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24 M METEOROLOGICAL TOWER DATA REPORT PERIOD: JANUARY THROUGH DECEMBER, 1996

Submitted to:
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December 1997

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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, 1996, providing:

- a status of the measurement systems 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.

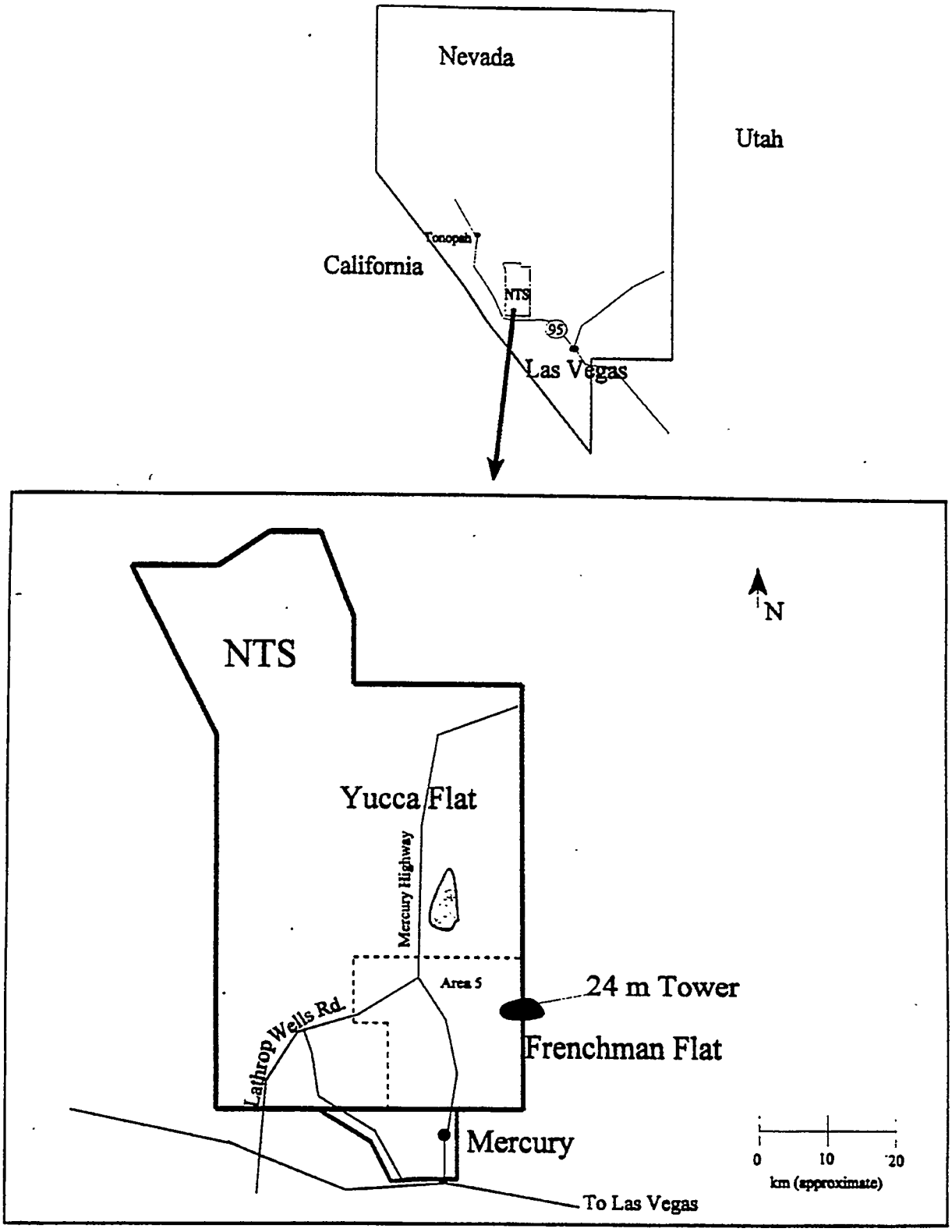

Figure 1-1 Location of Project

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. Low January data recovery for 1/4, 1/2, and 1 m wind speed and direction was caused by broken sensors at three levels, which were replaced in late January. Other data losses were primarily caused by data transmission losses.

Table 3-1 Operational Summary

Start Date	Event	End Date	Action
1/30/96	Broken tails and props at 1/4, 1/2, and 1 meter.	Not Applicable	Replaced tails and props for the 1/4, 1/2, and 1 meter wind speed and direction units with white styro tails and black plastic props.
2/15/96	Damaged props at 2 m and 4 m levels (tails were good).	Not Applicable	Replaced tails and props at 2 m and 4 m levels with white styro tails and black plastic props.
2/7/96	Replacement of tails and props (replaced items were good)	Not Applicable	Replaced tails and props at 8 m and 16 m levels with white styro tails and black plastic props.
2/29/96	Replacement of tails and props (replaced items were good)	Not applicable	Replaced tails and props at 24 m level with white styro tails and black plastic props.

Table 3-2 Data Recovery for Each Measurement by Month, 1996

Measurement	January	February	March	April	May	June	July	August	September	October	November	December
Wind Speed and Direction												
24 m	74.2	84.1	82.7	96.8	100.0	100.0	100.0	98.4	90.4	84.1	75.1	58.7
16 m	74.2	85.1	82.7	96.8	100.0	100.0	100.0	98.4	90.4	84.1	75.1	58.7
8 m	74.2	83.8	82.7	96.8	100.0	100.0	100.0	98.4	90.4	84.1	75.1	58.7
4 m	74.2	83.9	82.7	96.8	100.0	100.0	100.0	98.4	90.4	84.1	75.1	58.7
2 m	74.2	84.9	82.7	96.8	100.0	100.0	100.0	98.4	90.4	84.1	75.1	58.7
1 m	3.2	84.9	82.7	96.8	100.0	100.0	100.0	98.4	90.4	84.1	75.1	58.6
0.5 m	3.2	84.8	82.7	96.8	100.0	100.0	100.0	98.4	90.4	84.1	75.1	58.7
0.25 m	3.2	84.6	82.7	96.8	100.0	100.0	100.0	98.4	90.4	84.1	75.1	58.7
Temperature												
24 m	74.2	85.1	82.7	96.8	99.9	100.0	100.0	98.4	90.4	83.9	75.1	58.7
16 m	74.2	85.1	82.7	96.8	99.9	100.0	100.0	98.4	90.4	83.9	75.1	58.7
8 m	74.2	85.1	82.7	96.8	99.9	100.0	100.0	98.4	90.4	83.9	75.1	58.7
4 m	74.2	85.1	82.7	96.8	99.9	100.0	100.0	98.4	90.4	83.9	75.1	58.7
2 m	74.2	85.1	82.7	96.8	99.9	100.0	100.0	98.4	90.4	83.9	75.1	58.7
1 m	74.2	85.1	82.7	96.8	99.9	100.0	100.0	98.4	90.4	83.9	75.1	58.7
0.5 m	74.2	85.1	82.7	96.8	99.9	100.0	100.0	98.4	90.4	83.9	75.1	58.7
0.25 m	74.2	85.1	82.7	96.8	99.9	100.0	100.0	98.4	90.4	83.9	75.1	58.7
Soil												
Relative Humidity												
16 m	74.2	85.1	82.7	96.8	100.0	100.0	100.0	98.4	90.4	83.9	75.1	58.7
4 m	74.2	85.1	82.7	96.8	100.0	100.0	100.0	98.4	90.4	83.9	75.1	58.7
1 m	74.2	85.1	82.7	96.8	100.0	100.0	100.0	98.4	90.4	83.9	75.1	58.7
Solar Radiation	74.2	85.1	82.7	96.8	100.0	100.0	100.0	98.4	90.4	83.9	75.1	58.7
Net Radiation	74.2	85.1	82.7	96.8	100.0	100.0	100.0	98.4	90.4	83.9	75.1	58.7
Barometric Pressure	74.2	85.1	82.7	96.8	100.0	100.0	100.0	98.4	90.4	83.9	75.1	58.7

4.0 DATA QUALITY ASSURANCE

Wind speed and direction sensors at all levels were replaced in January - February, and incoming raw data for 1996 were examined at DRI for reasonability. There were no calibration checks performed in 1996 because of budget limitations.

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, 1996

Month	Tower Height (m)	Monthly Mean	Monthly Max	Monthly Min	Mean Daily Max	Mean Daily Min	% Data Recovery
January	24	2.36	13.81	0.31	5.51	0.88	74.2
	16	2.32	13.03	0.36	5.18	0.98	74.2
	8	2.14	12.64	0.28	4.81	0.83	74.2
	4	1.96	11.91	0.33	4.37	0.76	74.2
	2	1.76	10.95	0.34	3.88	0.70	74.2
	1	1.11	2.21	0.53	2.21	0.53	3.2
	0.5	1.00	2.03	0.48	2.03	0.48	3.2
	0.25	0.91	1.95	0.37	1.95	0.37	3.2
February	24	2.51	15.97	0.01	5.77	0.93	84.1
	16	2.57	14.88	0.32	5.66	1.05	85.1
	8	2.20	13.53	0.20	4.89	0.78	83.8
	4	2.05	12.77	0.01	4.54	0.75	83.9
	2	1.87	12.03	0.01	4.22	0.73	84.9
	1	1.70	11.21	0.05	3.90	0.72	84.9
	0.5	1.53	10.32	0.05	3.57	0.61	84.8
	0.25	1.40	9.66	0.01	3.33	0.50	84.6
March	24	3.39	17.33	0.15	7.62	1.00	82.7
	16	3.40	16.75	0.34	7.36	1.27	82.7
	8	3.03	15.48	0.20	6.79	0.98	82.7
	4	2.84	14.78	0.25	6.42	0.94	82.7
	2	2.63	14.06	0.31	6.01	0.91	82.7
	1	2.42	13.17	0.20	5.58	0.82	82.7
	0.5	2.24	12.18	0.19	5.20	0.74	82.7
	0.25	2.06	11.29	0.12	4.85	0.60	82.7
April	24	4.37	15.84	0.22	8.35	1.43	96.8
	16	4.27	15.22	0.56	8.13	1.56	96.8
	8	3.88	13.97	0.12	7.50	1.27	96.8
	4	3.65	13.31	0.27	7.13	1.20	96.8
	2	3.40	12.62	0.33	6.69	1.12	96.8
	1	3.14	11.81	0.39	6.26	1.03	96.8
	0.5	2.91	10.85	0.27	5.82	0.92	96.8
	0.25	2.71	10.04	0.20	5.44	0.79	96.8
May	24	4.33	14.95	0.24	8.66	0.89	100.0
	16	4.25	14.52	0.48	8.39	1.16	100.0
	8	3.85	13.42	0.03	7.88	0.75	100.0
	4	3.63	12.77	0.09	7.53	0.74	100.0
	2	3.39	12.07	0.37	7.10	0.74	100.0
	1	3.15	11.32	0.37	6.66	0.73	100.0
	0.5	2.90	10.45	0.35	6.19	0.65	100.0
	0.25	2.70	9.78	0.16	5.79	0.54	100.0
June	24	3.80	14.56	0.20	8.53	0.66	100.0
	16	3.77	14.27	0.46	8.28	0.86	100.0
	8	3.38	13.39	0.20	7.72	0.61	100.0
	4	3.19	12.80	0.27	7.39	0.62	100.0
	2	2.97	12.04	0.39	6.97	0.62	100.0
	1	2.76	11.30	0.37	6.54	0.61	100.0
	0.5	2.54	10.43	0.23	6.08	0.55	100.0
	0.25	2.35	9.70	0.17	5.69	0.45	100.0

Table 5-2 Summary Wind Speed Data - January - December, 1996 Cont.

Month	Tower Height (m)	Monthly Mean	Monthly Max	Monthly Min	Mean Daily Max	Mean Daily Min	% Data Recovery
July	24	3.54	18.03	0.23	8.35	0.61	100.0
	16	3.45	17.65	0.44	8.10	0.72	100.0
	8	3.14	15.24	0.18	7.58	0.52	100.0
	4	2.96	13.74	0.22	7.24	0.55	100.0
	2	2.75	12.53	0.24	6.80	0.53	100.0
	1	2.55	11.69	0.32	6.39	0.52	100.0
	0.5	2.35	9.67	0.17	5.91	0.48	100.0
	0.25	2.18	9.56	0.09	5.55	0.39	100.0
August	24	3.26	13.27	0.09	7.96	0.55	98.4
	16	3.25	12.69	0.54	7.61	0.77	98.4
	8	2.88	11.58	0.09	6.99	0.53	98.4
	4	2.71	10.98	0.19	6.63	0.56	98.4
	2	2.51	10.34	0.23	6.21	0.56	98.4
	1	2.31	9.60	0.30	5.80	0.54	98.4
	0.5	2.12	8.88	0.21	5.39	0.50	98.4
	0.25	1.82	8.31	0.06	4.95	0.33	98.4
September	24	3.21	14.20	0.23	7.32	0.56	90.4
	16	3.26	13.89	0.47	7.00	0.93	90.4
	8	2.84	13.02	0.23	6.46	0.62	90.4
	4	2.67	12.44	0.18	6.13	0.61	90.4
	2	2.46	11.72	0.36	5.73	0.59	90.4
	1	2.22	11.00	0.16	5.30	0.49	90.4
	0.5	2.08	10.17	0.26	4.94	0.51	90.4
	0.25	1.91	9.46	0.10	4.62	0.38	90.4
October	24	2.69	13.09	0.08	6.45	0.93	84.1
	16	2.84	12.45	0.46	6.16	1.24	84.1
	8	2.40	11.60	0.20	5.57	0.86	84.1
	4	2.26	10.97	0.27	5.22	0.88	84.1
	2	2.07	10.27	0.30	4.81	0.83	84.1
	1	1.81	9.63	0.07	4.43	0.58	84.1
	0.5	1.73	9.11	0.26	4.16	0.66	84.1
	0.25	1.59	8.54	0.20	3.90	0.54	84.1
November	24	2.58	12.05	0.17	4.93	0.87	75.1
	16	2.75	11.41	0.36	4.84	1.09	75.1
	8	2.28	10.44	0.15	4.33	0.78	75.1
	4	2.12	9.94	0.24	3.99	0.79	75.1
	2	1.93	9.33	0.31	3.61	0.75	75.1
	1	1.57	8.73	0.01	3.17	0.44	75.1
	0.5	1.58	8.15	0.24	2.99	0.58	75.1
	0.25	1.45	7.68	0.24	2.77	0.48	75.1
December	24	2.83	16.40	0.20	4.78	0.84	58.7
	16	2.97	15.79	0.70	4.86	1.25	58.7
	8	2.51	14.40	0.17	4.14	0.81	58.7
	4	2.34	13.68	0.18	3.80	0.78	58.7
	2	2.15	12.95	0.36	3.46	0.78	58.7
	1	1.86	12.11	0.09	3.10	0.48	58.6
	0.5	1.59	8.58	0.20	2.55	0.57	58.7
	0.25	1.63	10.41	0.15	2.66	0.51	58.7

Table 5-3 Summary Temperature Data - January - December, 1996

Month	Tower Height (m)	Monthly Mean	Monthly Max	Monthly Min	Mean Daily Max	Mean Daily Min	% Data Recovery
January	24	5.11	19.70	-8.67	13.42	-1.75	74.2
	16	4.83	19.78	-9.50	13.52	-2.39	74.2
	8	4.61	20.32	-9.96	14.00	-2.97	74.2
	4	3.72	19.85	-10.72	13.52	-3.97	74.2
	2	3.42	19.93	-10.86	13.61	-4.34	74.2
	1	2.48	18.87	-11.18	12.60	-4.93	74.2
	0.5	2.65	19.45	-11.52	13.19	-5.01	74.2
	0.25	2.46	19.35	-11.57	13.08	-5.11	74.2
	soil						
February	24	8.76	23.88	-8.69	15.91	2.40	85.1
	16	8.56	23.94	-8.82	16.06	1.99	85.1
	8	8.57	24.53	-8.84	16.66	1.63	85.1
	4	7.80	24.11	-9.44	16.30	0.66	85.1
	2	7.62	24.26	-9.48	16.51	0.32	85.1
	1	6.69	23.14	-9.64	15.68	-0.48	85.1
	0.5	6.97	23.91	-9.86	16.34	-0.36	85.1
	0.25	6.80	23.70	-9.79	16.31	-0.48	85.1
	soil						
March	24	10.86	25.14	-4.35	18.05	3.35	82.7
	16	10.71	25.22	-4.61	18.07	2.87	82.7
	8	10.79	25.94	-4.55	18.58	2.42	82.7
	4	10.08	25.68	-5.59	18.20	1.41	82.7
	2	9.98	26.08	-5.75	18.45	0.99	82.7
	1	9.14	25.55	-6.34	17.76	0.13	82.7
	0.5	9.46	26.61	-6.45	18.46	0.19	82.7
	0.25	9.36	26.90	-6.60	18.59	0.01	82.7
	soil						
April	24	16.42	31.46	2.62	22.79	8.53	96.8
	16	16.29	31.46	1.55	22.90	8.01	96.8
	8	16.46	32.08	0.12	23.55	7.47	96.8
	4	15.77	31.73	-1.57	23.23	6.38	96.8
	2	15.74	32.06	-2.11	23.59	6.00	96.8
	1	14.97	31.40	-2.69	23.09	5.17	96.8
	0.5	15.31	32.21	-2.64	23.82	5.24	96.8
	0.25	15.22	32.44	-2.66	24.10	5.03	96.8
	soil						
May	24	20.85	35.31	7.42	27.07	12.52	100.0
	16	20.70	35.30	6.97	27.16	12.09	100.0
	8	20.90	35.99	6.75	27.86	11.66	100.0
	4	20.25	35.69	5.31	27.60	10.66	100.0
	2	20.28	36.10	4.98	28.03	10.37	100.0
	1	19.94	35.98	4.26	28.11	9.83	100.0
	0.5	19.94	36.46	4.21	28.46	9.63	100.0
	0.25	19.87	36.81	4.08	28.80	9.41	100.0
	soil						

Table 5-3 Summary Temperature Data - January - December, 1996 Cont.

