	NNW
CALM		3.2							3.2	
TOTAL		92.0	8.0	.0	.0	.0	.0	100.0	1.1	

96.9% DATA RECOVERED
26.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 6/ 1/1994 - 6/30/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.4	.0	.0	.0	.0	.0	5.4	1.1	N
NNE	2	5.9	1.6	.0	.0	.0	.0	7.5	1.4	NNE
NE	3	5.9	.5	.0	.0	.0	.0	6.5	1.3	NE
ENE	4	5.9	.0	.0	.0	.0	.0	5.9	1.2	ENE
E	5	3.8	.5	.0	.0	.0	.0	4.3	1.2	E
ESE	6	.5	.5	.0	.0	.0	.0	1.1	1.8	ESE
SE	7	1.6	.0	.0	.0	.0	.0	1.6	1.2	SE
SSE	8	2.2	.0	.0	.0	.0	.0	2.2	1.1	SSE
S	9	4.8	.5	.0	.0	.0	.0	5.4	1.1	S
SSW	10	8.1	.5	.0	.0	.0	.0	8.6	1.2	SSW
SW	11	14.5	1.1	.0	.0	.0	.0	15.6	1.1	SW
WSW	12	6.5	.5	.0	.0	.0	.0	7.0	1.3	WSW
W	13	11.3	.0	.0	.0	.0	.0	11.3	1.0	W
WNW	14	9.7	.5	.0	.0	.0	.0	10.2	1.0	WNW
NW	15	1.6	.5	.0	.0	.0	.0	2.2	1.3	NW
NNW	16	4.8	.0	.0	.0	.0	.0	4.8	1.1	NNW
CALM		.5							.5	
TOTAL		93.0	7.0	.0	.0	.0	.0	100.0	1.1	

100.0% DATA RECOVERED
25.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

7/ 1/1994 - 7/31/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.3	.0	.0	.0	.0	.0	5.3	1.0	N
NNE	2	7.3	.0	.0	.0	.0	.0	7.3	1.2	NNE
NE	3	8.7	.0	.0	.0	.0	.0	8.7	1.3	NE
ENE	4	7.3	.5	.0	.0	.0	.0	7.8	1.3	ENE
E	5	6.3	.0	.0	.0	.0	.0	6.3	1.1	E
ESE	6	1.5	.0	.0	.0	.0	.0	1.5	1.5	ESE
SE	7	2.9	.0	.0	.0	.0	.0	2.9	1.0	SE
SSE	8	1.9	.0	.0	.0	.0	.0	1.9	1.3	SSE
S	9	2.4	.5	.0	.0	.0	.0	2.9	1.3	S
SSW	10	8.3	1.0	.0	.0	.0	.0	9.2	1.2	SSW
SW	11	9.7	.5	.0	.0	.0	.0	10.2	1.0	SW
WSW	12	4.4	.5	.0	.0	.0	.0	4.9	1.1	WSW
W	13	9.2	.0	.0	.0	.0	.0	9.2	1.1	W
WNW	14	7.8	.5	.0	.0	.0	.0	8.3	1.1	WNW
NW	15	7.3	.5	.0	.0	.0	.0	7.8	1.1	NW
NNW	16	3.9	.0	.0	.0	.0	.0	3.9	.9	NNW
CALM		1.9							1.9	
TOTAL		96.1	3.9	.0	.0	.0	.0	100.0	1.1	

100.0% DATA RECOVERED
27.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	
1	WS <= .5
2	.5< WS <= 1.8
3	1.8< WS <= 3.3
4	3.3< WS <= 5.4
5	5.4< WS <= 8.5
6	8.5< WS <=10.8
	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 8/ 1/1994 - 8/31/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.7	.4	.0	.0	.0	.0	4.1	1.3	N
NNE	2	11.4	.8	.0	.0	.0	.0	12.2	1.2	NNE
NE	3	5.7	.0	.0	.0	.0	.0	5.7	1.2	NE
ENE	4	3.3	.4	.0	.0	.0	.0	3.7	1.3	ENE
E	5	4.5	.4	.0	.0	.0	.0	4.9	1.2	E
ESE	6	1.2	.0	.0	.0	.0	.0	1.2	1.4	ESE
SE	7	1.6	.8	.0	.0	.0	.0	2.4	1.6	SE
SSE	8	2.4	.0	.0	.0	.0	.0	2.4	1.0	SSE
S	9	2.0	.4	.0	.0	.0	.0	2.4	1.1	S
SSW	10	6.5	.4	.0	.0	.0	.0	6.9	1.1	SSW
SW	11	9.4	.4	.0	.0	.0	.0	9.8	1.0	SW
WSW	12	10.2	.0	.0	.0	.0	.0	10.2	1.1	WSW
W	13	6.9	.0	.0	.0	.0	.0	6.9	1.1	W
WNW	14	6.5	.0	.0	.0	.0	.0	6.5	1.1	WNW
NW	15	7.3	1.2	.0	.0	.0	.0	8.6	1.2	NW
NNW	16	8.2	.8	.0	.0	.0	.0	9.0	1.3	NNW
CALM		2.9							2.9	
TOTAL		93.9	6.1	.0	.0	.0	.0	100.0	1.1	

100.0% DATA RECOVERED
32.9% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

9/ 1/1994 - 9/30/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	6.9	.5	.0	.0	.0	.0	7.4	1.1	N
NNE	2	10.1	1.1	.0	.0	.0	.0	11.2	1.1	NNE
NE	3	5.9	1.1	.0	.0	.0	.0	6.9	1.3	NE
ENE	4	4.3	.5	.0	.0	.0	.0	4.8	1.1	ENE
E	5	2.1	.0	.0	.0	.0	.0	2.1	.9	E
ESE	6	2.1	.0	.0	.0	.0	.0	2.1	1.0	ESE
SE	7	2.1	.0	.0	.0	.0	.0	2.1	1.2	SE
SSE	8	3.7	.0	.0	.0	.0	.0	3.7	1.0	SSE
S	9	8.0	.0	.0	.0	.0	.0	8.0	1.0	S
SSW	10	10.1	.5	.0	.0	.0	.0	10.6	1.1	SSW
SW	11	10.1	.5	.0	.0	.0	.0	10.6	1.1	SW
WSW	12	8.5	.5	.0	.0	.0	.0	9.0	1.0	WSW
W	13	6.4	.5	.0	.0	.0	.0	6.9	1.1	W
WNW	14	4.3	1.1	.0	.0	.0	.0	5.3	1.3	WNW
NW	15	3.2	.0	.0	.0	.0	.0	3.2	1.0	NW
NNW	16	3.7	.5	.0	.0	.0	.0	4.3	1.3	NNW
CALM		1.6							1.6	
TOTAL		93.1	6.9	.0	.0	.0	.0	100.0	1.1	

99.7% DATA RECOVERED
26.2% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 10/ 1/1994 - 10/31/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.4	1.3	.0	.0	.0	.0	5.7	1.3	N
NNE	2	2.5	.6	.0	.0	.0	.0	3.2	1.2	NNE
NE	3	5.7	.6	.0	.0	.0	.0	6.3	1.2	NE
ENE	4	6.3	1.3	.0	.0	.0	.0	7.6	1.4	ENE
E	5	3.2	.0	.0	.0	.0	.0	3.2	.8	E
ESE	6	3.2	.6	.0	.0	.0	.0	3.8	1.2	ESE
SE	7	1.3	.0	.0	.0	.0	.0	1.3	.9	SE
SSE	8	1.9	.0	.0	.0	.0	.0	1.9	.8	SSE
S	9	4.4	.0	.0	.0	.0	.0	4.4	1.0	S
SSW	10	8.2	1.3	.0	.0	.0	.0	9.5	1.3	SSW
SW	11	16.5	.6	.0	.0	.0	.0	17.1	1.1	SW
WSW	12	8.9	.6	.0	.0	.0	.0	9.5	1.0	WSW
W	13	6.3	.0	.0	.0	.0	.0	6.3	1.2	W
WNW	14	3.8	1.3	.0	.0	.0	.0	5.1	1.3	WNW
NW	15	5.1	.0	.0	.0	.0	.0	5.1	.9	NW
NNW	16	7.0	.6	.0	.0	.0	.0	7.6	1.2	NNW
CALM		2.5							2.5	
TOTAL		91.1	8.9	.0	.0	.0	.0	100.0	1.1	

100.0% DATA RECOVERED
21.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

11/ 1/1994 - 11/30/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	6.5	.8	.0	.0	.0	.0	7.3	1.3	N
NNE	2	4.2	1.1	.0	.0	.0	.0	5.4	1.3	NNE
NE	3	3.1	.0	.0	.0	.0	.0	3.1	1.1	NE
ENE	4	3.4	.0	.0	.0	.0	.0	3.4	.9	ENE
E	5	4.6	.4	.0	.0	.0	.0	5.0	1.1	E
ESE	6	2.7	.0	.0	.0	.0	.0	2.7	.9	ESE
SE	7	1.1	1.1	.0	.0	.0	.0	2.3	1.5	SE
SSE	8	3.1	.0	.0	.0	.0	.0	3.1	.8	SSE
S	9	5.4	.0	.0	.0	.0	.0	5.4	1.0	S
SSW	10	8.8	1.1	.0	.0	.0	.0	10.0	1.2	SSW
SW	11	13.0	.8	.0	.0	.0	.0	13.8	1.1	SW
WSW	12	8.4	.8	.0	.0	.0	.0	9.2	1.2	WSW
W	13	4.2	.4	.0	.0	.0	.0	4.6	1.3	W
WNW	14	6.1	.8	.0	.0	.0	.0	6.9	1.2	WNW
NW	15	8.8	.8	.0	.0	.0	.0	9.6	1.2	NW
NNW	16	7.3	.4	.0	.0	.0	.0	7.7	1.2	NNW
CALM		.8							.8	
TOTAL		91.6	8.4	.0	.0	.0	.0	100.0	1.1	

100.0% DATA RECOVERED
36.3% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours 12/ 1/1994 - 12/31/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.8	.0	.0	.0	.0	.0	5.8	1.0	N
NNE	2	4.8	1.0	.0	.0	.0	.0	5.8	1.2	NNE
NE	3	3.4	.5	.0	.0	.0	.0	3.9	1.2	NE
ENE	4	2.4	.5	.0	.0	.0	.0	2.9	1.1	ENE
E	5	2.4	.5	.0	.0	.0	.0	2.9	1.1	E
ESE	6	1.4	.0	.0	.0	.0	.0	1.4	1.0	ESE
SE	7	3.4	.5	.0	.0	.0	.0	3.9	1.1	SE
SSE	8	2.9	.0	.0	.0	.0	.0	2.9	.8	SSE
S	9	6.3	.0	.0	.0	.0	.0	6.3	.9	S
SSW	10	9.2	.5	.0	.0	.0	.0	9.7	1.2	SSW
SW	11	11.6	1.0	.0	.0	.0	.0	12.6	1.2	SW
WSW	12	10.1	.0	.0	.0	.0	.0	10.1	1.1	WSW
W	13	5.8	.5	.0	.0	.0	.0	6.3	1.2	W
WNW	14	7.7	1.0	.0	.0	.0	.0	8.7	1.3	WNW
NW	15	7.7	.5	.0	.0	.0	.0	8.2	1.0	NW
NNW	16	7.2	1.0	.0	.0	.0	.0	8.2	1.2	NNW
CALM		.5							.5	
TOTAL		92.8	7.2	.0	.0	.0	.0	100.0	1.1	

65.1% DATA RECOVERED
42.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

1/ 1/1994 - 1/31/1994
0 - 2300 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.2	.3	.3	.0	.0	.9	5.0	N
NNE	2	.0	.7	2.6	.9	.3	.0	4.5	5.1	NNE
NE	3	1.0	1.0	1.4	.3	.0	.0	3.8	3.1	NE
ENE	4	3.6	1.0	.3	.0	.0	.0	5.0	1.7	ENE
E	5	3.4	1.0	.5	.0	.0	.0	5.0	1.5	E
ESE	6	5.9	.7	.3	.0	.2	.0	7.1	1.4	ESE
SE	7	3.8	.7	.2	.0	.0	.0	4.7	1.4	SE
SSE	8	5.9	.5	.0	.0	.0	.0	6.4	1.0	SSE
S	9	9.8	.7	1.2	.0	.0	.0	11.7	1.4	S
SSW	10	8.1	1.7	.5	.2	.0	.0	10.5	1.5	SSW
SW	11	9.3	5.2	.3	.3	.0	.0	15.2	1.6	SW
WSW	12	7.6	.7	.5	.0	.0	.0	8.8	1.4	WSW
W	13	3.3	.3	.2	.0	.0	.0	3.8	1.5	W
WNW	14	1.0	.3	.0	.0	.0	.0	1.4	1.3	WNW
NW	15	1.4	.2	.2	.0	.0	.0	1.7	1.7	NW
NNW	16	.2	.2	.2	.0	.2	.3	1.0	6.6	NNW
CALM		8.6							8.6	
TOTAL		72.9	15.2	8.8	2.1	.7	.3	100.0	1.6	

78.0% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 2/ 1/1994 - 2/28/1994
0 - 2300 (MST)

W I N D S P E E D C L A S S

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.3	1.0	1.9	.3	.2	.0	6.8	2.9	N
NNE	2	3.3	1.0	3.0	1.7	.3	.0	9.4	3.6	NNE
NE	3	3.8	1.4	.9	.3	.0	.0	6.4	2.2	NE
ENE	4	3.7	1.6	.7	.0	.0	.0	5.9	1.7	ENE
E	5	3.5	.5	.3	.3	.0	.0	4.7	1.9	E
ESE	6	1.7	.7	.0	.0	.0	.0	2.4	1.3	ESE
SE	7	1.7	1.4	.2	.0	.0	.0	3.3	1.8	SE
SSE	8	2.3	.5	.0	.0	.0	.0	2.8	1.2	SSE
S	9	3.7	.9	.7	1.0	.3	.0	6.6	2.9	S
SSW	10	6.4	1.7	1.4	1.2	.0	.0	10.8	2.4	SSW
SW	11	6.4	1.9	1.7	.0	.0	.0	10.1	1.8	SW
WSW	12	4.7	1.6	.5	.3	.0	.0	7.1	1.9	WSW
W	13	3.1	.7	.0	.0	.0	.0	3.8	1.4	W
WNW	14	3.5	1.6	.2	.7	.0	.0	5.9	2.2	WNW
NW	15	3.7	.9	.0	.2	.7	.0	5.4	2.7	NW
NNW	16	2.8	.2	.3	.2	.3	.0	3.8	2.2	NNW
CALM		4.5							4.5	
TOTAL		62.2	17.6	11.8	6.4	1.9	.0	100.0	2.2	

85.4% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 3/ 1/1994 - 3/31/1994
0 - 2300 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.3	.5	.5	.1	.3	.5	4.3	3.9	N
NNE	2	2.6	.9	1.3	3.1	.7	.1	8.7	4.5	NNE
NE	3	2.6	2.4	2.2	.7	.1	.0	7.9	3.1	NE
ENE	4	1.7	1.5	.7	.1	.0	.0	4.0	2.3	ENE
E	5	2.4	1.2	.8	.0	.0	.0	4.4	2.0	E
ESE	6	2.0	.9	.0	.0	.0	.0	3.0	1.5	ESE
SE	7	2.3	1.2	.0	.0	.0	.0	3.5	1.7	SE
SSE	8	1.6	.4	.0	.0	.0	.0	2.0	1.4	SSE
S	9	2.3	1.1	.1	.0	.0	.0	3.5	1.6	S
SSW	10	5.1	1.2	1.2	2.8	1.3	1.2	12.9	4.9	SSW
SW	11	5.9	3.2	2.7	4.3	1.5	.1	17.7	4.2	SW
WSW	12	5.9	1.9	.4	.0	.0	.0	8.2	1.6	WSW
W	13	3.1	1.2	.0	.0	.0	.0	4.3	1.5	W
WNW	14	3.2	.3	.1	.0	.0	.0	3.6	1.3	WNW
NW	15	2.0	1.2	.3	.3	.0	.0	3.8	2.1	NW
NNW	16	1.6	.9	.7	.0	.0	.0	3.2	2.2	NNW
CALM		4.8							4.8	
TOTAL		51.5	20.2	11.0	11.4	3.9	2.0	100.0	3.0	

100.0% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 4/ 1/1994 - 4/30/1994
0 - 2300 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.1	.4	.0	.0	.6	6.8	N
NNE	2	.3	.3	1.0	.6	.7	.0	2.8	5.9	NNE
NE	3	1.0	1.0	1.4	.0	.0	.0	3.3	2.8	NE
ENE	4	.4	.6	.1	.0	.0	.0	1.1	2.1	ENE
E	5	2.2	.8	.6	.7	.0	.0	4.3	2.7	E
ESE	6	2.6	1.5	.6	.1	.0	.0	4.9	2.0	ESE
SE	7	3.2	2.4	.4	.1	.0	.0	6.1	1.9	SE
SSE	8	3.3	1.1	.1	.3	.0	.0	4.9	1.7	SSE
S	9	5.8	2.4	.6	.3	.1	.0	9.2	2.0	S
SSW	10	4.7	3.6	2.8	1.0	1.4	1.9	15.4	4.6	SSW
SW	11	6.0	3.2	4.0	5.3	1.4	1.5	21.4	4.6	SW
WSW	12	5.1	2.5	2.4	1.4	.0	.0	11.4	2.7	WSW
W	13	3.1	1.0	1.0	.7	.0	.0	5.7	2.6	W
WNW	14	1.1	1.0	.1	.1	.0	.0	2.4	2.2	WNW
NW	15	.6	1.0	.0	.3	.1	.1	2.1	3.7	NW
NNW	16	.0	.8	.3	.3	.3	.3	1.9	6.0	NNW
CALM		2.5							2.5	
TOTAL		42.0	23.1	15.4	11.5	4.0	3.9	100.0	3.3	

99.9% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

5/ 1/1994 - 5/31/1994
0 - 2300 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.4	.6	.7	.0	.0	.0	3.6	2.0	N
NNE	2	1.5	1.7	.4	.1	.0	.0	3.7	2.0	NNE
NE	3	2.4	1.5	.0	.1	.0	.0	4.0	1.7	NE
ENE	4	.8	1.5	.1	.1	.0	.0	2.6	2.1	ENE
E	5	1.5	.4	.3	.3	.0	.0	2.5	2.3	E
ESE	6	1.4	1.5	.6	.0	.0	.0	3.5	2.0	ESE
SE	7	2.2	1.1	.8	.8	.0	.0	5.0	2.8	SE
SSE	8	.8	1.2	1.0	.4	.0	.0	3.5	3.0	SSE
S	9	2.1	1.4	1.2	.3	.1	.1	5.3	3.0	S
SSW	10	3.1	2.5	2.1	2.2	1.4	1.8	13.0	5.4	SSW
SW	11	4.4	4.2	5.5	5.5	4.2	1.8	25.7	5.4	SW
WSW	12	3.1	1.4	2.5	1.2	.3	.0	8.5	3.3	WSW
W	13	2.8	1.0	.4	.3	.0	.0	4.4	2.1	W
WNW	14	2.9	1.1	.4	.0	.0	.0	4.4	1.7	WNW
NW	15	2.9	1.1	.6	.0	.0	.0	4.6	1.8	NW
NNW	16	1.7	1.4	.3	.3	.0	.0	3.6	2.3	NNW
CALM		2.1							2.1	
TOTAL		38.0	23.6	16.9	11.8	6.0	3.7	100.0	3.5	

96.9% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 6/ 1/1994 - 6/30/1994
0 - 2300 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.8	.6	.0	.0	.0	.0	2.4	1.5	N
NNE	2	1.7	.7	.1	.3	.0	.0	2.8	2.2	NNE
NE	3	3.1	2.4	.1	.0	.0	.0	5.6	1.5	NE
ENE	4	2.9	.6	.0	.0	.0	.0	3.5	1.3	ENE
E	5	1.9	.8	.0	.0	.0	.0	2.8	1.4	E
ESE	6	1.5	1.0	.0	.0	.0	.0	2.5	1.6	ESE
SE	7	.7	.7	.1	.0	.0	.0	1.5	2.0	SE
SSE	8	1.4	.4	.0	.0	.0	.0	1.8	1.3	SSE
S	9	.8	.8	.4	.0	.0	.0	2.1	2.2	S
SSW	10	2.4	1.4	1.5	1.8	1.7	.4	9.2	5.1	SSW
SW	11	4.7	4.4	4.4	14.3	6.9	2.4	37.2	6.2	SW
WSW	12	4.2	1.9	2.9	3.8	1.3	.1	14.2	4.2	WSW
W	13	1.8	.3	.4	.0	.0	.0	2.5	1.7	W
WNW	14	1.5	1.1	.6	.0	.0	.0	3.2	2.2	WNW
NW	15	2.8	.3	.1	.0	.0	.0	3.2	1.4	NW
NNW	16	1.7	.3	.0	.0	.0	.0	1.9	1.3	NNW
CALM		3.8							3.8	
TOTAL		38.6	17.6	10.8	20.1	9.9	2.9	100.0	3.9	

100.0% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

7/ 1/1994 - 7/31/1994
0 - 2300 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.4	.8	.4	.0	.0	.0	3.6	1.8	N
NNE	2	3.0	1.3	.5	.1	.0	.0	5.0	2.0	NNE
NE	3	2.2	3.2	.5	.0	.0	.0	5.9	2.1	NE
ENE	4	2.4	2.2	.1	.0	.0	.0	4.7	1.8	ENE
E	5	2.6	.5	.0	.1	.0	.0	3.2	1.6	E
ESE	6	1.6	.3	.1	.1	.0	.0	2.2	1.9	ESE
SE	7	1.2	1.2	.8	.3	.0	.0	3.5	2.8	SE
SSE	8	.8	.4	.3	.0	.0	.0	1.5	2.0	SSE
S	9	2.4	1.2	.3	.1	.0	.0	4.0	2.0	S
SSW	10	2.7	1.7	2.7	1.7	1.5	.0	10.3	4.3	SSW
SW	11	3.9	3.8	6.3	14.7	2.3	.3	31.2	5.5	SW
WSW	12	4.0	1.5	1.5	.7	.0	.0	7.7	2.5	WSW
W	13	2.7	.9	.1	.0	.0	.0	3.8	1.6	W
WNW	14	2.4	.5	.0	.0	.0	.0	3.0	1.3	WNW
NW	15	1.6	.9	.1	.0	.0	.0	2.7	1.7	NW
NNW	16	1.7	.5	.1	.0	.0	.0	2.4	1.5	NNW
CALM		5.4							5.4	
TOTAL		43.0	21.1	14.0	17.9	3.8	.3	100.0	3.2	

100.0% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 8/ 1/1994 - 8/31/1994
0 - 2300 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.6	1.1	.3	.0	.0	.0	3.0	1.9	N
NNE	2	2.3	1.7	.7	.1	.0	.0	4.8	2.2	NNE
NE	3	3.2	2.6	.0	.0	.0	.0	5.8	1.7	NE
ENE	4	2.3	1.6	.0	.0	.0	.0	3.9	1.7	ENE
E	5	2.0	.8	.4	.0	.0	.0	3.2	1.8	E
ESE	6	1.5	.3	.3	.1	.0	.0	2.2	2.0	ESE
SE	7	1.7	.8	1.6	.7	.0	.0	4.8	3.1	SE
SSE	8	1.2	.4	.9	.1	.0	.0	2.7	2.7	SSE
S	9	1.7	1.6	.5	.8	.0	.0	4.7	3.0	S
SSW	10	1.9	1.7	2.3	3.0	1.3	.0	10.2	4.8	SSW
SW	11	3.4	2.0	4.3	10.3	4.3	.5	24.9	6.0	SW
WSW	12	5.0	1.6	1.6	1.6	.0	.0	9.8	2.7	WSW
W	13	3.6	.5	.1	.0	.0	.0	4.3	1.4	W
WNW	14	1.5	.9	.1	.0	.0	.0	2.6	1.7	WNW
NW	15	1.9	1.2	.3	.1	.0	.0	3.5	2.1	NW
NNW	16	3.5	1.1	.3	.0	.0	.0	4.8	1.7	NNW
CALM		4.8							4.8	
TOTAL		43.1	20.0	13.7	16.9	5.6	.5	100.0	3.3	

100.0% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

9/ 1/1994 - 9/30/1994
0 - 2300 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.6	.4	.1	.1	.3	.0	4.6	2.0	N
NNE	2	2.8	1.0	.4	1.3	.0	.0	5.5	2.8	NNE
NE	3	3.6	1.4	.4	.0	.0	.0	5.5	1.6	NE
ENE	4	2.8	.6	.0	.0	.0	.0	3.4	1.3	ENE
E	5	1.3	.6	.0	.0	.0	.0	1.8	1.5	E
ESE	6	1.5	1.0	.1	.0	.0	.0	2.7	1.6	ESE
SE	7	1.3	.6	.0	.0	.0	.0	1.8	1.5	SE
SSE	8	1.0	.4	.1	.0	.0	.0	1.5	1.8	SSE
S	9	1.5	.7	.3	.1	.0	.0	2.7	2.0	S
SSW	10	2.7	2.1	1.1	3.8	3.2	1.5	14.4	6.2	SSW
SW	11	3.6	3.2	3.2	6.3	1.7	.6	18.6	4.9	SW
WSW	12	1.8	1.3	2.2	1.5	.0	.0	6.9	3.6	WSW
W	13	2.4	.7	.1	.0	.0	.0	3.2	1.5	W
WNW	14	2.9	.6	.3	.0	.0	.0	3.8	1.4	WNW
NW	15	.8	.8	.0	.1	.0	.0	1.8	2.0	NW
NNW	16	1.4	.6	.3	.1	.3	.0	2.7	2.6	NNW
CALM		19.2							19.2	
TOTAL		54.3	15.8	8.8	13.4	5.5	2.1	100.0	2.8	

99.2% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 10/ 1/1994 - 10/31/1994
0 - 2300 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.2	.8	.7	.7	.0	.0	4.4	2.8	N
NNE	2	2.6	1.9	2.2	1.4	.1	.0	8.2	3.4	NNE
NE	3	1.4	.8	1.4	.3	.0	.0	3.8	2.9	NE
ENE	4	1.8	1.5	.0	.0	.0	.0	3.3	1.6	ENE
E	5	1.4	.8	.0	.0	.0	.0	2.2	1.7	E
ESE	6	1.2	.4	.0	.0	.0	.0	1.6	1.3	ESE
SE	7	1.6	.3	.0	.0	.0	.0	1.9	1.2	SE
SSE	8	3.0	.3	.0	.0	.0	.0	3.3	1.1	SSE
S	9	2.6	.5	.1	.0	.0	.0	3.3	1.4	S
SSW	10	3.4	2.0	.8	1.2	.4	.1	8.0	3.2	SSW
SW	11	3.1	4.2	3.5	3.3	1.4	.3	15.8	4.2	SW
WSW	12	3.5	1.2	1.5	.8	.1	.0	7.2	2.7	WSW
W	13	2.6	.4	.1	.1	.0	.0	3.3	1.5	W
WNW	14	2.2	.1	.3	.0	.0	.0	2.6	1.4	WNW
NW	15	1.8	.7	.1	.0	.0	.0	2.6	1.5	NW
NNW	16	2.6	.4	.3	.1	.0	.0	3.4	1.6	NNW
CALM		25.1							25.1	
TOTAL		62.1	16.5	11.1	7.9	2.0	.4	100.0	2.0	

98.5% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

11/ 1/1994 - 11/30/1994
0 - 2300 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.2	1.0	.8	.6	.0	.0	5.6	2.3	N
NNE	2	3.1	1.4	1.8	1.8	.1	.0	8.2	3.4	NNE
NE	3	2.6	1.8	1.4	.3	.0	.0	6.1	2.6	NE
ENE	4	2.4	.6	1.0	.1	.0	.0	4.0	2.1	ENE
E	5	4.3	1.1	.4	.0	.0	.0	5.8	1.6	E
ESE	6	2.9	.1	.3	.0	.0	.0	3.3	1.4	ESE
SE	7	2.5	1.1	.4	.0	.0	.0	4.0	1.7	SE
SSE	8	2.1	.4	.1	.0	.0	.0	2.6	1.4	SSE
S	9	1.7	.7	.3	.0	.0	.0	2.6	1.7	S
SSW	10	2.9	2.1	.6	.8	.6	1.3	8.2	4.6	SSW
SW	11	5.4	3.9	1.3	3.2	.8	.7	15.3	3.9	SW
WSW	12	4.6	1.0	1.4	.7	.1	.0	7.8	2.5	WSW
W	13	2.8	.7	.0	.1	.0	.0	3.6	1.6	W
WNW	14	3.5	1.0	.1	.4	.0	.0	5.0	2.0	WNW
NW	15	3.3	1.1	.4	.3	.3	.0	5.4	2.3	NW
NNW	16	2.6	1.3	.8	.7	.1	.0	5.6	2.8	NNW
CALM		6.5							6.5	
TOTAL		56.5	19.2	11.1	9.1	2.1	1.9	100.0	2.5	

99.7% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 12/ 1/1994 - 12/31/1994
0 - 2300 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.5	1.2	1.2	.0	.0	.0	6.0	1.9	N
NNE	2	3.9	1.4	1.7	2.1	.0	.0	9.1	3.2	NNE
NE	3	2.1	1.4	3.3	1.2	.0	.0	8.1	3.5	NE
ENE	4	5.2	1.9	.2	.2	.0	.0	7.4	1.6	ENE
E	5	3.7	.4	.6	.0	.0	.0	4.8	1.6	E
ESE	6	1.7	.8	.0	.0	.0	.0	2.5	1.6	ESE
SE	7	2.1	1.0	1.4	.0	.0	.0	4.5	2.4	SE
SSE	8	2.9	.0	.0	.0	.0	.0	2.9	1.0	SSE
S	9	3.3	.0	.0	.2	.0	.0	3.5	1.4	S
SSW	10	4.8	1.4	.0	.2	.0	.0	6.4	1.6	SSW
SW	11	6.8	2.3	.6	.2	.0	.0	9.9	1.8	SW
WSW	12	6.4	1.0	.0	.0	.0	.0	7.4	1.3	WSW
W	13	5.0	1.0	.0	.0	.0	.0	6.0	1.4	W
WNW	14	1.4	1.4	.6	.0	.0	.0	3.5	2.0	WNW
NW	15	3.9	1.7	.6	.0	.0	.0	6.2	1.8	NW
NNW	16	3.3	1.7	.8	.0	.0	.0	5.8	1.8	NNW
CALM		6.0							6.0	
TOTAL		65.9	18.8	11.2	4.1	.0	.0	100.0	1.9	

65.1% DATA RECOVERED
100.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition 1/ 1/1994 - 1/31/1994
600 - 1000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	.8	.8	.0	.0	1.7	4.9	NNE
NE	3	2.5	.8	.8	.8	.0	.0	5.0	2.8	NE
ENE	4	4.2	.8	.0	.0	.0	.0	5.0	1.4	ENE
E	5	9.2	.0	.0	.0	.0	.0	9.2	.9	E
ESE	6	8.3	.0	.0	.0	.0	.0	8.3	1.0	ESE
SE	7	2.5	.8	.0	.0	.0	.0	3.3	1.4	SE
SSE	8	8.3	.0	.0	.0	.0	.0	8.3	.8	SSE
S	9	6.7	.0	.0	.0	.0	.0	6.7	1.1	S
SSW	10	8.3	.0	.0	.0	.0	.0	8.3	.9	SSW
SW	11	9.2	5.0	.0	.0	.0	.0	14.2	1.3	SW
WSW	12	9.2	.8	.0	.0	.0	.0	10.0	1.1	WSW
W	13	1.7	.8	.0	.0	.0	.0	2.5	1.4	W
WNW	14	1.7	.0	.0	.0	.0	.0	1.7	.6	WNW
NW	15	1.7	.0	.0	.0	.0	.0	1.7	1.2	NW
NNW	16	.0	.0	.8	.0	.0	.0	.8	3.4	NNW
CALM		13.3							13.3	
TOTAL		86.7	9.2	2.5	1.7	.0	.0	100.0	1.1	

78.0% DATA RECOVERED
20.7% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition 2/ 1/1994 - 2/28/1994
600 - 1000 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.7	.0	.0	.0	.0	.0	2.7	.9	N
NNE	2	1.8	.0	1.8	2.7	.0	.0	6.3	4.1	NNE
NE	3	6.3	1.8	.9	.0	.0	.0	9.0	1.7	NE
ENE	4	9.0	.0	.0	.0	.0	.0	9.0	1.1	ENE
E	5	5.4	.9	.0	.0	.0	.0	6.3	1.2	E
ESE	6	4.5	.0	.0	.0	.0	.0	4.5	.9	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	3.6	.0	.0	.0	.0	.0	3.6	.9	S
SSW	10	11.7	.0	1.8	2.7	.0	.0	16.2	2.3	SSW
SW	11	6.3	.9	.0	.0	.0	.0	7.2	1.0	SW
WSW	12	2.7	1.8	.0	.0	.0	.0	4.5	1.7	WSW
W	13	3.6	.0	.0	.0	.0	.0	3.6	1.1	W
WNW	14	5.4	.0	.0	.0	.0	.0	5.4	1.1	WNW
NW	15	6.3	.9	.0	.0	1.8	.0	9.0	2.7	NW
NNW	16	3.6	.0	.9	.0	.0	.0	4.5	1.4	NNW
CALM		8.1							8.1	
TOTAL		81.1	6.3	5.4	5.4	1.8	.0	100.0	1.6	

85.4% DATA RECOVERED
19.3% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition 3/ 1/1994 - 3/31/1994
600 - 1000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.9	.6	.6	.0	.0	.0	3.2	2.0	N
NNE	2	1.9	.6	1.3	3.9	.0	.0	7.7	4.4	NNE
NE	3	7.1	2.6	2.6	.0	.0	.0	12.3	2.1	NE
ENE	4	2.6	.6	.6	.0	.0	.0	3.9	1.8	ENE
E	5	5.2	.6	1.9	.0	.0	.0	7.7	1.8	E
ESE	6	2.6	.0	.0	.0	.0	.0	2.6	.8	ESE
SE	7	3.2	1.3	.0	.0	.0	.0	4.5	1.5	SE
SSE	8	1.9	.0	.0	.0	.0	.0	1.9	1.5	SSE
S	9	3.2	1.3	.0	.0	.0	.0	4.5	1.5	S
SSW	10	5.8	.6	.0	3.2	3.2	1.9	14.8	6.0	SSW
SW	11	3.9	2.6	.0	1.9	1.3	.0	9.7	4.1	SW
WSW	12	3.2	1.3	.0	.0	.0	.0	4.5	1.2	WSW
W	13	1.9	.0	.0	.0	.0	.0	1.9	1.5	W
WNW	14	2.6	.0	.0	.0	.0	.0	2.6	1.2	WNW
NW	15	1.3	.0	.0	.0	.0	.0	1.3	1.1	NW
NNW	16	.0	.6	.0	.0	.0	.0	.6	2.3	NNW
CALM		16.1							16.1	
TOTAL		64.5	12.9	7.1	9.0	4.5	1.9	100.0	2.5	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition 4/ 1/1994 - 4/30/1994
600 - 1000 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	.7	.7	.0	.0	1.3	5.2	NNE
NE	3	1.3	.0	.7	.0	.0	.0	2.0	1.9	NE
ENE	4	1.3	.0	.0	.0	.0	.0	1.3	1.2	ENE
E	5	5.4	2.0	.0	.0	.0	.0	7.4	1.5	E
ESE	6	4.7	.0	.0	.0	.0	.0	4.7	.9	ESE
SE	7	5.4	1.3	1.3	.0	.0	.0	8.1	1.7	SE
SSE	8	6.7	.0	.7	.7	.0	.0	8.1	1.6	SSE
S	9	7.4	.7	.0	.7	.0	.0	8.7	1.4	S
SSW	10	8.1	2.0	2.0	.7	2.0	2.0	16.8	4.0	SSW
SW	11	6.7	2.7	2.7	.0	3.4	2.7	18.1	4.9	SW
WSW	12	2.7	1.3	.0	.0	.0	.0	4.0	1.6	WSW
W	13	4.7	.7	.7	1.3	.0	.0	7.4	2.4	W
WNW	14	.7	.7	.0	.0	.0	.0	1.3	1.9	WNW
NW	15	.7	.0	.0	.7	.0	.0	1.3	3.3	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		9.4							9.4	
TOTAL		65.1	11.4	8.7	4.7	5.4	4.7	100.0	2.5	

99.9% DATA RECOVERED
20.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition 5/ 1/1994 - 5/31/1994
600 - 1000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.3	.7	.7	.0	.0	.0	6.7	1.5	N
NNE	2	3.3	.0	.7	.0	.0	.0	4.0	1.3	NNE
NE	3	6.7	.0	.0	.0	.0	.0	6.7	.8	NE
ENE	4	2.0	.7	.0	.0	.0	.0	2.7	1.3	ENE
E	5	2.0	.0	.0	.0	.0	.0	2.0	1.3	E
ESE	6	4.0	2.0	.0	.0	.0	.0	6.0	1.4	ESE
SE	7	6.0	.7	.7	.0	.0	.0	7.3	1.3	SE
SSE	8	2.7	.7	.7	.0	.0	.0	4.0	1.5	SSE
S	9	4.0	2.0	.7	.7	.7	.0	8.0	2.8	S
SSW	10	4.0	3.3	.7	.0	1.3	.7	10.0	3.6	SSW
SW	11	6.7	2.7	2.7	2.0	4.0	2.7	20.7	5.3	SW
WSW	12	2.0	.7	.0	.0	.7	.0	3.3	2.6	WSW
W	13	2.0	.0	.0	.0	.0	.0	2.0	.7	W
WNW	14	4.7	.0	.0	.0	.0	.0	4.7	1.0	WNW
NW	15	2.0	1.3	.0	.0	.0	.0	3.3	1.6	NW
NNW	16	.7	.0	.0	.0	.0	.0	.7	1.1	NNW
CALM		8.0							8.0	
TOTAL		66.0	14.7	6.7	2.7	6.7	3.3	100.0	2.4	

96.9% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition 6/ 1/1994 - 6/30/1994
600 - 1000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.7	.0	.0	.0	.0	.0	.7	.5	N
NNE	2	2.0	.0	.7	.7	.0	.0	3.3	2.9	NNE
NE	3	7.3	.0	.7	.0	.0	.0	8.0	1.1	NE
ENE	4	10.7	.7	.0	.0	.0	.0	11.3	1.1	ENE
E	5	5.3	1.3	.0	.0	.0	.0	6.7	1.3	E
ESE	6	4.0	.7	.0	.0	.0	.0	4.7	1.2	ESE
SE	7	2.0	1.3	.0	.0	.0	.0	3.3	1.7	SE
SSE	8	3.3	1.3	.0	.0	.0	.0	4.7	1.2	SSE
S	9	.7	.7	.7	.0	.0	.0	2.0	2.5	S
SSW	10	3.3	2.7	2.0	.7	.0	.0	8.7	2.8	SSW
SW	11	4.0	1.3	3.3	6.0	4.0	2.7	21.3	6.3	SW
WSW	12	2.0	.7	1.3	2.7	.7	.7	8.0	5.2	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.7	.0	.0	.0	.0	.7	2.8	WNW
NW	15	2.0	.0	.0	.0	.0	.0	2.0	1.0	NW
NNW	16	.7	.0	.0	.0	.0	.0	.7	1.1	NNW
CALM		14.0							14.0	
TOTAL		62.0	11.3	8.7	10.0	4.7	3.3	100.0	2.7	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition 7/ 1/1994 - 7/31/1994
600 - 1000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.2	.0	.0	.0	.0	.0	3.2	1.0	N
NNE	2	1.9	.0	1.3	.6	.0	.0	3.9	2.8	NNE
NE	3	3.2	1.3	.0	.0	.0	.0	4.5	1.5	NE
ENE	4	5.8	.6	.0	.0	.0	.0	6.5	1.1	ENE
E	5	7.7	.6	.0	.0	.0	.0	8.4	1.2	E
ESE	6	1.9	.0	.6	.0	.0	.0	2.6	1.8	ESE
SE	7	3.2	.6	1.9	.0	.0	.0	5.8	2.5	SE
SSE	8	1.9	.0	.6	.0	.0	.0	2.6	1.9	SSE
S	9	3.9	2.6	.6	.6	.0	.0	7.7	2.3	S
SSW	10	3.9	1.3	3.2	.0	.0	.0	8.4	2.5	SSW
SW	11	1.9	2.6	4.5	2.6	.6	.0	12.3	4.2	SW
WSW	12	3.9	.0	.0	.6	.0	.0	4.5	1.6	WSW
W	13	3.2	.0	.6	.0	.0	.0	3.9	1.5	W
WNW	14	2.6	.0	.0	.0	.0	.0	2.6	.9	WNW
NW	15	.6	.0	.6	.0	.0	.0	1.3	2.6	NW
NNW	16	.6	.6	.0	.0	.0	.0	1.3	1.3	NNW
CALM		20.6							20.6	
TOTAL		70.3	10.3	14.2	4.5	.6	.0	100.0	1.7	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition 8/ 1/1994 - 8/31/1994
600 - 1000 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.6	.6	.0	.0	.0	.0	1.3	1.4	N
NNE	2	3.2	.6	.6	.0	.0	.0	4.5	1.6	NNE
NE	3	7.7	.0	.0	.0	.0	.0	7.7	1.1	NE
ENE	4	5.2	1.3	.0	.0	.0	.0	6.5	1.3	ENE
E	5	5.8	1.3	.0	.0	.0	.0	7.1	1.3	E
ESE	6	3.9	.6	.0	.0	.0	.0	4.5	1.2	ESE
SE	7	6.5	.6	1.3	1.9	.0	.0	10.3	2.6	SE
SSE	8	1.9	.0	.6	.6	.0	.0	3.2	2.9	SSE
S	9	1.9	1.3	.6	1.3	.0	.0	5.2	3.4	S
SSW	10	3.9	1.3	1.3	.6	.6	.0	7.7	3.1	SSW
SW	11	4.5	.0	3.2	2.6	1.9	.0	12.3	4.7	SW
WSW	12	3.9	1.3	.0	.0	.0	.0	5.2	1.2	WSW
W	13	1.9	.0	.0	.0	.0	.0	1.9	.7	W
WNW	14	1.3	1.3	.0	.0	.0	.0	2.6	1.4	WNW
NW	15	1.9	.0	.6	.0	.0	.0	2.6	1.7	NW
NNW	16	1.9	.0	.0	.0	.0	.0	1.9	.9	NNW
CALM		15.5							15.5	
TOTAL		71.6	10.3	8.4	7.1	2.6	.0	100.0	1.9	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition 9/ 1/1994 - 9/30/1994
600 - 1000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.1	.0	.0	.0	.0	.0	2.1	.7	N
NNE	2	3.4	.0	.7	.0	.0	.0	4.1	1.3	NNE
NE	3	4.8	.0	.0	.0	.0	.0	4.8	1.1	NE
ENE	4	4.1	.7	.0	.0	.0	.0	4.8	1.1	ENE
E	5	2.7	.0	.0	.0	.0	.0	2.7	.8	E
ESE	6	2.1	2.1	.7	.0	.0	.0	4.8	1.8	ESE
SE	7	2.1	.0	.0	.0	.0	.0	2.1	.7	SE
SSE	8	1.4	.0	.0	.0	.0	.0	1.4	1.1	SSE
S	9	2.1	.0	.0	.0	.0	.0	2.1	1.1	S
SSW	10	2.1	1.4	2.7	2.1	2.7	2.1	13.0	6.5	SSW
SW	11	3.4	.0	.7	.7	2.1	.7	7.5	5.5	SW
WSW	12	1.4	.0	.7	.0	.0	.0	2.1	1.6	WSW
W	13	1.4	.0	.0	.0	.0	.0	1.4	.7	W
WNW	14	.7	.7	.0	.0	.0	.0	1.4	1.5	WNW
NW	15	.0	.0	.0	.7	.0	.0	.7	6.3	NW
NNW	16	1.4	.0	.7	.0	.0	.0	2.1	1.9	NNW
CALM		43.2							43.2	
TOTAL		78.1	4.8	6.2	3.4	4.8	2.7	100.0	1.7	

99.2% DATA RECOVERED
20.4% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition 10/ 1/1994 - 10/31/1994
600 - 1000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.7	.0	.7	.7	.0	.0	2.0	3.6	N
NNE	2	2.0	2.0	1.3	2.6	.0	.0	7.9	4.1	NNE
NE	3	2.0	.7	2.0	.0	.0	.0	4.6	2.3	NE
ENE	4	1.3	.7	.0	.0	.0	.0	2.0	1.4	ENE
E	5	1.3	.7	.0	.0	.0	.0	2.0	1.4	E
ESE	6	1.3	.0	.0	.0	.0	.0	1.3	.9	ESE
SE	7	2.6	.7	.0	.0	.0	.0	3.3	1.2	SE
SSE	8	3.9	.7	.0	.0	.0	.0	4.6	1.2	SSE
S	9	2.6	.0	.0	.0	.0	.0	2.6	.9	S
SSW	10	3.3	.0	.0	.0	.0	.0	3.3	.9	SSW
SW	11	5.9	.0	.0	.0	4.6	.0	10.5	4.5	SW
WSW	12	1.3	.0	.0	.0	.7	.0	2.0	4.1	WSW
W	13	1.3	.0	.0	.0	.0	.0	1.3	1.3	W
WNW	14	2.0	.0	.0	.0	.0	.0	2.0	1.2	WNW
NW	15	.0	.7	.0	.0	.0	.0	.7	2.3	NW
NNW	16	2.6	.0	.0	.0	.0	.0	2.6	.6	NNW
CALM		47.4							47.4	
TOTAL		81.6	5.9	3.9	3.3	5.3	.0	100.0	1.3	

98.5% DATA RECOVERED
20.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition 11/ 1/1994 - 11/30/1994
600 - 1000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.0	.0	.7	.7	.0	.0	3.3	2.6	N
NNE	2	2.0	.7	1.3	2.0	.0	.0	6.0	3.9	NNE
NE	3	4.0	1.3	2.0	.7	.0	.0	8.0	2.6	NE
ENE	4	2.7	.7	.0	.0	.0	.0	3.3	1.3	ENE
E	5	7.3	.7	.7	.0	.0	.0	8.7	1.4	E
ESE	6	6.0	.7	.0	.0	.0	.0	6.7	1.2	ESE
SE	7	2.7	.0	.0	.0	.0	.0	2.7	.8	SE
SSE	8	3.3	.7	.0	.0	.0	.0	4.0	1.1	SSE
S	9	4.0	1.3	.7	.0	.0	.0	6.0	1.6	S
SSW	10	4.0	2.7	.7	.7	.0	.0	8.0	2.1	SSW
SW	11	8.0	1.3	2.0	.7	.0	.0	12.0	2.2	SW
WSW	12	4.7	.0	2.7	.7	.7	.0	8.7	3.2	WSW
W	13	2.0	.0	.0	.0	.0	.0	2.0	1.2	W
WNW	14	3.3	.0	.0	.7	.0	.0	4.0	1.9	WNW
NW	15	2.7	.0	.0	.0	.0	.0	2.7	.8	NW
NNW	16	1.3	1.3	.0	.0	.0	.0	2.7	1.6	NNW
CALM		11.3							11.3	
TOTAL		71.3	11.3	10.7	6.0	.7	.0	100.0	1.8	

99.7% DATA RECOVERED
20.9% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition 12/ 1/1994 - 12/31/1994
600 - 1000 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.0	2.0	2.0	.0	.0	.0	8.0	2.2	N
NNE	2	7.0	2.0	.0	6.0	.0	.0	15.0	3.5	NNE
NE	3	1.0	1.0	1.0	3.0	.0	.0	6.0	4.4	NE
ENE	4	6.0	.0	.0	.0	.0	.0	6.0	1.1	ENE
E	5	6.0	.0	.0	.0	.0	.0	6.0	.9	E
ESE	6	2.0	.0	.0	.0	.0	.0	2.0	1.3	ESE
SE	7	3.0	1.0	.0	.0	.0	.0	4.0	1.3	SE
SSE	8	3.0	.0	.0	.0	.0	.0	3.0	.8	SSE
S	9	5.0	.0	.0	.0	.0	.0	5.0	1.0	S
SSW	10	5.0	1.0	.0	.0	.0	.0	6.0	1.3	SSW
SW	11	14.0	1.0	.0	.0	.0	.0	15.0	1.3	SW
WSW	12	3.0	.0	.0	.0	.0	.0	3.0	.9	WSW
W	13	4.0	.0	.0	.0	.0	.0	4.0	.8	W
WNW	14	1.0	1.0	.0	.0	.0	.0	2.0	1.4	WNW
NW	15	3.0	1.0	.0	.0	.0	.0	4.0	1.3	NW
NNW	16	1.0	.0	.0	.0	.0	.0	1.0	.9	NNW
CALM		10.0							10.0	
TOTAL		78.0	10.0	3.0	9.0	.0	.0	100.0	1.6	

65.1% DATA RECOVERED
20.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day

1/ 1/1994 - 1/31/1994
1000 - 1600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.6	.6	1.2	.0	.0	2.4	5.1	N
NNE	2	.0	1.2	3.6	3.0	1.2	.0	8.9	5.8	NNE
NE	3	1.8	2.4	.6	.6	.0	.0	5.4	2.8	NE
ENE	4	10.1	1.2	.0	.0	.0	.0	11.3	1.3	ENE
E	5	3.6	1.8	.0	.0	.0	.0	5.4	1.2	E
ESE	6	8.3	.6	.6	.0	.6	.0	10.1	1.6	ESE
SE	7	5.4	.0	.6	.0	.0	.0	6.0	1.4	SE
SSE	8	5.4	.6	.0	.0	.0	.0	6.0	1.1	SSE
S	9	9.5	.0	2.4	.0	.0	.0	11.9	1.5	S
SSW	10	4.2	.6	1.2	.0	.0	.0	6.0	1.7	SSW
SW	11	3.0	1.2	.0	1.2	.0	.0	5.4	2.3	SW
WSW	12	2.4	.0	.0	.0	.0	.0	2.4	.8	WSW
W	13	2.4	.0	.6	.0	.0	.0	3.0	1.8	W
WNW	14	.6	.0	.0	.0	.0	.0	.6	.6	WNW
NW	15	.6	.0	.0	.0	.0	.0	.6	.5	NW
NNW	16	.0	.0	.0	.0	.6	.0	.6	10.1	NNW
CALM		14.3							14.3	
TOTAL		71.4	10.1	10.1	6.0	2.4	.0	100.0	1.9	

78.0% DATA RECOVERED
29.0% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day

2/ 1/1994 - 2/28/1994
1000 - 1600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.6	.0	3.0	1.2	.6	.0	5.4	5.1	N
NNE	2	1.8	.0	6.0	1.8	.6	.0	10.2	4.5	NNE
NE	3	5.4	.6	.0	.6	.0	.0	6.6	1.6	NE
ENE	4	4.2	1.8	.0	.0	.0	.0	6.0	1.3	ENE
E	5	7.2	.0	.6	.6	.0	.0	8.4	1.7	E
ESE	6	2.4	1.2	.0	.0	.0	.0	3.6	1.3	ESE
SE	7	3.6	3.6	.6	.0	.0	.0	7.8	1.9	SE
SSE	8	1.2	.6	.0	.0	.0	.0	1.8	1.2	SSE
S	9	5.4	.6	1.2	.6	.0	.0	7.8	2.0	S
SSW	10	7.2	2.4	3.6	2.4	.0	.0	15.6	3.1	SSW
SW	11	3.0	1.2	4.2	.0	.0	.0	8.4	2.9	SW
WSW	12	2.4	.6	1.2	.6	.0	.0	4.8	2.8	WSW
W	13	3.0	.0	.0	.0	.0	.0	3.0	.9	W
WNW	14	.0	.6	.0	1.2	.0	.0	1.8	4.7	WNW
NW	15	.6	.0	.0	.6	1.2	.0	2.4	6.6	NW
NNW	16	.6	.0	.0	.0	1.2	.0	1.8	6.0	NNW
CALM		4.8							4.8	
TOTAL		53.3	13.2	20.4	9.6	3.6	.0	100.0	2.7	

85.4% DATA RECOVERED
29.1% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day

3/ 1/1994 - 3/31/1994
1000 - 1600 (HST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.4	1.4	.0	.5	.0	1.4	4.6	5.3	N
NNE	2	1.4	.9	.5	5.1	1.8	.5	10.1	6.2	NNE
NE	3	1.8	1.8	2.3	1.4	.5	.0	7.8	4.0	NE
ENE	4	.9	.5	1.8	.0	.0	.0	3.2	3.1	ENE
E	5	2.3	2.8	2.3	.0	.0	.0	7.4	2.6	E
ESE	6	2.3	1.8	.0	.0	.0	.0	4.1	1.7	ESE
SE	7	3.7	1.4	.0	.0	.0	.0	5.1	1.7	SE
SSE	8	2.8	1.4	.0	.0	.0	.0	4.1	1.5	SSE
S	9	2.3	2.3	.0	.0	.0	.0	4.6	1.9	S
SSW	10	3.7	1.4	.5	3.2	2.3	3.2	14.3	7.0	SSW
SW	11	1.4	1.4	5.5	10.1	5.1	.5	24.0	6.6	SW
WSW	12	4.1	.5	.0	.0	.0	.0	4.6	1.2	WSW
W	13	.9	.5	.0	.0	.0	.0	1.4	1.6	W
WNW	14	.9	.0	.0	.0	.0	.0	.9	1.2	WNW
NW	15	.5	.0	.0	.0	.0	.0	.5	1.2	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		3.2							3.2	
TOTAL		33.6	18.0	12.9	20.3	9.7	5.5	100.0	4.5	

100.0% DATA RECOVERED
29.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day

4/ 1/1994 - 4/30/1994
1000 - 1600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.5	.0	.0	.5	7.7	N
NNE	2	.0	.0	1.0	.0	1.9	.0	2.9	7.7	NNE
NE	3	.0	.5	1.0	.0	.0	.0	1.4	3.3	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.5	1.9	1.0	.5	.0	.0	3.8	3.5	E
ESE	6	2.4	2.9	.5	.0	.0	.0	5.7	2.1	ESE
SE	7	.5	4.8	.5	.5	.0	.0	6.2	2.7	SE
SSE	8	2.4	3.3	.5	.5	.0	.0	6.7	2.2	SSE
S	9	1.9	3.8	1.0	1.0	.5	.0	8.1	3.3	S
SSW	10	2.9	3.8	3.8	1.4	2.4	3.8	18.1	6.2	SSW
SW	11	.0	2.4	8.1	11.4	2.9	1.9	26.7	6.4	SW
WSW	12	1.4	1.0	4.8	2.9	.0	.0	10.0	4.3	WSW
W	13	1.4	.5	1.4	1.4	.0	.0	4.8	3.9	W
WNW	14	.0	.5	.0	.5	.0	.0	1.0	5.2	WNW
NW	15	.5	.0	.0	.5	.5	.5	1.9	6.8	NW
NNW	16	.0	.0	.0	.5	.5	1.0	1.9	10.6	NNW
CALM		.5							.5	
TOTAL		14.3	25.2	23.3	21.4	8.6	7.1	100.0	5.0	

99.9% DATA RECOVERED
29.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day

5/ 1/1994 - 5/31/1994
1000 - 1600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.5	.5	1.0	.0	.0	.0	1.9	3.3	N
NNE	2	.5	.5	.0	.0	.0	.0	1.0	1.8	NNE
NE	3	1.0	.5	.0	.0	.0	.0	1.4	1.7	NE
ENE	4	.5	1.4	.0	.0	.0	.0	1.9	1.9	ENE
E	5	1.9	1.4	1.0	.5	.0	.0	4.8	2.7	E
ESE	6	1.0	1.4	.0	.0	.0	.0	2.4	1.9	ESE
SE	7	.5	1.4	1.4	1.4	.0	.0	4.8	4.2	SE
SSE	8	.5	2.4	1.0	1.4	.0	.0	5.2	3.8	SSE
S	9	.5	1.9	2.4	.0	.5	.5	5.7	4.6	S
SSW	10	.5	3.3	2.9	1.0	2.9	4.8	15.2	7.6	SSW
SW	11	1.0	4.3	12.9	11.9	11.0	3.8	44.8	6.8	SW
WSW	12	.0	1.4	2.4	.5	.0	.0	4.3	4.1	WSW
W	13	.5	1.0	.5	1.0	.0	.0	2.9	3.9	W
WNW	14	1.0	.5	.0	.0	.0	.0	1.4	2.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.5	1.0	.5	.5	.0	.0	2.4	3.7	NNW
CALM		.0							.0	
TOTAL		10.0	22.9	25.7	18.1	14.3	9.0	100.0	5.6	

96.9% DATA RECOVERED
29.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day

6/ 1/1994 - 6/30/1994
1000 - 1600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.5	1.0	.0	.0	.0	.0	1.4	1.8	N
NNE	2	.5	.0	.0	.0	.0	.0	.5	1.4	NNE
NE	3	.5	.0	.0	.0	.0	.0	.5	1.3	NE
ENE	4	1.0	.5	.0	.0	.0	.0	1.4	1.3	ENE
E	5	.0	1.4	.0	.0	.0	.0	1.4	2.2	E
ESE	6	1.0	1.9	.0	.0	.0	.0	2.9	2.1	ESE
SE	7	.5	.5	.0	.0	.0	.0	1.0	2.1	SE
SSE	8	.5	.5	.0	.0	.0	.0	1.0	1.4	SSE
S	9	1.0	1.4	1.4	.0	.0	.0	3.8	2.7	S
SSW	10	.5	1.4	2.4	1.4	4.3	.5	10.5	7.0	SSW
SW	11	.5	1.4	5.7	28.1	18.1	6.2	60.0	7.9	SW
WSW	12	.0	1.4	1.4	6.2	3.8	.5	13.3	7.0	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.5	.5	.0	.0	.0	.0	1.0	2.2	WNW
NW	15	.5	.0	.0	.0	.0	.0	.5	1.2	NW
NNW	16	1.0	.0	.0	.0	.0	.0	1.0	1.3	NNW
CALM		.0							.0	
TOTAL		8.1	11.9	11.0	35.7	26.2	7.1	100.0	6.7	

100.0% DATA RECOVERED
29.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day

7/ 1/1994 - 7/31/1994
1000 - 1600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.9	.5	.0	.0	.0	1.4	3.4	N
NNE	2	.5	.5	.0	.0	.0	.0	.9	1.6	NNE
NE	3	.0	1.4	.0	.0	.0	.0	1.4	2.8	NE
ENE	4	.0	1.4	.0	.0	.0	.0	1.4	2.8	ENE
E	5	.0	1.4	.0	.0	.0	.0	1.4	2.8	E
ESE	6	1.4	.0	.0	.0	.0	.0	1.4	1.2	ESE
SE	7	1.4	2.8	1.8	.0	.0	.0	6.0	2.6	SE
SSE	8	.5	.9	.9	.0	.0	.0	2.3	2.9	SSE
S	9	1.8	1.8	.9	.0	.0	.0	4.6	2.4	S
SSW	10	.9	2.8	6.0	3.2	3.2	.0	16.1	5.4	SSW
SW	11	.0	1.8	13.4	36.4	6.5	.9	59.0	6.8	SW
WSW	12	.0	.5	.9	.5	.0	.0	1.8	4.6	WSW
W	13	.5	.0	.0	.0	.0	.0	.5	1.4	W
WNW	14	.5	.0	.0	.0	.0	.0	.5	1.6	WNW
NW	15	.0	.5	.0	.0	.0	.0	.5	2.1	NW
NNW	16	.5	.5	.0	.0	.0	.0	.9	1.8	NNW
CALM		.0							.0	
TOTAL		7.8	17.1	24.4	40.1	9.7	.9	100.0	5.5	

100.0% DATA RECOVERED
29.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day

8/ 1/1994 - 8/31/1994
1000 - 1600 (MST)

W I N D S P E E D C L A S S

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.5	.9	.0	.0	.0	.0	1.4	2.0	N
NNE	2	.5	.5	.5	.0	.0	.0	1.4	2.4	NNE
NE	3	.9	.5	.0	.0	.0	.0	1.4	1.8	NE
ENE	4	.5	1.8	.0	.0	.0	.0	2.3	1.9	ENE
E	5	.0	.0	.5	.0	.0	.0	.5	5.0	E
ESE	6	1.4	.0	.5	.5	.0	.0	2.3	2.7	ESE
SE	7	.5	.9	3.7	.9	.0	.0	6.0	4.0	SE
SSE	8	.9	.5	1.4	.0	.0	.0	2.8	3.1	SSE
S	9	.0	1.8	.9	1.8	.0	.0	4.6	4.6	S
SSW	10	.0	1.4	4.1	5.1	3.2	.0	13.8	6.4	SSW
SW	11	1.4	.9	7.4	28.1	13.8	1.8	53.5	7.3	SW
WSW	12	.9	.0	1.8	4.1	.0	.0	6.9	5.2	WSW
W	13	.5	.0	.5	.0	.0	.0	.9	2.3	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.5	.0	.0	.5	7.2	NW
NNW	16	.9	.0	.5	.0	.0	.0	1.4	2.3	NNW
CALM		.5							.5	
TOTAL		9.2	9.2	21.7	41.0	17.1	1.8	100.0	6.0	

100.0% DATA RECOVERED
29.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day

9/ 1/1994 - 9/30/1994
1000 - 1600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.0	.0	.5	.0	1.0	.0	2.4	5.0	N
NNE	2	1.9	.5	.0	1.4	.0	.0	3.8	3.8	NNE
NE	3	2.9	1.0	.5	.0	.0	.0	4.3	1.9	NE
ENE	4	3.3	.0	.0	.0	.0	.0	3.3	1.1	ENE
E	5	2.9	1.9	.0	.0	.0	.0	4.8	1.7	E
ESE	6	1.4	2.4	.5	.0	.0	.0	4.3	2.1	ESE
SE	7	2.4	1.0	.0	.0	.0	.0	3.3	1.6	SE
SSE	8	1.4	1.4	.0	.0	.0	.0	2.9	1.8	SSE
S	9	.5	1.0	.0	.0	.0	.0	1.4	1.9	S
SSW	10	1.9	2.4	1.4	3.8	8.6	4.3	22.4	8.0	SSW
SW	11	1.4	1.9	5.7	16.7	4.8	1.9	32.4	6.6	SW
WSW	12	.0	1.0	2.9	2.4	.0	.0	6.2	4.8	WSW
W	13	.0	.5	.0	.0	.0	.0	.5	1.8	W
WNW	14	.5	.0	.0	.0	.0	.0	.5	1.3	WNW
NW	15	.0	1.0	.0	.5	.0	.0	1.4	3.4	NW
NNW	16	.5	1.0	.0	.0	1.0	.0	2.4	4.4	NNW
CALM		3.8							3.8	
TOTAL		25.7	16.7	11.4	24.8	15.2	6.2	100.0	5.1	

99.2% DATA RECOVERED
29.4% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day

10/ 1/1994 - 10/31/1994
1000 - 1600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.9	.5	.9	1.8	.0	.0	4.1	4.6	N
NNE	2	2.3	1.8	4.1	2.8	.0	.0	11.1	4.0	NNE
NE	3	.9	.9	.9	.5	.0	.0	3.2	3.3	NE
ENE	4	.9	1.8	.0	.0	.0	.0	2.8	1.9	ENE
E	5	3.2	.5	.0	.0	.0	.0	3.7	1.3	E
ESE	6	3.2	.0	.0	.0	.0	.0	3.2	1.1	ESE
SE	7	2.8	.5	.0	.0	.0	.0	3.2	1.4	SE
SSE	8	6.0	.9	.0	.0	.0	.0	6.9	1.3	SSE
S	9	6.0	1.4	.0	.0	.0	.0	7.4	1.3	S
SSW	10	4.1	.9	.9	.9	1.4	.5	8.8	4.0	SSW
SW	11	.5	2.3	9.2	7.4	2.3	.9	22.6	5.6	SW
WSW	12	2.8	1.4	3.2	1.4	.0	.0	8.8	3.3	WSW
W	13	.9	.0	.0	.5	.0	.0	1.4	2.6	W
WNW	14	.0	.0	.5	.0	.0	.0	.5	4.6	WNW
NW	15	.9	.5	.0	.0	.0	.0	1.4	1.4	NW
NNW	16	.9	.0	.0	.5	.0	.0	1.4	3.0	NNW
CALM		9.7							9.7	
TOTAL		46.1	13.4	19.8	15.7	3.7	1.4	100.0	3.1	

98.5% DATA RECOVERED
29.6% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day

11/ 1/1994 - 11/30/1994
1000 - 1600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.4	.0	1.0	1.4	.0	.0	3.8	4.1	N
NNE	2	3.3	.0	1.4	4.8	.0	.0	9.6	4.4	NNE
NE	3	4.3	1.0	1.9	1.0	.0	.0	8.1	2.7	NE
ENE	4	2.4	.5	2.4	.0	.0	.0	5.3	2.5	ENE
E	5	7.2	1.9	1.0	.0	.0	.0	10.0	1.6	E
ESE	6	5.3	.5	1.0	.0	.0	.0	6.7	1.6	ESE
SE	7	3.8	2.4	1.4	.0	.0	.0	7.7	2.1	SE
SSE	8	1.4	.5	.0	.0	.0	.0	1.9	1.4	SSE
S	9	1.4	1.0	.0	.0	.0	.0	2.4	1.3	S
SSW	10	1.4	1.0	1.0	1.9	.0	2.4	7.7	6.6	SSW
SW	11	3.3	3.3	2.9	5.3	1.9	1.9	18.7	5.5	SW
WSW	12	1.0	.0	1.4	.0	.0	.0	2.4	3.0	WSW
W	13	.0	.0	.0	.5	.0	.0	.5	5.9	W
WNW	14	1.0	.0	.0	1.4	.0	.0	2.4	4.3	WNW
NW	15	1.4	.0	.0	.5	.5	.0	2.4	4.0	NW
NNW	16	1.0	.0	.0	1.4	.0	.0	2.4	4.7	NNW
CALM		8.1							8.1	
TOTAL		47.8	12.0	15.3	18.2	2.4	4.3	100.0	3.4	

99.7% DATA RECOVERED
29.1% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day

12/ 1/1994 - 12/31/1994
1000 - 1600 (MST)

W I N D S P E E D C L A S S

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.8	.7	2.1	.0	.0	.0	5.6	2.4	N
NNE	2	3.5	1.4	2.1	4.2	.0	.0	11.2	3.9	NNE
NE	3	1.4	2.8	4.2	1.4	.0	.0	9.8	3.7	NE
ENE	4	9.8	1.4	.0	.0	.0	.0	11.2	1.3	ENE
E	5	7.0	.7	.0	.0	.0	.0	7.7	1.1	E
ESE	6	4.9	2.8	.0	.0	.0	.0	7.7	1.6	ESE
SE	7	4.2	1.4	3.5	.0	.0	.0	9.1	2.7	SE
SSE	8	2.1	.0	.0	.0	.0	.0	2.1	1.0	SSE
S	9	2.8	.0	.0	.0	.0	.0	2.8	1.0	S
SSW	10	2.1	.7	.0	.0	.0	.0	2.8	1.1	SSW
SW	11	3.5	1.4	1.4	.0	.0	.0	6.3	2.5	SW
WSW	12	3.5	.0	.0	.0	.0	.0	3.5	1.1	WSW
W	13	2.1	.0	.0	.0	.0	.0	2.1	1.1	W
WNW	14	.7	.0	.7	.0	.0	.0	1.4	2.6	WNW
NW	15	2.8	.7	.7	.0	.0	.0	4.2	1.8	NW
NNW	16	2.1	.7	1.4	.0	.0	.0	4.2	1.9	NNW
CALM		8.4							8.4	
TOTAL		63.6	14.7	16.1	5.6	.0	.0	100.0	2.0	

65.1% DATA RECOVERED
29.5% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition 1/ 1/1994 - 1/31/1994
1600 - 2000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.8	1.7	.0	.0	.0	2.5	4.0	N
NNE	2	.0	1.7	6.7	.0	.0	.0	8.3	4.1	NNE
NE	3	.8	.0	5.0	.0	.0	.0	5.8	3.7	NE
ENE	4	.8	.8	.0	.0	.0	.0	1.7	1.7	ENE
E	5	.8	.8	.8	.0	.0	.0	2.5	2.9	E
ESE	6	2.5	.8	1.7	.0	.0	.0	5.0	2.1	ESE
SE	7	5.0	.0	.8	.0	.0	.0	5.8	1.6	SE
SSE	8	3.3	.8	.0	.0	.0	.0	4.2	1.5	SSE
S	9	6.7	.8	2.5	.0	.0	.0	10.0	1.8	S
SSW	10	6.7	3.3	1.7	.8	.0	.0	12.5	2.3	SSW
SW	11	5.8	10.0	.8	.0	.0	.0	16.7	2.0	SW
WSW	12	5.0	2.5	.0	.0	.0	.0	7.5	1.6	WSW
W	13	5.0	.0	.0	.0	.0	.0	5.0	1.3	W
WNW	14	2.5	1.7	.0	.0	.0	.0	4.2	1.6	WNW
NW	15	3.3	.8	.0	.0	.0	.0	4.2	1.8	NW
NNW	16	.0	.0	.0	.0	.8	1.7	2.5	11.1	NNW
CALM		1.7							1.7	
TOTAL		50.0	25.0	21.7	.8	.8	1.7	100.0	2.4	

78.0% DATA RECOVERED
20.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition 2/ 1/1994 - 2/28/1994
1600 - 2000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.7	3.9	2.3	.8	.0	.0	11.7	2.7	N
NNE	2	3.1	1.6	4.7	3.1	1.6	.0	14.1	4.5	NNE
NE	3	3.1	1.6	3.1	.0	.0	.0	7.8	3.0	NE
ENE	4	.8	1.6	.8	.0	.0	.0	3.1	2.3	ENE
E	5	.8	.0	.0	1.6	.0	.0	2.3	4.4	E
ESE	6	.0	.8	.0	.0	.0	.0	.8	2.3	ESE
SE	7	.8	2.3	.0	.0	.0	.0	3.1	2.0	SE
SSE	8	2.3	.8	.0	.0	.0	.0	3.1	1.3	SSE
S	9	2.3	3.1	1.6	.8	.0	.0	7.8	2.8	S
SSW	10	.8	2.3	.0	1.6	.0	.0	4.7	3.5	SSW
SW	11	3.1	6.3	3.1	.0	.0	.0	12.5	2.6	SW
WSW	12	1.6	3.1	1.6	.0	.0	.0	6.3	2.5	WSW
W	13	2.3	1.6	.0	.0	.0	.0	3.9	1.9	W
WNW	14	1.6	2.3	.8	2.3	.0	.0	7.0	3.5	WNW
NW	15	2.3	.8	.0	.0	.0	.0	3.1	1.7	NW
NNW	16	3.1	.0	.0	.8	.0	.0	3.9	2.5	NNW
CALM		4.7							4.7	
TOTAL		37.5	32.0	18.0	10.9	1.6	.0	100.0	2.8	

85.4% DATA RECOVERED
22.3% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition 3/ 1/1994 - 3/31/1994
1600 - 2000 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.3	.6	.6	.0	1.3	1.3	5.2	6.4	N
NNE	2	.6	1.3	1.3	1.3	.0	.0	4.5	4.2	NNE
NE	3	1.9	1.9	.6	2.6	.0	.0	7.1	4.1	NE
ENE	4	1.3	1.9	.6	.0	.0	.0	3.9	2.2	ENE
E	5	.6	.0	.0	.0	.0	.0	.6	1.5	E
ESE	6	1.9	3.2	.0	.0	.0	.0	5.2	1.9	ESE
SE	7	1.3	1.3	.0	.0	.0	.0	2.6	2.2	SE
SSE	8	1.3	.0	.0	.0	.0	.0	1.3	1.1	SSE
S	9	.6	.6	.0	.0	.0	.0	1.3	1.8	S
SSW	10	1.3	2.6	3.9	5.2	.0	.0	12.9	5.0	SSW
SW	11	4.5	10.3	6.5	5.2	2.6	.0	29.0	4.0	SW
WSW	12	2.6	3.9	1.3	.0	.0	.0	7.7	2.2	WSW
W	13	1.3	2.6	.0	.0	.0	.0	3.9	2.1	W
WNW	14	3.2	.0	.6	.0	.0	.0	3.9	2.0	WNW
NW	15	1.3	1.3	1.3	.6	.0	.0	4.5	2.9	NW
NNW	16	1.3	2.6	2.6	.0	.0	.0	6.5	3.0	NNW
CALM		.0							.0	
TOTAL		26.5	34.2	19.4	14.8	3.9	1.3	100.0	3.5	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition 4/ 1/1994 - 4/30/1994
1600 - 2000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.7	.0	.0	.7	7.5	N
NNE	2	.0	.0	1.3	2.0	1.3	.0	4.7	7.5	NNE
NE	3	.0	3.3	.0	.0	.0	.0	3.3	2.4	NE
ENE	4	.7	.7	.7	.0	.0	.0	2.0	2.8	ENE
E	5	2.7	.0	.7	1.3	.0	.0	4.7	3.0	E
ESE	6	2.0	2.0	1.3	.0	.0	.0	5.3	2.6	ESE
SE	7	3.3	2.7	.7	.0	.0	.0	6.7	2.2	SE
SSE	8	1.3	.7	.0	.0	.0	.0	2.0	1.5	SSE
S	9	5.3	2.0	.7	.0	.0	.0	8.0	2.0	S
SSW	10	.7	4.7	4.0	.7	1.3	.0	11.3	4.1	SSW
SW	11	2.0	5.3	8.0	10.0	.7	2.7	28.7	5.5	SW
WSW	12	1.3	5.3	2.7	2.0	.0	.0	11.3	3.3	WSW
W	13	1.3	1.3	.7	.7	.0	.0	4.0	3.0	W
WNW	14	.0	.7	.0	.7	.0	.0	1.3	4.8	WNW
NW	15	.0	1.3	.0	.0	.7	.0	2.0	5.1	NW
NNW	16	.0	1.3	.7	1.3	.7	.0	4.0	5.9	NNW
CALM		.0							.0	
TOTAL		20.7	31.3	21.3	19.3	4.7	2.7	100.0	4.1	

99.9% DATA RECOVERED
20.9% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition 5/ 1/1994 - 5/31/1994
1600 - 2000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.7	.7	.7	.0	.0	.0	2.0	2.5	N
NNE	2	.0	2.7	.7	.7	.0	.0	4.0	3.5	NNE
NE	3	.0	2.7	.0	.7	.0	.0	3.3	3.2	NE
ENE	4	.0	.7	.7	.0	.0	.0	1.3	3.7	ENE
E	5	.7	1.3	.0	.7	.0	.0	2.7	3.0	E
ESE	6	.7	2.0	2.0	.0	.0	.0	4.7	2.7	ESE
SE	7	.0	2.0	2.0	3.3	.0	.0	7.3	4.9	SE
SSE	8	.0	1.3	3.3	.0	.0	.0	4.7	3.8	SSE
S	9	.0	1.3	2.0	.7	.0	.0	4.0	4.2	S
SSW	10	.0	2.0	4.0	4.7	1.3	2.7	14.7	7.0	SSW
SW	11	1.3	6.7	6.0	13.3	4.7	1.3	33.3	6.0	SW
WSW	12	.7	.7	7.3	2.0	.7	.0	11.3	4.7	WSW
W	13	.7	.7	.0	.0	.0	.0	1.3	2.4	W
WNW	14	1.3	.7	.7	.0	.0	.0	2.7	2.2	WNW
NW	15	.7	.7	.0	.0	.0	.0	1.3	1.7	NW
NNW	16	.0	.7	.0	.7	.0	.0	1.3	3.9	NNW
CALM		.0							.0	
TOTAL		6.7	26.7	29.3	26.7	6.7	4.0	100.0	5.0	

96.9% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition 6/ 1/1994 - 6/30/1994
1600 - 2000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	.7	.0	.0	.0	.0	.0	.7	.8	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	1.3	.0	.0	.0	.0	.0	1.3	1.1	E
ESE	6	.7	.0	.0	.0	.0	.0	.7	1.5	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.7	.0	.0	.0	.0	.0	.7	1.2	S
SSW	10	1.3	1.3	1.3	6.7	4.7	2.0	17.3	7.3	SSW
SW	11	2.0	7.3	7.3	30.0	5.3	2.0	54.0	6.2	SW
WSW	12	1.3	4.7	7.3	5.3	.7	.0	19.3	4.4	WSW
W	13	.0	1.3	.0	.0	.0	.0	1.3	2.1	W
WNW	14	.7	1.3	.7	.0	.0	.0	2.7	2.5	WNW
NW	15	.7	.0	.0	.0	.0	.0	.7	1.4	NW
NNW	16	1.3	.0	.0	.0	.0	.0	1.3	1.4	NNW
CALM		.0							.0	
TOTAL		10.7	16.0	16.7	42.0	10.7	4.0	100.0	5.7	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition 7/ 1/1994 - 7/31/1994
1600 - 2000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.3	1.9	1.9	.0	.0	.0	5.2	2.8	N
NNE	2	.0	.6	.0	.0	.0	.0	.6	3.3	NNE
NE	3	.6	.6	.6	.0	.0	.0	1.9	2.6	NE
ENE	4	1.3	1.3	.6	.0	.0	.0	3.2	2.3	ENE
E	5	.6	.0	.0	.6	.0	.0	1.3	4.7	E
ESE	6	1.3	.0	.0	.6	.0	.0	1.9	3.5	ESE
SE	7	.6	.0	.0	.6	.0	.0	1.3	4.3	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	2.6	.6	.0	.0	.0	.0	3.2	1.7	S
SSW	10	.6	1.9	3.2	3.9	3.2	.0	12.9	5.8	SSW
SW	11	.6	7.1	11.6	29.0	3.2	.0	51.6	5.9	SW
WSW	12	.0	5.2	3.9	1.9	.0	.0	11.0	3.8	WSW
W	13	.6	1.9	.0	.0	.0	.0	2.6	2.0	W
WNW	14	1.9	.0	.0	.0	.0	.0	1.9	1.3	WNW
NW	15	.6	.0	.0	.0	.0	.0	.6	.7	NW
NNW	16	.0	.6	.0	.0	.0	.0	.6	1.9	NNW
CALM		.0							.0	
TOTAL		12.9	21.9	21.9	36.8	6.5	.0	100.0	4.8	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition 8/ 1/1994 - 8/31/1994
1600 - 2000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.6	.0	.0	.0	.0	.6	1.9	N
NNE	2	.0	.0	.6	.0	.0	.0	.6	5.4	NNE
NE	3	1.9	1.3	.0	.0	.0	.0	3.2	1.8	NE
ENE	4	.6	1.3	.0	.0	.0	.0	1.9	2.0	ENE
E	5	.6	.0	1.3	.0	.0	.0	1.9	3.2	E
ESE	6	.6	.6	.0	.0	.0	.0	1.3	2.2	ESE
SE	7	.6	.6	1.9	.6	.0	.0	3.9	4.0	SE
SSE	8	.6	.6	2.6	.0	.0	.0	3.9	3.6	SSE
S	9	1.9	1.3	1.3	.6	.0	.0	5.2	3.0	S
SSW	10	.0	2.6	5.2	7.7	2.6	.0	18.1	5.8	SSW
SW	11	1.3	5.2	10.3	14.2	5.2	.0	36.1	5.7	SW
WSW	12	1.9	1.9	5.2	3.2	.0	.0	12.3	4.1	WSW
W	13	1.3	1.9	.0	.0	.0	.0	3.2	2.0	W
WNW	14	1.3	1.3	.0	.0	.0	.0	2.6	2.0	WNW
NW	15	.6	.6	.0	.0	.0	.0	1.3	1.8	NW
NNW	16	1.9	.6	.6	.0	.0	.0	3.2	2.4	NNW
CALM		.6							.6	
TOTAL		16.1	20.6	29.0	26.5	7.7	.0	100.0	4.5	