Month	Tower Height (m)	Monthly Mean	Monthly Max	Monthly Min	Mean Daily Max	Mean Daily Min	% Data Recovery
June	24	26.19	37.55	7.87	33.26	15.94	100.0
	16	25.90	37.56	7.62	33.31	15.20	100.0
	8	25.99	38.26	7.02	34.05	14.56	100.0
	4	25.25	37.99	5.56	33.81	13.39	100.0
	2	25.25	38.64	5.05	34.36	12.90	100.0
	1	25.03	39.04	4.62	34.74	12.36	100.0
	0.5	24.89	39.38	4.31	34.98	12.02	100.0
	0.25	24.78	39.70	4.16	35.34	11.71	100.0
	soil						
July	24	30.25	39.78	14.60	36.59	21.65	100.0
	16	30.03	39.74	13.81	36.60	21.21	100.0
	8	30.25	40.53	13.00	37.36	20.86	100.0
	4	29.60	40.37	11.68	37.13	19.81	100.0
	2	29.69	40.97	10.77	37.69	19.51	100.0
	1	29.52	41.43	10.19	38.07	19.05	100.0
	0.5	29.41	41.69	9.90	38.31	18.79	100.0
	0.25	29.31	42.08	9.72	38.66	18.55	100.0
	soil						
August	24	28.49	38.95	12.62	35.98	18.73	98.4
	16	28.17	38.92	11.61	35.99	18.07	98.4
	8	28.22	39.65	10.03	36.74	17.50	98.4
	4	27.45	39.37	8.18	36.48	16.33	98.4
	2	27.42	39.80	7.85	37.01	15.92	98.4
	1	27.14	40.19	7.60	37.32	15.40	98.4
	0.5	26.95	40.49	7.40	37.46	15.11	98.4
	0.25	26.78	40.93	7.32	37.75	14.87	98.4
	soil						
September	24	22.53	36.25	4.83	28.55	14.00	90.4
	16	22.28	36.24	4.54	28.56	13.45	90.4
	8	22.34	36.98	4.14	29.14	12.86	90.4
	4	21.58	36.74	3.45	28.78	11.75	90.4
	2	21.49	37.19	3.17	29.11	11.31	90.4
	1	21.20	37.45	2.76	29.27	10.82	90.4
	0.5	20.97	37.51	2.46	29.29	10.49	90.4
	0.25	20.82	37.67	2.33	29.47	10.24	90.4
	soil						
October	24	15.01	34.06	-4.48	21.36	6.34	83.9
	16	14.79	34.07	-5.31	21.41	5.83	83.9
	8	14.79	34.77	-6.35	21.95	5.45	83.9
	4	13.98	34.38	-7.61	21.53	4.44	83.9
	2	13.78	34.78	-8.30	21.76	3.99	83.9
	1	13.42	34.74	-8.65	21.74	3.54	83.9
	0.5	13.09	34.52	-8.98	21.64	3.18	83.9
	0.25	12.90	34.57	-9.06	21.67	2.97	83.9
	soil						

Table 5-3 Summary Temperature Data - January - December, 1996 Cont.

Month	Tower Height (m)	Monthly			Mean Daily		% Data Recovery
		Mean	Max	Min	Max	Min	
November	24	9.37	24.14	-3.16	15.76	3.38	75.1
	16	9.17	24.23	-3.51	15.77	3.03	75.1
	8	9.14	24.71	-3.93	16.17	2.73	75.1
	4	8.32	24.12	-4.83	15.64	1.67	75.1
	2	8.06	24.17	-5.27	15.68	1.26	75.1
	1	7.64	23.81	-5.53	15.44	0.86	75.1
	0.5	7.28	23.71	-5.91	15.20	0.53	75.1
	0.25	7.03	23.52	-6.07	15.04	0.36	75.1
	soil						
December	24	5.25	15.45	-6.83	9.46	0.45	58.7
	16	5.15	15.51	-7.31	9.46	0.15	58.7
	8	5.23	15.94	-7.43	9.74	-0.08	58.7
	4	4.49	15.38	-8.27	9.14	-0.88	58.7
	2	4.29	15.48	-8.59	9.06	-1.19	58.7
	1	3.92	15.39	-8.89	8.75	-1.50	58.7
	0.5	3.58	15.13	-9.19	8.45	-1.80	58.7
	0.25	3.40	14.98	-9.27	8.25	-1.89	58.7
	soil						

Table 5-4 Summary of Relative Humidity, Radiation and Barometric Pressure - January through December, 1996

	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	40	41	39	52	54	54	32	33	32	19	19	18	23	23	22	14	14	13
Maximum	100	100	100	100	100	100	100	100	100	63	66	68	97	99	99	85	86	88
Minimum	10	10	10	12	12	11	9	9	8	4	4	3	5	4	4	5	5	4
Mean Daily Max	58	57	55	72	74	73	51	52	51	30	31	29	35	35	33	24	24	22
Mean Daily Min	27	27	26	32	32	31	18	18	17	11	11	10	12.90	13	11	8	8	7
Data Recovery (%)	74	74	74	85	85	85	83	83	83	97	97	97	100	100	100	100	100	100
Solar Radiation (W/m^2)																		
Mean			117			151			246			303			320			361
Maximum			647			837			947			1014			1043			1060
Minimum			0			0			0			0			0			0
Mean Daily Max			447			572			761			917			984			1012
Mean Daily Min			0			6			20			0			0			0
Data Recovery (%)			74			85			83			97			100			100
Net Radiation (W/m^2)																		
Mean			12			32			59			75			86			102
Maximum			215			404			409			418			456			472
Minimum			-61			-60			-70			-78			-74			-65
Mean Daily Max			150			222			302			365			397			422
Mean Daily Min			-41			-40			-46			-62			-57			-58
Data Recovery (%)			74			85			83			97			100			100
Atmospheric Pressure (mb)																		
Mean			909			908			907			907			902			903
Maximum			922			918			918			917			912			914
Minimum			890			895			890			896			895			896
Mean Daily Max			912			910			910			909			905			906
Mean Daily Min			906			906			904			904			900			901
Data Recovery (%)			74			85			83			97			100			100

Table 5-4 Summary of Relative Humidity, Radiation and Barometric Pressure - January through December, 1996 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	23	23	22	17	17	15	24	24	22	29	29	27	49	53	55	70	73	74
Maximum	81	83	80	62	68	65	53	54	53	100	100	100	100	100	100	100	100	100
Minimum	6	5	5	6	6	5	8	8	7	5	5	4	8	11	12	17	18	19
Mean Daily Max	36	36	34	26	26	23	34	33	30	41	40	38	72	78	81	90	93	93
Mean Daily Min	14	14	12	10	9	8	16	15	14	22	21	20	31	33	34	51	53	54
Data Recovery (%)	100	100	100	98	98	98	90	90	90	84	84	84	75	75	75	59	59	59
Solar Radiation (W/m^2)																		
Mean			331			303			257			188			136			88
Maximum			1061			1009			927			816			665			570
Minimum			0			0			0			0			0			0
Mean Daily Max			977			926			752			599			460			308
Mean Daily Min			0			0			0			0			0			0
Data Recovery (%)			100			98			90			84			75			59
Net Radiation (W/m^2)																		
Mean			90			68			33			12			1			-4
Maximum			424			412			287			210			231			168
Minimum			-59			-57			-56			-73			-89			-95
Mean Daily Max			394			320			196			131			114			65
Mean Daily Min			-44			-43			-42			-42			-57			-45
Data Recovery (%)			100			98			90			84			75			59
Atmospheric Pressure (mb)																		
Mean			905			905			904			906			910			907
Maximum			912			911			914			918			921			919
Minimum			898			898			895			893			897			895
Mean Daily Max			907			907			906			909			912			910
Mean Daily Min			903			903			902			904			906			905
Data Recovery (%)			100			98			90			84			75			59

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

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APPENDICES

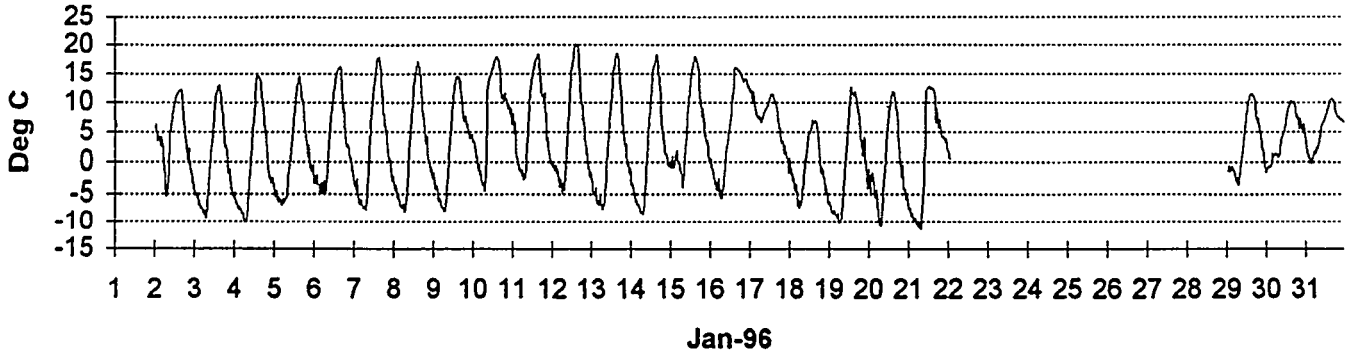
Appendix A	**Selected Time Series Plots, Two and Eight Meters**
Appendix B	**Monthly Wind Roses, Two and Eight Meters**
Appendix C	**Monthly Wind Frequency Distributions, Two and Eight Meters**
Appendix D	**Tabulated Hourly Richardson Numbers, Monin-Obukhov Lengths Estimated from Richardson Numbers,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

APPENDIX A: TIME SERIES PLOTS --15 MINUTE AVERAGES

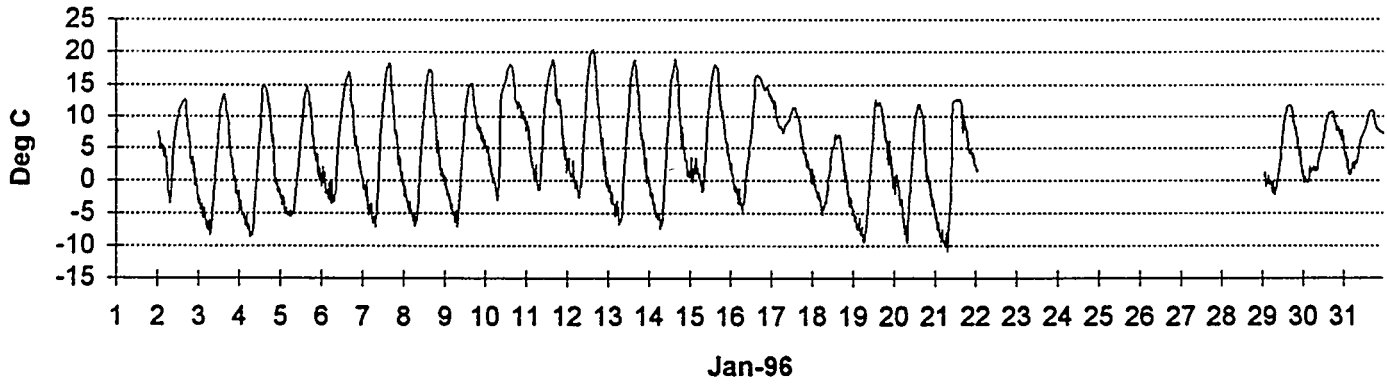
Each Month, January - December, 1996

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

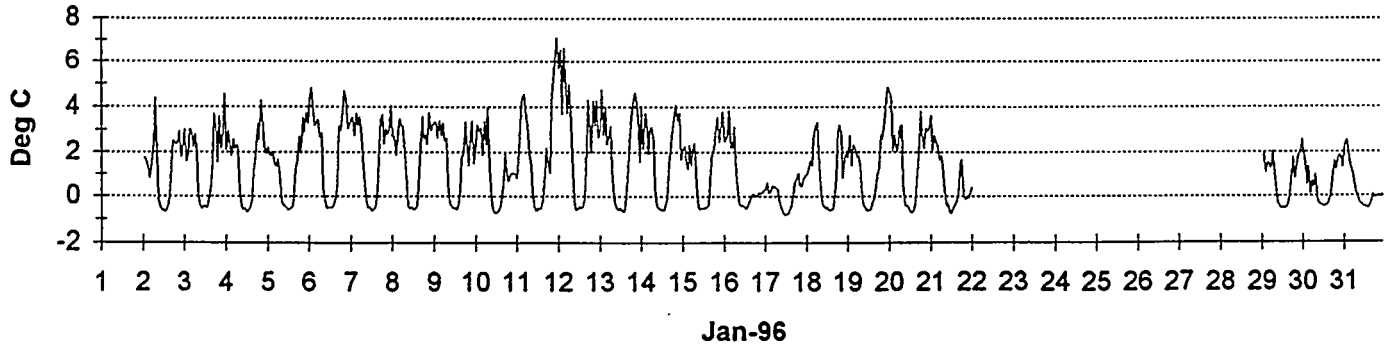
2 METER TEMPERATURE

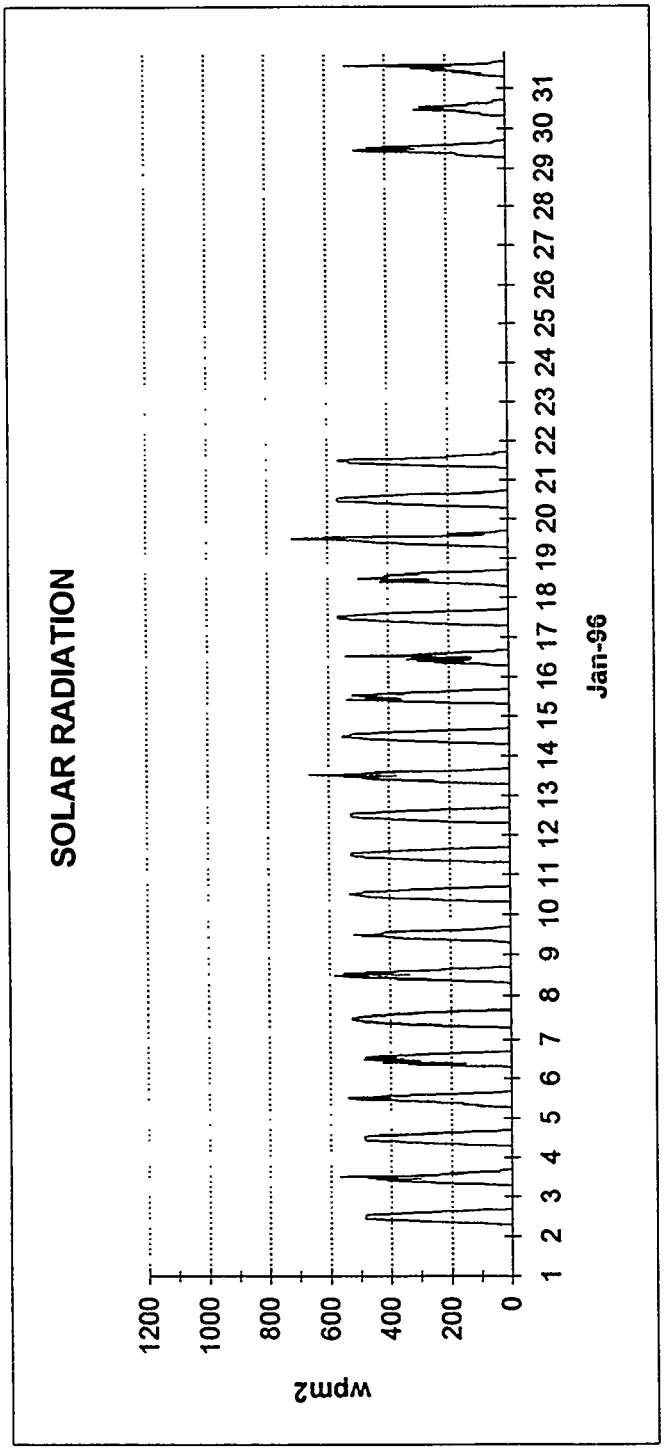


8 METER TEMPERATURE



TEMPERATURE DIFFERENCE, 2 TO 16 METER




SOLAR RADIATION
wpm2
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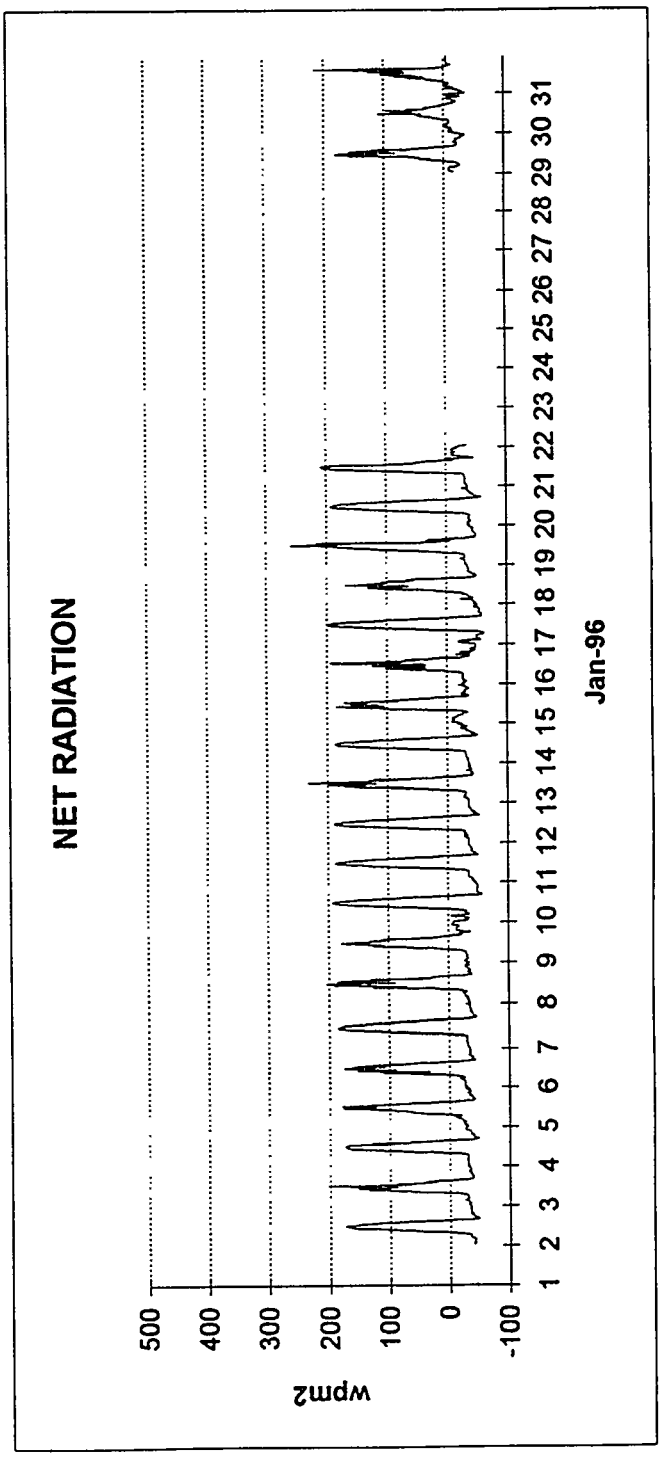
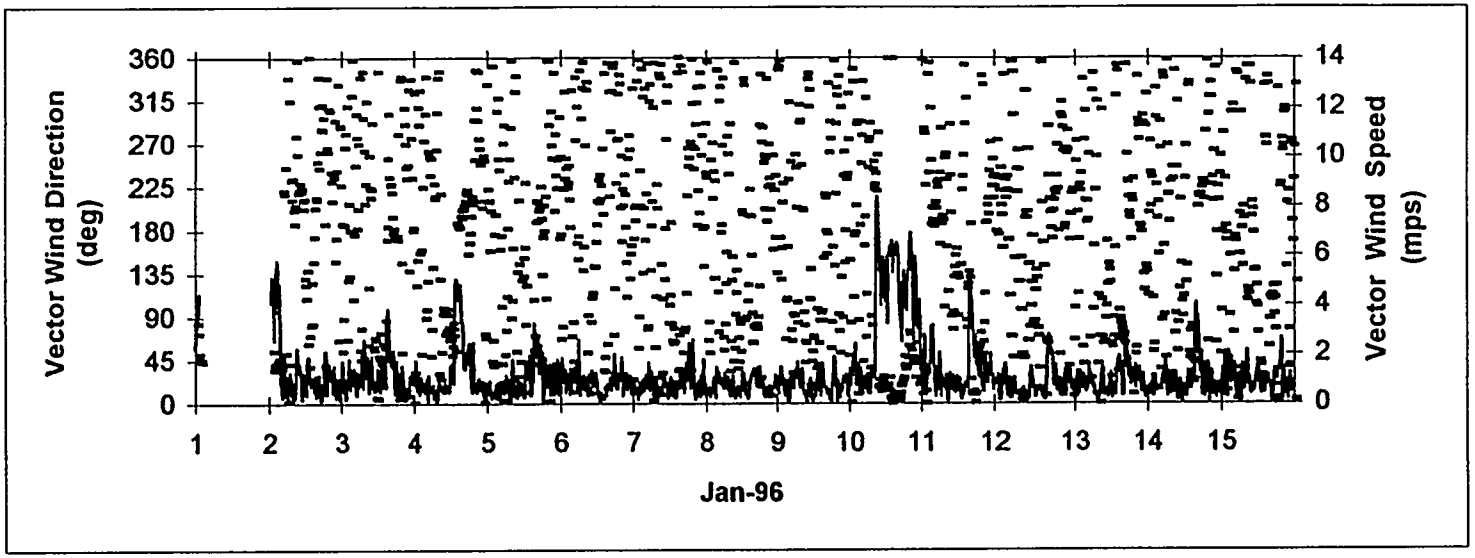
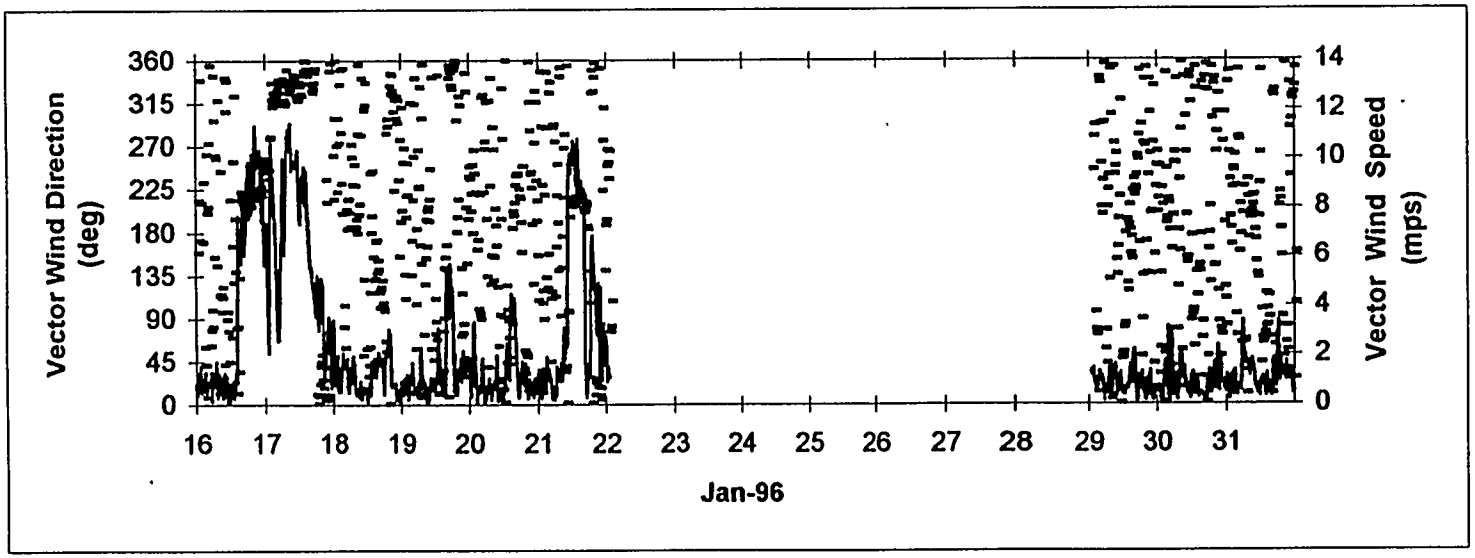
1000
800
600
400
200
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Jan-96

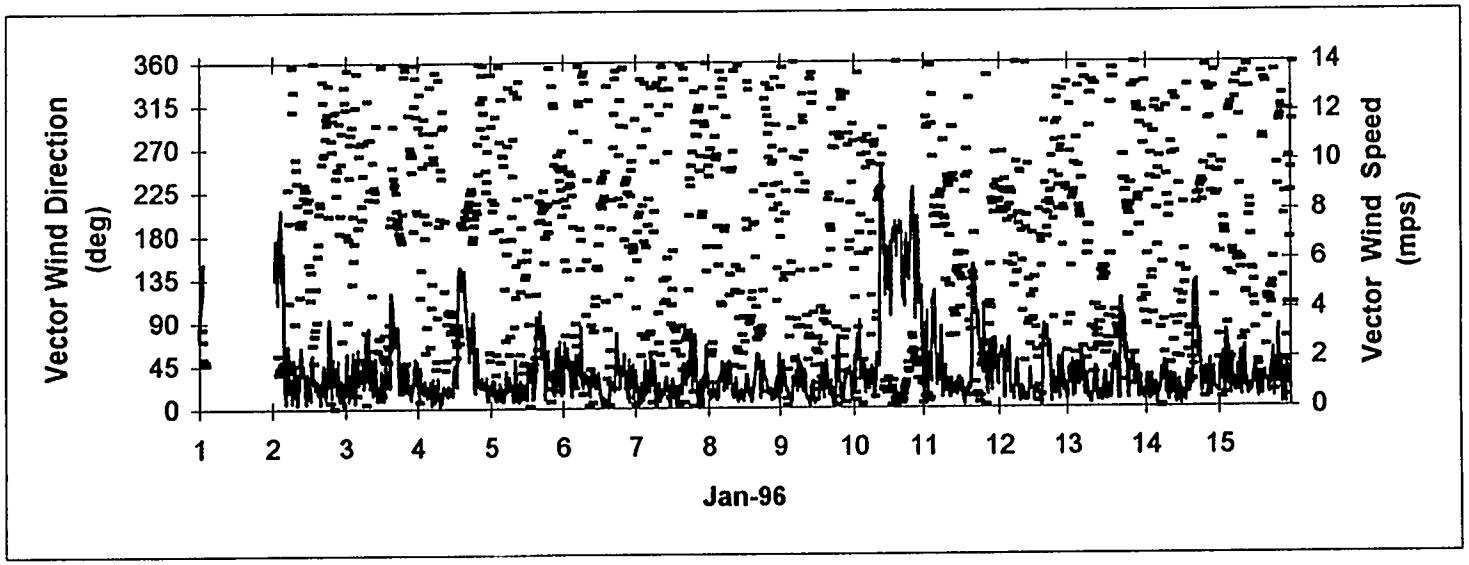

NET RADIATION
wpm2
500
400
300
200
100
0
-100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Jan-96

2 METER


Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
14
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Jan-96


Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
14
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Jan-96

8 METER


Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
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Vector Wind Speed (mps)
14
12
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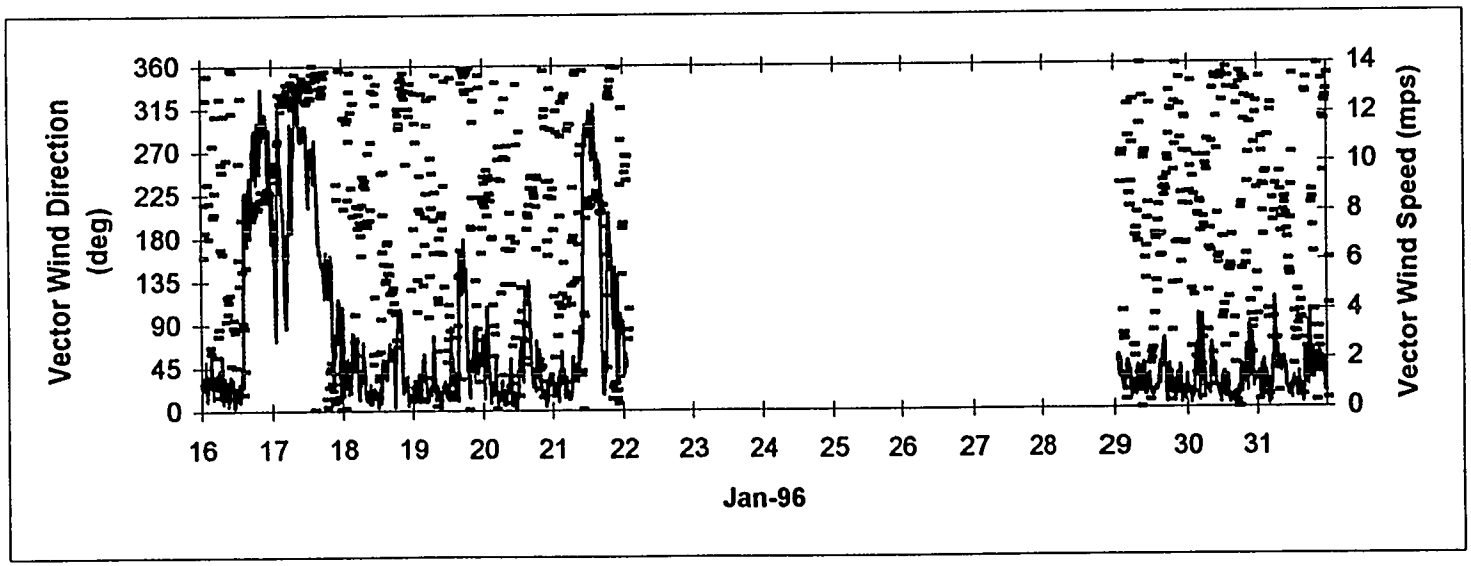
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Jan-96


Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
14
12
10
8
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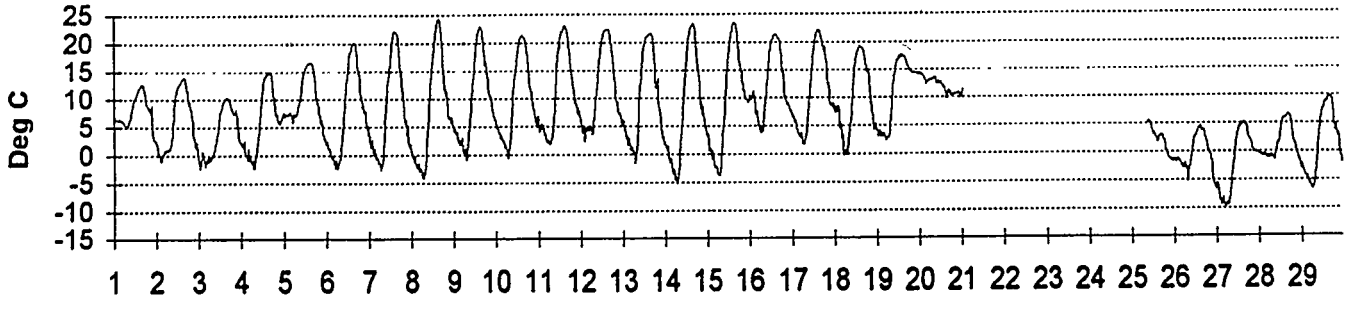
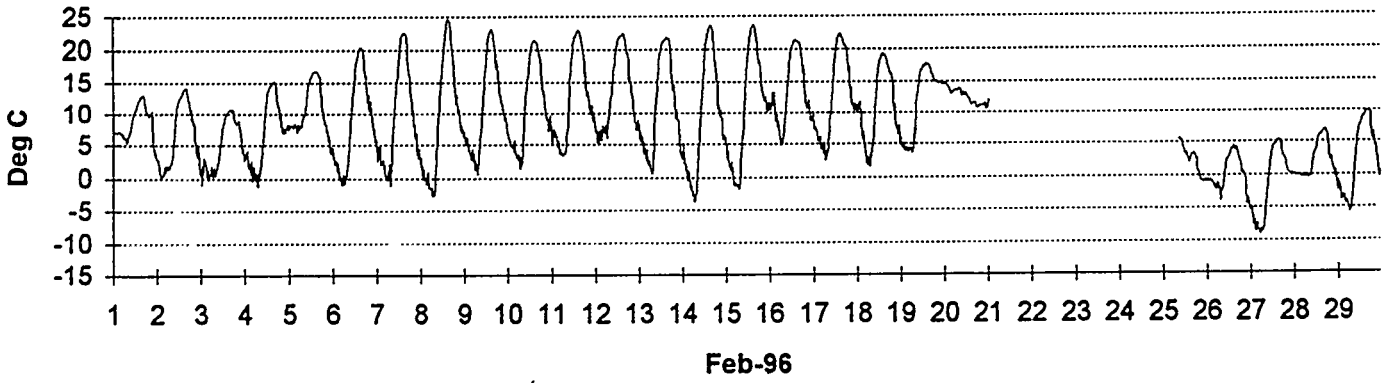
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Jan-96

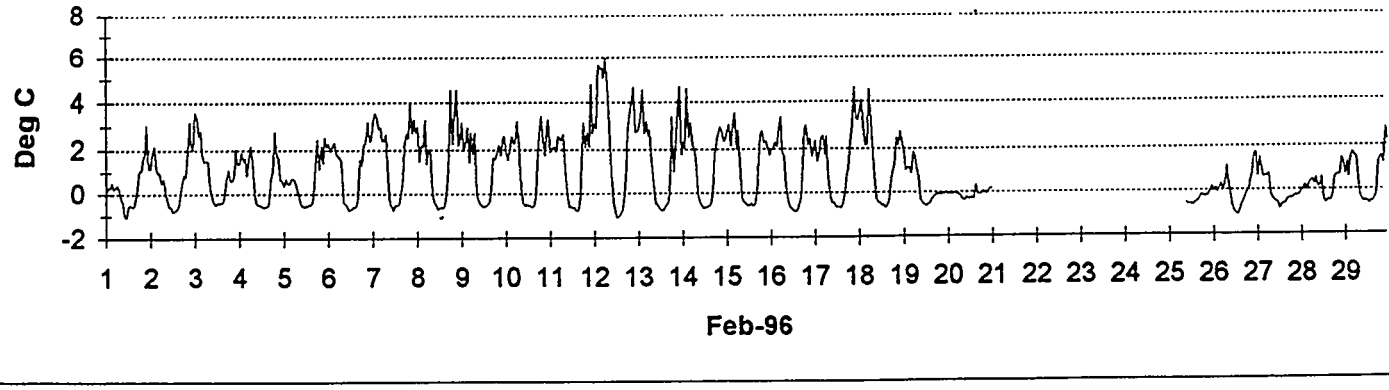
2 METER TEMPERATURE

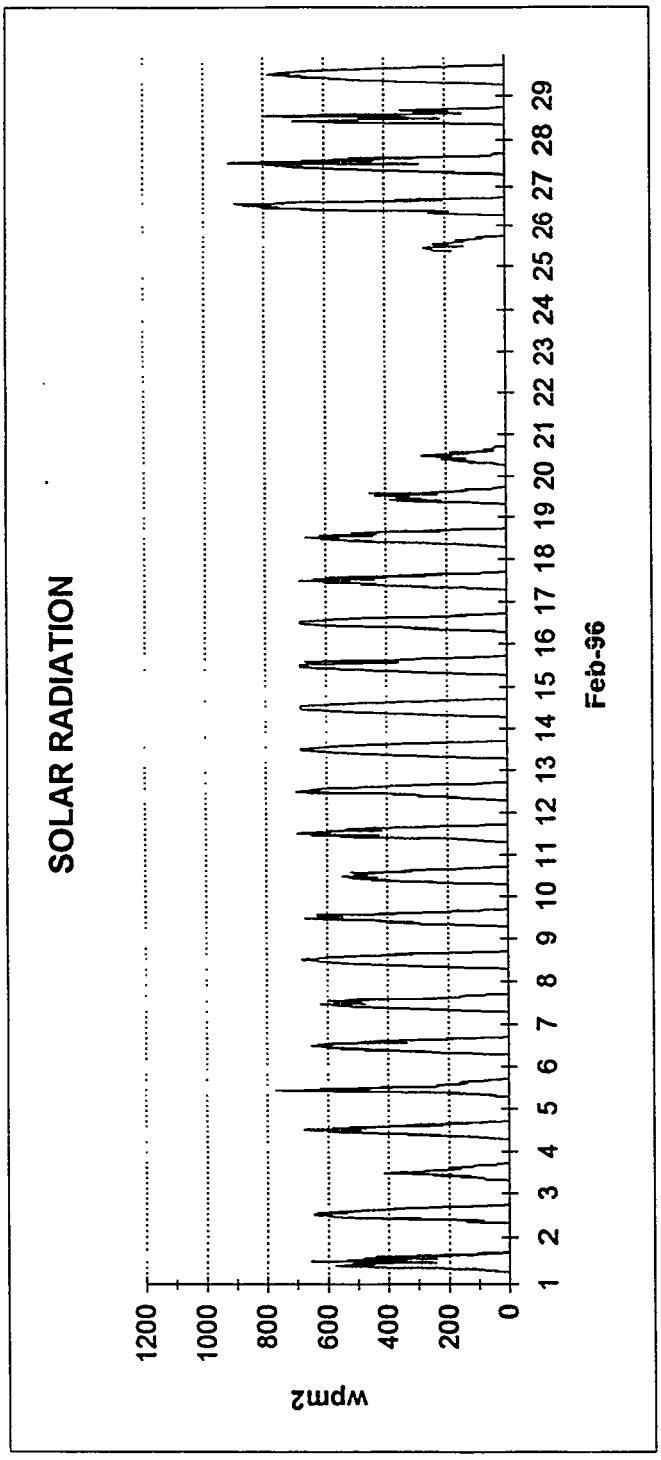


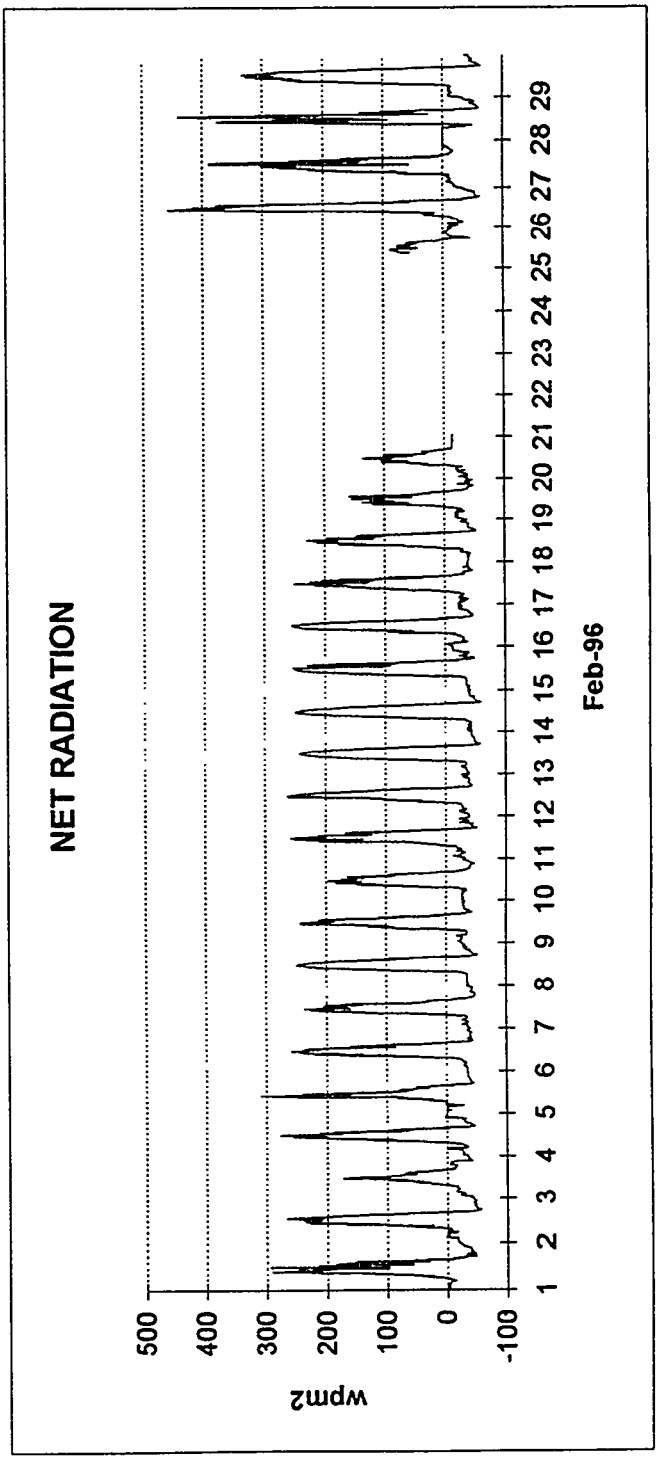
8 METER TEMPERATURE



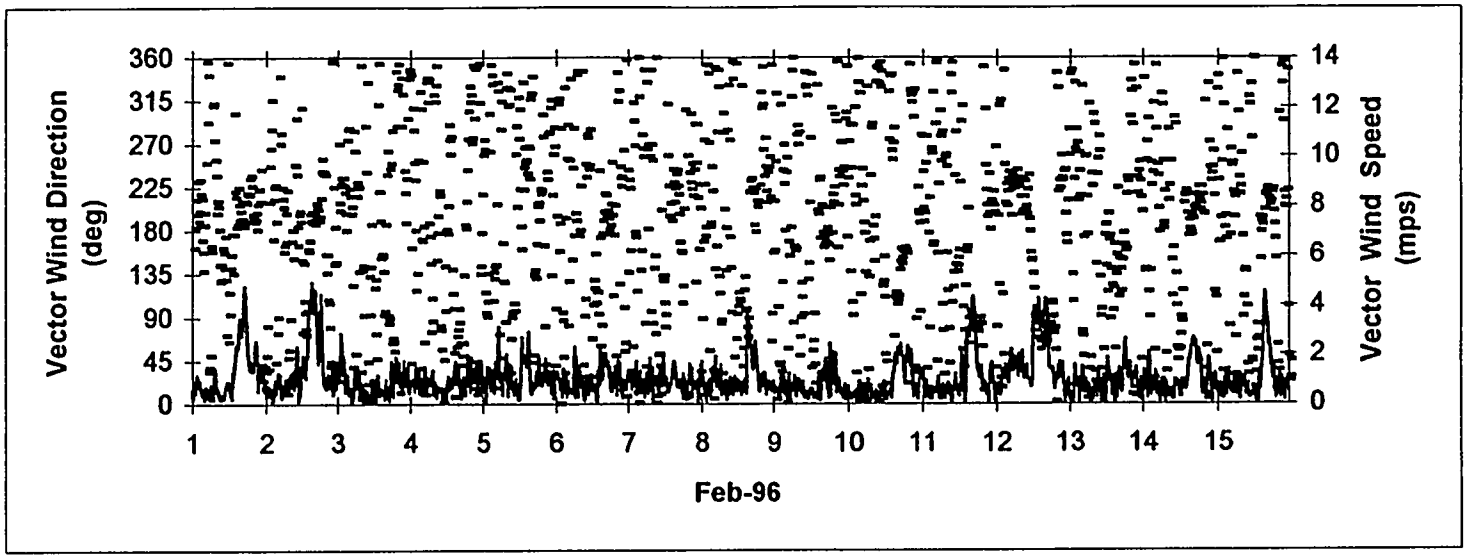
TEMPERATURE DIFFERENCE, 2 TO 16 METER




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
Feb-96


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
Feb-96

2 METER


Vector Wind Direction (deg)
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Vector Wind Speed (mps)
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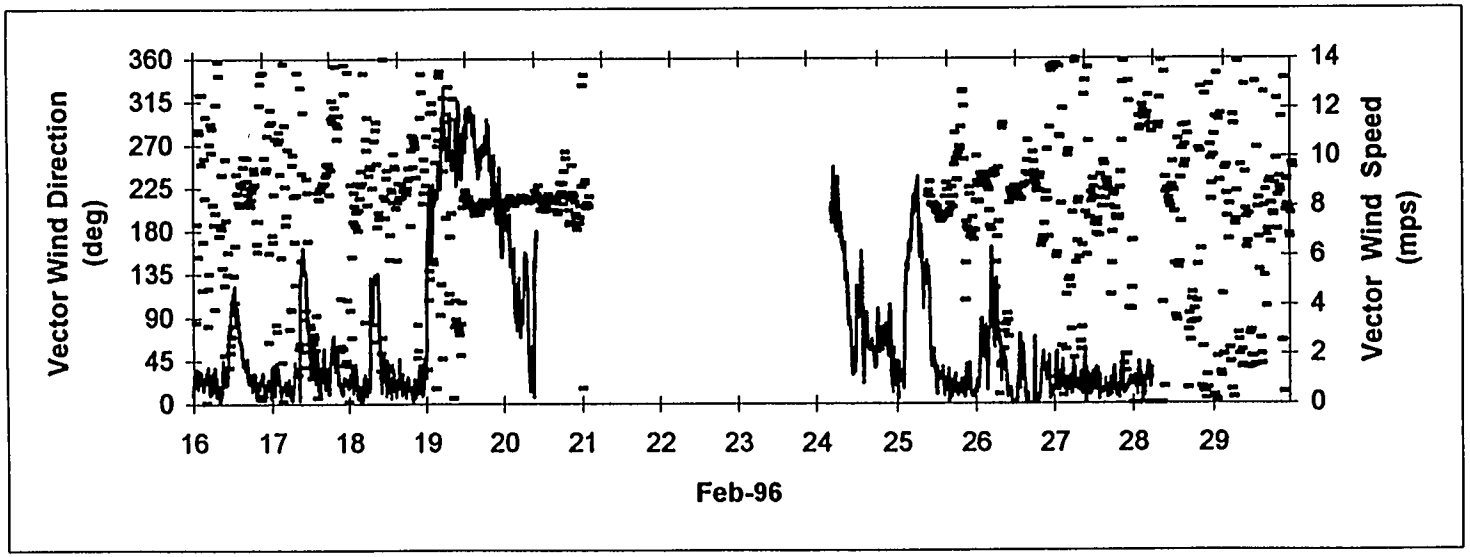
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Feb-96