100.0% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition 9/ 1/1994 - 9/30/1994
1600 - 2000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.3	2.0	.0	.7	.0	.0	6.0	2.3	N
NNE	2	.7	2.7	1.3	4.7	.0	.0	9.3	4.8	NNE
NE	3	2.7	2.7	.0	.0	.0	.0	5.3	1.8	NE
ENE	4	4.7	.0	.0	.0	.0	.0	4.7	1.0	ENE
E	5	.7	.7	.0	.0	.0	.0	1.3	1.9	E
ESE	6	2.0	.0	.0	.0	.0	.0	2.0	1.1	ESE
SE	7	1.3	.7	.0	.0	.0	.0	2.0	1.7	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	1.3	1.3	.7	.0	.0	.0	3.3	2.3	S
SSW	10	1.3	4.0	.7	6.7	4.0	.7	17.3	6.2	SSW
SW	11	2.7	8.7	7.3	10.0	.7	.0	29.3	4.4	SW
WSW	12	.7	2.7	3.3	2.0	.0	.0	8.7	4.3	WSW
W	13	.7	1.3	.0	.0	.0	.0	2.0	1.8	W
WNW	14	.7	.0	.0	.0	.0	.0	.7	1.7	WNW
NW	15	.0	1.3	.0	.0	.0	.0	1.3	2.3	NW
NNW	16	2.0	.7	.0	.7	.7	.0	4.0	3.4	NNW
CALM		2.7							2.7	
TOTAL		27.3	28.7	13.3	24.7	5.3	.7	100.0	3.8	

99.2% DATA RECOVERED
21.0% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition 10/ 1/1994 - 10/31/1994
1600 - 2000 (MST)

W I N D S P E E D C L A S S

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.2	2.6	.6	.0	.0	.0	6.5	2.0	N
NNE	2	3.9	3.9	2.6	.6	.0	.0	11.0	2.6	NNE
NE	3	.6	1.9	2.6	.6	.0	.0	5.8	3.6	NE
ENE	4	.6	.6	.0	.0	.0	.0	1.3	1.7	ENE
E	5	.0	1.9	.0	.0	.0	.0	1.9	2.4	E
ESE	6	.6	1.3	.0	.0	.0	.0	1.9	1.7	ESE
SE	7	2.6	.0	.0	.0	.0	.0	2.6	.8	SE
SSE	8	.6	.0	.0	.0	.0	.0	.6	.7	SSE
S	9	1.9	.6	.6	.0	.0	.0	3.2	1.9	S
SSW	10	3.9	3.2	1.9	1.3	.6	.0	11.0	3.3	SSW
SW	11	2.6	11.6	7.1	3.2	.0	.0	24.5	3.4	SW
WSW	12	1.3	1.3	3.2	1.3	.0	.0	7.1	3.8	WSW
W	13	1.9	1.3	.0	.0	.0	.0	3.2	1.2	W
WNW	14	1.3	.6	.0	.0	.0	.0	1.9	1.4	WNW
NW	15	2.6	1.9	.6	.0	.0	.0	5.2	1.9	NW
NNW	16	1.9	.6	.0	.0	.0	.0	2.6	1.5	NNW
CALM		9.7							9.7	
TOTAL		39.4	33.5	19.4	7.1	.6	.0	100.0	2.5	

98.5% DATA RECOVERED
21.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition 11/ 1/1994 - 11/30/1994
1600 - 2000 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.7	2.0	1.3	.0	.0	.0	4.0	2.9	N
NNE	2	.7	2.0	1.3	2.7	.0	.0	6.7	4.1	NNE
NE	3	.7	4.0	2.7	.0	.0	.0	7.4	3.1	NE
ENE	4	1.3	1.3	.7	.0	.0	.0	3.4	2.1	ENE
E	5	.7	3.4	.0	.0	.0	.0	4.0	2.1	E
ESE	6	2.7	.0	.0	.0	.0	.0	2.7	1.4	ESE
SE	7	.0	.7	.0	.0	.0	.0	.7	3.3	SE
SSE	8	2.0	1.3	.7	.0	.0	.0	4.0	2.2	SSE
S	9	.7	.7	.0	.0	.0	.0	1.3	2.3	S
SSW	10	2.7	3.4	.7	2.0	.0	3.4	12.1	5.9	SSW
SW	11	4.7	6.0	.7	3.4	.0	.0	14.8	3.1	SW
WSW	12	2.0	1.3	1.3	1.3	.0	.0	6.0	3.4	WSW
W	13	2.0	.7	.0	.0	.0	.0	2.7	1.6	W
WNW	14	4.0	2.0	.7	.7	.0	.0	7.4	2.4	WNW
NW	15	4.7	3.4	.7	.7	.7	.0	10.1	2.8	NW
NNW	16	3.4	2.7	2.0	1.3	.7	.0	10.1	3.3	NNW
CALM		2.7							2.7	
TOTAL		35.6	34.9	12.8	12.1	1.3	3.4	100.0	3.2	

99.7% DATA RECOVERED
20.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition 12/ 1/1994 - 12/31/1994
1600 - 2000 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.0	1.0	1.0	.0	.0	.0	3.0	2.3	N
NNE	2	2.0	.0	3.0	.0	.0	.0	5.0	3.1	NNE
NE	3	5.0	1.0	2.0	1.0	.0	.0	8.9	2.9	NE
ENE	4	2.0	.0	.0	.0	.0	.0	2.0	1.6	ENE
E	5	2.0	1.0	1.0	.0	.0	.0	4.0	2.3	E
ESE	6	2.0	1.0	.0	.0	.0	.0	3.0	1.4	ESE
SE	7	2.0	3.0	3.0	.0	.0	.0	7.9	2.7	SE
SSE	8	4.0	.0	.0	.0	.0	.0	4.0	1.0	SSE
S	9	3.0	.0	.0	1.0	.0	.0	4.0	2.6	S
SSW	10	2.0	4.0	.0	1.0	.0	.0	6.9	2.7	SSW
SW	11	1.0	3.0	2.0	1.0	.0	.0	6.9	3.2	SW
WSW	12	9.9	3.0	.0	.0	.0	.0	12.9	1.6	WSW
W	13	4.0	2.0	.0	.0	.0	.0	5.9	1.8	W
WNW	14	.0	4.0	1.0	.0	.0	.0	5.0	2.3	WNW
NW	15	3.0	5.9	2.0	.0	.0	.0	10.9	2.4	NW
NNW	16	4.0	3.0	2.0	.0	.0	.0	8.9	2.2	NNW
CALM		1.0							1.0	
TOTAL		47.5	31.7	16.8	4.0	.0	.0	100.0	2.3	

65.1% DATA RECOVERED
20.9% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time

1/ 1/1994 - 1/31/1994
2000 - 600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.4	.0	.0	.0	.4	4.5	N
NNE	2	.0	.0	1.5	.0	.0	.0	1.5	4.7	NNE
NE	3	.7	.7	.4	.0	.0	.0	1.9	2.2	NE
ENE	4	.0	1.1	.7	.0	.0	.0	1.9	3.4	ENE
E	5	1.5	1.1	.7	.0	.0	.0	3.4	2.2	E
ESE	6	4.5	.7	.4	.0	.0	.0	5.6	1.4	ESE
SE	7	3.0	1.1	.0	.0	.0	.0	4.1	1.3	SE
SSE	8	6.7	.7	.0	.0	.0	.0	7.5	1.0	SSE
S	9	13.1	1.1	.0	.0	.0	.0	14.2	1.2	S
SSW	10	10.1	3.0	.0	.0	.0	.0	13.1	1.3	SSW
SW	11	13.8	6.0	.4	.0	.0	.0	20.1	1.5	SW
WSW	12	11.6	.4	1.1	.0	.0	.0	13.1	1.4	WSW
W	13	4.5	.4	.0	.0	.0	.0	4.9	1.3	W
WNW	14	1.1	.0	.0	.0	.0	.0	1.1	1.0	WNW
NW	15	.7	.0	.4	.0	.0	.0	1.1	2.2	NW
NNW	16	.4	.4	.0	.0	.0	.0	.7	1.5	NNW
CALM		5.6							5.6	
TOTAL		77.2	16.8	6.0	.0	.0	.0	100.0	1.4	

78.0% DATA RECOVERED
46.2% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time

2/ 1/1994 - 2/28/1994
2000 - 600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	6.1	.4	1.5	.0	.0	.0	8.0	1.9	N
NNE	2	3.8	2.3	.4	1.1	.0	.0	7.6	2.4	NNE
NE	3	2.7	2.3	.4	.4	.0	.0	5.7	2.4	NE
ENE	4	2.3	1.5	1.1	.0	.0	.0	4.9	2.2	ENE
E	5	1.9	1.1	.4	.0	.0	.0	3.4	2.1	E
ESE	6	.8	.4	.0	.0	.0	.0	1.1	1.5	ESE
SE	7	1.1	.4	.0	.0	.0	.0	1.5	1.5	SE
SSE	8	3.8	.4	.0	.0	.0	.0	4.2	1.2	SSE
S	9	3.0	.4	.0	1.9	.8	.0	6.1	4.1	S
SSW	10	6.1	1.1	.4	.0	.0	.0	7.6	1.5	SSW
SW	11	10.6	.8	.8	.0	.0	.0	12.1	1.3	SW
WSW	12	8.0	1.9	.0	.4	.0	.0	10.2	1.6	WSW
W	13	4.2	1.5	.0	.0	.0	.0	5.7	1.5	W
WNW	14	5.3	2.3	.0	.4	.0	.0	8.0	1.8	WNW
NW	15	4.9	1.5	.0	.0	.4	.0	6.8	2.0	NW
NNW	16	3.8	.4	.4	.0	.0	.0	4.5	1.3	NNW
CALM		2.7							2.7	
TOTAL		70.8	18.6	5.3	4.2	1.1	.0	100.0	1.9	

85.4% DATA RECOVERED
46.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time

3/ 1/1994 - 3/31/1994
2000 - 600 (HST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.5	.3	.6	.0	.0	.0	4.4	1.9	N
NNE	2	4.4	1.5	2.1	2.6	.3	.0	10.9	3.5	NNE
NE	3	1.8	2.6	2.1	.0	.0	.0	6.5	2.9	NE
ENE	4	1.8	2.1	.0	.3	.0	.0	4.1	2.2	ENE
E	5	2.1	.9	.0	.0	.0	.0	2.9	1.5	E
ESE	6	2.1	.0	.0	.0	.0	.0	2.1	1.2	ESE
SE	7	1.2	1.5	.0	.0	.0	.0	2.6	1.9	SE
SSE	8	1.2	.0	.0	.0	.0	.0	1.2	.9	SSE
S	9	2.3	.3	.3	.0	.0	.0	2.9	1.5	S
SSW	10	6.7	.6	.9	1.8	.3	.0	10.3	2.6	SSW
SW	11	9.7	1.8	.9	.6	.0	.0	12.9	1.9	SW
WSW	12	9.4	1.8	.3	.0	.0	.0	11.4	1.4	WSW
W	13	5.6	1.8	.0	.0	.0	.0	7.3	1.5	W
WNW	14	5.0	.6	.3	.0	.0	.0	5.9	1.4	WNW
NW	15	3.5	2.3	.3	.3	.0	.0	6.5	2.0	NW
NNW	16	3.2	.9	.6	.0	.0	.0	4.7	1.8	NNW
CALM		3.5							3.5	
TOTAL		66.9	18.8	8.2	5.6	.6	.0	100.0	2.0	

100.0% DATA RECOVERED
45.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time

4/ 1/1994 - 4/30/1994
2000 - 600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.3	.3	.0	.0	.6	5.9	N
NNE	2	.6	.6	.9	.3	.0	.0	2.4	4.0	NNE
NE	3	1.8	1.2	2.1	.0	.0	.0	5.2	2.8	NE
ENE	4	.3	.9	.3	.0	.0	.0	1.5	2.2	ENE
E	5	1.8	.6	.3	.6	.0	.0	3.3	2.6	E
ESE	6	2.7	.9	.9	.3	.0	.0	4.8	2.2	ESE
SE	7	4.2	.9	.0	.0	.0	.0	5.2	1.2	SE
SSE	8	3.3	.3	.0	.0	.0	.0	3.6	1.2	SSE
S	9	8.8	1.5	.6	.0	.0	.0	10.9	1.5	S
SSW	10	6.7	3.0	1.5	1.2	.9	1.2	14.5	3.7	SSW
SW	11	10.3	2.4	.9	1.8	.0	.3	15.8	2.3	SW
WSW	12	9.1	3.0	1.2	.9	.0	.0	14.2	2.0	WSW
W	13	4.5	1.2	1.2	.0	.0	.0	7.0	1.9	W
WNW	14	2.4	1.5	.3	.0	.0	.0	4.2	1.8	WNW
NW	15	.9	2.1	.0	.0	.0	.0	3.0	2.3	NW
NNW	16	.0	1.8	.3	.0	.0	.0	2.1	2.8	NNW
CALM		1.5							1.5	
TOTAL		59.1	22.1	10.9	5.5	.9	1.5	100.0	2.3	

99.9% DATA RECOVERED
45.9% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time

5/ 1/1994 - 5/31/1994
2000 - 600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.0	.9	.6	.0	.0	.0	4.5	1.8	N
NNE	2	2.4	3.0	.6	.0	.0	.0	6.0	1.8	NNE
NE	3	3.3	2.1	.0	.3	.0	.0	5.7	1.7	NE
ENE	4	.9	2.1	.3	.3	.0	.0	3.6	2.4	ENE
E	5	1.5	.0	.0	.0	.0	.0	1.5	1.2	E
ESE	6	1.2	.9	.3	.0	.0	.0	2.4	1.8	ESE
SE	7	2.7	.6	.0	.0	.0	.0	3.3	1.3	SE
SSE	8	.9	.6	.3	.0	.0	.0	1.8	1.9	SSE
S	9	3.6	.9	.3	.0	.0	.0	4.8	1.5	S
SSW	10	5.1	2.1	1.2	2.4	.3	.0	11.2	3.2	SSW
SW	11	6.6	4.5	1.8	.6	.3	.0	13.9	2.3	SW
WSW	12	6.0	1.8	1.8	1.8	.6	.0	12.1	3.0	WSW
W	13	4.5	1.5	.6	.0	.0	.0	6.6	1.8	W
WNW	14	3.3	2.1	.9	.0	.0	.0	6.3	1.9	WNW
NW	15	5.4	2.1	1.2	.0	.0	.0	8.8	1.9	NW
NNW	16	3.3	2.4	.3	.0	.0	.0	6.0	1.8	NNW
CALM		1.2							1.2	
TOTAL		55.3	27.8	10.3	5.4	1.2	.0	100.0	2.1	

96.9% DATA RECOVERED
45.9% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time

6/ 1/1994 - 6/30/1994
2000 - 600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.6	.6	.0	.0	.0	.0	4.2	1.4	N
NNE	2	2.7	1.5	.0	.6	.0	.0	4.8	2.2	NNE
NE	3	3.6	5.2	.0	.0	.0	.0	8.8	1.7	NE
ENE	4	2.7	.6	.0	.0	.0	.0	3.3	1.4	ENE
E	5	2.4	.3	.0	.0	.0	.0	2.7	1.1	E
ESE	6	1.8	.9	.0	.0	.0	.0	2.7	1.5	ESE
SE	7	.6	.6	.3	.0	.0	.0	1.5	2.2	SE
SSE	8	1.5	.3	.0	.0	.0	.0	1.8	1.4	SSE
S	9	1.2	.9	.0	.0	.0	.0	2.1	1.7	S
SSW	10	3.9	1.2	.9	.3	.0	.0	6.4	1.9	SSW
SW	11	8.8	6.7	3.0	3.9	.3	.0	22.7	3.0	SW
WSW	12	8.2	2.4	2.4	2.4	.0	.0	15.5	2.6	WSW
W	13	3.9	.3	.9	.0	.0	.0	5.2	1.7	W
WNW	14	2.7	1.8	.9	.0	.0	.0	5.5	2.1	WNW
NW	15	5.5	.6	.3	.0	.0	.0	6.4	1.4	NW
NNW	16	2.7	.6	.0	.0	.0	.0	3.3	1.3	NNW
CALM		3.0							3.0	
TOTAL		59.1	24.5	8.8	7.3	.3	.0	100.0	2.1	

100.0% DATA RECOVERED
45.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time

7/ 1/1994 - 7/31/1994
2000 - 600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.7	.9	.0	.0	.0	.0	5.6	1.4	N
NNE	2	5.6	2.3	.6	.0	.0	.0	8.5	1.8	NNE
NE	3	4.4	5.9	1.2	.0	.0	.0	11.4	2.1	NE
ENE	4	2.3	3.5	.0	.0	.0	.0	5.9	1.9	ENE
E	5	1.8	.3	.0	.0	.0	.0	2.1	1.4	E
ESE	6	2.3	.6	.0	.0	.0	.0	2.9	1.3	ESE
SE	7	1.2	.6	.3	.6	.0	.0	2.6	3.2	SE
SSE	8	.9	.3	.0	.0	.0	.0	1.2	1.3	SSE
S	9	2.9	.0	.0	.0	.0	.0	2.9	1.2	S
SSW	10	4.7	1.2	.6	.3	.3	.0	7.0	2.1	SSW
SW	11	7.9	4.4	.9	.6	.0	.0	13.8	2.0	SW
WSW	12	7.9	1.2	1.2	.3	.0	.0	10.6	1.7	WSW
W	13	4.4	1.5	.0	.0	.0	.0	5.9	1.5	W
WNW	14	4.4	1.2	.0	.0	.0	.0	5.6	1.3	WNW
NW	15	2.9	1.8	.0	.0	.0	.0	4.7	1.6	NW
NNW	16	3.5	.6	.3	.0	.0	.0	4.4	1.4	NNW
CALM		5.0							5.0	
TOTAL		66.9	26.1	5.0	1.8	.3	.0	100.0	1.7	

100.0% DATA RECOVERED
45.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time

8/ 1/1994 - 8/31/1994
2000 - 600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.9	1.8	.6	.0	.0	.0	5.3	1.9	N
NNE	2	4.4	3.2	1.2	.3	.0	.0	9.1	2.2	NNE
NE	3	3.8	5.3	.0	.0	.0	.0	9.1	1.9	NE
ENE	4	2.9	1.8	.0	.0	.0	.0	4.7	1.7	ENE
E	5	2.6	1.2	.3	.0	.0	.0	4.1	1.7	E
ESE	6	1.5	.0	.3	.0	.0	.0	1.8	1.7	ESE
SE	7	1.2	.9	.3	.0	.0	.0	2.3	2.1	SE
SSE	8	2.1	.3	.3	.0	.0	.0	2.6	1.4	SSE
S	9	2.9	1.5	.3	.0	.0	.0	4.7	1.8	S
SSW	10	2.9	1.8	.3	.9	.0	.0	5.9	2.4	SSW
SW	11	4.7	2.3	.9	.0	.0	.0	7.9	1.9	SW
WSW	12	8.8	2.3	.3	.0	.0	.0	11.4	1.4	WSW
W	13	6.5	.6	.0	.0	.0	.0	7.0	1.3	W
WNW	14	2.6	1.5	.3	.0	.0	.0	4.4	1.7	WNW
NW	15	3.2	2.3	.6	.0	.0	.0	6.2	1.9	NW
NNW	16	5.9	2.3	.3	.0	.0	.0	8.5	1.7	NNW
CALM		5.0							5.0	
TOTAL		63.9	29.0	5.9	1.2	.0	.0	100.0	1.7	

100.0% DATA RECOVERED
45.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time

9/ 1/1994 - 9/30/1994
2000 - 600 (MST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	6.4	.3	.0	.0	.0	.0	6.7	1.1	N
NNE	2	4.0	1.5	.9	.6	.0	.0	7.0	2.2	NNE
NE	3	3.7	2.1	.6	.0	.0	.0	6.4	1.7	NE
ENE	4	2.1	.9	.0	.0	.0	.0	3.0	1.6	ENE
E	5	.9	.0	.0	.0	.0	.0	.9	.7	E
ESE	6	.9	.3	.0	.0	.0	.0	1.2	1.2	ESE
SE	7	.3	.3	.0	.0	.0	.0	.6	1.6	SE
SSE	8	.9	.0	.3	.0	.0	.0	1.2	1.9	SSE
S	9	2.1	.3	.3	.3	.0	.0	3.0	2.0	S
SSW	10	4.0	1.2	.6	3.4	.0	.0	9.1	3.7	SSW
SW	11	4.9	2.4	.6	.3	.0	.0	8.2	2.0	SW
WSW	12	3.4	.9	1.5	1.2	.0	.0	7.0	2.9	WSW
W	13	4.9	1.2	.3	.0	.0	.0	6.4	1.5	W
WNW	14	5.8	.9	.6	.0	.0	.0	7.3	1.3	WNW
NW	15	1.8	1.2	.0	.0	.0	.0	3.0	1.5	NW
NNW	16	2.4	.3	.3	.0	.0	.0	3.0	1.4	NNW
CALM		25.6							25.6	
TOTAL		74.1	14.0	6.1	5.8	.0	.0	100.0	1.5	

99.2% DATA RECOVERED
45.9% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time

10/ 1/1994 - 10/31/1994
2000 - 600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.9	.6	.6	.3	.0	.0	5.4	2.0	N
NNE	2	2.7	1.5	.6	.3	.3	.0	5.4	2.5	NNE
NE	3	1.5	.3	1.5	.3	.0	.0	3.6	2.9	NE
ENE	4	2.4	2.1	.0	.0	.0	.0	4.5	1.6	ENE
E	5	.6	.6	.0	.0	.0	.0	1.2	2.0	E
ESE	6	.0	.3	.0	.0	.0	.0	.3	2.2	ESE
SE	7	.3	.0	.0	.0	.0	.0	.3	.6	SE
SSE	8	.9	.0	.0	.0	.0	.0	.9	.9	SSE
S	9	1.2	.0	.0	.0	.0	.0	1.2	1.0	S
SSW	10	2.7	2.4	.3	1.8	.0	.0	7.3	3.1	SSW
SW	11	4.8	3.3	.6	1.8	.3	.0	10.9	2.7	SW
WSW	12	5.4	1.2	.3	.9	.0	.0	7.9	2.0	WSW
W	13	4.8	.9	.3	.0	.0	.0	6.0	1.4	W
WNW	14	4.8	.0	.3	.0	.0	.0	5.1	1.2	WNW
NW	15	2.7	.3	.0	.0	.0	.0	3.0	1.1	NW
NNW	16	3.3	.6	.6	.0	.0	.0	4.5	1.5	NNW
CALM		32.3							32.3	
TOTAL		74.6	14.2	5.1	5.4	.6	.0	100.0	1.4	

98.5% DATA RECOVERED
45.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time

11/ 1/1994 - 11/30/1994
2000 - 600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.2	1.2	.9	.0	.0	.0	7.3	1.6	N
NNE	2	3.6	2.1	1.8	.6	.3	.0	8.5	2.8	NNE
NE	3	1.8	1.8	.6	.0	.0	.0	4.3	2.2	NE
ENE	4	2.7	.0	.3	.3	.0	.0	3.3	1.8	ENE
E	5	3.6	.0	.3	.0	.0	.0	4.0	1.4	E
ESE	6	.9	.0	.0	.0	.0	.0	.9	1.1	ESE
SE	7	2.1	.9	.0	.0	.0	.0	3.0	1.3	SE
SSE	8	1.8	.0	.0	.0	.0	.0	1.8	.9	SSE
S	9	1.8	.6	.3	.0	.0	.0	2.7	1.7	S
SSW	10	3.3	1.2	.0	.0	1.2	.3	6.1	3.6	SSW
SW	11	7.3	4.9	.0	2.1	.6	.3	15.2	2.9	SW
WSW	12	6.7	2.1	1.5	1.2	.0	.0	11.6	2.3	WSW
W	13	4.9	1.2	.0	.0	.0	.0	6.1	1.3	W
WNW	14	4.9	1.2	.0	.0	.0	.0	6.1	1.6	WNW
NW	15	5.2	1.2	.9	.0	.0	.0	7.3	1.6	NW
NNW	16	4.0	1.8	.9	.3	.3	.0	7.3	2.4	NNW
CALM		4.6							4.6	
TOTAL		64.4	20.4	7.6	4.6	2.4	.6	100.0	2.1	

99.7% DATA RECOVERED
45.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time

12/ 1/1994 - 12/31/1994
2000 - 600 (MST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.1	1.4	.0	.0	.0	.0	5.4	1.4	N
NNE	2	4.1	1.8	1.4	.5	.0	.0	7.7	2.4	NNE
NE	3	1.4	1.4	4.1	.5	.0	.0	7.2	3.4	NE
ENE	4	2.3	3.2	.5	.5	.0	.0	6.3	2.3	ENE
E	5	1.4	.0	1.4	.0	.0	.0	2.7	2.6	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.9	.5	.0	.0	.0	.0	1.4	1.6	SE
SSE	8	3.2	.0	.0	.0	.0	.0	3.2	1.0	SSE
S	9	3.2	.0	.0	.5	.0	.0	3.6	1.8	S
SSW	10	7.2	1.4	.0	.0	.0	.0	8.6	1.4	SSW
SW	11	10.9	2.7	.0	.5	.0	.0	14.0	1.5	SW
WSW	12	8.6	.9	.0	.0	.0	.0	9.5	1.2	WSW
W	13	7.2	1.4	.0	.0	.0	.0	8.6	1.4	W
WNW	14	2.3	.9	.5	.0	.0	.0	3.6	1.8	WNW
NW	15	4.5	.5	.5	.0	.0	.0	5.4	1.7	NW
NNW	16	4.5	2.3	.9	.0	.0	.0	7.7	1.8	NNW
CALM		5.0							5.0	
TOTAL		70.6	18.1	9.0	2.3	.0	.0	100.0	1.7	

65.1% DATA RECOVERED
45.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 1/ 1/1994 - 1/31/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	2.0	2.0	.0	.0	.0	.0	4.0	1.7	NE
ENE	4	9.0	1.0	.0	.0	.0	.0	10.0	1.2	ENE
E	5	8.0	.0	.0	.0	.0	.0	8.0	.8	E
ESE	6	13.0	1.0	.0	.0	.0	.0	14.0	1.0	ESE
SE	7	3.0	.0	.0	.0	.0	.0	3.0	1.3	SE
SSE	8	9.0	1.0	.0	.0	.0	.0	10.0	.8	SSE
S	9	9.0	.0	.0	.0	.0	.0	9.0	1.0	S
SSW	10	6.0	.0	.0	.0	.0	.0	6.0	.8	SSW
SW	11	1.0	1.0	.0	.0	.0	.0	2.0	1.4	SW
WSW	12	5.0	.0	.0	.0	.0	.0	5.0	.7	WSW
W	13	1.0	.0	.0	.0	.0	.0	1.0	1.8	W
WNW	14	1.0	.0	.0	.0	.0	.0	1.0	.6	WNW
NW	15	1.0	.0	.0	.0	.0	.0	1.0	.5	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		26.0							26.0	
TOTAL		94.0	6.0	.0	.0	.0	.0	100.0	.7	

78.0% DATA RECOVERED
17.2% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

2/ 1/1994 - 2/28/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	4.8	.0	.0	.0	.0	.0	4.8	1.0	NNE
NE	3	9.5	.0	.0	.0	.0	.0	9.5	.9	NE
ENE	4	11.4	.0	.0	.0	.0	.0	11.4	1.0	ENE
E	5	10.5	.0	.0	.0	.0	.0	10.5	1.0	E
ESE	6	5.7	1.0	.0	.0	.0	.0	6.7	1.0	ESE
SE	7	5.7	.0	.0	.0	.0	.0	5.7	1.0	SE
SSE	8	1.9	1.0	.0	.0	.0	.0	2.9	1.2	SSE
S	9	8.6	.0	.0	.0	.0	.0	8.6	.8	S
SSW	10	6.7	1.9	.0	.0	.0	.0	8.6	1.2	SSW
SW	11	1.0	1.0	.0	.0	.0	.0	1.9	1.7	SW
WSW	12	1.9	1.0	.0	.0	.0	.0	2.9	1.4	WSW
W	13	3.8	.0	.0	.0	.0	.0	3.8	.9	W
WNW	14	1.9	.0	.0	.0	.0	.0	1.9	1.2	WNW
NW	15	4.8	1.0	.0	.0	.0	.0	5.7	1.1	NW
NNW	16	3.8	.0	.0	.0	.0	.0	3.8	.7	NNW
CALM		11.4							11.4	
TOTAL		93.3	6.7	.0	.0	.0	.0	100.0	.9	

85.4% DATA RECOVERED
18.3% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

3/ 1/1994 - 3/31/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.0	2.0	.0	.0	.0	.0	4.0	1.7	N
NNE	2	2.0	.0	.0	.0	.0	.0	2.0	.9	NNE
NE	3	8.0	3.3	.0	.0	.0	.0	11.3	1.4	NE
ENE	4	4.0	.0	.0	.0	.0	.0	4.0	1.1	ENE
E	5	5.3	2.7	.0	.0	.0	.0	8.0	1.6	E
ESE	6	4.7	1.3	.0	.0	.0	.0	6.0	1.2	ESE
SE	7	6.0	1.3	.0	.0	.0	.0	7.3	1.4	SE
SSE	8	4.7	2.0	.0	.0	.0	.0	6.7	1.5	SSE
S	9	4.7	2.7	.0	.0	.0	.0	7.3	1.6	S
SSW	10	6.7	2.0	.0	.0	.0	.0	8.7	1.4	SSW
SW	11	3.3	2.7	.0	.0	.0	.0	6.0	1.8	SW
WSW	12	5.3	.7	.0	.0	.0	.0	6.0	1.3	WSW
W	13	1.3	.7	.0	.0	.0	.0	2.0	1.6	W
WNW	14	3.3	.0	.0	.0	.0	.0	3.3	1.1	WNW
NW	15	1.3	.0	.0	.0	.0	.0	1.3	1.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		16.0							16.0	
TOTAL		78.7	21.3	.0	.0	.0	.0	100.0	1.2	

100.0% DATA RECOVERED
20.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	
1	WS <= .5
2	.5< WS <= 1.8
3	1.8< WS <= 3.3
4	3.3< WS <= 5.4
5	5.4< WS <= 8.5
6	8.5< WS <=10.8
	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

4/ 1/1994 - 4/30/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	1.4	.7	.0	.0	.0	.0	2.1	1.4	NE
ENE	4	.7	.0	.0	.0	.0	.0	.7	1.1	ENE
E	5	4.9	2.1	.0	.0	.0	.0	6.9	1.5	E
ESE	6	6.3	3.5	.0	.0	.0	.0	9.7	1.5	ESE
SE	7	4.9	6.9	.0	.0	.0	.0	11.8	1.7	SE
SSE	8	7.6	4.2	.0	.0	.0	.0	11.8	1.4	SSE
S	9	9.0	5.6	.0	.0	.0	.0	14.6	1.5	S
SSW	10	9.0	6.3	.0	.0	.0	.0	15.3	1.6	SSW
SW	11	2.8	2.8	.0	.0	.0	.0	5.6	1.8	SW
WSW	12	3.5	2.1	.0	.0	.0	.0	5.6	1.7	WSW
W	13	4.2	.7	.0	.0	.0	.0	4.9	1.1	W
WNW	14	.7	.7	.0	.0	.0	.0	1.4	1.9	WNW
NW	15	.7	.0	.0	.0	.0	.0	.7	.7	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		9.0							9.0	
TOTAL		64.6	35.4	.0	.0	.0	.0	100.0	1.4	

99.9% DATA RECOVERED
20.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

5/ 1/1994 - 5/31/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.2	.6	.0	.0	.0	.0	5.8	1.2	N
NNE	2	4.1	1.2	.0	.0	.0	.0	5.2	1.2	NNE
NE	3	6.4	.6	.0	.0	.0	.0	7.0	1.0	NE
ENE	4	1.7	1.7	.0	.0	.0	.0	3.5	1.5	ENE
E	5	2.9	1.2	.0	.0	.0	.0	4.1	1.6	E
ESE	6	2.9	3.5	.0	.0	.0	.0	6.4	1.7	ESE
SE	7	5.8	1.7	.0	.0	.0	.0	7.6	1.3	SE
SSE	8	2.3	2.3	.0	.0	.0	.0	4.7	1.6	SSE
S	9	4.1	3.5	.0	.0	.0	.0	7.6	1.5	S
SSW	10	4.1	4.7	.0	.0	.0	.0	8.7	1.7	SSW
SW	11	5.8	4.1	.0	.0	.0	.0	9.9	1.6	SW
WSW	12	2.3	2.3	.0	.0	.0	.0	4.7	1.5	WSW
W	13	2.9	.6	.0	.0	.0	.0	3.5	1.0	W
WNW	14	6.4	.6	.0	.0	.0	.0	7.0	1.2	WNW
NW	15	4.1	.6	.0	.0	.0	.0	4.7	1.1	NW
NNW	16	.6	1.2	.0	.0	.0	.0	1.7	2.2	NNW
CALM		8.1							8.1	
TOTAL		69.8	30.2	.0	.0	.0	.0	100.0	1.3	

96.9% DATA RECOVERED
23.9% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 6/ 1/1994 - 6/30/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.2	1.4	.0	.0	.0	.0	3.6	1.5	N
NNE	2	2.9	.0	.0	.0	.0	.0	2.9	1.4	NNE
NE	3	8.0	.0	.0	.0	.0	.0	8.0	.8	NE
ENE	4	12.3	1.4	.0	.0	.0	.0	13.8	1.1	ENE
E	5	3.6	2.9	.0	.0	.0	.0	6.5	1.4	E
ESE	6	5.1	2.2	.0	.0	.0	.0	7.2	1.4	ESE
SE	7	2.9	2.2	.0	.0	.0	.0	5.1	1.6	SE
SSE	8	3.6	2.2	.0	.0	.0	.0	5.8	1.3	SSE
S	9	2.2	2.2	.0	.0	.0	.0	4.3	1.9	S
SSW	10	4.3	2.9	.0	.0	.0	.0	7.2	1.7	SSW
SW	11	4.3	3.6	.0	.0	.0	.0	8.0	1.6	SW
WSW	12	2.9	2.2	.0	.0	.0	.0	5.1	1.6	WSW
W	13	.7	.0	.0	.0	.0	.0	.7	.7	W
WNW	14	.7	.0	.0	.0	.0	.0	.7	1.4	WNW
NW	15	2.9	.0	.0	.0	.0	.0	2.9	.9	NW
NNW	16	1.4	.0	.0	.0	.0	.0	1.4	1.3	NNW
CALM		16.7							16.7	
TOTAL		76.8	23.2	.0	.0	.0	.0	100.0	1.1	

100.0% DATA RECOVERED
19.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

7/ 1/1994 - 7/31/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.9	1.2	.0	.0	.0	.0	4.1	1.4	N
NNE	2	2.9	.6	.0	.0	.0	.0	3.5	1.2	NNE
NE	3	2.9	1.2	.0	.0	.0	.0	4.1	1.4	NE
ENE	4	5.2	1.7	.0	.0	.0	.0	7.0	1.4	ENE
E	5	7.6	1.2	.0	.0	.0	.0	8.7	1.2	E
ESE	6	1.7	.0	.0	.0	.0	.0	1.7	1.2	ESE
SE	7	4.1	3.5	.0	.0	.0	.0	7.6	1.6	SE
SSE	8	2.3	1.2	.0	.0	.0	.0	3.5	1.5	SSE
S	9	4.7	4.1	.0	.0	.0	.0	8.7	1.8	S
SSW	10	4.7	3.5	.0	.0	.0	.0	8.1	1.7	SSW
SW	11	2.3	2.9	.0	.0	.0	.0	5.2	1.9	SW
WSW	12	3.5	1.2	.0	.0	.0	.0	4.7	1.2	WSW
W	13	2.9	.0	.0	.0	.0	.0	2.9	.9	W
WNW	14	3.5	.0	.0	.0	.0	.0	3.5	.9	WNW
NW	15	1.7	.6	.0	.0	.0	.0	2.3	1.3	NW
NNW	16	2.3	1.2	.0	.0	.0	.0	3.5	1.3	NNW
CALM		20.9							20.9	
TOTAL		76.2	23.8	.0	.0	.0	.0	100.0	1.1	

100.0% DATA RECOVERED
23.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 8/ 1/1994 - 8/31/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

W I N D S P E E D C L A S S

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.6	1.6	.0	.0	.0	.0	3.1	1.8	N
NNE	2	3.1	1.6	.0	.0	.0	.0	4.7	1.3	NNE
NE	3	9.3	.8	.0	.0	.0	.0	10.1	1.2	NE
ENE	4	5.4	3.9	.0	.0	.0	.0	9.3	1.6	ENE
E	5	4.7	.8	.0	.0	.0	.0	5.4	1.2	E
ESE	6	5.4	.0	.0	.0	.0	.0	5.4	1.0	ESE
SE	7	7.0	.8	.0	.0	.0	.0	7.8	1.1	SE
SSE	8	2.3	.0	.0	.0	.0	.0	2.3	1.2	SSE
S	9	2.3	3.1	.0	.0	.0	.0	5.4	1.7	S
SSW	10	3.9	.0	.0	.0	.0	.0	3.9	1.0	SSW
SW	11	6.2	.8	.0	.0	.0	.0	7.0	1.1	SW
WSW	12	5.4	.8	.0	.0	.0	.0	6.2	1.1	WSW
W	13	2.3	.0	.0	.0	.0	.0	2.3	.7	W
WNW	14	1.6	1.6	.0	.0	.0	.0	3.1	1.4	WNW
NW	15	2.3	.0	.0	.0	.0	.0	2.3	.9	NW
NNW	16	3.1	.0	.0	.0	.0	.0	3.1	1.2	NNW
CALM		18.6							18.6	
TOTAL		84.5	15.5	.0	.0	.0	.0	100.0	1.0	

100.0% DATA RECOVERED
17.3% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

9/ 1/1994 - 9/30/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.3	.0	.0	.0	.0	.0	2.3	.9	N
NNE	2	2.3	.8	.0	.0	.0	.0	3.1	1.6	NNE
NE	3	7.6	1.5	.0	.0	.0	.0	9.2	1.4	NE
ENE	4	8.4	.0	.0	.0	.0	.0	8.4	1.1	ENE
E	5	5.3	1.5	.0	.0	.0	.0	6.9	1.3	E
ESE	6	3.1	5.3	.0	.0	.0	.0	8.4	1.8	ESE
SE	7	4.6	1.5	.0	.0	.0	.0	6.1	1.5	SE
SSE	8	3.8	2.3	.0	.0	.0	.0	6.1	1.7	SSE
S	9	1.5	1.5	.0	.0	.0	.0	3.1	1.6	S
SSW	10	3.1	3.8	.0	.0	.0	.0	6.9	1.6	SSW
SW	11	3.1	2.3	.0	.0	.0	.0	5.3	1.7	SW
WSW	12	.8	1.5	.0	.0	.0	.0	2.3	2.0	WSW
W	13	1.5	.8	.0	.0	.0	.0	2.3	1.1	W
WNW	14	1.5	.0	.0	.0	.0	.0	1.5	.9	WNW
NW	15	.0	1.5	.0	.0	.0	.0	1.5	2.0	NW
NNW	16	1.5	1.5	.0	.0	.0	.0	3.1	1.3	NNW
CALM		23.7							23.7	
TOTAL		74.0	26.0	.0	.0	.0	.0	100.0	1.1	

99.2% DATA RECOVERED
18.3% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

10/ 1/1994 - 10/31/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.6	.0	.0	.0	.0	.0	1.6	1.4	N
NNE	2	6.5	1.6	.0	.0	.0	.0	8.1	1.5	NNE
NE	3	3.2	.8	.0	.0	.0	.0	4.0	1.5	NE
ENE	4	1.6	1.6	.0	.0	.0	.0	3.2	1.4	ENE
E	5	4.8	.8	.0	.0	.0	.0	5.6	1.3	E
ESE	6	5.6	.0	.0	.0	.0	.0	5.6	1.1	ESE
SE	7	3.2	.8	.0	.0	.0	.0	4.0	1.4	SE
SSE	8	12.9	.0	.0	.0	.0	.0	12.9	1.0	SSE
S	9	9.7	2.4	.0	.0	.0	.0	12.1	1.4	S
SSW	10	6.5	1.6	.0	.0	.0	.0	8.1	1.3	SSW
SW	11	3.2	.8	.0	.0	.0	.0	4.0	1.6	SW
WSW	12	5.6	.8	.0	.0	.0	.0	6.5	1.5	WSW
W	13	1.6	.0	.0	.0	.0	.0	1.6	1.4	W
WNW	14	.8	.0	.0	.0	.0	.0	.8	1.6	WNW
NW	15	1.6	.8	.0	.0	.0	.0	2.4	1.6	NW
NNW	16	2.4	.0	.0	.0	.0	.0	2.4	.9	NNW
CALM		16.9							16.9	
TOTAL		87.9	12.1	.0	.0	.0	.0	100.0	1.1	

98.5% DATA RECOVERED
16.9% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

11/ 1/1994 - 11/30/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.8	.0	.0	.0	.0	.0	4.8	.8	N
NNE	2	5.8	.0	.0	.0	.0	.0	5.8	1.0	NNE
NE	3	6.7	.0	.0	.0	.0	.0	6.7	1.2	NE
ENE	4	3.8	1.0	.0	.0	.0	.0	4.8	1.1	ENE
E	5	13.5	1.0	.0	.0	.0	.0	14.4	1.1	E
ESE	6	5.8	1.0	.0	.0	.0	.0	6.7	1.3	ESE
SE	7	4.8	1.9	.0	.0	.0	.0	6.7	1.3	SE
SSE	8	2.9	1.0	.0	.0	.0	.0	3.8	1.5	SSE
S	9	1.9	1.9	.0	.0	.0	.0	3.8	1.5	S
SSW	10	2.9	1.0	.0	.0	.0	.0	3.8	1.5	SSW
SW	11	7.7	1.0	.0	.0	.0	.0	8.7	1.1	SW
WSW	12	3.8	.0	.0	.0	.0	.0	3.8	.7	WSW
W	13	1.9	.0	.0	.0	.0	.0	1.9	1.3	W
WNW	14	3.8	.0	.0	.0	.0	.0	3.8	.9	WNW
NW	15	1.9	.0	.0	.0	.0	.0	1.9	1.3	NW
NNW	16	1.0	.0	.0	.0	.0	.0	1.0	1.3	NNW
CALM		17.3							17.3	
TOTAL		90.4	9.6	.0	.0	.0	.0	100.0	1.0	

99.7% DATA RECOVERED
14.5% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

12/ 1/1994 - 12/31/1994
0 - 2300 (MST)

STABILITY CLASS A
0.5 - 1.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.8	.0	.0	.0	.0	.0	4.8	1.0	N
NNE	2	6.0	2.4	.0	.0	.0	.0	8.3	1.3	NNE
NE	3	1.2	1.2	.0	.0	.0	.0	2.4	2.0	NE
ENE	4	13.1	.0	.0	.0	.0	.0	13.1	.9	ENE
E	5	7.1	.0	.0	.0	.0	.0	7.1	.9	E
ESE	6	7.1	2.4	.0	.0	.0	.0	9.5	1.6	ESE
SE	7	6.0	.0	.0	.0	.0	.0	6.0	1.0	SE
SSE	8	1.2	.0	.0	.0	.0	.0	1.2	.5	SSE
S	9	6.0	.0	.0	.0	.0	.0	6.0	1.1	S
SSW	10	2.4	.0	.0	.0	.0	.0	2.4	1.0	SSW
SW	11	3.6	1.2	.0	.0	.0	.0	4.8	1.6	SW
WSW	12	3.6	.0	.0	.0	.0	.0	3.6	1.0	WSW
W	13	6.0	.0	.0	.0	.0	.0	6.0	1.0	W
WNW	14	2.4	.0	.0	.0	.0	.0	2.4	1.4	WNW
NW	15	3.6	1.2	.0	.0	.0	.0	4.8	1.2	NW
NNW	16	3.6	.0	.0	.0	.0	.0	3.6	.7	NNW
CALM		14.3							14.3	
TOTAL		91.7	8.3	.0	.0	.0	.0	100.0	1.0	

65.1% DATA RECOVERED
17.4% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

1/ 1/1994 - 1/31/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	2.9	5.7	.0	2.9	.0	.0	11.4	3.4	NE
ENE	4	2.9	.0	.0	.0	.0	.0	2.9	.8	ENE
E	5	5.7	2.9	.0	.0	.0	.0	8.6	1.1	E
ESE	6	2.9	.0	.0	.0	.0	.0	2.9	1.0	ESE
SE	7	8.6	.0	.0	.0	.0	.0	8.6	1.1	SE
SSE	8	5.7	.0	.0	.0	.0	.0	5.7	1.1	SSE
S	9	11.4	.0	5.7	.0	.0	.0	17.1	1.8	S
SSW	10	5.7	.0	.0	.0	.0	.0	5.7	.8	SSW
SW	11	5.7	.0	.0	2.9	.0	.0	8.6	2.4	SW
WSW	12	2.9	.0	.0	.0	.0	.0	2.9	1.3	WSW
W	13	2.9	.0	2.9	.0	.0	.0	5.7	2.4	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	2.9	.0	.0	.0	.0	.0	2.9	1.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		17.1							17.1	
TOTAL		77.1	8.6	8.6	5.7	.0	.0	100.0	1.5	

78.0% DATA RECOVERED
6.0% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

2/ 1/1994 - 2/28/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	3.4	.0	3.4	.0	6.9	6.9	N
NNE	2	.0	.0	3.4	.0	.0	.0	3.4	3.7	NNE
NE	3	6.9	.0	.0	.0	.0	.0	6.9	1.0	NE
ENE	4	3.4	.0	.0	.0	.0	.0	3.4	.8	ENE
E	5	3.4	.0	.0	.0	.0	.0	3.4	1.1	E
ESE	6	3.4	3.4	.0	.0	.0	.0	6.9	1.5	ESE
SE	7	.0	.0	3.4	.0	.0	.0	3.4	3.8	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	3.4	.0	.0	.0	.0	3.4	2.2	S
SSW	10	6.9	3.4	3.4	.0	.0	.0	13.8	2.2	SSW
SW	11	10.3	.0	6.9	.0	.0	.0	17.2	2.3	SW
WSW	12	6.9	.0	.0	.0	.0	.0	6.9	1.0	WSW
W	13	3.4	.0	.0	.0	.0	.0	3.4	1.2	W
WNW	14	3.4	.0	.0	3.4	.0	.0	6.9	3.7	WNW
NW	15	3.4	.0	.0	3.4	.0	.0	6.9	4.8	NW
NNW	16	.0	.0	3.4	.0	.0	.0	3.4	4.1	NNW
CALM		3.4							3.4	
TOTAL		55.2	10.3	24.1	6.9	3.4	.0	100.0	2.6	

85.4% DATA RECOVERED
5.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

3/ 1/1994 - 3/31/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	2.8	.0	.0	.0	2.8	3.9	N
NNE	2	2.8	5.6	2.8	.0	.0	.0	11.1	2.8	NNE
NE	3	.0	2.8	8.3	.0	.0	.0	11.1	3.7	NE
ENE	4	.0	2.8	2.8	.0	.0	.0	5.6	3.4	ENE
E	5	8.3	5.6	5.6	.0	.0	.0	19.4	2.3	E
ESE	6	.0	2.8	.0	.0	.0	.0	2.8	3.0	ESE
SE	7	.0	2.8	.0	.0	.0	.0	2.8	3.0	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	5.6	2.8	.0	.0	.0	.0	8.3	1.7	S
SSW	10	5.6	2.8	2.8	8.3	.0	.0	19.4	4.0	SSW
SW	11	.0	.0	8.3	.0	.0	.0	8.3	4.6	SW
WSW	12	5.6	.0	.0	.0	.0	.0	5.6	.8	WSW
W	13	2.8	.0	.0	.0	.0	.0	2.8	1.8	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0							.0	
TOTAL		30.6	27.8	33.3	8.3	.0	.0	100.0	3.0	

100.0% DATA RECOVERED
4.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 4/ 1/1994 - 4/30/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	3.4	1.7	.0	.0	5.2	4.5	NNE
NE	3	.0	.0	3.4	.0	.0	.0	3.4	3.6	NE
ENE	4	1.7	.0	.0	.0	.0	.0	1.7	1.4	ENE
E	5	1.7	1.7	1.7	.0	.0	.0	5.2	2.8	E
ESE	6	.0	1.7	1.7	.0	.0	.0	3.4	3.4	ESE
SE	7	.0	3.4	3.4	1.7	.0	.0	8.6	4.0	SE
SSE	8	1.7	1.7	1.7	1.7	.0	.0	6.9	3.3	SSE
S	9	3.4	3.4	.0	1.7	.0	.0	8.6	2.8	S
SSW	10	1.7	1.7	5.2	.0	.0	.0	8.6	3.1	SSW
SW	11	6.9	3.4	15.5	.0	.0	.0	25.9	3.1	SW
WSW	12	1.7	1.7	10.3	.0	.0	.0	13.8	3.5	WSW
W	13	1.7	.0	3.4	.0	.0	.0	5.2	2.8	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	1.7	.0	.0	1.7	6.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		1.7							1.7	
TOTAL		22.4	19.0	50.0	8.6	.0	.0	100.0	3.2	

99.9% DATA RECOVERED
8.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

5/ 1/1994 - 5/31/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	1.8	.0	.0	.0	.0	1.8	3.0	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	1.8	.0	.0	.0	.0	.0	1.8	1.7	NE
ENE	4	.0	1.8	.0	.0	.0	.0	1.8	2.4	ENE
E	5	.0	.0	1.8	1.8	.0	.0	3.5	4.8	E
ESE	6	3.5	.0	.0	.0	.0	.0	3.5	1.1	ESE
SE	7	.0	.0	1.8	.0	.0	.0	1.8	3.5	SE
SSE	8	.0	1.8	3.5	.0	.0	.0	5.3	3.8	SSE
S	9	.0	1.8	10.5	.0	.0	.0	12.3	4.2	S
SSW	10	.0	5.3	8.8	1.8	.0	.0	15.8	3.9	SSW
SW	11	3.5	7.0	28.1	3.5	.0	.0	42.1	3.9	SW
WSW	12	.0	1.8	5.3	.0	.0	.0	7.0	4.2	WSW
W	13	.0	1.8	.0	.0	.0	.0	1.8	3.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	1.8	.0	.0	.0	.0	.0	1.8	1.1	NNW
CALM		.0							.0	
TOTAL		10.5	22.8	59.6	7.0	.0	.0	100.0	3.7	

96.9% DATA RECOVERED
7.9% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

6/ 1/1994 - 6/30/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	7.1	.0	2.4	.0	.0	.0	9.5	1.6	NE
ENE	4	2.4	.0	.0	.0	.0	.0	2.4	.6	ENE
E	5	7.1	2.4	.0	.0	.0	.0	9.5	1.6	E
ESE	6	.0	2.4	.0	.0	.0	.0	2.4	3.0	ESE
SE	7	.0	2.4	.0	.0	.0	.0	2.4	2.8	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	.0	7.1	.0	.0	.0	7.1	3.8	S
SSW	10	2.4	2.4	14.3	2.4	.0	.0	21.4	4.1	SSW
SW	11	2.4	.0	16.7	4.8	.0	.0	23.8	4.2	SW
WSW	12	4.8	2.4	7.1	2.4	.0	.0	16.7	3.1	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	2.4	.0	.0	.0	.0	2.4	3.0	WNW
NW	15	2.4	.0	.0	.0	.0	.0	2.4	1.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0							.0	
TOTAL		28.6	14.3	47.6	9.5	.0	.0	100.0	3.2	

100.0% DATA RECOVERED
5.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

7/ 1/1994 - 7/31/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	1.5	.0	.0	.0	1.5	5.2	N
NNE	2	.0	.0	1.5	.0	.0	.0	1.5	3.6	NNE
NE	3	2.9	2.9	.0	.0	.0	.0	5.9	1.9	NE
ENE	4	4.4	1.5	1.5	.0	.0	.0	7.4	2.1	ENE
E	5	.0	1.5	.0	.0	.0	.0	1.5	3.3	E
ESE	6	.0	.0	1.5	.0	.0	.0	1.5	3.9	ESE
SE	7	.0	1.5	5.9	.0	.0	.0	7.4	4.0	SE
SSE	8	2.9	.0	2.9	.0	.0	.0	5.9	2.6	SSE
S	9	.0	1.5	2.9	.0	.0	.0	4.4	3.7	S
SSW	10	.0	1.5	16.2	1.5	.0	.0	19.1	4.3	SSW
SW	11	2.9	5.9	26.5	1.5	.0	.0	36.8	4.0	SW
WSW	12	2.9	.0	2.9	.0	.0	.0	5.9	2.8	WSW
W	13	.0	.0	1.5	.0	.0	.0	1.5	4.3	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0							.0	
TOTAL		16.2	16.2	64.7	2.9	.0	.0	100.0	3.6	

100.0% DATA RECOVERED
9.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 8/ 1/1994 - 8/31/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	1.6	.0	.0	.0	1.6	4.4	NNE
NE	3	4.9	.0	.0	.0	.0	.0	4.9	1.2	NE
ENE	4	1.6	.0	.0	.0	.0	.0	1.6	.7	ENE
E	5	3.3	.0	.0	.0	.0	.0	3.3	1.1	E
ESE	6	.0	1.6	.0	.0	.0	.0	1.6	3.0	ESE
SE	7	1.6	1.6	4.9	.0	.0	.0	8.2	2.9	SE
SSE	8	.0	1.6	3.3	.0	.0	.0	4.9	4.0	SSE
S	9	.0	3.3	4.9	.0	.0	.0	8.2	3.6	S
SSW	10	1.6	6.6	16.4	4.9	.0	.0	29.5	4.1	SSW
SW	11	1.6	1.6	21.3	.0	.0	.0	24.6	4.2	SW
WSW	12	1.6	.0	3.3	1.6	.0	.0	6.6	4.1	WSW
W	13	.0	.0	1.6	.0	.0	.0	1.6	3.6	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	1.6	.0	1.6	.0	.0	.0	3.3	2.4	NNW
CALM		.0							.0	
TOTAL		18.0	16.4	59.0	6.6	.0	.0	100.0	3.6	

100.0% DATA RECOVERED
8.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

9/ 1/1994 - 9/30/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.7	.0	2.7	.0	.0	.0	5.4	3.0	N
NNE	2	5.4	.0	.0	.0	.0	.0	5.4	.8	NNE
NE	3	.0	.0	2.7	.0	.0	.0	2.7	4.3	NE
ENE	4	.0	2.7	.0	.0	.0	.0	2.7	2.0	ENE
E	5	.0	2.7	.0	.0	.0	.0	2.7	3.1	E
ESE	6	2.7	.0	2.7	.0	.0	.0	5.4	2.4	ESE
SE	7	2.7	.0	.0	.0	.0	.0	2.7	.8	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	2.7	.0	.0	.0	.0	.0	2.7	1.6	S
SSW	10	.0	.0	10.8	2.7	.0	.0	13.5	4.6	SSW
SW	11	2.7	2.7	10.8	5.4	.0	.0	21.6	4.3	SW
WSW	12	.0	.0	10.8	.0	.0	.0	10.8	3.6	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	2.7	.0	.0	.0	2.7	4.6	NNW
CALM		21.6							21.6	
TOTAL		40.5	8.1	43.2	8.1	.0	.0	100.0	2.7	

99.2% DATA RECOVERED
5.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 10/ 1/1994 - 10/31/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	2.6	.0	.0	.0	2.6	3.9	N
NNE	2	.0	7.9	7.9	.0	.0	.0	15.8	3.4	NNE
NE	3	.0	.0	2.6	.0	.0	.0	2.6	3.7	NE
ENE	4	2.6	5.3	.0	.0	.0	.0	7.9	2.2	ENE
E	5	2.6	.0	.0	.0	.0	.0	2.6	1.1	E
ESE	6	2.6	.0	.0	.0	.0	.0	2.6	.8	ESE
SE	7	2.6	2.6	.0	.0	.0	.0	5.3	2.0	SE
SSE	8	.0	2.6	.0	.0	.0	.0	2.6	2.4	SSE
S	9	2.6	.0	.0	.0	.0	.0	2.6	1.0	S
SSW	10	5.3	.0	5.3	2.6	.0	.0	13.2	3.3	SSW
SW	11	2.6	2.6	5.3	.0	.0	.0	10.5	2.4	SW
WSW	12	.0	2.6	5.3	.0	.0	.0	7.9	3.0	WSW
W	13	2.6	.0	.0	.0	.0	.0	2.6	.9	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	2.6	.0	.0	.0	.0	2.6	1.8	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		18.4							18.4	
TOTAL		42.1	26.3	28.9	2.6	.0	.0	100.0	2.1	

98.5% DATA RECOVERED
5.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	
1	WS <= .5
2	.5< WS <= 1.8
3	1.8< WS <= 3.3
4	3.3< WS <= 5.4
5	5.4< WS <= 8.5
6	8.5< WS <=10.8
	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

11/ 1/1994 - 11/30/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	2.3	.0	2.3	2.3	.0	.0	7.0	4.2	NNE
NE	3	7.0	4.7	.0	.0	.0	.0	11.6	1.7	NE
ENE	4	.0	.0	2.3	.0	.0	.0	2.3	3.9	ENE
E	5	4.7	.0	.0	.0	.0	.0	4.7	1.1	E
ESE	6	9.3	.0	2.3	.0	.0	.0	11.6	1.4	ESE
SE	7	9.3	.0	2.3	.0	.0	.0	11.6	1.3	SE
SSE	8	2.3	.0	.0	.0	.0	.0	2.3	.7	SSE
S	9	2.3	.0	2.3	.0	.0	.0	4.7	2.5	S
SSW	10	2.3	2.3	2.3	2.3	.0	.0	9.3	3.3	SSW
SW	11	.0	2.3	7.0	2.3	.0	.0	11.6	4.2	SW
WSW	12	7.0	.0	2.3	.0	.0	.0	9.3	2.0	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	.0	4.7	.0	.0	4.7	6.2	WNW
NW	15	2.3	.0	.0	.0	.0	.0	2.3	.6	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		7.0							7.0	
TOTAL		55.8	9.3	23.3	11.6	.0	.0	100.0	2.4	

99.7% DATA RECOVERED
6.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 12/ 1/1994 - 12/31/1994
0 - 2300 (MST)

STABILITY CLASS B
1.5 - 2.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.0	.0	.0	.0	.0	.0	4.0	.6	N
NNE	2	4.0	4.0	.0	.0	.0	.0	8.0	2.1	NNE
NE	3	4.0	4.0	8.0	.0	.0	.0	16.0	3.0	NE
ENE	4	4.0	4.0	.0	.0	.0	.0	8.0	2.3	ENE
E	5	12.0	.0	.0	.0	.0	.0	12.0	1.1	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	4.0	4.0	.0	.0	.0	.0	8.0	2.0	SE
SSE	8	4.0	.0	.0	.0	.0	.0	4.0	1.2	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	4.0	.0	.0	.0	.0	.0	4.0	.7	SSW
SW	11	8.0	.0	.0	.0	.0	.0	8.0	.9	SW
WSW	12	.0	.0	.0	.0	.0	.0	.0	.0	WSW
W	13	4.0	.0	.0	.0	.0	.0	4.0	.9	W
WNW	14	.0	.0	4.0	.0	.0	.0	4.0	3.4	WNW
NW	15	8.0	.0	.0	.0	.0	.0	8.0	1.3	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		12.0							12.0	
TOTAL		72.0	16.0	12.0	.0	.0	.0	100.0	1.6	

65.1% DATA RECOVERED
5.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

1/ 1/1994 - 1/31/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	4.0	.0	.0	.0	4.0	4.4	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	20.0	4.0	.0	.0	.0	.0	24.0	1.3	ENE
E	5	4.0	4.0	.0	.0	.0	.0	8.0	1.4	E
ESE	6	12.0	.0	.0	.0	.0	.0	12.0	1.0	ESE
SE	7	4.0	4.0	.0	.0	.0	.0	8.0	1.8	SE
SSE	8	8.0	.0	.0	.0	.0	.0	8.0	1.1	SSE
S	9	12.0	.0	8.0	.0	.0	.0	20.0	2.2	S
SSW	10	12.0	.0	.0	.0	.0	.0	12.0	.9	SSW
SW	11	.0	.0	.0	.0	.0	.0	.0	.0	SW
WSW	12	.0	.0	.0	.0	.0	.0	.0	.0	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		4.0							4.0	
TOTAL		76.0	12.0	12.0	.0	.0	.0	100.0	1.5	

78.0% DATA RECOVERED
4.3% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

2/ 1/1994 - 2/28/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	8.8	.0	.0	.0	8.8	4.6	N
NNE	2	.0	.0	11.8	2.9	.0	.0	14.7	5.0	NNE
NE	3	.0	5.9	2.9	.0	.0	.0	8.8	3.5	NE
ENE	4	.0	5.9	.0	.0	.0	.0	5.9	2.2	ENE
E	5	5.9	.0	.0	.0	.0	.0	5.9	1.3	E
ESE	6	2.9	.0	.0	.0	.0	.0	2.9	1.2	ESE
SE	7	.0	8.8	.0	.0	.0	.0	8.8	2.2	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	.0	2.9	.0	.0	.0	2.9	4.4	S
SSW	10	11.8	.0	2.9	.0	.0	.0	14.7	1.7	SSW
SW	11	2.9	.0	2.9	.0	.0	.0	5.9	2.4	SW
WSW	12	.0	.0	.0	.0	.0	.0	.0	.0	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	2.9	2.9	.0	2.9	.0	.0	8.8	2.8	WNW
NW	15	.0	.0	.0	.0	2.9	.0	2.9	8.8	NW
NNW	16	.0	.0	.0	.0	5.9	.0	5.9	8.6	NNW
CALM		2.9							2.9	
TOTAL		29.4	23.5	32.4	5.9	8.8	.0	100.0	3.4	

85.4% DATA RECOVERED
5.9% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 3/ 1/1994 - 3/31/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	.0	13.0	.0	.0	13.0	6.2	NNE
NE	3	.0	4.3	13.0	.0	.0	.0	17.4	4.1	NE
ENE	4	.0	.0	13.0	.0	.0	.0	13.0	4.1	ENE
E	5	.0	.0	13.0	.0	.0	.0	13.0	4.1	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	13.0	.0	.0	.0	.0	.0	13.0	1.5	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	4.3	.0	.0	.0	.0	4.3	2.6	S
SSW	10	4.3	.0	.0	.0	.0	.0	4.3	.9	SSW
SW	11	.0	.0	17.4	4.3	.0	.0	21.7	4.8	SW
WSW	12	.0	.0	.0	.0	.0	.0	.0	.0	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0							.0	
TOTAL		17.4	8.7	56.5	17.4	.0	.0	100.0	4.0	

100.0% DATA RECOVERED
3.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

4/ 1/1994 - 4/30/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	2.1	.0	.0	.0	2.1	4.6	NNE
NE	3	.0	.0	2.1	.0	.0	.0	2.1	4.3	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	4.2	.0	2.1	.0	.0	.0	6.3	2.3	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	4.2	4.2	.0	.0	.0	.0	8.3	2.1	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	2.1	.0	4.2	2.1	.0	.0	8.3	4.2	S
SSW	10	2.1	.0	14.6	.0	.0	.0	16.7	3.7	SSW
SW	11	2.1	4.2	14.6	10.4	.0	.0	31.3	4.4	SW
WSW	12	.0	.0	10.4	4.2	.0	.0	14.6	4.8	WSW
W	13	.0	2.1	4.2	2.1	.0	.0	8.3	4.4	W
WNW	14	.0	.0	.0	2.1	.0	.0	2.1	7.5	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0							.0	
TOTAL		14.6	10.4	54.2	20.8	.0	.0	100.0	4.1	

99.9% DATA RECOVERED
6.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

5/ 1/1994 - 5/31/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	7.7	.0	.0	.0	7.7	4.5	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	2.6	2.6	2.6	.0	.0	7.7	4.3	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	.0	5.1	.0	.0	.0	5.1	4.9	SE
SSE	8	.0	.0	5.1	2.6	.0	.0	7.7	4.7	SSE
S	9	2.6	.0	2.6	.0	.0	.0	5.1	3.1	S
SSW	10	2.6	2.6	5.1	.0	.0	.0	10.3	3.0	SSW
SW	11	.0	.0	25.6	7.7	.0	.0	33.3	5.0	SW
WSW	12	2.6	.0	5.1	2.6	.0	.0	10.3	4.1	WSW
W	13	.0	.0	2.6	2.6	.0	.0	5.1	5.4	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	2.6	.0	.0	.0	.0	2.6	2.5	NW
NNW	16	.0	.0	2.6	2.6	.0	.0	5.1	6.0	NNW
CALM		.0							.0	
TOTAL		7.7	7.7	64.1	20.5	.0	.0	100.0	4.5	

96.9% DATA RECOVERED
5.4% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	
1	WS <= .5
2	.5< WS <= 1.8
3	1.8< WS <= 3.3
4	3.3< WS <= 5.4
5	5.4< WS <= 8.5
6	8.5< WS <=10.8
	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

6/ 1/1994 - 6/30/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	2.7	.0	2.7	.0	.0	.0	5.4	3.1	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	2.7	.0	.0	.0	.0	.0	2.7	1.2	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	2.7	.0	.0	.0	.0	.0	2.7	.7	SSW
SW	11	5.4	.0	18.9	35.1	.0	.0	59.5	5.3	SW
WSW	12	2.7	.0	10.8	13.5	.0	.0	27.0	4.9	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	2.7	.0	.0	.0	.0	.0	2.7	1.1	NNW
CALM		.0							.0	
TOTAL		18.9	.0	32.4	48.6	.0	.0	100.0	4.7	

100.0% DATA RECOVERED
5.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 7/ 1/1994 - 7/31/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	2.7	2.7	.0	.0	5.4	5.3	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	2.7	.0	.0	.0	.0	.0	2.7	1.1	ESE
SE	7	.0	.0	2.7	.0	.0	.0	2.7	4.4	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	2.7	.0	.0	.0	.0	.0	2.7	.9	S
SSW	10	2.7	2.7	8.1	5.4	.0	.0	18.9	4.4	SSW
SW	11	.0	2.7	35.1	27.0	.0	.0	64.9	5.4	SW
WSW	12	.0	.0	.0	.0	.0	.0	.0	.0	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	2.7	.0	.0	.0	2.7	4.3	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0							.0	
TOTAL		8.1	5.4	51.4	35.1	.0	.0	100.0	4.9	

100.0% DATA RECOVERED
5.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

8/ 1/1994 - 8/31/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	2.9	.0	.0	.0	.0	.0	2.9	1.0	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	.0	.0	2.9	2.9	.0	.0	5.9	4.9	ESE
SE	7	.0	.0	17.6	5.9	.0	.0	23.5	4.9	SE
SSE	8	.0	.0	5.9	.0	.0	.0	5.9	4.7	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	.0	.0	2.9	.0	.0	.0	2.9	4.4	SSW
SW	11	.0	.0	17.6	20.6	.0	.0	38.2	5.4	SW
WSW	12	.0	.0	8.8	11.8	.0	.0	20.6	5.3	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0							.0	
TOTAL		2.9	.0	55.9	41.2	.0	.0	100.0	5.0	

100.0% DATA RECOVERED
4.6% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	
1	WS <= .5
2	.5< WS <= 1.8
3	1.8< WS <= 3.3
4	3.3< WS <= 5.4
5	5.4< WS <= 8.5
6	8.5< WS <=10.8
	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 9/ 1/1994 - 9/30/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.3	.0	.0	.0	.0	.0	2.3	.7	N
NNE	2	4.7	.0	2.3	2.3	.0	.0	9.3	3.3	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	2.3	.0	.0	.0	.0	2.3	2.8	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	.0	.0	2.3	.0	.0	.0	2.3	4.8	SSW
SW	11	2.3	.0	18.6	25.6	.0	.0	46.5	5.2	SW
WSW	12	2.3	.0	7.0	2.3	.0	.0	11.6	4.1	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		25.6							25.6	
TOTAL		37.2	2.3	30.2	30.2	.0	.0	100.0	3.4	

99.2% DATA RECOVERED
6.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

10/ 1/1994 - 10/31/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.0	2.0	.0	2.0	.0	.0	6.0	2.9	N
NNE	2	.0	4.0	12.0	.0	.0	.0	16.0	4.3	NNE
NE	3	.0	2.0	2.0	.0	.0	.0	4.0	3.3	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	2.0	.0	.0	.0	.0	2.0	2.1	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	2.0	.0	.0	.0	.0	.0	2.0	1.2	SE
SSE	8	4.0	.0	.0	.0	.0	.0	4.0	1.1	SSE
S	9	2.0	.0	.0	.0	.0	.0	2.0	1.2	S
SSW	10	2.0	.0	.0	.0	.0	.0	2.0	1.0	SSW
SW	11	4.0	2.0	8.0	2.0	.0	.0	16.0	3.4	SW
WSW	12	.0	.0	2.0	.0	.0	.0	2.0	4.8	WSW
W	13	2.0	.0	.0	2.0	.0	.0	4.0	3.3	W
WNW	14	.0	.0	2.0	.0	.0	.0	2.0	4.6	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	2.0	.0	.0	.0	.0	.0	2.0	.7	NNW
CALM		36.0							36.0	
TOTAL		56.0	12.0	26.0	6.0	.0	.0	100.0	2.0	

98.5% DATA RECOVERED
6.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

11/ 1/1994 - 11/30/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	2.4	.0	.0	.0	2.4	3.5	N
NNE	2	2.4	.0	4.9	.0	.0	.0	7.3	3.0	NNE
NE	3	2.4	.0	7.3	.0	.0	.0	9.8	3.2	NE
ENE	4	4.9	2.4	.0	.0	.0	.0	7.3	1.6	ENE
E	5	7.3	4.9	.0	.0	.0	.0	12.2	1.8	E
ESE	6	7.3	.0	.0	.0	.0	.0	7.3	1.1	ESE
SE	7	2.4	2.4	.0	.0	.0	.0	4.9	2.1	SE
SSE	8	2.4	.0	.0	.0	.0	.0	2.4	.8	SSE
S	9	2.4	2.4	.0	.0	.0	.0	4.9	1.8	S
SSW	10	2.4	7.3	4.9	.0	.0	.0	14.6	2.8	SSW
SW	11	2.4	2.4	2.4	.0	2.4	.0	9.8	4.1	SW
WSW	12	.0	.0	2.4	.0	.0	.0	2.4	4.5	WSW
W	13	.0	.0	.0	2.4	.0	.0	2.4	5.9	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	2.4	.0	.0	.0	.0	.0	2.4	.5	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		9.8							9.8	
TOTAL		48.8	22.0	24.4	2.4	2.4	.0	100.0	2.3	

99.7% DATA RECOVERED
5.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

12/ 1/1994 - 12/31/1994
0 - 2300 (MST)

STABILITY CLASS C
2.5 - 3.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	6.7	.0	.0	.0	.0	.0	6.7	1.3	N
NNE	2	10.0	.0	.0	.0	.0	.0	10.0	.9	NNE
NE	3	.0	3.3	3.3	.0	.0	.0	6.7	3.4	NE
ENE	4	13.3	.0	.0	.0	.0	.0	13.3	1.1	ENE
E	5	6.7	.0	.0	.0	.0	.0	6.7	1.1	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	3.3	.0	.0	.0	.0	.0	3.3	.8	SSE
S	9	3.3	.0	.0	.0	.0	.0	3.3	.9	S
SSW	10	13.3	6.7	.0	.0	.0	.0	20.0	1.4	SSW
SW	11	10.0	3.3	.0	.0	.0	.0	13.3	1.7	SW
WSW	12	.0	.0	.0	.0	.0	.0	.0	.0	WSW
W	13	3.3	.0	.0	.0	.0	.0	3.3	.6	W
WNW	14	.0	3.3	.0	.0	.0	.0	3.3	1.8	WNW
NW	15	3.3	.0	3.3	.0	.0	.0	6.7	2.7	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		3.3							3.3	
TOTAL		76.7	16.7	6.7	.0	.0	.0	100.0	1.4	

65.1% DATA RECOVERED
6.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

1/ 1/1994 - 1/31/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	1.3	2.7	.0	.0	4.0	5.9	N
NNE	2	.0	2.7	13.3	6.7	2.7	.0	25.3	5.6	NNE
NE	3	1.3	.0	5.3	1.3	.0	.0	8.0	4.2	NE
ENE	4	6.7	.0	.0	.0	.0	.0	6.7	1.4	ENE
E	5	1.3	1.3	1.3	.0	.0	.0	4.0	2.7	E
ESE	6	1.3	1.3	1.3	.0	1.3	.0	5.3	4.1	ESE
SE	7	1.3	.0	1.3	.0	.0	.0	2.7	2.4	SE
SSE	8	1.3	.0	.0	.0	.0	.0	1.3	1.8	SSE
S	9	.0	.0	2.7	.0	.0	.0	2.7	3.5	S
SSW	10	1.3	1.3	2.7	1.3	.0	.0	6.7	3.3	SSW
SW	11	8.0	8.0	2.7	1.3	.0	.0	20.0	2.2	SW
WSW	12	1.3	.0	4.0	.0	.0	.0	5.3	3.5	WSW
W	13	1.3	.0	.0	.0	.0	.0	1.3	1.5	W
WNW	14	.0	1.3	.0	.0	.0	.0	1.3	2.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	1.3	.0	1.3	2.7	5.3	9.2	NNW
CALM		.0							.0	
TOTAL		25.3	16.0	37.3	13.3	5.3	2.7	100.0	4.0	

78.0% DATA RECOVERED
12.9% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 2/ 1/1994 - 2/28/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.5	.8	3.1	1.5	.0	.0	6.9	4.0	N
NNE	2	.0	1.5	6.1	6.1	1.5	.0	15.3	5.5	NNE
NE	3	1.5	2.3	3.1	1.5	.0	.0	8.4	3.7	NE
ENE	4	.8	1.5	.8	.0	.0	.0	3.1	2.5	ENE
E	5	.8	2.3	1.5	.8	.0	.0	5.3	3.4	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	3.1	.0	.0	.0	.0	3.1	2.4	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	2.3	.8	2.3	4.6	1.5	.0	11.5	5.4	S
SSW	10	6.9	1.5	4.6	5.3	.0	.0	18.3	3.8	SSW
SW	11	4.6	3.8	4.6	.0	.0	.0	13.0	2.7	SW
WSW	12	3.1	.0	1.5	.8	.0	.0	5.3	3.0	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.8	.8	1.5	.0	.0	3.1	4.8	WNW
NW	15	.0	1.5	.0	.0	2.3	.0	3.8	6.7	NW
NNW	16	.0	.0	.8	.8	.0	.0	1.5	5.0	NNW
CALM		1.5							1.5	
TOTAL		22.9	19.8	29.0	22.9	5.3	.0	100.0	4.1	

85.4% DATA RECOVERED
22.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 3/ 1/1994 - 3/31/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.5	.5	.5	1.1	2.2	4.8	9.0	N
NNE	2	.0	.0	2.7	9.7	2.7	.5	15.6	6.9	NNE
NE	3	.0	1.1	3.2	2.7	.5	.0	7.5	5.6	NE
ENE	4	.0	.0	.5	.5	.0	.0	1.1	5.7	ENE
E	5	.0	.0	.5	.0	.0	.0	.5	4.4	E
ESE	6	.0	1.1	.0	.0	.0	.0	1.1	2.9	ESE
SE	7	.5	.5	.0	.0	.0	.0	1.1	2.2	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	.5	.5	2.2	9.7	5.4	4.8	23.1	8.7	SSW
SW	11	2.2	5.4	3.2	16.7	5.9	.5	33.9	6.3	SW
WSW	12	.0	1.6	.5	.0	.0	.0	2.2	2.6	WSW
W	13	.5	1.1	.0	.0	.0	.0	1.6	2.2	W
WNW	14	.0	.0	.5	.0	.0	.0	.5	5.2	WNW
NW	15	.0	1.6	.5	1.1	.0	.0	3.2	3.8	NW
NNW	16	.0	1.6	2.2	.0	.0	.0	3.8	3.5	NNW
CALM		.0							.0	
TOTAL		3.8	15.1	16.7	40.9	15.6	8.1	100.0	6.6	

100.0% DATA RECOVERED
25.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

4/ 1/1994 - 4/30/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.5	1.4	.0	.0	1.8	6.8	N
NNE	2	.0	.5	1.4	1.4	2.3	.0	5.5	7.5	NNE
NE	3	.0	2.3	1.8	.0	.0	.0	4.1	3.4	NE
ENE	4	.0	.5	.0	.0	.0	.0	.5	1.8	ENE
E	5	.9	.9	.5	2.3	.0	.0	4.6	4.3	E
ESE	6	.5	.5	1.4	.5	.0	.0	2.7	3.8	ESE
SE	7	.5	.0	.5	.0	.0	.0	.9	2.8	SE
SSE	8	.5	.0	.0	.5	.0	.0	.9	3.4	SSE
S	9	.0	1.4	.9	.0	.5	.0	2.7	4.3	S
SSW	10	.9	2.7	4.1	3.2	4.6	6.4	21.9	8.0	SSW
SW	11	2.3	2.7	4.1	13.7	4.6	5.0	32.4	7.0	SW
WSW	12	1.4	1.8	1.4	3.7	.0	.0	8.2	4.4	WSW
W	13	.9	.9	1.4	1.8	.0	.0	5.0	4.3	W
WNW	14	.0	.5	.5	.0	.0	.0	.9	3.0	WNW
NW	15	.0	1.8	.0	.5	.5	.5	3.2	5.4	NW
NNW	16	.0	1.4	.5	.9	.9	.9	4.6	7.3	NNW
CALM		.0							.0	
TOTAL		7.8	17.8	18.7	29.7	13.2	12.8	100.0	6.3	