Vector Wind Direction (deg)
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Vector Wind Speed (mps)
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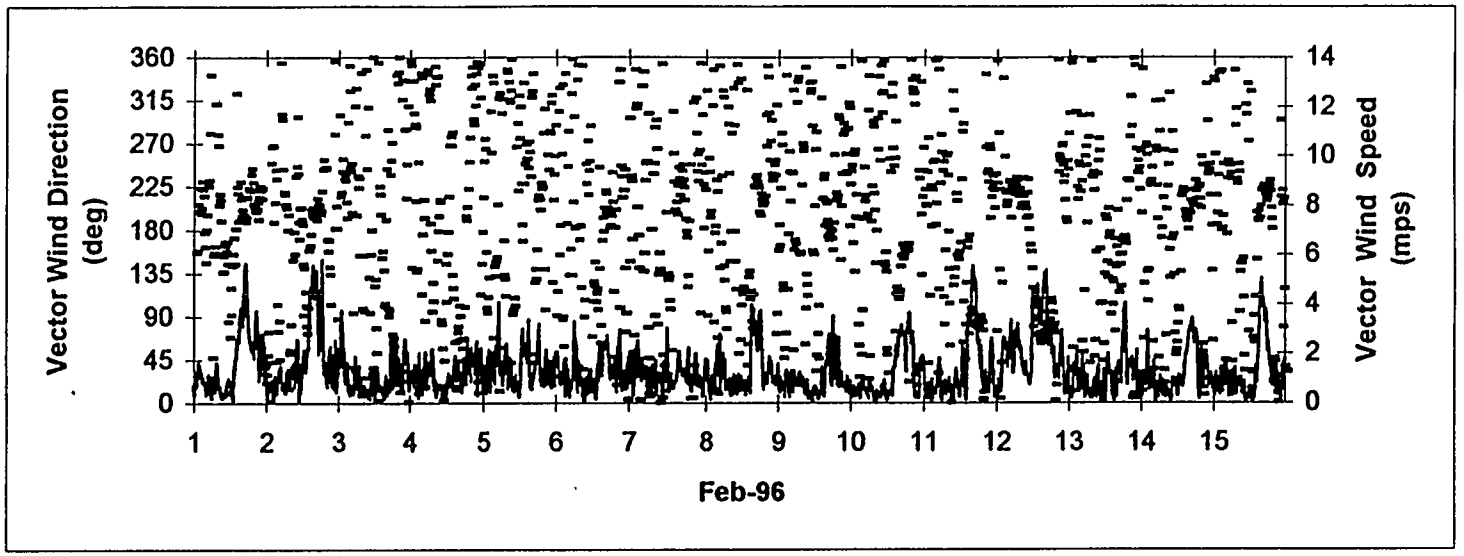
16 17 18 19 20 21 22 23 24 25 26 27 28 29
Feb-96

8 METER


Vector Wind Direction (deg)
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Vector Wind Speed (mps)
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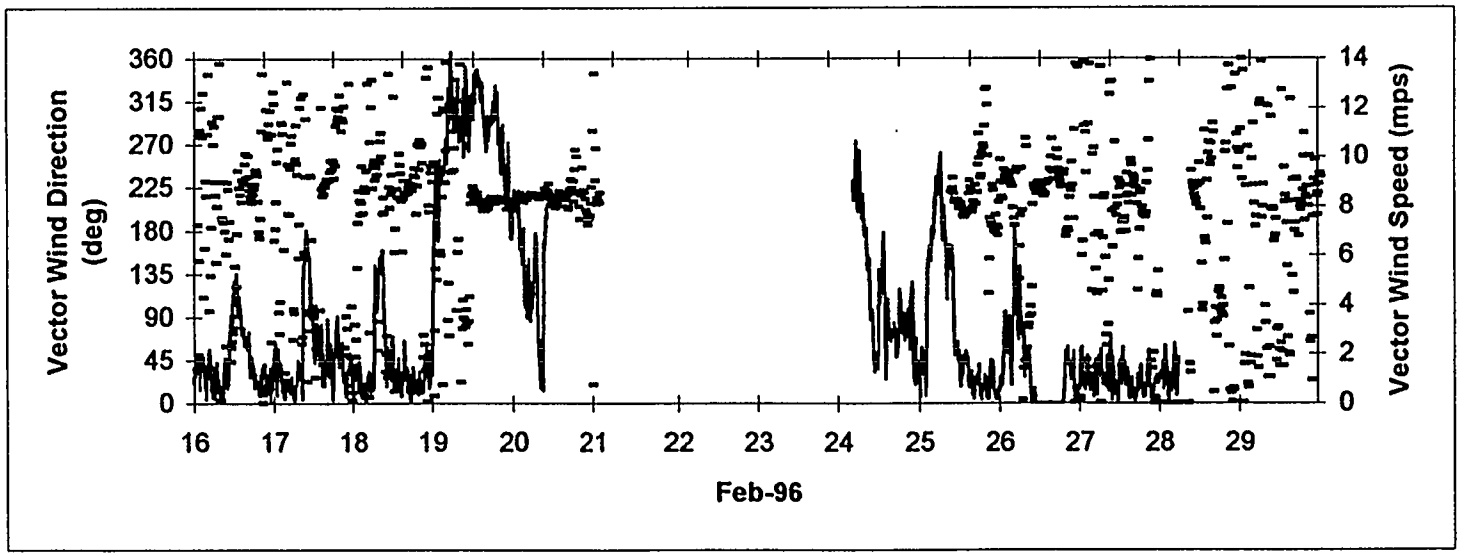
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Feb-96


Vector Wind Direction (deg)
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0
Vector Wind Speed (mps)
14
12
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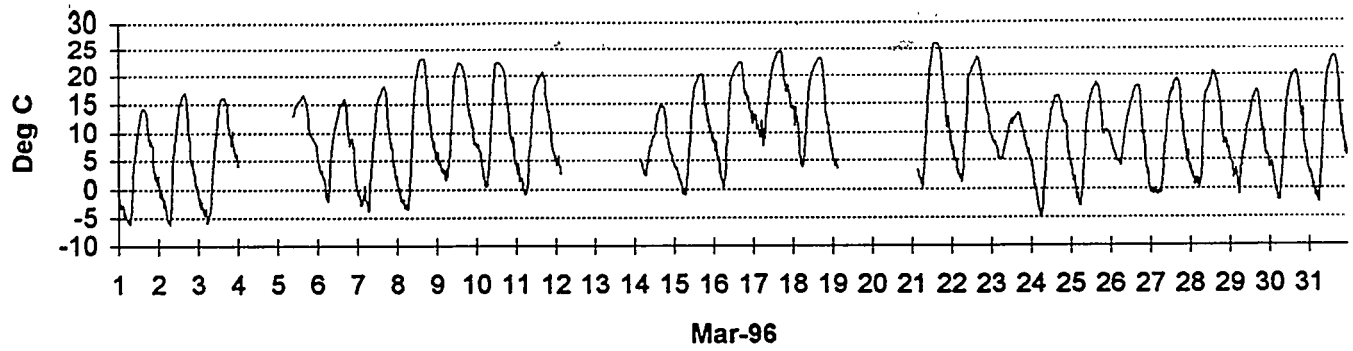
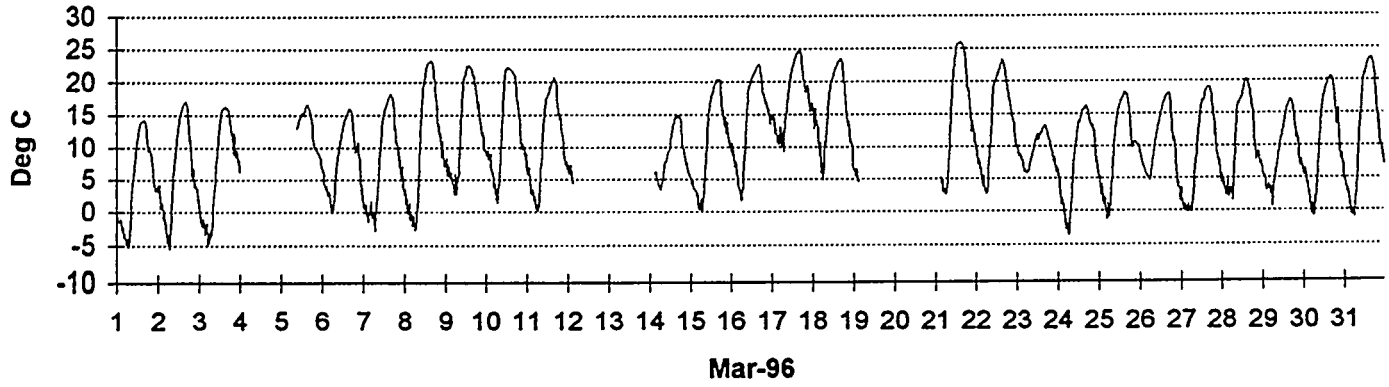
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29
Feb-96

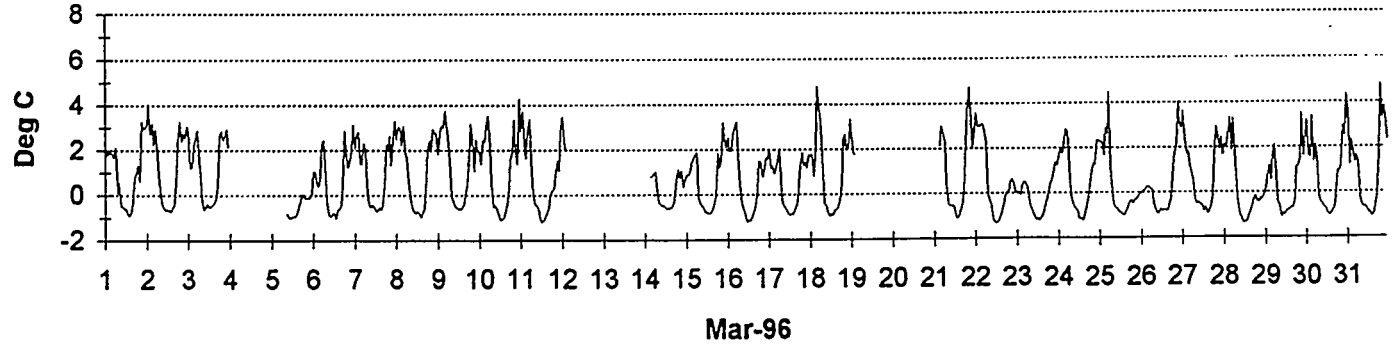
2 METER TEMPERATURE

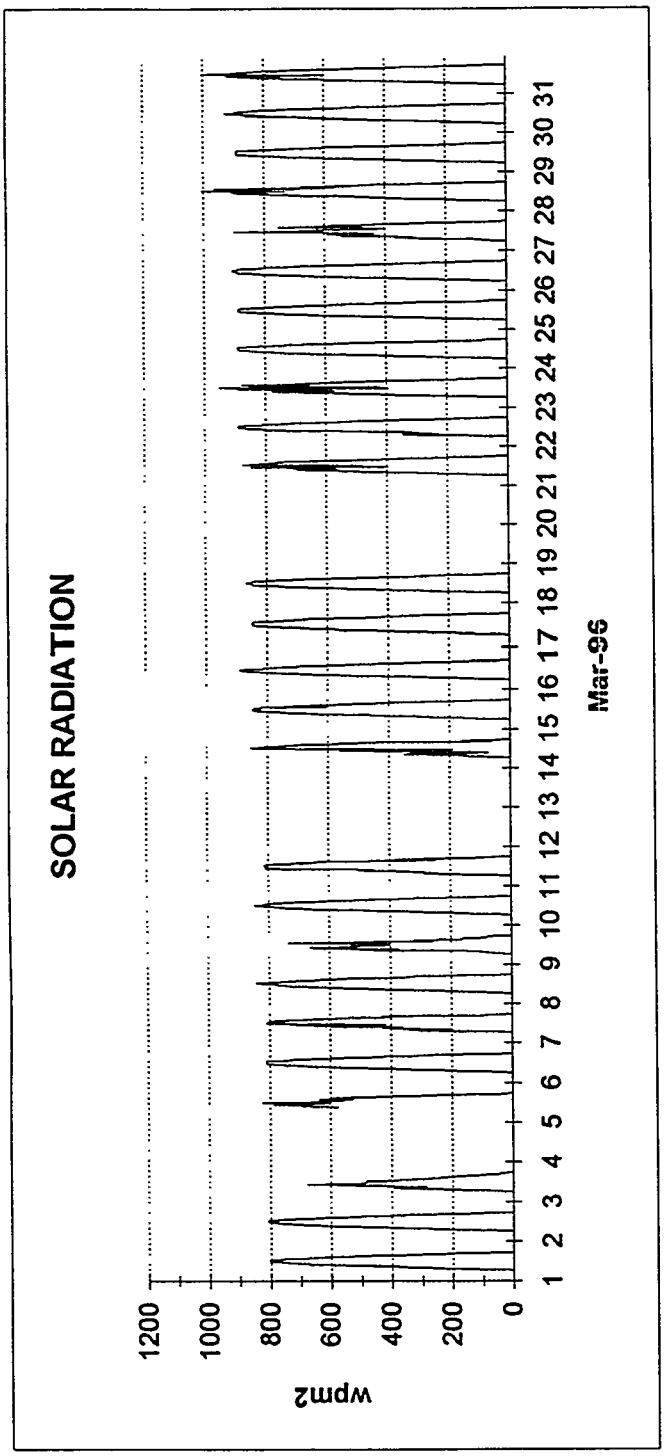


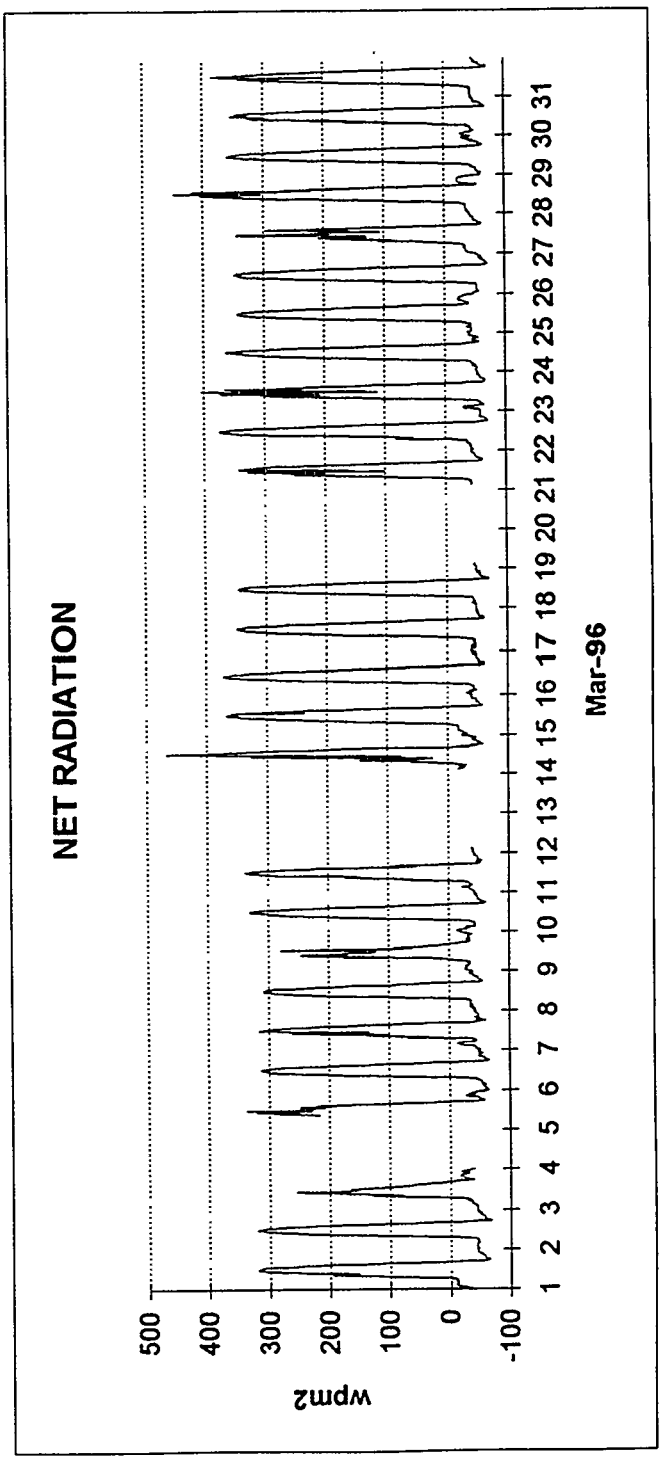
8 METER TEMPERATURE



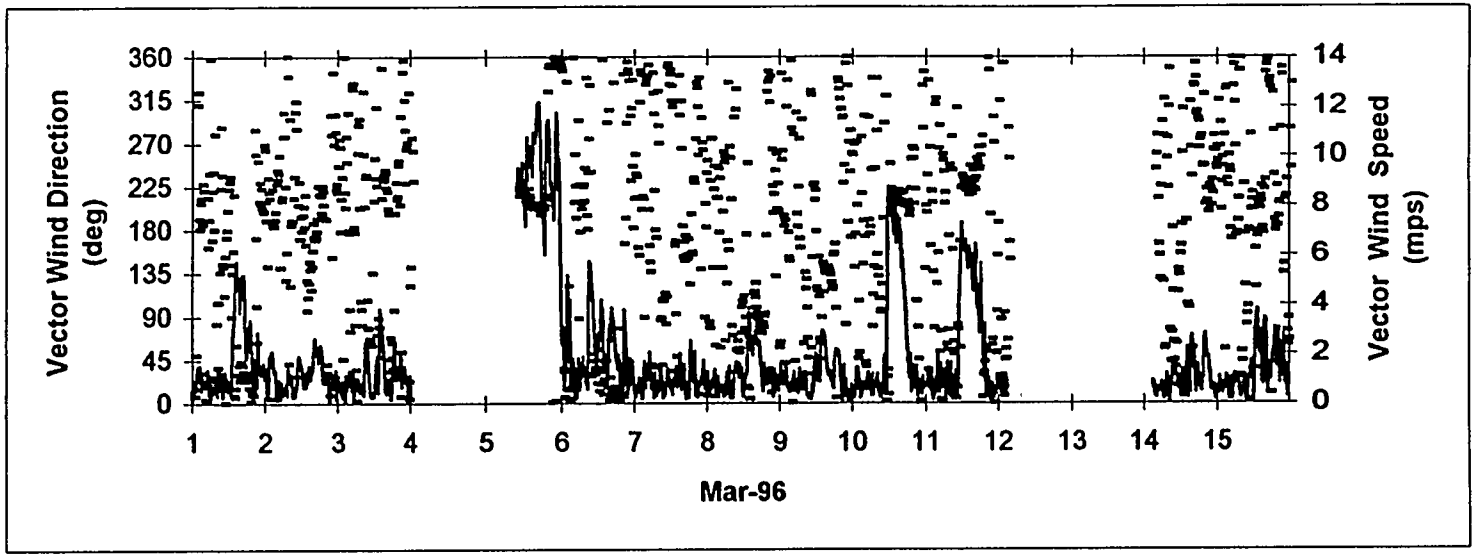
TEMPERATURE DIFFERENCE, 2 TO 16 METER




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-96


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-96

2 METER


Vector Wind Direction (deg)
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Vector Wind Speed (mps)
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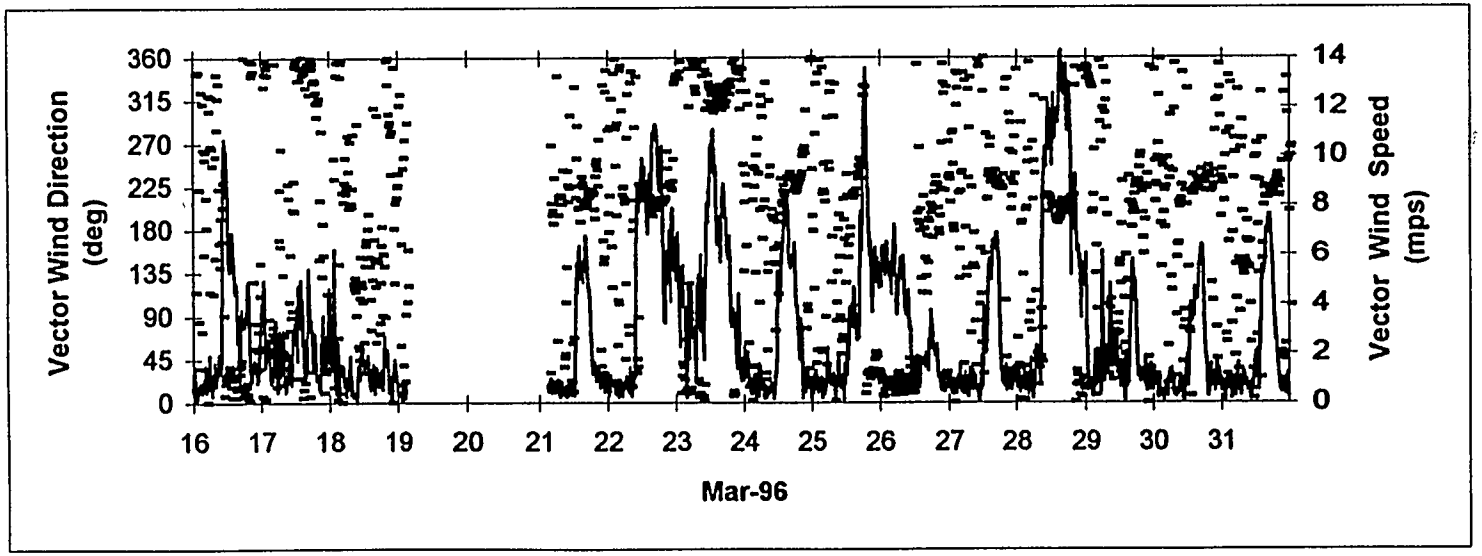
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Mar-96


Vector Wind Direction (deg)
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Vector Wind Speed (mps)
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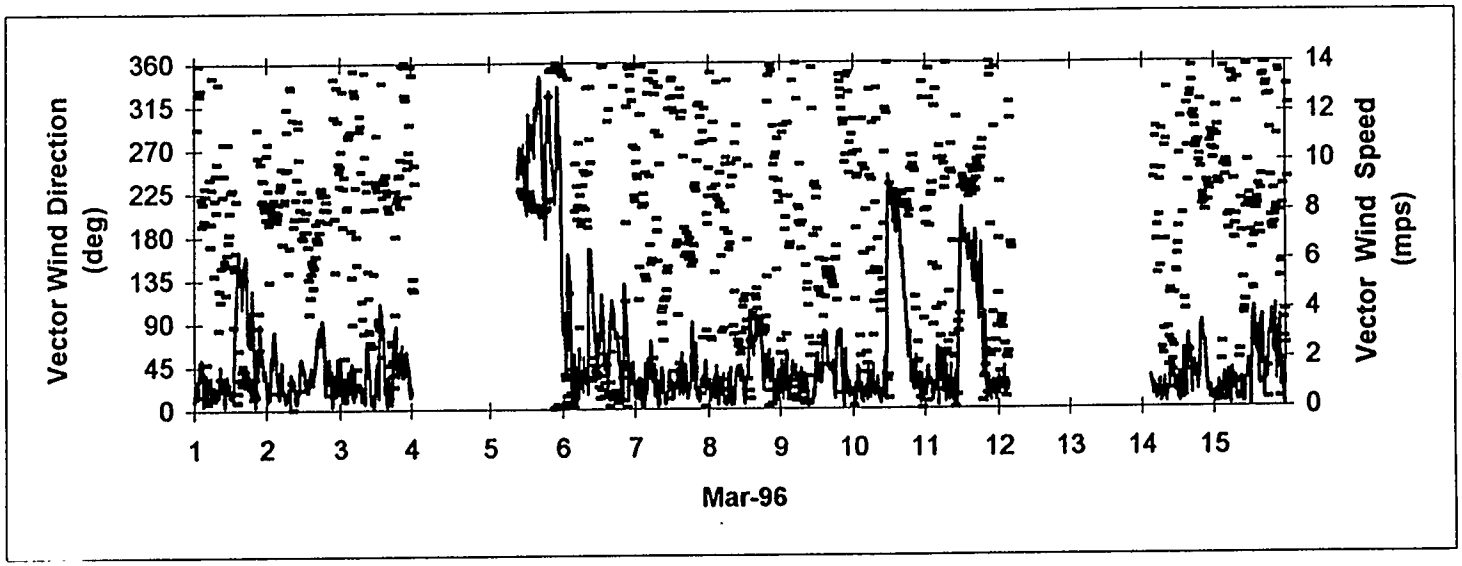
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Mar-96

8 METER


Vector Wind Direction (deg)
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Vector Wind Speed (mps)
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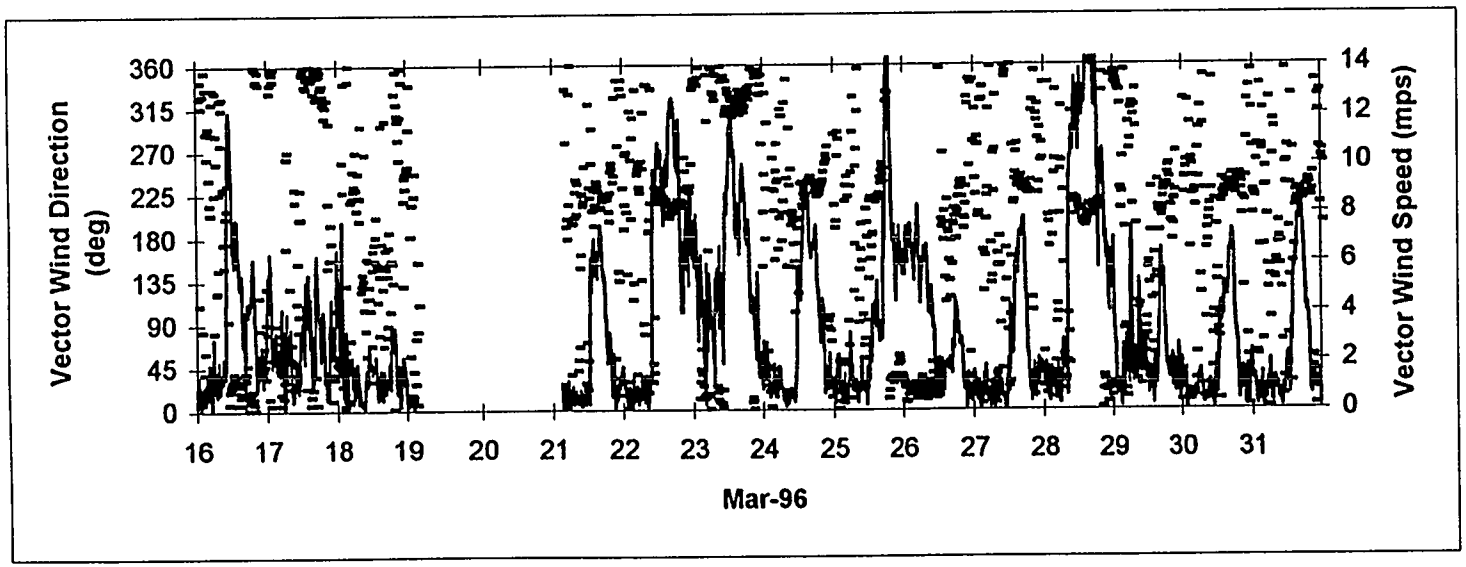
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Mar-96


Vector Wind Direction (deg)
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0
Vector Wind Speed (mps)
14
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10
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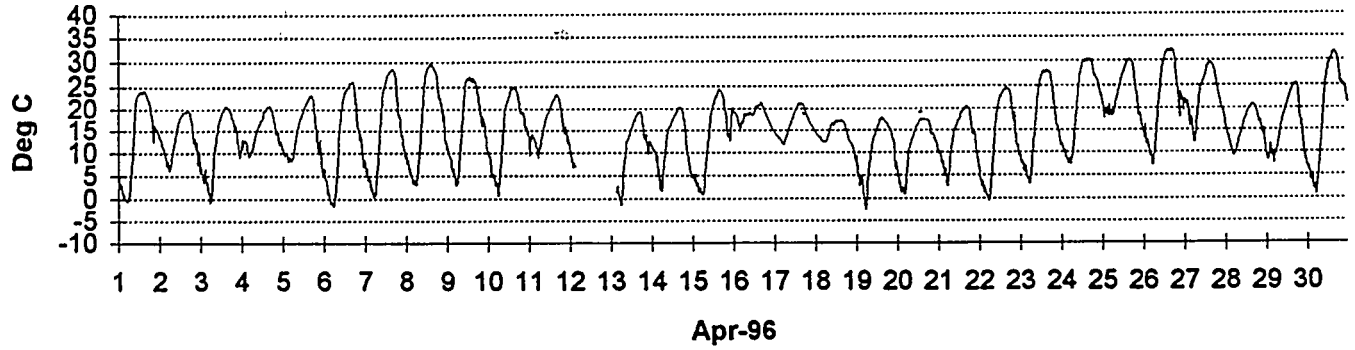
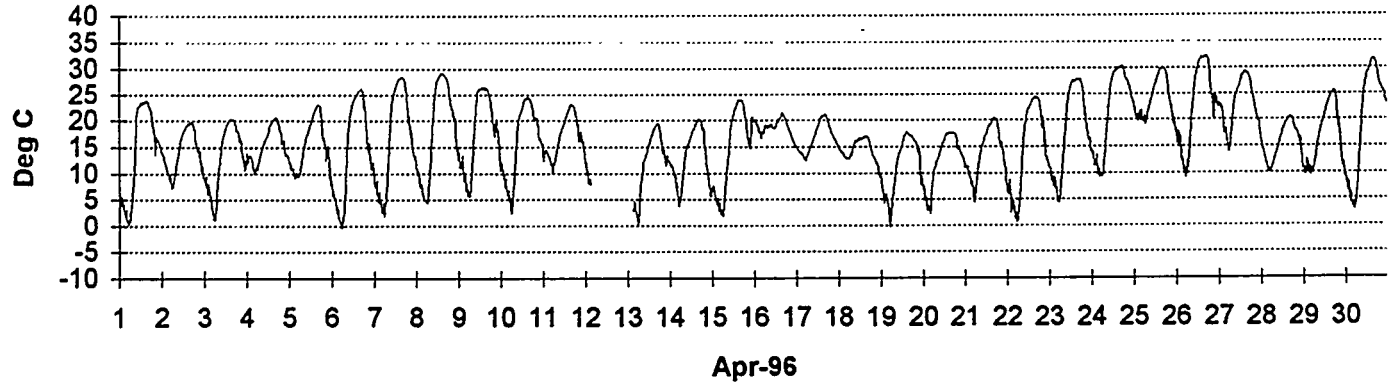
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Mar-96