99.9% DATA RECOVERED
30.5% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 5/ 1/1994 - 5/31/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.5	1.5	.0	.0	.0	2.1	3.3	NNE
NE	3	.0	.5	.0	.5	.0	.0	1.0	4.3	NE
ENE	4	.0	.0	.5	.5	.0	.0	1.0	5.2	ENE
E	5	.5	.0	.0	.0	.0	.0	.5	1.4	E
ESE	6	.0	.0	1.0	.0	.0	.0	1.0	3.8	ESE
SE	7	.0	1.0	1.5	2.6	.0	.0	5.2	5.1	SE
SSE	8	.0	.5	1.5	1.0	.0	.0	3.1	4.6	SSE
S	9	.0	.0	.0	1.0	.5	.5	2.1	9.0	S
SSW	10	.5	.5	2.1	7.7	5.2	6.7	22.7	8.9	SSW
SW	11	1.5	2.6	4.1	18.0	15.5	6.2	47.9	7.9	SW
WSW	12	.5	1.0	2.1	4.1	1.0	.0	8.8	5.5	WSW
W	13	.5	.0	.5	.5	.0	.0	1.5	4.4	W
WNW	14	.0	.0	.5	.0	.0	.0	.5	3.8	WNW
NW	15	.0	.0	1.5	.0	.0	.0	1.5	3.7	NW
NNW	16	.0	.0	.5	.5	.0	.0	1.0	5.3	NNW
CALM		.0							.0	
TOTAL		3.6	6.7	17.5	36.6	22.2	13.4	100.0	7.3	

96.9% DATA RECOVERED
26.9% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

6/ 1/1994 - 6/30/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.0	.0	.7	.0	.0	.7	6.5	NNE
NE	3	.0	1.1	.0	.0	.0	.0	1.1	2.4	NE
ENE	4	.4	.0	.0	.0	.0	.0	.4	1.8	ENE
E	5	.0	.4	.0	.0	.0	.0	.4	2.1	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	.0	.4	.0	.0	.0	.4	3.7	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	.0	.7	.4	4.4	4.4	1.1	11.0	8.4	SSW
SW	11	1.8	2.6	5.5	32.4	18.4	6.3	66.9	7.7	SW
WSW	12	.7	.4	3.3	7.7	3.3	.4	15.8	6.6	WSW
W	13	.0	.0	.4	.0	.0	.0	.4	3.4	W
WNW	14	.4	1.1	.7	.0	.0	.0	2.2	3.1	WNW
NW	15	.0	.4	.4	.0	.0	.0	.7	3.2	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0							.0	
TOTAL		3.3	6.6	11.0	45.2	26.1	7.7	100.0	7.3	

100.0% DATA RECOVERED
37.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 7/ 1/1994 - 7/31/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	1.0	.5	.0	.0	.0	1.5	2.8	N
NNE	2	.0	2.1	.5	.0	.0	.0	2.6	2.8	NNE
NE	3	.5	3.1	.5	.0	.0	.0	4.1	2.7	NE
ENE	4	.0	3.6	.0	.0	.0	.0	3.6	2.5	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	.0	.0	.0	.5	.0	.0	.5	8.5	ESE
SE	7	.0	.0	.0	1.0	.0	.0	1.0	7.6	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	.0	.0	.5	.0	.0	.5	6.5	S
SSW	10	.5	.5	.5	5.2	5.2	.0	11.9	7.3	SSW
SW	11	.5	1.0	4.1	50.5	8.8	1.0	66.0	7.2	SW
WSW	12	.0	1.5	2.6	2.1	.0	.0	6.2	4.8	WSW
W	13	.0	1.0	.0	.0	.0	.0	1.0	2.4	W
WNW	14	.0	.5	.0	.0	.0	.0	.5	3.0	WNW
NW	15	.0	.5	.0	.0	.0	.0	.5	2.9	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0							.0	
TOTAL		1.5	14.9	8.8	59.8	13.9	1.0	100.0	6.5	

100.0% DATA RECOVERED
26.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

8/ 1/1994 - 8/31/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.5	1.0	.0	.0	.0	1.4	3.2	N
NNE	2	.0	1.9	1.4	.5	.0	.0	3.8	4.0	NNE
NE	3	.5	1.9	.0	.0	.0	.0	2.4	2.4	NE
ENE	4	.0	1.4	.0	.0	.0	.0	1.4	2.5	ENE
E	5	.5	1.0	.5	.0	.0	.0	1.9	2.7	E
ESE	6	.0	.5	.0	.0	.0	.0	.5	3.3	ESE
SE	7	.0	.5	1.4	1.4	.0	.0	3.3	5.3	SE
SSE	8	.0	.0	.0	.5	.0	.0	.5	5.7	SSE
S	9	.0	.5	.0	2.9	.0	.0	3.3	6.5	S
SSW	10	.0	1.0	.5	9.0	4.8	.0	15.2	7.4	SSW
SW	11	.0	1.9	1.9	33.3	15.2	1.9	54.3	7.8	SW
WSW	12	.5	2.9	1.0	3.3	.0	.0	7.6	4.5	WSW
W	13	.0	.5	.0	.0	.0	.0	.5	2.9	W
WNW	14	.0	.5	.0	.0	.0	.0	.5	2.9	WNW
NW	15	.0	.5	.5	.5	.0	.0	1.4	4.6	NW
NNW	16	.0	1.4	.5	.0	.0	.0	1.9	3.0	NNW
CALM		.0							.0	
TOTAL		1.4	16.7	8.6	51.4	20.0	1.9	100.0	6.6	

100.0% DATA RECOVERED
28.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

9/ 1/1994 - 9/30/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.5	.0	.5	.9	.0	1.9	7.1	N
NNE	2	.9	.5	.0	3.7	.0	.0	5.1	5.3	NNE
NE	3	.9	.5	.5	.0	.0	.0	1.9	2.3	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	.5	.0	.0	.0	.0	.0	.5	1.8	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	.5	.5	.5	.0	.0	1.4	4.5	S
SSW	10	2.3	2.3	.9	12.0	10.6	5.1	33.3	7.9	SSW
SW	11	1.9	3.7	2.8	14.8	5.6	1.9	30.6	6.7	SW
WSW	12	.0	.5	2.3	4.2	.0	.0	6.9	5.8	WSW
W	13	.5	.5	.0	.0	.0	.0	.9	1.8	W
WNW	14	1.4	.5	.5	.0	.0	.0	2.3	1.7	WNW
NW	15	.0	.5	.0	.5	.0	.0	.9	4.1	NW
NNW	16	.9	.0	.5	.5	.9	.0	2.8	4.7	NNW
CALM		11.6							11.6	
TOTAL		20.8	9.7	7.9	36.6	18.1	6.9	100.0	5.8	

99.2% DATA RECOVERED
30.3% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

10/ 1/1994 - 10/31/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.0	.8	1.6	1.6	.0	.0	6.1	3.9	N
NNE	2	2.0	.4	1.2	3.7	.4	.0	7.7	4.9	NNE
NE	3	.4	.4	2.0	.8	.0	.0	3.7	4.1	NE
ENE	4	.8	.8	.0	.0	.0	.0	1.6	1.8	ENE
E	5	.4	.0	.0	.0	.0	.0	.4	1.2	E
ESE	6	.0	.4	.0	.0	.0	.0	.4	2.0	ESE
SE	7	1.2	.0	.0	.0	.0	.0	1.2	.7	SE
SSE	8	.0	.4	.0	.0	.0	.0	.4	2.8	SSE
S	9	.4	.0	.4	.0	.0	.0	.8	2.6	S
SSW	10	2.4	1.6	1.2	3.3	1.2	.4	10.2	5.0	SSW
SW	11	2.0	4.1	6.9	9.3	4.1	.8	27.2	5.6	SW
WSW	12	2.8	1.2	1.6	2.4	.4	.0	8.5	3.8	WSW
W	13	2.0	.4	.4	.0	.0	.0	2.8	1.6	W
WNW	14	2.0	.0	.0	.0	.0	.0	2.0	.8	WNW
NW	15	.4	.0	.0	.0	.0	.0	.4	.5	NW
NNW	16	1.6	.0	.8	.4	.0	.0	2.8	2.4	NNW
CALM		23.6							23.6	
TOTAL		44.3	10.6	16.3	21.5	6.1	1.2	100.0	3.3	

98.5% DATA RECOVERED
33.6% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

11/ 1/1994 - 11/30/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.5	.5	1.6	2.1	.0	.0	4.7	5.0	N
NNE	2	1.1	1.1	3.7	5.8	.5	.0	12.1	5.2	NNE
NE	3	.5	2.6	2.6	1.1	.0	.0	6.8	3.9	NE
ENE	4	.5	.0	2.6	.5	.0	.0	3.7	4.1	ENE
E	5	.5	.5	1.1	.0	.0	.0	2.1	3.1	E
ESE	6	1.1	.0	.5	.0	.0	.0	1.6	2.2	ESE
SE	7	.5	1.1	1.1	.0	.0	.0	2.6	3.1	SE
SSE	8	.5	.0	.5	.0	.0	.0	1.1	2.8	SSE
S	9	1.1	.5	.0	.0	.0	.0	1.6	1.5	S
SSW	10	1.1	2.1	.5	2.6	2.1	4.7	13.2	8.1	SSW
SW	11	2.6	4.2	2.1	11.6	2.6	2.6	25.8	6.3	SW
WSW	12	1.1	.0	2.1	2.1	.5	.0	5.8	5.1	WSW
W	13	.0	.5	.0	.0	.0	.0	.5	2.6	W
WNW	14	.5	1.1	.0	.5	.0	.0	2.1	3.5	WNW
NW	15	1.1	1.1	.0	1.1	1.1	.0	4.2	5.1	NW
NNW	16	.5	1.1	2.6	2.6	.5	.0	7.4	5.1	NNW
CALM		4.7							4.7	
TOTAL		17.9	16.3	21.1	30.0	7.4	7.4	100.0	5.2	

99.7% DATA RECOVERED
26.5% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

12/ 1/1994 - 12/31/1994
0 - 2300 (MST)

STABILITY CLASS D
3.5 - 4.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	2.2	6.5	.0	.0	.0	8.7	3.6	N
NNE	2	1.1	.0	4.3	10.9	.0	.0	16.3	5.6	NNE
NE	3	1.1	2.2	12.0	6.5	.0	.0	21.7	4.6	NE
ENE	4	3.3	2.2	1.1	1.1	.0	.0	7.6	2.6	ENE
E	5	2.2	2.2	1.1	.0	.0	.0	5.4	2.4	E
ESE	6	.0	1.1	.0	.0	.0	.0	1.1	2.3	ESE
SE	7	.0	2.2	7.6	.0	.0	.0	9.8	3.9	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	1.1	.0	.0	1.1	.0	.0	2.2	4.0	S
SSW	10	.0	.0	.0	.0	.0	.0	.0	.0	SSW
SW	11	4.3	3.3	3.3	1.1	.0	.0	12.0	2.8	SW
WSW	12	2.2	.0	.0	.0	.0	.0	2.2	1.0	WSW
W	13	1.1	1.1	.0	.0	.0	.0	2.2	2.0	W
WNW	14	.0	1.1	2.2	.0	.0	.0	3.3	3.9	WNW
NW	15	.0	2.2	.0	.0	.0	.0	2.2	2.4	NW
NNW	16	.0	2.2	.0	.0	.0	.0	2.2	1.9	NNW
CALM		3.3							3.3	
TOTAL		19.6	21.7	38.0	20.7	.0	.0	100.0	3.7	

65.1% DATA RECOVERED
19.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 1/ 1/1994 - 1/31/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	1.9	1.9	.0	.0	.0	3.7	3.7	N
NNE	2	.0	1.9	7.4	.0	.0	.0	9.3	4.1	NNE
NE	3	.0	1.9	7.4	.0	.0	.0	9.3	3.8	NE
ENE	4	.0	1.9	3.7	.0	.0	.0	5.6	4.0	ENE
E	5	.0	.0	3.7	.0	.0	.0	3.7	4.2	E
ESE	6	1.9	.0	1.9	.0	.0	.0	3.7	2.5	ESE
SE	7	.0	3.7	.0	.0	.0	.0	3.7	2.7	SE
SSE	8	1.9	.0	.0	.0	.0	.0	1.9	1.0	SSE
S	9	3.7	1.9	1.9	.0	.0	.0	7.4	2.1	S
SSW	10	5.6	3.7	1.9	.0	.0	.0	11.1	2.4	SSW
SW	11	3.7	16.7	.0	.0	.0	.0	20.4	2.2	SW
WSW	12	3.7	3.7	.0	.0	.0	.0	7.4	1.5	WSW
W	13	5.6	.0	.0	.0	.0	.0	5.6	1.3	W
WNW	14	1.9	1.9	.0	.0	.0	.0	3.7	2.0	WNW
NW	15	1.9	.0	1.9	.0	.0	.0	3.7	2.6	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0							.0	
TOTAL		29.6	38.9	31.5	.0	.0	.0	100.0	2.7	

78.0% DATA RECOVERED
9.3% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

2/ 1/1994 - 2/28/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.1	2.1	6.4	.0	.0	.0	10.6	3.7	N
NNE	2	.0	.0	8.5	2.1	.0	.0	10.6	4.8	NNE
NE	3	4.3	2.1	.0	.0	.0	.0	6.4	2.0	NE
ENE	4	2.1	2.1	6.4	.0	.0	.0	10.6	3.0	ENE
E	5	2.1	.0	.0	2.1	.0	.0	4.3	3.6	E
ESE	6	2.1	.0	.0	.0	.0	.0	2.1	1.0	ESE
SE	7	2.1	.0	.0	.0	.0	.0	2.1	1.2	SE
SSE	8	.0	2.1	.0	.0	.0	.0	2.1	1.9	SSE
S	9	.0	4.3	.0	.0	.0	.0	4.3	2.2	S
SSW	10	2.1	6.4	.0	.0	.0	.0	8.5	2.2	SSW
SW	11	10.6	6.4	2.1	.0	.0	.0	19.1	1.7	SW
WSW	12	4.3	.0	2.1	2.1	.0	.0	8.5	3.1	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	4.3	.0	.0	.0	.0	.0	4.3	1.5	WNW
NW	15	2.1	2.1	.0	.0	.0	.0	4.3	1.9	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		2.1							2.1	
TOTAL		40.4	27.7	25.5	6.4	.0	.0	100.0	2.6	

85.4% DATA RECOVERED
8.2% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 3/ 1/1994 - 3/31/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.3	.0	2.5	.0	.0	.0	3.8	3.5	N
NNE	2	.0	3.8	5.1	2.5	.0	.0	11.4	4.0	NNE
NE	3	1.3	5.1	5.1	.0	.0	.0	11.4	3.5	NE
ENE	4	.0	2.5	.0	.0	.0	.0	2.5	2.8	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	.0	1.3	.0	.0	.0	.0	1.3	2.3	ESE
SE	7	.0	1.3	.0	.0	.0	.0	1.3	3.2	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	1.3	2.5	1.3	.0	.0	.0	5.1	2.5	S
SSW	10	8.9	3.8	5.1	.0	.0	.0	17.7	2.5	SSW
SW	11	2.5	7.6	8.9	.0	.0	.0	19.0	3.2	SW
WSW	12	2.5	3.8	2.5	.0	.0	.0	8.9	2.5	WSW
W	13	.0	2.5	.0	.0	.0	.0	2.5	2.6	W
WNW	14	2.5	1.3	.0	.0	.0	.0	3.8	1.7	WNW
NW	15	.0	2.5	1.3	.0	.0	.0	3.8	3.0	NW
NNW	16	2.5	2.5	1.3	.0	.0	.0	6.3	2.7	NNW
CALM		1.3							1.3	
TOTAL		24.1	40.5	32.9	2.5	.0	.0	100.0	2.9	

100.0% DATA RECOVERED
10.6% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

4/ 1/1994 - 4/30/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	1.6	1.6	.0	.0	.0	3.3	3.9	NNE
NE	3	1.6	.0	4.9	.0	.0	.0	6.6	3.5	NE
ENE	4	.0	1.6	1.6	.0	.0	.0	3.3	3.3	ENE
E	5	1.6	.0	1.6	.0	.0	.0	3.3	2.8	E
ESE	6	3.3	1.6	.0	.0	.0	.0	4.9	1.8	ESE
SE	7	1.6	1.6	.0	.0	.0	.0	3.3	2.0	SE
SSE	8	3.3	.0	.0	.0	.0	.0	3.3	1.5	SSE
S	9	4.9	3.3	.0	.0	.0	.0	8.2	1.9	S
SSW	10	4.9	6.6	1.6	.0	.0	.0	13.1	2.3	SSW
SW	11	3.3	8.2	6.6	4.9	.0	.0	23.0	3.5	SW
WSW	12	3.3	4.9	4.9	.0	.0	.0	13.1	2.6	WSW
W	13	1.6	1.6	.0	.0	.0	.0	3.3	2.3	W
WNW	14	1.6	1.6	.0	.0	.0	.0	3.3	1.6	WNW
NW	15	.0	1.6	.0	.0	.0	.0	1.6	2.8	NW
NNW	16	.0	3.3	1.6	.0	.0	.0	4.9	3.1	NNW
CALM		1.6							1.6	
TOTAL		32.8	37.7	24.6	4.9	.0	.0	100.0	2.7	

99.9% DATA RECOVERED
8.5% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

5/ 1/1994 - 5/31/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	2.8	.0	.0	.0	2.8	4.3	N
NNE	2	.0	2.8	.0	1.4	.0	.0	4.2	4.1	NNE
NE	3	.0	7.0	.0	.0	.0	.0	7.0	2.6	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	1.4	.0	2.8	.0	.0	.0	4.2	2.8	ESE
SE	7	1.4	1.4	.0	1.4	.0	.0	4.2	3.4	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	1.4	2.8	2.8	.0	.0	.0	7.0	3.1	S
SSW	10	2.8	2.8	5.6	.0	.0	.0	11.3	2.9	SSW
SW	11	4.2	8.5	8.5	.0	.0	1.4	22.5	3.5	SW
WSW	12	2.8	1.4	12.7	.0	.0	.0	16.9	3.6	WSW
W	13	.0	4.2	1.4	.0	.0	.0	5.6	3.1	W
WNW	14	.0	1.4	2.8	.0	.0	.0	4.2	3.5	WNW
NW	15	.0	1.4	1.4	.0	.0	.0	2.8	3.8	NW
NNW	16	1.4	5.6	.0	.0	.0	.0	7.0	2.1	NNW
CALM		.0							.0	
TOTAL		15.5	39.4	40.8	2.8	.0	1.4	100.0	3.3	

96.9% DATA RECOVERED
9.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

6/ 1/1994 - 6/30/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	2.2	.0	.0	.0	.0	2.2	2.2	NNE
NE	3	.0	13.3	.0	.0	.0	.0	13.3	2.1	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	2.2	.0	.0	.0	.0	2.2	3.3	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	.0	2.2	8.9	.0	.0	.0	11.1	3.5	SSW
SW	11	.0	20.0	6.7	.0	.0	.0	26.7	3.0	SW
WSW	12	6.7	11.1	11.1	.0	.0	.0	28.9	2.8	WSW
W	13	.0	2.2	4.4	.0	.0	.0	6.7	3.4	W
WNW	14	.0	2.2	4.4	.0	.0	.0	6.7	3.9	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	2.2	.0	.0	.0	.0	2.2	2.1	NNW
CALM		.0							.0	
TOTAL		6.7	57.8	35.6	.0	.0	.0	100.0	2.9	

100.0% DATA RECOVERED
6.3% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

7/ 1/1994 - 7/31/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	1.5	1.5	.0	.0	.0	3.0	3.3	N
NNE	2	1.5	4.5	1.5	.0	.0	.0	7.5	2.5	NNE
NE	3	.0	4.5	4.5	.0	.0	.0	9.0	3.3	NE
ENE	4	.0	3.0	.0	.0	.0	.0	3.0	2.5	ENE
E	5	.0	.0	.0	1.5	.0	.0	1.5	8.1	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	.0	1.5	.0	.0	.0	1.5	4.7	SE
SSE	8	.0	1.5	.0	.0	.0	.0	1.5	2.2	SSE
S	9	1.5	1.5	.0	.0	.0	.0	3.0	2.2	S
SSW	10	.0	.0	7.5	.0	1.5	.0	9.0	4.9	SSW
SW	11	1.5	17.9	11.9	.0	.0	.0	31.3	3.2	SW
WSW	12	7.5	7.5	6.0	1.5	.0	.0	22.4	2.8	WSW
W	13	1.5	4.5	.0	.0	.0	.0	6.0	2.2	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	1.5	.0	.0	.0	1.5	3.9	NNW
CALM		.0							.0	
TOTAL		13.4	46.3	35.8	3.0	1.5	.0	100.0	3.2	

100.0% DATA RECOVERED
9.0% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

8/ 1/1994 - 8/31/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	1.5	.0	.0	.0	.0	1.5	3.0	N
NNE	2	.0	1.5	1.5	.0	.0	.0	3.1	2.8	NNE
NE	3	.0	6.2	.0	.0	.0	.0	6.2	2.5	NE
ENE	4	1.5	.0	.0	.0	.0	.0	1.5	1.6	ENE
E	5	.0	.0	3.1	.0	.0	.0	3.1	3.7	E
ESE	6	.0	.0	1.5	.0	.0	.0	1.5	3.8	ESE
SE	7	1.5	.0	.0	.0	.0	.0	1.5	1.6	SE
SSE	8	.0	.0	4.6	.0	.0	.0	4.6	4.2	SSE
S	9	1.5	7.7	1.5	.0	.0	.0	10.8	2.8	S
SSW	10	1.5	1.5	7.7	.0	.0	.0	10.8	3.8	SSW
SW	11	6.2	6.2	13.8	.0	.0	.0	26.2	3.2	SW
WSW	12	4.6	1.5	7.7	.0	.0	.0	13.8	3.1	WSW
W	13	.0	1.5	.0	.0	.0	.0	1.5	2.8	W
WNW	14	.0	1.5	1.5	.0	.0	.0	3.1	3.8	WNW
NW	15	.0	4.6	1.5	.0	.0	.0	6.2	3.0	NW
NNW	16	3.1	1.5	.0	.0	.0	.0	4.6	2.1	NNW
CALM		.0							.0	
TOTAL		20.0	35.4	44.6	.0	.0	.0	100.0	3.1	

100.0% DATA RECOVERED
8.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

9/ 1/1994 - 9/30/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.0	.0	.0	.0	.0	.0	4.0	.9	N
NNE	2	5.0	3.0	2.0	.0	.0	.0	9.9	2.0	NNE
NE	3	.0	.0	1.0	.0	.0	.0	1.0	3.6	NE
ENE	4	4.0	.0	.0	.0	.0	.0	4.0	1.0	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	2.0	.0	.0	.0	.0	.0	2.0	.8	ESE
SE	7	1.0	1.0	.0	.0	.0	.0	2.0	1.8	SE
SSE	8	1.0	.0	1.0	.0	.0	.0	2.0	2.9	SSE
S	9	.0	1.0	1.0	.0	.0	.0	2.0	3.4	S
SSW	10	.0	5.0	1.0	.0	.0	.0	5.9	2.9	SSW
SW	11	7.9	5.0	5.0	.0	.0	.0	17.8	2.5	SW
WSW	12	5.9	4.0	4.0	1.0	.0	.0	14.9	2.6	WSW
W	13	1.0	1.0	1.0	.0	.0	.0	3.0	2.6	W
WNW	14	5.0	.0	1.0	.0	.0	.0	5.9	1.3	WNW
NW	15	1.0	2.0	.0	.0	.0	.0	3.0	2.3	NW
NNW	16	.0	2.0	.0	.0	.0	.0	2.0	2.5	NNW
CALM		20.8							20.8	
TOTAL		58.4	23.8	16.8	1.0	.0	.0	100.0	1.8	

99.2% DATA RECOVERED
14.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

10/ 1/1994 - 10/31/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.4	.0	.0	.0	.0	.0	2.4	.7	N
NNE	2	2.4	2.4	3.2	.8	.0	.0	8.8	2.9	NNE
NE	3	.0	.8	2.4	.0	.0	.0	3.2	4.1	NE
ENE	4	1.6	1.6	.0	.0	.0	.0	3.2	1.8	ENE
E	5	.8	2.4	.0	.0	.0	.0	3.2	2.3	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	2.4	4.0	.8	.0	.0	.0	7.2	2.1	SSW
SW	11	2.4	9.6	2.4	.0	.0	.0	14.4	2.6	SW
WSW	12	4.0	1.6	3.2	.0	.0	.0	8.8	2.5	WSW
W	13	4.8	1.6	.0	.0	.0	.0	6.4	1.2	W
WNW	14	1.6	.0	.8	.0	.0	.0	2.4	1.7	WNW
NW	15	1.6	1.6	.8	.0	.0	.0	4.0	2.1	NW
NNW	16	2.4	.0	.0	.0	.0	.0	2.4	.6	NNW
CALM		33.6							33.6	
TOTAL		60.0	25.6	13.6	.8	.0	.0	100.0	1.5	

98.5% DATA RECOVERED
17.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

11/ 1/1994 - 11/30/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.5	1.2	2.5	.0	.0	.0	6.2	2.2	N
NNE	2	.0	4.9	3.7	1.2	.0	.0	9.9	3.8	NNE
NE	3	1.2	4.9	2.5	.0	.0	.0	8.6	3.2	NE
ENE	4	2.5	2.5	1.2	.0	.0	.0	6.2	2.0	ENE
E	5	.0	2.5	1.2	.0	.0	.0	3.7	3.1	E
ESE	6	2.5	.0	.0	.0	.0	.0	2.5	1.2	ESE
SE	7	.0	1.2	.0	.0	.0	.0	1.2	2.2	SE
SSE	8	1.2	1.2	.0	.0	.0	.0	2.5	1.8	SSE
S	9	1.2	1.2	1.2	.0	.0	.0	3.7	2.6	S
SSW	10	1.2	3.7	.0	.0	.0	.0	4.9	2.0	SSW
SW	11	4.9	11.1	1.2	.0	.0	.0	17.3	2.3	SW
WSW	12	2.5	1.2	4.9	1.2	.0	.0	9.9	3.7	WSW
W	13	3.7	.0	.0	.0	.0	.0	3.7	1.4	W
WNW	14	1.2	1.2	1.2	.0	.0	.0	3.7	2.8	WNW
NW	15	2.5	2.5	3.7	.0	.0	.0	8.6	2.5	NW
NNW	16	1.2	.0	1.2	.0	.0	.0	2.5	2.2	NNW
CALM		4.9							4.9	
TOTAL		33.3	39.5	24.7	2.5	.0	.0	100.0	2.5	

99.7% DATA RECOVERED
11.3% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

12/ 1/1994 - 12/31/1994
0 - 2300 (MST)

STABILITY CLASS E
4.5 - 5.5

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	4.3	.0	.0	.0	.0	4.3	2.5	N
NNE	2	2.2	4.3	8.7	.0	.0	.0	15.2	3.4	NNE
NE	3	.0	2.2	4.3	.0	.0	.0	6.5	3.6	NE
ENE	4	.0	8.7	.0	.0	.0	.0	8.7	2.5	ENE
E	5	2.2	.0	4.3	.0	.0	.0	6.5	2.7	E
ESE	6	2.2	.0	.0	.0	.0	.0	2.2	1.0	ESE
SE	7	2.2	2.2	.0	.0	.0	.0	4.3	1.8	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	2.2	.0	.0	.0	.0	.0	2.2	.8	S
SSW	10	.0	2.2	.0	2.2	.0	.0	4.3	4.3	SSW
SW	11	6.5	4.3	.0	.0	.0	.0	10.9	1.6	SW
WSW	12	6.5	2.2	.0	.0	.0	.0	8.7	1.8	WSW
W	13	2.2	.0	.0	.0	.0	.0	2.2	1.3	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	6.5	4.3	.0	.0	.0	10.9	3.3	NW
NNW	16	2.2	2.2	8.7	.0	.0	.0	13.0	3.3	NNW
CALM		.0							.0	
TOTAL		28.3	39.1	30.4	2.2	.0	.0	100.0	2.7	

65.1% DATA RECOVERED
9.5% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

1/ 1/1994 - 1/31/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	.0	.3	.0	.0	.0	.0	.3	2.0	NNE
NE	3	.7	.3	.0	.0	.0	.0	1.0	1.5	NE
ENE	4	.3	1.0	.0	.0	.0	.0	1.4	2.1	ENE
E	5	2.7	1.0	.0	.0	.0	.0	3.8	1.4	E
ESE	6	5.2	.7	.0	.0	.0	.0	5.8	1.1	ESE
SE	7	4.8	.3	.0	.0	.0	.0	5.2	1.1	SE
SSE	8	6.5	.7	.0	.0	.0	.0	7.2	1.1	SSE
S	9	13.4	1.0	.0	.0	.0	.0	14.4	1.1	S
SSW	10	11.0	2.4	.0	.0	.0	.0	13.4	1.2	SSW
SW	11	14.8	4.8	.0	.0	.0	.0	19.6	1.3	SW
WSW	12	12.0	.7	.0	.0	.0	.0	12.7	1.2	WSW
W	13	4.5	.7	.0	.0	.0	.0	5.2	1.3	W
WNW	14	1.4	.0	.0	.0	.0	.0	1.4	1.0	WNW
NW	15	1.7	.3	.0	.0	.0	.0	2.1	1.7	NW
NNW	16	.3	.3	.0	.0	.0	.0	.7	1.5	NNW
CALM		5.8							5.8	
TOTAL		85.2	14.8	.0	.0	.0	.0	100.0	1.2	

78.0% DATA RECOVERED
50.2% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 2/ 1/1994 - 2/28/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	7.0	1.8	.0	.0	.0	.0	8.8	1.5	N
NNE	2	6.1	1.8	.0	.0	.0	.0	7.9	1.4	NNE
NE	3	2.6	.9	.0	.0	.0	.0	3.5	1.4	NE
ENE	4	2.6	1.8	.0	.0	.0	.0	4.4	1.6	ENE
E	5	1.8	.0	.0	.0	.0	.0	1.8	1.3	E
ESE	6	.4	.9	.0	.0	.0	.0	1.3	1.9	ESE
SE	7	1.3	.4	.0	.0	.0	.0	1.8	1.5	SE
SSE	8	4.8	.4	.0	.0	.0	.0	5.3	1.2	SSE
S	9	3.9	.4	.0	.0	.0	.0	4.4	1.1	S
SSW	10	6.1	.9	.0	.0	.0	.0	7.0	1.2	SSW
SW	11	9.2	.9	.0	.0	.0	.0	10.1	1.1	SW
WSW	12	7.5	3.5	.0	.0	.0	.0	11.0	1.5	WSW
W	13	5.7	1.8	.0	.0	.0	.0	7.5	1.5	W
WNW	14	6.1	3.1	.0	.0	.0	.0	9.2	1.6	WNW
NW	15	6.1	.4	.0	.0	.0	.0	6.6	1.3	NW
NNW	16	5.3	.4	.0	.0	.0	.0	5.7	1.2	NNW
CALM		3.9							3.9	
TOTAL		80.7	19.3	.0	.0	.0	.0	100.0	1.3	

85.4% DATA RECOVERED
39.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 3/ 1/1994 - 3/31/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.8	.0	.0	.0	.0	.0	4.8	1.4	N
NNE	2	5.6	.7	.0	.0	.0	.0	6.3	1.4	NNE
NE	3	2.2	1.9	.0	.0	.0	.0	4.1	1.7	NE
ENE	4	2.6	3.0	.0	.0	.0	.0	5.6	1.7	ENE
E	5	2.6	1.1	.0	.0	.0	.0	3.7	1.5	E
ESE	6	3.0	.4	.0	.0	.0	.0	3.3	1.3	ESE
SE	7	1.5	1.5	.0	.0	.0	.0	3.0	1.7	SE
SSE	8	1.9	.0	.0	.0	.0	.0	1.9	1.0	SSE
S	9	2.6	.0	.0	.0	.0	.0	2.6	1.0	S
SSW	10	6.3	.4	.0	.0	.0	.0	6.7	1.1	SSW
SW	11	12.2	1.5	.0	.0	.0	.0	13.7	1.4	SW
WSW	12	11.9	2.6	.0	.0	.0	.0	14.4	1.4	WSW
W	13	7.0	1.5	.0	.0	.0	.0	8.5	1.3	W
WNW	14	6.3	.4	.0	.0	.0	.0	6.7	1.1	WNW
NW	15	4.8	1.5	.0	.0	.0	.0	6.3	1.5	NW
NNW	16	3.7	.7	.0	.0	.0	.0	4.4	1.3	NNW
CALM		4.1							4.1	
TOTAL		83.0	17.0	.0	.0	.0	.0	100.0	1.3	

100.0% DATA RECOVERED
36.3% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

4/ 1/1994 - 4/30/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.0	.0	.0	.0	.0	.0	N
NNE	2	1.1	.0	.0	.0	.0	.0	1.1	1.6	NNE
NE	3	2.1	.5	.0	.0	.0	.0	2.6	1.3	NE
ENE	4	.5	1.1	.0	.0	.0	.0	1.6	1.9	ENE
E	5	1.6	.0	.0	.0	.0	.0	1.6	1.4	E
ESE	6	3.7	1.6	.0	.0	.0	.0	5.3	1.5	ESE
SE	7	6.3	1.1	.0	.0	.0	.0	7.4	1.2	SE
SSE	8	4.8	.5	.0	.0	.0	.0	5.3	1.2	SSE
S	9	12.2	1.1	.0	.0	.0	.0	13.2	1.3	S
SSW	10	7.4	3.2	.0	.0	.0	.0	10.6	1.4	SSW
SW	11	14.3	2.1	.0	.0	.0	.0	16.4	1.3	SW
WSW	12	13.8	3.7	.0	.0	.0	.0	17.5	1.3	WSW
W	13	6.3	1.1	.0	.0	.0	.0	7.4	1.4	W
WNW	14	3.2	2.1	.0	.0	.0	.0	5.3	1.6	WNW
NW	15	1.6	1.1	.0	.0	.0	.0	2.6	1.7	NW
NNW	16	.0	.5	.0	.0	.0	.0	.5	2.3	NNW
CALM		1.6							1.6	
TOTAL		80.4	19.6	.0	.0	.0	.0	100.0	1.3	

99.9% DATA RECOVERED
26.3% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

5/ 1/1994 - 5/31/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.3	1.1	.0	.0	.0	.0	5.3	1.4	N
NNE	2	2.1	3.7	.0	.0	.0	.0	5.9	1.7	NNE
NE	3	2.7	2.1	.0	.0	.0	.0	4.8	1.5	NE
ENE	4	1.6	3.7	.0	.0	.0	.0	5.3	1.8	ENE
E	5	2.7	.0	.0	.0	.0	.0	2.7	1.2	E
ESE	6	1.1	2.7	.0	.0	.0	.0	3.7	1.9	ESE
SE	7	2.7	1.1	.0	.0	.0	.0	3.7	1.3	SE
SSE	8	1.1	1.6	.0	.0	.0	.0	2.7	1.8	SSE
S	9	3.2	.5	.0	.0	.0	.0	3.7	1.2	S
SSW	10	5.9	1.6	.0	.0	.0	.0	7.4	1.3	SSW
SW	11	7.4	4.3	.0	.0	.0	.0	11.7	1.4	SW
WSW	12	7.4	1.1	.0	.0	.0	.0	8.5	1.3	WSW
W	13	7.4	1.1	.0	.0	.0	.0	8.5	1.4	W
WNW	14	5.3	3.2	.0	.0	.0	.0	8.5	1.6	WNW
NW	15	7.4	2.7	.0	.0	.0	.0	10.1	1.5	NW
NNW	16	4.8	2.1	.0	.0	.0	.0	6.9	1.5	NNW
CALM		.5							.5	
TOTAL		67.6	32.4	.0	.0	.0	.0	100.0	1.5	

96.9% DATA RECOVERED
26.1% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

6/ 1/1994 - 6/30/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.4	1.1	.0	.0	.0	.0	6.5	1.4	N
NNE	2	3.8	2.2	.0	.0	.0	.0	5.9	1.5	NNE
NE	3	4.3	4.3	.0	.0	.0	.0	8.6	1.7	NE
ENE	4	1.1	1.1	.0	.0	.0	.0	2.2	1.9	ENE
E	5	2.7	.0	.0	.0	.0	.0	2.7	1.2	E
ESE	6	2.2	1.6	.0	.0	.0	.0	3.8	1.7	ESE
SE	7	.5	.0	.0	.0	.0	.0	.5	.8	SE
SSE	8	2.7	.0	.0	.0	.0	.0	2.7	1.3	SSE
S	9	1.6	1.6	.0	.0	.0	.0	3.2	1.7	S
SSW	10	4.8	1.1	.0	.0	.0	.0	5.9	1.2	SSW
SW	11	10.8	5.9	.0	.0	.0	.0	16.7	1.5	SW
WSW	12	9.7	2.2	.0	.0	.0	.0	11.8	1.3	WSW
W	13	6.5	.5	.0	.0	.0	.0	7.0	1.2	W
WNW	14	4.8	1.6	.0	.0	.0	.0	6.5	1.3	WNW
NW	15	8.1	.5	.0	.0	.0	.0	8.6	1.2	NW
NNW	16	4.8	.5	.0	.0	.0	.0	5.4	1.3	NNW
CALM		2.2							2.2	
TOTAL		75.8	24.2	.0	.0	.0	.0	100.0	1.4	

100.0% DATA RECOVERED
25.8% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

7/ 1/1994 - 7/31/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	6.3	.5	.0	.0	.0	.0	6.8	1.3	N
NNE	2	7.8	1.0	.0	.0	.0	.0	8.7	1.4	NNE
NE	3	3.9	5.3	.0	.0	.0	.0	9.2	1.8	NE
ENE	4	2.9	1.5	.0	.0	.0	.0	4.4	1.7	ENE
E	5	2.9	.5	.0	.0	.0	.0	3.4	1.4	E
ESE	6	3.9	1.0	.0	.0	.0	.0	4.9	1.3	ESE
SE	7	1.0	1.0	.0	.0	.0	.0	1.9	1.7	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	3.9	.0	.0	.0	.0	.0	3.9	1.3	S
SSW	10	4.9	1.9	.0	.0	.0	.0	6.8	1.6	SSW
SW	11	10.2	1.9	.0	.0	.0	.0	12.1	1.3	SW
WSW	12	8.3	.5	.0	.0	.0	.0	8.7	1.2	WSW
W	13	6.8	1.0	.0	.0	.0	.0	7.8	1.4	W
WNW	14	5.8	1.5	.0	.0	.0	.0	7.3	1.3	WNW
NW	15	4.4	2.4	.0	.0	.0	.0	6.8	1.5	NW
NNW	16	4.4	1.0	.0	.0	.0	.0	5.3	1.4	NNW
CALM		1.9							1.9	
TOTAL		79.1	20.9	.0	.0	.0	.0	100.0	1.4	

100.0% DATA RECOVERED
27.7% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

8/ 1/1994 - 8/31/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.1	1.6	.0	.0	.0	.0	5.7	1.6	N
NNE	2	4.9	2.4	.0	.0	.0	.0	7.3	1.5	NNE
NE	3	3.3	4.1	.0	.0	.0	.0	7.3	1.8	NE
ENE	4	3.3	1.6	.0	.0	.0	.0	4.9	1.6	ENE
E	5	2.4	1.2	.0	.0	.0	.0	3.7	1.7	E
ESE	6	1.6	.0	.0	.0	.0	.0	1.6	1.3	ESE
SE	7	.8	1.2	.0	.0	.0	.0	2.0	1.9	SE
SSE	8	2.4	.8	.0	.0	.0	.0	3.3	1.2	SSE
S	9	3.7	.0	.0	.0	.0	.0	3.7	1.2	S
SSW	10	2.9	2.4	.0	.0	.0	.0	5.3	1.5	SSW
SW	11	4.9	2.0	.0	.0	.0	.0	6.9	1.5	SW
WSW	12	10.2	1.6	.0	.0	.0	.0	11.8	1.2	WSW
W	13	9.8	.8	.0	.0	.0	.0	10.6	1.3	W
WNW	14	3.7	1.2	.0	.0	.0	.0	4.9	1.4	WNW
NW	15	4.5	2.0	.0	.0	.0	.0	6.5	1.5	NW
NNW	16	7.8	1.6	.0	.0	.0	.0	9.4	1.5	NNW
CALM		4.9							4.9	
TOTAL		75.1	24.9	.0	.0	.0	.0	100.0	1.4	

100.0% DATA RECOVERED
32.9% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 9/ 1/1994 - 9/30/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	9.1	1.1	.0	.0	.0	.0	10.2	1.2	N
NNE	2	3.2	1.1	.0	.0	.0	.0	4.3	1.5	NNE
NE	3	7.5	3.8	.0	.0	.0	.0	11.3	1.4	NE
ENE	4	2.7	1.6	.0	.0	.0	.0	4.3	1.8	ENE
E	5	1.1	.0	.0	.0	.0	.0	1.1	.8	E
ESE	6	1.6	.0	.0	.0	.0	.0	1.6	.9	ESE
SE	7	.5	.5	.0	.0	.0	.0	1.1	1.6	SE
SSE	8	.5	.0	.0	.0	.0	.0	.5	.7	SSE
S	9	4.3	.5	.0	.0	.0	.0	4.8	1.1	S
SSW	10	5.4	.0	.0	.0	.0	.0	5.4	1.2	SSW
SW	11	4.3	3.2	.0	.0	.0	.0	7.5	1.6	SW
WSW	12	2.7	1.1	.0	.0	.0	.0	3.8	1.6	WSW
W	13	7.0	1.1	.0	.0	.0	.0	8.1	1.2	W
WNW	14	5.9	1.6	.0	.0	.0	.0	7.5	1.3	WNW
NW	15	2.7	.5	.0	.0	.0	.0	3.2	1.1	NW
NNW	16	3.2	.0	.0	.0	.0	.0	3.2	1.2	NNW
CALM		22.0							22.0	
TOTAL		83.9	16.1	.0	.0	.0	.0	100.0	1.0	

99.2% DATA RECOVERED
26.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

10/ 1/1994 - 10/31/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.3	2.0	.0	.0	.0	.0	5.3	1.7	N
NNE	2	2.0	2.0	.0	.0	.0	.0	4.0	1.4	NNE
NE	3	3.3	1.3	.0	.0	.0	.0	4.7	1.4	NE
ENE	4	4.0	2.0	.0	.0	.0	.0	6.0	1.3	ENE
E	5	.7	.7	.0	.0	.0	.0	1.3	1.9	E
ESE	6	.7	1.3	.0	.0	.0	.0	2.0	1.8	ESE
SE	7	2.0	.0	.0	.0	.0	.0	2.0	.8	SE
SSE	8	2.7	.0	.0	.0	.0	.0	2.7	.8	SSE
S	9	2.7	.7	.0	.0	.0	.0	3.3	1.1	S
SSW	10	3.3	2.7	.0	.0	.0	.0	6.0	1.6	SSW
SW	11	5.3	4.0	.0	.0	.0	.0	9.3	1.6	SW
WSW	12	4.7	1.3	.0	.0	.0	.0	6.0	1.3	WSW
W	13	2.7	.0	.0	.0	.0	.0	2.7	1.2	W
WNW	14	5.3	.7	.0	.0	.0	.0	6.0	1.2	WNW
NW	15	5.3	.7	.0	.0	.0	.0	6.0	1.2	NW
NNW	16	5.3	2.0	.0	.0	.0	.0	7.3	1.6	NNW
CALM		25.3							25.3	
TOTAL		78.7	21.3	.0	.0	.0	.0	100.0	1.0	

98.5% DATA RECOVERED
20.5% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES (MPS)	
CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

11/ 1/1994 - 11/30/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.8	1.9	.0	.0	.0	.0	7.7	1.5	N
NNE	2	4.6	1.5	.0	.0	.0	.0	6.2	1.4	NNE
NE	3	2.3	.8	.0	.0	.0	.0	3.1	1.2	NE
ENE	4	3.1	.0	.0	.0	.0	.0	3.1	1.1	ENE
E	5	4.2	.8	.0	.0	.0	.0	5.0	1.2	E
ESE	6	1.5	.0	.0	.0	.0	.0	1.5	1.2	ESE
SE	7	2.7	.8	.0	.0	.0	.0	3.5	1.2	SE
SSE	8	3.1	.4	.0	.0	.0	.0	3.5	1.2	SSE
S	9	1.9	.0	.0	.0	.0	.0	1.9	1.0	S
SSW	10	5.0	1.2	.0	.0	.0	.0	6.2	1.5	SSW
SW	11	8.1	3.1	.0	.0	.0	.0	11.2	1.4	SW
WSW	12	8.5	2.3	.0	.0	.0	.0	10.8	1.3	WSW
W	13	5.8	1.5	.0	.0	.0	.0	7.3	1.4	W
WNW	14	7.3	1.5	.0	.0	.0	.0	8.9	1.4	WNW
NW	15	6.2	1.5	.0	.0	.0	.0	7.7	1.4	NW
NNW	16	6.2	2.7	.0	.0	.0	.0	8.9	1.5	NNW
CALM		3.5							3.5	
TOTAL		79.9	20.1	.0	.0	.0	.0	100.0	1.3	

99.7% DATA RECOVERED
36.1% OF RECOVERED DATA
REPORTED ABOVE

WIND SPEED CLASSES
(MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours

12/ 1/1994 - 12/31/1994
0 - 2300 (MST)

STABILITY CLASS F
5.5 - 6.6

W I N D S P E E D C L A S S

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.8	1.0	.0	.0	.0	.0	5.8	1.3	N
NNE	2	3.9	1.0	.0	.0	.0	.0	4.8	1.6	NNE
NE	3	3.4	.5	.0	.0	.0	.0	3.9	1.5	NE
ENE	4	2.9	1.0	.0	.0	.0	.0	3.9	1.4	ENE
E	5	1.9	.0	.0	.0	.0	.0	1.9	1.3	E
ESE	6	.5	.5	.0	.0	.0	.0	1.0	1.6	ESE
SE	7	1.4	.5	.0	.0	.0	.0	1.9	1.5	SE
SSE	8	5.3	.0	.0	.0	.0	.0	5.3	1.0	SSE
S	9	3.9	.0	.0	.0	.0	.0	3.9	1.1	S
SSW	10	7.7	1.9	.0	.0	.0	.0	9.7	1.5	SSW
SW	11	8.7	1.9	.0	.0	.0	.0	10.6	1.4	SW
WSW	12	11.1	1.9	.0	.0	.0	.0	13.0	1.3	WSW
W	13	7.2	1.9	.0	.0	.0	.0	9.2	1.5	W
WNW	14	2.4	2.4	.0	.0	.0	.0	4.8	1.5	WNW
NW	15	6.3	1.0	.0	.0	.0	.0	7.2	1.3	NW
NNW	16	5.8	2.4	.0	.0	.0	.0	8.2	1.5	NNW
CALM		4.8							4.8	
TOTAL		82.1	17.9	.0	.0	.0	.0	100.0	1.3	

65.1% DATA RECOVERED
42.8% OF RECOVERED DATA REPORTED ABOVE

WIND SPEED CLASSES (MPS)

CALM	WS <= .5
1	.5< WS <= 1.8
2	1.8< WS <= 3.3
3	3.3< WS <= 5.4
4	5.4< WS <= 8.5
5	8.5< WS <=10.8
6	10.8< WS

APPENDIX D: TABULATED HOURLY RICHARDSON NUMBERS, MONIN-OBUKHOV LENGTHS ESTIMATED FROM RICHARDSON NUMBERS, TEMPERATURE DIFFERENCES TWO TO SIXTEEN METERS, AND SIGMA THETA STABILITY CLASSES

Richardson Numbers

1-12	Richardson Number, One Quarter to Two Meter Layer, January-December, 1994
13-24	Richardson Number, One Half to Four Meter Layer, January-December, 1994
25-36	Richardson Number, Two to Sixteen Meter Layer, January-December, 1994

Monin-Obukhov Lengths Based on Richardson Numbers

37-48	Based on Richardson Number, One Quarter to Two Meter Layer, January-December, 1994
49-60	Based on Richardson Number, One Half to Four Meter Layer, January-December, 1994
61-72	Based on Richardson Number, Two to Sixteen Meter Layer, January-December, 1994

Temperature Differences Two to Sixteen Meters

73-84	Temperature Differences, Two to Sixteen Meter Layer, January-December, 1994

Sigma Theta Stability Classes

85-96	Eight Meter Sigma Theta Stability Class, January-December, 1994

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — JAN, 1994

RICHARDSON NUMBER 1 TIMES 100 — RINUM1

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	11	57	30	78	36	19	10	12	-3	-13	53	-382	11	11	26	75	246	46	91	64	84	36	97	53
2	221	69	69	24	4	11	-3	-3	-27	6	69	-14	371	321	8	66	97	59	26	39	23	54	83	64
3	17	142	48	49	25	15	6	-6	-10	277	238	74	181	14	219	122	60	94	64	25	943	84	43	29
4	12	39	27	33	13	10	13	10	16	-13	-306	-51	-52	32	80	56	73	108	20	82	34	26	13	34
5	11	11	19	26	55	43	25	10	15	7	147	-321	-31	19	5	2	2	1	2	9	7	14	47	46
6	44	66	101	63	66	46	14	7	11	15	-5	-1	-1	-1	0	1	10	14	19	61	31	32	145	22
7	108	24	26	16	13	-4	18	-37	256	----	-23	2073	-137	-159	53	31	36	36	13	41	41	64	46	13
8	26	42	74	18	20	-10	1	-4	-68	4	213	-13	61	-15	12	8	15	12	80	27	19	25	12	29
9	47	10	24	-21	12	1	-5	-16	-14	-35	-142	-29	353	-48	----	46	91	43	87	12	20	80	9	10
10	36	103	26	8	48	20	104	9	5	1	0	-2	-4	-3	2	9	19	23	20	50	34	32	33	36
11	28	28	25	13	19	-1	12	-2	-125	89	-62	-53	52	8	52	13	17	10	7	14	9	13	22	14
12	8	46	67	49	34	24	29	22	13	18	2	-1	1	1	1	3	10	15	10	8	10	160	16	11
13	43	26	27	24	31	20	66	-2	3	-26	61	-840	-56	-13	6	4	8	9	6	38	11	16	40	60
14	24	22	16	16	83	17	21	18	137	17	-562	----	-188	-266	-99	106	65	108	42	29	18	15	45	55
15	13	16	34	40	16	30	42	7	-6	24	-7	----	14	143	25	35	13	35	27	23	74	22	30	14
16	47	12	14	31	22	20	11	-8	11	32	-128	-486	2	0	1	2	11	19	26	50	32	19	26	62
17	53	50	70	29	27	24	24	20	-2	6	11	-54	3	-80	35	103	94	133	32	20	20	44	13	118
18	99	64	94	44	49	47	21	27	12	-69	7	140	-43	-15	50	202	85	36	267	136	23	37	50	68
19	59	37	84	47	20	31	11	337	78	121	205	5	++++	-10	389	97	84	26	44	60	92	17	67	36
20	66	146	19	66	9	34	1	6	-46	796	57	184	200	26	142	105	183	28	46	32	47	61	53	48
21	81	53	39	49	57	27	47	2	-10	-3	-6	32	9	86	86	73	49	28	120	34	52	36	35	24
22	21	21	20	48	48	57	35	32	-2	43	57	41	251	70	80	58	305	37	32	59	60	562	34	108
23	83	22	19	15	43	10	-20	-20	-26	-34	-17	-15	-9	4	8	3	6	5	14	18	44	71	51	96
24	81	32	48	36	23	41	28	14	----	39	-68	-30	11	3	4	8	48	12	29	35	85	33	24	7
25	6	3	4	3	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
27	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
28	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
29	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
31	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****

PERCENT VALID HOURS FOR JAN, 1994 580*100/ 744= 78.0%

THREE HIGHEST VALUES FOR JAN, 1994 XXXX(DD,HH) = ++++(19,12) 2073(7,11) 943(3,20). (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — FEB, 1994

RICHARDSON NUMBER 1 TIMES 100 — RINUM1

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	****	****	****	****	****	****	****	****	****	****	****	-13	-14	-3	13	77	51	73	36	24	28	39	17	27
2	14	35	11	21	15	10	3	-23	-68	22	21	605	175	-324	-23	15	111	37	13	18	88	51	18	14
3	35	18	18	35	11	32	12	-12	-18	-89	47	-23	60	-11	-7	16	14	15	18	44	21	48	19	13
4	8	7	6	10	13	4	-3	0	-18	-27	-222	----	----	----	-47	-48	-9	5	26	24	29	26	19	12
5	15	7	5	32	21	6	1	-1	-36	-31	-770	-189	----	-43	-81	-10	10	39	19	34	16	17	25	17
6	24	11	11	23	11	16	13	7	12	-40	-35	-307	-85	-78	-30	-11	20	19	25	14	20	15	8	22
7	9	15	10	60	17	6	12	7	-6	-69	-56	-66	-21	-15	-2	-2	6	****	****	****	****	****	****	****
8	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
9	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
11	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
12	****	****	****	****	****	****	****	****	****	****	****	****	****	-129	-120	-47	43	18	35	41	80	17	45	7
13	46	18	5	-1	-32	-58	-51	-51	-112	-20	146	-181	400	187	68	34	29	54	26	16	20	47	61	23
14	27	30	9	-1	5	-38	-37	-31	-25	107	-16	58	31	-14	33	52	53	61	59	51	21	33	86	28
15	36	49	57	33	12	10	19	5	4	-3	-29	31	54	18	-26	21	31	26	34	27	18	28	34	36
16	33	11	5	3	4	6	2	-3	-9	-17	-48	-31	-40	-7	-1	1	1	6	14	28	13	11	11	9
17	16	11	5	1	1	-1	-13	-79	-14	-100	-161	-422	----	-33	-8	-1	2	8	7	25	28	17	12	16
18	7	17	4	-4	-4	-2	-5	-11	2	-29	-7	-1	-6	-7	-4	-3	4	4	5	19	20	26	12	54
19	24	27	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	29	28	23	88	55	26	
21	68	24	17	9	28	84	19	22	-88	-76	-35	-3	-48	-18	-7	-4	3	6	24	33	73	60	79	32
22	71	18	43	27	76	14	6	10	4	5	-6	-8	-10	-7	-8	-3	1	6	8	9	19	84	80	24
23	24	23	32	31	9	11	10	-14	0	-36	92	113	224	-400	-127	69	15	124	20	11	41	30	9	14
24	18	2	-1	-2	-5	1	-12	-12	-14	95	43	-71	16	-6	-4	-1	4	14	17	18	45	66	25	15
25	29	112	20	20	7	17	2	-128	-29	7	159	103	287	-462	-37	-1	3	18	76	52	17	22	28	24
26	50	32	16	7	0	18	1	-34	-34	-82	46	-211	-20	-25	-1	1	2	3	9	26	37	139	49	34
27	40	10	28	40	15	27	9	19	-24	-25	-18	-9	-3	0	13	7	5	5	8	9	60	8	3	5
28	29	8	20	17	19	28	90	82	3	-1	-4	-5	-18	-10	-5	-1	2	6	10	4	6	29	85	11

PERCENT VALID HOURS FOR FEB, 1994 505*100/ 672= 75.1%

THREE HIGHEST VALUES FOR FEB, 1994 XXXX(DD,HH) = 605(2,11) 400(13,12) 287(25,12) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — MAR, 1994

RICHARDSON NUMBER 1 TIMES 100 — RINUM1

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	22	10	40	44	29	189	41	42	-13	-223	-14	-4	-7	-14	-11	-6	8	23	31	21	81	13	23	38
2	34	60	161	29	16	-3	-10	-73	-3	----	----	-189	-214	----	-61	-113	12	110	90	20	30	24	21	50
3	29	91	15	17	22	4	-1	-7	----	22	8470	----	-95	-76	-13	-5	4	12	9	14	35	44	17	18
4	42	37	7	9	-1	9	-36	-26	-35	-23	----	8	-162	-44	-38	-12	3	8	16	39	15	20	16	13
5	38	7	20	7	11	4	1	-5	-58	-133	-99	-123	-49	-12	-1	0	1	8	19	66	64	76	7	5
6	19	33	16	15	19	17	14	31	2239	-12	-47	-23	-6	-1	0	0	11	18	96	14	****	3	1	9
7	57	34	15	36	11	36	32	19	13	-127	-30	-231	-18	-14	-6	-9	12	25	46	18	34	62	42	30
8	16	11	21	103	28	18	11	16	1	-158	-213	-94	-102	-98	-16	-8	-47	30	39	29	35	191	20	16
9	26	9	51	46	55	33	6	-33	----	-19	----	-117	----	-63	-162	-186	-4	11	11	23	23	14	34	-3
10	31	7	4	-25	4	12	3	-44	----	-122	-187	-41	-4	-2	-2	-1	1	2	7	20	13	9	30	19
11	39	116	39	6	7	3	15	10	1	-4	-3	-2	-2	-1	-2	-1	0	0	1	1	2	9	4	1
12	2	1	2	6	8	8	8	3	-1	-2	-1	-3	-3	-6	-2	-1	0	3	9	11	12	5	10	19
13	8	114	64	9	5	11	4	2	-2	-5	-8	-273	-81	-77	-7	-7	6	50	67	47	15	22	18	-2
14	9	87	9	16	4	6	-12	-130	-104	-25	-81	-80	-241	-93	-243	-42	-24	91	18	66	23	22	65	39
15	7	12	48	56	10	8	-22	----	-73	----	----	-147	-34	-6	-7	-1	1	5	32	42	46	58	166	26
16	188	58	107	58	37	103	237	6	1	0	-1	-2	-2	-3	-2	-2	0	3	8	11	8	7	31	60
17	32	95	81	32	18	19	16	9	-5	-18	-81	-91	-119	-409	-22	-4	-1	7	20	52	12	26	29	27
18	7	25	-5	-7	-2	3	3	1	0	-1	-2	-2	-2	-2	-1	-1	0	1	2	4	2	1	2	6
19	9	12	2	2	3	10	1	1	0	-1	-1	-2	-3	-2	-2	-3	-1	0	0	0	1	0	-1	-5
20	4	17	52	24	24	8	1	-13	-17	----	-91	-407	-429	-103	-68	-69	-33	2	6	5	22	22	6	8
21	7	4	-30	2	-2	-4	-13	----	-172	----	-51	-11	-7	-5	-3	-2	-1	1	2	7	75	24	32	17
22	11	9	39	22	20	67	13	1	0	-1	-1	-1	-1	-1	-1	-1	0	2	8	15	8	19	14	24
23	15	23	10	110	61	12	20	-21	-39	-232	----	-303	-336	----	-101	-73	-17	2	10	21	15	20	19	15
24	18	12	6	-1	11	7	6	2	-49	-49	-27	-61	-52	-22	-11	-4	0	5	15	29	28	11	29	22
25	12	19	23	10	3	2	4	2	2	18	-6	-11	-92	-6	-3	-2	-3	-1	1	5	14	13	37	43
26	20	18	14	7	5	0	4	-22	-41	-38	-9	-8	-4	-9	-4	-1	1	7	21	44	63	67	39	46
27	9	26	77	31	37	8	71	128	54	-211	-12	-9	-7	-3	-2	-1	1	5	56	20	59	38	32	110
28	37	16	20	45	106	14	8	-1	2727	----	-141	----	-39	-11	-4	-1	2	6	20	61	46	73	96	39
29	32	37	32	32	29	39	3	----	18	38	100	-986	-127	----	-68	-170	0	13	15	78	24	45	61	23
30	12	24	27	68	37	22	35	12	10	-86	-57	-232	-103	-23	-43	-78	-13	12	19	29	7	13	27	25
31	91	52	11	44	50	15	-176	-42	-13	-81	-42	-5	-3	-3	-2	-2	0	3	6	23	15	13	55	49

PERCENT VALID HOURS FOR MAR, 1994 743*100/ 744= 99.9%

THREE HIGHEST VALUES FOR MAR, 1994 XXXX(DD,HH) = 8470(3,10) 2727(28, 8) 2239(6, 8) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — APR, 1994

RICHARDSON NUMBER 1 TIMES 100 — RINUM1

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	18	15	26	42	14	36	-5	-69	-152	-4	-6	-14	-31	-55	-44	-16	-9	31	20	15	24	38	27	52
2	103	31	108	20	14	23	20	-14	-103	-177	-94	-157	-249	-248	-89	-54	-7	28	123	43	42	15	13	30
3	65	28	68	32	9	34	23	2	0	-1	-1	-2	-3	-3	-2	-2	-4	5	4	4	4	1	3	38
4	51	16	27	23	15	31	3	-44	-48	-42	-33	-102	-66	-3	-2	-1	-1	1	3	5	8	28	19	19
5	21	92	25	39	28	28	-1	-72	1482	****	****	****	****	****	-29	-19	-5	3	10	11	28	22	20	29
6	30	54	30	14	4	9	-23	-23	-24	-31	-234	-160	-110	-115	-9	-4	-2	2	49	13	4	4	2	9
7	62	22	15	9	9	33	-67	-87	-222	-90	-67	-79	-40	-34	-16	-7	-4	2	12	13	47	26	14	27
8	14	30	7	24	13	27	6	-4	-10	-15	-26	-51	-9	-4	-2	-1	-1	0	1	1	1	1	2	2
9	6	4	3	4	7	4	1	1	0	49	-140	-40	-6	-3	-6	-3	1	1	8	12	8	32	32	13
10	10	19	23	19	27	21	-11	-160	-17	-5	-7	-4	-6	-3	-3	-2	0	0	1	2	2	4	6	6
11	9	6	6	13	15	27	3	-23	-33	-81	-212	-218	-105	-115	-74	-54	-58	5	18	25	9	29	11	23
12	19	35	14	30	28	14	-5	-36	-908	-352	-658	-186	-56	-32	-18	-17	-3	3	16	31	15	29	35	42
13	35	71	9	16	12	-1	-331	----	-616	-69	-180	-39	-20	-18	-10	-6	-1	2	8	23	27	21	26	71
14	83	22	13	11	5	8	-7	-99	-483	----	-159	-104	-123	-32	-20	-11	-2	37	22	26	48	9	12	14
15	7	5	4	6	8	6	16	-53	-8	-21	-17	-65	-115	-80	-494	-124	-54	36	66	17	10	13	91	149
16	157	69	20	52	48	10	-108	-110	----	-100	-156	-62	-24	-22	-9	-5	1	15	66	32	12	17	38	13
17	56	85	26	6	3	6	-5	-199	----	----	-228	-85	-12	-9	-2	-1	1	2	5	20	26	21	42	30
18	13	18	35	24	50	19	-33	-40	-314	-188	-241	-91	-13	-91	-23	-25	-9	4	11	16	41	42	25	32
19	23	43	19	20	9	12	----	67	-195	----	----	-520	-38	-25	-13	-15	-7	3	11	13	38	27	48	14
20	14	23	84	59	28	39	-46	-225	-796	-944	-227	-50	-10	-6	-4	-4	-1	2	8	24	18	51	82	24
21	69	16	43	36	18	6	-98	-142	-883	-84	-12	-2	-2	-2	-2	-1	-1	0	2	3	4	21	35	21
22	8	4	7	51	112	13	-2	-18	-113	-33	-23	-19	-6	-3	-2	-2	-2	0	6	4	36	22	115	4
23	3	4	2	3	3	11	1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	0	0	0	0	0	0	0
24	0	1	0	2	8	2	0	-1	-3	-4	-5	-9	-13	-13	-9	-7	-3	-2	-2	-1	19	8	15	7
25	21	20	7	3	2	11	-4	-8	-2	-2	-2	-3	-1	-1	-2	-2	1	1	1	5	10	6	13	21
26	21	16	0	3	4	-4	-67	-151	-726	-223	-135	-21	-6	1	0	-3	-2	0	3	6	22	22	4	2
27	13	15	-6	-1	12	1	-3	-14	-29	-7	-11	-3	-4	-5	-10	-6	-2	-6	5	5	6	2	4	4
28	4	2	8	7	6	4	-15	-69	-681	-78	-13	-67	-17	-6	-6	-18	-35	3	11	30	14	6	14	26
29	31	13	14	8	5	1	-6	-161	-224	-406	-46	-26	-17	-63	-64	-45	-33	-14	43	15	27	13	16	15
30	42	18	39	18	14	9	-10	-81	-456	-334	-103	-33	-11	-4	-2	-1	-1	4	14	23	32	29	36	13

PERCENT VALID HOURS FOR APR, 1994 715*100/ 720= 99.3%

THREE HIGHEST VALUES FOR APR, 1994 XXXX(DD,HH) = 1482(5, 8) 157(16, 0) 149(15,23) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — MAY, 1994

RICHARDSON NUMBER 1 TIMES 100 — RINUM1

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	74	31	17	15	7	4	0	-37	-88	-233	-116	-66	-103	-44	-52	-62	-20	7	66	17	21	22	16	56
2	13	39	93	18	14	-8	-50	-116	-85	----	-101	-72	-24	-18	-18	-6	-3	0	6	20	22	17	20	108
3	25	11	23	28	13	12	----	----	-384	-237	-269	-140	-49	-16	-9	-5	-4	0	10	17	26	22	45	13
4	14	30	20	26	17	0	-105	-101	-523	-490	-276	-24	-22	-21	-3	-2	-1	0	2	7	10	21	13	6
5	49	31	22	53	20	103	18	-36	-92	-9	-4	-5	-3	-2	-2	-3	-1	1	5	14	9	6	3	70
6	7	5	11	29	40	6	0	-3	-2	-3	-4	-1	-2	-2	-1	-1	-1	0	0	0	0	-1	0	2
7	17	16	18	16	8	-57	-158	-46	-81	-99	-44	-29	-15	-10	-18	-11	-9	-2	-1	0	1	1	2	2
8	5	6	10	10	11	6	-2	-11	-19	-52	-30	-10	-10	-23	-9	-54	-28	-208	5	12	6	23	13	23
9	106	20	2	-5	-10	-133	-23	-17	-23	-10	-37	-39	-32	-43	-46	-15	-7	0	8	26	33	23	105	56
10	16	33	15	9	11	2	-172	-17	-32	-977	-515	-91	-102	-44	-14	-43	-2	0	20	20	23	12	9	23
11	9	16	22	47	16	7	-280	-80	-221	----	-115	-166	-52	-76	-59	1	-8	2	7	10	++++	113	86	113
12	177	23	50	72	510	0	----	-953	----	----	----	-74	-25	-27	-12	-5	-2	0	2	1	1	13	15	9
13	10	31	14	39	12	10	-94	-88	-835	----	-104	-206	-126	-318	-7	-5	-10	49	32	93	22	28	26	24
14	32	6	76	7	541	21	-158	-742	----	-820	-238	-183	-8	-7	-3	-3	-1	0	3	8	7	2	1	2
15	1	3	7	13	269	71	53	-1	-1	-2	-3	-2	-2	-2	-1	-1	0	0	1	3	4	3	3	2
16	2	10	10	3	2	1	0	-1	-1	-1	-2	-2	-2	-2	-1	-1	-1	0	0	0	0	5	9	41
17	36	13	32	31	51	10	-177	-569	-193	-59	-5	-3	-3	-3	-5	-2	-2	-1	1	2	1	1	3	532
18	11	52	7	3	3	24	-254	-618	-14	-5	-5	-4	-4	-3	-3	-3	-2	-1	0	2	5	23	14	21
19	12	17	34	9	0	-20	-43	-47	-144	-103	-70	----	-69	-32	-25	-21	-14	-20	-650	3	11	154	8215	77
20	18	8	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
21	****	31	41	833	159	-66	----	-505	----	-22	----	-13	-47	-27	-374	-16	-3	0	4	14	32	22	60	68
22	28	1080	739	44	37	-12	-51	----	----	----	----	-42	-37	-65	-17	-10	-8	0	5	8	21	63	40	41
23	34	9	31	79	63	-7	-131	-182	----	----	-198	-156	-39	-32	-26	-27	-7	-1	1	29	9	21	59	18
24	27	1304	2920	1084	28	97	-107	----	-274	----	----	-7	-9	-5	-20	-12	-7	2	2	3	16	17	19	21
25	21	17	22	44	36	38	-10	-119	-333	-53	-30	-27	-22	-42	-50	-29	-14	-8	0	2	6	24	9	15
26	29	9	11	12	16	1	-53	-594	-87	-45	-131	-139	-55	-36	-6	-3	-14	-2	1	2	3	28	24	13
27	23	20	70	31	8	5	-1	-101	-29	-3	-2	-3	-2	-2	-3	-2	-1	0	2	6	13	15	21	8
28	18	14	30	55	100	63	-5	-60	-83	-53	-24	-18	-15	-10	-8	-6	-3	0	10	21	33	29	29	48
29	63	15	40	37	26	3	-54	-488	----	----	-173	-57	-14	-12	-5	-4	-2	1	6	37	21	17	29	88
30	22	72	64	47	14	-28	-141	----	-150	----	-243	-117	-6	-2	-2	-7	0	1	1	1	3	19	5	5
31	1	4	7	79	55	5	-24	-86	-59	-5	-7	-17	-34	-44	-90	-25	-11	0	11	13	22	31	60	16

PERCENT VALID HOURS FOR MAY, 1994 721*100/ 744= 96.9%

THREE HIGHEST VALUES FOR MAY, 1994 XXXX(DD,HH) = ++++(11,20) 8215(19,22) 2920(24, 2) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — JUNE, 1994

RICHARDSON NUMBER 1 TIMES 100 — RINUM1

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	45	38	17	30	19	0	-13	-3	-93	-86	-258	-133	-236	-41	-62	-49	-28	32	68	17	42	45	36	13
2	12	24	91	20	16	8	-99	-43	-435	----	123	56	****	-44	-17	-5	-1	0	2	13	93	183	28	18
3	21	32	36	36	24	-3	-14	-22	-248	-8	-3	-4	-3	-2	-1	-2	-1	1	2	5	59	68	32	71
4	62	133	13	37	31	1	-20	-765	-18	-10	-18	-31	-23	-10	-7	-6	-2	1	4	21	51	23	31	23
5	23	44	22	33	43	-13	-263	----	-250	-117	-43	-5	-2	-2	-2	-2	-1	0	2	5	2	4	2	3
6	7	4	11	24	11	7	0	-2	-4	-2	-1	-2	-3	-2	-2	-1	-1	0	1	2	3	3	8	9
7	12	51	30	27	7	4	-15	-36	-254	-384	-140	-58	-65	-41	-29	-14	-5	-1	3	10	23	110	72	19
8	35	19	22	19	14	2	1	-4	-37	-104	-131	-90	-110	-61	-91	-44	-75	-2	6	10	26	48	57	21
9	27	35	44	22	30	-19	-73	-142	-88	-796	-403	-155	-194	-184	-73	-26	-13	0	8	12	19	44	56	41
10	58	22	63	54	27	1	-145	-122	-707	-691	-314	-76	-42	-28	-31	-9	-7	1	8	18	16	80	93	25
11	27	32	21	41	12	36	-20	----	-578	-209	-32	-14	-11	-18	-6	-4	-2	0	2	9	50	125	54	30
12	35	26	21	49	38	29	-47	----	----	-125	-11	-12	-10	-4	-3	-2	-1	0	2	13	27	35	22	14
13	134	21	51	93	16	3	-30	-43	-57	-11	-3	-3	-3	-2	-2	-1	0	0	2	4	31	44	45	16
14	20	60	29	68	56	26	1	-3	-3	-2	-2	-2	-3	-2	-2	-1	-1	0	1	1	1	2	2	2
15	5	7	10	40	30	8	-8	-2	-1	-1	-1	-2	-2	-2	-2	-1	-1	0	1	2	2	3	4	8
16	8	10	20	28	30	13	-5	-92	-28	-20	-9	-5	-4	-3	-2	-3	-2	0	3	6	8	12	48	16
17	23	66	51	137	43	-57	-46	-120	-106	-33	-4	-3	-2	-2	-2	-2	-1	0	2	3	14	9	27	19
18	31	24	33	52	102	20	-163	-171	-95	-57	-12	-5	-3	-2	-2	-2	-1	0	2	70	326	18	66	22
19	26	61	58	52	123	16	-39	----	----	-197	-85	-19	-15	-7	-5	-3	-2	0	4	46	83	36	145	17
20	65	23	16	19	17	3	-109	----	----	-600	-18	-5	-5	-4	-3	-3	-3	-1	1	7	29	15	51	45
21	26	21	36	9	9	5	8	11	-33	-18	-32	-15	-9	-9	-7	-6	-4	0	3	16	19	28	70	47
22	90	32	35	45	18	2	-106	----	-80	-30	-6	-3	-4	-3	-3	-2	-1	0	2	17	22	19	28	18
23	29	29	35	49	79	51	-168	----	-217	-16	-5	-4	-4	-3	-3	-2	-1	1	5	93	59	40	26	17
24	36	35	62	33	39	10	-40	----	-65	-115	-83	-7	-6	-5	-3	-2	-1	2	5	41	143	29	131	95
25	86	53	154	35	19	3	-141	-208	-94	-4	-4	-3	-4	-3	-2	-1	-1	0	1	6	18	256	143	11
26	13	53	23	8	3	3	2	0	-1	-3	-7	-6	-3	-3	-2	-2	-1	0	1	2	3	4	14	6
27	12	128	18	62	41	24	31	-328	-106	-10	-11	-11	-10	-7	-6	-5	-2	0	2	3	4	13	72	19
28	25	46	14	28	16	7	-220	----	-248	-569	-109	-24	-7	-4	-4	-3	-1	0	6	20	57	32	36	76
29	29	26	15	93	67	37	-91	----	-261	-584	-69	-12	-7	-6	-9	-3	-2	0	3	12	11	6	11	19
30	47	89	68	19	76	25	----	-34	----	-304	-24	-6	-7	-5	-6	-3	-1	1	4	4	5	8	5	5

PERCENT VALID HOURS FOR JUNE, 1994 719*100/ 720= 99.9%

THREE HIGHEST VALUES FOR JUNE, 1994 XXXX(DD,HH) = 326(18,20) 256(25,21) 183(2,21) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — JULY, 1994

RICHARDSON NUMBER 1 TIMES 100 — RINUM1

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	10	42	11	24	11	12	7	-5	-3	-2	-2	-1	-2	-1	-1	-1	0	0	1	6	4	8	9	22
2	9	13	27	27	40	50	10	-3	-3	-6	-6	-6	-5	-6	-5	-7	-2	0	1	3	8	23	31	65
3	34	21	210	193	123	207	-47	-19	-9	-13	-19	-21	-23	-8	-7	-4	-2	-1	3	17	135	26	26	17
4	27	24	33	38	46	5	-98	-439	-45	-59	-20	-17	-15	-6	-4	-2	-2	0	2	5	11	14	16	31
5	73	24	93	182	115	40	-5	-20	-27	-17	-20	-6	-2	-2	-2	-2	-1	0	2	10	4	4	9	20
6	29	8	29	30	41	15	24	-3	-8	-24	-66	-57	-65	-38	-146	-114	-394	-156	41	13	11	18	27	21
7	26	31	****	38	32	22	15	-47	-304	-388	-129	-108	-157	-71	-27	-135	-90	-11	14	11	17	19	11	28
8	44	19	13	50	23	15	-59	----	----	----	-216	-51	-38	-50	-30	-80	-26	11	54	23	157	30	27	17
9	30	71	49	33	49	86	-48	-131	-126	-222	-48	-6	-4	-3	-3	-3	-1	0	2	10	24	130	21	9
10	9	36	45	60	139	20	-47	44	-212	-9	-4	-4	-5	-6	-5	-4	-2	0	3	13	146	46	14	28
11	15	20	188	98	71	115	-62	-31	-96	-112	-26	-61	-37	-21	-9	-11	-4	0	5	16	23	29	22	216
12	21	19	28	24	13	22	-49	----	-126	-270	-399	-55	-42	-15	-8	-5	-3	0	3	12	12	36	108	39
13	17	34	40	30	27	16	-1	-18	-62	-21	-18	-9	-11	-7	-6	-3	-1	0	3	14	63	70	19	39
14	65	45	77	64	138	-8	----	-126	-37	-188	-87	-15	-8	-7	-3	-2	-1	0	2	6	26	26	14	23
15	26	42	67	28	65	65	-123	-115	-30	----	-352	-23	-13	-12	-4	-2	-1	0	1	4	16	26	9	23
16	53	45	41	136	66	-10	-11	-118	-194	-248	-23	-10	-5	-5	-6	-3	-1	1	4	29	117	47	27	16
17	35	54	39	25	20	3	1	-31	-86	-493	-351	-92	-38	-13	-13	-7	-3	1	3	12	18	79	80	29
18	20	6	28	21	37	50	62	-9	-13	-18	-11	-7	-7	-6	-6	-6	-2	-1	2	0	0	0	0	2
19	8	36	11	8	11	102	-21	-104	----	-288	-103	-67	-160	-81	-41	-63	-8	-2	1	4	8	2	31	33
20	15	25	9	14	14	14	8	-59	-93	----	----	-75	-125	-46	-29	-10	-8	2	6	23	25	15	12	35
21	31	18	45	37	16	6	44	----	-200	-20	-18	-40	-23	-29	-14	-1	5	8	9	22	69	25	11	14
22	20	26	10	24	17	5	-123	----	-30	-63	-19	-5	-5	-6	-4	-3	-2	0	2	7	27	19	27	43
23	75	37	96	18	34	-3	-134	----	----	-235	-5	-2	-3	-5	-4	-2	-2	-1	2	12	67	35	13	48
24	35	61	51	23	23	10	-47	-15	-98	-323	-9	-9	-6	-4	-5	-5	-2	0	3	15	36	25	18	26
25	17	62	154	469	28	22	----	----	----	-148	-42	-12	-16	-22	-15	-10	-1	5	13	16	25	59	19	96
26	38	77	47	66	109	-3	-157	----	-86	----	-248	-22	-28	-13	-35	-18	-2	2	6	79	43	37	15	18
27	23	21	23	96	28	8	2	-138	-216	----	-64	-8	-6	-8	-7	-4	-3	0	3	20	78	23	29	52
28	77	40	25	138	47	22	----	-82	----	-164	-165	-23	-15	-7	-4	-3	-2	0	4	37	70	88	18	26
29	30	14	159	239	19	65	45	-38	-189	-83	-15	-14	-11	-11	-7	-5	-3	-1	2	6	18	132	129	69
30	47	16	23	56	22	49	1	-117	-85	-110	-14	-4	-5	-5	-5	-4	-2	0	2	8	19	48	17	17
31	34	68	71	56	32	27	-129	----	----	-79	-10	-6	-6	-5	-3	-3	-2	0	2	9	17	16	26	10

PERCENT VALID HOURS FOR JULY, 1994 743*100/ 744= 99.9%

THREE HIGHEST VALUES FOR JULY, 1994 XXXX(DD,HH) = 469(25, 3) 239(29, 3) 216(11,23) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — AUG, 1994

RICHARDSON NUMBER 1 TIMES 100 — RINUM1

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	11	72	23	48	19	24	-26	-260	-185	-71	-4	-4	-5	-4	-3	-2	-1	0	3	11	92	56	14	25
2	65	99	137	26	132	13	-40	----	----	-91	-16	-9	-14	-6	-7	-7	-4	0	7	53	24	39	20	56
3	101	43	61	68	50	133	1161	-285	----	-226	-236	-227	-28	-16	-5	-2	-1	1	5	29	71	28	43	54
4	77	52	54	38	159	49	-71	-141	-190	----	-270	-14	-4	-3	-2	-1	-1	1	5	44	62	61	55	29
5	73	212	48	106	40	45	-171	----	----	-268	-8	-3	-3	-3	-2	-1	0	1	2	10	9	21	8	55
6	30	19	49	35	87	19	118	-23	-28	-23	-5	-8	-6	-5	-6	-10	-3	1	7	15	26	74	13	23
7	32	72	60	96	138	69	-74	----	-42	-40	-10	-8	-13	-6	-5	-2	-3	0	1	1	1	2	3	38
8	17	17	22	25	74	11	19	1	-2	0	0	0	-1	-2	-6	-11	-8	-1	2	4	37	16	11	12
9	10	124	13	18	132	19	-2	----	-187	-18	-7	-6	-7	-11	-21	-5	-2	-4	16	6	5	15	11	6
10	16	20	6	5	12	17	-186	----	-175	-504	-60	-144	-22	-28	-22	-11	-6	-1	4	8	2	44	8	9
11	8	9	7	27	45	21	-90	-96	-196	----	-219	-363	-48	-29	-16	-12	-6	-1	4	16	97	33	82	19
12	8	15	20	30	35	24	19	-1	-4	3	-4	-23	-15	-15	-17	-19	-8	-3	1	6	6	32	14	36
13	28	33	7	23	7	5	-1	-18	-247	-516	-111	-133	-59	-119	-4	-4	-10	-1	7	5	15	12	43	14
14	5	19	74	41	16	8	-8	-67	----	----	-104	-87	-53	-9	-36	-33	-13	1	5	13	14	18	14	35
15	30	19	20	24	43	32	21	-50	-106	----	-285	-102	-39	-16	-11	-10	-5	0	7	14	54	30	27	26
16	147	38	26	31	52	17	-38	-25	----	----	-19	-6	-4	-4	-3	-3	-2	1	5	12	26	24	17	16
17	38	20	60	55	50	58	23	-64	-228	-10	-2	-2	-2	-1	-1	-1	-1	0	1	6	22	26	15	45
18	19	108	23	19	20	20	15	-11	-41	-19	-12	-6	-5	-5	-3	-2	-1	0	4	17	17	19	1	8
19	11	9	5	3	19	16	8	-26	-32	-24	-29	-20	-22	-52	-30	-17	-24	-2	12	7	12	11	20	12
20	15	24	12	26	43	60	-3	-53	----	-292	-16	-7	-7	-6	-4	-2	-1	0	2	5	19	24	192	12
21	14	29	33	115	120	110	8	-30	-46	-5	-2	-2	-2	-2	-3	-2	-1	1	4	23	72	45	15	40
22	21	115	21	11	36	30	184	14	-190	-7	-2	-3	-4	-4	-3	-2	-1	1	7	236	64	65	17	27
23	15	27	65	42	31	11	81	----	----	-178	----	-124	-15	-8	-4	-3	-1	1	6	63	131	18	43	33
24	90	121	135	52	65	13	-152	-37	-143	-206	-31	-4	-5	-4	-4	-3	-1	2	6	17	48	39	51	22
25	86	79	177	43	49	58	13	-54	-62	-2	-2	-3	-3	-3	-3	-2	-1	2	7	110	73	21	45	51
26	105	106	168	66	127	95	-24	----	-206	-33	-3	-5	-6	-5	-3	-2	0	1	4	2	4	2	2	9
27	10	35	13	12	3	5	2	-1	-9	-42	----	----	-147	-293	-77	-54	-13	43	91	49	26	28	50	33
28	19	12	35	24	39	11	-21	-69	-117	-126	-220	-4	-5	-4	-4	-3	-1	1	8	60	1222	43	31	12
29	23	78	46	55	41	41	96	-240	----	-180	-83	-26	-17	-10	-8	-6	-2	3	9	51	16	32	24	26
30	16	123	136	40	17	17	-17	----	-48	-165	-251	-17	-20	-13	-5	-4	-1	2	18	82	235	23	14	18
31	37	109	109	192	27	44	-21	-224	-193	-203	-162	-6	-3	-2	-2	-2	0	1	6	42	46	33	36	30

PERCENT VALID HOURS FOR AUG, 1994 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR AUG, 1994 XXXX(DD,HH) = 1222(28,20) 1161(3, 6) 236(22,19) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — SEPT, 1994

RICHARDSON NUMBER 1 TIMES 100 — RINUM1

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	26	40	47	40	27	36	-18	-75	-79	-39	-10	-3	-4	-3	-3	-2	0	1	4	7	18	10	45	78
2	333	91	46	48	23	16	-58	----	-777	-3	-2	-2	-3	-2	-1	-1	0	1	4	11	18	58	25	24
3	51	22	59	52	68	77	-26	-106	-90	-142	-501	-38	-9	-8	-4	-4	-1	2	12	54	26	31	46	9
4	21	49	35	79	13	12	-84	-343	-100	----	-550	-26	-22	-22	-28	-10	-4	3	16	17	30	39	18	28
5	21	26	44	15	26	27	-47	-135	----	-99	-278	-35	-9	-13	-8	-5	-2	2	14	29	18	93	80	28
6	69	126	81	68	96	33	-276	-81	----	-102	-34	-10	-10	-9	-7	-5	-1	3	18	36	14	39	24	75
7	20	20	59	156	52	29	-17	20	-469	----	-139	-4	-5	-6	-4	-2	0	3	6	11	24	33	33	90
8	67	166	265	37	47	21	-48	-476	-233	-115	-4	-2	-3	-2	-1	-1	0	2	3	11	21	63	19	17
9	37	104	56	47	22	44	-11	----	-107	-70	-10	-4	-4	-3	-4	0	2	2	2	2	3	3	4	2
10	3	3	3	3	3	4	2	0	0	-1	-1	-1	-1	-1	-1	-1	0	1	3	21	25	7	5	4
11	9	6	12	13	76	161	44	1	-1	-1	-2	-2	-2	-2	-2	-1	0	1	6	9	17	100	10	7
12	4	2	4	6	14	12	6	1	-2	-2	-1	-1	-2	-2	-2	-2	0	1	1	9	153	17	5	2
13	3	31	19	35	122	70	34	-193	-50	-23	-14	-12	-6	-9	-6	-4	-1	1	18	46	17	29	19	46
14	23	20	14	17	50	37	-3	-279	-264	-378	-205	-162	-98	-111	-52	-144	-17	16	15	29	86	30	20	42
15	62	32	39	35	40	10	-59	-63	-567	-310	-137	-101	-129	-199	-112	-27	-2	41	56	55	96	63	181	69
16	56	134	62	444	55	78	27	17	-616	-718	-167	-229	-89	-86	-25	-20	34	46	15	38	53	53	21	27
17	38	49	79	131	33	18	50	-89	-64	-846	-822	-871	-189	-18	-28	-3	0	5	14	14	34	45	23	12
18	30	37	48	17	41	26	12	-42	----	-61	-204	-441	-102	-29	-50	-23	2	29	24	30	70	46	11	33
19	37	45	11	17	51	42	13	-33	1	****	****	****	****	-7	-4	-3	-1	1	2	3	2	3	16	141
20	20	9	12	19	54	44	****	****	****	****	****	****	-166	-256	-156	-4	0	1	19	19	6	29	27	9
21	12	25	9	25	44	37	5	-33	-377	----	-428	-110	-60	-87	-217	-99	-25	38	12	14	110	93	20	43
22	31	42	35	37	21	77	29	-518	----	----	-98	-428	-112	-48	-92	-24	2	32	32	37	34	25	79	78
23	15	32	23	18	19	5	-2	-368	----	----	----	-321	-77	-61	-73	-57	10	34	25	66	41	37	18	65
24	39	28	19	80	56	52	19	-186	----	-646	-616	-182	-37	-12	-7	-2	0	6	84	34	15	42	116	43
25	27	34	11	14	19	18	58	-109	-338	----	-894	-62	-36	-37	-12	-8	-2	4	16	35	85	52	27	32
26	32	23	26	73	47	41	-26	-82	-77	-159	-267	----	-622	-312	-62	-20	0	4	11	47	89	27	52	12
27	19	17	29	49	20	23	6	-236	-180	-96	-110	-63	-14	-20	-8	-2	0	2	18	41	26	22	28	61
28	88	138	29	21	37	32	-2	-46	-561	----	-79	-9	-4	-2	-1	-1	1	2	3	4	4	7	16	5
29	5	24	2	5	9	11	-1	-1	-11	-6	-2	-1	2	7	1	1	2	5	4	25	17	41	10	11
30	28	21	26	11	12	30	29	-163	-63	-78	-177	-72	-93	-90	-142	-71	7	90	26	45	29	69	12	38

PERCENT VALID HOURS FOR SEPT, 1994 710*100/ 720= 98.6%

THREE HIGHEST VALUES FOR SEPT, 1994 XXXX(DD,HH) = 444(16, 3) 333(2, 0) 265(8, 2) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — OCT, 1994

RICHARDSON NUMBER 1 TIMES 100 — RINUM1

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	41	28	11	11	181	30	140	-39	-171	-91	-304	-459	-240	-87	-104	-66	-12	20	18	19	104	117	18	60
2	7	42	56	31	50	19	-11	-179	-493	-382	----	-20	-7	-6	-4	-2	1	5	16	52	16	31	31	33
3	16	13	27	32	176	89	49	3	1	0	-1	-17	-172	-451	-35	-12	19	24	29	55	17	52	17	2
4	2	3	33	22	15	13	30	0	-1	-1	-2	-2	-1	-1	-1	0	0	1	7	4	2	1	5	1
5	2	9	5	2	2	1	0	-1	-2	-2	-3	-5	-4	-5	-6	-9	-1	6	5	11	38	60	37	40
6	24	20	8	12	9	41	-31	-107	-180	----	-225	-319	-150	-220	-65	-42	-4	13	9	14	50	19	25	20
7	13	11	22	53	49	33	28	-1	-151	-238	-19	-19	-13	-12	-9	-2	1	7	12	13	17	91	40	35
8	37	7	16	62	39	31	43	2	-6	-24	-30	-97	-277	-154	-261	-332	7	16	19	31	22	22	37	36
9	22	32	69	16	40	5	1	-75	-80	----	-608	-634	-224	-171	-47	-36	17	36	22	11	26	42	47	23
10	24	52	44	37	30	31	8	-177	-226	-109	-567	-46	-4	-5	-3	-1	2	11	231	128	50	81	45	78
11	38	71	25	13	40	19	15	-350	-61	-139	-71	-14	-6	-7	-7	-2	3	14	87	35	40	22	30	36
12	55	16	13	19	16	34	-10	----	----	-101	-44	-23	-4	-2	-1	0	1	3	6	8	16	3	2	3
13	2	5	25	10	9	28	40	-27	-176	-151	-342	-263	-355	-66	-74	-54	23	49	30	12	14	3	1	6
14	5	11	10	16	33	52	19	-114	-509	-293	-181	-28	-8	-6	-4	-1	0	1	1	2	1	1	0	0
15	1	3	3	6	9	5	2	-2	-449	-18	-10	-6	-6	-8	-3	-1	0	6	36	18	39	15	9	12
16	68	44	29	17	6	6	-12	-426	-132	-184	-143	-34	-19	-29	-16	-12	-1	4	11	8	45	51	23	11
17	9	41	14	14	-5	-8	-60	-82	-983	----	-186	-184	-57	-165	-173	-56	8	12	10	27	9	98	47	23
18	20	21	19	14	20	26	-44	----	-152	-46	-246	-88	-23	-18	-10	-4	3	21	97	40	24	26	17	32
19	34	32	23	29	24	27	-10	-54	----	-150	----	-430	-239	-83	-65	-72	95	20	33	16	24	13	16	29
20	41	40	93	85	64	28	6	-330	-279	-200	----	-101	-145	-20	-26	-10	9	12	14	31	66	38	118	16
21	39	23	9	19	61	47	8	-40	-27	-31	----	----	-983	-132	-11	-1	6	17	15	23	40	36	38	17
22	52	21	175	22	12	15	31	-303	-71	-620	-284	-344	-147	-42	-5	1	9	21	24	32	46	35	154	40
23	21	16	28	47	13	70	59	-120	----	-440	-327	3	-252	-82	-18	-1	7	24	30	27	43	51	26	48
24	13	18	23	19	27	13	17	1	-70	-107	-229	-112	-167	-180	-100	-14	23	12	42	129	45	25	31	95
25	53	51	87	69	101	39	1	-7	-26	-380	-842	----	-410	-163	-64	10	15	11	84	143	37	39	62	65
26	50	52	89	46	75	25	-8	----	-6	-60	-401	-140	-597	-325	-155	-4	5	13	17	41	46	117	21	57
27	21	34	26	8	32	36	8	-99	-152	-277	38	-131	-201	-3	-5	0	11	30	58	83	33	20	105	79
28	36	24	13	41	51	10	5	-177	-15	-6	-972	-149	-198	-176	-46	1	7	11	64	59	35	42	116	47
29	14	33	104	65	38	45	23	36	-78	-186	-418	-407	-323	-90	-55	-12	23	18	72	18	31	50	17	24
30	23	23	19	13	22	23	20	19	1	-7	-16	-6	-9	-6	-5	1	9	12	29	38	96	27	80	51
31	43	51	23	18	34	13	-1	-65	-52	-543	----	-332	----	-215	----	177	171	27	20	33	75	379	30	27

PERCENT VALID HOURS FOR OCT, 1994 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR OCT, 1994 XXXX(DD,HH) = 379(31,21) 231(10,18) 181(1, 4) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — NOV, 1994

RICHARDSON NUMBER 1 TIMES 100 — RINUM1

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	48	28	44	83	10	37	0	-162	-51	-81	-72	-67	-4	-1	0	1	3	5	3	2	2	3	3	4
2	3	2	6	5	4	2	2	2	2	1	-3	-10	-15	-9	-2	-1	0	0	0	4	0	0	-1	-2
3	-1	-3	-3	1	3	4	7	2	-7	-4	-4	-5	-6	-3	-3	-2	1	19	18	18	29	10	30	57
4	77	8	7	14	64	106	20	-1	-168	-53	-377	-356	-153	-84	-25	-2	7	16	40	55	22	14	23	8
5	11	12	32	-1	-12	-5	6	-143	-159	-255	-207	-157	-220	-340	-48	-15	25	17	16	11	24	12	29	99
6	29	109	50	69	39	69	90	-10	-50	-237	-239	-181	-356	-72	-39	9	41	29	12	19	64	89	31	67
7	17	25	20	18	10	13	4	-113	-108	-205	-157	-245	----	-50	-8	174	659	26	45	74	60	51	36	13
8	1	-10	-9	3	16	35	38	-72	-32	-111	-107	-84	-107	-47	-6	-1	4	14	14	22	31	31	21	30
9	81	21	12	33	35	24	2	-149	-251	----	-377	-36	-18	-24	-40	-3	7	31	9	19	19	26	29	37
10	42	123	22	97	15	31	41	28	-2	-33	-7	0	-1	0	2	1	5	1	3	3	6	13	26	62
11	46	22	15	28	51	30	24	-14	-142	-163	-220	-249	-773	-818	-19	-5	3	4	3	14	12	27	13	7
12	19	12	38	25	40	22	51	-73	-12	-86	-5	-4	-5	-5	-3	-1	4	17	20	62	40	2	7	6
13	14	14	18	28	34	48	89	60	-1	-16	-3	-14	-18	-11	-7	0	3	5	12	36	71	40	52	20
14	62	34	18	20	12	10	12	12	-7	-121	-57	-139	-73	-75	-44	6	11	14	11	59	27	41	76	79
15	61	68	37	65	9	16	-7	-41	-131	-147	----	-80	-50	-76	-36	16	22	20	18	9	11	12	18	33
16	16	24	9	28	13	7	9	3	1	-14	-80	-26	-7	-4	-3	-1	1	0	5	2	2	4	26	28
17	37	38	78	18	7	7	36	-22	-363	-6	-18	-4	-2	-6	-1	0	11	18	2	2	2	0	0	2
18	2	1	1	1	1	3	16	6	7	4	5	9	5	7	10	10	12	39	15	63	14	6	4	12
19	15	23	10	18	51	39	57	22	37	41	18	15	39	94	45	76	40	62	21	11	15	34	21	73
20	23	37	67	12	23	14	23	6	-3	91	33	54	52	130	26	36	48	24	39	18	26	28	12	9
21	3	0	1	2	9	-1	0	-17	0	46	-6	-9	-39	-84	-217	18	55	37	32	12	12	13	23	88
22	138	49	34	48	31	18	15	11	7	2	1	0	0	0	2	3	9	12	27	50	46	8	10	14
23	30	204	85	49	20	19	26	-8	-19	349	-530	----	272	-226	-130	60	411	29	18	96	28	35	23	25
24	25	13	13	9	10	29	16	-17	-2	7	-294	-495	-162	-7	-112	55	77	21	24	44	25	54	54	61
25	77	15	7	26	23	31	14	1	-3	-122	2	0	0	0	0	0	1	1	1	1	1	1	1	1
26	1	2	3	1	1	1	5	2	0	0	-2	7	0	0	1	2	5	4	10	20	25	15	26	16
27	102	58	31	55	11	33	18	10	11	-25	-40	-208	-18	-7	-2	2	16	23	31	35	103	32	38	12
28	27	12	18	19	9	9	15	0	12	----	-13	-115	2	-1	3	26	14	24	54	54	21	128	34	42
29	53	81	21	37	21	24	54	80	14	0	-43	-590	40	-734	100	70	84	27	33	27	34	136	173	30
30	37	76	72	78	28	79	41	17	-176	-40	-1	43	61	46	-99	120	54	32	22	32	18	25	35	23

PERCENT VALID HOURS FOR NOV, 1994 720*100/ 720=100.0%

THREE HIGHEST VALUES FOR NOV, 1994 XXXX(DD,HH) = 659(7,16) 411(23,16) 349(23, 9) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — DEC, 1994

RICHARDSON NUMBER 1 TIMES 100 — RINUM1

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	31	19	53	85	53	84	17	6	67	92	----	-62	411	-162	54	50	179	25	51	46	67	36	39	32
2	24	19	15	31	22	26	10	-4	19	-81	----	-4	-5	39	26	23	52	22	16	24	47	31	113	67
3	149	26	72	14	18	8	168	51	-20	-50	-62	-425	-22	-7	20	22	33	20	21	19	32	41	20	32
4	31	108	31	61	48	20	-1	-3	-33	-26	-31	-1	-8	21	26	101	74	36	66	18	9	50	32	18
5	30	17	16	27	33	19	16	8	-14	-58	-301	-134	-96	-13	-17	4	52	248	12	7	12	15	28	10
6	18	19	17	60	17	4	10	-6	-104	-73	-305	-304	-9	-28	-8	2	5	16	47	24	35	24	26	31
7	100	32	22	14	30	17	14	-7	-23	-7	-44	-93	-124	-37	-5	6	11	25	98	178	35	78	50	75
8	58	93	31	67	32	20	22	12	2	0	-1	-2	-2	-3	-1	5	18	****	****	****	****	****	****	****
9	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
11	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
12	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
15	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
18	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	114	77	75	40	80	42	34	57	240
20	67	34	62	47	57	36	48	183	305	265	734	486	368	352	317	84	59	17	139	41	38	67	83	197
21	135	72	34	36	67	33	124	55	104	146	435	136	438	143	223	131	232	39	69	95	30	111	202	80
22	83	41	45	22	97	101	45	103	38	55	22	32	28	24	22	43	64	41	55	32	24	67	127	149
23	45	23	8	12	31	60	29	45	57	225	143	113	476	124	197	50	45	57	122	13	10	31	48	40
24	26	81	22	32	29	73	100	205	495	282	172	25	99	32	65	33	47	62	31	22	3	30	28	33
25	42	36	48	5	12	11	16	46	27	29	7	10	63	6	10	19	10	11	8	4	8	46	5	15
26	45	16	15	19	13	38	86	6	9	6	4	6	6	12	22	16	14	17	65	44	8	64	38	27
27	17	83	41	26	36	41	48	49	79	125	367	153	1055	400	284	49	91	65	114	93	40	28	114	51
28	97	44	75	86	39	39	57	31	30	100	166	134	21	12	143	39	62	36	107	4	4	44	33	29
29	22	13	8	10	57	52	36	29	94	85	93	120	4	2	6	15	139	74	47	29	47	16	25	16
30	15	15	13	11	8	22	30	215	30	10	4	10	73	59	45	148	84	24	24	56	74	47	21	41
31	133	64	11	234	12	285	22	55	65	125	77	138	87	281	186	88	70	73	28	39	29	54	53	87

PERCENT VALID HOURS FOR DEC, 1994 482*100/ 744= 64.8%

THREE HIGHEST VALUES FOR DEC, 1994 XXXX(DD,HH) = 1055(27,12) 734(20,10) 495(24, 8) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — JAN, 1994

RICHARDSON NUMBER 2 TIMES 100 — RINUM2

HOUR

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	12	134	52	100	77	77	13	17	----	-923	----	----	-290	-2	-33	257	++++	69	372	137	871	72	93	106
2	219	304	56	26	12	-2	9	-39	-364	-60	-139	-96	1514	----	-31	155	149	107	39	96	37	4870	1222	177
3	42	282	99	81	65	79	24	----	----	615	-264	-593	----	-50	4746	22	143	292	95	91	++++	784	188	135
4	15	140	47	58	14	8	17	10	0	-105	-248	-171	----	----	125	94	49	3112	40	909	295	91	16	34
5	17	11	37	39	104	272	35	20	0	-24	-32	----	-129	-527	1	2	2	1	2	9	9	17	81	62
6	63	95	173	75	73	87	22	16	-54	-39	-49	-2	-2	-2	-1	1	11	14	20	64	48	34	174	38
7	145	24	103	18	14	-12	36	-125	-323	----	-85	-50	----	-317	0	20	53	39	21	48	138	123	100	56
8	64	278	401	77	18	-19	19	11	-194	----	-166	-35	-4	----	-29	8	18	18	423	47	41	51	39	43
9	24	12	120	-149	9	-28	17	-42	-141	-545	-300	-69	-95	----	----	-13	361	64	94	19	25	81	12	11
10	38	203	27	4	61	14	63	12	4	1	-2	-6	-10	-9	-3	9	22	26	22	533	44	45	43	48
11	38	85	38	25	21	-18	106	-14	-282	----	-101	----	-175	-26	----	15	18	8	9	13	11	15	22	15
12	9	54	118	56	33	30	31	29	13	10	-5	-8	-11	-6	0	4	12	16	14	11	9	264	20	13
13	231	30	41	58	165	89	116	-70	-109	-254	-61	----	-869	-70	5	5	9	7	6	29	15	21	56	170
14	30	49	27	23	178	29	18	21	513	-14	----	----	----	----	-536	8764	52	162	105	69	76	21	61	121
15	18	18	98	53	32	1280	125	21	----	-10	-58	----	-57	48	7	34	16	39	43	32	165	47	41	43
16	74	26	34	117	47	37	19	-40	-171	-220	----	----	-3	0	1	3	7	18	36	72	33	38	31	264
17	103	61	238	457	75	13	20	42	-219	-18	-88	-199	-261	-998	----	507	++++	252	57	26	29	115	25	235
18	3142	232	745	117	168	2052	50	-11	----	----	-63	328	-183	-127	63	523	98	41	616	355	64	61	221	365
19	151	131	361	83	90	335	47	-111	-223	1	21	-425	-186	----	++++	204	114	41	64	233	1029	46	697	++++
20	++++	416	122	149	127	356	47	-24	----	-110	-20	204	1108	-44	229	280	161	48	89	70	355	240	258	++++
21	540	++++	195	161	127	2705	78	-18	-902	-768	----	-37	----	16	88	150	85	141	1351	63	379	119	135	86
22	50	41	21	84	442	208	129	153	-160	-672	-37	-258	12	34	-67	52	1449	97	48	116	163	610	56	1572
23	443	71	66	-18	484	39	----	-172	-79	-60	-45	-50	-23	5	7	3	7	8	15	23	51	100	70	321
24	168	111	63	119	51	63	143	13	----	-20	-492	-174	-5	-10	2	10	74	14	37	42	95	47	26	7
25	7	4	4	1	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
27	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
28	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
29	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
31	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****

PERCENT VALID HOURS FOR JAN, 1994 580*100/ 744= 78.0%

THREE HIGHEST VALUES FOR JAN, 1994 XXXX(DD,HH) = ++++(1,16) ++++(20,23) ++++(19,23) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — FEB, 1994

RICHARDSON NUMBER 2 TIMES 100 — RINUM2

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	****	****	****	****	****	****	****	****	****	****	****	-62	-71	-38	-24	289	299	527	64	43	120	79	53	43
2	12	122	66	51	85	73	-52	-291	-151	----	-25	-337	-42	----	-106	-30	17	140	17	22	103	204	33	19
3	52	19	32	53	51	45	30	-47	-273	----	-138	-97	-24	-19	-16	-4	16	18	17	75	28	70	15	2
4	4	1	0	5	-7	-12	-126	----	-97	-85	-532	----	----	-160	-180	-195	-116	-1	-7	7	14	1	-54	9
5	19	16	-1	51	95	0	-31	----	-203	-135	----	----	----	-105	-268	-170	-3	25	318	19	12	20	36	13
6	140	43	13	23	10	35	61	-30	-57	----	-668	----	-189	-145	-58	-29	-17	4	43	29	28	10	6	282
7	10	26	7	81	11	-1	12	-32	-140	-236	-243	-177	-52	-76	-8	-4	8	****	****	****	****	****	****	****
8	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
9	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
11	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
12	****	****	****	****	****	****	****	****	****	****	****	****	-295	-605	-69	75	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
15	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
18	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	34	46	33	221	105	60
21	179	32	30	29	145	492	31	33	-768	-280	-67	-566	-68	-36	-15	-10	2	6	24	52	169	202	140	55
22	135	31	332	75	141	20	7	11	4	-2	-11	-18	-21	-14	-15	-7	0	7	8	10	17	164	230	****
23	****	****	****	****	****	****	****	****	****	****	44	-451	----	----	----	6	1	528	26	17	134	72	31	34
24	65	25	-31	-14	-5	2	-10	-29	-43	-24	61	-285	-19	-17	-17	-4	5	19	28	31	++++	282	151	388
25	79	685	139	102	67	70	16	-161	-278	-184	-442	422	-210	----	-124	-4	4	21	168	92	36	80	84	49
26	713	289	102	93	27	59	20	-81	-617	-547	-66	----	-37	-36	-1	0	2	5	11	34	84	454	99	135
27	105	29	71	86	44	66	54	10	----	-36	-47	-18	-7	-2	11	7	7	7	11	11	145	10	5	7
28	41	9	24	22	14	35	151	138	2	-3	-7	-9	-29	-17	-11	-3	3	8	11	5	7	23	89	17

PERCENT VALID HOURS FOR FEB, 1994   341*100/ 672= 50.7%

THREE HIGHEST VALUES FOR FEB, 1994 XXXX(DD,HH) = ++++(24,20)   713(26, 0)   685(25, 1)   (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — MAR, 1994

RICHARDSON NUMBER 2 TIMES 100 — RINUM2

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	22	15	26	76	67	399	37	74	-91	----	----	-6	-7	-17	-20	-9	1	7	45	30	2231	49	161	52
2	241	895	++++	818	735	20	59	----	----	-133	----	----	-530	----	-486	-68	-85	171	3078	47	46	52	895	191
3	73	1052	162	659	567	407	159	-45	----	----	81	----	----	-663	-44	-11	5	13	16	27	245	173	59	658
4	++++	524	443	42	175	188	42	----	-84	----	-123	----	-121	-89	-76	-27	4	11	18	178	35	37	81	59
5	106	63	105	345	348	155	7	-14	----	-34	-66	-340	-132	-23	-1	0	2	12	25	273	++++	102	8	8
6	28	46	20	24	36	40	24	532	----	-29	----	-28	-8	-2	-2	-1	8	32	211	32	****	2	2	11
7	113	65	22	38	14	62	72	49	11	-94	-350	-498	-42	-21	-11	-11	16	26	57	75	109	93	214	51
8	22	13	22	609	98	36	27	21	----	-111	-505	-785	-94	-781	-23	-26	-160	36	47	38	69	1686	53	35
9	126	21	158	64	903	231	74	-216	-112	-225	----	-293	----	-498	-380	-99	-8	18	15	41	25	24	170	66
10	128	43	27	-23	324	28	205	-21	-16	-211	----	-92	-9	-5	-4	-2	1	3	10	21	21	9	31	15
11	846	275	48	15	10	4	19	8	1	-6	-6	-4	-4	-3	-3	-1	0	0	1	1	2	6	5	2
12	3	1	3	6	6	5	14	4	-4	-6	-7	-5	-5	-8	-3	-2	0	3	14	15	18	8	13	20
13	11	191	193	14	6	28	5	3	-6	-10	-14	-615	-176	-167	-21	-13	3	58	63	372	24	37	57	14
14	38	++++	56	40	55	60	54	-65	----	----	-302	-657	-544	-174	-457	-371	-68	60	26	136	42	128	359	131
15	++++	59	824	467	++++	479	80	----	-152	-117	-140	-90	-79	-13	-12	-2	1	5	31	131	99	173	1752	113
16	1828	502	1674	168	238	610	577	9	1	-1	-3	-4	-6	-5	-5	-4	0	4	10	18	11	11	33	28
17	33	657	523	35	31	52	20	25	-25	-38	-160	-82	-229	-192	-27	-9	-3	8	29	226	11	52	34	78
18	30	39	26	-81	-16	8	4	1	0	-3	-4	-4	-5	-4	-3	-2	-1	1	4	8	3	2	4	8
19	12	13	4	3	3	10	2	1	0	-2	-3	-4	-5	-4	-6	-5	-1	0	0	0	1	-1	-4	-88
20	20	12	++++	1021	864	40	27	-28	-41	-83	-187	-204	-199	-773	-127	-58	-74	2	7	9	26	130	39	94
21	87	31	2	14	7	-2	-100	----	-265	-205	-96	-20	-14	-8	-7	-4	-2	1	3	10	1268	57	33	98
22	20	13	47	28	24	79	23	1	-1	-1	-1	-1	-1	-2	-2	-2	-1	3	9	18	11	22	18	79
23	49	89	44	367	211	60	46	-59	-57	-382	-387	----	----	-451	-697	-121	-36	3	12	87	16	50	16	33
24	19	14	18	32	++++	11	8	-6	----	-94	-30	-117	-97	-41	-12	-9	-3	7	25	24	135	19	264	46
25	35	75	53	22	3	1	-2	1	3	34	9	5	-10	-12	-8	-6	-7	-3	1	2	19	10	36	254
26	38	40	70	22	17	3	7	-72	-112	-410	-12	-12	-9	-14	-9	-3	0	8	24	739	73	1717	456	247
27	36	110	251	++++	1062	13	237	222	60	-143	-14	-16	-13	-5	-5	-3	0	5	134	60	140	145	47	227
28	103	22	108	141	1632	52	32	-79	1635	----	-108	----	-88	-18	-10	-3	3	10	35	2990	59	134	196	332
29	80	77	89	57	49	++++	7	----	56	6185	7473	----	-389	-525	-65	-92	-6	17	20	88	93	241	80	125
30	26	143	69	199	1047	42	82	39	13	-231	-133	-129	-98	-22	-51	-171	-21	8	13	103	11	12	18	52
31	220	1739	297	64	187	129	-226	-325	-897	-197	-135	-10	-6	-6	-5	-4	-1	4	10	29	22	17	43	62

PERCENT VALID HOURS FOR MAR, 1994 743*100/ 744= 99.9%

THREE HIGHEST VALUES FOR MAR, 1994 XXXX(DD,HH) = ++++(5,20) ++++(2, 2) ++++(27, 3) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — APR, 1994

RICHARDSON NUMBER 2 TIMES 100 — RINUM2

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	67	36	123	219	55	58	-67	-462	-288	-9	-10	-23	-49	-73	-76	-32	-17	19	22	19	34	59	135	87
2	337	53	902	45	36	33	102	-297	-132	----	-366	-233	-882	-805	-178	-116	-16	37	157	113	83	23	14	56
3	102	43	147	101	14	31	38	6	-1	-2	-3	-5	-6	-6	-3	-3	-7	2	4	6	5	2	3	36
4	1911	22	49	34	33	116	15	-72	-73	-116	-65	-134	-61	0	-13	-3	-1	1	4	7	11	46	21	25
5	44	204	41	80	69	68	158	-259	----	****	****	****	****	****	****	-32	-10	5	14	17	41	25	83	652
6	216	301	514	57	26	29	-125	-43	-27	-272	----	-916	-106	-250	-19	-7	-4	3	194	30	7	6	4	12
7	101	52	29	25	30	189	2	----	-658	-136	-98	-122	-58	-54	-28	-14	-8	3	16	26	1272	54	90	77
8	21	154	38	61	19	38	8	-9	-21	-32	-52	-100	-18	-7	-4	-2	-3	-1	2	2	2	1	2	2
9	8	5	4	6	17	8	1	-1	-9	222	-631	-78	-8	-5	-11	-7	0	2	11	16	8	105	88	35
10	27	83	76	98	62	178	140	-436	-36	-9	-13	-8	-11	-6	-6	-3	-1	0	2	3	3	7	8	6
11	9	8	7	12	21	197	90	-70	-91	-234	-335	-461	-171	-217	-176	-97	-111	-6	21	43	14	118	38	223
12	94	584	575	1367	++++	277	32	----	----	----	----	-593	-151	-58	-38	-38	-8	2	24	49	36	72	119	319
13	1122	1327	43	107	152	120	-694	-182	----	-79	-288	-71	-34	-31	-21	-11	-4	2	11	40	37	35	33	423
14	295	176	38	24	22	19	-10	-347	-141	----	-596	-230	-162	-42	-34	-25	-18	26	25	31	243	12	18	21
15	10	7	6	8	10	6	36	-266	-18	-35	-22	-88	-196	-135	----	-135	-116	17	165	29	14	20	647	++++
16	962	804	53	130	589	139	----	----	----	-173	-630	-171	-44	-58	-22	-18	-3	10	112	38	14	26	59	39
17	693	125	2872	64	-26	11	----	----	----	----	-744	-203	-34	-26	-6	-8	-3	-1	2	17	48	26	82	65
18	10	29	81	43	831	243	-474	----	----	-360	----	-316	-45	-366	-75	-110	-39	-9	8	19	58	99	85	2798
19	245	35	30	-7	42	43	----	----	----	----	----	----	-102	-76	-40	-48	-40	-8	7	13	56	66	297	21
20	-6	27	366	140	447	257	-673	----	----	----	----	-227	-34	-19	-14	-14	-10	-5	5	16	11	20	132	67
21	284	14	184	508	27	24	----	-953	----	-376	-33	-6	-6	-7	-9	-6	-6	-3	-1	1	2	18	47	21
22	8	3	4	28	205	4	-34	-126	-423	-109	-69	-51	-16	-7	-7	-7	-9	-5	0	0	32	6	60	-2
23	-2	0	0	-1	0	1	-5	-5	-4	-4	-4	-4	-4	-3	-4	-3	-2	-1	-1	-1	-1	-1	-1	-1
24	-1	-1	-1	-2	3	0	-2	-6	-8	-9	-12	-21	-33	-31	-22	-20	-10	-11	-7	-15	-12	-43	2	-8
25	10	11	4	1	0	-8	-16	-18	-5	-6	-8	-9	-5	-4	-11	-11	-4	-2	-3	-4	-4	0	6	24
26	27	18	-11	15	1	-48	----	-380	----	----	-411	-64	-20	-19	-13	-16	-14	-11	-3	-6	-59	-21	-10	-8
27	-16	-120	-58	-691	-53	-30	-31	-66	-97	-20	-31	-10	-14	-15	-28	-17	-10	-60	-64	-39	-23	-12	-36	-69
28	-258	-28	-28	-19	-34	-102	-225	----	----	-369	-52	-168	-60	-13	-11	-61	-203	-31	-11	1	3	2	5	122
29	76	21	16	6	-1	12	-263	----	----	----	-131	-47	-34	-190	-169	-129	-95	-149	16	13	22	10	24	13
30	64	16	41	-54	-1	-8	-94	----	----	----	-842	-128	-37	-13	-9	-7	-12	-13	-6	2	27	23	26	18

PERCENT VALID HOURS FOR APR, 1994   714*100/ 720= 99.2%

THREE HIGHEST VALUES FOR APR, 1994 XXXX(DD,HH) = ++++(12, 4)   ++++(15,23)   2872(17, 2)   (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — MAY, 1994

RICHARDSON NUMBER 2 TIMES 100 — RINUM2

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	248	59	5	18	7	2	-35	-518	-382	----	-305	-249	-424	-132	-190	-217	-99	-63	-25	14	42	19	30	284
2	8	32	197	7	13	-206	-109	----	-737	----	----	-361	-81	-58	-61	-22	-12	-7	0	18	14	0	25	507
3	33	23	-1	187	42	-58	----	-995	----	----	----	-768	-171	-50	-35	-24	-25	-19	4	16	35	58	1009	23
4	21	-38	84	63	13	-49	----	-249	----	----	----	-68	-72	-38	-10	-7	-6	-3	-3	2	7	11	6	3
5	34	17	4	84	56	763	-105	-86	-648	-39	-12	-15	-11	-8	-9	-11	-6	-5	0	-3	1	-1	-3	13
6	-1	2	7	32	48	-41	-9	-11	-8	-9	-10	-5	-5	-6	-5	-5	-5	-3	-3	-2	-3	-5	-15	-8
7	0	2	-31	35	6	-914	-336	-424	-352	-336	-127	-76	-38	-27	-47	-36	-39	-14	-16	-14	-8	-11	-10	-7
8	-8	-19	-35	-29	-22	-30	-43	-44	-50	-174	-81	-24	-25	-94	-27	-197	-124	-687	-36	8	1	18	15	42
9	243	25	0	-128	-125	----	-238	-121	-153	-66	-9	-18	-12	-23	-38	-10	-4	-12	-18	1	3	6	8	11
10	4	3	18	2	15	-127	----	-265	-195	----	----	-410	-194	-63	-18	-21	-17	-20	-21	3	-11	5	7	17
11	5	3	20	90	33	21	----	-767	----	----	-499	-516	-93	-154	-154	-5	-36	-16	-20	-8	3	4	60	67
12	17	19	18	3373	167	-23	----	-507	----	-522	-390	----	-61	-62	-31	-13	-7	-5	-5	-2	-3	-3	9	-1
13	-6	19	5	-35	14	-21	----	----	----	----	-435	-517	-273	-365	-22	-14	-57	-33	-5	45	12	45	47	30
14	42	16	328	11	67	-12	----	----	----	----	-207	-96	-18	-17	-9	-8	-5	-2	1	7	6	1	1	1
15	1	3	8	12	210	92	5	-4	-3	-5	-6	-5	-4	-4	-2	-2	-1	0	1	3	5	3	4	3
16	3	14	13	3	2	1	-1	-2	-3	-3	-4	-5	-5	-4	-3	-2	-1	-1	0	-1	-2	2	11	69
17	129	22	84	72	140	63	-592	----	-448	-123	-10	-7	-6	-7	-10	-5	-3	-2	1	2	1	1	4	18
18	11	23	11	4	4	20	-45	-300	-21	-10	-9	-7	-7	-7	-6	-6	-5	-1	0	3	7	32	22	142
19	1120	192	459	49	186	92	-32	-417	-242	-168	-108	-472	-117	-50	-45	-38	-24	-21	-4	10	24	37	350	++++
20	50	18	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
21	****	110	107	194	372	940	-756	----	----	----	-64	-65	-49	-47	-91	-28	-6	-1	5	20	58	32	164	69
22	115	297	283	101	378	87	413	-121	----	----	-318	-75	-42	-40	-29	-17	-13	-2	8	11	21	64	227	227
23	81	83	609	++++	364	278	-393	-134	----	----	-347	-154	-65	-50	-43	-45	-11	-2	0	336	19	181	2477	829
24	488	127	300	140	36	9	-8	-28	-505	-103	-474	-18	-22	-25	-70	-92	-211	-5	2	2	74	31	24	26
25	50	997	412	273	1206	35	-24	-247	-116	----	-91	-85	-60	-113	-196	-65	-31	-15	-4	1	7	35	16	24
26	50	17	21	22	41	3768	-91	-433	-126	-71	-223	-194	-85	-58	-12	-7	-29	-4	0	1	2	46	34	11
27	47	39	159	89	13	7	-3	-249	-38	-6	-5	-6	-5	-5	-7	-4	-3	-1	2	9	16	20	24	10
28	28	18	53	863	988	2759	-8	-181	-93	-120	-44	-35	-32	-19	-14	-13	-7	-2	15	33	48	35	61	295
29	232	45	188	293	385	62	-949	----	----	----	-392	-119	-28	-23	-10	-9	-4	1	9	51	28	18	42	793
30	110	++++	++++	++++	219	9	-655	----	-360	----	-960	-314	-11	-4	-5	-14	-2	1	2	1	4	30	8	4
31	1	5	3	43	27	4	-66	-285	-115	-11	-14	-32	-66	-69	-174	-34	-16	-4	10	15	25	55	57	35

PERCENT VALID HOURS FOR MAY, 1994 721*100/ 744= 96.9%

THREE HIGHEST VALUES FOR MAY, 1994 XXXX(DD,HH) = ++++(30, 3) ++++(23, 3) ++++(30, 2) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — JUNE, 1994

RICHARDSON NUMBER 2 TIMES 100 — RINUM2

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	639	361	67	150	86	12	-51	-11	-94	-91	-389	-715	-643	-41	-78	-81	-37	10	106	24	106	69	122	31
2	24	101	259	75	63	72	-788	-437	-609	----	212	89	****	-95	-35	-10	-3	0	3	15	113	416	37	32
3	30	64	172	96	39	7	-3	-26	-472	-17	-6	-9	-6	-4	-3	-4	-3	0	4	8	48	812	101	167
4	126	808	35	74	144	95	-8	-401	-46	-22	-37	-54	-45	-20	-13	-12	-4	1	6	28	118	22	77	38
5	34	297	59	++++	596	41	----	-228	-446	-501	-81	-10	-5	-4	-4	-3	-2	0	3	8	3	6	3	4
6	8	6	15	50	16	11	-1	-5	-7	-3	-3	-5	-5	-5	-5	-2	-1	0	1	3	4	4	11	11
7	15	112	79	81	19	14	-30	-87	-991	-786	-361	-70	-73	-47	-55	-29	-10	-2	5	13	47	++++	1618	59
8	97	41	74	60	36	3	1	-7	-42	-174	-259	-168	-270	-136	-235	-71	-106	-7	8	15	57	100	402	46
9	69	1851	128	98	287	++++	-113	-160	-382	----	----	-557	-781	-474	-128	-43	-32	-4	10	18	36	164	323	455
10	744	519	536	1029	152	332	80	-533	-144	-553	----	-269	-66	-52	-64	-20	-15	-1	10	27	34	192	3922	62
11	113	72	41	3304	83	68	-13	-151	----	-214	-65	-28	-21	-33	-14	-8	-4	0	3	13	159	935	121	64
12	85	54	68	176	115	++++	----	----	----	-220	-21	-23	-19	-8	-6	-4	-3	-1	3	20	35	75	50	20
13	369	155	324	1374	44	28	-41	-164	-97	-21	-6	-7	-7	-5	-3	-2	-1	0	2	6	47	69	71	21
14	36	107	40	98	104	37	-1	-6	-7	-4	-3	-4	-6	-5	-4	-3	-3	-1	1	2	2	3	2	3
15	9	11	15	74	47	10	-12	-4	-2	-2	-3	-5	-5	-5	-5	-3	-2	0	1	3	3	5	5	10
16	12	16	26	90	85	48	1	-260	-60	-38	-18	-9	-7	-6	-4	-6	-5	-1	4	9	12	18	81	22
17	55	1046	570	964	1084	115	-987	-232	-163	-56	-7	-6	-5	-5	-5	-4	-3	0	2	5	20	12	44	28
18	60	27	58	429	717	809	-601	-910	-89	-114	-22	-10	-5	-5	-5	-5	-3	0	3	65	3700	27	142	60
19	77	212	378	186	1307	++++	45	-689	----	-388	-158	-35	-32	-14	-11	-7	-4	-1	5	76	418	60	++++	52
20	++++	66	28	47	48	25	----	----	----	-655	-35	-10	-10	-8	-6	-5	-5	-3	2	11	79	30	61	57
21	24	31	83	11	11	5	9	23	-43	-18	-50	-29	-19	-17	-13	-14	-8	-2	5	23	32	38	819	150
22	443	82	100	3309	190	47	-144	-907	-80	-54	-13	-7	-8	-6	-6	-5	-3	-1	4	23	38	29	33	22
23	56	56	108	119	286	771	-293	----	----	-33	-10	-7	-8	-6	-6	-5	-3	1	8	113	554	66	37	24
24	118	70	459	301	218	51	-259	----	-55	-189	-130	-15	-12	-9	-6	-5	-3	1	6	82	117	32	326	216
25	253	145	1376	81	73	11	-42	-423	-243	-8	-7	-6	-8	-7	-5	-3	-2	0	2	9	28	217	223	17
26	22	94	31	12	6	4	2	-1	-3	-6	-15	-11	-6	-6	-5	-3	-2	0	1	2	4	6	16	8
27	15	511	17	225	541	588	225	----	-173	-22	-23	-19	-18	-13	-11	-9	-4	-1	3	5	6	15	146	25
28	25	121	30	163	47	64	-134	----	----	----	-130	-42	-14	-9	-8	-6	-3	-2	6	25	134	42	41	136
29	88	60	32	843	220	402	----	----	-157	----	-138	-23	-15	-12	-17	-6	-4	-1	4	15	14	9	13	26
30	104	129	152	53	208	93	5	-385	-290	-641	-53	-11	-13	-10	-10	-6	-3	1	5	6	8	11	7	6

PERCENT VALID HOURS FOR JUNE, 1994 719*100/ 720= 99.9%

THREE HIGHEST VALUES FOR JUNE, 1994 XXXX(DD,HH) = ++++(9, 5) ++++(19, 5) ++++(12, 5) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — JULY, 1994

RICHARDSON NUMBER 2 TIMES 100 — RINUM2

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	12	40	11	47	27	403	16	-18	-6	-5	-4	-3	-5	-3	-3	-3	-1	0	2	10	6	9	11	26
2	9	9	26	24	61	307	53	-6	-6	-12	-15	-14	-12	-12	-10	-17	-5	0	2	4	10	42	31	97
3	46	35	479	++++	++++	++++	----	-26	-18	-32	-48	-51	-42	-15	-11	-8	-5	-2	4	16	678	39	28	21
4	27	75	36	323	67	52	----	-166	-88	-111	-51	-29	-26	-17	-7	-5	-4	-1	2	8	14	17	15	56
5	141	52	210	++++	330	510	51	-34	-52	-45	-35	-12	-5	-4	-4	-3	-3	-1	3	15	7	6	13	30
6	35	13	48	59	109	55	53	-5	-16	-64	-39	-53	-113	-47	-113	-209	-184	-92	57	19	14	30	47	53
7	57	70	****	88	103	100	18	-82	-458	-663	-927	-827	-129	-127	-76	-246	-172	-30	26	20	33	44	31	62
8	85	57	28	458	494	158	-84	----	----	----	----	-90	-45	-95	-35	-590	-55	-6	166	32	368	75	36	30
9	352	1627	139	28	52	583	-106	-52	----	-425	-92	-12	-7	-6	-6	-6	-2	0	3	12	18	163	27	11
10	9	34	518	220	1334	1165	-29	60	-80	-19	-10	-8	-10	-11	-12	-9	-5	-1	4	20	567	57	16	31
11	47	53	2485	513	1565	104	----	----	-684	-221	-74	-105	-67	-53	-22	-20	-9	-2	7	17	55	28	24	552
12	30	30	83	116	38	80	-365	-165	-49	-115	-194	-106	-76	-35	-15	-9	-6	-1	5	13	15	87	790	41
13	25	60	156	43	92	34	1	-23	-138	-175	-33	-21	-24	-13	-10	-6	-3	0	4	15	84	226	36	67
14	165	136	499	1253	++++	312	-6	-294	----	-377	-161	-28	-19	-13	-8	-4	-3	0	2	9	22	41	22	27
15	48	116	254	74	1816	1158	-204	----	-46	----	-163	-121	-32	-18	-9	-4	-3	-1	2	7	24	74	12	43
16	149	161	126	1699	1948	58	-22	-168	-331	-457	-29	-19	-11	-10	-11	-7	-3	0	5	36	151	132	76	16
17	31	303	531	80	17	8	0	-33	-150	-884	-660	-160	-67	-25	-26	-26	-8	-4	3	12	14	76	168	110
18	43	7	37	45	81	128	++++	-30	-36	-33	-27	-13	-14	-11	-13	-15	-5	-4	2	0	-1	-1	-1	1
19	11	14	22	11	9	40	-172	-243	-435	-490	-746	-123	-72	-149	-74	-110	-20	-5	0	0	-5	3	32	116
20	26	40	50	45	41	24	2	-529	-231	----	-524	-168	-981	-88	-59	-21	-13	2	7	24	30	29	20	78
21	84	76	258	99	66	28	78	----	-367	-19	-20	-53	-46	-54	-39	-1	7	4	6	51	1435	47	58	68
22	39	90	153	912	++++	284	----	----	-63	-101	-25	-11	-11	-12	-8	-8	-7	-1	3	9	30	30	65	80
23	101	257	158	34	83	++++	-230	-212	-179	-106	-10	-4	-7	-9	-8	-5	-4	-2	2	14	241	204	14	120
24	137	1218	103	48	52	++++	-127	-156	-46	-543	-21	-22	-12	-9	-10	-8	-5	-1	3	18	62	161	41	50
25	38	151	1678	++++	291	47	----	-127	----	-341	-47	-22	-29	-38	-26	-19	-3	4	15	26	26	277	27	2340
26	346	362	251	++++	1534	++++	----	-278	-149	-357	-113	-81	-36	-23	-62	-23	-3	2	7	149	93	59	31	35
27	46	33	66	138	110	42	175	----	-407	-271	-548	-20	-12	-18	-14	-11	-5	-1	5	20	135	27	50	181
28	255	112	48	1742	334	290	7	-221	-273	-302	----	-30	-29	-11	-9	-7	-4	-1	5	20	152	92	15	29
29	40	16	326	2230	26	163	179	-113	-328	-147	-27	-25	-17	-21	-18	-11	-8	-2	2	7	20	58	54	167
30	57	12	45	139	97	169	3	-71	-168	-91	-19	-8	-10	-11	-11	-8	-5	-2	2	9	29	224	27	27
31	50	44	185	147	206	1306	-40	----	-511	-564	-19	-12	-14	-9	-8	-6	-4	-1	3	9	13	28	43	13

PERCENT VALID HOURS FOR JULY, 1994 743*100/ 744= 99.9%

THREE HIGHEST VALUES FOR JULY, 1994 XXXX(DD,HH) = ++++(5, 3) ++++(3, 3) ++++(14, 4). (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — AUG, 1994

RICHARDSON NUMBER 2 TIMES 100 — RINUM2

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	15	172	88	138	117	93	-144	-453	-346	-128	-9	-7	-10	-8	-6	-5	-2	0	3	14	63	187	27	49
2	242	++++	425	184	369	++++	----	-284	-309	-79	-42	-19	-20	-12	-12	-13	-9	0	10	43	31	46	32	99
3	++++	214	91	128	1470	712	9	-493	----	-342	----	-453	-50	-29	-8	-5	-3	0	7	40	86	42	130	110
4	1634	660	194	374	487	++++	-44	-257	-339	-216	-526	-26	-7	-6	-4	-3	-2	1	7	53	185	100	149	48
5	++++	246	134	345	116	60	-222	-333	-329	-108	-15	-6	-6	-8	-5	-2	-1	1	3	11	14	38	11	83
6	22	19	70	99	572	30	443	-52	-31	-29	-12	-15	-12	-10	-13	-18	-5	0	11	22	30	193	18	44
7	51	174	178	556	++++	920	----	-138	-31	-26	-34	-15	-19	-11	-10	-5	-6	-1	1	1	2	3	5	58
8	39	24	47	105	79	22	32	0	-5	-1	-1	-2	-2	-5	-11	-22	-17	-4	-1	3	42	21	19	14
9	11	994	42	44	1320	37	-2	----	----	-34	-14	-11	-13	-26	-38	-5	-2	-9	-84	7	6	44	12	10
10	50	39	4	5	19	37	-330	-226	-396	-236	-63	-125	-24	-51	-64	-20	-12	-2	4	13	2	68	9	9
11	9	15	7	12	100	102	-205	-197	-349	----	-385	-669	-91	-79	-29	-17	-12	-3	5	18	469	113	107	49
12	9	19	25	57	81	83	40	-14	-13	4	-10	-89	-18	-28	-44	-56	-16	-7	0	6	9	26	13	22
13	37	30	12	46	8	4	-3	-37	-468	-225	-195	-244	-108	-96	-8	-7	-20	-25	6	4	36	14	68	18
14	5	16	963	196	46	18	-68	-159	-485	-404	-190	-680	-37	-18	-62	-38	-26	-2	7	14	14	16	45	87
15	101	28	35	89	137	78	70	-30	----	----	-624	-751	-45	-39	-27	-27	-10	-1	10	18	115	75	45	62
16	372	222	170	92	1623	204	19	----	----	-256	-35	-12	-10	-10	-7	-6	-5	0	8	17	61	54	23	26
17	37	10	56	78	110	103	27	-237	-475	-15	-5	-5	-5	-1	-3	-2	-2	-1	0	7	29	33	17	++++
18	35	127	72	32	32	63	22	-15	-42	-25	-18	-12	-10	-10	-6	-4	-4	-1	6	16	20	32	1	14
19	17	16	4	3	30	14	18	-25	-62	-33	-89	-29	-31	-97	-56	-31	-29	-10	9	10	18	15	16	9
20	16	25	43	85	88	219	-34	-390	----	-600	-41	-13	-16	-11	-8	-5	-3	0	3	9	19	27	139	31
21	15	40	39	121	418	1480	52	-6	-329	-11	-4	-5	-4	-4	-7	-4	-2	0	5	34	87	99	22	58
22	30	463	30	13	36	41	199	95	-80	-14	-5	-7	-8	-6	-6	-5	-2	1	10	1652	288	35	24	73
23	29	1487	443	306	96	154	222	----	-238	-230	----	-111	-26	-15	-8	-5	-3	1	8	213	111	31	58	75
24	695	479	2273	181	117	114	-154	-57	-309	-38	-55	-8	-11	-11	-9	-7	-3	3	8	21	60	111	80	58
25	561	269	148	102	113	349	141	----	-47	-4	-5	-6	-6	-7	-7	-5	-2	3	13	244	292	33	56	1875
26	272	186	1758	421	1385	1545	-105	-71	-351	-55	-7	-9	-11	-9	-7	-3	-1	2	5	3	5	3	2	9
27	19	58	38	14	4	4	1	-10	-24	-338	----	-423	-73	-492	-526	-405	-39	52	327	154	32	47	102	88
28	123	68	215	188	1276	100	9	-167	-282	-271	-118	-7	-9	-10	-8	-6	-3	1	10	53	2574	125	99	15
29	33	503	483	1320	++++	998	365	-400	-93	-353	-170	-46	-23	-22	-15	-11	-5	3	14	48	37	116	91	243
30	66	1829	++++	1408	80	140	2798	-102	----	-74	-451	-43	-35	-31	-13	-7	-3	2	20	356	2228	46	39	47
31	244	++++	1423	2450	308	848	3294	----	-339	-319	-246	-13	-7	-5	-4	-4	-1	2	10	56	99	71	83	97

PERCENT VALID HOURS FOR AUG, 1994   744*100/ 744=100.0%

THREE HIGHEST VALUES FOR AUG, 1994 XXXX(DD,HH) = ++++(31, 1)   ++++(2, 1)   ++++(3, 0)   (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — SEPT, 1994

RICHARDSON NUMBER 2 TIMES 100 — RINUM2

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	66	164	222	133	252	752	418	-318	-395	-35	-17	-6	-8	-6	-6	-4	-1	2	7	9	25	16	82	265
2	1063	++++	542	248	105	49	-516	-200	----	-6	-4	-5	-6	-4	-3	-2	-1	1	6	16	37	226	37	35
3	72	40	202	70	544	236	890	-209	-65	-206	-415	-73	-17	-15	-8	-7	-4	2	19	114	48	81	97	19
4	45	219	213	3040	167	90	-251	----	-309	----	-741	-45	-36	-42	-48	-19	-8	3	20	30	66	87	36	43
5	45	69	223	50	184	1480	-55	-691	-638	-143	-282	-61	-18	-26	-14	-10	-4	3	19	36	34	2546	284	144
6	254	1232	379	510	7487	229	----	----	-149	-127	-65	-19	-19	-17	-14	-9	-3	4	21	100	17	45	52	398
7	46	61	194	++++	++++	++++	47	285	----	----	-428	-9	-9	-12	-7	-5	-1	4	8	13	29	58	65	2513
8	133	1511	1488	145	++++	208	----	----	----	-127	-10	-6	-6	-4	-3	-2	-1	2	5	17	33	381	41	22
9	49	496	155	208	73	251	135	-82	-444	-76	-19	-8	-8	-7	-7	-2	2	3	3	3	4	5	6	4
10	4	5	5	6	6	7	3	0	-1	-2	-2	-3	-3	-2	-2	-1	0	1	5	24	38	11	8	6
11	13	9	20	21	131	289	69	1	-2	-3	-5	-4	-4	-4	-4	-3	-1	2	9	12	22	171	14	11
12	6	3	6	10	21	18	6	1	-4	-4	-2	-3	-5	-5	-4	-3	-1	1	2	12	1248	24	10	4
13	4	52	26	43	++++	194	266	-302	-75	-42	-25	-22	-13	-17	-11	-8	-2	1	22	77	25	55	77	246
14	85	113	57	61	298	491	6	-22	----	-775	-795	-355	-113	-161	-61	-269	-42	26	21	41	277	57	47	++++
15	246	104	80	125	354	57	8	-70	----	-741	-153	-203	-414	-326	-215	-39	-11	71	73	125	5016	153	++++	395
16	301	++++	292	++++	++++	1538	1814	87	----	----	-970	-626	-134	-171	-52	-63	57	63	23	70	259	223	66	112
17	128	169	1572	++++	1653	++++	6350	-78	-51	----	----	----	-635	-21	-58	-8	-2	7	22	27	74	63	85	24
18	65	120	1482	53	743	126	1246	-38	----	-268	-695	----	-262	-37	-88	-52	-8	26	28	57	81	99	21	129
19	159	208	134	2706	863	1545	58	-126	1	****	****	****	****	-1	-6	-4	-1	1	2	3	3	4	19	604
20	57	16	24	30	487	413	****	****	****	****	****	****	-260	-141	-319	-6	-1	1	24	27	8	56	38	13
21	22	102	14	41	134	110	15	-106	-300	----	-572	-84	-62	-98	-729	-164	-40	48	18	21	890	329	44	119
22	254	304	116	46	72	347	811	----	-447	----	-61	----	-157	-48	-74	-23	0	24	64	75	105	66	228	7289
23	32	91	41	51	64	25	50	----	----	----	----	----	-94	-64	-78	-52	18	50	34	106	116	71	78	5731
24	++++	105	57	203	++++	256	2203	-35	-288	----	----	-322	-54	-19	-11	-3	-1	10	183	76	19	81	204	++++
25	123	138	32	31	96	40	6184	-542	----	----	----	-89	-57	-54	-18	-12	-2	7	19	55	1187	59	79	227
26	81	45	99	574	880	559	40	-223	-75	-514	-852	----	-445	-424	-95	-30	0	6	17	65	442	34	4876	33
27	52	41	137	114	39	114	56	-398	-668	-140	-179	-98	-22	-27	-13	-3	0	3	31	72	32	24	43	230
28	215	364	658	67	110	119	178	----	-545	----	-127	-14	-6	-4	-2	-1	1	3	4	6	4	8	22	7
29	6	36	3	8	12	14	-1	-5	-18	-10	-3	-3	-1	2	1	2	3	8	5	29	27	71	12	17
30	38	40	48	43	24	86	3398	----	-117	-135	-227	-99	-108	-123	-345	-81	2	321	44	197	79	140	23	72

PERCENT VALID HOURS FOR SEPT, 1994 710*100/ 720= 98.6%

THREE HIGHEST VALUES FOR SEPT, 1994 XXXX(DD,HH) = ++++(13, 4) ++++(2, 1) ++++(15,22) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — OCT, 1994

RICHARDSON NUMBER 2 TIMES 100 — RINUM2

HOUR

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	99	102	25	42	745	1038	4878	-413	-549	-168	-350	----	-616	-128	-131	-104	-17	30	26	32	826	4005	57	++++
2	912	179	1969	1194	1347	44	144	----	-515	----	----	-32	-12	-9	-7	-3	1	7	22	103	18	67	64	139
3	43	16	38	30	742	304	133	4	1	0	-2	-29	-265	----	-57	-18	4689	59	467	++++	33	227	33	2
4	3	4	40	34	27	22	41	-5	-1	-2	-3	-4	-3	-1	-1	-1	0	2	11	5	3	1	6	2
5	3	16	11	3	3	1	0	-1	-4	-3	-6	-8	-7	-9	-11	-13	-1	8	6	16	68	206	91	184
6	62	58	49	63	73	1960	----	-276	-387	----	-410	-801	-153	-303	-135	-52	-3	16	10	14	92	38	60	36
7	20	19	33	104	228	46	74	12	-195	-442	-25	-25	-17	-17	-12	-3	1	6	13	11	10	143	90	39
8	76	6	12	242	83	46	68	5	-10	-20	-23	-97	-555	-472	----	-307	4	15	25	47	53	70	173	96
9	63	128	5189	34	270	65	1303	----	----	-164	-964	----	-465	-262	-59	-60	25	37	40	18	46	255	269	79
10	287	1075	191	157	1485	173	437	-947	----	----	----	-48	-8	-7	-5	-2	2	15	2695	168	87	3872	204	292
11	191	517	105	46	154	411	751	----	-114	-127	-55	-22	-10	-13	-12	-4	6	19	6097	109	++++	82	59	530
12	409	50	37	61	46	104	125	----	-973	-149	-49	-22	-6	-3	-2	-1	2	5	9	11	22	5	3	4
13	3	7	38	17	13	33	81	-27	-294	-297	-678	-459	-308	-94	-106	-87	1419	76	24	30	31	6	1	9
14	7	15	13	19	42	93	26	-138	-656	-403	-213	-40	-13	-10	-7	-2	0	1	2	3	2	1	0	0
15	2	4	3	7	9	6	2	-5	----	-29	-15	-11	-10	-12	-5	-2	-1	9	63	29	100	19	6	11
16	90	85	87	58	20	23	29	-214	-363	-407	-170	-32	-24	-30	-23	-18	-2	6	13	9	287	129	46	25
17	28	176	89	51	1887	-8	----	----	-112	-957	-196	-144	-48	-204	-234	-72	12	16	17	158	57	1087	562	152
18	148	314	58	60	53	60	-3	----	-324	-54	-165	-107	-34	-28	-17	-7	4	25	336	334	118	58	42	129
19	101	109	46	2102	92	128	35	-123	----	-24	-353	----	-857	-126	-58	-136	252	28	65	27	58	43	56	72
20	87	309	++++	6183	2981	1763	116	----	-689	-617	-555	-41	-171	-33	-40	-14	13	16	24	103	202	185	++++	1189
21	271	++++	161	101	3134	275	64	----	719	-27	-255	----	----	-147	-16	-2	8	23	27	41	684	105	414	36
22	196	190	909	229	46	46	197	----	-588	----	----	-752	-150	-105	-7	1	12	28	51	56	215	124	++++	509
23	110	991	193	312	44	339	3113	-171	----	----	----	2299	-439	-200	-27	-1	10	30	62	40	67	154	191	++++
24	70	57	54	35	163	19	56	40	-224	----	-378	-212	-181	-209	-120	-22	37	17	91	4787	97	58	90	2562
25	651	350	455	1471	++++	2972	170	-59	-419	----	-236	----	----	-194	-86	21	19	15	245	3801	53	65	361	++++
26	364	168	2128	1999	3262	134	108	-13	-15	-55	-256	-119	-745	----	-283	-5	8	17	27	92	86	5563	42	200
27	61	220	110	24	210	243	25	-113	-368	----	-7	-113	-280	-5	-7	0	14	47	143	200	2524	57	770	193
28	68	72	37	298	125	41	66	-198	-6	174	-196	-260	-175	-572	-67	1	10	15	289	94	117	107	459	290
29	34	70	456	364	205	85	100	159	-420	-359	-599	----	-829	-86	-79	-44	33	22	114	23	47	78	45	39
30	42	58	36	40	34	45	27	31	-1	-12	-28	-11	-15	-10	-10	1	12	11	30	85	464	44	470	169
31	149	126	93	98	141	57	6	----	----	----	-26	-294	----	----	-447	65	663	37	27	46	691	760	190	173

PERCENT VALID HOURS FOR OCT, 1994 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR OCT, 1994 XXXX(DD,HH) = ++++(11,20) ++++(21, 1) ++++(1,23) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — NOV, 1994

RICHARDSON NUMBER 2 TIMES 100 — RINUM2

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	403	718	396	445	40	126	195	-537	-34	-127	-206	-104	-7	-2	-1	2	5	9	4	3	4	4	4	5
2	5	3	9	6	5	3	2	2	3	1	-3	-9	-16	-11	-3	-2	-1	-1	-1	3	0	-2	-3	-4
3	-3	-4	-7	-1	3	3	7	2	-15	-6	-7	-9	-10	-4	-4	-2	1	28	19	24	34	18	36	60
4	94	7	10	16	164	700	33	12	-33	-78	----	-439	-919	-103	-42	-4	10	32	232	352	87	28	109	31
5	14	211	184	3	-56	-33	10	-190	-573	-81	-252	-411	-496	----	-47	-25	17	14	18	13	31	16	34	3867
6	96	++++	204	1177	119	1026	1133	-38	-13	-54	-21	----	----	-144	-451	5	51	43	18	28	223	312	58	410
7	64	738	61	50	36	70	8	-32	-264	-125	----	-23	-47	-14	-4	4	****	107	169	362	307	1218	75	41
8	156	-13	-64	3	28	95	110	-695	-778	-433	-773	-129	-138	-69	-10	-2	6	19	19	73	366	329	168	211
9	1670	106	168	4437	841	188	660	-66	----	-33	-97	-35	-20	-25	-41	-5	6	45	10	25	26	27	53	150
10	107	315	91	461	28	95	331	49	-7	-79	-18	0	-1	0	0	-1	7	2	4	4	7	19	54	180
11	160	50	28	-169	235	113	147	-12	-889	----	----	-98	-159	-381	-51	-12	3	5	6	23	16	46	29	11
12	35	16	++++	166	++++	3023	4709	29	----	2	-7	-8	-9	-8	-5	-2	6	22	28	263	546	2	9	10
13	17	16	24	62	55	250	1649	1397	-15	-34	-4	-20	-27	-19	-14	-2	4	7	15	56	368	38	103	25
14	100	50	37	44	25	21	22	36	-15	----	-5	-123	-94	-91	-48	0	10	15	15	124	74	126	152	419
15	416	139	9707	2572	51	209	505	----	----	-315	-412	----	-95	-179	-78	4	17	18	19	11	12	18	121	35
16	39	53	1752	29	44	846	17	5	1	-23	-212	-39	-12	-6	-5	-1	1	0	7	2	3	5	36	30
17	74	130	475	183	27	14	635	-325	-212	-13	-17	-7	-3	-3	-3	-1	11	25	3	2	3	0	0	2
18	2	-4	-1	0	0	2	17	3	7	5	6	4	4	4	5	4	13	48	7	57	18	5	3	10
19	19	40	14	21	114	84	175	43	132	132	28	26	55	363	52	143	66	106	40	13	29	80	60	324
20	71	114	901	26	61	82	34	27	2	468	13	81	768	245	23	29	52	37	87	749	202	75	66	80
21	21	5	97	8	32	12	10	-818	-15	242	-33	-15	----	----	----	13	8357	90	74	21	31	26	39	399
22	505	215	148	69	32	19	18	11	7	2	0	-1	-1	-1	0	2	11	9	24	277	69	11	11	21
23	91	594	425	119	161	30	434	470	-57	605	----	----	115	----	-222	-25	1012	73	23	259	29	185	70	62
24	41	33	21	32	31	39	40	-29	-132	-65	-778	----	----	-73	-226	104	94	112	32	135	526	194	359	85
25	1158	51	14	34	29	163	90	4	-1	-770	3	0	0	0	0	0	1	1	1	1	1	2	1	2
26	2	3	4	1	1	2	6	2	0	-1	-4	1	-1	0	1	2	6	5	11	20	38	22	41	18
27	85	185	97	127	25	49	43	121	21	-98	-678	-228	-20	-12	-3	2	21	31	107	401	298	369	295	31
28	34	19	31	133	52	16	27	3	-21	----	-40	-54	-62	-7	-6	17	14	25	88	83	46	701	123	91
29	138	170	117	68	58	52	204	221	21	-3	-57	-464	28	----	103	179	513	46	65	44	174	212	737	71
30	71	193	102	239	83	201	153	56	-816	-50	----	111	44	12	-612	192	76	64	31	76	30	40	88	509

PERCENT VALID HOURS FOR NOV, 1994 719*100/ 720= 99.9%

THREE HIGHEST VALUES FOR NOV, 1994 XXXX(DD,HH) = ++++(12, 2) ++++(12, 4) ++++(6, 1) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — DEC, 1994

RICHARDSON NUMBER 2 TIMES 100 — RINUM2

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	206	181	335	201	2017	249	109	65	++++	143	----	-338	8106	-376	65	37	435	40	149	62	127	68	68	93
2	38	64	23	103	46	78	28	-8	9	-748	----	-5	-7	25	17	20	76	40	21	50	136	398	465	105
3	1101	51	346	49	18	17	627	472	-40	----	-343	----	-70	-11	31	399	48	30	24	26	74	68	43	102
4	202	141	315	971	223	227	-6	-12	-267	-51	-54	-7	-45	19	55	289	101	141	133	26	11	70	50	31
5	66	29	35	54	42	47	33	22	-142	-868	-670	-373	-119	-17	-19	1	34	254	18	9	14	28	59	16
6	26	71	30	116	38	10	21	-27	-295	-209	-258	----	-9	-25	-12	3	7	26	126	38	55	30	67	56
7	340	61	23	14	67	54	59	-12	-79	-18	-73	-93	-144	-53	-8	6	13	30	1131	1985	57	166	152	151
8	217	189	51	129	36	16	24	12	2	-1	-2	-3	-4	-5	-2	5	16	****	****	****	****	****	****	****
9	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
11	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
12	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
15	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
18	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	189	101	171	115	244	92	58	90	362
20	140	298	144	104	134	51	68	70	519	546	1387	132	243	486	1251	105	73	20	413	78	42	262	318	1055
21	1268	353	93	61	126	40	268	106	187	111	258	87	561	-975	++++	639	407	97	110	210	43	176	1168	118
22	216	86	58	45	773	795	169	3648	169	34	13	24	26	24	24	69	112	66	114	47	35	187	355	295
23	79	14	5	8	22	131	57	103	61	177	62	-39	509	106	++++	28	24	34	83	7	6	11	114	48
24	24	100	20	24	29	60	109	439	324	701	360	44	91	21	133	36	70	44	28	21	2	23	21	12
25	23	20	66	5	13	8	11	56	21	31	9	7	35	3	6	13	8	9	7	3	6	45	5	16
26	73	9	16	26	11	52	154	6	6	6	4	5	4	9	22	16	13	15	141	74	7	96	57	25
27	18	107	229	37	35	3745	53	39	109	587	388	85	395	394	976	48	95	73	1591	38	50	19	1979	50
28	100	106	436	51	17	35	42	19	23	53	134	117	1	3	73	13	24	15	90	2	3	50	20	12
29	12	10	5	3	31	49	22	17	116	65	64	155	2	2	5	12	85	59	42	22	33	17	26	10
30	10	13	9	4	6	15	31	197	28	10	2	3	11	-135	19	115	84	19	18	97	32	78	163	301
31	155	338	10	14	35	6981	182	407	100	157	64	70	45	151	139	54	75	151	43	27	554	50	70	403

PERCENT VALID HOURS FOR DEC, 1994   482*100/ 744= 64.8%

THREE HIGHEST VALUES FOR DEC, 1994 XXXX(DD,HH) = ++++(21,14)   ++++(23,14)   ++++(1, 8) . (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — JAN, 1994

RICHARDSON NUMBER 3 TIMES 100 — RINUM3

HOUR

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	143	2465	571	++++	3656	254	497	1761	49	745	8332	-394	996	58	141	58	538	688	480	2221	665	110	6147	226
2	708	3090	2269	++++	2283	194	424	383	790	5928	395	++++	266	----	41	146	245	7655	1223	651	590	499	6267	12
3	609	609	++++	++++	++++	++++	1616	4174	++++	-424	-388	-402	----	4058	635	394	2362	362	239	4674	961	3581	4209	++++
4	7608	1344	334	8770	1041	113	96	180	129	467	5132	-928	6539	1884	3769	356	++++	6956	++++	614	++++	4248	230	139
5	223	162	4882	3458	2330	++++	1149	1692	589	336	++++	----	-200	-227	20	10	7	5	7	30	29	60	216	1219
6	421	6765	1329	8617	8025	++++	2812	4386	1212	263	-166	-5	-5	-3	1	7	32	64	48	240	548	63	185	459
7	405	2516	++++	3498	1570	4582	3021	1352	6532	----	----	-34	----	-17	139	110	404	568	678	197	++++	1050	674	++++
8	7254	1608	++++	2665	3131	433	2129	1908	-436	----	-851	----	----	-490	97	27	39	147	1980	431	2640	731	2082	5246
9	809	++++	2430	4241	4306	741	827	5576	1128	++++	-682	----	40	142	-51	1336	++++	307	1511	933	1523	696	62	45
10	105	277	63	19	989	61	1041	59	16	7	0	-11	-13	-15	16	40	37	33	66	++++	4423	++++	163	282
11	1369	536	1292	344	230	140	216	593	1984	-98	----	----	----	-750	6912	56	37	21	24	38	35	63	50	28
12	20	450	1217	243	111	85	82	192	76	28	-17	-24	-69	-21	10	20	29	36	52	51	49	630	235	261
13	3853	506	693	9109	3213	4057	++++	++++	2336	++++	5	-887	++++	-83	18	20	22	19	14	53	73	66	681	++++
14	126	++++	704	3070	583	2057	182	++++	154	338	----	----	-713	----	-56	339	150	412	1629	4377	328	++++	++++	145
15	600	77	6359	422	1313	17	7	2630	209	526	++++	-796	136	-326	70	70	44	65	348	178	345	755	55	418
16	397	548	3791	++++	6363	199	534	4473	738	----	----	++++	2	2	6	15	21	28	330	409	119	++++	251	1475
17	++++	739	++++	++++	++++	1032	491	1753	307	443	----	334	----	808	3163	++++	2335	5119	8565	293	1745	++++	671	725
18	438	2442	++++	468	78	2929	861	753	4874	2752	101	153	-429	158	1674	++++	221	342	467	1843	++++	4597	++++	1466
19	++++	2462	++++	2497	1599	2048	4419	++++	++++	1203	-96	-145	-676	115	91	105	++++	165	4753	2776	++++	++++	4003	710
20	98	++++	2169	4727	1412	615	447	1244	++++	++++	-30	----	-25	----	4056	89	313	259	++++	637	603	++++	5655	++++
21	++++	685	++++	1083	1429	++++	35	669	6534	96	1089	----	13	----	329	471	472	1566	++++	5989	118	1063	581	1431
22	304	8704	2589	++++	2087	++++	973	227	1180	460	3367	----	-12	----	419	1337	712	++++	586	163	417	906	++++	++++
23	110	501	1521	24	13	45	28	621	101	-17	-89	2	-61	21	22	15	27	25	29	108	109	594	186	1207
24	2458	3489	++++	++++	++++	507	1166	1411	++++	3	----	245	-307	-55	15	20	23	27	97	213	107	188	50	22
25	26	16	19	11	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
27	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
28	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
29	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
31	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****

PERCENT VALID HOURS FOR JAN, 1994 580*100/ 744= 78.0%

THREE HIGHEST VALUES FOR JAN, 1994 XXXX(DD,HH) = ++++(16,21) ++++(14,21) ++++(6, 5) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — FEB, 1994

RICHARDSON NUMBER 3 TIMES 100 — RINUM3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
2	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
3	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
4	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
5	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
6	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
7	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
8	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
9	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
11	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
12	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	310	339	340	2627	++++	1169
13	3499	++++	++++	477	++++	++++	++++	4291	429	326	660	++++	----	----	----	294	37	44	524	++++	149	++++	4501	1441
14	1615	1228	++++	++++	++++	2089	2117	++++	461	-292	-78	381	-372	1599	759	115	264	1525	257	144	++++	1350	2309	478
15	86	14	25	22	++++	252	780	350	112	47	79	----	879	78	-18	10	12	23	1920	467	99	264	1420	55
16	113	76	13	23	12	15	10	14	9	45	34	-170	----	-35	-1	8	12	55	106	430	108	238	293	376
17	231	240	3390	62	306	++++	7248	7907	361	----	----	----	----	----	-399	-26	14	31	25	59	82	442	482	578
18	1306	125	371	167	159	715	20	22	-3	-142	-30	-9	-28	-33	-22	-5	22	18	16	109	515	448	51	666
19	81	167	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	70	197	++++	399	686	941
21	++++	++++	++++	++++	++++	++++	1178	++++	2343	1020	-891	----	-434	-68	-36	-7	17	22	53	270	509	++++	2155	792
22	1642	461	5590	++++	++++	98	21	30	26	8	-28	-29	-46	-35	-30	-8	12	24	23	31	38	++++	++++	537
23	81	128	1117	1032	63	76	++++	91	20	-216	----	----	-267	----	----	----	-20	645	206	201	++++	2372	863	++++
24	2660	3383	3485	1201	375	1010	601	50	343	----	----	----	----	-465	-239	-10	21	36	122	207	508	6599	7174	++++
25	1079	4641	1345	++++	++++	2897	2808	243	428	1675	----	----	----	----	----	-8	15	46	556	2821	673	341	++++	645
26	++++	2711	++++	++++	739	4801	592	710	860	45	----	----	-156	-78	-4	3	9	14	24	95	3667	467	602	6777
27	760	3714	5777	823	1138	634	++++	1268	5226	----	-828	-66	-26	-1	68	24	20	18	34	25	413	29	14	20
28	212	27	200	74	27	116	165	647	12	-7	-25	-32	-70	-49	-30	-7	14	18	21	14	15	55	131	82