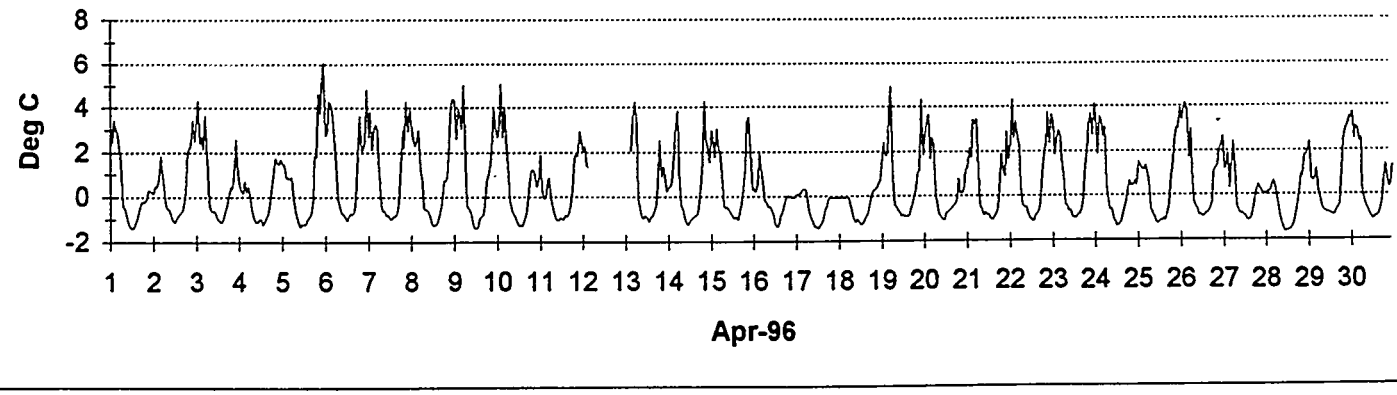
2 METER TEMPERATURE

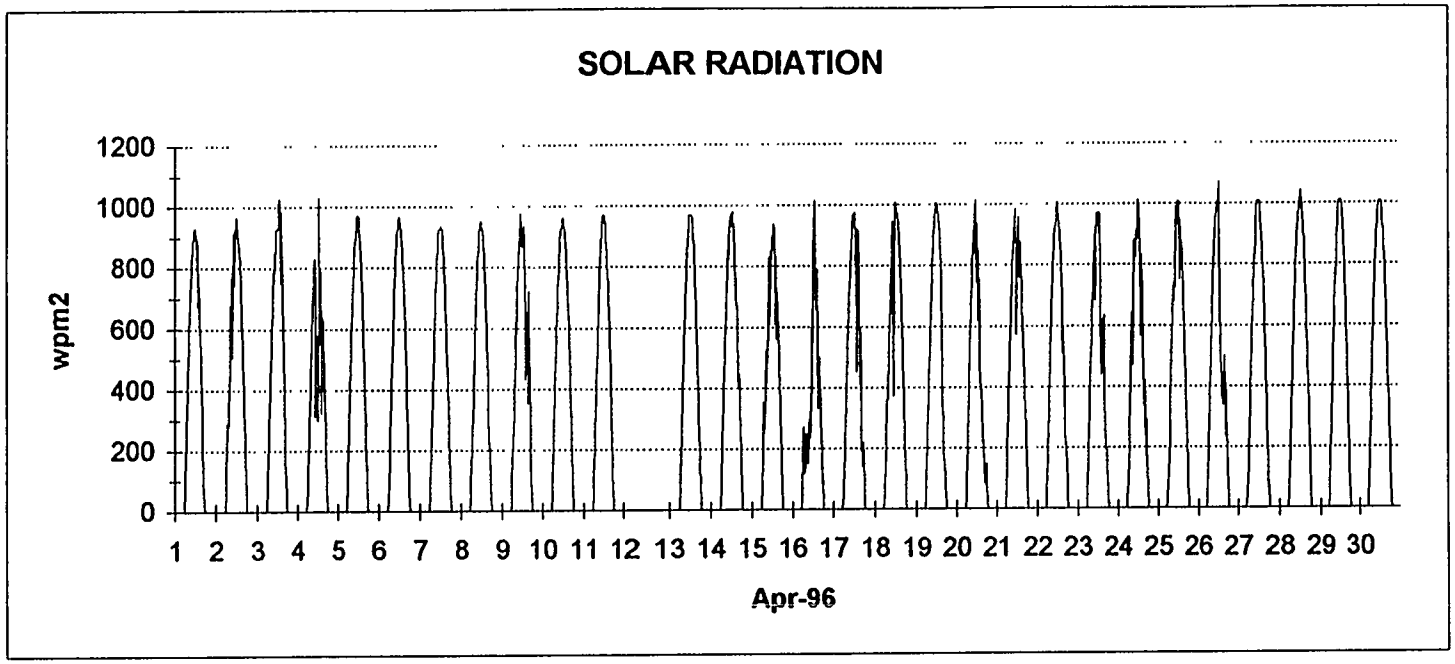


8 METER TEMPERATURE



TEMPERATURE DIFFERENCE, 2 TO 16 METER




SOLAR RADIATION
wpm2
1200
1000
800
600
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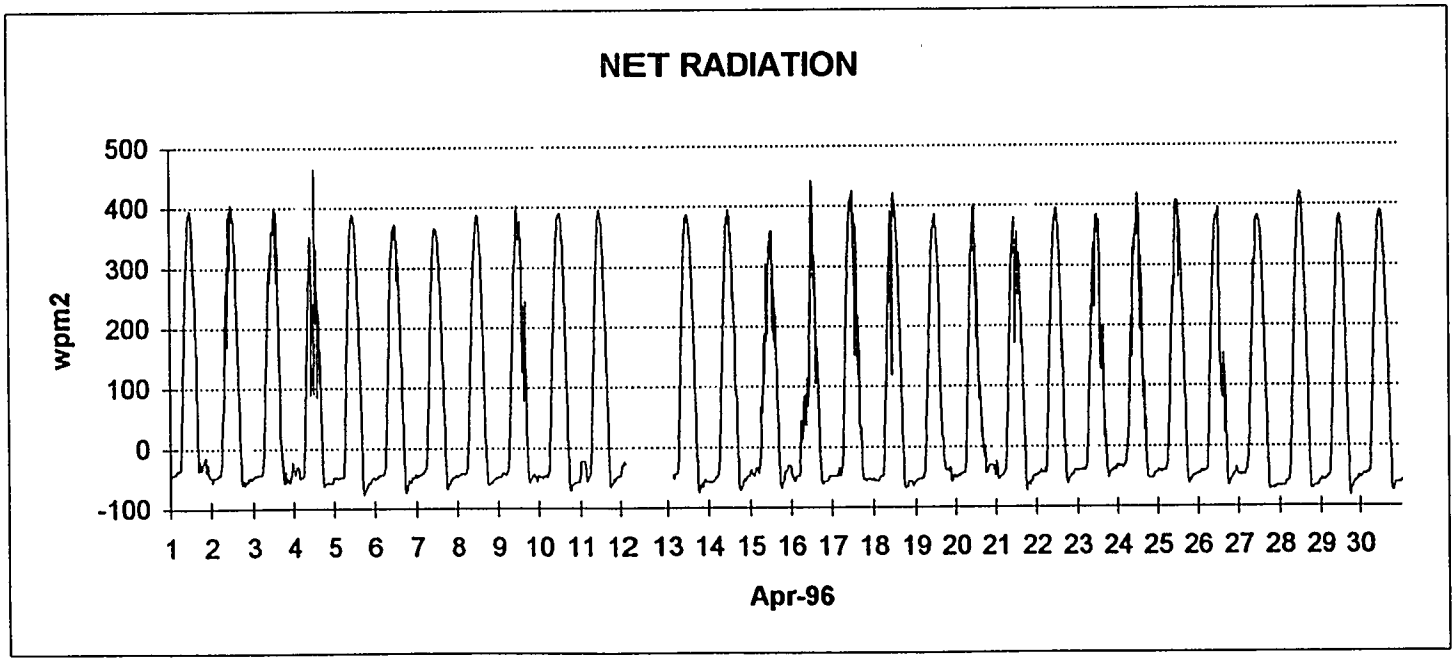
200
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Apr-96


NET RADIATION
wpm2
500
400
300
200
100
0
-100
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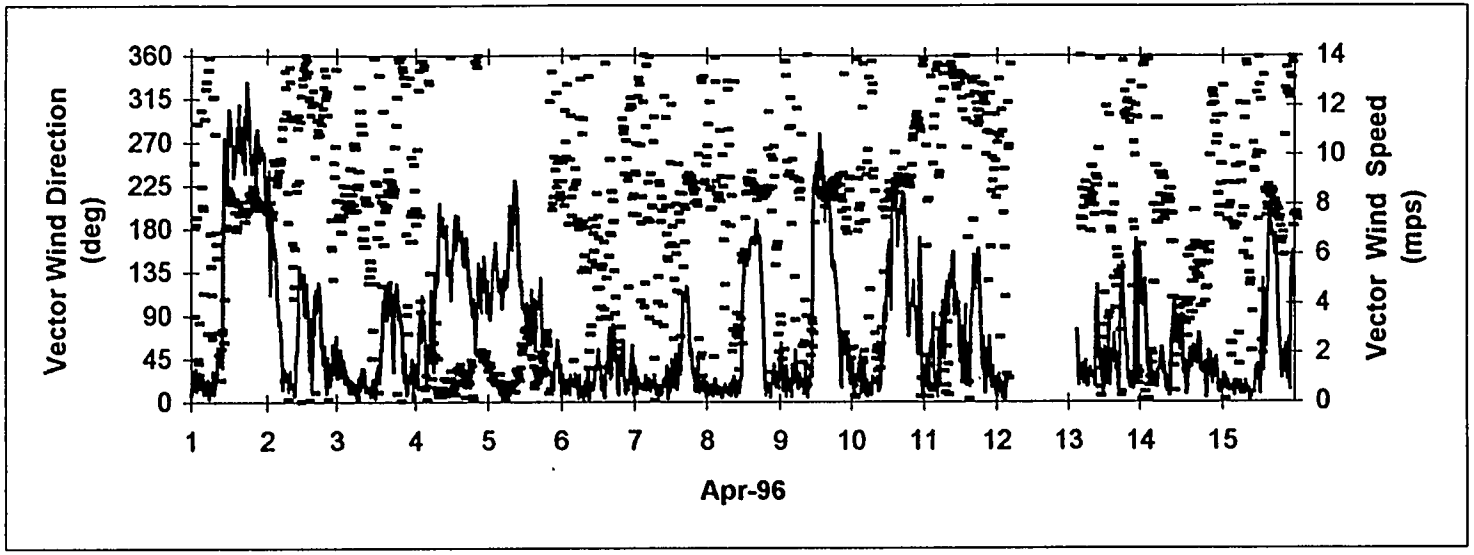
Apr-96

2 METER


Vector Wind Direction (deg)
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Vector Wind Speed (mps)
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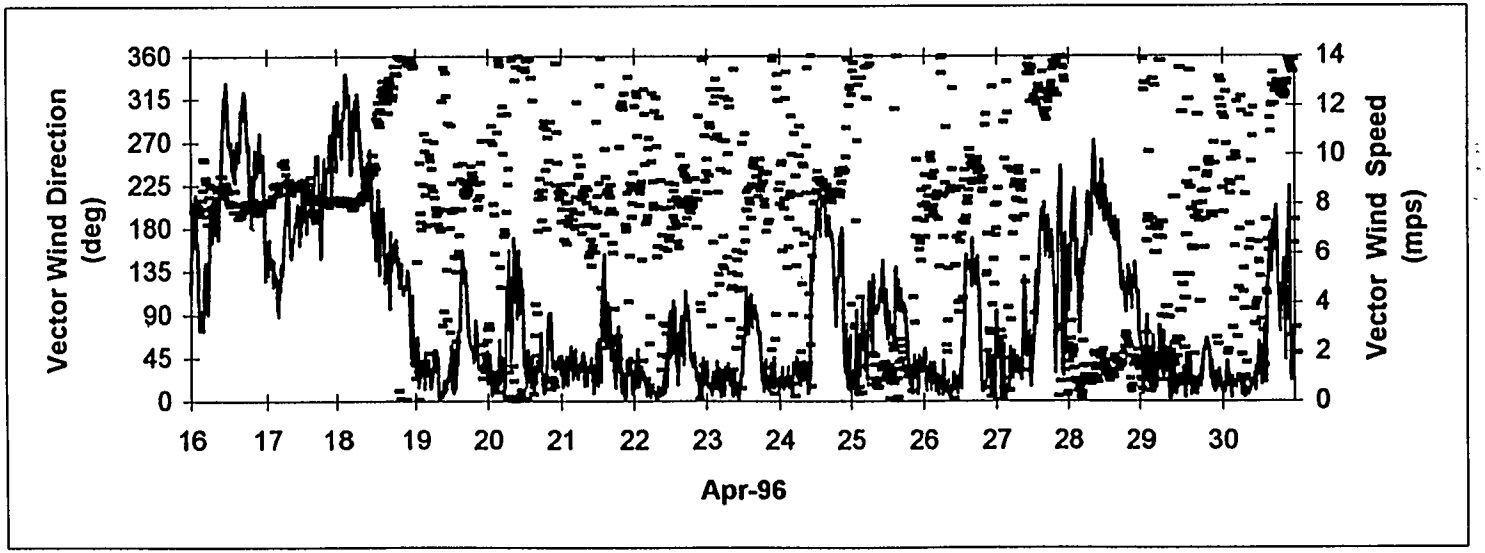
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Apr-96