PERCENT VALID HOURS FOR FEB, 1994   350*100/ 672= 52.1%

THREE HIGHEST VALUES FOR FEB, 1994 XXXX(DD,HH) = ++++(17, 5)   ++++(22,22)   ++++(21, 2)   (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — MAR, 1994

RICHARDSON NUMBER 3 TIMES 100 — RINUM3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	49	51	245	143	++++	577	96	3412	1008	-884	-616	-28	-45	-58	-104	-32	0	12	166	1023	1710	4910	++++	3795
2	688	2670	++++	755	2820	2963	9944	5264	1361	----	----	-690	----	----	----	-388	273	190	2477	1410	466	724	1208	1515
3	1963	++++	++++	2923	++++	265	837	4611	2	-389	----	-980	-983	----	-91	-49	23	30	154	370	8544	++++	++++	++++
4	++++	2126	3422	++++	1067	++++	797	49	177	----	----	----	-385	----	-148	-67	19	21	38	278	259	376	++++	2316
5	803	++++	++++	8751	7619	15	286	266	7	-223	-277	-141	----	-66	-3	1	9	24	91	2549	91	++++	23	31
6	158	527	55	71	8066	1436	217	1121	++++	-151	-31	-66	-29	-6	-3	-3	17	184	219	++++	****	7	14	37
7	5960	331	981	140	62	3415	3771	++++	816	-151	-934	----	-97	-70	-47	-18	73	42	888	8271	++++	285	++++	2593
8	126	55	36	++++	++++	1353	800	222	++++	-238	----	----	-214	-403	-200	-96	26	110	204	247	2050	++++	809	292
9	++++	477	1602	1696	++++	899	817	++++	191	----	-489	----	----	----	-970	----	0	53	101	219	127	3694	++++	++++
10	3879	++++	1565	831	551	++++	315	2992	----	-527	-535	----	-44	-18	-14	-6	7	10	16	27	52	17	93	111
11	963	1492	190	34	37	14	55	26	7	-21	-16	-12	-11	-11	-7	-2	0	2	6	6	10	26	24	8
12	12	8	13	21	21	18	60	29	-4	-19	-20	-15	-17	-21	-10	-7	1	8	31	75	59	31	25	62
13	30	3455	2177	54	22	207	27	16	-4	-40	-55	----	----	----	-86	-50	11	67	117	1889	375	1186	++++	462
14	289	9710	1459	1420	1610	8576	8319	3	-205	----	----	----	-321	----	-698	-732	-20	45	94	144	93	1137	380	9265
15	4359	7932	++++	++++	++++	++++	958	++++	17	----	-90	----	----	-50	-47	-6	4	13	50	2421	401	324	1377	431
16	467	++++	4917	175	++++	++++	442	25	3	-5	-10	-17	-25	-24	-19	-15	0	15	20	42	22	43	66	212
17	141	++++	977	272	90	1171	470	592	-68	-333	----	----	----	----	-149	-45	-5	25	78	1294	565	189	157	642
18	++++	793	539	28	192	29	14	5	1	-10	-17	-17	-22	-14	-8	-7	-1	6	10	18	11	7	13	23
19	24	23	11	11	11	28	9	4	1	-5	-9	-11	-21	-13	-24	-21	-2	2	4	5	9	1	4	133
20	624	421	656	++++	++++	1691	3063	159	-56	----	----	----	----	----	-278	----	-178	18	17	37	871	++++	++++	3251
21	3680	3588	330	++++	4172	++++	++++	340	----	----	----	-90	-58	-40	-27	-17	-4	5	12	21	4843	1666	222	++++
22	102	155	86	245	149	8475	53	8	-1	-4	-4	-5	-5	-5	-7	-6	-2	13	21	69	43	51	40	1484
23	1693	++++	1245	466	++++	2782	337	1085	-604	----	-994	----	----	----	----	----	-37	31	32	436	45	++++	63	1263
24	128	79	1495	9486	4825	536	136	76	-48	----	-55	-71	----	-55	-18	-19	-2	30	128	128	7200	201	1174	211
25	5659	837	1381	197	46	70	34	5	-33	-111	-170	-99	-359	-54	-26	-18	-24	7	10	14	65	25	130	++++
26	368	175	++++	++++	247	9021	110	149	-122	----	-64	-37	-27	-45	-29	-9	4	26	40	71	212	++++	++++	227
27	192	7631	2837	++++	++++	242	1449	754	-47	-138	-77	-64	-28	-17	-12	-7	3	14	71	4437	1441	339	147	2551
28	++++	2183	1103	++++	3994	3972	++++	1451	----	-354	-287	----	-115	-49	-32	-6	11	23	59	++++	535	104	179	335
29	++++	4667	3596	++++	242	766	418	88	----	-522	----	-950	-252	----	----	-564	10	36	52	152	++++	505	372	++++
30	9751	++++	6188	++++	2345	476	452	++++	249	-795	----	----	-497	-160	-471	-156	-76	8	15	556	387	34	27	312
31	79	96	1222	1083	1287	1282	5200	99	-77	----	----	-36	-20	-22	-21	-13	-1	13	27	45	611	43	99	138

PERCENT VALID HOURS FOR MAR, 1994 743*100/ 744= 99.9%

THREE HIGHEST VALUES FOR MAR, 1994 XXXX(DD,HH) = ++++(3,22) ++++(4,22) ++++(29, 3) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — APR, 1994

RICHARDSON NUMBER 3 TIMES 100 — RINUM3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	5306	476	586	3839	++++	412	++++	209	64	-21	-36	-55	-116	-452	-383	-71	-39	22	79	73	92	199	++++	304
2	1368	341	3225	243	345	127	396	746	-451	----	----	----	----	----	-996	-358	-26	88	24	++++	3634	2145	48	131
3	74	101	3260	1875	181	70	1318	64	-2	-7	-11	-17	-21	-26	-10	-7	-13	17	14	19	24	7	12	67
4	++++	79	191	71	++++	1030	1393	1136	-129	-368	-249	-8	-1	-3	-11	-9	-3	5	15	20	25	85	45	49
5	8431	246	173	2188	++++	367	++++	----	----	****	****	****	****	****	-364	-216	-54	10	21	36	349	60	++++	4188
6	3791	++++	++++	2722	8381	539	++++	-554	----	----	----	----	----	----	----	-98	-34	-19	4	107	42	14	15	9	25
7	249	1726	731	1021	++++	++++	8375	++++	-664	----	----	----	----	----	-375	-125	-59	-40	8	25	75	568	93	84	512
8	130	110	1733	211	70	35	15	-41	-114	-157	-328	-510	-86	-36	-19	-10	-13	-9	4	6	6	2	1	0
9	23	11	12	16	46	16	4	2	202	-424	-903	-541	-42	-9	-39	-36	-5	3	21	29	16	714	426	573
10	222	919	935	++++	827	303	696	1418	-163	-37	-52	-31	-40	-26	-25	-16	-6	1	6	8	8	15	17	15
11	24	24	19	30	42	++++	++++	----	----	----	----	----	----	----	-925	-415	----	----	-97	18	179	598	1207	++++	3015
12	800	++++	3992	2706	7440	4130	795	----	----	----	-643	----	----	-456	-253	-175	-37	7	48	143	407	4817	900	5709
13	871	3003	603	906	++++	7484	3188	-907	----	----	-836	-250	-125	-128	-100	-57	-16	7	24	50	140	2441	194	++++
14	6063	++++	711	339	1989	924	216	++++	-343	----	----	-984	-551	-286	-146	-91	-140	69	38	36	3769	24	39	55
15	37	16	17	16	27	18	++++	----	-62	-117	-115	-716	----	----	----	-851	-352	-68	513	710	337	405	253	++++
16	++++	++++	++++	9267	++++	++++	845	----	----	-749	----	-400	-114	-282	-66	-37	-5	27	65	216	238	151	1442	++++
17	4407	4418	2166	3765	276	1940	8535	----	----	----	-719	-470	-58	-51	-14	-16	0	6	12	42	1422	245	2861	++++
18	97	759	728	1866	8439	++++	1543	----	----	----	----	-673	-162	----	-184	-352	-68	7	24	75	882	226	++++	363
19	++++	595	++++	610	158	940	1226	----	----	----	-372	----	-453	-202	-83	-118	-61	8	28	59	1745	263	1844	5179
20	5861	1071	6020	++++	615	++++	483	----	----	----	----	----	-102	-50	-41	-31	-14	6	19	42	251	61	1487	259
21	5334	8458	1890	43	416	3926	2076	-469	----	----	-90	-17	-16	-20	-22	-11	-8	0	8	12	17	39	100	45
22	30	13	23	512	++++	142	106	----	----	-243	-218	-112	-48	-20	-18	-17	-16	-1	19	15	112	58	646	11
23	10	13	9	13	9	33	2	-8	-8	-10	-10	-10	-9	-9	-9	-5	-3	-1	0	0	1	1	1	1
24	1	3	2	7	34	13	-3	-14	-22	-33	-47	-71	-123	-108	-96	-56	-31	-17	-10	-8	113	102	293	394
25	98	94	27	13	10	34	-21	-58	-15	-18	-26	-28	-12	-9	-15	-20	1	5	7	18	242	67	57	1309
26	445	542	++++	1985	5378	++++	-664	----	-684	----	----	-184	-39	-4	-11	-37	-26	-18	9	16	157	199	16	8
27	66	212	++++	114	70	12	-70	-184	-152	-66	-92	-28	-44	-53	-81	-58	-23	-99	-24	11	39	4	48	35
28	2082	15	29	16	38	2533	-47	----	----	----	-21	-224	-308	-36	-36	-88	-235	-5	47	111	28	43	131	6587
29	++++	++++	2091	3015	++++	++++	----	----	----	----	-404	-140	-132	-770	-523	-352	-599	-174	105	78	514	1432	1205	96
30	52	65	554	192	++++	185	85	----	----	----	----	-368	-61	-32	-18	-8	-11	3	22	26	111	181	235	6697

PERCENT VALID HOURS FOR APR, 1994 715*100/ 720= 99.3%

THREE HIGHEST VALUES FOR APR, 1994 XXXX(DD,HH) = ++++(14, 1) ++++(29, 5) ++++(7, 5) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — MAY, 1994

RICHARDSON NUMBER 3 TIMES 100 — RINUM3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	8532	725	1405	++++	1253	506	321	-705	-366	----	----	----	-891	-484	----	-598	-250	-145	183	112	1840	81	1171	5538
2	1835	1336	++++	392	++++	++++	160	----	----	----	----	-603	-214	-173	-125	-59	-24	-3	17	41	578	170	229	271
3	293	1372	2799	1981	++++	1972	508	----	----	----	----	----	-550	-132	-124	-54	-45	-12	29	76	3379	417	443	384
4	4427	6350	1697	8579	2148	4258	5622	----	----	-433	----	-228	-129	-44	-24	-18	-9	-1	6	19	27	36	31	23
5	139	199	70	436	783	4805	661	-89	-761	-77	-37	-45	-34	-22	-22	-19	-8	0	23	33	29	16	8	79
6	31	23	29	78	419	602	1	-27	-22	-29	-30	-12	-15	-17	-13	-13	-9	-4	0	-1	-5	-5	6	16
7	360	46	181	5170	83	-640	----	----	-271	----	-456	-248	-116	-78	-124	-109	-72	-21	-25	-14	-3	-2	1	2
8	10	12	1238	324	142	314	-15	-69	-99	-945	-90	-96	-70	-36	-27	-325	-222	----	6	51	37	275	++++	1865
9	8107	8015	167	4887	++++	106	102	103	5846	-93	-973	-187	-161	-239	-249	-24	-7	-2	0	3404	++++	68	82	++++
10	846	++++	182	975	863	++++	-106	-348	----	----	----	-118	-297	-121	-34	-26	-32	-8	18	33	58	73	50	80
11	86	47	99	608	++++	2417	----	----	----	----	----	----	-463	----	-541	0	-21	-4	2	7	75	31	22	29
12	120	108	++++	++++	214	164	30	-290	-371	----	-196	-204	-154	-137	-91	-34	-19	-5	5	0	5	39	84	33
13	22	2708	152	38	2559	589	-123	----	----	----	----	----	----	----	-291	-60	-26	-115	30	78	313	39	289	4330	182
14	3169	1567	7904	++++	6148	++++	344	----	----	----	-487	-92	-56	-56	-26	-25	-12	-2	8	15	16	8	4	6
15	5	11	17	25	306	852	100	-9	-8	-15	-20	-18	-14	-13	-7	-6	-3	0	4	9	12	8	9	9
16	9	54	45	12	8	5	-4	-6	-12	-10	-17	-18	-20	-14	-11	-8	-4	-2	0	-3	-7	18	43	181
17	2444	2995	++++	187	++++	457	----	----	----	----	-43	-29	-24	-31	-42	-21	-13	-9	1	9	3	3	5	9
18	33	109	38	14	12	99	-79	----	-81	-49	-46	-34	-28	-31	-29	-26	-20	-6	1	9	16	63	78	209
19	718	544	351	590	8347	287	-135	-45	-53	-411	----	----	-546	-192	-203	-187	-90	-55	-6	3	716	213	123	3783
20	2729	119	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
21	****	792	2191	2373	429	++++	----	-637	----	-118	-52	-19	-389	-240	-114	-79	-27	-6	13	66	1057	123	193	++++
22	1342	2252	1182	413	8041	3589	-328	-195	-958	-438	-404	-180	-116	-72	-120	-78	-56	-10	22	29	139	286	2235	1931
23	++++	854	++++	1097	899	++++	13	----	----	----	----	----	-414	-203	-306	-284	-33	-7	-3	963	77	++++	1482	2335
24	342	489	1034	++++	4166	++++	524	----	----	----	----	-70	-72	-36	-77	-94	-57	-2	1	2	53	77	72	33
25	21	129	391	470	128	937	-38	----	----	-347	-319	-222	-63	-46	-67	-59	-17	-9	-6	1	28	116	626	92
26	385	185	113	111	1521	4854	64	----	-524	-137	-831	-423	-382	-202	-44	-29	-40	-14	-2	2	4	275	28	10
27	9161	3707	697	8909	70	60	-15	----	-173	-28	-22	-27	-19	-22	-33	-14	-12	-5	5	15	21	33	54	20
28	98	142	152	++++	++++	819	1105	-834	----	-917	-163	-167	-130	-87	-60	-57	-32	-9	32	56	541	53	504	++++
29	1142	++++	++++	1146	++++	++++	72	-735	----	----	----	-505	-141	-92	-50	-41	-17	2	15	41	195	106	72	3764
30	4664	6087	++++	4447	++++	2310	----	----	----	----	----	----	-43	-16	-24	-84	-10	1	3	1	13	323	20	14
31	4	23	13	4793	245	49	----	----	-216	-55	-80	-134	-634	-324	----	-408	-176	-62	30	34	37	116	71	2648

PERCENT VALID HOURS FOR MAY, 1994 721*100/ 744= 96.9%

THREE HIGHEST VALUES FOR MAY, 1994 XXXX(DD,HH) = ++++(17, 2) ++++(23, 0) ++++(29, 2) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — JUNE, 1994

RICHARDSON NUMBER 3 TIMES 100 — RINUM3

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	691	++++	++++	346	4904	347	74	-599	----	-700	----	----	----	-488	----	----	-440	----	220	57	98	128	1547	503
2	2290	3426	767	3583	957	3571	176	----	38	3499	----	----	****	-438	-144	-43	-15	-3	9	20	41	7204	++++	201
3	191	707	1975	1339	191	408	26	-320	----	-67	-26	-43	-28	-18	-14	-14	-15	0	8	14	28	++++	2749	6940
4	748	474	3992	656	4431	++++	40	----	-136	-147	-192	-190	-219	-87	-55	-59	-24	-1	13	35	136	85	341	85
5	67	857	435	9807	++++	++++	----	-406	----	----	-391	-46	-21	-21	-18	-15	-11	-3	6	20	8	10	11	15
6	28	14	25	89	47	43	-7	-19	-28	-13	-13	-22	-25	-20	-17	-8	-5	-1	2	6	11	9	37	24
7	34	231	1112	7098	406	211	++++	-759	----	659	----	-774	-457	-539	-213	-181	-40	-11	14	23	96	1700	5671	1916
8	1167	687	1130	4909	453	11	2	-22	-292	-857	----	-724	----	-751	----	-448	-746	-39	20	45	378	6103	4110	++++
9	3597	++++	++++	3139	++++	++++	334	----	----	----	----	----	----	----	----	-654	-332	-142	-27	24	52	296	++++	2766	4367
10	1635	1737	5814	++++	2616	1764	368	-798	----	----	----	----	----	-524	-283	-444	-95	-65	-9	21	95	240	740	++++	650
11	++++	3949	1038	598	5226	249	6007	----	----	-915	-547	-109	-94	-142	-60	-37	-17	-3	8	20	210	93	553	2659
12	324	1501	++++	2293	++++	992	146	----	----	----	-97	-122	-74	-40	-26	-21	-12	-3	8	29	41	1444	++++	197
13	59	1944	++++	++++	220	4633	528	-912	----	-108	-27	-27	-31	-22	-14	-9	-4	-3	6	13	60	74	107	27
14	439	171	258	484	1217	56	-11	-26	-29	-22	-16	-18	-23	-24	-17	-13	-11	-3	2	4	5	7	8	11
15	25	31	33	204	128	22	-76	-12	-10	-10	-14	-20	-20	-22	-19	-11	-7	-2	2	9	9	15	13	21
16	38	53	44	128	139	6997	++++	----	-168	-129	-87	-44	-33	-27	-20	-29	-19	-4	9	22	52	40	225	539
17	67	++++	++++	502	4575	3373	548	----	----	-322	-32	-30	-21	-22	-23	-17	-13	-2	6	13	36	34	573	493
18	1150	75	183	3097	7020	++++	45	----	----	----	-84	-42	-24	-20	-22	-22	-13	-3	9	34	571	240	208	2051
19	5939	8845	3555	++++	++++	576	-807	----	----	-359	-732	-163	-223	-63	-48	-33	-19	-5	14	87	++++	224	++++	++++
20	8884	1176	482	348	3302	1985	473	----	----	----	-163	-48	-41	-37	-26	-24	-24	-14	4	16	299	8549	161	15
21	5	90	737	31	20	14	25	108	-86	-52	-237	-129	-81	-69	-61	-65	-34	-9	11	36	130	188	7137	++++
22	++++	1602	1216	4597	3430	2710	----	----	----	-377	-52	-33	-35	-28	-27	-21	-12	-3	8	31	61	54	396	78
23	159	560	2503	++++	++++	++++	1868	----	----	-229	-47	-35	-38	-28	-26	-21	-14	0	15	45	2110	204	112	92
24	724	1750	++++	7690	++++	9358	1137	----	-660	----	-454	-68	-60	-42	-25	-23	-12	3	14	76	1138	217	138	6248
25	++++	9384	9563	9482	409	299	1508	----	----	-33	-31	-31	-34	-33	-21	-14	-8	-1	5	17	64	166	529	30
26	48	524	35	19	13	12	4	-5	-14	-26	-65	-53	-28	-28	-21	-14	-11	-1	2	5	8	14	32	16
27	21	2635	233	120	++++	3729	791	----	----	-76	-100	-87	-73	-56	-48	-40	-14	-6	7	13	13	21	40	7246
28	83	288	++++	227	++++	1748	345	----	----	----	----	-223	-56	-42	-37	-26	-11	-11	15	40	++++	++++	87	178
29	++++	370	307	440	++++	3938	2678	----	----	----	----	-110	-77	-52	-73	-24	-16	-5	11	26	25	20	19	61
30	856	217	++++	9692	1385	6260	1038	-947	-171	----	-200	-50	-62	-39	-43	-26	-13	2	11	15	15	18	16	15

PERCENT VALID HOURS FOR JUNE, 1994 719*100/ 720= 99.9%

THREE HIGHEST VALUES FOR JUNE, 1994 XXXX(DD,HH) = ++++(30, 2) ++++(28, 2) ++++(19,20) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — JULY, 1994

RICHARDSON NUMBER 3 TIMES 100 — RINUM3

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	20	189	45	157	4744	191	126	4	-22	-20	-16	-12	-19	-11	-15	-10	-4	0	5	12	11	20	20	92
2	1650	69	52	533	259	7880	3954	-28	-24	-58	-63	-56	-56	-46	-38	-80	-25	-2	4	8	20	57	200	676
3	260	845	++++	307	220	175	2586	----	-89	-167	-334	-363	-103	-73	-41	-43	-24	-9	12	21	70	1589	83	245
4	301	1571	76	++++	++++	1203	++++	----	-218	-267	-192	-145	-113	-66	-38	-22	-15	-7	5	16	29	20	26	121
5	254	1720	63	426	260	7012	1142	----	-119	-173	-189	-57	-22	-18	-18	-14	-14	-5	8	21	16	14	30	189
6	183	38	202	1970	++++	++++	80	-18	-36	-152	-184	-306	----	-221	-617	-563	----	-785	81	42	35	199	463	252
7	4047	1973	****	1305	6025	5461	280	-912	----	----	----	----	-701	----	-728	-573	----	-219	76	48	187	512	325	844
8	2736	++++	626	932	++++	2881	++++	----	----	-288	-368	----	-193	-305	-324	-436	-193	-114	++++	46	++++	++++	4559	1195
9	501	3529	4144	261	4533	1100	2547	----	----	----	-263	-50	-33	-27	-32	-21	-11	-2	7	18	27	1227	657	632
10	50	48	++++	2376	1258	1328	++++	----	----	-66	-62	-44	-42	-43	-38	-46	-24	-7	12	22	76	545	244	302
11	760	1210	5558	3577	900	6911	1641	-452	----	-244	-337	-172	-705	-334	-92	-65	-43	-10	18	22	110	2846	47	852
12	114	2066	++++	++++	2075	3291	++++	-629	----	----	----	-678	-757	-195	-72	-49	-33	-5	12	20	22	++++	422	315
13	98	219	5512	233	4592	602	443	----	-330	-457	-113	-149	-101	-67	-48	-27	-15	-2	11	20	249	6362	1734	103
14	205	++++	390	++++	++++	6901	477	-535	-922	----	----	-103	-77	-64	-34	-22	-12	-3	5	15	19	89	++++	453
15	261	++++	590	550	++++	2223	493	-701	----	----	----	-774	-107	-101	-41	-19	-10	-2	4	13	20	4974	859	74
16	++++	1544	++++	++++	3312	571	-151	-994	-789	-343	-106	-109	-53	-48	-63	-32	-14	-2	11	37	2183	++++	968	80
17	1116	909	3267	1198	545	166	21	-340	----	----	----	----	-688	-153	-72	-151	-52	-20	7	23	52	364	++++	1501
18	1198	22	58	378	263	595	263	-148	-137	-181	-93	-61	-67	-68	-54	-50	-24	-18	2	-1	-2	-2	-1	3
19	60	39	68	72	17	135	-578	-835	----	----	----	-785	-822	-864	-819	-146	-74	-28	-3	6	44	9	50	++++
20	79	102	5361	1744	1763	192	-489	----	----	-834	----	----	----	-519	-174	-104	-72	3	12	31	64	20	47	157
21	1018	546	435	++++	2921	++++	706	----	----	-62	-40	-61	-131	-211	-155	-3	46	24	17	245	300	146	9104	++++
22	165	++++	9168	1197	1010	4782	-445	-830	----	----	-768	-53	-51	-60	-36	-40	-22	-7	6	13	105	187	++++	55
23	8965	9350	1608	600	5049	++++	128	-539	----	----	-41	-21	-29	-37	-34	-21	-18	-9	4	18	2031	2156	122	1131
24	613	8210	++++	1415	1486	5331	270	----	----	----	-99	-101	-45	-46	-50	-38	-25	-7	10	31	++++	523	671	154
25	1197	887	++++	++++	1795	8790	++++	-635	----	----	-241	-102	-144	-215	-89	-96	-18	4	31	66	63	4367	178	477
26	++++	755	5244	++++	1329	++++	675	----	-81	----	----	----	-197	-97	-254	-256	-17	4	19	126	++++	93	261	4912
27	++++	++++	1111	1439	++++	628	885	----	----	----	----	-96	-65	-77	-73	-48	-21	-5	13	18	1826	1648	50	4390
28	++++	++++	2092	++++	3262	634	1593	-307	-770	-947	-414	-199	-102	-50	-40	-28	-19	-6	12	27	107	5141	168	34
29	99	98	225	++++	879	2479	420	----	----	----	-137	-92	-72	-97	-97	-45	-35	-18	5	14	17	29	45	670
30	182	74	427	963	6583	2177	154	----	-423	----	-149	-40	-44	-47	-52	-35	-23	-8	6	15	26	154	65	191
31	150	69	400	2426	++++	845	1057	-465	----	----	-94	-68	-70	-37	-36	-24	-16	-4	8	16	31	29	176	501

PERCENT VALID HOURS FOR JULY, 1994 743*100/ 744= 99.9%

THREE HIGHEST VALUES FOR JULY, 1994 XXXX(DD,HH) = ++++(14,22) ++++(26,20) ++++(4, 3) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — AUG, 1994

RICHARDSON NUMBER 3 TIMES 100 — RINUM3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	138	1357	3302	++++	2073	2754	62	----	----	----	-42	-45	-45	-31	-29	-24	-11	-3	9	22	791	6523	1392	130
2	585	9915	++++	++++	++++	++++	++++	----	----	-499	-186	-80	-82	-52	-56	-58	-35	-2	19	36	964	93	1391	1163
3	2873	857	3059	930	++++	2390	245	----	----	----	----	----	-690	-96	-40	-20	-14	-1	13	149	776	182	460	1096
4	++++	++++	++++	++++	++++	++++	4228	----	----	-136	----	-136	-33	-31	-21	-14	-7	2	14	65	421	218	164	3495
5	677	++++	2882	++++	409	++++	++++	----	-936	----	-80	-26	-25	-29	-21	-10	-5	1	8	17	25	1286	629	++++
6	108	57	167	686	++++	269	++++	-482	-473	-164	-65	-60	-65	-57	-95	-63	-24	-4	20	31	143	1116	++++	6683
7	141	908	574	920	++++	++++	++++	----	----	-275	-88	-111	-109	-65	-48	-23	-30	-4	1	2	4	7	10	438
8	++++	121	7513	1417	99	248	86	4	-8	-4	-3	-6	-10	-19	-31	-21	-25	-8	-1	0	1	59	1427	49
9	136	612	++++	345	397	820	1419	-332	-890	-163	-69	-50	-48	-88	-216	-16	-13	-31	-4	-1	16	121	42	26
10	276	186	37	34	78	242	-53	-584	----	----	-296	-346	-131	-215	-166	-107	-59	-11	11	26	7	56	22	16
11	17	37	17	38	319	492	----	----	----	----	----	----	----	-358	-135	-107	-83	-11	10	22	263	4024	475	2752
12	57	52	92	59	288	640	849	406	-7	1	-9	-39	-59	-110	-176	-104	-85	-29	-4	5	22	40	31	68
13	363	29	17	3623	50	12	-12	-149	----	----	----	----	-840	-677	-35	-33	-121	-439	118	10	68	70	220	46
14	20	88	465	274	2365	502	4571	----	----	----	----	----	-805	-128	-674	-267	-106	-12	15	26	33	69	748	350
15	1142	528	355	1862	323	768	432	----	----	----	----	----	-755	-215	-136	-104	-73	-7	18	31	125	1421	180	++++
16	++++	++++	++++	++++	9969	++++	487	-581	-142	----	-168	-67	-56	-43	-24	-31	-18	-2	14	20	218	439	30	268
17	634	96	149	83	120	2898	384	-460	----	-76	-24	-22	-24	-4	-11	-9	-11	-5	0	14	29	308	51	++++
18	1689	569	7681	935	315	4110	++++	----	-135	-246	-124	-69	-48	-47	-32	-21	-19	-5	11	21	58	52	3	25
19	189	46	11	7	214	34	247	-41	-455	-75	-77	-68	-86	-148	-70	-87	-82	-61	11	17	235	59	34	23
20	28	133	2528	2348	477	8184	76	----	----	----	-307	-62	-53	-54	-33	-23	-12	-2	8	14	34	27	158	2399
21	66	197	152	61	454	++++	556	-180	----	-64	-23	-22	-17	-21	-26	-20	-7	0	12	69	7959	2906	53	219
22	53	1630	130	114	160	366	483	-32	----	-55	-28	-28	-39	-32	-24	-21	-9	3	17	4698	++++	1840	60	++++
23	3110	524	++++	1586	4255	++++	488	-474	-677	----	----	-624	-132	-61	-38	-24	-12	4	16	1488	++++	74	50	523
24	5261	1793	1586	++++	++++	9447	++++	-700	-994	----	----	-46	-53	-51	-34	-39	-17	6	17	40	29	361	171	326
25	++++	754	4547	1151	++++	++++	4171	----	-393	-14	-23	-23	-31	-29	-26	-22	-10	5	20	108	1005	1167	102	502
26	++++	++++	1433	690	++++	402	3930	-36	-927	-478	-40	-43	-44	-34	-26	-16	-5	2	10	5	9	5	6	15
27	28	60	37	16	29	9	1	-106	-188	-888	-870	----	----	----	----	----	-296	-100	89	554	1593	193	175	8029
28	++++	++++	++++	++++	7960	7714	577	-680	----	----	----	-40	-51	-61	-31	-23	-15	2	15	31	371	263	2457	104
29	172	3469	1038	715	1513	8270	610	-520	-294	----	----	-177	-98	-96	-82	-53	-37	9	25	48	++++	735	1457	5114
30	4845	++++	++++	++++	4014	++++	++++	----	-719	----	----	-334	-203	-320	-65	-33	-12	5	44	1213	4258	849	++++	628
31	516	1053	3491	452	985	3440	180	-88	----	-320	----	-86	-35	-25	-17	-19	-5	4	15	63	139	135	1303	411

PERCENT VALID HOURS FOR AUG, 1994 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR AUG, 1994 XXXX(DD,HH) = ++++(23,20) ++++(6,22) ++++(29,20) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — SEPT, 1994

RICHARDSON NUMBER 3 TIMES 100 — RINUM3

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	2910	++++	++++	5649	937	4822	++++	-441	----	-786	-144	-30	-35	-26	-27	-18	-7	4	16	20	219	88	357	++++
2	718	++++	++++	++++	7381	1269	1184	-250	-445	-28	-20	-22	-23	-16	-11	-8	-3	3	13	23	380	4463	110	164
3	871	169	++++	382	++++	530	934	29	----	----	----	-556	-68	-68	-37	-30	-16	7	38	90	++++	122	++++	341
4	6308	6594	++++	8959	5671	++++	3413	-349	----	-425	----	-245	-137	-170	-308	-84	-48	7	36	149	1334	441	502	++++
5	750	3137	4770	6673	637	1013	752	----	----	----	----	-740	-89	-118	-68	-48	-19	7	44	222	852	++++	2144	4321
6	2104	3185	913	6882	1491	9467	++++	-177	-284	----	----	-96	-78	-89	-62	-42	-15	10	27	716	96	79	1932	555
7	7544	++++	7999	3860	4439	412	797	-782	----	-342	-614	-46	-43	-54	-34	-23	-4	10	18	25	217	55	363	++++
8	1769	++++	++++	4063	1114	++++	4572	-188	----	----	-48	-26	-25	-18	-14	-8	-3	5	10	49	79	1390	804	103
9	602	++++	++++	3925	++++	++++	++++	22	-280	----	-98	-36	-41	-33	-33	-9	3	7	8	7	9	10	12	9
10	9	11	10	11	11	14	6	0	-5	-8	-9	-11	-12	-9	-7	-5	-1	3	11	25	53	21	15	13
11	22	20	51	148	339	242	236	7	-9	-16	-21	-15	-18	-16	-14	-11	-6	5	15	24	48	265	26	27
12	18	9	22	34	87	39	31	3	-19	-17	-10	-11	-20	-20	-17	-14	-5	2	4	18	3341	43	29	24
13	12	164	79	70	650	5399	++++	-1	-673	-177	-149	-132	-69	-97	-57	-38	-12	2	49	385	120	515	++++	1729
14	++++	++++	268	++++	498	123	921	-48	-32	-37	-224	----	----	----	-951	----	-305	107	117	898	5520	421	4903	++++
15	6188	++++	287	369	294	493	460	16	-54	-95	----	----	----	----	----	----	-422	-248	91	138	351	895	++++	3669	966
16	++++	267	519	2236	558	480	311	16	-53	-36	----	----	-561	----	-767	----	8224	321	98	++++	632	++++	++++	328
17	++++	1621	439	458	300	611	307	6	-49	-71	-92	-170	-426	-145	-265	-41	-11	15	54	299	336	++++	303	++++
18	968	1036	1350	634	362	464	191	****	-33	-106	-455	-139	----	-196	-210	-885	-105	19	39	9469	524	3910	639	561
19	++++	1043	944	290	****	235	****	-5	31	****	****	****	****	-1	-20	-17	-7	0	5	8	7	10	45	488
20	++++	181	2383	674	126	2200	****	****	****	****	****	****	****	----	----	----	-18	-2	5	59	68	23	196	772	70
21	185	6241	101	616	151	219	215	-13	----	-996	----	-476	-152	-484	----	----	-251	38	43	145	++++	1359	447	9275
22	1201	1471	++++	359	1437	1889	2420	656	----	----	----	----	----	-293	-714	-82	-14	26	1625	645	334	686	1098	2056
23	823	++++	2060	2929	5720	6601	721	----	-851	----	----	-731	----	-488	----	-692	35	157	70	870	809	550	5734	++++
24	2880	1097	535	9986	3433	++++	1771	-769	-345	----	----	----	-388	-64	-52	-12	-4	22	1877	432	75	231	1936	484
25	4714	++++	2068	943	++++	++++	870	----	----	----	----	-317	-191	-161	-69	-52	-10	15	22	298	9317	86	2477	4611
26	476	8449	782	1093	++++	6910	++++	196	----	----	----	----	----	----	-796	-157	-3	14	25	50	1025	34	8087	++++
27	470	++++	2540	728	++++	++++	5009	++++	----	-398	-591	-284	-113	-112	-56	-11	-2	8	56	1244	1290	67	116	673
28	1385	1359	935	++++	2045	1091	459	-475	----	-440	----	-60	-26	-18	-10	-6	0	7	9	13	13	16	80	19
29	15	77	8	26	33	42	-4	21	-146	-36	-14	-9	-1	6	4	5	8	17	13	51	86	296	34	76
30	161	4356	434	2882	344	++++	++++	++++	----	-981	----	-588	-529	-681	----	-382	-424	675	72	++++	++++	433	534	2334

PERCENT VALID HOURS FOR SEPT, 1994 707*100/ 720= 98.2%

THREE HIGHEST VALUES FOR SEPT, 1994 XXXX(DD,HH) = ++++(3,22) ++++(28, 3) ++++(9, 5) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — OCT, 1994

RICHARDSON NUMBER 3 TIMES 100 — RINUM3

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	889	++++	297	++++	2144	2437	2593	1034	-471	-422	----	----	----	----	----	----	-57	93	152	110	4160	++++	++++	517
2	3406	148	25	61	++++	709	182	++++	-856	----	----	-218	-46	-37	-25	-14	3	17	28	3964	1580	1108	449	733
3	429	++++	1372	133	848	++++	1740	14	4	-1	-9	-111	----	----	-147	-26	71	1197	185	8796	205	1532	97	6
4	7	12	65	56	75	63	1003	10	-3	-8	-11	-14	-8	-4	-4	-2	1	6	26	12	11	5	22	10
5	9	46	27	10	9	4	1	-3	-10	-12	-20	-29	-27	-35	-34	-43	1	17	17	43	278	2990	204	++++
6	3954	152	901	354	6898	8932	++++	-591	----	----	-885	----	----	----	----	-102	15	32	17	19	2895	++++	8932	178
7	240	806	270	++++	2865	193	665	1544	-416	----	-95	-66	-57	-58	-42	-12	6	16	26	34	29	61	131	203
8	203	19	41	243	3671	366	317	73	-18	-142	-173	-478	----	----	-762	----	3	18	160	72	378	511	2325	808
9	659	2405	++++	242	++++	798	5949	399	----	-220	-415	----	----	----	-429	-307	72	45	194	272	72	++++	441	5578
10	3648	9836	6245	2520	2220	++++	4649	-129	-13	----	-774	-714	-26	-25	-17	-6	8	22	208	++++	407	437	++++	1511
11	3308	++++	++++	2720	6025	2405	717	1075	-874	----	-827	-76	-39	-52	-45	-13	18	30	68	802	194	4350	866	++++
12	++++	1559	2160	++++	++++	++++	++++	++++	----	----	-875	-127	-23	-10	-7	-3	5	12	16	20	41	12	7	9
13	7	13	150	107	35	232	891	101	-478	----	----	----	----	-417	-374	-232	940	220	49	738	508	32	4	21
14	20	42	24	48	122	253	123	-48	-412	----	-493	-151	-53	-41	-24	-8	1	3	5	10	7	5	0	-1
15	9	13	13	28	35	19	9	-12	-987	-85	-41	-31	-28	-35	-13	-7	-2	26	74	81	194	35	15	32
16	178	185	++++	1705	3981	442	1260	140	----	----	-372	-158	-88	-160	-66	-65	-7	18	22	19	63	443	3400	658
17	++++	2092	++++	1700	906	8645	1238	++++	----	-32	----	----	-434	----	-579	-241	45	36	95	230	2349	659	++++	++++
18	602	6359	++++	2982	8305	1140	443	-42	----	-168	----	-577	-140	-92	-65	-24	15	44	157	935	288	2221	976	8530
19	3033	++++	4380	381	3255	3298	2952	3282	----	-124	-403	-490	----	----	-998	----	231	45	267	3495	793	1175	4121	++++
20	++++	1700	++++	++++	++++	4453	1865	++++	----	----	-418	----	-714	-130	-122	-47	46	40	131	1872	552	++++	1737	629
21	++++	1403	++++	++++	1614	2339	1047	++++	----	----	----	----	----	-182	-60	-6	21	59	244	++++	143	3517	9560	++++
22	++++	688	++++	++++	++++	6084	7001	794	----	----	----	----	-602	-173	-26	6	26	72	1129	++++	1483	353	1979	++++
23	++++	484	2452	1750	++++	9903	743	++++	-183	----	----	-791	----	----	-82	-2	21	57	129	586	994	2250	++++	++++
24	++++	791	120	973	1842	155	396	++++	----	----	----	----	----	----	----	-74	137	43	65	++++	521	3336	2110	++++
25	++++	1436	2857	2881	6861	889	801	110	-124	----	----	----	----	----	-599	37	35	25	238	893	1499	276	++++	8974
26	3187	632	4939	1138	++++	++++	++++	++++	-200	----	----	----	----	----	----	-13	24	28	86	++++	5342	333	785	823
27	521	663	1663	5630	++++	3381	1993	++++	-603	----	----	----	-595	-16	-23	3	30	179	1141	6595	++++	++++	1564	6476
28	1676	++++	++++	9557	++++	3033	3073	++++	11	----	-460	----	----	----	-135	6	20	26	127	131	7134	7062	496	++++
29	246	736	1020	732	201	720	2829	2290	134	----	----	-631	----	-634	-187	-362	78	22	215	87	1705	230	3857	183
30	987	6882	6022	3440	218	1549	174	165	-7	-43	-73	-40	-46	-36	-31	7	23	21	68	++++	++++	888	6371	++++
31	3865	9404	++++	3473	++++	1080	9471	680	----	----	-137	----	----	----	-479	1522	357	186	106	209	973	1305	++++	++++

PERCENT VALID HOURS FOR OCT, 1994 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR OCT, 1994 XXXX(DD,HH) = ++++(20, 2) ++++(23,22) ++++(12, 0) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — NOV, 1994

RICHARDSON NUMBER 3 TIMES 100 — RINUM3

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	420	5685	4122	2794	++++	2081	++++	734	-358	-830	----	----	-23	-5	-2	5	15	23	11	8	9	10	11	16
2	16	9	27	18	16	8	9	7	10	-6	-7	-21	-56	-25	-10	-6	-2	0	4	12	3	0	-4	-4
3	-5	-6	-16	8	15	13	25	10	-39	-19	-23	-32	-26	-12	-15	-8	4	39	83	69	98	97	87	83
4	570	29	24	47	513	++++	533	646	----	-265	----	----	----	-691	-119	-11	22	45	1797	++++	++++	956	9126	486
5	3043	631	516	6623	1434	1622	1683	809	----	----	-533	----	----	----	-136	-168	25	28	91	70	76	29	52	328
6	274	++++	++++	1030	++++	2274	9345	++++	-109	----	----	----	----	-601	----	-70	33	234	214	93	120	1178	1000	++++
7	5227	3029	665	++++	++++	++++	5648	570	++++	----	----	-900	----	----	-62	----	2113	332	++++	1998	++++	5384	++++	2022
8	++++	507	377	31	333	645	5067	8550	----	----	----	----	-215	-168	-40	-5	14	41	41	880	++++	2795	7183	++++
9	771	++++	++++	++++	1608	++++	++++	++++	711	----	----	-761	-67	-51	-12	-2	8	61	10	37	61	65	177	++++
10	629	5470	325	5336	544	145	++++	67	0	-345	-25	-1	-3	-1	-1	-1	46	7	13	16	13	66	238	1815
11	2151	567	6415	819	++++	3755	613	3099	127	-625	----	----	----	----	-193	-28	23	12	23	34	29	131	244	16
12	32	36	159	2897	++++	3131	++++	1036	450	4273	-13	-31	-39	-28	-19	-5	15	36	65	++++	744	15	26	35
13	35	65	62	1099	120	1382	3151	4374	222	-80	-18	-75	-77	-82	-38	-3	12	14	26	196	391	49	226	119
14	1082	78	750	3479	249	540	153	204	51	----	----	----	-445	-273	-224	-46	17	43	142	195	++++	++++	++++	1739
15	7496	++++	4008	++++	1445	++++	++++	2841	149	----	----	----	-540	-910	-28	7	23	75	252	38	26	84	167	312
16	++++	1773	433	1647	++++	9600	239	30	6	-60	-473	-98	-47	-22	-15	-2	3	2	16	6	8	13	107	72
17	1745	269	4745	179	++++	692	841	2676	1454	-28	-93	-24	-10	-4	-8	-1	24	44	8	7	11	1	2	37
18	10	13	9	4	4	10	75	14	15	15	17	14	15	12	8	14	34	42	18	67	42	16	12	39
19	103	650	103	57	++++	660	++++	1658	632	109	127	137	155	846	++++	++++	1236	648	693	33	117	9190	429	9256
20	++++	3333	++++	280	4347	819	++++	701	832	141	1502	----	274	540	98	106	225	156	2024	633	++++	1185	461	667
21	671	285	392	226	1946	2361	4657	++++	-76	-18	----	----	-944	----	----	384	1067	++++	1434	1546	755	276	1132	563
22	1454	721	++++	111	64	41	26	24	16	7	1	-3	-3	-3	-3	4	33	23	55	395	953	186	35	625
23	4721	++++	++++	++++	++++	447	1467	3000	974	++++	169	-641	-395	----	-125	148	6056	930	690	2038	202	++++	561	1163
24	756	++++	2341	3923	4674	163	515	1505	----	342	----	5616	-25	-509	----	350	595	6434	211	357	++++	5648	++++	5425
25	1568	3298	198	633	1022	9464	++++	1189	7	----	25	1	-1	-1	1	1	3	3	3	4	4	5	4	5
26	6	9	10	5	4	6	17	9	1	-3	-11	-63	-5	1	4	9	18	13	20	54	156	110	394	36
27	151	7899	5703	++++	418	2070	8698	560	818	1333	----	----	-925	-147	-16	6	43	61	++++	++++	1324	1753	1785	1284
28	9208	184	5160	++++	++++	93	194	453	689	-356	----	-224	-848	-96	-64	40	35	49	378	2348	1430	++++	++++	196
29	2199	1725	++++	4272	1996	778	1868	5526	78	866	----	----	----	----	----	-4	2410	8037	1156	1517	++++	8171	590	1117
30	506	++++	4834	++++	1700	++++	2053	2946	150	----	-939	----	----	----	695	5737	273	385	120	758	++++	496	4363	1826

PERCENT VALID HOURS FOR NOV, 1994 720*100/ 720=100.0%

THREE HIGHEST VALUES FOR NOV, 1994 XXXX(DD,HH) = ++++(22, 2) ++++(20, 0) ++++(30, 3) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — DEC, 1994

RICHARDSON NUMBER 3 TIMES 100 — RINUM3

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	1363	++++	1125	1005	++++	++++	1074	++++	4119	-377	----	-519	-903	-504	++++	77	420	346	++++	676	1154	++++	205	3443
2	148	++++	310	1371	4358	7221	1617	3685	373	----	----	-972	-328	-835	-295	58	267	912	167	1403	++++	3864	++++	3270
3	++++	548	++++	1916	423	1398	2032	++++	5461	2783	----	----	-629	31	232	1555	251	139	47	104	1054	215	1568	++++
4	1914	3649	++++	1894	++++	5196	1881	3098	4069	-86	-95	610	301	59	++++	629	1148	2490	586	59	22	71	249	553
5	1911	++++	497	558	176	7465	283	309	3728	445	-462	----	-298	-48	-13	-1	25	13	165	77	46	204	123	155
6	85	3362	229	1005	1537	1441	1315	193	192	-448	----	----	----	-426	-34	8	19	79	511	62	164	59	960	405
7	++++	985	66	283	402	6293	555	314	1087	-569	-245	-748	-294	-155	-17	22	21	42	2054	2386	579	++++	++++	6420
8	6300	3108	101	6946	96	30	35	24	10	-2	-9	-12	-17	-18	-12	14	33	****	****	****	****	****	****	****
9	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
11	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
12	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
15	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
18	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	28	378	1627	++++	++++	3646	5607	436	182
20	++++	6829	2525	684	++++	4359	++++	2462	++++	67	----	----	----	----	-65	317	103	70	921	++++	261	8287	++++	1285
21	2683	++++	++++	637	2322	3965	1272	310	115	-37	----	----	----	----	----	230	360	1295	199	2708	4127	231	305	5147
22	2139	++++	++++	7489	350	++++	633	0	++++	4680	-60	38	168	6	152	51	673	175	298	279	187	1594	2677	963
23	1185	18	6	11	38	7007	2502	++++	99	408	----	----	----	----	----	-79	16	5	17	0	1	4	293	43
24	22	-345	44	1	-40	-107	965	250	----	----	----	----	----	-444	----	-182	141	10	51	31	-6	-48	41	4
25	7	28	-138	11	26	6	37	-200	-75	-78	-11	-32	-269	-53	-52	-48	-6	1	1	3	6	2	7	17
26	780	10	9	96	17	1764	457	11	7	0	-12	-24	-29	-41	-61	7	15	13	4647	535	17	416	147	113
27	242	1304	439	1668	149	7441	++++	251	429	1381	----	----	----	----	----	-22	120	200	2794	38	935	282	504	4887
28	57	91	959	153	62	141	1908	75	-4	-614	----	----	-27	-8	-16	-4	-2	-1	2	-5	-10	-9	10	-22
29	2	-2	-3	-8	-156	-109	25	6	-151	----	----	----	-30	-12	-19	-24	-5	-171	1343	36	7	20	7	6
30	15	18	11	9	13	16	76	-206	7	-16	-17	-59	-597	----	----	----	-9	19	12	1847	121	229	++++	++++
31	++++	++++	90	-109	-358	-114	91	----	0	-391	-159	----	----	----	----	-171	126	1284	460	151	361	1118	++++	652

PERCENT VALID HOURS FOR DEC, 1994 482*100/ 744= 64.8%

THREE HIGHEST VALUES FOR DEC, 1994 XXXX(DD,HH) = ++++(7,22) ++++(20,22) ++++(3,23) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 JAN, 1994

MONIN-OBUKHOV LENGTH 1 TIMES 10 MONIN1

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	54	<10	<10	<10	<10	21	66	50	-372	-80	<10	-3	52	55	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2	<10	<10	<10	12	166	55	-397	-360	-37	117	<10	-70	<10	<10	83	<10	<10	<10	<10	<10	14	<10	<10	<10
3	28	<10	<10	<10	<10	36	111	-156	-102	<10	<10	<10	<10	38	<10	<10	<10	<10	<10	10	<10	<10	<10	<10
4	46	<10	<10	<10	41	60	42	63	29	-75	-3	-20	-19	<10	<10	<10	<10	<10	19	<10	<10	<10	42	<10
5	54	54	22	<10	<10	<10	11	61	34	99	<10	-3	-32	22	164	372	497	721	519	70	100	36	<10	<10
6	<10	<10	<10	<10	<10	<10	37	100	57	33	-186	----	----	----	----	698	64	40	22	<10	<10	<10	<10	14
7	<10	12	<10	31	44	-264	24	-27	<10	-1	-43	<10	-7	-6	<10	<10	<10	<10	42	<10	<10	<10	<10	45
8	<10	<10	<10	25	18	-98	1412	-229	-15	171	<10	-78	<10	-69	48	81	35	46	<10	<10	21	11	47	<10
9	<10	59	12	-49	46	640	-216	-62	-74	-28	-7	-34	<10	-21	-1	<10	<10	<10	<10	47	20	<10	76	64
10	<10	<10	<10	88	<10	20	<10	67	142	545	----	-525	-267	-329	337	73	21	13	19	<10	<10	<10	<10	<10
11	<10	<10	<10	44	21	----	49	-417	-8	<10	-16	-19	<10	81	<10	43	26	66	99	40	72	43	15	40
12	85	<10	<10	<10	<10	12	<10	15	44	24	329	-700	942	921	579	220	60	33	59	81	66	<10	30	57
13	<10	<10	<10	11	<10	19	<10	-627	270	-38	<10	-1	-18	-79	115	177	79	76	126	<10	54	30	<10	<10
14	11	16	30	30	<10	26	16	24	<10	26	-2	-1	-5	-4	-10	<10	<10	<10	<10	<10	24	34	<10	<10
15	41	31	<10	<10	31	<10	<10	105	-179	12	-153	-1	36	<10	11	<10	44	<10	<10	13	<10	15	<10	40
16	<10	48	38	<10	15	19	55	-120	56	<10	-8	-2	323	2452	906	332	54	21	<10	<10	<10	21	<10	<10
17	<10	<10	<10	<10	<10	12	12	19	-660	111	58	-18	230	-12	<10	<10	<10	<10	<10	19	20	<10	42	<10
18	<10	<10	<10	<10	<10	<10	18	<10	50	-14	92	<10	-23	-66	<10	<10	<10	<10	<10	<10	14	<10	<10	<10
19	<10	<10	<10	<10	19	<10	52	<10	<10	<10	<10	155	<10	-100	<10	<10	<10	<10	<10	<10	<10	27	<10	<10
20	<10	<10	22	<10	77	<10	996	115	-22	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
21	<10	<10	<10	<10	<10	<10	<10	408	-101	-362	-157	<10	72	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	11
22	17	18	20	<10	<10	<10	<10	<10	-577	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
23	<10	14	21	35	<10	64	-50	-50	-39	-29	-58	-69	-110	201	85	267	119	132	38	25	<10	<10	<10	<10
24	<10	<10	<10	<10	13	<10	<10	39	-1	<10	-15	-33	56	288	195	86	<10	47	<10	<10	<10	<10	12	99
25	114	239	190	278	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
27	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
28	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
29	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
31	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****

PERCENT VALID HOURS FOR JAN, 1994 580*100/ 744= 78.0%

THREE HIGHEST VALUES FOR JAN, 1994 XXXX(DD,HH) = 2452(16,13) 1412(8, 6) 996(20, 6) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 — FEB, 1994 — MONIN1

MONIN-OBUKHOV LENGTH 1 TIMES 10

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	****	****	****	****	****	****	****	****	****	****	****	-79	-72	-298	40	<10	<10	<10	<10	11	<10	<10	28	<10
2	36	<10	54	18	33	61	264	-44	-15	15	17	<10	<10	-3	-44	34	<10	<10	41	24	<10	<10	24	39
3	<10	23	25	<10	53	<10	51	-87	-55	-11	<10	-44	<10	-93	-145	31	38	34	25	<10	17	<10	22	40
4	89	107	115	65	43	173	-302	----	-57	-37	-5	0	0	-1	-21	-21	-114	136	<10	11	<10	<10	21	51
5	34	105	144	<10	17	129	642	----	-28	-32	-1	-5	-1	-23	-12	-100	61	<10	22	<10	30	28	10	28
6	11	53	54	14	55	31	43	107	48	-25	-29	-3	-12	-13	-34	-93	18	21	10	39	20	36	81	15
7	70	33	59	<10	28	118	48	99	-158	-15	-18	-15	-49	-69	-502	-613	129	****	****	****	****	****	****	****
8	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
9	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
11	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
12	****	****	****	****	****	****	****	****	****	****	****	****	****	-8	-8	-21	<10	23	<10	<10	<10	28	<10	100
13	<10	24	158	----	-32	-17	-20	-20	-9	-49	<10	-6	<10	<10	<10	<10	<10	<10	<10	31	20	<10	<10	13
14	<10	<10	77	----	154	-26	-27	-33	-40	<10	-62	<10	<10	-71	<10	<10	<10	<10	<10	<10	17	<10	<10	<10
15	<10	<10	<10	<10	50	59	21	136	174	-391	-35	<10	<10	24	-39	16	<10	<10	<10	<10	23	<10	<10	<10
16	<10	52	153	254	182	128	470	-360	-115	-60	-21	-32	-25	-148	----	1761	637	116	37	<10	44	54	53	77
17	30	54	147	565	830	----	-77	-13	-72	-10	-6	-2	0	-31	-123	-705	374	81	100	10	<10	28	51	29
18	99	26	191	-272	-227	-545	-200	-87	403	-34	-137	-710	-176	-153	-227	-358	210	172	156	22	18	<10	47	<10
19	12	<10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	<10	<10	14	<10	<10	<10
21	<10	12	27	72	<10	<10	21	16	-11	-13	-29	-336	-21	-54	-144	-246	308	120	12	<10	<10	<10	<10	<10
22	<10	23	<10	<10	<10	39	118	61	210	155	-173	-122	-100	-146	-121	-335	786	116	82	68	22	<10	<10	11
23	12	12	<10	<10	74	54	64	-70	----	-28	<10	<10	<10	-3	-8	<10	35	<10	20	54	<10	<10	75	39
24	24	489	----	-557	-208	1656	-82	-84	-72	<10	<10	-14	30	-171	-236	-946	185	37	27	24	<10	<10	<10	33
25	<10	<10	20	20	95	26	334	-8	-34	97	<10	<10	<10	-2	-27	-921	231	25	<10	<10	28	15	<10	12
26	<10	<10	30	94	2132	23	1346	-30	-30	-12	<10	-5	-50	-40	----	1726	520	239	67	<10	<10	<10	<10	<10
27	<10	60	<10	<10	33	<10	70	20	-41	-40	-55	-113	-387	----	43	101	143	144	83	76	<10	83	255	134
28	<10	86	18	26	21	<10	<10	<10	286	----	-289	-200	-57	-103	-185	-794	377	118	65	185	119	<10	<10	55

PERCENT VALID HOURS FOR FEB, 1994 505*100/ 672= 75.1%

THREE HIGHEST VALUES FOR FEB, 1994 XXXX(DD,HH) = 2132(26, 4) 1761(16,15) 1726(26,15) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 MAR, 1994

MONIN-OBUKHOV LENGTH 1 TIMES 10 MONIN1=

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	15	59	<10	<10	<10	<10	<10	<10	-76	-4	-69	-225	-145	-70	-88	-183	88	14	<10	16	<10	41	13	<10
2	<10	<10	<10	<10	31	-369	-97	-14	-407	0	0	-5	-5	0	-16	-9	47	<10	<10	19	<10	11	17	<10
3	<10	<10	35	28	15	198	----	-150	0	15	<10	0	-11	-13	-75	-223	206	49	77	37	<10	<10	28	24
4	<10	<10	106	77	-705	67	-28	-38	-29	-44	-1	90	-6	-23	-26	-81	234	79	32	<10	36	20	30	43
5	<10	97	19	107	57	192	765	-187	-17	-8	-10	-8	-20	-87	----	5494	750	82	21	<10	<10	<10	106	147
6	21	<10	30	32	22	27	36	<10	<10	-82	-21	-44	-179	----	1799	----	54	24	<10	39	****	225	896	75
7	<10	<10	34	<10	52	<10	<10	21	43	-8	-33	-4	-55	-73	-177	-113	51	10	<10	25	<10	<10	<10	<10
8	30	55	17	<10	<10	23	53	29	974	-6	-5	-11	-10	-10	-63	-130	-21	<10	<10	<10	<10	<10	18	30
9	<10	67	<10	<10	<10	<10	112	-30	0	-53	0	-9	0	-16	-6	-5	-240	52	53	13	13	38	<10	-407
10	<10	100	177	-39	201	48	284	-23	-1	-8	-5	-25	-251	-510	-614	----	560	453	100	20	44	73	<10	20
11	<10	<10	<10	126	91	300	34	59	573	-278	-389	-413	-512	-698	-558	----	----	2227	743	689	416	72	173	705
12	516	819	403	128	86	86	78	266	-705	-431	----	-349	-312	-180	-550	-924	2839	293	74	57	51	133	62	22
13	79	<10	<10	74	156	53	183	401	-440	-194	-119	-4	-12	-13	-145	-145	116	<10	<10	<10	35	16	24	-464
14	70	<10	67	30	172	111	-81	-8	-10	-40	-12	-13	-4	-11	-4	-24	-41	<10	24	<10	12	15	<10	<10
15	105	51	<10	<10	59	87	-46	0	-14	0	0	-7	-30	-161	-134	----	1135	164	<10	<10	<10	<10	<10	<10
16	<10	<10	<10	<10	<10	<10	<10	111	1281	----	-970	-501	-443	-405	-427	-537	++++	312	86	53	87	95	<10	<10
17	<10	<10	<10	<10	25	20	32	67	-193	-54	-12	-11	-8	-2	-45	-245	-922	101	20	<10	47	<10	<10	<10
18	98	10	-209	-140	-563	243	298	1414	----	-864	-563	-552	-461	-596	-905	----	----	1019	402	171	381	705	328	111
19	74	51	350	353	269	61	548	1301	7445	----	-808	-639	-372	-461	-462	-326	----	6325	3815	5667	635	----	-825	-204
20	193	27	<10	11	11	84	571	-76	-60	0	-11	-2	-2	-10	-15	-15	-30	375	126	132	16	16	112	86
21	102	194	-33	435	-437	-246	-76	0	-6	0	-20	-94	-143	-209	-296	-521	----	1314	414	102	<10	11	<10	28
22	54	76	<10	15	20	<10	41	610	----	----	----	----	----	----	----	----	----	385	82	34	78	22	38	12
23	33	13	63	<10	<10	49	20	-48	-26	-4	0	-3	-3	0	-10	-14	-57	346	61	16	34	19	21	36
24	23	51	117	-712	56	106	127	476	-20	-20	-37	-17	-19	-46	-89	-236	----	132	34	<10	<10	55	<10	16
25	46	21	14	66	270	367	176	486	409	23	-158	-94	-11	-181	-292	-435	-319	----	711	163	38	45	<10	<10
26	19	24	36	92	139	4119	170	-45	-24	-26	-109	-122	-248	-116	-245	-752	1281	104	18	<10	<10	<10	<10	<10
27	74	<10	<10	<10	<10	80	<10	<10	<10	-5	-86	-108	-136	-382	-472	----	1144	144	<10	19	<10	<10	<10	<10
28	<10	30	18	<10	<10	37	89	----	<10	-1	-7	0	-26	-87	-247	-975	390	115	18	<10	<10	<10	<10	<10
29	<10	<10	<10	<10	<10	<10	294	0	25	<10	<10	-1	-8	0	-15	-6	5365	42	34	<10	11	<10	<10	14
30	46	12	<10	<10	<10	15	<10	50	59	-12	-18	-4	-10	-43	-23	-13	-80	48	20	<10	97	42	<10	11
31	<10	<10	55	<10	<10	33	-6	-24	-78	-12	-24	-187	-385	-389	-438	-675	----	259	108	13	34	41	<10	<10

PERCENT VALID HOURS FOR MAR, 1994 743*100/ 744= 99.9%

THREE HIGHEST VALUES FOR MAR, 1994 XXXX(DD,HH) = ++++(16,16) 7445(19, 8) 6325(19,17) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 APR, 1994

MONIN-OBUKHOV LENGTH 1 TIMES 10 MONIN1

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	23	35	<10	<10	39	<10	-189	-14	-7	-230	-181	-74	-32	-18	-23	-62	-116	<10	20	33	11	<10	<10	<10
2	<10	<10	<10	18	38	14	19	-69	-10	-6	-11	-6	-4	-4	-11	-18	-145	<10	<10	<10	<10	35	44	<10
3	<10	<10	<10	<10	75	<10	14	350	----	----	-783	-481	-348	-302	-533	-589	-232	140	217	166	172	742	287	<10
4	<10	31	<10	13	35	<10	246	-23	-21	-24	-30	-10	-15	-396	-436	-703	----	1070	259	147	82	<10	21	20
5	18	<10	<10	<10	<10	<10	----	-14	<10	****	****	****	****	****	-34	-54	-208	220	63	53	<10	15	20	<10
6	<10	<10	<10	40	183	71	-44	-43	-41	-33	-4	-6	-9	-9	-107	-283	-596	393	<10	44	183	175	336	70
7	<10	15	33	67	68	<10	-15	-11	-5	-11	-15	-13	-25	-30	-61	-137	-274	354	49	41	<10	<10	37	<10
8	36	<10	97	12	43	<10	129	-227	-102	-66	-38	-20	-108	-259	-559	----	-979	3522	656	582	648	1205	448	425
9	112	204	247	168	106	167	583	1470	----	<10	-7	-25	-176	-368	-169	-334	1593	686	85	46	84	<10	<10	44
10	61	21	13	22	<10	17	-95	-6	-59	-203	-136	-244	-177	-336	-329	-606	----	2476	744	346	401	179	108	112
11	77	127	123	43	33	<10	230	-44	-30	-12	-5	-5	-9	-9	-13	-19	-17	152	24	<10	76	<10	52	13
12	21	<10	38	<10	<10	36	-214	-28	-1	-3	-2	-5	-18	-32	-55	-60	-290	307	30	<10	35	<10	<10	<10
13	<10	<10	69	30	50	----	-3	-1	-2	-14	-6	-26	-51	-56	-100	-181	-780	431	83	14	<10	17	<10	<10
14	<10	15	42	57	141	86	-138	-10	-2	0	-6	-10	-8	-31	-50	-93	-476	<10	16	<10	<10	77	49	36
15	105	140	167	115	90	126	31	-19	-124	-47	-60	-15	-9	-12	-2	-8	-19	<10	<10	28	65	44	<10	<10
16	<10	<10	18	<10	<10	60	-9	-9	0	-10	-6	-16	-41	-45	-113	-189	859	32	<10	<10	50	25	<10	44
17	<10	<10	<10	111	267	112	-190	-5	0	0	-4	-12	-87	-113	-665	-735	878	333	154	19	<10	17	<10	<10
18	44	23	<10	11	<10	22	-30	-25	-3	-5	-4	-11	-75	-11	-44	-40	-110	217	52	32	<10	<10	10	<10
19	13	<10	21	19	71	48	0	<10	-5	-1	0	-2	-26	-40	-75	-69	-139	238	56	44	<10	<10	<10	39
20	36	13	<10	<10	<10	<10	-22	-4	-1	-1	-4	-20	-105	-174	-254	-290	-795	378	84	12	24	<10	<10	12
21	<10	31	<10	<10	25	121	-10	-7	-1	-12	-85	-605	-609	-504	-421	-852	----	2115	319	260	189	17	<10	17
22	81	178	98	<10	<10	44	-468	-56	-9	-30	-44	-53	-170	-403	-477	-557	-656	1773	111	171	<10	14	<10	214
23	226	182	334	254	306	55	776	----	----	-852	-990	-964	-996	-957	-980	----	----	----	7966	3457	2225	3571	3878	3967
24	3211	1350	1857	451	86	421	----	-700	-342	-276	-207	-112	-79	-78	-108	-146	-334	-467	-664	----	21	80	32	100
25	18	19	105	284	405	51	-227	-131	-569	-522	-420	-345	-694	-991	-672	-420	1654	567	560	140	62	124	40	16
26	17	30	2134	273	172	-234	-15	-7	-1	-4	-7	-47	-177	1249	----	-386	-605	----	220	125	16	16	175	323
27	42	34	-178	----	47	1293	-291	-73	-34	-152	-91	-363	-246	-199	-97	-159	-463	-177	135	146	111	416	210	180
28	183	419	79	96	126	190	-65	-15	-1	-13	-77	-15	-60	-159	-175	-55	-29	272	56	<10	40	109	39	<10
29	<10	41	39	84	132	1240	-167	-6	-4	-2	-22	-38	-57	-16	-16	-22	-30	-72	<10	34	<10	41	32	33
30	<10	25	<10	23	36	69	-97	-12	-2	-3	-10	-31	-94	-289	-633	----	----	211	39	13	<10	<10	<10	44

PERCENT VALID HOURS FOR APR, 1994 715*100/ 720= 99.3%

THREE HIGHEST VALUES FOR APR, 1994 XXXX(DD,HH) = 7966(23,18) 3967(23,23) 3878(23,22) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 MAY, 1994

MONIN-OBUKHOV LENGTH 1 TIMES 10 MONIN1

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<10	<10	27	33	107	172	3240	-27	-11	-4	-9	-15	-10	-23	-19	-16	-51	104	<10	28	17	15	29	<10
2	42	<10	<10	25	37	-121	-20	-9	-12	0	-10	-14	-41	-56	-54	-174	-400	6643	128	18	16	27	18	<10
3	10	55	13	<10	44	47	-1	-1	-3	-4	-4	-7	-21	-64	-107	-186	-272	----	64	27	<10	14	<10	42
4	38	<10	18	<10	28	++++	-10	-10	-2	-2	-4	-41	-46	-47	-363	-633	----	++++	523	101	61	17	41	109
5	<10	<10	15	<10	20	<10	23	-28	-11	-107	-261	-209	-327	-413	-457	-391	----	1299	133	39	70	116	282	<10
6	105	146	57	<10	<10	114	6954	-328	-422	-321	-288	-747	-661	-553	-700	-708	-930	----	3097	8612	----	----	2113	494
7	28	29	23	31	83	-18	-6	-22	-12	-10	-23	-35	-69	-99	-56	-91	-108	-447	----	3087	1490	581	378	488
8	142	119	59	64	55	122	-448	-92	-53	-19	-33	-96	-102	-43	-108	-19	-36	-5	161	49	111	13	45	13
9	<10	19	324	-190	-100	-8	-44	-58	-44	-97	-27	-26	-31	-23	-22	-66	-147	2310	84	<10	<10	14	<10	<10
10	31	<10	34	67	52	323	-6	-59	-31	-1	-2	-11	-10	-23	-72	-23	-438	2958	18	19	12	50	72	12
11	69	31	16	<10	30	99	-4	-13	-5	-1	-9	-6	-19	-13	-17	1394	-128	522	91	60	<10	<10	<10	<10
12	<10	13	<10	<10	<10	----	0	-1	0	0	0	-13	-40	-36	-82	-218	-618	++++	445	1714	546	45	33	76
13	64	<10	39	<10	47	60	-11	-11	-1	-1	-10	-5	-8	-3	-148	-193	-105	<10	<10	<10	15	<10	<10	11
14	<10	117	<10	93	<10	16	-6	-1	0	-1	-4	-5	-132	-142	-298	-362	-929	3791	287	79	99	377	721	472
15	578	246	107	43	<10	<10	<10	----	-968	-524	-392	-441	-619	-546	----	----	----	3969	750	279	202	300	248	362
16	346	59	64	272	444	654	----	----	-786	-806	-526	-433	-421	-559	-775	----	----	----	3872	2927	----	162	69	<10
17	<10	44	<10	<10	<10	60	-6	-2	-5	-17	-201	-323	-337	-302	-215	-431	-678	----	1166	458	969	1005	232	<10
18	55	<10	95	294	308	11	-4	-2	-72	-195	-221	-269	-286	-309	-341	-334	-480	----	2290	492	144	13	40	18
19	51	26	<10	71	++++	-51	-23	-21	-7	-10	-14	0	-14	-31	-40	-47	-73	-49	-2	233	52	<10	<10	<10
20	24	81	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
21	****	<10	<10	<10	<10	-15	0	-2	0	-46	0	-75	-21	-37	-3	-61	-306	----	179	39	<10	15	<10	<10
22	<10	<10	<10	<10	<10	-87	-20	0	0	0	0	-24	-27	-15	-60	-100	-127	----	135	81	18	<10	<10	<10
23	<10	70	<10	<10	<10	-144	-8	-6	0	0	-5	-6	-26	-32	-39	-37	-145	----	862	<10	69	17	<10	24
24	<10	<10	<10	<10	<10	<10	-9	0	-4	0	0	-152	-118	-187	-50	-81	-146	325	466	282	31	27	22	16
25	17	27	15	<10	<10	<10	-98	-8	-3	-19	-33	-38	-46	-24	-20	-34	-70	-134	----	395	113	12	72	36
26	<10	72	52	51	29	833	-19	-2	-12	-22	-8	-7	-18	-28	-169	-351	-70	-609	1005	330	283	<10	12	43
27	13	18	<10	<10	86	136	-826	-10	-35	-368	-460	-336	-509	-426	-296	-648	-758	----	507	126	41	32	17	85
28	24	37	<10	<10	<10	<10	-184	-17	-12	-19	-41	-56	-65	-97	-132	-160	-322	----	61	18	<10	<10	<10	<10
29	<10	35	<10	<10	<10	241	-19	-2	0	0	-6	-17	-74	-84	-190	-249	-667	864	111	<10	17	26	<10	<10
30	15	<10	<10	<10	37	-36	-7	0	-7	0	-4	-9	-179	-650	-530	-137	----	903	554	990	280	22	141	138
31	685	168	93	<10	<10	163	-42	-12	-17	-204	-153	-57	-29	-23	-11	-40	-94	----	53	45	15	<10	<10	30

PERCENT VALID HOURS FOR MAY, 1994 721*100/ 744= 96.9%

THREE HIGHEST VALUES FOR MAY, 1994 XXXX(DD,HH) = ++++(12,17) ++++(4, 5) ++++(19, 4) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 JUNE, 1994

MONIN-OBUKHOV LENGTH 1 TIMES 10 MONIN1

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<10	<10	28	<10	21	----	-76	-341	-11	-12	-4	-8	-4	-25	-16	-20	-36	<10	<10	27	<10	<10	<10	42
2	50	11	<10	20	30	82	-10	-23	-2	-1	<10	<10	****	-23	-59	-206	-744	5113	364	43	<10	<10	<10	25
3	17	<10	<10	<10	12	-373	-72	-45	-4	-123	-353	-238	-363	-602	-717	-641	-743	1376	345	143	<10	<10	<10	<10
4	<10	<10	43	<10	<10	582	-51	-1	-55	-96	-55	-33	-44	-97	-150	-156	-603	882	167	17	<10	14	<10	13
5	13	<10	14	<10	<10	-79	-4	0	-4	-9	-23	-187	-453	-504	-590	-668	----	6829	394	140	355	183	404	295
6	102	188	58	12	58	97	----	-457	-266	-675	-728	-441	-355	-472	-493	----	----	++++	1285	505	243	258	81	73
7	49	<10	<10	<10	94	192	-65	-28	-4	-3	-7	-17	-16	-25	-35	-70	-198	----	232	64	13	<10	<10	21
8	<10	21	16	20	36	331	1408	-241	-27	-10	-8	-11	-9	-16	-11	-23	-13	-450	128	58	<10	<10	<10	17
9	<10	<10	<10	16	<10	-52	-14	-7	-11	-1	-2	-6	-5	-5	-14	-38	-75	----	85	48	21	<10	<10	<10
10	<10	15	<10	<10	<10	1348	-7	-8	-1	-1	-3	-13	-24	-36	-32	-109	-150	1399	90	25	29	<10	<10	10
11	<10	<10	17	<10	46	<10	-51	0	-2	-5	-32	-72	-91	-57	-159	-245	-651	3183	323	73	<10	<10	<10	<10
12	<10	<10	16	<10	<10	<10	-21	0	-1	-8	-88	-86	-104	-241	-331	-479	-812	6714	343	42	<10	<10	15	39
13	<10	17	<10	<10	32	264	-33	-23	-18	-93	-336	-307	-303	-447	-646	----	----	++++	537	201	<10	<10	<10	31
14	19	<10	<10	<10	<10	<10	1157	-372	-299	-428	-558	-549	-408	-414	-519	-698	-967	----	1421	794	667	471	463	343
15	135	106	61	<10	<10	88	-124	-555	-983	-910	-735	-471	-474	-447	-463	-748	----	----	1147	392	411	248	211	87
16	84	66	20	<10	<10	43	-196	-11	-36	-51	-107	-222	-275	-324	-416	-355	-499	++++	312	115	89	47	<10	31
17	12	<10	<10	<10	<10	-18	-22	-8	-9	-30	-284	-367	-453	-467	-437	-569	-922	4137	492	218	40	71	<10	22
18	<10	11	<10	<10	<10	20	-6	-6	-11	-18	-86	-217	-403	-446	-433	-428	-823	++++	336	<10	<10	24	<10	15
19	<10	<10	<10	<10	<10	31	-26	0	0	-5	-12	-53	-66	-143	-184	-306	-504	++++	174	<10	<10	<10	<10	28
20	<10	13	30	22	26	237	-9	-1	-1	-2	-54	-215	-205	-273	-382	-406	-406	-848	543	103	<10	33	<10	<10
21	<10	17	<10	70	72	148	79	52	-30	-57	-32	-69	-106	-118	-142	-163	-268	----	223	29	21	<10	<10	<10
22	<10	<10	<10	<10	25	445	-9	-1	-13	-34	-161	-314	-263	-341	-357	-448	-814	++++	313	26	15	21	<10	25
23	<10	<10	<10	<10	<10	<10	-6	0	-5	-63	-201	-286	-252	-315	-348	-491	-787	853	140	<10	<10	<10	<10	27
24	<10	<10	<10	<10	<10	60	-25	0	-15	-9	-12	-135	-165	-217	-345	-436	-949	506	153	<10	<10	<10	<10	<10
25	<10	<10	<10	<10	23	242	-7	-5	-11	-287	-289	-339	-281	-299	-449	-702	----	2675	557	124	23	<10	<10	52
26	42	<10	13	80	219	231	507	----	-722	-402	-138	-175	-322	-334	-439	-618	----	8745	1288	538	266	188	40	117
27	50	<10	25	<10	<10	11	<10	-3	-9	-101	-89	-91	-97	-153	-170	-221	-632	----	392	242	191	43	<10	21
28	10	<10	39	<10	31	95	-5	0	-4	-2	-9	-42	-143	-230	-277	-366	-995	----	130	18	<10	<10	<10	<10
29	<10	<10	34	<10	<10	<10	-11	0	-4	-2	-15	-83	-145	-171	-117	-346	-667	----	257	49	57	110	54	21
30	<10	<10	<10	21	<10	10	0	-29	-1	-3	-42	-175	-152	-198	-181	-398	-949	727	188	168	137	85	157	162

PERCENT VALID HOURS FOR JUNE, 1994 719*100/ 720= 99.9%

THREE HIGHEST VALUES FOR JUNE, 1994 XXXX(DD,HH) = ++++(19,17) ++++(6,17) ++++(22,17) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 — JULY, 1994

MONIN-OBUKHOV LENGTH 1 TIMES 10 — MONIN1

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	66	<10	56	12	55	49	97	-189	-363	-582	-629	-798	-508	-900	-846	-920	----	1843	561	120	209	88	73	14
2	72	45	<10	<10	<10	<10	64	-403	-335	-178	-156	-161	-185	-167	-195	-144	-530	7790	690	274	83	14	<10	<10
3	<10	17	<10	<10	<10	<10	-21	-52	-111	-76	-53	-49	-43	-127	-146	-270	-457	----	223	28	<10	<10	<10	27
4	<10	12	<10	<10	<10	139	-10	-2	-22	-17	-50	-59	-68	-159	-234	-467	-636	----	484	162	54	37	31	<10
5	<10	11	<10	<10	<10	<10	-192	-51	-37	-59	-51	-159	-436	-562	-564	-608	-826	----	379	61	167	188	76	18
6	<10	90	<10	<10	<10	32	11	-314	-128	-42	-15	-18	-15	-27	-7	-9	-3	-6	<10	45	57	25	<10	17
7	<10	<10	****	<10	<10	15	35	-21	-3	-3	-8	-9	-6	-14	-36	-7	-11	-95	38	53	26	21	52	<10
8	<10	22	44	<10	14	33	-17	0	0	0	-5	-20	-26	-20	-33	-13	-38	55	<10	13	<10	<10	<10	27
9	<10	<10	<10	<10	<10	<10	-21	-8	-8	-5	-21	-156	-264	-360	-322	-380	----	3556	355	65	12	<10	17	71
10	76	<10	<10	<10	<10	19	-21	<10	-5	-107	-230	-276	-194	-174	-196	-271	-477	++++	252	43	<10	<10	39	<10
11	32	18	<10	<10	<10	<10	-16	-32	-10	-9	-39	-16	-27	-49	-106	-93	-226	----	164	32	12	<10	14	<10
12	18	23	<10	11	44	16	-20	0	-8	-4	-3	-18	-24	-68	-129	-216	-390	4473	229	47	48	<10	<10	<10
13	26	<10	<10	<10	<10	30	----	-55	-16	-48	-56	-111	-95	-153	-164	-359	-859	2573	306	39	<10	<10	20	<10
14	<10	<10	<10	<10	<10	-126	0	-8	-27	-5	-11	-67	-119	-152	-305	-449	-966	7049	421	121	<10	<10	38	14
15	<10	<10	<10	<10	<10	<10	-8	-9	-33	0	-3	-44	-75	-81	-259	-479	----	++++	703	172	32	<10	76	13
16	<10	<10	<10	<10	<10	-100	-88	-8	-5	-4	-43	-98	-205	-217	-176	-303	-962	1723	191	<10	<10	<10	<10	30
17	<10	<10	<10	<10	20	228	581	-33	-12	-2	-3	-11	-26	-76	-77	-139	-363	1094	285	47	24	<10	<10	<10
18	18	117	<10	17	<10	<10	<10	-114	-76	-57	-91	-149	-136	-166	-173	-156	-410	----	348	8571	----	----	3227	524
19	83	<10	54	85	54	<10	-47	-10	0	-3	-10	-15	-6	-12	-24	-16	-132	-557	1216	205	88	355	<10	<10
20	32	<10	71	38	37	37	90	-17	-11	0	0	-13	-8	-22	-35	-98	-130	377	127	13	10	34	49	<10
21	<10	24	<10	<10	29	116	<10	0	-5	-51	-56	-25	-44	-35	-71	----	132	79	70	15	<10	<10	55	39
22	19	<10	59	12	27	137	-8	0	-33	-16	-52	-205	-202	-159	-253	-310	-414	----	393	91	<10	23	<10	<10
23	<10	<10	<10	24	<10	-291	-7	0	0	-4	-198	-456	-331	-224	-263	-432	-519	----	442	49	<10	<10	42	<10
24	<10	<10	<10	13	13	64	-21	-69	-10	-3	-115	-107	-160	-225	-220	-206	-444	----	247	32	<10	<10	24	<10
25	26	<10	<10	<10	<10	14	0	0	0	-7	-24	-85	-63	-46	-68	-101	----	162	45	31	<10	<10	22	<10
26	<10	<10	<10	<10	<10	-319	-6	0	-12	0	-4	-45	-36	-80	-29	-57	-617	382	125	<10	<10	<10	34	23
27	14	16	14	<10	<10	85	332	-7	-5	0	-16	-121	-171	-128	-138	-231	-397	++++	228	18	<10	13	<10	<10
28	<10	<10	10	<10	<10	15	0	-12	0	-6	-6	-43	-66	-142	-235	-316	-462	----	205	<10	<10	<10	23	<10
29	<10	36	<10	<10	22	<10	<10	-26	-5	-12	-67	-73	-87	-89	-135	-211	-340	----	376	117	25	<10	<10	<10
30	<10	31	13	<10	15	<10	662	-9	-12	-9	-74	-274	-195	-205	-206	-263	-514	----	431	82	21	<10	26	26
31	<10	<10	<10	<10	<10	<10	-8	0	0	-13	-98	-167	-158	-219	-295	-335	-632	6481	373	77	27	32	<10	65

PERCENT VALID HOURS FOR JULY, 1994 743*100/ 744= 99.9%

THREE HIGHEST VALUES FOR JULY, 1994 XXXX(DD,HH) = ++++(15,17) ++++(10,17) ++++(27,17) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 AUG, 1994

MONIN-OBUKHOV LENGTH 1 TIMES 10 MONIN1

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	54	<10	13	<10	21	12	-38	-4	-5	-14	-255	-270	-188	-266	-336	-479	----	4199	303	58	<10	<10	37	10
2	<10	<10	<10	<10	<10	45	-25	0	0	-11	-61	-118	-72	-164	-136	-150	-235	2088	96	<10	12	<10	20	<10
3	<10	<10	<10	<10	<10	<10	<10	-4	0	-4	-4	-4	-36	-62	-201	-502	----	1674	159	<10	<10	<10	<10	<10
4	<10	<10	<10	<10	<10	<10	-14	-7	-5	0	-4	-71	-256	-332	-566	-728	----	1027	144	<10	<10	<10	<10	<10
5	<10	<10	<10	<10	<10	<10	-6	0	0	-4	-122	-401	-354	-291	-485	-933	----	1705	347	60	76	18	90	<10
6	<10	20	<10	<10	<10	22	<10	-44	-35	-44	-198	-131	-167	-204	-180	-104	-381	747	103	34	<10	<10	44	13
7	<10	<10	<10	<10	<10	<10	-14	0	-24	-25	-96	-125	-77	-168	-195	-443	-396	++++	1427	775	721	392	236	<10
8	27	26	16	10	<10	57	21	621	-642	----	----	----	----	-496	-175	-91	-123	-836	338	175	<10	29	57	50
9	64	<10	41	25	<10	22	-410	0	-5	-56	-139	-179	-142	-87	-47	-215	-473	-256	29	128	134	34	54	114
10	29	19	128	133	49	27	-5	0	-6	-2	-17	-7	-46	-36	-45	-91	-174	----	186	81	348	<10	80	77
11	86	74	103	<10	<10	18	-11	-10	-5	0	-5	-3	-21	-34	-63	-86	-174	----	210	29	<10	<10	<10	22
12	86	35	19	<10	<10	11	21	----	-273	221	-234	-43	-69	-69	-60	-54	-126	-297	704	125	123	<10	37	<10
13	<10	<10	99	13	107	152	----	-54	-4	-2	-9	-8	-17	-8	-228	-272	-96	----	101	150	33	47	<10	39
14	137	21	<10	<10	31	81	-120	-15	0	0	-10	-12	-19	-108	-28	-31	-76	1691	144	42	37	24	37	<10
15	<10	23	20	12	<10	<10	16	-20	-9	0	-4	-10	-26	-63	-88	-97	-213	2038	93	39	<10	<10	<10	<10
16	<10	<10	<10	<10	<10	27	-26	-40	0	0	-53	-156	-231	-283	-302	-346	-675	1045	134	46	<10	11	26	29
17	<10	18	<10	<10	<10	<10	13	-16	-4	-104	-451	-473	-444	----	-961	----	----	----	1070	119	15	<10	33	<10
18	21	<10	14	21	18	20	35	-88	-24	-52	-82	-157	-206	-225	-358	-621	-702	2214	197	26	26	20	1078	80
19	54	71	149	231	21	29	80	-39	-32	-42	-35	-50	-45	-19	-34	-60	-42	-470	51	106	48	54	20	47
20	32	11	49	<10	<10	<10	-367	-19	0	-3	-62	-138	-140	-171	-268	-497	-902	2491	334	157	22	11	<10	49
21	36	<10	<10	<10	<10	<10	81	-33	-22	-188	-550	-529	-502	-465	-381	-512	----	1647	206	13	<10	<10	35	<10
22	18	<10	16	55	<10	<10	<10	39	-5	-142	-419	-314	-288	-279	-383	-499	----	832	99	<10	<10	<10	27	<10
23	36	<10	<10	<10	<10	51	<10	0	0	-6	0	-8	-66	-124	-257	-397	----	690	131	<10	<10	23	<10	<10
24	<10	<10	<10	<10	<10	44	-7	-27	-7	-5	-32	-248	-206	-253	-274	-340	----	474	112	26	<10	<10	<10	15
25	<10	<10	<10	<10	<10	<10	42	-19	-16	-519	-534	-356	-379	-348	-325	-416	----	471	93	<10	<10	18	<10	<10
26	<10	<10	<10	<10	<10	<10	-41	0	-5	-30	-310	-218	-175	-214	-333	-654	----	694	189	392	195	328	367	75
27	64	<10	41	45	270	138	460	-707	-113	-24	0	0	-7	-3	-13	-18	-79	<10	<10	<10	<10	<10	<10	<10
28	20	48	<10	12	<10	54	-48	-15	-9	-8	-5	-277	-220	-237	-258	-396	----	749	86	<10	<10	<10	<10	46
29	13	<10	<10	<10	<10	<10	<10	-4	0	-6	-12	-39	-59	-104	-121	-177	-472	255	69	<10	31	<10	12	<10
30	32	<10	<10	<10	26	28	-59	0	-21	-6	-4	-60	-50	-77	-188	-229	-732	413	24	<10	<10	13	39	24
31	<10	<10	<10	<10	<10	<10	-47	-4	-5	-5	-6	-156	-301	-465	-554	-663	----	629	124	<10	<10	<10	<10	<10

PERCENT VALID HOURS FOR AUG, 1994 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR AUG, 1994 XXXX(DD,HH) = ++++(7,17) 4199(1,17) 2491(20,17) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 SEPT, 1994

MONIN-OBUKHOV LENGTH 1 TIMES 10 MONIN1

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<10	<10	<10	<10	<10	<10	-55	-13	-13	-26	-100	-362	-281	-355	-404	-639	----	714	165	104	23	63	<10	<10
2	<10	<10	<10	<10	13	31	-17	0	-1	-376	-590	-457	-379	-561	-854	----	----	938	212	55	23	<10	10	12
3	<10	15	<10	<10	<10	<10	-38	-9	-11	-7	-2	-27	-113	-130	-232	-277	-729	402	47	<10	<10	<10	<10	77
4	18	<10	<10	<10	41	47	-12	-3	-10	0	-2	-38	-45	-45	-36	-100	-256	258	31	27	<10	<10	24	<10
5	16	<10	<10	32	<10	<10	-21	-7	-1	-10	-4	-28	-110	-77	-131	-203	-630	368	36	<10	23	<10	<10	<10
6	<10	<10	<10	<10	<10	<10	-4	-12	0	-10	-30	-105	-101	-118	-143	-224	-703	283	24	<10	38	<10	12	<10
7	19	19	<10	<10	<10	<10	-58	20	-2	0	-7	-231	-216	-183	-273	-491	++++	302	129	56	12	<10	<10	<10
8	<10	<10	<10	<10	<10	16	-21	-2	-4	-9	-227	-413	-373	-478	-739	----	----	514	270	58	17	<10	22	28
9	<10	<10	<10	<10	15	<10	-93	0	-9	-14	-96	-251	-266	-313	-288	----	425	355	376	409	302	264	214	347
10	310	238	277	218	232	167	475	2146	----	----	----	-950	-755	----	----	----	++++	1149	269	16	11	100	151	194
11	74	127	50	42	<10	<10	<10	879	----	-743	-511	-578	-467	-564	-635	-759	----	554	113	75	26	<10	61	95
12	203	457	190	118	38	46	112	947	-488	-600	----	-857	-441	-471	-528	-657	----	1283	686	76	<10	27	138	370
13	293	<10	22	<10	<10	<10	<10	-5	-20	-44	-74	-86	-161	-118	-179	-242	-962	695	23	<10	26	<10	21	<10
14	13	19	38	26	<10	<10	-385	-4	-4	-3	-5	-6	-10	-9	-19	-7	-58	32	33	<10	<10	<10	18	<10
15	<10	<10	<10	<10	<10	65	-17	-16	-2	-3	-7	-10	-8	-5	-9	-38	-415	<10	<10	<10	<10	<10	<10	<10
16	<10	<10	<10	<10	<10	<10	<10	27	-2	-1	-6	-4	-11	-12	-40	-49	<10	<10	34	<10	<10	<10	17	<10
17	<10	<10	<10	<10	<10	24	<10	-11	-16	-1	-1	-1	-5	-56	-36	-297	----	139	38	38	<10	<10	13	48
18	<10	<10	<10	27	<10	<10	49	-24	-1	-16	-5	-2	-10	-34	-20	-44	464	<10	12	<10	<10	<10	56	<10
19	<10	<10	55	27	<10	<10	42	-30	910	****	****	****	****	-139	-240	-407	----	871	406	284	326	230	30	<10
20	19	75	51	22	<10	<10	****	****	****	****	****	****	****	-6	-4	-6	-267	----	961	22	21	126	<10	<10	71
21	51	<10	70	<10	<10	<10	134	-31	-3	0	-2	-9	-17	-12	-5	-10	-40	<10	48	40	<10	<10	19	<10
22	<10	<10	<10	<10	17	<10	<10	-2	0	-1	-10	-2	-9	-21	-11	-42	521	<10	<10	<10	<10	<10	<10	<10
23	33	<10	14	24	22	134	-457	-3	0	0	-1	-3	-13	-16	-14	-17	61	<10	<10	<10	<10	<10	23	<10
24	<10	<10	21	<10	<10	<10	22	-5	0	-2	-2	-6	-27	-81	-151	-571	----	113	<10	<10	34	<10	<10	<10
25	<10	<10	53	39	23	24	<10	-9	-3	0	-1	-16	-28	-27	-87	-129	-572	169	29	<10	<10	<10	<10	<10
26	<10	14	<10	<10	<10	<10	-39	-12	-13	-6	-4	-1	-2	-3	-16	-51	----	195	52	<10	<10	<10	<10	49
27	22	27	<10	<10	18	14	118	-4	-6	-10	-9	-16	-71	-50	-119	-607	----	343	24	<10	<10	15	<10	<10
28	<10	<10	<10	17	<10	<10	-409	-22	-2	0	-13	-109	-277	-410	-800	----	1451	434	296	209	184	102	31	141
29	135	12	409	158	73	55	----	----	-93	-157	-567	-831	445	100	959	850	510	138	202	10	28	<10	61	57
30	<10	17	<10	56	45	<10	<10	-6	-16	-13	-6	-14	-11	-11	-7	-14	98	<10	<10	<10	<10	<10	48	<10

PERCENT VALID HOURS FOR SEPT, 1994 710*100/ 720= 98.6%

THREE HIGHEST VALUES FOR SEPT, 1994 XXXX(DD,HH) = ++++(10,16) ++++(7,16) 2146(10, 7) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 — OCT, 1994

MONIN-OBUKHOV LENGTH 1 TIMES 10 — MONIN1

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<10	<10	54	52	<10	<10	<10	-25	-6	-11	-3	-2	-4	-12	-10	-15	-87	18	24	22	<10	<10	24	<10
2	101	<10	<10	<10	<10	22	-90	-6	-2	-3	0	-49	-139	-182	-252	-441	1171	134	30	<10	32	<10	<10	<10
3	29	43	<10	<10	<10	<10	<10	288	1367	----	-797	-58	-6	-2	-29	-81	22	12	<10	<10	27	<10	27	512
4	376	259	<10	15	33	45	<10	2092	----	-934	-627	-453	-727	----	----	----	4974	552	93	212	396	824	161	646
5	469	73	134	341	414	955	3963	----	-540	-513	-321	-207	-249	-188	-156	-113	----	131	159	56	<10	<10	<10	<10
6	12	19	78	47	71	<10	-32	-9	-6	0	-4	-3	-7	-5	-15	-24	-261	43	75	40	<10	22	<10	19
7	44	57	15	<10	<10	<10	<10	----	-7	-4	-54	-54	-78	-83	-107	-537	693	97	50	41	27	<10	<10	<10
8	<10	93	31	<10	<10	<10	<10	319	-160	-42	-34	-10	-4	-7	-4	-3	104	31	21	<10	14	16	<10	<10
9	15	<10	<10	29	<10	138	585	-13	-13	0	-2	-2	-4	-6	-21	-28	27	<10	15	55	<10	<10	<10	13
10	11	<10	<10	<10	<10	<10	83	-6	-4	-9	-2	-22	-233	-215	-364	-878	489	56	<10	<10	<10	<10	<10	<10
11	<10	<10	10	41	<10	22	36	-3	-16	-7	-14	-70	-158	-139	-136	-415	219	36	<10	<10	<10	15	<10	<10
12	<10	29	44	20	30	<10	-101	-1	0	-10	-23	-44	-275	-622	-922	----	642	253	110	81	31	224	451	273
13	454	157	<10	60	70	<10	<10	-37	-6	-7	-3	-4	-3	-15	-13	-19	13	<10	<10	46	37	264	1328	108
14	158	55	64	30	<10	<10	21	-9	-2	-3	-6	-36	-131	-156	-260	-770	4135	1289	747	405	605	904	----	8174
15	596	265	221	112	75	139	336	-565	-2	-54	-101	-157	-163	-127	-340	-744	----	111	<10	23	<10	33	70	47
16	<10	<10	<10	28	113	116	-84	-2	-8	-5	-7	-30	-53	-35	-62	-86	-847	192	58	86	<10	<10	13	57
17	77	<10	39	40	-186	-119	-17	-12	-1	0	-5	-5	-18	-6	-6	-18	86	49	60	<10	67	<10	<10	14
18	19	17	22	37	19	<10	-23	0	-7	-22	-4	-11	-44	-56	-98	-238	287	17	<10	<10	12	<10	26	<10
19	<10	<10	13	<10	12	<10	-105	-19	0	-7	0	-2	-4	-12	-15	-14	<10	19	<10	31	11	45	29	<10
20	<10	<10	<10	<10	<10	<10	130	-3	-4	-5	-1	-10	-7	-50	-38	-99	77	51	39	<10	<10	<10	<10	32
21	<10	14	72	22	<10	<10	82	-25	-37	-32	0	-1	-1	-8	-90	-912	122	26	34	13	<10	<10	<10	26
22	<10	17	<10	14	51	33	<10	-3	-14	-2	-4	-3	-7	-24	-222	920	74	18	11	<10	<10	<10	<10	<10
23	16	30	<10	<10	42	<10	<10	-8	-1	-2	-3	269	-4	-12	-57	----	97	12	<10	<10	<10	<10	<10	<10
24	44	25	12	21	<10	44	27	1035	-14	-9	-4	-9	-6	-6	-10	-74	13	46	<10	<10	<10	<10	<10	<10
25	<10	<10	<10	<10	<10	<10	1356	-136	-38	-3	-1	-1	-2	-6	-16	67	34	52	<10	<10	<10	<10	<10	<10
26	<10	<10	<10	<10	<10	10	-121	0	-155	-17	-3	-7	-2	-3	-6	-287	142	41	26	<10	<10	<10	18	<10
27	17	<10	<10	86	<10	<10	88	-10	-7	-4	<10	-8	-5	-293	-225	++++	56	<10	<10	<10	<10	18	<10	<10
28	<10	11	40	<10	<10	65	134	-6	-68	-180	-1	-7	-5	-6	-22	1110	96	56	<10	<10	<10	<10	<10	<10
29	37	<10	<10	<10	<10	<10	14	<10	-13	-5	-2	-2	-3	-11	-18	-85	12	25	<10	23	<10	<10	27	12
30	13	13	21	42	16	14	18	23	1428	-147	-63	-175	-117	-177	-184	547	73	51	<10	<10	<10	<10	<10	<10
31	<10	<10	13	24	<10	41	-996	-15	-19	-2	0	-3	-1	-5	0	<10	<10	<10	20	<10	<10	<10	<10	<10

PERCENT VALID HOURS FOR OCT, 1994 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR OCT, 1994 XXXX(DD,HH) = ++++(27,15) 8174(14,23) 4974(4,16) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 NOV, 1994

MONIN-OBUKHOV LENGTH 1 TIMES 10 MONIN1

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<10	<10	<10	<10	63	<10	2140	-6	-20	-12	-14	-15	-264	----	----	783	243	139	282	411	337	305	282	211
2	233	395	122	145	194	313	400	395	400	714	-341	-97	-67	-112	-575	----	----	----	++++	205	2568	5462	----	-560
3	-844	-368	-333	797	268	179	103	413	-155	-264	-258	-193	-166	-400	-386	-546	584	22	24	24	<10	59	<10	<10
4	<10	78	91	37	<10	<10	20	----	-6	-19	-3	-3	-7	-12	-40	-440	96	31	<10	<10	15	36	14	81
5	56	50	<10	----	-81	-203	110	-7	-6	-4	-5	-6	-5	-3	-21	-67	10	26	29	57	12	46	<10	<10
6	<10	<10	<10	<10	<10	<10	<10	-101	-20	-4	-4	-6	-3	-14	-26	75	<10	<10	46	20	<10	<10	<10	<10
7	26	10	18	25	66	44	184	-9	-9	-5	-6	-4	-1	-20	-129	<10	<10	<10	<10	<10	<10	<10	<10	43
8	1019	-103	-111	231	30	<10	<10	-14	-32	-9	-9	-12	-9	-21	-173	-961	184	39	36	15	<10	<10	17	<10
9	<10	16	47	<10	<10	12	393	-7	-4	0	-3	-28	-57	-42	-25	-329	105	<10	68	22	21	<10	<10	<10
10	<10	<10	15	<10	35	<10	<10	<10	-571	-31	-147	----	----	++++	356	1107	155	611	310	275	117	43	<10	<10
11	<10	15	35	<10	<10	<10	12	-73	-7	-6	-5	-4	-1	-1	-52	-219	220	173	267	40	49	<10	40	101
12	22	50	<10	10	<10	16	<10	-14	-82	-12	-208	-229	-197	-200	-355	-967	193	27	19	<10	<10	433	95	113
13	40	37	25	<10	<10	<10	<10	<10	-759	-62	-290	-74	-57	-94	-136	----	287	133	46	<10	<10	<10	<10	18
14	<10	<10	24	20	48	60	49	46	-138	-8	-18	-7	-14	-13	-23	118	52	39	56	<10	<10	<10	<10	<10
15	<10	<10	<10	<10	73	30	-150	-24	-8	-7	-1	-12	-20	-13	-28	30	15	18	25	73	54	50	25	<10
16	29	11	77	<10	42	94	68	230	937	-71	-13	-38	-151	-289	-340	----	1411	1985	143	460	368	188	<10	<10
17	<10	<10	<10	23	92	102	<10	-45	-3	-159	-57	-236	-655	-157	-752	----	55	23	361	493	382	----	++++	419
18	344	877	901	911	1689	309	32	121	96	190	142	77	139	107	66	63	49	<10	34	<10	37	114	167	51
19	35	14	61	25	<10	<10	<10	15	<10	<10	23	34	<10	<10	<10	<10	<10	<10	18	54	32	<10	17	<10
20	13	<10	<10	50	13	40	13	125	-307	<10	<10	<10	<10	<10	<10	<10	<10	12	<10	24	<10	<10	50	70
21	241	----	1239	388	68	-955	----	-58	2109	<10	-179	-115	-25	-12	-5	23	<10	<10	<10	51	50	42	13	<10
22	<10	<10	<10	<10	<10	24	34	53	101	404	868	3823	----	----	400	220	74	51	<10	<10	<10	89	63	37
23	<10	<10	<10	<10	18	21	<10	-131	-52	<10	-2	0	<10	-4	-8	<10	<10	<10	23	<10	<10	<10	13	<10
24	10	41	41	70	66	<10	29	-57	-439	98	-3	-2	-6	-142	-9	<10	<10	16	12	<10	<10	<10	<10	<10
25	<10	32	102	<10	14	<10	39	860	-314	-8	536	4093	++++	----	6174	2696	1348	1377	1354	1099	994	831	1012	664
26	669	386	293	850	1048	645	153	450	3145	----	-549	96	----	5373	859	344	142	185	64	20	10	34	<10	29
27	<10	<10	<10	<10	53	<10	24	59	55	-40	-25	-5	-57	-141	-567	495	30	13	<10	<10	<10	<10	<10	46
28	<10	46	25	22	77	70	35	----	45	-1	-78	-9	491	-759	275	<10	36	12	<10	<10	17	<10	<10	<10
29	<10	<10	18	<10	17	12	<10	<10	38	++++	-23	-2	<10	-1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
30	<10	<10	<10	<10	<10	<10	<10	26	-6	-25	----	<10	<10	<10	-10	<10	<10	<10	16	<10	23	10	<10	13

PERCENT VALID HOURS FOR NOV, 1994 720*100/ 720=100.0%

THREE HIGHEST VALUES FOR NOV, 1994 XXXX(DD,HH) = ++++(25,12) ++++(2,18) ++++(17,22) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 — DEC, 1994

MONIN-OBUKHOV LENGTH 1 TIMES 10 — MONIN1

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<10	22	<10	<10	<10	<10	26	128	<10	<10	-1	-16	<10	-6	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
2	11	22	35	<10	16	<10	65	-249	21	-12	-1	-238	-225	<10	<10	12	<10	15	31	11	<10	<10	<10	<10
3	<10	<10	<10	38	25	80	<10	<10	-49	-20	-16	-2	-46	-143	20	15	<10	19	18	22	<10	<10	19	<10
4	<10	<10	<10	<10	<10	18	-705	-378	-31	-39	-33	-972	-125	17	<10	<10	<10	<10	<10	24	69	<10	<10	25
5	<10	26	29	<10	<10	22	29	86	-72	-17	-3	-7	-10	-79	-61	182	<10	<10	49	94	48	33	<10	59
6	24	22	27	<10	28	191	65	-161	-10	-14	-3	-3	-109	-36	-131	456	131	29	<10	11	<10	12	<10	<10
7	<10	<10	16	36	<10	26	36	-140	-44	-138	-23	-11	-8	-27	-219	127	57	11	<10	<10	<10	<10	<10	<10
8	<10	<10	<10	<10	<10	19	16	49	365	++++	-831	-555	-492	-398	----	136	24	****	****	****	****	****	****	****
9	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
11	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
12	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
15	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
18	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	****	****	****	****	****	****	****	****	****	****	****	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	27	<10	<10	<10	<10	<10	<10
21	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
22	<10	<10	<10	15	<10	<10	<10	<10	<10	<10	14	<10	<10	12	15	<10	<10	<10	<10	<10	12	<10	<10	<10
23	<10	14	87	49	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	41	61	<10	<10	<10
24	<10	<10	15	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	15	228	<10	<10	<10
25	<10	<10	<10	138	50	55	31	<10	<10	<10	95	66	<10	125	64	22	60	54	89	167	89	<10	141	33
26	<10	30	36	22	41	<10	<10	122	69	112	168	129	127	49	14	29	36	26	<10	<10	79	<10	<10	<10
27	28	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
28	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	17	49	<10	<10	<10	<10	<10	207	195	<10	<10	<10
29	16	42	79	66	<10	<10	<10	<10	<10	<10	<10	<10	166	388	118	36	<10	<10	<10	<10	<10	29	11	31
30	32	35	44	54	80	15	<10	<10	<10	62	177	66	<10	<10	<10	<10	<10	11	11	<10	<10	<10	16	<10
31	<10	<10	57	<10	47	<10	15	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

PERCENT VALID HOURS FOR DEC, 1994 482*100/ 744= 64.8%

THREE HIGHEST VALUES FOR DEC, 1994 XXXX(DD,HH) = ++++(8, 9) 456(6,15) 388(29,13) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 JAN, 1994

MONIN-OBUKHOV LENGTH 2 TIMES 10 MONIN2

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	95	<20	<20	<20	<20	<20	85	57	0	-2	-2	-2	-7	----	-61	<20	<20	<20	<20	<20	<20	<20	<20	<20
2	<20	<20	<20	<20	98	----	138	-51	-6	-33	-14	-21	<20	-1	-64	<20	<20	<20	<20	<20	<20	<20	<20	<20
3	<20	<20	<20	<20	<20	<20	22	-2	-2	<20	-8	-3	-2	-40	<20	30	<20	<20	<20	<20	<20	<20	<20	<20
4	71	<20	<20	<20	77	176	56	124	++++	-19	-8	-12	0	0	<20	<20	<20	<20	<20	<20	<20	<20	57	<20
5	56	107	<20	<20	<20	<20	<20	39	++++	-84	-62	-1	-16	-4	1460	739	923	1366	1017	138	153	51	<20	<20
6	<20	<20	<20	<20	<20	<20	28	63	-37	-52	-41	-859	-965	-989	----	1825	107	77	38	<20	<20	<20	<20	<20
7	<20	22	<20	47	75	-167	<20	-16	-6	0	-24	-40	0	-6	++++	38	<20	<20	34	<20	<20	<20	<20	<20
8	<20	<20	<20	<20	48	-107	41	110	-10	0	-12	-57	-457	0	-69	161	48	47	<20	<20	<20	<20	<20	<20
9	22	100	<20	-13	151	-72	56	-48	-14	-4	-7	-29	-21	-1	0	-149	<20	<20	<20	41	<20	<20	101	107
10	<20	<20	<20	343	<20	79	<20	95	356	1633	-943	-337	-211	-216	-687	139	29	<20	32	<20	<20	<20	<20	<20
11	<20	<20	<20	<20	33	-109	<20	-140	-7	-1	-20	0	-11	-78	0	71	48	159	151	82	110	67	31	69
12	148	<20	<20	<20	<20	<20	<20	<20	83	125	-402	-244	-178	-363	----	342	92	60	76	114	136	<20	36	86
13	<20	<20	<20	<20	<20	<20	<20	-29	-18	-8	-33	0	-2	-28	318	321	135	183	227	<20	69	33	<20	<20
14	<20	<20	<20	28	<20	<20	46	33	<20	-145	0	0	-1	-2	-4	<20	<20	<20	<20	<20	<20	36	<20	<20
15	47	49	<20	<20	<20	<20	<20	33	-1	-205	-34	0	-35	<20	195	<20	57	<20	<20	<20	<20	<20	<20	<20
16	<20	<20	<20	<20	<20	<20	42	-50	-12	-9	-1	0	-775	----	2333	515	185	49	<20	<20	<20	<20	<20	<20
17	<20	<20	<20	<20	<20	88	40	<20	-9	-113	-23	-10	-8	-2	-1	<20	<20	<20	<20	<20	<20	<20	20	<20
18	<20	<20	<20	<20	<20	<20	<20	-182	0	-1	-32	<20	-11	-16	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
19	<20	<20	<20	<20	<20	<20	<20	-18	-9	3133	35	-5	-11	-1	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
20	<20	<20	<20	<20	<20	<20	<20	-84	0	-18	-100	<20	<20	-46	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
21	<20	<20	<20	<20	<20	<20	<20	-109	-2	-3	0	-54	0	62	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
22	<20	<20	35	<20	<20	<20	<20	<20	-13	-3	-54	-8	98	<20	-30	<20	<20	<20	<20	<20	<20	<20	<20	<20
23	<20	<20	<20	-110	<20	<20	-1	-12	-25	-33	-45	-40	-88	313	182	492	209	176	66	27	<20	<20	<20	<20
24	<20	<20	<20	<20	<20	<20	<20	82	-1	-103	-4	-11	-386	-207	843	127	<20	76	<20	<20	<20	<20	<20	204
25	183	427	397	2649	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
27	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
28	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
29	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
31	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****

PERCENT VALID HOURS FOR JAN, 1994 580*100/ 744= 78.0%

THREE HIGHEST VALUES FOR JAN, 1994 XXXX(DD,HH) = ++++(4, 8) ++++(7,14) ++++(5, 8) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 FEB, 1994

MONIN2

MONIN-OBUKHOV LENGTH 2 TIMES 10

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	****	****	****	****	****	****	****	****	****	****	****	-32	-28	-53	-83	<20	<20	<20	<20	<20	<20	<20	<20	<20
2	99	<20	<20	<20	<20	<20	-39	-7	-13	0	-79	-6	-48	0	-19	-67	56	<20	53	30	<20	<20	<20	44
3	<20	43	<20	<20	<20	<20	<20	-43	-7	0	-14	-21	-82	-105	-122	-576	62	48	56	<20	<20	<20	65	767
4	423	3120	----	317	-301	-173	-16	-1	-21	-23	-4	0	0	-13	-11	-10	-17	----	-299	201	75	1649	-37	143
5	44	61	----	<20	<20	3701	-65	0	-10	-15	-2	-1	-1	-19	-7	-12	-619	21	<20	41	102	38	<20	84
6	<20	<20	89	27	126	<20	<20	-66	-35	-2	-3	0	-11	-14	-35	-70	-118	395	<20	<20	<20	132	217	<20
7	129	<20	197	<20	113	----	95	-62	-14	-8	-8	-11	-38	-26	-242	-555	155	****	****	****	****	****	****	****
8	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
9	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
11	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
12	****	****	****	****	****	****	****	****	****	****	****	****	-7	-3	-29	<20	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
15	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
18	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	<20	<20	<20	<20	<20	<20
21	<20	<20	<20	<20	<20	<20	<20	<20	-3	-7	-30	-4	-29	-56	-133	-193	780	219	22	<20	<20	<20	<20	<20
22	<20	<20	<20	<20	<20	36	191	107	375	-917	-186	-109	-97	-141	-131	-288	7329	190	173	119	53	<20	<20	****
23	****	****	****	****	****	****	****	****	****	****	<20	-4	0	-1	-2	216	1685	<20	<20	55	<20	<20	<20	<20
24	<20	<20	-66	-139	-374	643	-195	-68	-46	-85	<20	-7	-103	-119	-118	-479	268	44	<20	<20	<20	<20	<20	<20
25	<20	<20	<20	<20	<20	<20	58	-12	-7	-11	-5	<20	-10	0	-16	-562	357	35	<20	<20	<20	<20	<20	<20
26	<20	<20	<20	<20	<20	<20	39	-25	-3	-4	-30	-1	-54	-56	----	3694	669	311	105	<20	<20	<20	<20	<20
27	<20	<20	<20	<20	<20	<20	<20	131	0	-55	-43	-110	-291	-949	111	184	210	215	110	116	<20	121	322	196
28	<20	140	23	31	80	<20	<20	<20	899	-664	-279	-226	-69	-115	-187	-642	603	179	113	270	195	26	<20	55

PERCENT VALID HOURS FOR FEB, 1994 341*100/ 672= 50.7%

THREE HIGHEST VALUES FOR FEB, 1994 XXXX(DD,HH) = 7329(22,16) 3701(5, 5) 3694(26,15) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 MAR, 1994

MONIN-OBUKHOV LENGTH 2 TIMES 10 MONIN2

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	28	67	<20	<20	<20	<20	<20	<20	-22	0	0	-329	-290	-121	-100	-232	1444	188	<20	<20	<20	<20	<20	<20
2	<20	<20	<20	<20	<20	37	<20	0	-1	-15	0	0	-4	0	-4	-29	-24	<20	<20	<20	<20	<20	<20	<20
3	<20	<20	<20	<20	<20	<20	<20	-44	0	0	<20	0	0	-3	-45	-176	314	81	58	<20	<20	<20	<20	<20
4	<20	<20	<20	<20	<20	<20	<20	0	-24	0	-16	0	-17	-22	-26	-74	378	106	47	<20	<20	<20	<20	<20
5	<20	<20	<20	<20	<20	<20	184	-144	0	-58	-30	-6	-15	-88	----	----	851	93	20	<20	<20	<20	163	158
6	<20	<20	37	21	<20	<20	22	<20	-1	-68	0	-71	-243	-856	-904	----	162	<20	<20	<20	****	869	726	103
7	<20	<20	31	<20	75	<20	<20	<20	108	-21	-6	-4	-48	-95	-182	-177	61	<20	<20	<20	<20	<20	<20	<20
8	30	83	29	<20	<20	<20	<20	32	0	-18	-4	-3	-21	-3	-89	-76	-12	<20	<20	<20	<20	<20	<20	<20
9	<20	36	<20	<20	<20	<20	<20	-9	-18	-9	0	-7	0	-4	-5	-20	-253	47	67	<20	20	22	<20	<20
10	<20	<20	<20	-87	<20	<20	<20	-94	-126	-9	0	-22	-231	-446	-522	-900	1217	506	123	36	35	149	<20	65
11	<20	<20	<20	67	132	431	41	160	3519	-333	-362	-520	-510	-727	-706	----	----	4879	1312	1140	654	248	281	986
12	614	1145	480	226	219	294	76	357	-485	-358	-285	-415	-382	-254	-729	-878	----	599	73	65	48	177	85	36
13	115	<20	<20	80	225	<20	264	589	-341	-193	-146	-3	-11	-12	-94	-157	445	<20	<20	<20	23	<20	<20	77
14	<20	<20	<20	<20	<20	<20	<20	-31	0	0	-7	-3	-4	-12	-4	-5	-29	<20	<20	<20	<20	<20	<20	<20
15	<20	<20	<20	<20	<20	<20	<20	0	-13	-17	-14	-22	-25	-155	-165	-981	2397	264	<20	<20	<20	<20	<20	<20
16	<20	<20	<20	<20	<20	<20	<20	151	3122	----	-723	-514	-365	-371	-430	-545	----	366	121	50	110	112	<20	<20
17	<20	<20	<20	<20	<20	<20	39	21	-81	-53	-12	-24	-9	-10	-74	-217	-684	166	<20	<20	107	<20	<20	<20
18	<20	<20	<20	-25	-129	156	361	2006	----	-656	-565	-502	-434	-534	-768	----	----	1413	429	180	525	881	400	164
19	98	84	362	477	439	120	749	2156	----	----	-796	-575	-400	-552	-353	-371	----	----	++++	----	1630	----	-551	-23
20	40	94	<20	<20	<20	<20	<20	-70	-48	-24	-11	-10	-10	-3	-16	-34	-27	672	203	154	<20	<20	<20	<20
21	<20	<20	954	78	200	----	-20	0	-8	-10	-21	-98	-147	-242	-284	-462	----	2100	471	117	<20	<20	<20	<20
22	39	91	<20	<20	23	<20	28	1130	----	----	----	----	----	----	-885	----	----	588	146	49	115	28	47	<20
23	<20	<20	<20	<20	<20	<20	<20	-34	-35	-5	-5	0	0	-4	-3	-17	-56	561	93	<20	63	<20	61	<20
24	41	76	48	<20	<20	111	174	-332	0	-21	-66	-17	-21	-49	-173	-224	-700	205	<20	22	<20	41	<20	<20
25	<20	<20	<20	31	481	1538	----	1108	484	<20	140	328	-210	-166	-237	-312	-289	-612	2577	720	44	125	<20	<20
26	<20	<20	<20	31	54	450	205	-28	-18	-5	-168	-174	-212	-143	-225	-593	----	161	24	<20	<20	<20	<20	<20
27	<20	<20	<20	<20	<20	86	<20	<20	<20	-14	-142	-123	-159	-389	-394	-814	4844	275	<20	<20	<20	<20	<20	<20
28	<20	29	<20	<20	<20	<20	<20	-25	<20	0	-19	0	-23	-108	-212	-729	596	117	<20	<20	<20	<20	<20	<20
29	<20	<20	<20	<20	<20	<20	198	0	<20	<20	<20	0	-5	-4	-31	-22	-338	57	39	<20	<20	<20	<20	<20
30	<20	<20	<20	<20	<20	<20	<20	<20	82	-9	-15	-15	-21	-90	-39	-12	-97	165	81	<20	113	93	51	<20
31	<20	<20	<20	<20	<20	<20	-9	-6	-2	-10	-15	-207	-343	-343	-370	-496	----	413	124	<20	30	55	<20	<20

PERCENT VALID HOURS FOR MAR, 1994 743*100/ 744= 99.9%

THREE HIGHEST VALUES FOR MAR, 1994 XXXX(DD,HH) = ++++(19,18) 4879(11,17) 4844(27,16) .(FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 APR, 1994

MONIN2

MONIN-OBUKHOV LENGTH 2 TIMES 10

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<20	<20	<20	<20	<20	<20	-30	-4	-7	-235	-209	-86	-41	-27	-26	-63	-118	45	29	45	<20	<20	<20	<20
2	<20	<20	<20	<20	<20	<20	<20	-7	-15	-1	-5	-9	-2	-2	-11	-17	-124	<20	<20	<20	<20	28	76	<20
3	<20	<20	<20	<20	72	<20	<20	260	----	----	-743	-437	-328	-328	-679	-719	-273	634	386	253	269	1058	519	<20
4	<20	29	<20	<20	<20	<20	71	-28	-28	-17	-31	-15	-33	----	-150	-757	----	1868	366	212	106	<20	34	20
5	<20	<20	<20	<20	<20	<20	<20	-8	0	****	****	****	****	****	****	-63	-195	303	78	54	<20	<20	<20	<20
6	<20	<20	<20	<20	<20	<20	-16	-47	-74	-7	0	-2	-19	-8	-106	-270	-507	562	<20	<20	196	229	421	99
7	<20	<20	<20	<20	<20	<20	925	0	-3	-15	-21	-16	-35	-37	-72	-146	-245	438	58	<20	<20	<20	<20	<20
8	34	<20	<20	<20	41	<20	156	-212	-95	-62	-38	-20	-113	-279	-490	-924	-755	----	980	686	794	1839	840	772
9	164	320	354	233	54	169	1158	----	-219	<20	-3	-26	-258	-430	-183	-305	6714	1033	115	60	165	<20	<20	<20
10	<20	<20	<20	<20	<20	<20	<20	-5	-56	-212	-157	-256	-183	-331	-334	-585	----	4426	955	456	529	209	176	227
11	144	155	197	94	35	<20	<20	-28	-22	-9	-6	-4	-12	-9	-11	-21	-18	-357	33	<20	80	<20	<20	<20
12	<20	<20	<20	<20	<20	<20	<20	0	-1	0	0	-3	-13	-34	-53	-53	-255	634	23	<20	<20	<20	<20	<20
13	<20	<20	<20	<20	<20	<20	-3	-11	0	-25	-7	-28	-59	-64	-94	-179	-574	735	114	<20	<20	<20	<20	<20
14	<20	<20	<20	24	31	45	-210	-6	-14	0	-3	-9	-12	-47	-59	-79	-114	<20	20	<20	<20	92	50	33
15	122	195	227	167	124	236	<20	-8	-112	-57	-92	-23	-10	-15	-2	-15	-17	55	<20	<20	75	38	<20	<20
16	<20	<20	<20	<20	<20	<20	-1	-1	0	-12	-3	-12	-46	-35	-93	-114	-622	130	<20	<20	79	<20	<20	<20
17	<20	<20	<20	<20	-76	105	0	0	0	-1	-3	-10	-59	-77	-320	-245	-745	----	697	54	<20	<20	<20	<20
18	120	<20	<20	<20	<20	<20	-4	-1	-1	-6	-2	-6	-44	-5	-27	-18	-52	-218	168	42	<20	<20	<20	<20
19	<20	<20	<20	-272	<20	<20	-1	0	-1	0	0	0	-20	-26	-50	-42	-50	-247	183	90	<20	<20	<20	33
20	-335	<20	<20	<20	<20	<20	-3	0	0	0	-2	-9	-60	-104	-145	-148	-204	-431	316	58	104	37	<20	<20
21	<20	77	<20	<20	<20	23	0	-2	0	-5	-62	-323	-347	-280	-226	-361	-357	-813	----	2320	632	47	<20	35
22	164	596	408	<20	<20	331	-58	-16	-5	-18	-29	-39	-128	-272	-292	-287	-235	-414	----	7142	<20	223	<20	----
23	----	----	----	----	----	1637	-448	-446	-518	-482	-563	-568	-573	-582	-577	-755	----	----	----	----	----	----	----	----
24	----	----	----	----	567	----	-845	-340	-249	-218	-172	-97	-61	-65	-89	-102	-209	-191	-273	-136	-173	-47	1025	-243
25	126	107	391	1845	++++	-248	-124	-112	-405	-363	-256	-236	-407	-475	-177	-179	-567	-886	-736	-459	-532	++++	261	23
26	<20	50	-187	68	1086	-41	-1	-5	-1	-2	-5	-31	-102	-104	-155	-123	-140	-188	-591	-339	-34	-94	-208	-261
27	-124	-17	-34	-3	-38	-68	-64	-30	-21	-102	-64	-202	-144	-132	-71	-115	-198	-33	-31	-51	-87	-172	-56	-29
28	-8	-73	-71	-108	-58	-20	-9	0	0	-5	-38	-12	-33	-159	-190	-33	-10	-65	-187	1186	605	660	302	<20
29	<20	32	61	247	----	99	-8	-1	-1	-1	-15	-42	-58	-11	-12	-16	-21	-13	62	88	30	130	24	85
30	<20	64	<20	-37	----	-261	-21	-2	0	0	-2	-16	-54	-157	-234	-280	-168	-157	-340	632	<20	26	<20	47

PERCENT VALID HOURS FOR APR, 1994 714*100/ 720= 99.2%

THREE HIGHEST VALUES FOR APR, 1994 XXXX(DD,HH) = ++++(25,21) ++++(25, 4) 7142(22,19) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 MAY, 1994

MONIN-OBUKHOV LENGTH 2 TIMES 10 MONIN2

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<20	<20	301	48	192	1075	-57	-4	-5	-1	-7	-8	-5	-15	-11	-9	-20	-32	-81	79	<20	43	<20	<20
2	155	<20	<20	190	82	-10	-18	0	-3	-1	-2	-6	-25	-34	-33	-89	-162	-303	++++	48	74	4248	20	<20
3	<20	27	----	<20	<20	-35	0	-2	-1	-1	-1	-3	-12	-40	-57	-83	-81	-105	344	61	<20	<20	<20	26
4	35	-53	<20	<20	90	-41	0	-8	-1	0	0	-30	-28	-52	-207	-273	-346	-715	-764	1026	185	113	227	447
5	<20	54	331	<20	<20	<20	-19	-23	-3	-52	-167	-135	-188	-241	-231	-179	-347	-399	----	-745	1546	----	-804	87
6	----	923	194	<20	<20	-49	-233	-179	-252	-217	-207	-411	-408	-356	-428	-415	-440	-759	-725	-844	-650	-372	-137	-254
7	3615	742	-65	<20	252	-2	-6	-5	-6	-6	-16	-26	-53	-75	-43	-56	-51	-139	-123	-140	-255	-187	-200	-283
8	-244	-106	-57	-70	-90	-67	-46	-45	-40	-11	-25	-85	-81	-21	-73	-10	-16	-3	-55	168	1218	47	64	<20
9	<20	<20	++++	-16	-16	0	-8	-16	-13	-30	-223	-113	-165	-87	-52	-194	-453	-165	-113	1544	563	243	163	108
10	378	540	49	649	70	-16	0	-8	-10	0	-1	-5	-10	-32	-111	-97	-120	-100	-97	451	-186	286	189	53
11	320	581	38	<20	<20	32	-1	-3	0	0	-4	-4	-21	-13	-13	-436	-55	-127	-98	-258	453	344	<20	<20
12	52	41	48	<20	<20	-87	-1	-4	-2	-4	-5	0	-33	-32	-64	-153	-272	-378	-444	-995	-740	-583	149	----
13	-333	45	262	-58	80	-96	0	0	0	0	-5	-4	-7	-5	-91	-140	-35	-62	-439	<20	96	<20	<20	<20
14	<20	58	<20	108	<20	-161	-2	-1	-1	-1	-10	-21	-111	-121	-235	-241	-425	-853	2138	213	224	1116	3188	1722
15	1662	506	180	92	<20	<20	263	-514	-670	-400	-345	-377	-487	-482	-846	-919	----	----	2180	528	312	515	428	547
16	616	76	87	483	942	1632	----	----	-668	-713	-461	-407	-374	-522	-686	-917	----	----	++++	----	-820	761	105	<20
17	<20	31	<20	<20	<20	<20	-3	0	-4	-16	-199	-303	-329	-289	-200	-406	-599	-861	3185	676	1504	1578	392	50
18	106	27	117	373	341	36	-44	-7	-96	-197	-222	-279	-280	-294	-313	-330	-440	----	4205	607	200	<20	28	<20
19	<20	<20	<20	<20	<20	<20	-62	-5	-8	-12	-19	-4	-17	-40	-45	-52	-85	-97	-451	119	23	<20	<20	<20
20	<20	47	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
21	****	<20	<20	<20	<20	<20	-3	0	-1	0	-31	-31	-41	-42	-22	-73	-317	----	285	39	<20	<20	<20	<20
22	<20	<20	<20	<20	<20	<20	<20	-17	0	-1	-6	-27	-48	-50	-70	-117	-153	----	170	106	32	<20	<20	<20
23	<20	<20	<20	<20	<20	<20	-5	-15	0	0	-6	-13	-31	-40	-46	-44	-179	-991	++++	<20	45	<20	<20	<20
24	<20	<20	<20	<20	<20	134	-244	-71	-4	-19	-4	-110	-90	-81	-28	-22	-9	-371	735	1006	<20	<20	24	<20
25	<20	<20	<20	<20	<20	<20	-85	-8	-17	0	-22	-24	-34	-18	-10	-31	-65	-130	-509	1402	201	<20	62	23
26	<20	53	36	32	<20	<20	-22	-5	-16	-28	-9	-10	-24	-35	-167	-309	-69	-451	----	1161	795	<20	<20	104
27	<20	<20	<20	<20	87	189	-696	-8	-53	-331	-408	-311	-439	-386	-287	-575	-686	----	636	148	59	38	22	128
28	<20	48	<20	<20	<20	<20	-259	-11	-22	-17	-46	-57	-63	-106	-142	-154	-306	----	68	<20	<20	<20	<20	<20
29	<20	<20	<20	<20	<20	<20	-2	0	0	0	-5	-17	-70	-88	-192	-222	-553	2257	142	<20	<20	46	<20	<20
30	<20	<20	<20	<20	<20	142	-3	0	-6	0	-2	-6	-184	-576	-395	-139	----	2080	935	2158	386	<20	173	358
31	1984	271	485	<20	<20	361	-30	-7	-17	-189	-144	-62	-30	-29	-12	-59	-125	-517	120	66	<20	<20	<20	<20

PERCENT VALID HOURS FOR MAY, 1994 721*100/ 744= 96.9%

THREE HIGHEST VALUES FOR MAY, 1994 XXXX(DD,HH) = ++++(16,18) ++++(23,18) ++++(9, 2) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 — JUNE, 1994

MONIN-OBUKHOV LENGTH 2 TIMES 10 — MONIN2

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<20	<20	<20	<20	<20	99	-39	-180	-21	-22	-5	-3	-3	-49	-26	-25	-54	118	<20	23	<20	<20	<20	<20
2	24	<20	<20	<20	<20	<20	-3	-5	-3	0	<20	<20	****	-21	-58	-208	-687	----	502	71	<20	<20	<20	<20
3	<20	<20	<20	<20	<20	197	-581	-78	-4	-117	-348	-226	-332	-524	-605	-577	-608	3536	406	178	<20	<20	<20	<20
4	<20	<20	<20	<20	<20	<20	-258	-5	-44	-90	-54	-37	-45	-101	-152	-164	-488	3128	217	<20	<20	29	<20	<20
5	<20	<20	<20	<20	<20	<20	-2	-9	-4	-4	-25	-202	-438	-464	-535	-582	-889	----	536	158	435	250	464	367
6	163	225	71	<20	62	104	----	-426	-281	-632	-702	-417	-371	-439	-444	-940	----	----	1641	604	366	374	104	111
7	65	<20	<20	<20	43	76	-67	-23	-2	-3	-6	-29	-27	-43	-37	-70	-200	-945	316	88	<20	<20	<20	<20
8	<20	<20	<20	<20	<20	458	3502	-277	-47	-11	-8	-12	-7	-15	-9	-28	-19	-306	174	68	<20	<20	<20	<20
9	<20	<20	<20	<20	<20	<20	-18	-12	-5	0	-1	-4	-3	-4	-16	-47	-63	-577	124	48	<20	<20	<20	<20
10	<20	<20	<20	<20	<20	<20	<20	-4	-14	-4	-1	-7	-30	-39	-31	-102	-133	----	130	<20	<20	<20	<20	<20
11	<20	<20	<20	<20	<20	<20	-160	-13	0	-9	-31	-72	-96	-61	-146	-237	-536	----	455	82	<20	<20	<20	<20
12	<20	<20	<20	<20	<20	<20	-1	0	0	-9	-95	-87	-108	-237	-328	-476	-695	----	461	40	<20	<20	<20	37
13	<20	<20	<20	<20	<20	<20	-49	-12	-21	-96	-322	-309	-279	-430	-596	-851	----	----	689	243	<20	<20	<20	34
14	<20	<20	<20	<20	<20	<20	----	-353	-301	-450	-593	-503	-362	-370	-469	-629	-779	----	2291	1054	821	598	628	452
15	146	111	66	<20	<20	131	-166	-521	-894	-846	-656	-427	-444	-385	-428	-650	----	----	1648	460	479	294	293	124
16	93	58	<20	<20	<20	<20	1786	-8	-34	-52	-112	-231	-300	-364	-455	-332	-434	----	395	141	95	47	<20	31
17	<20	<20	<20	<20	<20	<20	-2	-9	-12	-36	-276	-340	-425	-438	-386	-500	-709	----	632	274	38	94	<20	<20
18	<20	<20	<20	<20	<20	<20	-3	-2	-22	-18	-90	-211	-382	-437	-400	-392	-714	----	485	<20	<20	<20	<20	<20
19	<20	<20	<20	<20	<20	<20	<20	-3	0	-5	-13	-58	-62	-139	-191	-295	-476	----	281	<20	<20	<20	<20	<20
20	<20	<20	<20	<20	<20	20	0	0	0	-3	-58	-203	-193	-255	-355	-373	-373	-653	852	116	<20	<20	<20	<20
21	24	<20	<20	106	105	270	135	25	-47	-114	-40	-69	-107	-118	-153	-142	-251	----	300	27	<20	<20	<20	<20
22	<20	<20	<20	<20	<20	<20	-14	-2	-25	-37	-156	-276	-259	-333	-345	-415	-698	----	426	25	<20	<20	<20	31
23	<20	<20	<20	<20	<20	<20	-7	0	0	-61	-196	-275	-245	-311	-322	-447	-627	2391	181	<20	<20	<20	<20	23
24	<20	<20	<20	<20	<20	<20	-8	-2	-37	-11	-15	-134	-162	-223	-335	-402	-786	1092	238	<20	<20	<20	<20	<20
25	<20	<20	<20	<20	<20	115	-48	-5	-8	-256	-283	-323	-261	-278	-427	-592	----	++++	727	153	<20	<20	<20	54
26	30	<20	<20	103	260	353	988	----	-612	-366	-134	-186	-323	-327	-427	-622	-828	----	1997	714	356	231	59	166
27	68	<20	54	<20	<20	<20	<20	-1	-12	-89	-88	-104	-113	-159	-185	-228	-577	----	597	316	259	67	<20	<20
28	20	<20	<20	<20	<20	<20	-15	0	0	-2	-15	-48	-149	-225	-262	-340	-787	----	238	21	<20	<20	<20	<20
29	<20	<20	<20	<20	<20	<20	0	-2	-13	0	-15	-88	-135	-171	-119	-329	-577	----	395	68	80	141	89	<20
30	<20	<20	<20	<20	<20	<20	324	-5	-7	-3	-38	-179	-157	-207	-191	-361	-698	1571	298	221	172	107	210	232

PERCENT VALID HOURS FOR JUNE, 1994 719*100/ 720= 99.9%

THREE HIGHEST VALUES FOR JUNE, 1994 XXXX(DD,HH) = ++++(25,17) 3536(3,17) 3502(8, 6) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 JULY, 1994

MONIN-OBUKHOV LENGTH 2 TIMES 10 MONIN2

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	95	<20	112	<20	<20	<20	62	-114	-320	-395	-551	-752	-406	-673	-641	-744	----	5320	626	121	220	148	108	<20
2	136	136	<20	24	<20	<20	<20	-359	-345	-173	-133	-141	-162	-169	-199	-120	-409	----	1052	363	122	<20	<20	<20
3	<20	<20	<20	<20	<20	<20	0	-77	-113	-62	-42	-39	-48	-136	-179	-266	-401	----	357	64	<20	<20	<20	33
4	<20	<20	<20	<20	<20	<20	0	-12	-23	-18	-39	-68	-76	-118	-269	-384	-550	----	698	156	72	51	67	<20
5	<20	<20	<20	<20	<20	<20	<20	-59	-39	-44	-58	-169	-410	-516	-524	-607	-621	----	578	71	182	233	89	<20
6	<20	90	<20	<20	<20	<20	<20	-400	-125	-31	-51	-38	-18	-43	-18	-10	-11	-22	<20	43	77	<20	<20	<20
7	<20	<20	****	<20	<20	<20	50	-24	-4	-3	-2	-2	-16	-16	-26	-8	-12	-66	<20	38	<20	<20	<20	<20
8	<20	<20	<20	<20	<20	<20	-24	0	-1	0	0	-22	-44	-21	-58	-3	-37	-357	<20	<20	<20	<20	<20	<20
9	<20	<20	<20	<20	<20	<20	-19	-38	0	-5	-22	-163	-294	-346	-313	-359	-923	----	475	98	49	<20	<20	115
10	142	<20	<20	<20	<20	<20	-69	<20	-25	-108	-198	-244	-199	-177	-169	-229	-419	----	360	37	<20	<20	57	<20
11	<20	<20	<20	<20	<20	<20	0	0	-3	-9	-27	-19	-30	-38	-92	-99	-213	----	188	56	<20	<20	22	<20
12	<20	<20	<20	<20	<20	<20	-5	-12	-41	-17	-10	-19	-26	-57	-137	-212	-340	----	297	81	71	<20	<20	<20
13	20	<20	<20	<20	<20	<20	1243	-88	-15	-11	-61	-94	-83	-158	-198	-340	-591	----	395	65	<20	<20	<20	<20
14	<20	<20	<20	<20	<20	<20	-348	-7	0	-5	-12	-72	-104	-159	-259	-466	-735	----	636	149	31	<20	28	<20
15	<20	<20	<20	<20	<20	<20	-10	0	-43	0	-12	-17	-63	-109	-225	-483	-798	----	816	194	23	<20	96	<20
16	<20	<20	<20	<20	<20	<20	-90	-12	-6	-4	-68	-107	-175	-210	-175	-280	-592	++++	281	<20	<20	<20	<20	58
17	<20	<20	<20	<20	52	168	++++	-61	-13	-2	-3	-13	-30	-80	-78	-77	-259	-496	503	96	79	<20	<20	<20
18	<20	186	<20	<20	<20	<20	<20	-66	-56	-61	-75	-160	-146	-175	-150	-132	-369	-545	705	----	----	----	----	1528
19	115	72	28	103	153	<20	-12	-8	-5	-4	-3	-16	-28	-13	-27	-18	-102	-432	----	----	-394	504	<20	<20
20	<20	<20	<20	<20	<20	24	776	-4	-9	0	-4	-12	-2	-23	-34	-94	-154	920	203	24	<20	<20	39	<20
21	<20	<20	<20	<20	<20	<20	<20	0	-5	-105	-100	-38	-44	-37	-52	----	210	335	245	<20	<20	<20	<20	<20
22	<20	<20	<20	<20	<20	<20	0	0	-32	-20	-81	-178	-178	-165	-252	-252	-310	----	525	147	<20	<20	<20	<20
23	<20	<20	<20	<20	<20	<20	-9	-9	-11	-19	-198	-467	-286	-228	-260	-404	-514	----	688	72	<20	<20	73	<20
24	<20	<20	<20	<20	<20	<20	-16	-13	-43	-4	-96	-92	-165	-227	-192	-245	-379	----	478	46	<20	<20	<20	<20
25	<20	<20	<20	<20	<20	<20	0	-16	0	-6	-42	-92	-69	-53	-77	-107	-585	334	69	<20	<20	<20	<20	<20
26	<20	<20	<20	<20	<20	<20	0	-7	-13	-6	-18	-25	-56	-88	-32	-86	-613	776	191	<20	<20	<20	<20	<20
27	<20	<20	<20	<20	<20	<20	<20	0	-5	-7	-4	-99	-174	-110	-144	-183	-400	----	299	39	<20	<20	<20	<20
28	<20	<20	<20	<20	<20	<20	214	-9	-7	-7	0	-67	-69	-178	-233	-291	-450	----	277	37	<20	<20	69	<20
29	<20	61	<20	<20	<20	<20	<20	-18	-6	-14	-74	-79	-118	-93	-114	-175	-253	-873	830	184	39	<20	<20	<20
30	<20	100	<20	<20	<20	<20	604	-28	-12	-22	-103	-243	-196	-183	-181	-260	-436	----	674	136	<20	<20	<20	<20
31	<20	<20	<20	<20	<20	<20	-50	0	-4	-4	-108	-173	-139	-222	-251	-313	-534	----	465	152	86	<20	<20	81

PERCENT VALID HOURS FOR JULY, 1994 743*100/ 744= 99.9%

THREE HIGHEST VALUES FOR JULY, 1994 XXXX(DD,HH) = ++++(16,17) ++++(17, 6) 5320(1,17) .(FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 AUG, 1994

MONIN-OBUKHOV LENGTH 2 TIMES 10 MONIN2

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	65	<20	<20	<20	<20	<20	-14	-4	-6	-16	-218	-271	-194	-267	-326	-387	-837	----	473	78	<20	<20	<20	<20
2	<20	<20	<20	<20	<20	<20	0	-7	-6	-25	-48	-105	-101	-171	-173	-152	-215	----	133	<20	<20	<20	<20	<20
3	<20	<20	<20	<20	<20	<20	149	-4	0	-6	0	-4	-40	-70	-237	-398	-738	++++	211	<20	<20	<20	<20	<20
4	<20	<20	<20	<20	<20	<20	-45	-8	-6	-9	-4	-77	-287	-324	-467	-626	----	2200	195	<20	<20	<20	<20	<20
5	<20	<20	<20	<20	<20	<20	-9	-6	-6	-19	-130	-344	-343	-251	-443	-856	----	3415	548	108	74	<20	107	<20
6	29	44	<20	<20	<20	<20	<20	-39	-64	-69	-167	-138	-172	-207	-156	-112	-389	----	115	31	<20	<20	51	<20
7	<20	<20	<20	<20	<20	<20	0	-14	-64	-75	-58	-133	-105	-176	-195	-398	-361	----	2701	1331	945	467	285	<20
8	<20	23	<20	<20	<20	32	<20	----	-384	----	----	----	-888	-441	-184	-90	-121	-528	----	532	<20	33	43	79
9	105	<20	<20	<20	<20	<20	-819	0	0	-59	-146	-183	-150	-76	-53	-398	-891	-230	-24	187	248	<20	99	118
10	<20	<20	394	309	44	<20	-6	-9	-5	-8	-32	-16	-83	-40	-32	-98	-167	----	353	81	680	<20	136	137
11	150	71	192	101	<20	<20	-10	-10	-6	0	-5	-3	-22	-25	-69	-120	-168	-783	311	51	<20	<20	<20	<20
12	139	43	21	<20	<20	<20	<20	-140	-150	351	-202	-23	-111	-71	-45	-36	-125	-288	----	234	150	<20	89	31
13	<20	<20	101	<20	176	340	-729	-54	-4	-9	-10	-8	-19	-21	-263	-309	-98	-80	241	385	<20	79	<20	46
14	273	58	<20	<20	<20	48	-29	-13	-4	-5	-11	-3	-54	-112	-32	-52	-79	----	192	77	76	63	<20	<20
15	<20	<20	<20	<20	<20	<20	<20	-67	0	0	-3	-3	-45	-51	-75	-75	-199	----	130	49	<20	<20	<20	<20
16	<20	<20	<20	<20	<20	<20	43	0	0	-8	-57	-162	-200	-212	-288	-318	-432	++++	179	56	<20	<20	27	<20
17	<20	130	<20	<20	<20	<20	<20	-8	-4	-131	-423	-393	-370	----	-794	-933	-964	----	3939	205	<20	<20	56	<20
18	<20	<20	<20	<20	<20	<20	30	-137	-48	-80	-113	-168	-211	-198	-345	-472	-535	----	231	57	37	<20	1405	79
19	54	62	364	472	<20	72	49	-81	-32	-61	-22	-70	-64	-21	-36	-64	-68	-199	150	123	47	66	57	153
20	61	21	<20	<20	<20	<20	-58	-5	0	-3	-49	-151	-124	-176	-265	-399	-800	----	452	154	43	<20	<20	<20
21	68	<20	<20	<20	<20	<20	<20	-321	-6	-181	-510	-449	-521	-450	-288	-463	----	3692	278	<20	<20	<20	31	<20
22	<20	<20	<20	81	<20	<20	<20	<20	-25	-143	-397	-309	-252	-317	-365	-448	----	1497	125	<20	<20	<20	24	<20
23	<20	<20	<20	<20	<20	<20	<20	0	-8	-9	0	-18	-76	-132	-249	-418	-792	1080	159	<20	<20	<20	<20	<20
24	<20	<20	<20	<20	<20	<20	-13	-35	-6	-53	-37	-247	-178	-190	-230	-276	-628	580	156	36	<20	<20	<20	<20
25	<20	<20	<20	<20	<20	<20	<20	0	-43	-463	-436	-340	-324	-298	-307	-436	----	584	86	<20	<20	<20	<20	<20
26	<20	<20	<20	<20	<20	<20	-19	-28	-6	-37	-300	-218	-179	-217	-309	-622	----	1061	307	598	326	527	730	144
27	43	<20	<20	76	337	382	1258	-192	-85	-6	0	-5	-27	-4	-4	-5	-51	<20	<20	<20	<20	<20	<20	<20
28	<20	<20	<20	<20	<20	<20	140	-12	-7	-7	-17	-275	-224	-205	-252	-361	-616	1710	119	<20	<20	<20	<20	67
29	<20	<20	<20	<20	<20	<20	<20	-5	-21	-6	-12	-43	-88	-92	-133	-177	-383	476	80	<20	<20	<20	<20	<20
30	<20	<20	<20	<20	<20	<20	<20	-20	-1	-27	-4	-47	-57	-64	-160	-269	-647	786	37	<20	<20	<20	<20	<20
31	<20	<20	<20	<20	<20	<20	<20	0	-6	-6	-8	-154	-293	-432	-493	-530	----	875	133	<20	<20	<20	<20	<20

PERCENT VALID HOURS FOR AUG, 1994 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR AUG, 1994 XXXX(DD,HH) = ++++(3,17) ++++(16,17) 3939(17,18) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 — SEPT, 1994

MONIN-OBUKHOV LENGTH 2 TIMES 10 — MONIN2

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<20	<20	<20	<20	<20	<20	<20	-6	-5	-58	-121	-341	-263	-323	-361	-524	----	1048	213	140	<20	62	<20	<20
2	<20	<20	<20	<20	<20	<20	-4	-10	0	-340	-498	-430	-348	-514	-738	-955	----	1273	239	60	<20	<20	<20	<20
3	<20	<20	<20	<20	<20	<20	<20	-10	-31	-10	-5	-28	-116	-130	-239	-298	-572	632	44	<20	<20	<20	<20	42
4	<20	<20	<20	<20	<20	<20	-8	-1	-6	-1	-3	-45	-56	-47	-42	-106	-239	476	38	<20	<20	<20	<20	<20
5	<20	<20	<20	<20	<20	<20	-36	-3	-3	-14	-7	-33	-112	-78	-140	-202	-546	624	42	<20	<20	<20	<20	<20
6	<20	<20	<20	<20	<20	<20	-1	0	-13	-16	-31	-104	-108	-118	-144	-225	-584	432	36	<20	51	<20	<20	<20
7	<20	<20	<20	<20	<20	<20	<20	<20	0	0	-5	-217	-218	-171	-271	-438	----	396	175	86	<20	<20	<20	<20
8	<20	<20	<20	<20	<20	<20	-2	0	-2	-16	-207	-364	-347	-453	-645	----	----	727	311	54	<20	<20	<20	30
9	<20	<20	<20	<20	<20	<20	<20	-24	-5	-26	-107	-251	-262	-286	-280	----	909	484	459	500	359	310	244	392
10	355	283	316	257	244	185	591	6176	----	----	-958	-797	-660	-868	----	----	----	1514	310	22	<20	112	178	221
11	87	144	39	34	<20	<20	<20	1641	----	-621	-447	-559	-466	-516	-570	-689	----	747	147	102	29	<20	75	111
12	257	573	226	131	32	51	256	2464	-476	-539	-952	-802	-417	-434	-486	-616	----	1811	843	93	<20	24	125	353
13	332	<20	<20	<20	<20	<20	<20	-7	-27	-48	-82	-90	-155	-117	-175	-241	-913	1371	32	<20	<20	<20	<20	<20
14	<20	<20	<20	<20	<20	<20	230	-89	-1	-3	-3	-6	-18	-12	-33	-7	-47	<20	35	<20	<20	<20	<20	<20
15	<20	<20	<20	<20	<20	<20	161	-29	-1	-3	-13	-10	-5	-6	-9	-51	-188	<20	<20	<20	<20	<20	<20	<20
16	<20	<20	<20	<20	<20	<20	<20	<20	0	0	-2	-3	-15	-12	-38	-32	<20	<20	27	<20	<20	<20	<20	<20
17	<20	<20	<20	<20	<20	<20	<20	-26	-39	-1	-1	-1	-3	-98	-35	-268	----	190	28	<20	<20	<20	<20	22
18	<20	<20	<20	<20	<20	<20	<20	-53	0	-7	-3	0	-8	-54	-23	-39	-238	<20	<20	<20	<20	<20	34	<20
19	<20	<20	<20	<20	<20	<20	<20	-16	1373	****	****	****	****	----	-346	-456	----	2415	752	500	550	404	45	<20
20	<20	57	25	<20	<20	<20	****	****	****	****	****	****	-8	-14	-6	-327	----	1187	22	<20	162	<20	<20	84
21	29	<20	76	<20	<20	<20	68	-19	-7	0	-4	-24	-32	-21	-3	-12	-50	<20	47	33	<20	<20	<20	<20
22	<20	<20	<20	<20	<20	<20	<20	0	-4	-1	-33	-2	-13	-42	-27	-88	++++	24	<20	<20	<20	<20	<20	<20
23	<20	<20	<20	<20	<20	<20	<20	-1	0	0	-1	0	-21	-31	-26	-38	48	<20	<20	<20	<20	<20	<20	<20
24	<20	<20	<20	<20	<20	<20	<20	-58	-7	-1	0	-6	-37	-107	-179	-712	----	127	<20	<20	43	<20	<20	<20
25	<20	<20	<20	<20	<20	<20	<20	-4	-2	0	0	-23	-35	-37	-112	-167	-864	197	41	<20	<20	<20	<20	<20
26	<20	<20	<20	<20	<20	<20	<20	-9	-27	-4	-2	0	-5	-5	-21	-66	----	240	57	<20	<20	<20	<20	<20
27	<20	<20	<20	<20	<20	<20	<20	-5	-3	-14	-11	-20	-89	-73	-160	-776	++++	538	<20	<20	<20	22	<20	<20
28	<20	<20	<20	<20	<20	<20	<20	0	-4	-2	-16	-139	-317	-477	-931	----	1934	490	350	261	408	165	30	202
29	227	<20	530	162	100	74	----	-389	-111	-207	-585	-715	----	824	1084	926	590	180	297	<20	<20	<20	102	56
30	<20	<20	<20	<20	22	<20	<20	0	-17	-15	-9	-20	-19	-16	-6	-25	669	<20	<20	<20	<20	<20	26	<20

PERCENT VALID HOURS FOR SEPT, 1994 710*100/ 720= 98.6%

THREE HIGHEST VALUES FOR SEPT, 1994 XXXX(DD,HH) = ++++(27,16) ++++(22,16) 6176(10, 7) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 OCT, 1994

MONIN-OBUKHOV LENGTH 2 TIMES 10 MONIN2

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<20	<20	20	<20	<20	<20	<20	-5	-4	-12	-6	-1	-3	-16	-15	-19	-119	<20	<20	<20	<20	<20	<20	<20
2	<20	<20	<20	<20	<20	<20	<20	-1	-4	0	-1	-62	-165	-218	-306	-607	1388	198	31	<20	47	<20	<20	<20
3	<20	59	<20	<20	<20	<20	<20	395	1985	----	-828	-68	-8	-1	-35	-111	<20	<20	<20	<20	<20	<20	<20	628
4	520	341	<20	<20	<20	30	<20	-392	----	-965	-679	-515	-788	----	----	----	++++	683	106	269	500	1348	226	796
5	584	61	109	466	541	1374	8001	----	-576	-630	-353	-240	-288	-229	-184	-153	----	176	233	59	<20	<20	<20	<20
6	<20	<20	<20	<20	<20	<20	0	-7	-5	0	-5	-3	-13	-7	-15	-39	-593	58	126	78	<20	<20	<20	<20
7	38	42	<20	<20	<20	<20	<20	101	-10	-5	-81	-79	-115	-120	-164	-686	1232	236	86	109	126	<20	<20	<20
8	<20	251	102	<20	<20	<20	<20	315	-198	-100	-85	-21	-4	-4	-1	-7	346	70	<20	<20	<20	<20	<20	<20
9	<20	<20	<20	<20	<20	<20	<20	0	-1	-12	-2	-1	-4	-8	-34	-34	20	<20	<20	47	<20	<20	<20	<20
0	<20	<20	<20	<20	<20	<20	<20	-2	-1	-1	0	-42	-267	-282	-445	----	668	64	<20	<20	<20	<20	<20	<20
1	<20	<20	<20	<20	<20	<20	<20	-1	-18	-16	-36	-93	-196	-155	-169	-571	260	45	<20	<20	<20	<20	<20	<20
2	<20	<20	<20	<20	<20	<20	<20	0	-2	-13	-41	-93	-316	-683	----	----	881	307	145	105	28	267	561	365
3	581	205	<20	55	88	<20	<20	-74	-7	-7	-3	-4	-7	-21	-19	-23	<20	<20	23	<20	<20	247	1908	143
4	195	68	87	44	<20	<20	<20	-15	-3	-5	-9	-50	-150	-197	-296	-824	++++	1873	1069	557	886	1431	----	----
5	905	411	449	188	144	258	628	-380	-1	-68	-134	-182	-203	-161	-425	-881	----	153	<20	<20	<20	45	255	114
6	<20	<20	<20	<20	37	28	<20	-9	-6	-5	-12	-62	-84	-67	-85	-114	-860	259	90	134	<20	<20	<20	21
7	<20	<20	<20	<20	<20	-267	-2	-1	-18	-2	-10	-14	-42	-10	-9	-28	92	62	52	<20	<20	<20	<20	<20
8	<20	<20	<20	<20	<20	<20	-765	0	-6	-37	-12	-19	-59	-72	-120	-298	385	21	<20	<20	<20	<20	<20	<20
9	<20	<20	<20	<20	<20	<20	<20	-16	0	-84	-6	-1	-2	-16	-34	-15	<20	<20	<20	<20	<20	<20	<20	<20
0	<20	<20	<20	<20	<20	<20	<20	-1	-3	-3	-4	-49	-12	-60	-50	-147	89	60	25	<20	<20	<20	<20	<20
1	<20	<20	<20	<20	<20	<20	<20	-1	<20	-75	-8	0	-2	-14	-123	----	177	27	<20	<20	<20	<20	<20	<20
2	<20	<20	<20	<20	<20	<20	<20	0	-3	0	-1	-3	-13	-19	-272	1186	92	<20	<20	<20	<20	<20	<20	<20
3	<20	<20	<20	<20	<20	<20	<20	-12	-1	0	0	<20	-5	-10	-75	----	119	<20	<20	<20	<20	<20	<20	<20
4	<20	<20	<20	<20	<20	44	<20	<20	-9	-1	-5	-9	-11	-10	-17	-93	<20	56	<20	<20	<20	<20	<20	<20
5	<20	<20	<20	<20	<20	<20	<20	-34	-5	0	-8	0	-1	-10	-23	35	42	70	<20	<20	<20	<20	<20	<20
6	<20	<20	<20	<20	<20	<20	<20	-157	-135	-37	-8	-17	-3	-1	-7	-431	157	53	<20	<20	<20	<20	<20	<20
7	<20	<20	<20	24	<20	<20	21	-18	-5	0	-287	-18	-7	-389	-304	5841	76	<20	<20	<20	<20	<20	<20	<20
8	<20	<20	<20	<20	<20	<20	<20	-10	-346	<20	-10	-8	-11	-4	-30	1209	119	69	<20	<20	<20	<20	<20	<20
9	<20	<20	<20	<20	<20	<20	<20	<20	-5	-6	-3	-1	-2	-23	-25	-45	<20	30	<20	26	<20	<20	<20	<20
0	<20	<20	<20	<20	<20	<20	<20	<20	----	-174	-71	-184	-136	-210	-200	1128	95	104	<20	<20	<20	<20	<20	<20
1	<20	<20	<20	<20	<20	<20	221	-1	-2	-1	-76	-7	0	-1	-4	<20	<20	<20	<20	<20	<20	<20	<20	<20

PERCENT VALID HOURS FOR OCT, 1994 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR OCT, 1994 XXXX(DD,HH) = ++++(14,16) ++++(4,16) 8001(5, 6) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 NOV, 1994

MONIN-OBUKHOV LENGTH 2 TIMES 10 MONIN2

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<20	<20	<20	<20	<20	<20	<20	-4	-59	-16	-10	-19	-307	----	----	946	268	148	347	527	415	384	389	272
2	317	512	145	219	272	534	668	713	587	2080	-632	-213	-126	-182	-615	----	----	----	----	530	++++	-998	-664	-521
3	-790	-541	-272	----	508	468	184	931	-137	-321	-291	-214	-204	-483	-479	-882	1595	<20	42	24	<20	51	<20	<20
4	<20	194	129	62	<20	<20	<20	93	-61	-26	-1	-5	-2	-19	-48	-461	130	<20	<20	<20	<20	<20	<20	<20
5	80	<20	<20	450	-36	-61	120	-11	-3	-25	-8	-5	-4	-1	-42	-82	55	77	47	89	<20	62	<20	<20
6	<20	<20	<20	<20	<20	<20	<20	-53	-153	-37	-97	0	0	-14	-4	318	<20	<20	46	<20	<20	<20	<20	<20
7	<20	<20	<20	<20	<20	<20	170	-64	-8	-16	-1	-88	-43	-146	-544	433	****	<20	<20	<20	<20	<20	<20	<20
8	<20	-159	-31	474	<20	<20	<20	-3	-3	-5	-3	-16	-15	-29	-205	-992	228	44	42	<20	<20	<20	<20	<20
9	<20	<20	<20	<20	<20	<20	<20	-30	-1	-61	-21	-57	-100	-80	-49	-418	257	<20	127	21	<20	<20	<20	<20
10	<20	<20	<20	<20	<20	<20	<20	<20	-285	-25	-113	----	----	----	----	----	186	812	399	403	206	42	<20	<20
11	<20	<20	<20	<20	<20	<20	<20	-172	-2	0	-1	-20	-13	-5	-39	-167	439	303	239	28	63	<20	<20	105
12	<20	57	<20	<20	<20	<20	<20	<20	0	788	-275	-263	-217	-249	-402	----	260	32	<20	<20	<20	804	139	132
13	53	60	23	<20	<20	<20	<20	<20	-135	-59	-507	-100	-74	-108	-141	----	411	208	65	<20	<20	<20	<20	21
14	<20	<20	<20	<20	<20	33	30	<20	-133	0	-433	-16	-21	-22	-41	----	129	70	65	<20	<20	<20	<20	<20
15	<20	<20	<20	<20	<20	<20	<20	0	0	-6	-5	0	-21	-11	-26	417	56	49	43	111	92	50	<20	<20
16	<20	<20	<20	<20	<20	<20	53	264	2229	-87	-9	-52	-172	-339	-424	----	3280	4989	208	760	557	278	<20	<20
17	<20	<20	<20	<20	<20	80	<20	-6	-9	-159	-117	-308	-728	-718	-808	----	113	21	488	644	523	----	----	759
18	926	-563	----	----	----	951	55	497	195	298	261	334	377	416	312	338	90	<20	193	<20	48	272	506	121
19	43	<20	74	33	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	83	<20	<20	<20	<20
20	<20	<20	<20	<20	<20	<20	<20	<20	662	<20	87	<20	<20	<20	26	<20	<20	<20	<20	<20	<20	<20	<20	<20
21	34	294	<20	180	<20	95	118	-2	-130	<20	-60	-131	-1	0	0	84	<20	<20	<20	33	<20	<20	<20	<20
22	<20	<20	<20	<20	<20	43	49	104	192	708	3580	----	----	----	6187	806	112	143	23	<20	<20	106	105	32
23	<20	<20	<20	<20	<20	<20	<20	<20	-35	<20	-1	0	<20	0	-9	-79	<20	<20	26	<20	<20	<20	<20	<20
24	<20	<20	32	<20	<20	<20	<20	-68	-15	-31	-3	-1	-1	-28	-9	<20	<20	<20	<20	<20	<20	<20	<20	<20
25	<20	<20	80	<20	<20	<20	<20	380	----	-3	578	5072	----	----	++++	4099	1665	1714	1659	1388	1277	1070	1284	945
26	908	511	416	1140	1360	853	242	777	9583	----	-562	1516	----	----	1893	651	220	288	108	36	<20	29	<20	49
27	<20	<20	<20	<20	<20	<20	<20	<20	33	-20	-3	-9	-98	-167	-596	872	32	<20	<20	<20	<20	<20	<20	<20
28	<20	44	<20	<20	<20	60	<20	449	-95	0	-50	-37	-32	-270	-337	51	77	21	<20	<20	<20	<20	<20	<20
29	<20	<20	<20	<20	<20	<20	<20	<20	35	-742	-35	-4	<20	-2	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
30	<20	<20	<20	<20	<20	<20	<20	<20	-2	-40	-1	<20	<20	92	-3	<20	<20	<20	<20	<20	<20	<20	<20	<20

PERCENT VALID HOURS FOR NOV, 1994 719*100/ 720= 99.9%

THREE HIGHEST VALUES FOR NOV, 1994 XXXX(DD,HH) = ++++(2,20) ++++(25,14) 9583(26, 8) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 DEC, 1994

MONIN-OBUKHOV LENGTH 2 TIMES 10 MONIN2

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	0	-6	<20	-5	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
2	<20	<20	25	<20	<20	<20	<20	-268	152	-3	0	-396	-299	<20	57	37	<20	<20	35	<20	<20	<20	<20	<20
3	<20	<20	<20	<20	47	56	<20	<20	-50	-1	-6	0	-29	-182	<20	<20	<20	<20	22	<20	<20	<20	<20	<20
4	<20	<20	<20	<20	<20	<20	-360	-162	-7	-40	-37	-282	-44	43	<20	<20	<20	<20	<20	<20	115	<20	<20	<20
5	<20	<20	<20	<20	<20	<20	<20	31	-14	-2	-3	-5	-17	-118	-106	1127	<20	<20	50	142	74	<20	<20	63
6	<20	<20	<20	<20	<20	131	34	-74	-7	-10	-8	0	-222	-80	-168	623	185	<20	<20	<20	<20	<20	<20	<20
7	<20	<20	27	75	<20	<20	<20	-169	-25	-110	-28	-21	-14	-38	-254	229	89	<20	<20	<20	<20	<20	<20	<20
8	<20	<20	<20	<20	<20	62	22	99	639	----	-838	-622	-469	-398	-896	304	62	****	****	****	****	****	****	****
9	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
11	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
12	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
15	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
18	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	<20	<20	<20	<20	<20	<20	<20	<20	<20
20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	36	<20	<20	<20	<20	<20	<20
21	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-2	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
22	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	82	23	<20	24	24	<20	<20	<20	<20	<20	<20	<20	<20	<20
23	<20	78	304	173	31	<20	<20	<20	<20	<20	<20	-51	<20	<20	<20	<20	23	<20	<20	203	220	116	<20	<20
24	22	<20	39	24	<20	<20	<20	<20	<20	<20	<20	<20	<20	34	<20	<20	<20	<20	<20	32	734	27	34	95
25	26	37	<20	294	84	171	109	<20	36	<20	150	202	<20	599	233	89	160	151	201	440	222	<20	302	60
26	<20	138	59	<20	110	<20	<20	227	218	218	389	304	359	134	30	63	85	69	<20	<20	206	<20	<20	<20
27	50	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	43	<20	<20
28	<20	<20	<20	<20	52	<20	<20	43	26	<20	<20	<20	2218	546	<20	86	24	68	<20	987	435	<20	37	91
29	99	123	303	457	<20	<20	29	55	<20	<20	<20	<20	655	1033	325	92	<20	<20	<20	29	<20	54	<20	119
30	133	83	154	349	222	69	<20	<20	<20	122	719	478	115	-15	42	<20	<20	42	50	<20	<20	<20	<20	<20
31	<20	<20	127	75	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20

PERCENT VALID HOURS FOR DEC, 1994 482*100/ 744= 64.8%

THREE HIGHEST VALUES FOR DEC, 1994 XXXX(DD,HH) = 2218(28,12) 1127(5,15) 1033(29,13). (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 JAN, 1994

MONIN-OBUKHOV LENGTH 3 TIMES 10 MONIN3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-20	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
2	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-6	<80	<80	<80	<80	<80	<80	<80	<80	<80	367
3	<80	<80	<80	<80	<80	<80	<80	<80	<80	-19	-21	-20	0	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
4	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-9	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
5	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	0	-40	-35	149	479	771	1136	833	<80	<80	<80	<80	<80
6	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-48	----	----	----	7837	786	<80	<80	<80	<80	<80	<80	<80	<80
7	<80	<80	<80	<80	<80	<80	<80	<80	<80	-6	-2	-237	0	-476	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
8	<80	<80	<80	<80	<80	<80	<80	<80	-18	0	-9	-3	-3	-16	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
9	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-12	-3	<80	<80	-156	<80	<80	<80	<80	<80	<80	<80	<80	<80
10	<80	<80	<80	169	<80	<80	<80	<80	251	765	++++	-713	-624	-532	249	<80	<80	<80	<80	<80	<80	<80	<80	<80
11	<80	<80	<80	<80	<80	<80	<80	<80	<80	-82	-3	0	-2	-11	<80	<80	<80	128	92	<80	<80	<80	<80	<80
12	160	<80	<80	<80	<80	<80	<80	<80	<80	<80	-472	-341	-116	-377	525	151	<80	<80	<80	<80	<80	<80	<80	<80
13	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	1264	-9	<80	-96	189	153	116	180	321	<80	<80	<80	<80	<80
14	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	0	-8	-11	-1	-144	<80	<80	<80	<80	<80	<80	<80	<80	<80
15	<80	<80	<80	<80	<80	208	748	<80	<80	<80	<80	-10	<80	-25	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
16	<80	<80	<80	<80	<80	<80	<80	<80	<80	-3	-3	<80	3442	3067	916	284	137	<80	<80	<80	<80	<80	<80	<80
17	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	0	<80	-1	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
18	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-19	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
19	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-84	-55	-12	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
20	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-270	0	-322	0	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
21	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-5	347	-5	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
22	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-4	-690	-1	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
23	<80	<80	<80	92	356	<80	<80	<80	<80	-471	-90	2697	-130	128	126	278	<80	<80	<80	<80	<80	<80	<80	<80
24	<80	<80	<80	<80	<80	<80	<80	<80	<80	1984	0	<80	-26	-145	257	162	104	<80	<80	<80	<80	<80	<80	116
25	<80	245	177	432	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
27	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
28	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
29	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
31	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****

PERCENT VALID HOURS FOR JAN, 1994 580*100/ 744= 78.0%

THREE HIGHEST VALUES FOR JAN, 1994 XXXX(DD,HH) = ++++(10,10) 7837(6,14) 3442(16,12) . (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 FEB, 1994

MONIN-OBUKHOV LENGTH 3 TIMES 10 MONIN3

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
2	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
3	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
4	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
5	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
6	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
7	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
8	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
9	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
11	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
12	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	<80	<80	<80	<80	<80	<80
13	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-1	0	0	<80	<80	<80	<80	<80	<80	<80	<80	<80
14	<80	<80	<80	<80	<80	<80	<80	<80	<80	-27	-102	<80	-22	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
15	<80	315	82	118	<80	<80	<80	<80	<80	<80	<80	0	<80	<80	-442	502	379	110	<80	<80	<80	<80	<80	<80
16	<80	<80	328	111	367	286	470	299	598	<80	<80	-47	-3	-228	----	624	391	<80	<80	<80	<80	<80	<80	<80
17	<80	<80	<80	<80	<80	<80	<80	<80	<80	-5	-6	-1	-5	-5	-20	-305	317	<80	80	<80	<80	<80	<80	<80
18	<80	<80	<80	<80	<80	<80	151	127	----	-56	-269	-884	-284	-243	-363	----	127	183	249	<80	<80	<80	<80	<80
19	<80	<80	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	<80	<80	<80	<80	<80	<80
21	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-9	-8	-18	-118	-225	----	208	118	<80	<80	<80	<80	<80	<80
22	<80	<80	<80	<80	<80	<80	130	<80	<80	645	-284	-274	-174	-226	-266	----	396	96	102	<80	<80	<80	<80	<80
23	<80	<80	<80	<80	<80	<80	<80	<80	153	-37	-1	-1	-30	-2	-2	-1	-405	<80	<80	<80	<80	<80	<80	<80
24	<80	<80	<80	<80	<80	<80	<80	<80	<80	-2	-5	0	0	-17	-33	-821	134	<80	<80	<80	<80	<80	<80	<80
25	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	0	0	0	0	-1	----	261	<80	<80	<80	<80	<80	<80	<80
26	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-1	-1	-51	-102	----	2280	594	308	95	<80	<80	<80	<80	<80
27	<80	<80	<80	<80	<80	<80	<80	<80	<80	0	-10	-121	-313	----	<80	89	146	185	<80	82	<80	<80	307	153
28	<80	<80	<80	<80	<80	<80	<80	<80	374	----	-327	-250	-114	-163	-268	----	288	188	144	310	276	<80	<80	<80

PERCENT VALID HOURS FOR FEB, 1994 350*100/ 672= 52.1%

THREE HIGHEST VALUES FOR FEB, 1994 XXXX(DD,HH) = 2280(26,15) 645(22, 9) 624(16,15) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 MAR, 1994

MONIN-OBUKHOV LENGTH 3 TIMES 10 MONIN3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<80	<80	<80	<80	<80	<80	<80	<80	<80	-9	-13	-291	-178	-138	-77	-247	----	409	<80	<80	<80	<80	<80	<80
2	<80	<80	<80	<80	<80	<80	<80	<80	<80	0	0	-12	-6	0	0	-21	<80	<80	<80	<80	<80	<80	<80	<80
3	<80	<80	<80	<80	<80	<80	<80	<80	3470	-21	0	-8	-8	0	-88	-163	101	<80	<80	<80	<80	<80	<80	<80
4	<80	<80	<80	<80	<80	<80	<80	<80	<80	0	0	0	-21	-5	-54	-119	176	134	<80	<80	<80	<80	<80	<80
5	<80	<80	<80	<80	<80	264	<80	<80	801	-36	-29	-57	-5	-121	----	8316	548	89	<80	<80	<80	<80	104	<80
6	<80	<80	<80	<80	<80	<80	<80	<80	<80	-53	-259	-122	-273	----	----	----	207	<80	<80	<80	****	728	316	<80
7	<80	<80	<80	<80	<80	<80	<80	<80	<80	-53	-9	-6	-83	-114	-169	-442	<80	<80	<80	<80	<80	<80	<80	<80
8	<80	<80	<80	<80	<80	<80	<80	<80	<80	-34	0	-5	-37	-20	-40	-84	<80	<80	<80	<80	<80	<80	<80	<80
9	<80	<80	<80	<80	<80	<80	<80	<80	<80	0	-16	0	0	0	-8	0	++++	<80	<80	<80	<80	<80	<80	<80
10	<80	<80	<80	<80	<80	<80	<80	<80	0	-15	-15	-6	-184	-455	-593	----	829	506	239	<80	<80	209	<80	<80
11	<80	<80	<80	<80	<80	294	<80	<80	729	-383	-499	-697	-755	-713	----	----	----	2671	982	961	512	<80	93	637
12	389	647	334	142	138	189	<80	<80	----	-432	-403	-528	-480	-387	-831	----	++++	667	<80	<80	<80	<80	83	<80
13	<80	<80	<80	<80	117	<80	<80	252	----	-202	-145	-5	0	-5	-93	-162	453	<80	<80	<80	<80	<80	<80	<80
14	<80	<80	<80	<80	<80	<80	<80	2184	-39	0	-7	-5	-25	-7	-11	-11	-391	<80	<80	<80	<80	<80	<80	<80
15	<80	<80	<80	<80	<80	<80	<80	<80	224	0	-89	-7	-7	-161	-171	----	1632	323	<80	<80	<80	<80	<80	<80
16	<80	<80	<80	<80	<80	<80	<80	<80	2243	----	-779	-460	-322	-338	-432	-545	++++	274	149	<80	117	<80	<80	<80
17	<80	<80	<80	<80	<80	<80	<80	<80	-118	-24	-6	-4	-5	0	-54	-177	----	83	<80	<80	<80	<80	<80	<80
18	<80	<80	<80	<80	<80	<80	318	1215	9518	-824	-469	-470	-365	-586	-985	----	----	942	478	192	415	814	347	99
19	87	106	424	425	445	<80	581	1589	5317	----	-876	-763	-381	-620	-340	-375	----	3032	1530	1142	547	4948	1565	<80
20	<80	<80	<80	<80	<80	<80	<80	<80	-144	-7	-4	-4	-4	-5	-29	-6	-45	186	206	<80	<80	<80	<80	<80
21	<80	<80	<80	<80	<80	<80	<80	<80	0	0	-5	-89	-138	-202	-295	-463	----	1274	381	135	<80	<80	<80	<80
22	<80	<80	<80	<80	<80	<80	<80	677	----	----	----	----	----	----	----	----	----	352	135	<80	<80	<80	<80	<80
23	<80	<80	<80	<80	<80	<80	<80	<80	-13	0	-8	-8	0	0	0	0	-217	<80	<80	<80	<80	<80	<80	<80
24	<80	<80	<80	<80	<80	<80	<80	<80	-166	0	-147	-113	-5	-146	-453	-419	----	<80	<80	<80	<80	<80	<80	<80
25	<80	<80	<80	<80	<80	<80	<80	1175	-242	-72	-47	-81	-22	-147	-307	-452	-332	815	492	304	<80	<80	<80	<80
26	<80	<80	<80	<80	<80	<80	<80	<80	-65	0	-124	-215	-299	-179	-278	-924	1418	<80	<80	<80	<80	<80	<80	<80
27	<80	<80	<80	<80	<80	<80	<80	<80	-171	-58	-104	-125	-282	-466	-655	----	1960	297	<80	<80	<80	<80	<80	<80
28	<80	<80	<80	<80	<80	<80	<80	<80	-1	-23	-28	0	-69	-164	-251	----	417	108	<80	<80	<80	<80	<80	<80
29	<80	<80	<80	<80	<80	<80	<80	<80	0	-15	0	-8	-32	-7	-8	-14	486	<80	<80	<80	<80	<80	<80	<80
30	<80	<80	<80	<80	<80	<80	<80	<80	<80	-10	-6	-5	-16	-50	-17	-51	-105	694	277	<80	<80	<80	<80	<80
31	<80	<80	<80	<80	<80	<80	<80	<80	-103	0	0	-222	-406	-362	-379	-626	----	342	<80	<80	<80	<80	<80	<80

PERCENT VALID HOURS FOR MAR, 1994 743*100/ 744= 99.9%

THREE HIGHEST VALUES FOR MAR, 1994 XXXX(DD,HH) = ++++(9,16) ++++(16,16) ++++(12,16) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 APR, 1994

MONIN-OBUKHOV LENGTH 3 TIMES 10 MONIN3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<80	<80	<80	<80	<80	<80	<80	<80	<80	-386	-224	-145	-69	-18	-21	-113	-204	116	<80	<80	<80	<80	<80	<80
2	<80	<80	<80	<80	<80	<80	<80	<80	-18	-1	-1	-1	-1	-1	-8	-22	-306	<80	93	<80	<80	<80	<80	<80
3	<80	<80	<80	<80	<80	<80	<80	<80	----	----	-752	-467	-376	-309	-802	----	-605	221	302	168	89	743	383	<80
4	<80	<80	<80	<80	<80	<80	<80	<80	-62	-22	-32	----	----	----	-723	-891	----	1214	274	159	82	<80	<80	<80
5	<80	<80	<80	<80	<80	<80	<80	-2	-5	****	****	****	****	****	-22	-37	-147	524	128	<80	<80	<80	<80	<80
6	<80	<80	<80	<80	<80	<80	<80	-14	0	-1	0	-1	0	0	-82	-238	-431	1718	<80	<80	318	264	580	<80
7	<80	<80	<80	<80	<80	<80	<80	<80	-12	-6	-1	-3	-3	-21	-64	-135	-199	701	<80	<80	<80	<80	<80	<80
8	<80	<80	<80	<80	<80	<80	281	-194	-70	-51	-24	-16	-93	-220	-413	-807	-625	-902	1683	883	1013	3148	6054	----
9	102	424	387	229	<80	243	1690	3670	<80	-19	-9	-15	-193	-879	-205	-223	----	1958	138	<80	244	<80	<80	<80
10	<80	<80	<80	<80	<80	<80	<80	<80	-49	-219	-154	-262	-199	-307	-315	-510	----	++++	932	630	662	286	221	279
11	97	90	164	<80	<80	<80	<80	-1	0	-7	-3	0	-3	-9	-19	-8	-6	-82	196	<80	<80	<80	<80	<80
12	<80	<80	<80	<80	<80	<80	<80	-2	-7	-3	-12	-1	-4	-18	-32	-46	-216	838	<80	<80	<80	<80	<80	<80
13	<80	<80	<80	<80	<80	<80	<80	-9	-5	-2	-10	-32	-64	-62	-80	-140	-506	740	97	<80	<80	<80	<80	<80
14	<80	<80	<80	<80	<80	<80	<80	<80	-23	-1	-5	-8	-15	-28	-55	-88	-57	<80	<80	<80	<80	88	<80	<80
15	<80	245	209	229	<80	189	<80	0	-128	-68	-70	-11	-8	-7	0	-9	-23	-118	<80	<80	<80	<80	<80	<80
16	<80	<80	<80	<80	<80	<80	<80	0	-3	-11	0	-20	-70	-28	-122	-217	----	<80	<80	<80	<80	<80	<80	<80
17	<80	<80	<80	<80	<80	<80	<80	0	0	0	-11	-17	-138	-158	-593	-504	++++	985	410	<80	<80	<80	<80	<80
18	<80	<80	<80	<80	<80	<80	<80	-6	-1	-1	-1	-12	-50	-7	-44	-23	-118	832	95	<80	<80	<80	<80	<80
19	<80	<80	<80	<80	<80	<80	<80	-1	0	0	-22	0	-18	-40	-97	-68	-131	678	<80	<80	<80	<80	<80	<80
20	<80	<80	<80	<80	<80	<80	<80	-3	0	-5	-4	-4	-79	-161	-198	-258	-557	916	172	<80	<80	<80	<80	<80
21	<80	<80	<80	<80	<80	<80	<80	-17	-1	-4	-89	-460	-507	-402	-365	-737	-980	++++	625	390	219	<80	<80	<80
22	<80	348	112	<80	<80	<80	<80	-8	-5	-33	-37	-71	-166	-407	-437	-461	-497	----	169	280	<80	<80	<80	461
23	528	338	539	338	590	<80	2557	----	-951	-787	-818	-809	-873	-866	-940	----	----	----	----	++++	5749	++++	++++	9261
24	7267	2351	3187	835	<80	352	----	-568	-360	-242	-169	-113	-65	-74	-84	-142	-258	-467	-830	----	<80	<80	<80	<80
25	<80	<80	<80	363	527	<80	-383	-138	-541	-450	-313	-285	-665	-851	-526	-401	7358	1176	810	189	<80	<80	<80	<80
26	<80	<80	<80	<80	<80	<80	-12	-3	-12	-1	-1	-43	-206	----	-731	-214	-304	-458	573	232	<80	<80	230	640
27	<80	<80	<80	<80	<80	405	-114	-44	-53	-120	-87	-285	-183	-151	-99	-138	-347	-81	-328	457	<80	1494	<80	<80
28	<80	286	<80	244	<80	<80	-169	-1	-2	0	-386	-36	-26	-220	-225	-91	-34	----	<80	<80	<80	<80	<80	<80
29	<80	<80	<80	<80	<80	<80	-7	-2	-5	0	-20	-57	-61	-10	-15	-23	-13	-46	<80	<80	<80	<80	<80	<80
30	<80	<80	<80	<80	<80	<80	<80	0	-3	0	0	-22	-131	-248	-436	-987	-727	2482	113	<80	<80	<80	<80	<80

PERCENT VALID HOURS FOR APR, 1994 715*100/ 720= 99.3%

THREE HIGHEST VALUES FOR APR, 1994 XXXX(DD,HH) = ++++(17,16) ++++(21,17) ++++(23,19) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 MAY, 1994

MONIN-OBUKHOV LENGTH 3 TIMES 10 MONIN3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<80	<80	<80	<80	<80	<80	<80	-11	-22	-3	-6	0	-9	-17	-7	-13	-32	-55	<80	<80	<80	<80	<80	<80
2	<80	<80	<80	<80	<80	<80	<80	0	-1	-7	-1	-13	-37	-46	-64	-135	-336	----	218	<80	<80	<80	<80	<80
3	<80	<80	<80	<80	<80	<80	<80	-6	-1	-1	-5	0	-15	-61	-65	-149	-177	-644	<80	<80	<80	<80	<80	<80
4	<80	<80	<80	<80	<80	<80	<80	-3	0	-18	-2	-35	-62	-180	-332	-457	-914	----	990	166	<80	<80	<80	105
5	<80	<80	<80	<80	<80	<80	<80	-89	-11	-105	-214	-177	-238	-358	-362	-415	----	----	105	<80	<80	229	672	<80
6	<80	104	<80	<80	<80	<80	6675	-301	-368	-275	-268	-645	-526	-475	-628	-606	-926	----	----	----	----	----	908	251
7	<80	<80	<80	<80	<80	-13	-1	-5	-29	-5	-18	-32	-69	-103	-64	-73	-111	-389	-319	-561	----	----	7078	2864
8	470	371	<80	<80	<80	<80	-542	-116	-81	-8	-89	-84	-114	-220	-292	-25	-36	-1	964	<80	<80	<80	<80	<80
9	<80	<80	<80	<80	<80	<80	<80	<80	<80	-86	-8	-43	-50	-34	-32	-332	----	----	----	<80	<80	<80	<80	<80
10	<80	<80	<80	<80	<80	<80	-76	-23	-1	-1	0	-68	-27	-66	-236	-303	-253	----	186	<80	<80	<80	<80	<80
11	<80	<80	<80	<80	<80	<80	0	0	-3	-7	-6	0	-17	-1	-15	----	-374	----	2949	843	<80	<80	120	<80
12	<80	<80	<80	<80	<80	<80	<80	-28	-22	-3	-41	-39	-52	-58	-88	-233	-429	----	1271	----	1125	<80	<80	<80
13	121	<80	<80	<80	<80	<80	-65	0	-1	-6	0	0	-4	-27	-133	-313	-70	<80	<80	<80	<80	<80	<80	<80
14	<80	<80	<80	<80	<80	<80	<80	0	0	0	-16	-87	-142	-143	-305	-320	-695	----	680	273	249	688	1421	979
15	1082	461	213	<80	<80	<80	<80	-941	-976	-523	-400	-441	-592	-631	----	----	----	----	1608	583	363	659	561	566
16	541	<80	<80	405	690	1188	----	----	-689	-814	-464	-436	-407	-559	-746	----	----	----	++++	----	----	185	<80	<80
17	<80	<80	<80	<80	<80	<80	-4	-7	-3	-1	-185	-274	-328	-258	-190	-383	-625	-942	5962	604	1845	2383	1127	579
18	<80	<80	<80	298	366	<80	-101	-2	-99	-163	-173	-233	-282	-262	-273	-304	-409	----	6579	610	249	<80	<80	<80
19	<80	<80	<80	<80	<80	<80	-59	-176	-152	-19	-6	-4	-15	-42	-39	-43	-89	-146	----	2143	<80	<80	<80	<80
20	<80	<80	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
21	****	<80	<80	<80	<80	<80	-7	-13	-1	-68	-153	-414	-21	-33	-70	-101	-294	----	325	<80	<80	<80	<80	<80
22	<80	<80	<80	<80	<80	<80	-24	-41	-8	-18	-20	-44	-69	-111	-67	-103	-143	-804	117	<80	<80	<80	<80	<80
23	<80	<80	<80	<80	<80	<80	351	-4	-1	-1	0	-1	-19	-39	-26	-28	-241	----	----	<80	<80	<80	<80	<80
24	<80	<80	<80	<80	<80	<80	<80	0	0	0	-1	-115	-111	-224	-104	-85	-140	----	4695	3459	<80	<80	<80	<80
25	136	<80	<80	<80	<80	<80	-209	0	-8	-23	-25	-36	-128	-174	-119	-136	-474	-850	----	6433	<80	<80	<80	<80
26	<80	<80	<80	<80	<80	<80	<80	0	-15	-58	-10	-19	-21	-40	-182	-274	-198	-591	----	3200	1505	<80	<80	489
27	<80	<80	<80	<80	<80	<80	-542	-3	-46	-282	-365	-294	-415	-371	-246	-555	-696	----	1133	258	137	<80	<80	147
28	<80	<80	<80	<80	<80	<80	<80	-10	-4	-9	-49	-48	-62	-92	-132	-141	-247	-889	<80	<80	<80	<80	<80	<80
29	<80	<80	<80	<80	<80	<80	<80	-11	-3	-7	-6	-16	-57	-87	-160	-194	-468	4295	264	<80	<80	<80	<80	<80
30	<80	<80	<80	<80	<80	<80	0	-4	-1	-4	-5	0	-184	-508	-331	-95	-767	++++	1936	9594	359	<80	154	300
31	1732	101	359	<80	<80	<80	0	-1	-37	-146	-100	-60	-13	-25	0	-20	-46	-128	<80	<80	<80	<80	<80	<80

PERCENT VALID HOURS FOR MAY, 1994 721*100/ 744= 96.9%

THREE HIGHEST VALUES FOR MAY, 1994 XXXX(DD,HH) = ++++(16,18) ++++(30,17) 9594(30,19) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 JUNE, 1994

MONIN-OBUKHOV LENGTH 3 TIMES 10 MONIN3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<80	<80	<80	<80	<80	<80	<80	-13	-1	-11	0	-1	-8	-16	-6	-2	-18	0	<80	<80	<80	<80	<80	<80
2	<80	<80	<80	<80	<80	<80	<80	-4	<80	<80	0	-2	****	-18	-56	-186	-547	----	613	154	<80	<80	<80	<80
3	<80	<80	<80	<80	<80	<80	<80	-25	-1	-120	-314	-187	-289	-434	-560	-567	-542	----	663	302	<80	<80	<80	<80
4	<80	<80	<80	<80	<80	<80	<80	-2	-59	-54	-42	-42	-37	-92	-146	-136	-333	----	354	<80	<80	<80	<80	<80
5	<80	<80	<80	<80	<80	<80	-1	-20	0	0	-20	-173	-385	-384	-441	-543	-752	----	876	151	662	488	453	278
6	<80	317	85	<80	<80	<80	----	-431	-290	-627	-600	-362	-317	-400	-467	----	----	----	2672	863	441	554	<80	97
7	<80	<80	<80	<80	<80	<80	<80	-11	-5	<80	-1	-10	-18	-15	-38	-44	-201	-719	315	100	<80	<80	<80	<80
8	<80	<80	<80	<80	<80	412	4302	-364	-27	-9	0	-11	-3	-11	-3	-18	-11	-205	158	<80	<80	<80	<80	<80
9	<80	<80	<80	<80	<80	<80	<80	-7	0	-7	-2	-1	0	-1	-12	-24	-56	-292	90	<80	<80	<80	<80	<80
10	<80	<80	<80	<80	<80	<80	<80	-10	0	-5	-4	0	-15	-28	-18	-84	-123	-851	130	<80	<80	<80	<80	<80
11	<80	<80	<80	<80	<80	<80	<80	-4	-3	-9	-15	-73	-85	-56	-134	-217	-467	----	656	144	<80	<80	<80	<80
12	<80	<80	<80	<80	<80	<80	<80	-1	-1	-3	-82	-65	-108	-203	-305	-387	-657	----	665	<80	<80	<80	<80	<80
13	<80	<80	<80	<80	<80	<80	<80	-9	-2	-74	-293	-300	-255	-364	-554	-853	----	----	946	359	<80	<80	<80	<80
14	<80	<80	<80	<80	<80	<80	-736	-313	-274	-370	-509	-454	-344	-338	-485	-607	-741	----	3691	1689	1067	780	719	467
15	<80	<80	<80	<80	<80	127	-106	-671	-788	-790	-583	-399	-400	-361	-420	-713	----	----	2742	587	548	267	348	129
16	<80	<80	<80	<80	<80	<80	<80	0	-48	-62	-92	-182	-244	-300	-391	-281	-424	----	591	127	<80	<80	<80	<80
17	<80	<80	<80	<80	<80	<80	<80	-4	-3	-25	-251	-265	-383	-370	-354	-485	-641	----	1017	355	<80	<80	<80	<80
18	<80	<80	<80	<80	<80	<80	<80	0	-1	-3	-96	-191	-334	-406	-365	-360	-628	----	540	<80	<80	<80	<80	<80
19	<80	<80	<80	<80	<80	<80	-10	-3	-4	-22	-11	-49	-36	-128	-166	-243	-428	----	316	<80	<80	<80	<80	<80
20	<80	<80	<80	<80	<80	<80	<80	-4	-2	-4	-49	-168	-193	-216	-311	-339	-335	-593	1522	251	<80	<80	<80	275
21	1245	<80	<80	<80	145	316	<80	<80	-94	-155	-34	-62	-98	-116	-131	-124	-234	-898	448	<80	<80	<80	<80	<80
22	<80	<80	<80	<80	<80	<80	0	-1	0	-21	-154	-243	-231	-288	-301	-389	-673	----	673	<80	<80	<80	<80	<80
23	<80	<80	<80	<80	<80	<80	<80	0	-4	-35	-169	-229	-213	-289	-311	-379	-565	++++	269	<80	<80	<80	<80	<80
24	<80	<80	<80	<80	<80	<80	<80	-1	-12	-2	-18	-118	-134	-192	-316	-342	-686	1961	305	<80	<80	<80	<80	<80
25	<80	<80	<80	<80	<80	<80	<80	-8	0	-239	-260	-259	-238	-243	-384	-568	-985	----	1104	210	<80	<80	<80	<80
26	<80	<80	<80	168	349	364	1412	----	-568	-307	-123	-150	-288	-291	-386	-563	-723	----	3316	1074	640	294	<80	255
27	129	<80	<80	<80	<80	<80	<80	-2	0	-105	-80	-92	-110	-144	-167	-202	-559	----	739	339	341	142	<80	<80
28	<80	<80	<80	<80	<80	<80	<80	-3	0	-1	-3	-36	-144	-189	-219	-311	-720	-713	258	<80	<80	<80	<80	<80
29	<80	<80	<80	<80	<80	<80	<80	-6	-4	-2	-5	-73	-104	-154	-110	-330	-503	----	436	<80	<80	156	177	<80
30	<80	<80	<80	<80	<80	<80	<80	-8	-47	-2	-40	-159	-130	-207	-184	-304	-640	2885	411	260	286	198	251	284

PERCENT VALID HOURS FOR JUNE, 1994 719*100/ 720= 99.9%

THREE HIGHEST VALUES FOR JUNE, 1994 XXXX(DD,HH) = ++++(23,17) 4302(8, 6) 3691(14,18) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 JULY, 1994

MONIN-OBUKHOV LENGTH 3 TIMES 10 MONIN3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	152	<80	<80	<80	<80	<80	<80	1479	-366	-400	-501	-689	-417	-722	-530	-826	----	----	1184	374	437	157	145	<80
2	<80	<80	<80	<80	<80	<80	<80	-285	-340	-137	-128	-143	-143	-174	-213	-100	-317	----	1682	663	154	<80	<80	<80
3	<80	<80	<80	<80	<80	<80	<80	-7	-90	-48	-24	-22	-78	-110	-194	-186	-329	-866	398	130	<80	<80	<80	<80
4	<80	<80	<80	<80	<80	<80	<80	-8	-37	-30	-42	-55	-71	-121	-213	-363	-535	----	1164	253	<80	144	<80	<80
5	<80	<80	<80	<80	<80	<80	<80	0	-67	-46	-42	-140	-369	-445	-440	-582	-594	----	716	143	243	320	<80	<80
6	<80	<80	<80	<80	<80	<80	<80	-434	-225	-53	-44	-26	-3	-36	-13	-14	-4	-10	<80	<80	<80	<80	<80	<80
7	<80	<80	****	<80	<80	<80	<80	-9	-6	0	0	-3	-11	-3	-11	-14	-5	-37	<80	<80	<80	<80	<80	<80
8	<80	<80	<80	<80	<80	<80	<80	0	0	-28	-22	0	-41	-26	-25	-18	-41	-70	<80	<80	<80	<80	<80	<80
9	<80	<80	<80	<80	<80	<80	<80	0	-7	-8	-30	-160	-243	-296	-249	-382	-731	----	727	183	<80	<80	<80	<80
10	<80	<80	<80	<80	<80	<80	<80	-7	0	-121	-130	-180	-192	-185	-209	-176	-329	----	381	123	<80	<80	<80	<80
11	<80	<80	<80	<80	<80	<80	<80	-18	0	-33	-24	-47	-11	-24	-87	-123	-186	-810	202	126	<80	<80	<80	<80
12	<80	<80	<80	<80	<80	<80	<80	-13	0	0	-4	-12	-11	-41	-111	-162	-245	----	365	146	118	<80	<80	<80
13	<80	<80	<80	<80	<80	<80	<80	-6	-24	-18	-71	-54	-79	-120	-165	-301	-541	----	461	160	<80	<80	<80	<80
14	<80	<80	<80	<80	<80	<80	<80	-15	-9	-7	0	-78	-104	-124	-234	-371	-676	----	1143	258	177	<80	<80	<80
15	<80	<80	<80	<80	<80	<80	<80	-11	0	0	-4	-10	-75	-79	-194	-433	-842	----	1378	330	150	<80	<80	<80
16	<80	<80	<80	<80	<80	<80	-53	-8	-10	-23	-75	-73	-152	-167	-126	-247	-587	----	438	<80	<80	<80	<80	<80
17	<80	<80	<80	<80	<80	<80	139	-24	-5	0	-4	0	-12	-52	-111	-53	-154	-393	811	108	<80	<80	<80	<80
18	<80	118	<80	<80	<80	<80	<80	-54	-59	-44	-86	-131	-119	-117	-149	-159	-338	-444	2974	----	----	----	----	2458
19	<80	<80	<80	<80	214	<80	-14	-10	0	0	0	-10	-10	-9	-10	-55	-108	-283	----	866	<80	618	<80	<80
20	<80	<80	<80	<80	<80	<80	-16	0	0	-10	-6	-4	-3	-15	-46	-77	-111	2026	365	<80	<80	150	<80	<80
21	<80	<80	<80	<80	<80	<80	<80	0	0	-128	-198	-131	-61	-38	-52	----	<80	93	224	<80	<80	<80	<80	<80
22	<80	<80	<80	<80	<80	<80	-18	-10	-5	-5	-10	-150	-157	-135	-223	-200	-368	----	880	346	<80	<80	<80	<80
23	<80	<80	<80	<80	<80	<80	<80	-15	-6	-6	-197	-389	-278	-215	-235	-376	-438	-861	1413	196	<80	<80	<80	<80
24	<80	<80	<80	<80	<80	<80	<80	-6	0	-5	-81	-79	-180	-173	-161	-211	-325	----	504	<80	<80	<80	<80	<80
25	<80	<80	<80	<80	<80	<80	<80	-13	0	0	-33	-78	-56	-37	-90	-83	-444	1736	<80	<80	<80	<80	<80	<80
26	<80	<80	<80	<80	<80	<80	<80	0	-99	0	-6	-4	-41	-83	-32	-31	-461	1625	165	<80	<80	<80	<80	<80
27	<80	<80	<80	<80	<80	<80	<80	0	0	-6	-5	-84	-124	-104	-109	-167	-381	----	342	190	<80	<80	<80	<80
28	<80	<80	<80	<80	<80	<80	<80	-26	-10	-8	-19	-40	-78	-159	-202	-282	-423	----	395	<80	<80	<80	<80	<80
29	<80	<80	<80	<80	<80	<80	<80	0	-7	0	-58	-87	-110	-83	-82	-179	-229	-445	1268	296	212	<80	<80	<80
30	<80	<80	<80	<80	<80	<80	<80	0	-19	-4	-54	-198	-184	-171	-154	-226	-348	-984	1038	269	<80	<80	<80	<80
31	<80	<80	<80	<80	<80	<80	<80	-17	0	0	-85	-118	-115	-215	-222	-335	-508	----	622	238	<80	<80	<80	<80

PERCENT VALID HOURS FOR JULY, 1994 743*100/ 744= 99.9%

THREE HIGHEST VALUES FOR JULY, 1994 XXXX(DD,HH) = 2974(18,18) 2458(18,23) 2026(20,17) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 AUG, 1994

MONIN-OBUKHOV LENGTH 3 TIMES 10 MONIN3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<80	<80	<80	<80	<80	<80	<80	0	0	0	-192	-178	-178	-257	-273	-327	-756	----	581	120	<80	<80	<80	<80
2	<80	<80	<80	<80	<80	<80	<80	0	0	-16	-43	-100	-98	-153	-143	-137	-226	----	180	<80	<80	<80	<80	<80
3	<80	<80	<80	<80	<80	<80	<80	0	0	0	0	-5	-12	-83	-202	-405	-566	----	348	<80	<80	<80	<80	<80
4	<80	<80	<80	<80	<80	<80	<80	0	0	-59	0	-59	-241	-256	-385	-569	----	3133	297	<80	<80	<80	<80	<80
5	<80	<80	<80	<80	<80	<80	<80	0	-9	0	-100	-304	-316	-273	-377	-780	----	8632	688	210	<80	<80	<80	<80
6	<80	<80	<80	<80	<80	<80	<80	-17	-17	-49	-124	-133	-123	-139	-84	-126	-337	----	158	<80	<80	<80	<80	<80
7	<80	<80	<80	<80	<80	<80	<80	-8	-4	-29	-91	-72	-74	-124	-166	-350	-270	----	8463	2595	1447	849	481	<80
8	<80	<80	<80	<80	<80	<80	<80	1372	-962	----	----	----	-802	-423	-257	-386	-321	-981	----	++++	4388	<80	<80	<80
9	<80	<80	<80	<80	<80	<80	<80	-24	-9	-49	-116	-160	-168	-91	-37	-497	-612	-261	----	----	239	<80	<80	<80
10	<80	<80	<80	<80	<80	<80	-150	-14	-7	-4	-27	-23	-61	-37	-48	-75	-135	-714	438	<80	751	<80	117	253
11	212	<80	208	<80	<80	<80	0	0	-5	-6	-4	0	-3	-22	-59	-75	-96	-750	495	116	<80	<80	<80	<80
12	<80	<80	<80	<80	<80	<80	<80	<80	----	++++	-882	-206	-136	-73	-46	-77	-94	-277	----	1091	117	<80	<80	<80
13	<80	<80	216	<80	<80	373	-651	-54	-6	-3	0	-3	-10	-12	-229	-244	-66	-18	<80	520	<80	<80	<80	<80
14	145	<80	<80	<80	<80	<80	<80	0	0	-6	0	0	-10	-63	-12	-30	-75	-669	280	<80	<80	<80	<80	<80
15	<80	<80	<80	<80	<80	<80	<80	-8	0	0	0	-3	-11	-37	-59	-77	-110	----	192	<80	<80	<80	<80	<80
16	<80	<80	<80	<80	<80	<80	<80	-14	-56	-7	-47	-120	-143	-188	-333	-256	-434	----	309	160	<80	<80	<80	<80
17	<80	<80	<80	<80	<80	<80	<80	-17	-8	-105	-334	-358	-330	----	-757	-873	-748	----	----	306	<80	<80	<80	<80
18	<80	<80	<80	<80	<80	<80	<80	-5	-59	-32	-65	-116	-167	-169	-254	-374	-427	----	420	142	<80	<80	1894	<80
19	<80	<80	426	760	<80	<80	<80	-194	-18	-107	-104	-118	-94	-54	-114	-92	-97	-132	412	210	<80	<80	<80	104
20	<80	<80	<80	<80	<80	<80	<80	0	-7	-5	-26	-129	-152	-149	-240	-342	-646	----	681	313	<80	<80	<80	<80
21	<80	<80	<80	<80	<80	<80	<80	-45	0	-126	-344	-366	-461	-387	-310	-394	----	++++	384	<80	<80	<80	<80	<80
22	<80	<80	<80	<80	<80	<80	<80	-254	-5	-147	-291	-289	-203	-253	-339	-386	-848	2205	212	<80	<80	<80	<80	<80
23	<80	<80	<80	<80	<80	<80	<80	-17	-12	0	-5	-13	-61	-132	-208	-339	-654	1578	231	<80	<80	<80	<80	<80
24	<80	<80	<80	<80	<80	<80	<80	-11	-8	-4	-4	-174	-152	-156	-236	-206	-477	1030	228	<80	<80	<80	<80	<80
25	<80	<80	<80	<80	<80	<80	<80	0	-20	-555	-353	-353	-260	-273	-302	-360	-830	1186	151	<80	<80	<80	<80	<80
26	<80	<80	<80	<80	<80	<80	<80	-222	-9	-17	-198	-184	-183	-237	-314	-511	----	2744	492	1124	605	1056	1032	256
27	<80	<80	<80	240	<80	538	9552	-75	-42	-9	-9	-5	-4	0	0	-7	-27	-80	<80	<80	<80	<80	<80	<80
28	<80	<80	<80	<80	<80	<80	<80	-12	0	-7	0	-198	-157	-132	-257	-342	-549	3212	273	<80	<80	<80	<80	<80
29	<80	<80	<80	<80	<80	<80	<80	-15	-27	-6	-4	-45	-82	-83	-97	-151	-218	601	82	<80	<80	<80	<80	<80
30	<80	<80	<80	<80	<80	<80	<80	0	-11	-4	0	-24	-39	-25	-123	-241	-645	1074	<80	<80	<80	<80	<80	<80
31	<80	<80	<80	<80	<80	<80	<80	-91	-6	-25	0	-93	-230	-319	-464	-428	----	1532	272	<80	<80	<80	<80	<80

PERCENT VALID HOURS FOR AUG, 1994 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR AUG, 1994 XXXX(DD,HH) = ++++(8,19) ++++(21,17) ++++(12, 9) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 — SEPT, 1994

MONIN-OBUKHOV LENGTH 3 TIMES 10 — MONIN3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<80	<80	<80	<80	<80	<80	<80	-18	-3	-10	-56	-264	-230	-310	-297	-448	----	1667	244	144	<80	<80	<80	<80
2	<80	<80	<80	<80	<80	<80	<80	-32	-18	-287	-405	-359	-350	-516	-732	-988	----	2046	358	112	<80	<80	<80	<80
3	<80	<80	<80	<80	<80	<80	<80	<80	-3	-2	0	-14	-117	-117	-215	-268	-496	826	<80	<80	<80	<80	<80	<80
4	<80	<80	<80	<80	<80	<80	<80	-23	-2	-19	-1	-33	-58	-47	-26	-95	-167	756	<80	<80	<80	<80	<80	<80
5	<80	<80	<80	<80	<80	<80	<80	0	-6	0	0	-11	-90	-68	-117	-168	-433	834	<80	<80	<80	<80	<80	<80
6	<80	<80	<80	<80	<80	<80	<80	-45	-28	0	-5	-83	-103	-90	-130	-193	-525	507	<80	<80	<80	<80	<80	<80
7	<80	<80	<80	<80	<80	<80	<80	-10	-5	-23	-13	-174	-186	-149	-235	-352	----	514	187	<80	<80	<80	<80	<80
8	<80	<80	<80	<80	<80	<80	<80	-43	-5	0	-166	-308	-327	-435	-582	----	----	1241	474	<80	<80	<80	<80	<80
9	<80	<80	<80	<80	<80	<80	<80	114	-29	-2	-82	-220	-196	-242	-242	-911	2172	813	655	733	577	475	393	560
10	557	414	485	421	435	289	963	----	----	----	-867	-720	-650	-899	----	----	----	2284	467	<80	<80	129	286	338
11	116	156	<80	<80	<80	<80	<80	811	-859	-511	-379	-543	-438	-503	-556	-701	----	1228	261	86	<80	<80	<80	<80
12	200	538	112	<80	<80	<80	<80	2119	-412	-480	-834	-702	-396	-408	-464	-570	----	4233	1460	182	<80	<80	<80	90
13	404	<80	<80	<80	<80	<80	<80	----	-12	-45	-54	-61	-116	-83	-141	-213	-685	4135	<80	<80	<80	<80	<80	<80
14	<80	<80	<80	<80	<80	<80	<80	-167	-251	-215	-36	0	-1	0	-8	0	-26	<80	<80	<80	<80	<80	<80	<80
15	<80	<80	<80	<80	<80	<80	<80	247	-149	-85	-5	0	0	-5	-2	-19	-32	<80	<80	<80	<80	<80	<80	<80
16	<80	<80	<80	<80	<80	<80	<80	238	-152	-219	-7	0	-14	0	-10	-2	<80	<80	<80	<80	<80	<80	<80	<80
17	<80	<80	<80	<80	<80	<80	<80	977	-163	-112	-87	-47	-19	-55	-30	-197	-762	263	<80	<80	<80	<80	<80	<80
18	<80	<80	<80	<80	<80	<80	<80	****	-245	-76	-18	-57	-1	-41	-38	-9	-76	165	<80	<80	<80	<80	<80	<80
19	<80	<80	<80	<80	****	<80	****	----	<80	****	****	****	****	----	-404	-460	----	----	1263	670	746	468	<80	<80
20	<80	<80	<80	<80	<80	<80	****	****	****	****	****	****	0	-7	-6	-446	----	1145	<80	<80	102	<80	<80	<80
21	<80	<80	<80	<80	<80	<80	<80	-618	-5	-8	-1	-17	-53	-17	-6	-7	-32	<80	<80	<80	<80	<80	<80	<80
22	<80	<80	<80	<80	<80	<80	<80	<80	0	0	-2	0	-7	-27	-11	-97	-577	<80	<80	<80	<80	<80	<80	<80
23	<80	<80	<80	<80	<80	<80	<80	-5	-9	0	-2	-11	-1	-16	-7	-12	<80	<80	<80	<80	<80	<80	<80	<80
24	<80	<80	<80	<80	<80	<80	<80	-10	-23	-1	0	0	-21	-124	-154	-658	----	118	<80	<80	<80	<80	<80	<80
25	<80	<80	<80	<80	<80	<80	<80	0	-2	-3	-2	-25	-42	-50	-117	-155	-784	270	124	<80	<80	<80	<80	<80
26	<80	<80	<80	<80	<80	<80	<80	<80	0	0	0	0	0	0	-10	-51	----	288	82	<80	<80	<80	<80	<80
27	<80	<80	<80	<80	<80	<80	<80	<80	-2	-20	-14	-28	-71	-72	-142	-717	----	687	<80	<80	<80	<80	<80	<80
28	<80	<80	<80	<80	<80	<80	<80	-17	-5	-18	0	-133	-302	-449	-769	----	++++	800	551	333	326	245	<80	178
29	278	<80	704	<80	<80	<80	----	131	-55	-222	-571	-851	----	975	1475	1276	673	213	326	<80	<80	<80	<80	<80
30	<80	<80	<80	<80	<80	<80	<80	<80	-4	-8	-2	-14	-15	-12	-3	-21	-19	<80	<80	<80	<80	<80	<80	<80

PERCENT VALID HOURS FOR SEPT, 1994 707*100/ 720= 98.2%

THREE HIGHEST VALUES FOR SEPT, 1994 XXXX(DD,HH) = ++++(28,16) 4233(12,17) 4135(13,17) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 — OCT, 1994

MONIN-OBUKHOV LENGTH 3 TIMES 10 — MONIN3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<80	<80	<80	<80	<80	<80	<80	<80	-17	-19	-2	0	-1	-6	-4	-6	-140	<80	<80	<80	<80	<80	<80	<80
2	<80	<80	80	<80	<80	<80	<80	<80	-9	0	-2	-37	-173	-214	-319	-556	1766	212	<80	<80	<80	<80	<80	<80
3	<80	<80	<80	<80	<80	<80	<80	307	1719	----	-908	-72	-5	-1	-54	-304	<80	<80	<80	<80	<80	<80	<80	875
4	759	392	<80	<80	<80	<80	<80	527	----	----	-714	-568	----	----	----	----	7273	890	<80	376	450	1252	124	514
5	579	<80	<80	513	550	1399	5497	----	-824	-644	-392	-272	-297	-229	-238	-186	6691	214	212	<80	<80	<80	<80	<80
6	<80	<80	<80	<80	<80	<80	<80	-14	-1	-6	-9	-2	-1	-1	-4	-78	271	<80	212	163	<80	<80	<80	<80
7	<80	<80	<80	<80	<80	<80	<80	<80	-19	0	-85	-121	-140	-138	-192	<10	1046	233	<80	<80	<80	<80	<80	<80
8	<80	180	<80	<80	<80	<80	<80	<80	-454	-56	-46	-17	-5	-1	-11	-2	2035	186	<80	<80	<80	<80	<80	<80
9	<80	<80	<80	<80	<80	<80	<80	<80	0	-36	-19	-6	0	-3	-19	-26	<80	<80	<80	<80	<80	<80	<80	<80
10	<80	<80	<80	<80	<80	<80	<80	-62	-635	0	-10	-11	-310	-324	-486	----	706	121	<80	<80	<80	<80	<80	<80
11	<80	<80	<80	<80	<80	<80	<80	<80	-9	-2	-10	-106	-207	-153	-179	-631	203	<80	<80	<80	<80	<80	<80	<80
12	<80	<80	<80	<80	<80	<80	<80	<80	-2	-3	-9	-63	-344	-786	----	----	1227	384	249	148	<80	368	756	580
13	816	355	<80	<80	<80	<80	<80	<80	-17	0	-2	-1	-2	-19	-21	-35	<80	<80	<80	<80	<80	<80	1698	133
14	157	<80	91	<80	<80	<80	<80	-166	-19	-3	-16	-53	-152	-196	-334	-957	5023	1940	1228	504	808	1259	++++	----
15	612	351	352	<80	<80	169	544	-646	-8	-95	-193	-257	-286	-228	-617	----	----	<80	<80	<80	<80	<80	269	<80
16	<80	<80	<80	<80	<80	<80	<80	<80	-2	-1	-22	-51	-91	-50	-121	-123	----	203	114	162	<80	<80	<80	<80
17	<80	<80	<80	<80	<80	<80	<80	<80	-3	-248	-2	0	-18	0	-14	-33	<80	<80	<80	<80	<80	<80	<80	<80
18	<80	<80	<80	<80	<80	<80	<80	-190	-5	-48	-4	-14	-57	-87	-123	-330	259	<80	<80	<80	<80	<80	<80	<80
19	<80	<80	<80	<80	<80	<80	<80	<80	-7	-65	-20	-16	0	0	-8	0	<80	<80	<80	<80	<80	<80	<80	<80
20	<80	<80	<80	<80	<80	<80	<80	<80	-1	0	-19	-2	-11	-62	-65	-171	<80	<80	<80	<80	<80	<80	<80	<80
21	<80	<80	<80	<80	<80	<80	<80	<80	-7	0	0	-1	0	-44	-134	----	136	<80	<80	<80	<80	<80	<80	<80
22	<80	<80	<80	<80	<80	<80	<80	<80	0	-5	0	-1	-13	-46	-309	1028	<80	<80	<80	<80	<80	<80	<80	<80
23	<80	<80	<80	<80	<80	<80	<80	<80	-44	0	-2	-10	-2	-6	-98	----	137	<80	<80	<80	<80	<80	<80	<80
24	<80	<80	<80	<80	<80	<80	<80	<80	0	-1	-3	-1	-3	0	-7	-108	<80	<80	<80	<80	<80	<80	<80	<80
25	<80	<80	<80	<80	<80	<80	<80	<80	-65	-1	0	0	-1	-3	-13	<80	<80	81	<80	<80	<80	<80	<80	<80
26	<80	<80	<80	<80	<80	<80	<80	<80	-40	-1	-1	-3	-6	0	-1	-611	93	<80	<80	<80	<80	<80	<80	<80
27	<80	<80	<80	<80	<80	<80	<80	<80	-13	-2	-1	-6	-13	-515	-352	2071	<80	<80	<80	<80	<80	<80	<80	<80
28	<80	<80	<80	<80	<80	<80	<80	<80	430	-7	-17	-1	0	-5	-59	891	145	<80	<80	<80	<80	<80	<80	<80
29	<80	<80	<80	<80	<80	<80	<80	<80	<80	-4	0	-13	0	-13	-43	-22	<80	119	<80	<80	<80	<80	<80	<80
30	<80	<80	<80	<80	<80	<80	<80	<80	----	-187	-109	-200	-175	-224	-263	835	105	131	<80	<80	<80	<80	<80	<80
31	<80	<80	<80	<80	<80	<80	<80	<80	-6	-1	-59	0	0	-6	-17	<80	<80	<80	<80	<80	<80	<80	<80	<80

PERCENT VALID HOURS FOR OCT, 1994 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR OCT, 1994 XXXX(DD,HH) = ++++(14,22) 7273(4,16) 6691(5,16). (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 NOV, 1994

MONIN-OBUKHOV LENGTH 3 TIMES 10 MONIN3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<80	<80	<80	<80	<80	<80	<80	<80	-22	-10	-2	-7	-342	----	----	1282	279	100	439	721	580	472	456	240
2	239	578	<80	186	246	625	600	755	480	1031	----	-386	-143	-318	-784	----	----	++++	1536	374	2127	----	----	----
3	----	----	-509	666	286	331	81	471	-207	-425	-352	-247	-308	-686	-530	----	1660	<80	<80	<80	<80	<80	<80	<80
4	<80	<80	96	<80	<80	<80	<80	<80	0	-30	-1	-1	0	-12	-67	-735	117	<80	<80	<80	<80	<80	<80	<80
5	<80	<80	<80	<80	<80	<80	<80	<80	-6	0	-15	-2	-8	-2	-59	-48	85	<80	<80	<80	<80	<80	<80	<80
6	<80	<80	<80	<80	<80	<80	<80	<80	-73	-7	0	0	-1	-13	-6	-115	<80	<80	<80	<80	<80	<80	<80	<80
7	<80	<80	<80	<80	<80	<80	<80	<80	<80	0	-2	-9	-1	-1	-129	-6	<80	<80	<80	<80	<80	<80	<80	<80
8	<80	<80	<80	<80	<80	<80	<80	<80	-2	-1	-7	-7	-37	-48	-199	----	301	<80	<80	<80	<80	<80	<80	<80
9	<80	<80	<80	<80	<80	<80	<80	<80	<80	-5	-1	-11	-119	-158	-644	----	619	<80	502	<80	<80	<80	<80	<80
10	<80	<80	<80	<80	<80	<80	<80	<80	++++	-23	-319	----	----	----	----	----	<80	777	343	245	352	<80	<80	<80
11	<80	<80	<80	<80	<80	<80	<80	<80	<80	-13	-3	-1	-8	-1	-41	-285	102	376	105	<80	<80	<80	<80	240
12	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-629	-256	-207	-288	-419	----	284	<80	<80	<80	<80	270	<80	<80
13	<80	<80	<80	<80	<80	<80	<80	<80	<80	-100	-458	-107	-104	-97	-210	----	392	306	<80	<80	<80	<80	<80	<80
14	<80	<80	<80	<80	<80	<80	<80	<80	<80	-5	-2	-2	-18	-29	-36	-175	223	<80	<80	<80	<80	<80	<80	<80
15	<80	<80	<80	<80	<80	<80	<80	<80	<80	-2	-2	0	-15	-9	-288	806	99	<80	<80	<80	<80	<80	<80	<80
16	<80	<80	<80	<80	<80	<80	<80	<80	866	-133	-17	-81	-172	-359	-538	----	2218	2724	232	861	634	330	<80	<80
17	<80	<80	<80	<80	<80	<80	<80	<80	<80	-291	-86	-331	-797	----	-967	----	86	<80	689	795	430	++++	3631	<80
18	467	325	567	1633	1478	512	<80	295	273	277	226	290	279	406	644	317	<80	<80	196	<80	<80	238	410	<80
19	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
20	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-5	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
21	<80	<80	<80	<80	<80	<80	<80	<80	-105	-439	-3	-1	-8	0	0	<80	<80	<80	<80	<80	<80	<80	<80	<80
22	<80	<80	<80	<80	<80	<80	<80	86	237	741	5722	----	----	----	----	1587	<80	108	<80	<80	<80	<80	<80	<80
23	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-12	-20	0	-64	<80	<80	<80	<80	<80	<80	<80	<80	<80
24	<80	<80	<80	<80	<80	<80	<80	<80	-7	<80	-4	<80	-325	-16	0	<80	<80	<80	<80	<80	<80	<80	<80	<80
25	<80	<80	<80	<80	<80	<80	<80	<80	787	0	82	++++	----	----	++++	4912	1936	1954	1785	1636	1382	1246	1489	1153
26	1036	538	472	1185	1407	985	208	570	5810	----	-759	-126	----	9839	1723	596	189	361	153	<80	<80	<80	<80	<80
27	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-8	0	-9	-54	-488	908	<80	<80	<80	<80	<80	<80	<80	<80
28	<80	<80	<80	<80	<80	<80	<80	<80	<80	-22	-7	-36	-9	-83	-125	<80	<80	<80	<80	<80	<80	<80	<80	<80
29	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	0	-4	-1	-4	0	----	<80	<80	<80	<80	<80	<80	<80	<80
30	<80	<80	<80	<80	<80	<80	<80	<80	<80	-6	-9	-1	-1	0	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80

PERCENT VALID HOURS FOR NOV, 1994 720*100/ 720=100.0%

THREE HIGHEST VALUES FOR NOV, 1994 XXXX(DD,HH) = ++++(10, 8) ++++(2,17) ++++(25,14) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 DEC, 1994

MONIN-OBUKHOV LENGTH 3 TIMES 10 MONIN3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	<80	<80	<80	<80	<80	<80	<80	<80	<80	-21	-7	-15	-9	-16	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
2	<80	<80	<80	<80	<80	<80	<80	<80	<80	-8	-4	-8	-24	-10	-27	<80	<80	<80	<80	<80	<80	<80	<80	<80
3	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-1	0	-13	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
4	<80	<80	<80	<80	<80	<80	<80	<80	<80	-93	-84	<80	<80	<80	<80	<80	<80	<80	<80	<80	125	<80	<80	<80
5	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-17	-6	-27	-165	-641	0	85	363	<80	<80	<80	<80	<80	<80
6	<80	<80	<80	<80	<80	<80	<80	<80	<80	-18	-8	-3	-2	-19	-233	623	180	<80	<80	<80	<80	<80	<80	<80
7	<80	<80	<80	<80	<80	<80	<80	<80	<80	-14	-33	-11	-27	-51	-470	125	129	<80	<80	<80	<80	<80	<80	<80
8	<80	<80	<80	<80	<80	<80	<80	95	494	----	-942	-647	-462	-435	-662	309	<80	****	****	****	****	****	****	****
9	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
11	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
12	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
15	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
18	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	<80	<80	<80	<80	<80	<80	<80	<80	<80
20	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-6	0	0	0	-123	<80	<80	<80	<80	<80	<80	<80	<80	<80
21	<80	<80	<80	<80	<80	<80	<80	<80	<80	-218	-1	0	-2	-2	-1	<80	<80	<80	<80	<80	<80	<80	<80	<80
22	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-134	<80	<80	878	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80
23	<80	184	939	443	<80	<80	<80	<80	<80	<80	-8	-1	0	-6	0	-101	238	1084	225	0	++++	1653	<80	<80
24	118	-23	<80	4931	-201	-75	<80	<80	-1	-2	-5	-7	-1	-18	0	-44	<80	491	<80	<80	----	-166	<80	1370
25	840	<80	-58	450	<80	898	<80	-40	-107	-103	-748	-251	-30	-151	-155	-165	----	6076	6998	2391	1040	2504	815	214
26	<80	509	604	<80	225	<80	<80	465	742	0	-673	-338	-275	-194	-132	742	285	338	<80	<80	211	<80	<80	<80
27	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-7	-1	0	-1	-2	-357	<80	<80	<80	<80	<80	<80	<80	<80
28	<80	<80	<80	<80	<80	<80	<80	<80	----	-13	-1	-4	-301	----	-504	----	----	----	2974	----	-816	-935	500	-371
29	2672	----	----	----	-51	-73	83	912	-53	-8	-3	0	-270	-649	-425	-335	----	-47	<80	<80	779	161	842	994
30	264	182	415	606	353	250	<80	-39	790	-513	-465	-135	-13	-1	-4	-3	-905	171	380	<80	<80	<80	<80	<80
31	<80	<80	<80	-74	-22	-70	<80	0	0	-20	-50	-6	-1	-3	-2	-47	<80	<80	<80	<80	<80	<80	<80	<80

PERCENT VALID HOURS FOR DEC, 1994 482*100/ 744= 64.8%

THREE HIGHEST VALUES FOR DEC, 1994 XXXX(DD,HH) = ++++(23,20) 6998(25,18) 6076(25,17) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) JAN, 1994

TEMPERATURE DIFFERENCE TIMES 100 DELT3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	189	247	227	209	247	198	185	126	26	6	3	-15	-9	21	3	135	232	259	230	416	269	219	299	287
2	211	281	265	263	265	178	210	174	28	7	11	17	0	-20	9	101	159	178	425	414	500	198	346	179
3	324	170	240	189	239	223	184	125	104	-16	-14	-24	-17	1	46	72	247	245	251	399	293	218	229	183
4	243	197	234	198	186	199	203	139	40	9	-8	-17	-7	-9	7	94	272	228	320	187	264	235	276	157
5	239	166	180	165	174	215	266	308	80	3	-8	-16	-21	-14	4	30	41	41	46	52	55	159	288	167
6	234	215	209	319	253	388	356	519	202	60	-17	-27	-32	-25	-9	19	101	205	202	118	200	292	193	312
7	227	225	258	258	225	242	220	82	34	-21	-24	-13	-22	-18	-2	61	185	220	302	150	230	304	305	456
8	191	307	198	260	124	180	186	182	-17	-18	-18	-27	-27	-14	-1	55	213	331	234	426	452	344	134	248
9	202	174	194	223	150	172	241	197	6	40	-23	-24	-10	-3	-16	1	88	204	194	366	244	282	194	214
10	107	244	181	150	143	37	35	91	55	15	-12	-25	-25	-24	-4	33	208	268	186	226	376	374	369	207
11	262	209	388	269	159	174	197	180	-2	-15	-31	-31	-24	-31	-11	49	120	135	172	147	244	192	89	157
12	141	75	96	48	145	109	119	156	77	8	-19	-25	-30	-25	0	51	131	165	138	125	171	292	335	328
13	264	290	240	290	292	274	197	173	44	14	-12	-14	-7	-19	3	46	111	205	183	63	53	118	158	177
14	242	512	528	435	353	579	492	565	191	31	-18	-23	-18	-21	-17	22	76	60	215	311	403	434	353	231
15	278	304	203	207	255	86	185	240	76	15	21	-15	-7	-16	21	37	159	153	288	444	263	476	247	426
16	199	337	380	289	197	177	236	158	30	-14	-18	-4	-12	-1	16	60	195	196	165	223	244	569	438	288
17	388	283	349	347	294	342	379	256	95	8	-18	-8	-14	-12	-2	32	130	227	554	535	447	275	555	335
18	280	314	381	276	316	344	389	129	84	15	-7	9	-20	-8	10	39	151	453	174	499	510	254	435	323
19	307	422	433	183	326	217	265	165	96	-6	-16	-16	-24	-4	28	119	287	272	457	491	447	616	191	297
20	238	213	319	195	251	219	298	151	65	15	-13	-33	-14	-27	1	13	180	452	402	311	353	424	274	359
21	214	259	278	276	221	278	235	138	116	-7	2	-21	-12	-30	15	65	264	340	280	429	233	315	281	360
22	524	431	284	276	288	278	263	199	111	6	-6	-16	-13	-19	0	35	122	343	190	279	290	292	423	261
23	245	295	311	178	183	208	62	12	-4	-14	-20	-12	-18	57	38	37	39	188	209	271	238	289	319	251
24	269	385	328	308	378	256	251	204	85	-12	-25	-10	-31	-26	10	43	53	110	188	241	211	77	62	51
25	84	51	32	7	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
27	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
28	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
29	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
31	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****

PERCENT VALID HOURS FOR JAN, 1994 580*100/ 744= 78.0%

THREE HIGHEST VALUES FOR JAN, 1994 XXXX(DD,HH) = 616(19,21) 579(14, 5) 569(16,21) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) FEB, 1994

TEMPERATURE DIFFERENCE TIMES 100 DELT3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
2	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
3	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
4	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
5	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
6	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
7	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
8	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
9	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
11	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
12	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	----	229	140	132	223	214	120
13	168	149	114	89	134	109	79	13	5	4	9	-9	-23	-21	-17	1	37	100	236	275	258	220	156	182
14	161	136	186	199	107	163	76	49	-4	-15	-15	9	-14	-3	22	39	140	241	311	251	395	209	221	260
15	221	206	165	130	193	185	174	89	35	-5	-10	-20	-12	-11	-18	5	36	76	197	121	238	168	147	136
16	143	122	24	21	20	16	4	1	-5	-11	-12	-22	-19	-42	-14	-2	13	22	31	98	125	140	160	130
17	65	96	78	53	49	72	62	17	-3	-14	-23	-34	-28	-22	-17	-21	11	121	117	146	187	149	209	188
18	205	164	41	124	86	87	69	10	-16	-18	-19	-33	-38	-44	-36	-17	9	87	124	49	128	152	181	98
19	136	122	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	174	304	488	382	295	440
21	375	417	463	423	383	281	235	306	135	-4	-21	-23	-32	-36	-40	-17	24	94	137	91	353	335	274	533
22	418	508	812	748	629	340	159	146	56	-6	-32	-38	-44	-46	-37	-23	14	105	174	198	250	133	306	334
23	136	123	115	165	155	145	273	121	34	-26	-29	-28	-19	-40	-34	-22	-15	64	181	303	240	205	291	260
24	92	182	107	79	155	120	147	46	6	-16	-32	-33	-30	-47	-33	-21	28	192	195	242	281	196	270	240
25	149	134	178	109	175	194	260	26	-7	-11	-17	-29	-28	-26	-29	-20	29	177	143	467	361	320	256	238
26	201	163	188	193	145	132	79	52	10	-5	-24	-22	-27	-43	-29	0	28	58	130	178	224	140	169	189
27	208	263	296	195	318	239	210	42	3	-22	-29	-29	-28	-13	4	45	69	80	112	83	47	78	110	133
28	71	113	169	157	149	201	124	104	26	-26	-47	-59	-46	-53	-44	-25	15	80	199	134	177	86	92	104

PERCENT VALID HOURS FOR FEB, 1994 351*100/ 672= 52.2%

THREE HIGHEST VALUES FOR FEB, 1994 XXXX(DD,HH) = 812(22, 2) 748(22, 3) 629(22, 4) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) MAR, 1994

TEMPERATURE DIFFERENCE TIMES 100 DELT3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	109	91	113	222	358	175	112	57	8	-31	-26	-71	-74	-57	-49	-38	-14	95	335	326	304	387	328	294
2	210	202	228	228	212	223	185	93	15	-17	-40	-27	-42	-30	-30	-21	-7	89	196	455	227	225	86	264
3	147	237	265	222	260	120	137	80	-8	-20	-26	-34	-34	-39	-45	-30	5	175	378	364	164	287	406	215
4	154	159	262	202	179	196	131	36	-9	-22	-26	-34	-46	-45	-42	-26	7	184	194	358	419	264	332	410
5	247	259	256	163	140	177	131	73	-10	-31	-18	-16	-45	-35	-23	-10	26	152	177	200	140	251	144	82
6	106	163	180	163	153	252	99	80	-5	-25	-13	-35	-53	-31	-20	-21	24	235	211	302	****	84	79	48
7	110	231	306	271	91	266	294	258	55	-25	-32	-43	-46	-51	-50	-32	12	45	155	160	238	275	312	463
8	302	207	200	276	440	423	389	210	-5	-32	-34	-46	-54	-47	-51	-31	-8	71	333	316	368	240	398	366
9	304	457	277	292	241	273	247	66	3	-25	-23	-29	-35	-35	-34	-26	-13	124	344	354	361	289	229	198
10	300	228	270	137	164	223	88	48	-23	-23	-24	-40	-73	-77	-62	-29	8	34	137	238	266	288	180	372
11	164	263	303	187	36	53	60	40	10	-40	-53	-42	-56	-81	-51	-30	-13	5	22	19	27	40	47	31
12	43	31	75	140	141	108	88	47	-21	-51	-63	-85	-82	-76	-80	-43	-9	48	97	179	383	394	119	91
13	168	59	33	78	104	195	95	27	-16	-43	-55	-48	-48	-47	-60	-40	-9	132	188	343	482	376	249	444
14	273	183	250	243	276	158	154	-12	-17	-28	-37	-44	-41	-39	-28	-29	-17	65	229	181	145	362	369	176
15	341	148	208	232	227	242	160	18	-9	-16	-20	-38	-40	-66	-50	-26	5	92	168	193	399	317	245	210
16	228	339	389	345	489	389	316	225	0	-41	-70	-87	-91	-87	-81	-59	-11	59	195	307	156	385	298	425
17	225	330	310	263	213	205	230	98	-26	-41	-42	-55	-47	-48	-42	-38	-20	76	267	231	280	180	311	199
18	237	248	164	69	51	106	51	10	-10	-38	-84	-95	-92	-98	-83	-59	-21	20	43	97	57	39	48	70
19	74	81	63	63	78	46	29	13	-5	-29	-62	-50	-77	-59	-63	-58	-24	-2	-1	0	11	-10	-9	-2
20	39	22	41	133	216	294	234	40	-23	-35	-57	-56	-53	-45	-66	-42	-28	12	147	207	149	136	256	251
21	284	276	225	203	320	84	91	-5	-27	-30	-46	-82	-92	-97	-83	-66	-34	12	61	74	89	298	211	304
22	339	305	200	233	183	162	58	24	-30	-62	-76	-88	-94	-88	-78	-56	-26	19	85	102	76	112	125	256
23	292	267	384	72	222	210	96	10	-25	-38	-33	-34	-43	-35	-43	-26	-20	3	98	132	171	222	174	219
24	154	148	109	180	86	86	57	2	-14	-28	-31	-26	-44	-54	-31	-19	-14	10	158	201	135	136	84	95
25	103	56	100	88	11	23	5	5	-23	-21	-43	-63	-42	-53	-47	-36	-25	-8	13	36	52	62	54	106
26	55	76	209	203	111	168	129	0	-22	-25	-61	-63	-69	-59	-52	-35	-2	54	175	235	201	178	209	213
27	374	141	215	217	166	377	249	234	-16	-39	-53	-62	-62	-66	-57	-38	0	96	239	357	256	238	181	197
28	305	383	341	294	306	303	167	17	-15	-20	-37	-34	-52	-64	-57	-29	22	96	198	342	266	163	168	322
29	321	365	277	327	226	233	290	4	-24	-24	-27	-33	-35	-37	-36	-25	-11	116	147	146	239	251	181	165
30	189	216	115	160	180	232	137	88	8	-30	-40	-48	-56	-68	-54	-43	-28	11	58	94	279	329	96	218
31	118	224	383	185	221	220	93	-10	-14	-30	-31	-76	-85	-82	-69	-47	-16	42	219	233	446	274	153	126

PERCENT VALID HOURS FOR MAR, 1994 743*100/ 744= 99.9%

THREE HIGHEST VALUES FOR MAR, 1994 XXXX(DD,HH) = 489(16, 4) 482(13,20) 463(7,23) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) APR, 1994

TEMPERATURE DIFFERENCE TIMES 100 DELT3

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	338	448	309	212	320	266	65	40	-10	-47	-63	-66	-59	-48	-46	-40	-24	-2	200	171	212	152	324	172
2	242	223	156	327	491	246	189	3	-31	-31	-35	-42	-34	-34	-39	-44	-23	36	72	158	160	315	157	79
3	146	159	281	156	286	304	266	107	-30	-61	-82	-98	-81	-79	-88	-52	-27	6	29	51	33	23	57	68
4	186	260	163	145	240	162	137	-1	-28	-50	-51	-59	-77	-90	-71	-52	-26	9	51	62	97	76	236	290
5	234	162	200	331	381	305	124	-97	-325	****	****	****	****	****	-78	-60	-43	15	169	307	275	102	155	156
6	238	259	121	277	156	106	43	-26	-30	-29	-34	-43	-58	-53	-76	-70	-48	-8	77	105	49	37	38	76
7	62	116	141	371	298	170	96	-9	-36	-56	-65	-60	-72	-67	-72	-65	-46	5	173	194	87	127	276	165
8	167	122	228	110	118	24	13	-35	-53	-63	-71	-75	-85	-81	-69	-54	-45	-24	-1	21	15	-4	-11	-13
9	28	11	13	77	27	-3	-7	-8	82	-18	-44	-49	-35	-45	-46	-33	-22	-1	58	78	36	46	88	192
10	219	143	145	165	213	250	139	11	-37	-69	-77	-82	-96	-106	-97	-78	-47	-10	23	26	22	55	39	38
11	53	92	154	106	85	265	166	-25	-40	-54	-54	-66	-68	-70	-73	-56	-38	-24	77	204	299	170	331	166
12	211	244	249	206	109	200	11	-31	-35	-38	-36	-58	-61	-65	-59	-47	-40	-1	118	244	358	184	113	325
13	181	164	280	102	229	84	29	-31	-35	-48	-59	-72	-81	-80	-79	-69	-43	14	191	205	264	357	123	210
14	267	290	349	244	282	245	13	-2	-23	-34	-41	-49	-71	-77	-62	-59	-41	-6	149	260	192	168	74	82
15	64	99	147	94	114	70	42	-26	-56	-64	-85	-75	-79	-75	-62	-55	-44	-18	108	205	356	325	130	98
16	108	267	210	177	275	197	5	-19	-34	-54	-48	-68	-81	-52	-69	-52	-21	23	114	202	265	203	121	347
17	194	142	266	211	242	147	51	-20	-38	-34	-44	-59	-64	-73	-67	-47	-13	14	60	200	177	280	142	175
18	182	160	82	158	162	132	-1	-15	-34	-45	-45	-56	-62	-56	-66	-51	-41	-6	145	265	258	227	398	470
19	255	204	206	300	100	138	8	-33	-42	-36	-34	-53	-76	-78	-73	-64	-42	0	194	294	220	300	313	463
20	299	105	167	163	232	151	45	-28	-32	-36	-54	-62	-92	-93	-93	-68	-46	7	144	176	532	200	139	342
21	272	283	272	181	227	277	84	-32	-33	-51	-82	-118	-125	-111	-95	-73	-50	-11	49	128	161	161	141	170
22	199	113	95	104	199	184	101	-40	-47	-66	-84	-89	-120	-124	-104	-83	-57	-16	45	53	65	55	42	31
23	29	46	42	42	25	30	-6	-45	-71	-97	-115	-122	-113	-114	-102	-70	-48	-30	-17	-8	-5	-6	-5	-3
24	-2	3	6	6	30	37	-26	-58	-89	-113	-129	-119	-114	-108	-105	-77	-75	-45	-41	-30	39	26	119	142
25	44	50	66	51	38	22	-39	-57	-92	-106	-100	-120	-93	-65	-31	-43	-10	4	14	13	101	116	122	104
26	124	73	112	77	95	80	-23	-40	-40	-61	-64	-87	-51	-14	-20	-37	-31	-27	14	14	11	13	0	-3
27	9	19	-5	1	5	5	-29	-42	-51	-67	-68	-63	-61	-80	-86	-74	-55	-31	-16	-3	31	-7	21	-5
28	-12	10	36	22	10	62	-13	-32	-38	-43	-20	-44	-63	-87	-84	-45	-41	-15	9	34	126	134	101	150
29	265	287	229	279	219	231	-21	-29	-38	-50	-66	-90	-107	-66	-67	-60	-50	-25	43	190	255	188	211	182
30	113	160	90	82	84	128	-4	-33	-36	-38	-51	-62	-70	-88	-65	-38	-36	-8	48	71	105	189	169	259

PERCENT VALID HOURS FOR APR, 1994 715*100/ 720= 99.3%

THREE HIGHEST VALUES FOR APR, 1994 XXXX(DD,HH) = 532(20,20) 491(2, 4) 470(18,23) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) MAY, 1994

TEMPERATURE DIFFERENCE TIMES 100 DELT3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	209	155	137	215	356	319	73	-31	-33	-49	-64	-63	-58	-77	-55	-52	-45	-32	32	274	246	198	334	187
2	384	125	175	233	162	99	57	-34	-43	-36	-52	-72	-83	-92	-78	-80	-58	-23	85	191	385	366	226	260
3	262	372	228	185	286	173	1	-29	-45	-49	-54	-63	-74	-90	-81	-64	-50	-24	121	213	336	309	161	317
4	258	160	188	184	183	193	14	-43	-52	-33	-52	-90	-91	-93	-108	-92	-62	-24	29	132	255	235	134	102
5	72	163	246	107	172	130	48	-16	-37	-70	-113	-122	-128	-115	-98	-80	-50	-14	56	53	90	77	19	37
6	31	48	123	82	256	215	-11	-64	-94	-113	-121	-96	-128	-131	-116	-98	-66	-39	-13	-17	-37	-33	-5	14
7	57	66	61	144	108	-14	-26	-30	-47	-57	-68	-104	-104	-113	-88	-70	-53	-43	-29	-21	-17	-14	-12	-9
8	5	2	54	41	63	18	-21	-49	-69	-61	-75	-98	-84	-64	-82	-51	-40	-31	-11	97	106	116	213	155
9	131	175	224	147	92	71	-2	4	26	-22	-50	-52	-60	-66	-62	-67	-54	-26	-14	33	189	102	169	245
10	229	167	156	186	202	177	-16	-35	-30	-34	-50	-56	-80	-93	-100	-84	-50	-28	17	67	33	113	111	134
11	172	53	171	206	326	195	-19	-33	-36	-44	-66	-64	-92	-81	-70	-15	-60	-24	-7	27	53	112	118	78
12	99	156	136	117	230	93	-12	-38	-39	-50	-68	-86	-106	-86	-93	-93	-70	-29	-2	-14	6	28	63	42
13	31	24	61	-4	66	31	-20	-34	-35	-39	-61	-67	-71	-60	-60	-101	-38	-9	13	114	132	190	138	294
14	181	456	139	267	147	110	-6	-36	-44	-53	-56	-72	-120	-114	-111	-90	-61	-23	34	128	112	40	24	28
15	46	66	142	199	255	254	76	-43	-70	-91	-115	-125	-108	-118	-105	-78	-47	-15	13	40	50	47	42	59
16	47	53	74	36	15	6	-34	-56	-88	-110	-131	-136	-131	-133	-118	-90	-60	-33	-12	-18	-20	8	68	36
17	104	191	219	224	114	63	-26	-41	-47	-62	-123	-146	-139	-133	-106	-88	-79	-45	-9	13	3	3	5	2
18	-7	7	5	39	32	4	-30	-45	-68	-113	-130	-139	-146	-137	-126	-99	-75	-46	-6	36	36	8	12	2
19	94	129	175	179	245	147	-31	-45	-54	-68	-79	-66	-82	-95	-89	-83	-71	-55	-34	11	235	192	117	184
20	323	315	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
21	****	246	165	147	139	114	-29	-20	-40	-40	-85	-83	-81	-91	-77	-77	-64	-30	43	222	299	411	241	354
22	305	206	349	273	329	169	-13	-29	-32	-36	-60	-88	-90	-87	-86	-76	-55	-29	65	258	325	256	229	278
23	383	235	174	221	166	187	-11	-41	-46	-40	-51	-72	-81	-99	-69	-70	-60	-44	-24	70	298	226	262	297
24	267	211	155	182	153	89	3	-37	-43	-48	-56	-84	-70	-77	-80	-74	-48	-28	6	20	98	144	100	96
25	25	47	64	124	106	46	-23	-34	-36	-61	-72	-83	-109	-109	-90	-91	-61	-48	-26	-9	53	25	90	124
26	121	139	120	115	131	110	5	-35	-62	-89	-78	-84	-90	-92	-116	-107	-75	-41	-26	-2	20	27	41	35
27	260	194	166	92	253	137	-17	-42	-61	-101	-121	-126	-90	-104	-111	-74	-77	-33	14	104	164	282	135	147
28	193	211	186	227	232	203	33	-32	-55	-65	-90	-94	-102	-106	-101	-81	-68	-31	88	211	411	289	199	312
29	233	446	209	276	232	167	10	-30	-45	-36	-58	-69	-93	-94	-103	-84	-56	-9	90	152	360	565	263	339
30	533	468	291	265	335	235	-22	-26	-44	-47	-55	-66	-117	-91	-52	-58	-31	-12	-2	-11	49	32	48	29
31	8	27	24	26	29	10	-25	-36	-43	-56	-69	-72	-71	-74	-54	-53	-48	-37	47	223	88	171	99	235

PERCENT VALID HOURS FOR MAY, 1994 721*100/ 744= 96.9%

THREE HIGHEST VALUES FOR MAY, 1994 XXXX(DD,HH) = 565(29,21) 533(30, 0) 468(30, 1) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) JUNE, 1994

TEMPERATURE DIFFERENCE TIMES 100 DELT3

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	93	145	185	85	152	132	0	-38	-41	-46	-49	-49	-52	-77	-70	-55	-49	-33	14	247	287	235	203	457
2	343	247	200	235	244	70	-3	-23	-13	-17	-39	-68	****	-72	-68	-79	-58	-25	37	142	64	150	393	222
3	114	135	219	258	208	122	-10	-39	-37	-68	-96	-109	-86	-86	-66	-73	-58	-14	35	115	196	380	576	320
4	318	285	698	435	418	313	23	-16	-55	-74	-80	-77	-81	-98	-93	-81	-48	-17	50	172	229	380	177	216
5	308	277	430	300	212	137	-19	-28	-42	-49	-72	-112	-130	-124	-110	-86	-56	-26	21	76	82	104	57	70
6	67	23	30	95	48	16	-29	-55	-80	-92	-116	-116	-112	-96	-103	-85	-60	-27	7	40	65	42	54	174
7	187	170	255	310	298	257	29	-33	-28	-12	-60	-85	-78	-84	-73	-71	-62	-37	43	269	198	267	312	408
8	277	380	304	501	465	62	-10	-42	-58	-59	-64	-76	-74	-75	-58	-62	-39	-32	44	234	226	376	255	518
9	234	332	222	249	293	152	7	-39	-39	-36	-54	-59	-55	-65	-68	-60	-48	-29	67	309	247	272	307	311
10	305	361	211	210	309	144	5	-37	-47	-43	-46	-57	-79	-77	-66	-70	-50	-24	65	253	388	313	254	494
11	368	400	355	202	359	91	-6	-32	-33	-46	-70	-90	-103	-81	-93	-82	-61	-25	29	127	174	70	366	453
12	318	307	293	363	166	129	0	-24	-33	-55	-92	-85	-107	-116	-109	-91	-62	-26	35	182	252	375	448	410
13	203	208	233	202	320	153	35	-29	-41	-72	-116	-118	-123	-101	-86	-73	-39	-27	17	65	69	99	51	164
14	283	238	122	192	166	70	-22	-55	-87	-115	-132	-137	-129	-126	-117	-96	-65	-34	0	19	30	31	33	18
15	43	73	109	68	56	16	-28	-55	-93	-114	-128	-127	-131	-116	-110	-84	-59	-28	8	46	56	92	91	102
16	67	128	196	278	358	204	0	-39	-56	-72	-103	-130	-136	-129	-124	-92	-62	-26	32	136	366	469	169	559
17	269	182	402	245	225	100	12	-30	-50	-72	-113	-125	-132	-125	-107	-84	-55	-22	24	74	201	216	302	331
18	212	259	235	225	347	149	-7	-39	-46	-55	-89	-121	-130	-124	-110	-86	-59	-27	29	81	237	437	294	452
19	441	228	252	225	248	180	-24	-33	-34	-47	-64	-82	-87	-106	-101	-89	-66	-30	42	166	441	306	223	550
20	297	396	259	354	283	194	0	-29	-38	-54	-78	-120	-115	-119	-107	-96	-86	-57	5	104	169	497	155	16
21	12	56	135	136	88	20	36	-1	-72	-79	-91	-89	-112	-107	-104	-85	-62	-33	27	219	342	285	215	304
22	300	331	390	320	238	150	-20	-32	-48	-64	-102	-119	-127	-119	-105	-95	-62	-29	32	234	413	529	448	469
23	357	513	420	202	185	162	2	-31	-36	-62	-95	-117	-110	-115	-98	-84	-55	-13	76	183	584	528	332	376
24	402	554	355	377	426	223	52	-30	-49	-54	-59	-107	-114	-107	-98	-82	-54	-3	50	163	322	469	292	377
25	458	393	307	324	459	171	17	-22	-37	-90	-111	-117	-115	-116	-102	-84	-52	-18	26	126	181	150	141	105
26	96	60	131	111	108	55	2	-39	-72	-96	-92	-106	-123	-118	-109	-88	-60	-27	9	36	60	81	230	170
27	183	173	408	222	353	301	11	-26	-39	-72	-94	-97	-103	-107	-100	-79	-48	-37	16	36	60	179	146	314
28	274	263	386	274	334	60	-11	-28	-33	-50	-64	-90	-114	-114	-102	-81	-58	-36	24	160	186	379	203	201
29	373	320	468	205	358	247	17	-28	-45	-42	-60	-92	-111	-105	-90	-86	-59	-31	45	243	359	149	139	145
30	275	188	201	449	241	192	29	-29	-25	-37	-64	-104	-113	-110	-87	-82	-55	-6	35	78	101	133	111	105

PERCENT VALID HOURS FOR JUNE, 1994 719*100/ 720= 99.9%

THREE HIGHEST VALUES FOR JUNE, 1994 XXXX(DD,HH) = 698(4, 2) 584(23,20) 576(3,22) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) JULY, 1994

TEMPERATURE DIFFERENCE TIMES 100 DELT3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	164	251	339	262	394	135	31	-13	-45	-59	-84	-90	-99	-78	-81	-63	-34	-14	18	56	66	113	167	276
2	308	280	272	272	259	156	73	-29	-77	-97	-103	-116	-115	-117	-99	-79	-60	-27	15	51	85	89	144	221
3	345	438	234	304	360	119	42	-37	-62	-73	-80	-86	-96	-118	-107	-92	-68	-35	38	214	246	535	333	412
4	399	288	219	386	329	215	10	-35	-57	-67	-82	-94	-104	-109	-116	-97	-71	-40	5	64	112	132	131	303
5	185	317	286	311	255	135	11	-44	-55	-74	-81	-117	-138	-130	-118	-93	-65	-33	19	76	101	106	68	91
6	181	124	263	364	259	451	30	-46	-77	-67	-79	-75	-75	-93	-69	-64	-54	-31	15	324	183	199	347	334
7	333	366	****	431	497	448	83	-33	-43	-48	-68	-75	-76	-79	-79	-65	-52	-33	48	295	397	386	329	275
8	220	454	460	299	421	228	19	-25	-47	-39	-47	-66	-84	-76	-80	-53	-53	-37	52	161	349	326	380	395
9	370	285	337	337	367	194	41	-46	-39	-37	-67	-105	-121	-118	-102	-82	-63	-26	41	185	274	229	498	650
10	373	216	254	439	226	239	14	-39	-43	-67	-102	-113	-108	-111	-100	-80	-58	-29	32	143	227	414	413	403
11	393	399	457	289	289	132	22	-23	-46	-62	-81	-75	-77	-82	-89	-67	-62	-32	63	284	277	541	313	280
12	231	382	355	272	379	264	4	-27	-49	-44	-60	-75	-82	-85	-94	-86	-61	-28	49	226	223	263	437	538
13	400	368	456	387	376	308	25	-45	-43	-55	-77	-98	-96	-111	-103	-87	-62	-23	47	161	184	541	583	362
14	267	293	391	205	301	133	78	-25	-34	-41	-56	-98	-99	-107	-108	-84	-59	-27	23	137	168	270	559	465
15	346	248	188	278	266	175	29	-28	-50	-48	-56	-83	-100	-96	-108	-96	-69	-29	17	93	147	421	451	257
16	236	282	319	322	265	179	-26	-35	-31	-44	-73	-102	-110	-101	-84	-73	-51	-19	57	104	179	357	324	238
17	203	299	267	219	92	115	3	-43	-50	-48	-64	-58	-76	-69	-72	-44	-43	-25	5	48	60	59	142	118
18	92	69	115	118	130	193	78	-43	-62	-78	-89	-101	-110	-112	-111	-86	-67	-40	-8	-35	-33	-32	-14	-9
19	20	8	59	112	17	-1	-26	-31	-38	-49	-63	-83	-87	-91	-87	-66	-74	-54	-21	82	200	60	26	88
20	95	94	102	136	137	52	-23	-36	-26	-32	-42	-61	-66	-60	-49	-51	-39	-7	66	139	189	62	113	155
21	185	176	137	151	236	182	2	-31	-36	-81	-104	-101	-87	-89	-69	-34	88	90	132	248	150	189	182	265
22	212	108	181	214	178	88	-22	-31	-50	-51	-82	-111	-107	-99	-95	-87	-63	-36	14	79	135	318	258	105
23	181	189	296	307	94	99	-10	-25	-41	-44	-105	-132	-123	-115	-107	-95	-73	-44	2	115	166	410	309	208
24	199	163	235	259	113	100	10	-42	-41	-47	-93	-96	-114	-118	-105	-83	-69	-35	30	184	341	543	508	387
25	395	289	203	265	326	172	0	-27	-24	-42	-62	-97	-95	-92	-87	-68	-34	-10	125	358	221	367	299	244
26	367	388	431	218	239	148	2	-24	-20	-34	-45	-64	-85	-93	-66	-66	-46	-4	60	166	454	232	264	408
27	346	260	364	261	199	199	62	-27	-34	-42	-50	-92	-108	-100	-96	-84	-62	-31	44	165	350	562	170	366
28	356	204	388	272	263	201	21	-20	-30	-35	-51	-86	-98	-107	-104	-92	-66	-34	38	161	180	438	431	198
29	202	347	227	262	292	202	70	-36	-38	-57	-91	-116	-94	-93	-93	-96	-78	-40	1	68	110	63	35	120
30	182	302	135	174	129	175	17	-43	-51	-63	-97	-124	-133	-119	-109	-94	-77	-40	18	120	151	203	158	323
31	249	168	201	195	241	274	78	-23	-30	-51	-90	-111	-114	-116	-112	-91	-65	-30	55	192	256	172	370	515

PERCENT VALID HOURS FOR JULY, 1994 743*100/ 744= 99.9%

THREE HIGHEST VALUES FOR JULY, 1994 XXXX(DD,HH) = 650(9,23) 583(13,22) 562(27,21) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) AUG, 1994

TEMPERATURE DIFFERENCE TIMES 100 DELT3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	345	248	268	248	382	221	-8	-34	-31	-55	-107	-115	-115	-115	-109	-93	-68	-29	37	112	144	131	469	389
2	188	199	272	236	259	221	24	-25	-37	-58	-80	-102	-104	-109	-95	-79	-53	-20	93	275	509	379	461	382
3	231	276	243	297	226	186	34	-33	-38	-50	-51	-50	-76	-92	-104	-90	-60	-18	43	149	261	380	342	361
4	262	233	335	282	294	217	76	-37	-32	-25	-47	-90	-122	-116	-106	-86	-52	-4	101	131	134	457	410	650
5	215	256	229	211	200	298	0	-37	-33	-46	-78	-115	-111	-110	-95	-66	-41	-8	37	173	333	436	655	328
6	324	301	218	353	314	452	161	-24	-55	-73	-85	-101	-109	-120	-92	-66	-58	-21	115	292	242	378	576	568
7	291	302	296	302	249	178	40	-36	-53	-69	-85	-105	-103	-108	-103	-89	-69	-32	-9	4	13	34	31	142
8	318	250	151	110	125	181	175	-4	-40	-41	-39	-41	-51	-75	-83	-92	-69	-44	-24	-13	-4	-2	111	194
9	175	105	202	172	123	145	18	-20	-33	-71	-112	-125	-120	-110	-91	-117	-63	-47	-19	-16	9	29	20	23
10	41	52	51	76	124	175	-18	-26	-39	-63	-73	-83	-119	-91	-73	-74	-62	-34	22	101	10	17	11	9
11	5	16	41	53	96	29	-19	-33	-52	-44	-54	-64	-81	-87	-90	-74	-61	-38	31	113	197	341	248	229
12	345	179	114	69	86	111	60	67	-42	-8	-72	-69	-121	-103	-77	-72	-62	-46	-24	10	11	59	86	41
13	59	28	17	66	75	25	-26	-43	-44	-65	-66	-75	-89	-75	-64	-72	-57	-23	10	0	11	62	30	68
14	87	81	27	82	190	159	-12	-32	-49	-43	-61	-68	-86	-86	-75	-68	-52	-27	51	134	47	171	249	178
15	211	170	179	148	236	135	136	-36	-35	-43	-58	-68	-82	-92	-92	-73	-55	-26	104	261	211	267	303	345
16	223	258	351	226	199	217	81	-26	-26	-38	-75	-111	-117	-111	-107	-85	-56	-19	56	180	224	335	83	136
17	210	241	311	338	154	237	120	-24	-36	-75	-120	-127	-121	-40	-91	-80	-67	-40	-14	12	64	155	98	79
18	134	185	154	68	96	76	34	-46	-61	-63	-82	-112	-121	-120	-99	-72	-56	-25	29	64	115	80	7	22
19	53	37	42	2	29	94	35	-21	-54	-94	-98	-110	-107	-96	-91	-84	-60	-36	-7	17	7	51	76	59
20	76	128	205	189	79	162	2	-36	-37	-49	-75	-103	-110	-112	-105	-90	-61	-22	37	85	205	158	73	453
21	351	139	250	175	228	182	94	-29	-40	-83	-116	-124	-126	-118	-97	-79	-50	-11	47	140	161	240	215	219
22	126	128	12	107	205	266	245	-24	-48	-72	-117	-118	-120	-115	-103	-80	-49	-2	109	90	219	611	312	328
23	572	260	289	282	337	300	28	-23	-28	-38	-50	-69	-87	-100	-100	-78	-47	5	117	117	582	296	297	385
24	429	324	285	270	270	183	76	-28	-34	-53	-63	-117	-109	-108	-90	-70	-44	1	119	274	268	369	355	326
25	419	384	369	371	321	177	75	-23	-47	-68	-99	-113	-113	-109	-100	-74	-45	5	148	223	530	610	412	254
26	275	273	259	220	235	197	70	-20	-33	-56	-104	-111	-112	-106	-83	-65	-39	1	44	12	10	7	7	44
27	49	20	38	29	3	-6	-12	-22	-29	-32	-32	-50	-61	-42	-54	-41	-40	-16	58	96	299	325	81	159
28	213	221	223	161	154	149	36	-27	-38	-37	-53	-104	-106	-101	-98	-77	-53	-7	94	139	117	267	464	421
29	222	282	337	228	273	160	39	-24	-39	-45	-62	-77	-92	-91	-80	-72	-43	10	228	324	430	379	480	418
30	393	326	268	231	319	255	114	-20	-28	-58	-54	-81	-86	-78	-85	-74	-47	7	151	225	353	439	537	462
31	257	185	277	221	312	270	47	-29	-40	-41	-49	-83	-108	-94	-79	-64	-36	9	118	186	488	221	428	299

PERCENT VALID HOURS FOR AUG, 1994 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR AUG, 1994 XXXX(DD,HH) = 655(5,22) 650(4,23) 611(22,21) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) SEPT, 1994

TEMPERATURE DIFFERENCE TIMES 100 DELT3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	293	365	273	321	345	226	90	-24	-41	-65	-76	-110	-116	-110	-90	-65	-40	9	91	162	334	525	164	218
2	189	270	362	240	376	335	102	-14	-20	-76	-102	-102	-111	-107	-90	-68	-35	10	75	239	342	386	317	305
3	455	343	327	367	243	284	110	-8	-49	-51	-53	-74	-102	-102	-97	-77	-45	12	217	273	395	265	267	529
4	318	271	329	183	267	265	68	-34	-38	-35	-48	-85	-83	-80	-64	-67	-47	0	193	294	231	276	375	403
5	225	281	164	313	161	203	54	-26	-37	-52	-53	-72	-107	-84	-94	-71	-47	3	149	288	456	373	210	366
6	277	221	257	182	236	182	28	-31	-36	-51	-65	-101	-102	-98	-84	-73	-49	19	204	235	474	326	393	247
7	221	412	222	200	198	209	117	-30	-35	-32	-51	-102	-111	-99	-92	-70	-28	53	202	290	454	242	392	457
8	241	331	218	303	251	157	87	-27	-43	-55	-93	-113	-109	-109	-95	-69	-34	14	92	378	413	530	518	489
9	469	273	312	440	419	277	97	-10	-31	-50	-87	-94	-95	-66	-64	-43	-7	23	33	34	36	38	58	55
10	43	51	54	60	43	47	15	-14	-54	-84	-102	-109	-111	-106	-92	-61	-28	11	55	109	124	131	104	79
11	69	113	159	302	164	182	35	1	-54	-87	-100	-106	-108	-104	-95	-66	-37	6	71	167	159	60	133	124
12	64	51	39	21	54	47	15	-9	-69	-95	-116	-131	-117	-115	-100	-75	-39	-4	8	63	167	201	322	296
13	57	29	64	85	155	144	143	-13	-48	-70	-88	-101	-111	-100	-96	-72	-52	-9	59	122	294	309	300	136
14	236	234	261	293	246	180	68	-28	-37	-46	-54	-71	-75	-64	-62	-49	-35	34	290	195	306	271	384	267
15	238	383	240	242	251	331	180	8	-36	-36	-57	-64	-62	-63	-57	-57	-40	10	139	263	285	228	251	346
16	309	287	235	242	288	267	159	-7	-35	-30	-54	-60	-78	-61	-56	-31	-1	89	213	304	149	257	333	243
17	293	252	305	271	213	273	105	-10	-26	-37	-47	-46	-49	-78	-61	-55	-31	28	193	373	290	369	401	338
18	185	306	147	320	235	284	61	25	-29	-48	-35	-39	-57	-71	-64	-38	-28	47	212	213	171	252	300	161
19	266	147	154	200	176	165	128	-16	11	****	****	****	****	-87	-83	-74	-42	-13	4	25	19	23	28	97
20	164	190	338	181	118	163	****	****	****	****	****	****	-64	-68	-44	-78	-24	8	67	75	28	51	135	216
21	235	166	292	184	173	212	132	-13	-30	-32	-42	-59	-74	-66	-41	-42	-26	25	239	304	248	254	321	272
22	274	238	240	264	332	266	124	0	-25	-36	-40	-52	-63	-60	-50	-45	-31	84	166	210	263	319	265	208
23	349	250	254	271	295	419	124	-24	-21	-39	-42	-45	-61	-66	-55	-36	-5	84	149	201	251	242	216	208
24	199	323	303	277	216	232	107	-20	-26	-42	-45	-50	-52	-69	-54	-46	-22	20	122	252	207	190	221	284
25	290	175	309	204	229	282	87	-20	-29	-35	-39	-74	-79	-58	-71	-60	-29	76	133	107	274	266	345	325
26	226	279	209	263	320	199	101	2	-37	-35	-44	-48	-54	-57	-54	-44	-18	66	201	88	306	238	280	521
27	341	328	286	231	227	262	144	-4	-30	-42	-50	-58	-81	-63	-72	-48	-19	22	79	255	297	222	127	135
28	258	295	189	190	269	257	172	-25	-34	-33	-59	-77	-88	-64	-45	-30	-13	21	39	38	12	22	45	39
29	6	26	9	49	78	32	-21	-7	-28	-31	-79	-67	-21	33	20	33	62	148	63	53	111	183	176	136
30	155	264	282	311	369	241	208	15	-32	-41	-51	-53	-58	-59	-42	-35	-28	40	165	333	356	182	355	304

PERCENT VALID HOURS FOR SEPT, 1994 710*100/ 720= 98.6%

THREE HIGHEST VALUES FOR SEPT, 1994 XXXX(DD,HH) = 530(8,21) 529(3,23) 525(1,21) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) OCT, 1994

TEMPERATURE DIFFERENCE TIMES 100 DELT3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	295	357	442	392	189	229	110	-7	-28	-39	-49	-47	-49	-51	-52	-38	-18	166	198	284	125	254	343	173
2	236	169	209	244	245	239	116	22	-31	-33	-37	-62	-81	-78	-68	-45	-4	114	240	157	505	528	547	433
3	496	534	448	279	264	491	345	52	4	-17	-45	-57	-43	-34	-36	-30	-11	35	163	128	195	218	118	25
4	22	36	36	71	46	45	2	-12	-31	-47	-58	-63	-52	-44	-57	-32	-6	24	43	54	29	9	81	53
5	32	38	36	20	24	12	-3	-25	-58	-77	-83	-89	-92	-95	-57	-44	-12	71	86	122	173	189	115	140
6	236	183	363	244	171	174	71	-23	-28	-28	-38	-47	-47	-43	-34	-21	-10	89	148	223	146	326	236	360
7	400	473	454	296	244	424	276	81	-24	-37	-71	-72	-80	-79	-64	-47	8	163	271	180	122	154	238	146
8	152	139	135	273	249	265	56	6	-24	-50	-70	-58	-45	-43	-29	-27	-8	165	280	218	339	391	257	315
9	276	241	306	325	262	309	172	5	-23	-17	-19	-41	-41	-41	-42	-28	14	138	284	378	113	153	162	354
10	196	205	296	304	281	286	216	-14	-13	-35	-29	-50	-77	-72	-56	-31	18	130	126	223	418	403	329	330
11	416	327	282	418	200	246	194	46	-23	-35	-45	-61	-73	-68	-54	-34	37	231	301	491	264	379	353	272
12	198	380	272	307	348	291	194	5	-23	-36	-50	-68	-75	-76	-60	-31	3	32	49	84	60	53	49	61
13	53	81	146	360	183	146	179	17	-32	-35	-42	-47	-47	-51	-38	-29	-7	97	140	295	192	99	14	53
14	52	58	66	75	64	12	87	-17	-38	-34	-42	-60	-63	-64	-46	-28	-9	0	8	18	15	12	-13	-16
15	7	15	44	66	59	29	22	-19	-27	-50	-63	-69	-64	-74	-56	-40	-18	29	30	176	150	91	35	55
16	57	101	215	341	396	442	225	61	-26	-30	-63	-77	-79	-64	-54	-39	-26	27	117	72	78	140	279	325
17	456	265	314	391	171	75	41	24	-29	-14	-44	-52	-57	-45	-43	-34	13	177	282	184	277	246	329	276
18	245	252	205	110	134	234	142	-13	-27	-24	-46	-51	-60	-58	-49	-36	21	230	312	244	296	303	394	274
19	222	333	222	244	216	312	153	-1	-26	-20	-29	-33	-40	-42	-40	-25	12	183	191	358	178	303	410	184
20	231	240	212	269	264	217	142	71	-31	-26	-27	-45	-52	-55	-40	-22	63	365	299	219	242	500	224	293
21	266	277	178	287	155	216	258	-1	-23	-36	-32	-40	-43	-44	-42	-22	58	234	328	320	310	387	330	476
22	210	317	222	244	321	224	215	26	-28	-29	-24	-36	-34	-36	-31	0	140	265	324	395	321	302	334	305
23	401	315	254	304	369	196	209	28	-18	-32	-33	-36	-35	-37	-35	-14	109	222	424	334	224	330	303	241
24	212	141	209	322	251	326	175	50	-23	-29	-30	-43	-47	-38	-36	-21	62	287	241	338	303	354	455	225
25	272	284	147	162	203	290	89	19	-13	-32	-30	-36	-43	-39	-42	-6	126	181	116	285	422	335	211	252
26	250	221	221	255	214	273	166	25	-24	-47	-42	-43	-40	-36	-27	-21	72	257	193	252	434	353	383	222
27	390	290	310	267	234	254	260	76	-17	-34	-42	-48	-31	-26	-33	-10	85	307	264	291	338	443	317	231
28	350	291	284	331	289	234	268	49	-12	-27	-26	-35	-42	-35	-28	-6	138	289	299	407	305	404	247	392
29	363	326	201	286	366	293	386	250	11	-30	-34	-32	-37	-45	-31	-20	63	229	118	214	302	394	437	364
30	459	451	456	406	296	299	330	82	-24	-45	-52	-71	-60	-66	-41	-6	85	201	164	310	301	266	305	330
31	449	289	333	279	259	324	153	9	-16	-30	-22	-41	-35	-25	-24	-8	85	334	378	449	403	344	434	487

PERCENT VALID HOURS FOR OCT, 1994 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR OCT, 1994 XXXX(DD,HH) = 547(2,22) 534(3, 1) 528(2,21) . (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) NOV, 1994

TEMPERATURE DIFFERENCE TIMES 100 DELT3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	253	318	324	202	343	291	192	59	-30	-39	-39	-42	-42	-39	-26	11	49	65	56	50	40	37	45	54
2	62	42	67	58	50	27	29	13	8	-5	-27	-43	-26	-32	-39	-36	-17	-12	-10	-4	-6	-13	-16	-15
3	-20	-17	-21	-7	5	42	52	0	-29	-51	-66	-77	-61	-40	-42	-52	1	65	254	169	152	169	171	137
4	152	161	152	189	133	158	201	144	-21	-34	-39	-37	-45	-36	-36	-23	38	101	137	110	321	273	231	273
5	94	130	159	170	69	23	130	-2	-27	-31	-43	-38	-34	-32	-45	-29	20	73	136	264	189	124	104	175
6	246	195	289	246	272	211	276	49	-12	-27	-36	-34	-29	-37	-33	-25	54	209	328	305	170	130	223	235
7	400	420	237	305	234	213	107	74	13	-22	-25	-25	-29	-26	-18	-19	40	415	215	307	323	260	357	297
8	242	119	73	87	154	134	228	36	-28	-39	-40	-49	-47	-50	-49	-22	65	208	196	316	295	291	243	303
9	281	183	235	297	233	264	253	89	-7	-25	-27	-56	-65	-62	-47	-19	24	54	74	89	84	174	299	184
10	160	123	188	201	250	157	144	62	-13	-28	-20	-23	-38	-17	-15	-14	20	29	55	76	81	126	179	192
11	148	197	199	97	155	208	194	112	-1	-26	-30	-36	-35	-33	-30	-20	-2	8	23	19	22	27	104	39
12	70	180	200	320	303	270	189	83	12	20	-28	-71	-69	-63	-51	-24	38	85	166	230	179	34	13	57
13	86	136	108	205	190	288	225	122	-8	-32	-66	-60	-56	-57	-42	-17	38	159	116	21	38	89	85	96
14	57	57	227	323	464	564	518	200	-9	-31	-31	-35	-48	-41	-37	-25	95	252	300	324	310	296	397	346
15	239	265	393	254	328	335	407	106	-5	-28	-25	-35	-37	-31	-24	-4	37	50	200	263	253	178	115	34
16	100	120	110	133	115	90	121	58	-5	-28	-34	-53	-83	-80	-40	-17	-4	-3	23	26	40	57	105	219
17	194	285	298	171	261	236	186	90	-5	-18	-57	-81	-83	-67	-43	-15	14	65	48	38	37	-9	7	5
18	-1	-6	-5	-7	-5	6	35	21	14	27	25	8	29	36	12	48	281	241	121	187	84	70	119	184
19	220	252	255	228	191	285	295	140	80	188	26	19	32	79	98	50	194	216	202	266	206	203	281	215
20	252	212	179	226	239	195	255	153	59	7	12	-15	74	0	7	58	188	228	128	152	152	127	118	89
21	186	105	185	108	117	241	134	49	-14	-14	-19	-22	-19	-25	-20	-3	73	207	217	263	191	186	171	161
22	160	188	361	103	44	87	115	90	39	19	-9	-23	-21	-19	-28	25	86	101	121	148	77	224	197	278
23	229	103	170	192	273	221	263	189	29	5	-5	-18	-20	-15	-15	-4	131	310	379	262	361	205	269	223
24	149	241	195	235	238	158	237	100	-15	-4	-18	-11	-14	-20	-17	90	217	154	272	194	188	218	195	223
25	158	229	310	202	114	158	135	147	-11	-20	37	-6	-20	-19	-6	12	29	32	32	37	36	37	35	33
26	38	46	50	22	25	35	39	8	-7	-27	-23	-58	-31	-10	2	11	58	67	98	64	65	75	184	205
27	121	200	206	219	497	320	298	338	40	5	-25	-30	-44	-45	-26	5	124	320	248	234	223	172	268	283
28	153	297	154	159	268	317	287	164	30	-12	-25	-21	-27	-42	-31	6	268	154	181	277	489	243	281	255
29	417	181	343	227	387	354	343	183	181	0	-32	-30	-34	-30	-21	-13	104	280	306	425	311	304	157	253
30	249	312	221	179	320	295	184	221	9	-29	-22	-28	-21	-29	-10	41	292	369	208	218	431	323	340	278

PERCENT VALID HOURS FOR NOV, 1994 720*100/ 720=100.0%

THREE HIGHEST VALUES FOR NOV, 1994 XXXX(DD,HH) = 564(14, 5) 518(14, 6) 497(27, 4) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) DEC, 1994

TEMPERATURE DIFFERENCE TIMES 100 DELT3

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	248	278	253	250	184	176	300	128	86	-30	-17	-19	-25	-21	-9	50	65	232	249	310	225	284	228	273
2	175	345	364	251	300	247	283	145	-9	-23	-36	-38	-45	-35	-28	85	238	305	387	133	270	239	199	251
3	293	261	199	344	194	343	123	156	35	15	-16	-21	-21	-6	18	68	153	190	187	152	210	122	282	163
4	268	186	215	235	248	297	175	61	13	-17	-18	30	-1	-8	18	49	122	176	90	117	144	79	146	87
5	172	129	120	193	309	272	445	166	37	-4	-22	-19	-42	-46	-42	-14	67	43	90	301	216	102	116	179
6	116	153	258	140	249	150	246	108	1	-20	-37	-26	-40	-47	-27	10	77	140	157	171	137	112	243	234
7	229	187	153	64	140	197	132	76	27	-16	-21	-35	-34	-32	-21	12	125	129	194	111	301	354	375	233
8	355	223	249	459	344	142	182	96	22	-17	-39	-57	-51	-46	-33	15	199	****	****	****	****	****	****	****
9	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
11	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
12	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
15	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
18	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	4	172	185	358	521	499	534	317	131
20	280	296	312	309	242	379	291	254	70	3	-55	-55	-62	-52	-25	131	216	380	342	510	543	278	237	276
21	336	308	339	361	273	344	213	239	30	-40	-47	-58	-55	-54	-35	88	342	220	372	315	416	165	255	205
22	216	285	238	335	278	210	162	114	36	13	-29	9	15	-6	48	92	131	108	116	162	152	132	211	168
23	184	93	67	86	113	133	82	142	17	-4	-48	-57	-53	-49	-47	-42	33	7	5	-12	-9	2	18	9
24	15	-26	2	-11	-14	-14	8	-6	-34	-44	-54	-55	-51	-51	-47	-37	24	2	56	43	-40	-25	0	-1
25	4	21	-29	17	26	-6	19	-38	-72	-103	-39	-42	-59	-55	-55	-45	-25	-9	-10	8	22	-10	51	65
26	25	29	-2	107	92	170	121	89	26	-13	-36	-45	-47	-44	-38	1	63	24	33	45	89	69	65	142
27	124	109	137	146	107	58	120	43	31	28	-37	-56	-50	-55	-47	-18	67	144	34	101	112	158	97	37
28	65	43	70	33	39	65	64	67	-14	-46	-33	-48	-61	-58	-46	-43	-26	-19	-10	-33	-57	-18	-4	-34
29	-8	-17	-25	-37	-42	-25	-2	-4	-35	-45	-47	-48	-49	-48	-42	-33	-16	-17	24	16	-3	15	-7	-3
30	25	85	53	68	67	45	18	-25	-7	-33	-54	-67	-61	-50	-49	-45	-14	54	46	78	171	49	107	86
31	2	26	-1	-32	-35	-29	-8	-35	-46	-30	-17	-61	-55	-65	-58	-48	38	101	135	161	11	101	121	43

PERCENT VALID HOURS FOR DEC, 1994 482*100/ 744= 64.8%

THREE HIGHEST VALUES FOR DEC, 1994 XXXX(DD,HH) = 543(20,20) 534(19,21) 521(19,19) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY YAMARTINO SIGMA THETA 8 M STABILITY CLASS JAN, 1994

LEAST SIGNIFICANT DIGIT = 1.000 STBSIG8

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	5	6	6	6	6	6	6	6	2	2	1	3	2	4	1	2	6	6	6	6	6	6	6	6
2	6	6	6	6	6	6	6	6	1	1	1	3	1	2	4	4	6	5	4	6	6	6	6	6
3	6	6	6	6	6	6	6	6	1	1	1	1	1	4	3	1	5	6	6	6	6	6	6	6
4	5	6	6	6	6	4	6	6	2	2	1	1	1	3	2	3	6	6	6	6	6	6	5	6
5	5	6	6	6	6	6	6	4	1	1	1	2	1	1	2	4	4	4	4	5	4	5	6	6
6	6	6	6	6	6	6	6	5	1	4	1	2	4	4	4	4	4	4	5	6	6	6	6	6
7	6	6	6	6	6	6	6	6	1	1	1	1	1	1	1	4	4	6	5	6	6	6	4	6
8	6	6	6	6	6	6	6	6	1	1	1	1	1	1	2	4	5	4	6	6	5	6	6	6
9	6	6	6	6	6	6	6	6	1	2	1	1	1	4	3	3	4	6	6	4	6	6	5	4
10	6	6	5	5	6	5	6	5	4	4	4	4	3	3	4	4	5	6	4	6	6	6	6	6
11	6	6	6	6	6	6	6	6	1	1	3	1	1	1	1	1	4	5	4	4	5	5	6	5
12	5	6	6	6	6	4	6	6	4	3	1	2	1	3	4	4	5	4	4	4	5	6	6	4
13	6	6	6	6	6	5	6	6	1	1	1	2	1	2	2	4	5	4	4	6	4	5	6	6
14	6	6	5	5	6	4	5	6	1	1	3	3	1	2	3	1	6	6	6	5	5	4	6	6
15	5	6	6	6	5	6	6	6	1	2	3	1	1	1	4	1	5	5	6	6	6	6	6	6
16	6	6	6	6	6	6	6	6	1	1	1	2	1	4	4	4	5	5	6	6	6	6	6	6
17	6	6	6	6	6	6	6	6	1	1	1	2	1	1	3	1	5	6	6	4	6	6	6	6
18	6	6	6	6	6	6	6	6	1	2	2	3	2	3	4	2	5	6	6	6	6	6	4	6
19	6	6	6	6	5	6	4	6	1	2	1	2	1	1	2	3	5	4	6	6	5	6	6	6
20	6	6	6	6	6	6	6	6	1	1	1	1	1	3	3	4	4	6	6	6	6	6	6	6
21	6	6	6	6	6	6	6	6	1	1	1	2	1	1	2	3	6	4	6	6	6	6	6	6
22	6	6	5	6	6	6	6	6	1	1	2	1	1	1	1	4	6	5	5	6	6	6	6	6
23	6	5	6	6	6	6	6	6	1	1	1	1	2	2	2	4	4	4	5	5	6	6	6	6
24	6	6	6	6	6	6	6	6	1	1	1	1	4	3	2	3	4	4	5	6	6	6	5	4
25	4	4	4	5	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
27	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
28	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
29	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
31	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****

PERCENT VALID HOURS FOR JAN, 1994 580*100/ 744= 78.0%

THREE HIGHEST VALUES FOR JAN, 1994 XXXX(DD,HH) = 6(1, 1) 6(1, 2) 6(1, 3) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY YAMARTINO SIGMA THETA 8 M STABILITY CLASS FEB, 1994

LEAST SIGNIFICANT DIGIT = 1.000 STBSIG8

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	****	****	****	****	****	****	****	****	****	****	4	4	4	4	4	1	4	6	6	6	6	6	6	6
2	6	6	6	6	6	6	6	1	2	1	1	1	1	1	3	3	3	5	4	5	6	6	6	4
3	6	6	6	6	6	6	6	3	1	4	1	1	1	4	3	4	4	5	6	6	6	6	6	6
4	4	6	4	4	6	5	5	4	4	4	2	1	1	1	3	4	4	4	6	6	6	5	6	6
5	5	4	4	6	6	4	5	1	4	4	1	1	1	2	1	1	4	6	5	5	5	6	6	5
6	6	6	4	6	6	6	6	1	1	1	1	1	1	1	3	3	4	4	6	6	6	6	4	6
7	6	6	6	6	6	6	6	1	3	2	1	2	3	1	2	4	4	5	5	6	6	4	5	4
8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	2	4	6	6	6	6	6	6
9	6	6	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	4	4	4	6	6	6	6	6
11	4	4	5	4	4	5	6	1	2	4	4	3	3	2	3	2	4	4	4	4	4	4	4	4
12	5	4	****	****	****	****	****	****	****	****	****	****	3	1	1	1	1	5	6	6	6	6	6	5
13	6	6	6	6	6	6	6	1	2	1	4	1	1	1	1	2	2	5	6	4	4	6	6	6
14	6	6	6	6	6	6	6	1	2	2	1	2	3	1	4	4	4	6	5	6	4	6	5	6
15	6	6	6	6	4	6	6	1	1	1	4	1	1	1	1	4	4	6	6	6	5	6	6	6
16	6	6	4	4	4	5	4	2	1	1	1	1	1	2	4	4	4	6	6	6	5	6	4	6
17	6	5	6	6	6	6	6	1	3	1	1	1	1	1	1	1	4	5	4	6	6	6	6	6
18	5	6	6	5	6	6	6	1	1	1	1	4	2	3	3	3	4	5	4	6	6	6	4	6
19	6	6	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	5	6	6	6	6	6
21	6	6	6	6	6	6	6	1	1	1	1	1	1	2	3	2	3	4	6	6	6	6	6	6
22	6	5	6	6	6	5	4	4	4	3	3	4	3	3	4	4	4	5	4	4	4	6	6	6
23	6	6	6	6	5	4	5	1	1	1	1	1	1	1	1	1	3	6	4	4	6	6	5	6
24	6	6	6	6	6	6	6	2	1	1	2	1	1	3	1	3	4	5	4	6	6	6	6	6
25	6	6	6	6	6	6	6	3	2	2	1	1	1	1	1	2	4	6	5	6	6	6	6	6
26	6	6	6	6	6	6	6	1	1	1	1	1	1	2	4	4	4	4	5	6	6	6	6	6
27	6	6	6	6	6	6	6	1	2	1	1	1	4	3	1	3	4	4	4	4	6	5	4	5
28	6	5	6	4	4	6	6	1	3	4	4	4	2	3	3	4	4	4	5	5	4	6	6	5

PERCENT VALID HOURS FOR FEB, 1994 574*100/ 672= 85.4%

THREE HIGHEST VALUES FOR FEB, 1994 XXXX(DD,HH) = 6(1,17) 6(1,18) 6(1,19) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY YAMARTINO SIGMA THETA 8 M STABILITY CLASS MAR, 1994

LEAST SIGNIFICANT DIGIT = 1.000 STBSIG8

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	6	5	6	6	5	6	6	1	3	3	1	3	3	2	1	2	4	4	6	4	6	6	6	6
2	6	6	5	6	6	6	6	1	1	1	1	1	1	1	1	1	1	6	6	4	6	6	6	6
3	6	6	6	6	5	6	6	1	2	1	1	1	1	1	1	2	4	5	5	6	6	6	6	6
4	6	6	6	6	6	5	6	2	4	1	1	1	1	1	1	1	4	5	5	6	5	5	6	6
5	6	6	6	6	6	6	6	4	1	2	2	1	1	1	4	4	4	5	6	6	6	6	5	4
6	6	5	6	6	5	6	5	1	1	2	1	1	3	3	2	3	2	5	6	6	6	4	4	5
7	6	6	6	6	5	6	6	1	1	1	1	1	2	2	2	1	1	6	6	6	6	6	6	6
8	5	5	5	6	6	5	5	4	1	2	1	1	1	1	2	1	1	6	6	4	6	6	5	6
9	5	6	6	6	6	6	6	1	1	2	1	1	1	1	1	1	2	5	5	5	5	4	6	6
10	6	6	6	6	5	6	6	1	1	1	2	1	2	4	4	4	4	4	5	5	4	5	6	5
11	6	6	6	5	5	5	5	3	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
12	4	4	5	5	5	4	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4	5	5
13	5	6	6	4	4	5	4	4	2	2	2	1	1	1	2	2	1	5	6	6	4	6	6	6
14	4	6	6	6	6	6	6	1	1	1	1	1	1	1	1	1	3	4	4	6	6	6	6	6
15	6	6	6	6	6	6	6	1	1	1	1	1	1	3	3	4	4	4	5	6	6	6	6	6
16	6	6	6	6	6	6	6	4	4	4	4	4	4	4	4	4	4	4	5	4	4	4	6	6
17	6	6	6	6	6	6	6	1	3	1	1	1	1	1	1	4	4	5	4	6	6	6	5	6
18	6	6	6	6	6	6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5
19	4	4	4	4	4	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	6
20	4	6	6	6	6	5	5	1	1	1	1	1	1	1	1	1	1	4	5	4	6	6	6	6
21	6	6	6	6	5	6	6	1	2	1	1	2	4	4	4	4	4	4	4	5	6	5	6	6
22	4	4	6	6	6	6	5	2	4	4	4	4	4	4	4	4	4	4	4	5	5	4	4	6
23	5	5	6	6	6	6	6	1	1	1	1	1	1	1	1	1	1	5	6	6	6	6	6	6
24	6	6	6	4	6	6	6	1	1	1	1	1	1	2	2	1	4	5	4	6	6	6	6	6
25	6	6	6	6	5	4	6	4	4	2	2	3	1	2	4	4	3	5	4	4	5	4	6	6
26	6	6	6	5	6	5	4	4	4	1	2	3	4	3	4	4	4	4	4	6	6	6	6	6
27	6	6	6	6	6	6	6	1	1	3	2	3	3	4	4	4	4	4	6	6	6	6	6	6
28	6	6	6	6	6	5	5	1	1	1	2	1	1	3	3	4	4	5	4	6	6	6	6	6
29	6	6	6	6	6	6	5	1	1	1	1	1	1	1	1	1	1	4	4	6	6	6	6	6
30	6	6	6	6	6	6	6	1	1	1	1	1	1	1	1	1	1	5	4	6	4	5	6	6
31	6	6	6	6	6	6	6	1	1	1	1	2	4	4	4	4	4	4	5	6	4	6	6	6

PERCENT VALID HOURS FOR MAR, 1994 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR MAR, 1994 XXXX(DD,HH) = 6(1, 0) 6(1, 2) 6(1, 3) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY YAMARTINO SIGMA THETA 8 M STABILITY CLASS APR, 1994

LEAST SIGNIFICANT DIGIT = 1.000 STBSIG8

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	6	5	6	6	6	6	1	2	1	2	3	3	2	1	1	2	1	4	4	5	4	6	6	6
2	6	6	6	5	6	5	2	3	3	1	1	1	1	1	1	1	3	2	5	6	6	4	4	6
3	6	6	6	6	5	6	1	2	4	4	4	4	4	4	4	4	2	2	4	4	4	4	4	6
4	6	4	6	6	6	6	4	2	1	1	1	1	2	4	4	4	4	4	4	4	4	4	4	6
5	6	6	6	6	6	6	1	1	2	****	1	1	1	1	1	2	3	4	5	4	5	6	6	6
6	6	6	6	6	6	5	1	2	3	1	1	1	1	1	3	4	4	4	6	4	5	4	4	5
7	6	6	5	4	6	6	1	2	1	1	1	1	1	1	2	3	3	4	5	4	6	6	6	6
8	5	6	5	6	6	5	4	4	3	3	2	1	3	4	4	4	4	4	4	4	4	4	4	4
9	5	4	5	4	5	6	3	4	2	2	1	1	1	4	3	2	4	4	4	4	5	6	6	4
10	4	6	6	6	6	6	1	1	1	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4
11	4	5	5	4	5	6	2	3	2	1	1	1	1	1	2	1	1	3	4	6	5	6	6	6
12	6	6	6	6	6	6	1	1	1	1	1	1	1	1	2	1	3	4	4	6	5	6	6	4
13	6	6	6	6	6	6	1	1	1	1	1	1	2	3	3	3	4	4	5	4	6	6	6	6
14	6	6	6	6	6	6	1	1	1	1	1	1	1	1	2	2	1	1	4	5	6	4	4	4
15	4	4	4	4	5	4	1	1	3	2	2	1	1	1	1	1	1	1	4	5	4	5	6	6
16	6	6	6	6	6	6	1	1	1	2	1	1	2	1	3	3	4	2	5	6	4	5	6	6
17	6	6	6	6	6	5	1	1	1	1	1	1	3	3	4	4	4	4	4	4	6	6	6	6
18	5	6	5	6	6	6	1	1	1	1	1	1	2	1	2	1	2	3	5	4	5	5	4	4
19	6	4	6	6	6	6	2	1	1	1	1	1	1	2	2	2	2	3	5	5	6	4	6	4
20	5	6	6	6	6	6	3	1	1	1	1	1	2	3	4	4	4	4	5	4	4	6	6	6
21	6	6	6	6	6	6	1	1	1	1	2	4	4	4	4	4	4	4	4	5	5	4	6	6
22	4	4	5	6	6	6	4	3	1	2	2	3	4	4	4	4	4	4	4	4	6	6	6	4
23	4	4	4	4	4	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
24	4	4	4	5	4	4	4	4	4	4	4	4	4	3	4	3	4	3	4	4	6	6	6	6
25	6	6	4	4	4	6	4	2	4	4	4	4	4	4	2	2	3	3	4	5	6	4	6	6
26	6	6	6	5	5	6	1	2	1	1	1	3	2	2	3	3	4	4	5	4	6	6	4	5
27	6	6	5	6	6	4	4	4	2	4	3	4	4	4	3	4	4	3	5	6	4	4	4	6
28	6	4	4	4	6	4	4	1	1	1	2	1	2	2	3	1	1	3	6	6	4	5	6	6
29	5	5	6	6	6	4	4	1	2	1	1	2	3	1	1	1	1	1	6	4	6	6	5	6
30	6	6	6	6	6	5	3	1	1	1	1	1	2	4	4	4	2	3	4	6	6	6	6	5

PERCENT VALID HOURS FOR APR, 1994 719*100/ 720= 99.9%

THREE HIGHEST VALUES FOR APR, 1994 XXXX(DD,HH) = 6(1, 0) 6(1, 2) 6(1, 3) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY YAMARTINO SIGMA THETA 8 M STABILITY CLASS MAY, 1994

LEAST SIGNIFICANT DIGIT = 1.000 STBSIG8

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	6	6	6	6	4	3	4	4	1	1	1	1	1	2	1	1	1	4	5	5	5	6	4	6
2	6	6	6	6	5	1	2	1	1	1	1	1	2	2	2	3	4	4	5	5	6	5	6	6
3	6	5	6	6	6	1	1	1	1	1	1	1	1	2	3	4	4	4	5	5	6	5	6	4
4	6	6	6	6	6	1	1	2	1	1	1	2	2	2	4	4	4	4	4	5	5	6	4	4
5	6	6	6	6	6	1	1	1	1	3	4	4	4	4	4	4	4	4	5	6	4	5	4	6
6	4	4	5	5	6	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	6	4
7	6	6	6	6	5	1	1	3	1	1	1	2	3	4	3	3	3	3	5	5	4	5	4	4
8	5	6	6	6	6	1	1	4	3	1	2	4	3	2	4	1	2	1	6	4	4	6	6	5
9	6	6	6	6	6	1	1	1	1	1	1	1	1	2	1	2	4	4	4	6	6	5	6	6
10	6	6	6	6	6	1	1	1	1	1	1	1	1	1	3	2	3	3	4	6	6	5	5	6
11	5	6	5	6	6	1	1	2	1	1	1	1	1	1	1	2	4	4	4	4	6	6	6	6
12	6	6	6	6	6	1	1	1	1	1	1	2	2	2	3	4	4	4	4	5	4	6	6	5
13	6	6	5	6	6	4	1	1	1	1	1	1	1	1	3	4	2	1	6	6	6	6	6	6
14	6	6	6	5	6	1	1	1	1	1	1	2	4	4	4	4	4	4	4	5	5	4	4	4
15	4	4	4	4	6	1	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
16	4	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4	4	6	6	6
17	6	6	6	6	6	1	3	1	1	1	4	4	4	4	4	4	4	4	4	4	4	4	4	6
18	6	6	5	4	5	1	1	1	2	4	4	4	4	4	4	4	4	4	4	4	5	6	5	6
19	6	6	6	6	6	1	2	1	1	1	1	1	1	2	3	2	2	2	5	6	4	6	6	6
20	6	4	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
21	****	6	6	6	6	1	1	1	1	1	1	1	1	2	1	2	4	4	5	5	6	4	6	5
22	6	6	6	6	6	1	1	1	1	1	1	2	2	2	2	2	3	4	4	5	5	6	6	6
23	6	6	6	6	6	1	1	1	1	1	1	1	1	2	2	2	2	4	5	6	4	6	6	6
24	6	6	6	6	6	1	1	1	1	1	1	2	3	3	3	3	3	3	5	5	6	6	6	5
25	6	6	6	6	6	1	3	1	1	1	2	2	3	4	3	3	4	4	4	5	5	6	5	6
26	6	4	6	6	6	1	2	1	1	2	1	1	1	2	4	4	2	3	4	4	4	6	6	4
27	6	6	6	6	4	4	1	1	1	4	4	4	4	4	4	4	4	4	4	5	5	5	6	5
28	5	6	6	6	6	1	3	1	1	1	2	3	3	3	4	3	4	4	4	5	6	6	6	6
29	6	4	6	6	6	1	1	1	1	1	1	1	2	3	4	4	4	4	5	5	6	5	6	6
30	6	6	6	6	6	1	2	1	1	1	1	1	2	4	2	2	3	4	4	4	4	6	5	5
31	4	5	5	6	6	1	1	1	1	4	3	2	2	1	1	1	2	4	5	5	6	5	6	5

PERCENT VALID HOURS FOR MAY, 1994 721*100/ 744= 96.9%

THREE HIGHEST VALUES FOR MAY, 1994 XXXX(DD,HH) = 6(1, 0) 6(1, 1) 6(1, 2) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY YAMARTINO SIGMA THETA 8 M STABILITY CLASS — JUNE, 1994

LEAST SIGNIFICANT DIGIT = 1.000 — STBSIG8

HOUR

DAY	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	6	6	6	6	6	1	2	2	1	1	1	1	1	1	1	1	1	1	1	5	4	6	6	6
2	6	6	6	6	6	1	3	1	1	1	1	1	1	1	2	3	4	4	4	5	6	6	6	6
3	6	6	6	6	6	1	1	2	1	3	4	4	4	4	4	4	4	4	4	4	5	6	6	6
4	6	6	6	6	6	1	1	1	1	4	2	2	2	3	4	3	3	4	4	5	6	6	6	5
5	5	6	6	6	6	1	3	1	1	1	1	4	4	4	4	4	4	4	4	4	4	4	4	4
6	5	4	5	6	5	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4
7	4	6	6	6	5	4	4	4	1	1	1	1	1	1	2	2	3	4	4	5	6	6	6	6
8	6	6	6	6	5	4	4	3	1	1	1	1	1	1	1	1	1	2	4	5	6	6	6	5
9	6	6	6	6	6	2	3	1	1	1	1	1	1	1	1	1	1	3	4	5	6	6	6	6
10	6	6	6	6	6	1	1	1	1	1	1	1	1	2	1	3	2	3	4	4	5	6	6	6
11	6	6	6	6	6	1	1	1	1	1	1	3	2	2	2	4	4	4	4	4	6	6	6	6
12	6	6	5	6	6	1	1	1	1	1	3	2	2	4	4	4	4	4	4	4	5	6	6	4
13	6	6	6	6	6	2	2	1	2	2	4	4	4	4	4	4	4	4	4	4	5	5	6	5
14	6	6	6	6	6	1	4	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
15	4	4	5	6	6	2	1	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
16	4	5	5	6	6	1	4	1	1	2	3	4	4	4	4	4	4	4	4	4	5	5	6	4
17	6	6	6	6	6	2	1	2	1	1	4	4	4	4	4	4	4	4	4	4	4	5	6	6
18	6	6	6	6	6	1	1	1	1	1	2	4	4	4	4	4	4	4	4	6	6	5	6	4
19	6	6	6	6	6	1	1	1	1	1	1	2	2	3	4	4	4	4	4	4	6	6	6	4
20	6	6	6	6	4	1	1	1	1	1	2	4	4	4	4	4	4	4	4	5	6	5	6	5
21	4	6	6	4	4	4	4	1	1	2	2	2	3	4	4	3	3	4	4	4	5	6	6	6
22	6	6	6	6	6	1	2	1	1	1	4	4	4	4	4	4	4	4	4	4	5	4	4	5
23	6	4	6	6	6	1	1	1	1	2	4	4	4	4	4	4	4	4	4	6	6	6	6	4
24	6	4	6	6	6	1	1	1	3	1	1	4	4	3	4	4	4	4	4	4	6	5	6	6
25	6	6	6	6	6	1	1	3	1	4	4	4	4	4	4	4	4	4	4	4	4	6	6	5
26	5	6	5	4	4	4	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4	4	5	4
27	5	6	5	6	6	3	2	1	1	2	3	3	3	4	4	4	4	4	4	4	4	4	6	6
28	5	6	4	6	6	2	1	1	1	1	1	2	4	4	4	4	4	3	4	6	6	6	6	6
29	6	6	6	6	6	1	1	1	1	1	1	3	3	4	2	4	4	4	4	4	4	4	5	6
30	6	6	6	6	6	3	1	1	1	1	1	3	3	4	3	4	4	4	3	4	4	5	4	4

PERCENT VALID HOURS FOR JUNE, 1994 720*100/ 720=100.0%

THREE HIGHEST VALUES FOR JUNE, 1994 XXXX(DD,HH) = 6(1, 0) 6(1, 1) 6(1, 2) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY YAMARTINO SIGMA THETA 8 M STABILITY CLASS — JULY, 1994

LEAST SIGNIFICANT DIGIT = 1.000 — STBSIG8

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	5	6	4	6	5	1	1	1	2	4	4	4	4	4	4	4	4	4	4	5	4	4	5	4
2	4	4	6	6	6	1	1	3	4	4	4	4	4	3	4	2	4	4	4	4	4	6	6	6
3	6	4	6	6	6	1	1	1	2	3	2	2	3	4	4	4	4	4	4	5	6	4	6	6
4	6	6	6	6	6	1	1	3	1	1	2	2	2	4	4	4	4	4	4	5	4	5	5	6
5	6	6	6	6	6	1	1	1	2	2	2	4	4	4	4	4	4	4	4	4	4	4	5	6
6	6	5	6	6	6	2	1	3	3	2	1	1	1	1	1	1	1	1	6	4	5	6	6	5
7	5	6	6	6	6	1	4	1	1	1	1	1	1	1	1	1	1	1	4	5	5	6	5	6
8	6	5	6	6	6	1	1	1	1	1	1	1	2	1	1	1	1	1	6	4	6	6	6	5
9	6	6	6	6	6	1	2	1	1	1	1	3	4	4	4	4	4	4	4	5	4	6	6	5
10	5	6	6	6	6	1	1	1	1	2	4	4	4	4	4	4	4	4	4	4	6	6	4	6
11	5	6	6	6	6	1	1	1	1	1	2	1	1	2	3	3	3	4	5	5	6	4	5	6
12	6	6	6	6	6	1	3	1	2	1	1	1	2	2	4	4	4	4	4	5	5	6	6	5
13	4	6	6	6	6	1	1	2	1	1	3	3	3	4	4	4	4	4	4	4	6	6	6	6
14	6	6	6	6	6	1	1	1	1	1	1	2	3	4	4	4	4	4	4	5	4	6	4	6
15	6	6	6	6	6	1	1	1	1	1	1	1	2	3	4	4	4	4	4	4	5	6	5	6
16	6	6	5	6	6	1	2	1	1	1	2	3	4	4	3	4	4	4	4	5	6	6	6	4
17	6	6	6	6	6	1	2	2	1	1	1	1	2	2	3	2	2	3	4	4	6	6	6	6
18	6	5	6	6	6	1	1	1	2	2	2	3	3	4	4	3	4	4	4	4	4	4	5	4
19	6	6	6	6	6	1	1	1	1	1	1	1	1	1	1	1	2	4	4	5	5	5	6	6
20	6	6	5	6	6	1	1	2	2	1	1	1	1	1	1	2	1	4	5	4	6	5	5	5
21	6	6	6	6	6	1	1	1	1	2	2	3	2	2	2	4	2	2	4	6	6	6	6	6
22	6	6	6	6	6	1	1	1	1	1	2	4	4	3	4	4	4	4	4	5	5	5	6	6
23	6	6	6	6	6	1	1	1	1	1	2	4	4	4	4	4	4	4	4	5	6	6	4	6
24	6	6	6	6	6	1	1	1	1	1	3	3	4	4	4	4	4	4	4	5	6	6	6	5
25	5	6	6	6	6	1	1	1	1	1	1	3	2	2	2	2	4	3	5	5	6	6	4	6
26	6	6	6	6	6	1	1	1	1	1	1	1	2	2	2	2	3	4	5	6	6	5	4	6
27	6	6	5	6	6	1	2	1	1	1	1	2	4	3	3	4	4	4	4	5	6	5	4	6
28	6	6	6	6	6	3	1	1	1	1	1	2	2	3	4	4	4	4	4	4	5	6	4	4
29	6	4	6	6	4	1	1	2	1	1	2	3	3	2	2	4	4	4	4	5	5	6	6	6
30	6	5	6	6	6	1	2	1	1	1	2	4	4	4	4	4	4	4	4	5	4	6	5	5
31	6	6	6	6	6	1	2	1	1	1	2	4	4	4	4	4	4	4	4	5	5	5	6	4

PERCENT VALID HOURS FOR JULY, 1994 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR JULY, 1994 XXXX(DD,HH) = 6(1, 1) 6(1, 3) 6(2, 2) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY YAMARTINO SIGMA THETA 8 M STABILITY CLASS AUG, 1994

LEAST SIGNIFICANT DIGIT = 1.000 STBSIG8

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	6	6	6	6	6	6	1	1	1	1	4	4	4	4	4	4	4	4	4	5	6	6	4	6
2	6	6	6	6	6	6	1	1	1	1	2	3	3	4	4	3	3	4	5	4	6	6	6	6
3	6	6	6	6	6	6	1	1	1	1	1	1	1	2	4	4	4	4	5	6	6	6	6	6
4	6	6	6	6	6	6	1	1	1	1	1	2	4	4	4	4	4	4	4	6	6	6	6	6
5	6	6	6	6	6	6	1	1	1	1	2	4	4	4	4	4	4	4	4	5	5	6	5	6
6	5	4	6	6	6	4	1	1	4	2	4	3	4	4	4	2	3	3	5	4	6	6	4	5
7	6	6	6	6	6	6	1	1	2	1	3	3	2	3	4	4	4	4	4	4	4	4	4	6
8	6	5	6	6	6	6	1	2	4	4	4	4	4	4	4	4	3	3	4	4	4	4	6	6	5
9	4	6	6	6	6	6	1	1	1	2	4	4	4	3	2	3	4	4	4	4	4	4	6	6	5
10	6	6	4	4	6	6	1	1	1	1	2	1	2	2	2	2	2	2	5	5	4	6	4	4
11	4	4	5	6	6	6	1	1	1	1	1	1	1	2	2	2	2	2	5	6	6	6	6	6
12	5	6	6	6	6	6	1	1	3	4	4	3	3	3	2	2	2	2	5	5	5	6	5	6
13	6	6	6	6	5	5	4	1	1	1	1	1	1	1	2	4	2	1	5	5	6	6	6	4
14	4	6	6	6	5	6	1	1	1	1	1	1	1	2	1	2	2	3	5	5	5	4	6	6
15	6	6	6	6	6	6	2	1	1	1	1	1	1	2	3	3	3	4	5	5	6	6	6	5
16	6	6	5	6	6	6	1	1	1	1	2	4	4	4	4	4	4	4	5	5	6	6	5	6
17	6	4	6	6	6	6	2	1	1	2	4	4	4	4	4	4	4	4	4	5	4	4	6	6
18	6	6	6	6	6	4	1	4	1	2	2	4	4	4	4	4	4	4	5	4	6	6	4	6
19	6	6	5	5	6	4	1	1	1	3	3	3	3	2	2	3	2	2	6	5	6	4	6	5
20	4	6	5	6	6	6	3	1	1	1	2	4	4	4	4	4	4	4	4	5	4	6	6	5
21	4	6	6	6	6	6	1	2	1	2	4	4	4	4	4	4	4	4	4	6	6	6	4	6
22	5	6	5	5	6	6	2	1	1	2	4	4	4	4	4	4	4	4	5	6	6	6	4	6
23	4	6	6	6	5	6	2	2	1	1	1	1	2	4	4	4	4	4	4	6	6	6	6	6
24	6	6	6	6	6	6	1	1	1	1	1	4	4	4	4	4	4	4	5	5	4	5	6	6
25	6	6	6	6	6	6	1	1	1	2	4	4	4	4	4	4	4	4	5	6	6	5	6	6
26	6	6	6	6	6	6	1	1	1	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4
27	4	5	5	6	4	4	4	1	4	2	1	1	1	1	1	1	2	2	6	6	6	6	6	6
28	6	5	6	6	6	6	1	1	1	1	1	4	4	4	4	4	4	4	5	6	6	6	6	4
29	6	6	6	6	6	6	1	1	1	1	1	2	3	3	3	3	3	4	5	6	6	6	6	6
30	5	6	6	6	6	6	2	1	1	1	1	2	2	2	3	4	4	4	4	6	6	5	4	6
31	6	6	6	6	6	6	1	1	1	1	1	2	4	4	4	4	4	4	5	5	6	6	6	5

PERCENT VALID HOURS FOR AUG, 1994 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR AUG, 1994 XXXX(DD,HH) = 6(1, 0) 6(1, 1) 6(1, 2) . (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY YAMARTINO SIGMA THETA 8 M STABILITY CLASS — SEPT, 1994

LEAST SIGNIFICANT DIGIT = 1.000 — STBSIG8

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	6	6	6	6	6	6	1	1	1	2	2	4	4	4	4	4	4	4	4	5	4	5	6	6
2	6	6	6	6	6	6	1	1	1	3	4	4	4	4	4	4	4	4	4	5	5	6	6	6
3	6	6	5	6	6	5	1	2	1	1	1	1	4	4	4	4	4	4	5	5	6	6	6	5
4	6	5	4	6	5	6	4	1	1	1	1	2	2	2	2	2	3	4	5	4	6	6	5	5
5	4	6	5	5	5	6	4	4	4	3	1	1	2	2	3	3	3	4	5	6	5	6	6	6
6	6	6	4	6	4	5	3	2	1	1	1	3	3	3	3	3	4	4	4	4	5	6	6	6
7	6	4	6	5	6	6	2	1	1	1	1	2	4	4	4	4	4	4	4	4	5	6	5	6	6
8	6	6	6	6	6	6	4	1	1	1	2	4	4	4	4	4	4	4	4	4	5	5	6	5	6
9	6	6	6	5	6	6	1	3	3	4	2	4	4	3	3	4	4	4	4	4	4	4	4	4	4
10	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4	4	4
11	4	4	4	5	6	6	1	3	4	4	4	4	4	4	4	4	4	4	4	5	4	4	6	5	4
12	4	4	4	5	5	5	1	2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	4
13	5	6	6	5	6	6	2	2	1	2	3	3	4	4	4	4	4	4	4	6	5	4	6	5	6
14	5	6	6	6	6	6	3	4	4	4	1	1	1	1	1	1	1	1	5	5	6	6	6	5	4
15	5	6	6	6	4	5	3	4	3	1	1	1	1	1	1	1	1	1	5	5	5	6	6	5	6
16	5	6	4	4	5	6	2	1	4	4	1	1	1	1	1	1	1	1	5	4	6	6	6	6	5
17	5	6	6	6	6	6	4	3	1	1	1	1	1	2	1	3	4	5	4	6	6	4	6	6
18	6	4	4	5	5	6	2	3	4	1	1	1	1	1	1	2	1	5	5	6	6	6	6	5
19	6	6	4	5	6	5	4	1	4	2	4	2	2	3	4	4	4	4	4	4	4	4	6	6
20	6	4	4	4	5	6	4	4	4	1	1	1	1	1	1	4	4	4	6	6	5	6	6	4
21	6	5	5	6	4	5	4	1	2	1	1	1	1	1	1	1	1	5	5	6	6	6	6	6
22	6	6	5	6	6	6	4	4	4	1	1	1	1	1	1	1	3	4	6	5	6	6	6	6
23	6	6	6	6	4	4	1	3	2	1	1	1	1	1	1	1	1	5	5	6	6	5	5	5
24	6	6	6	6	4	4	3	4	4	1	1	1	1	3	3	4	4	4	6	5	4	5	6	5
25	5	6	5	6	6	5	2	1	1	1	1	1	2	1	3	3	3	5	4	6	6	6	6	5
26	6	6	5	6	6	5	1	3	2	2	1	1	1	1	1	1	3	5	4	6	6	5	6	5
27	6	5	6	5	4	6	1	3	3	3	1	1	3	2	3	4	4	4	6	6	6	6	6	6
28	6	6	6	6	6	6	2	1	1	1	1	2	4	4	4	4	4	4	4	4	5	6	6	5
29	5	6	5	4	4	6	3	1	4	2	4	4	4	4	4	4	4	4	4	6	4	6	4	4
30	6	6	6	5	5	5	3	4	4	2	1	1	1	1	1	1	1	5	6	6	4	6	4	6

PERCENT VALID HOURS FOR SEPT, 1994 720*100/ 720=100.0%

THREE HIGHEST VALUES FOR SEPT, 1994 XXXX(DD,HH) = 6(1, 0) 6(1, 1) 6(1, 2) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY YAMARTINO SIGMA THETA 8 M STABILITY CLASS OCT, 1994

LEAST SIGNIFICANT DIGIT = 1.000 STBSIG8

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	6	6	4	5	6	4	3	3	3	3	1	1	1	1	1	1	3	4	6	5	5	6	5	6
2	6	5	6	6	4	5	3	4	4	2	3	2	4	4	4	4	4	5	4	6	4	6	6	6
3	5	4	6	6	6	6	3	4	4	4	4	2	1	1	1	4	4	5	5	5	6	6	5	4
4	4	4	6	4	5	4	1	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	4
5	4	5	4	4	4	4	4	4	4	4	4	4	4	4	3	3	4	5	5	4	6	5	6	6
6	5	5	4	4	4	4	4	4	3	4	2	1	1	1	1	1	1	4	5	5	5	4	5	5
7	5	5	4	5	4	6	1	1	4	1	2	2	3	3	3	4	4	5	5	4	4	6	5	6
8	6	5	5	6	6	6	1	1	1	1	1	1	1	1	1	1	3	5	6	6	5	6	6	6
9	6	6	5	4	4	4	****	4	4	4	1	1	1	1	1	1	3	4	6	5	5	4	5	6
10	6	5	5	6	6	6	****	4	2	1	1	1	4	4	4	4	4	5	4	6	6	5	4	6
11	5	6	5	6	6	4	4	4	3	1	2	2	4	3	3	4	4	5	5	4	5	5	6	5
12	6	4	4	6	6	4	4	4	4	4	3	2	2	4	4	4	4	4	4	5	4	4	4	4
13	4	4	6	4	5	5	1	4	3	1	1	1	1	1	1	1	2	5	5	6	6	5	4	4
14	4	4	4	6	6	6	2	3	3	2	1	2	3	4	4	4	4	4	4	5	4	4	4	4
15	4	4	5	4	6	4	4	3	1	2	3	4	4	4	4	4	4	4	5	6	6	6	5	6
16	6	6	6	4	5	5	1	1	4	2	2	2	3	1	2	2	4	5	5	5	6	6	6	4
17	4	6	4	5	5	5	4	4	2	1	1	1	1	1	1	1	4	5	5	4	4	4	4	5
18	5	5	4	5	4	5	1	4	3	1	1	1	2	3	3	4	4	6	6	5	4	6	4	4
19	6	4	4	****	6	5	4	4	3	1	1	1	1	1	1	1	3	6	6	5	4	4	4	4
20	4	5	5	6	6	5	3	3	4	3	4	1	1	2	1	4	4	5	4	6	5	5	4	****
21	6	6	6	4	****	6	4	4	1	3	2	1	1	1	3	4	4	4	4	6	5	4	4	4
22	5	5	6	5	4	6	4	4	4	4	3	1	2	2	4	4	4	5	6	5	6	5	5	5
23	4	5	5	5	5	5	4	4	2	2	1	1	1	1	3	4	4	4	6	5	6	6	4	4
24	6	6	6	6	6	5	1	4	2	3	2	1	1	1	1	2	4	5	5	6	4	5	6	6
25	6	5	****	****	5	****	2	****	4	1	3	1	1	1	1	1	4	5	6	6	4	6	5	5
26	6	****	****	****	6	4	4	4	4	2	1	1	1	1	1	2	4	5	6	4	6	4	5	5
27	4	4	4	6	4	6	4	4	4	3	1	1	1	2	4	4	4	4	5	5	5	6	6	6
28	6	6	6	5	5	6	4	3	4	1	1	1	1	1	1	4	4	5	6	4	6	4	6	5
29	6	6	6	6	6	6	3	1	4	1	1	1	1	1	2	1	3	5	6	5	6	6	6	5
30	6	6	6	6	5	6	1	1	3	3	2	4	3	4	4	4	4	4	5	6	6	6	5	6
31	4	6	6	6	6	6	4	3	1	1	1	1	1	1	1	3	4	4	4	6	6	6	6	5

PERCENT VALID HOURS FOR OCT, 1994 732*100/ 744= 98.4%

THREE HIGHEST VALUES FOR OCT, 1994 XXXX(DD,HH) = 6(1, 0) 6(1, 1) 6(1, 4). (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY YAMARTINO SIGMA THETA 8 M STABILITY CLASS — NOV, 1994

LEAST SIGNIFICANT DIGIT = 1.000 — STBSIG8

DAY \ HOUR	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	5	6	6	6	6	6	6	1	3	1	1	2	2	4	4	4	4	4	4	4	4	4	4	4
2	4	4	4	5	5	4	4	4	4	2	4	4	1	3	4	2	4	4	6	5	5	5	5	5
3	4	4	4	4	5	4	4	4	3	4	4	4	4	4	4	4	4	5	6	5	4	4	6	6
4	6	4	5	5	6	6	6	3	1	3	1	1	1	1	1	4	5	5	4	4	4	5	6	5
5	6	****	5	6	4	6	4	4	4	1	1	1	1	1	1	2	6	4	6	5	6	4	6	6
6	6	6	6	6	6	6	6	2	3	3	1	1	2	1	1	1	5	5	4	4	6	6	6	6
7	6	6	6	6	6	6	6	3	2	1	3	1	1	2	2	4	****	5	6	6	6	6	6	6
8	6	6	6	5	6	6	6	1	3	1	1	1	1	1	3	4	5	4	4	6	6	5	6	6
9	6	6	6	5	6	6	6	2	1	1	1	1	2	2	4	4	4	6	4	5	4	6	6	6
10	6	6	6	6	6	6	6	1	3	1	1	4	4	4	4	2	5	4	4	4	5	5	6	6
11	6	6	5	5	5	6	6	1	1	2	1	1	1	1	3	2	5	5	6	5	6	6	4	5
12	5	5	6	4	6	5	6	2	3	1	2	4	4	4	4	4	5	4	6	6	6	4	5	5
13	4	6	5	6	6	6	6	1	1	1	4	3	2	3	3	4	4	5	4	6	6	6	6	6
14	6	6	6	6	4	5	4	4	4	3	1	1	1	1	1	3	5	4	4	6	6	6	6	6
15	6	6	6	4	5	6	6	3	4	2	1	1	1	2	1	4	5	5	4	5	5	6	6	5
16	4	4	5	5	5	6	6	3	3	3	1	2	4	4	2	3	4	4	4	4	4	4	6	5
17	6	6	6	5	4	6	6	3	1	2	1	2	4	3	4	4	6	6	4	4	5	4	4	6
18	5	6	4	5	4	4	6	3	2	4	3	3	2	4	4	4	5	6	5	6	4	5	4	4
19	4	6	5	6	6	6	6	1	1	4	4	4	4	1	4	4	6	6	6	5	6	6	5	6
20	6	6	6	6	6	6	4	4	4	1	3	1	1	1	4	4	5	6	6	6	5	6	6	6
21	5	6	6	6	6	4	6	1	1	1	1	3	1	2	4	3	4	6	6	4	6	6	6	6
22	6	6	6	6	6	4	4	4	3	4	4	4	4	4	4	4	4	4	6	6	6	5	5	4
23	6	6	6	6	6	6	6	1	1	1	3	1	1	1	2	4	4	6	6	6	5	6	6	6
24	6	6	6	6	6	6	5	1	1	2	2	3	1	2	2	2	5	6	6	6	6	6	6	6
25	6	6	6	6	6	6	6	1	1	1	2	4	4	4	4	4	4	4	4	4	4	4	4	4
26	4	4	4	4	4	4	4	4	4	4	3	2	4	4	4	4	4	4	4	6	6	5	6	5
27	6	6	6	6	5	6	6	1	1	1	1	1	2	3	2	4	5	4	6	6	6	6	6	6
28	6	4	6	6	6	6	6	1	1	2	3	1	1	2	1	1	5	6	6	6	6	6	6	6
29	6	6	6	6	6	6	6	1	1	4	3	2	1	3	1	2	5	6	6	6	6	6	6	6
30	6	6	6	6	6	6	6	1	1	2	1	1	1	1	3	4	4	6	4	6	4	6	6	6

PERCENT VALID HOURS FOR NOV, 1994 718*100/ 720= 99.7%

THREE HIGHEST VALUES FOR NOV, 1994 XXXX(DD,HH) = 6(1, 1) 6(1, 2) 6(1, 3) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY YAMARTINO SIGMA THETA 8 M STABILITY CLASS DEC, 1994

LEAST SIGNIFICANT DIGIT = 1.000 STBSIG8

DAY	HOUR 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	6	6	6	6	6	6	4	1	1	2	2	1	1	2	1	4	6	6	6	6	6	6	6	6
2	6	6	6	6	6	6	5	3	3	2	1	2	4	4	2	4	6	5	4	5	6	6	6	6
3	6	6	6	6	6	6	6	1	1	1	1	1	1	1	2	3	6	6	6	5	6	6	6	6
4	6	6	6	6	6	6	6	1	1	1	1	3	1	2	2	1	6	6	6	5	5	6	6	6
5	6	6	6	6	6	6	6	1	1	1	3	1	1	1	4	4	4	4	4	5	5	6	6	6
6	6	6	5	6	5	6	6	1	3	2	1	1	1	1	3	4	4	4	6	6	6	6	6	6
7	6	6	6	6	6	6	6	1	1	3	1	1	1	1	2	3	5	6	6	6	6	6	6	6
8	6	6	6	6	6	5	5	4	4	4	4	4	4	4	4	3	4	****	****	****	****	****	****	****
9	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
11	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
12	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
15	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
18	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	****	****	****	****	****	****	****	****	****	****	****	4	4	6	6	6	6	6	6	6	6
20	6	6	6	6	6	6	6	1	1	1	1	1	1	1	3	3	6	4	6	6	6	6	6	6
21	6	6	6	6	6	6	6	1	1	1	1	3	1	3	2	1	6	6	6	6	6	6	6	6
22	6	6	6	5	6	6	6	1	1	1	1	1	1	3	2	1	6	6	6	6	6	6	6	6
23	6	5	4	5	5	6	5	2	1	3	1	2	1	3	1	3	4	4	6	4	5	4	6	6
24	4	6	4	4	4	4	6	4	1	3	3	4	1	4	1	1	6	5	5	4	4	6	6	5
25	6	6	6	4	5	4	6	1	4	4	4	2	2	4	2	1	4	5	5	4	4	6	4	5
26	6	5	5	5	4	6	6	4	4	4	4	4	4	4	4	4	5	4	6	6	4	6	6	6
27	4	6	6	6	6	6	6	2	1	2	1	3	1	1	1	4	5	6	6	5	5	5	6	6
28	6	6	6	6	5	6	6	1	3	2	1	1	2	4	4	4	4	4	5	5	4	6	5	6
29	4	4	5	4	6	6	4	1	2	3	1	1	2	4	4	3	5	6	6	6	6	5	6	4
30	4	5	4	4	4	4	6	1	2	4	4	4	1	1	3	3	5	4	5	6	4	6	5	6
31	6	4	6	6	6	6	6	1	1	3	3	3	3	1	1	4	4	6	5	6	6	4	6	6

PERCENT VALID HOURS FOR DEC, 1994 483*100/ 744= 64.9%

THREE HIGHEST VALUES FOR DEC, 1994 XXXX(DD,HH) = 6(1, 0) 6(1, 1) 6(1, 2) .(FIRST OCCURRENCE IN MONTH)