Vector Wind Direction (deg)
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Vector Wind Speed (mps)
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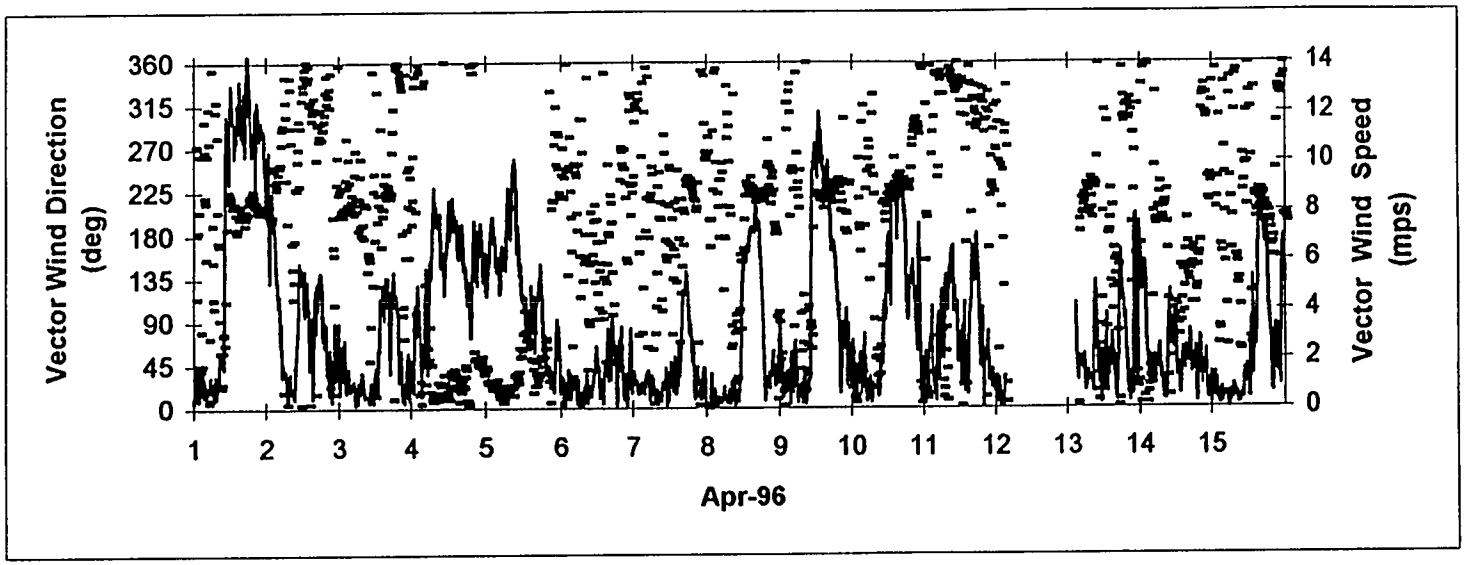
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Apr-96

8 METER


Vector Wind Direction (deg)
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225
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Vector Wind Speed (mps)
14
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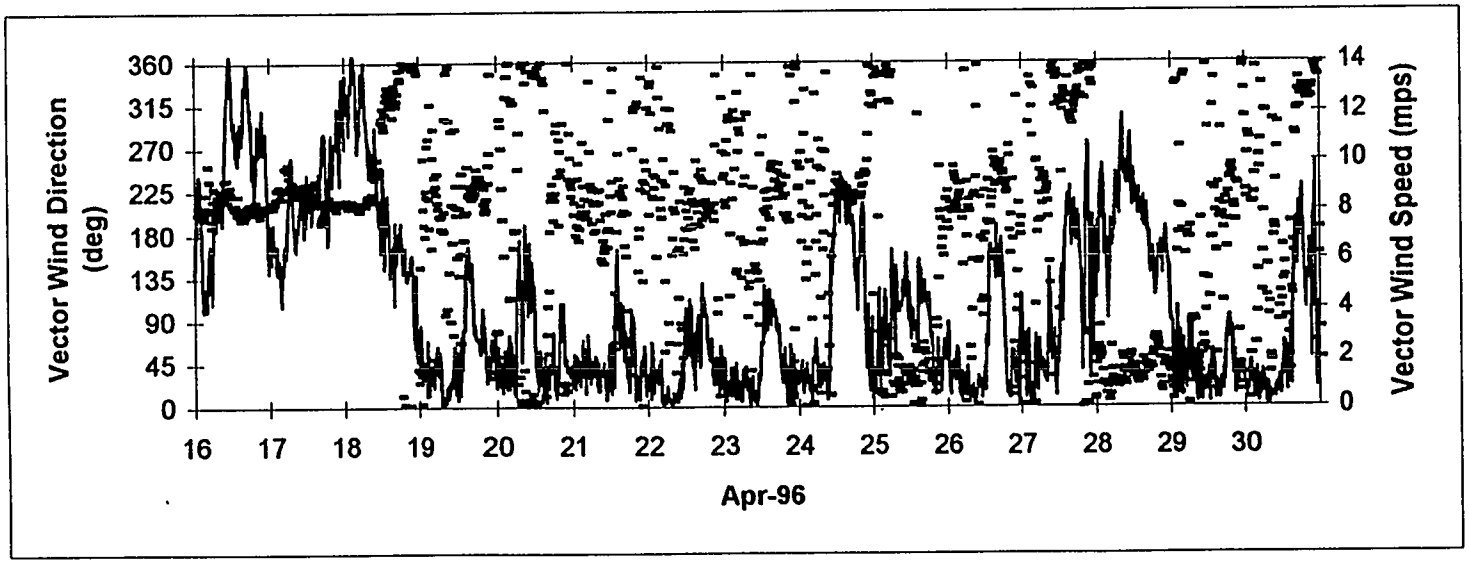
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Apr-96


Vector Wind Direction (deg)
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315
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225
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135
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45
0
Vector Wind Speed (mps)
14
12
10
8
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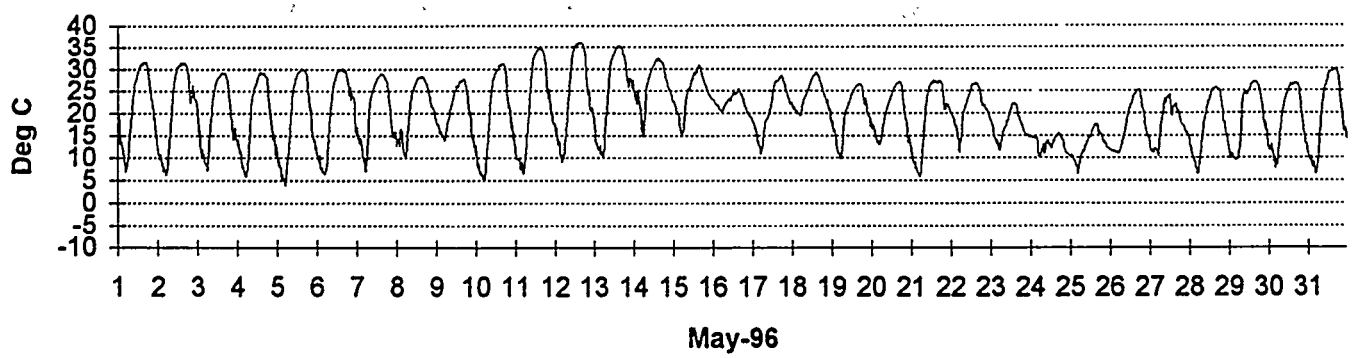
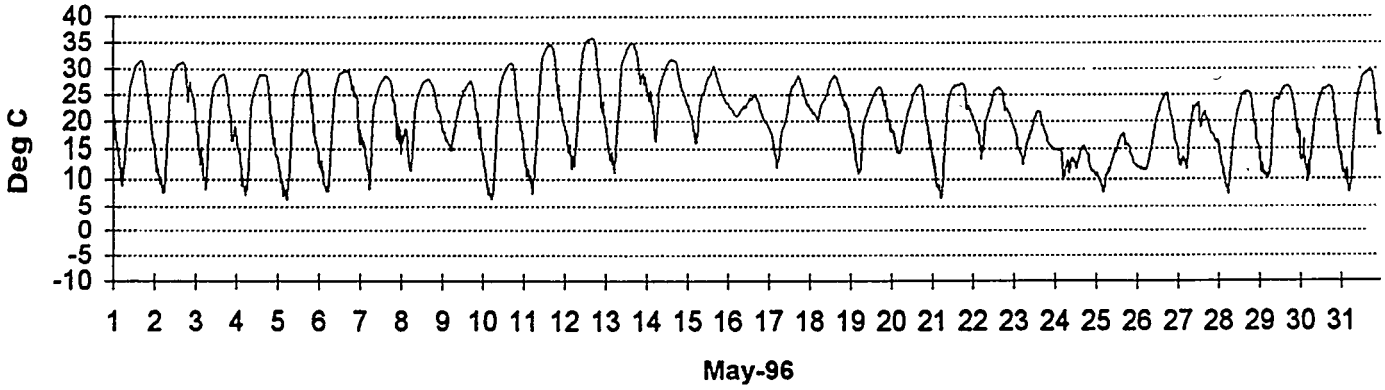
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Apr-96

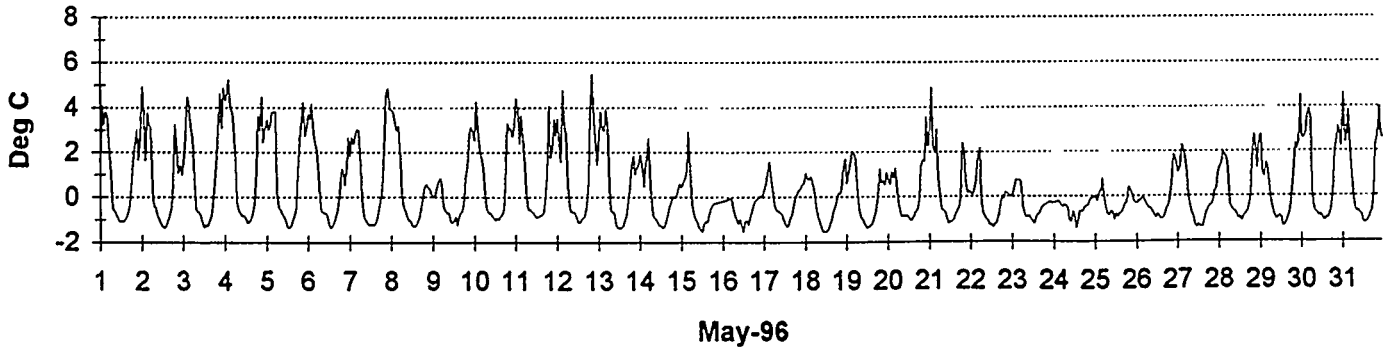
2 METER TEMPERATURE

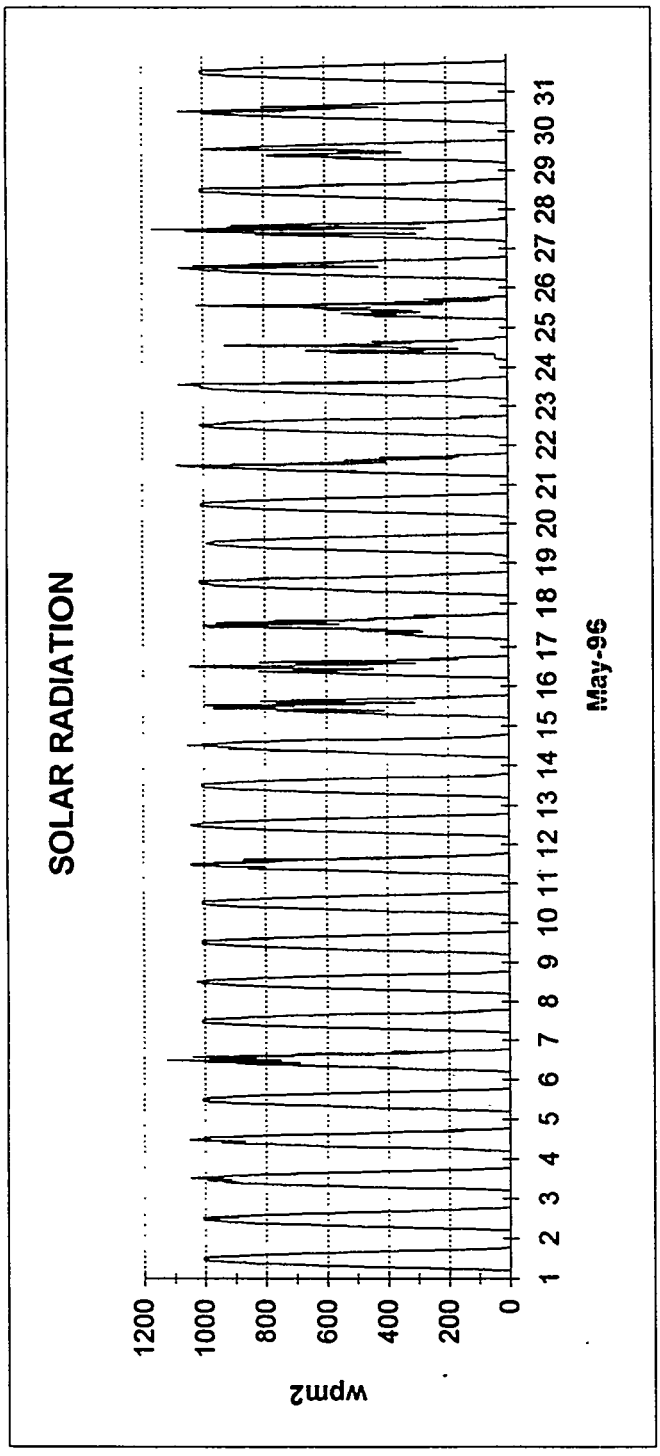


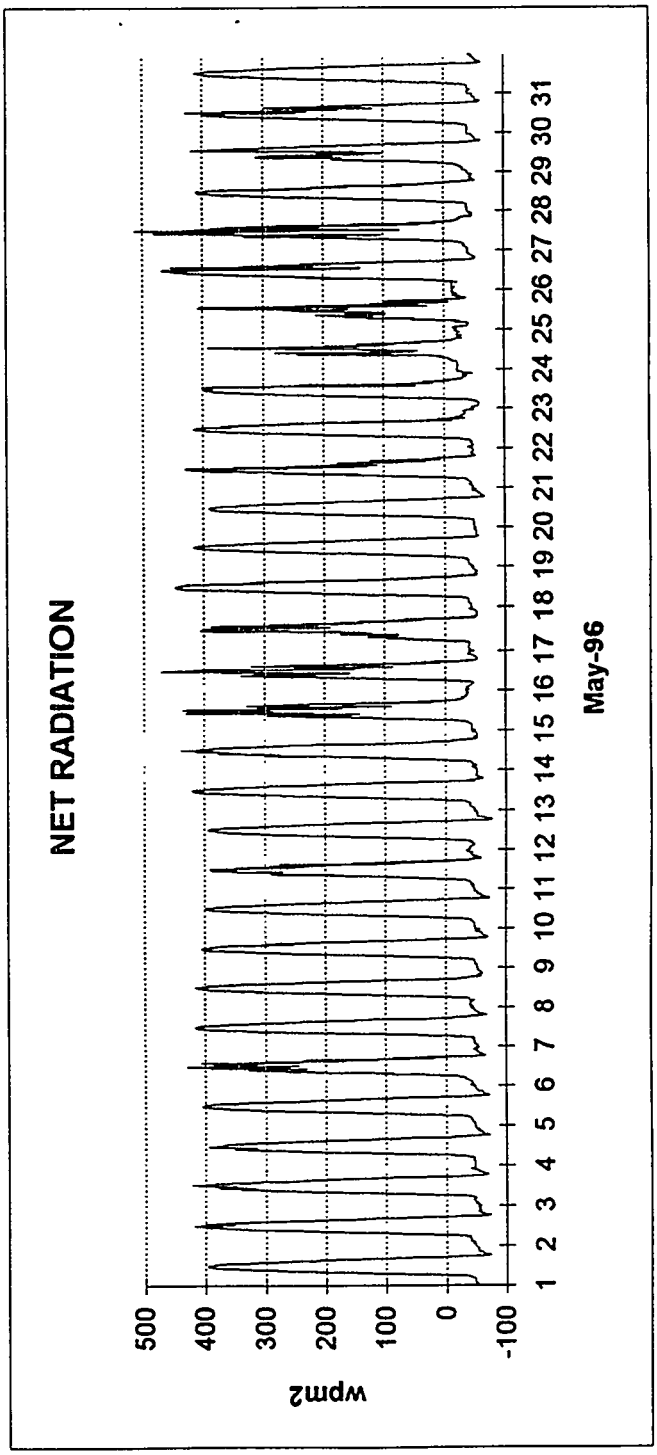
8 METER TEMPERATURE



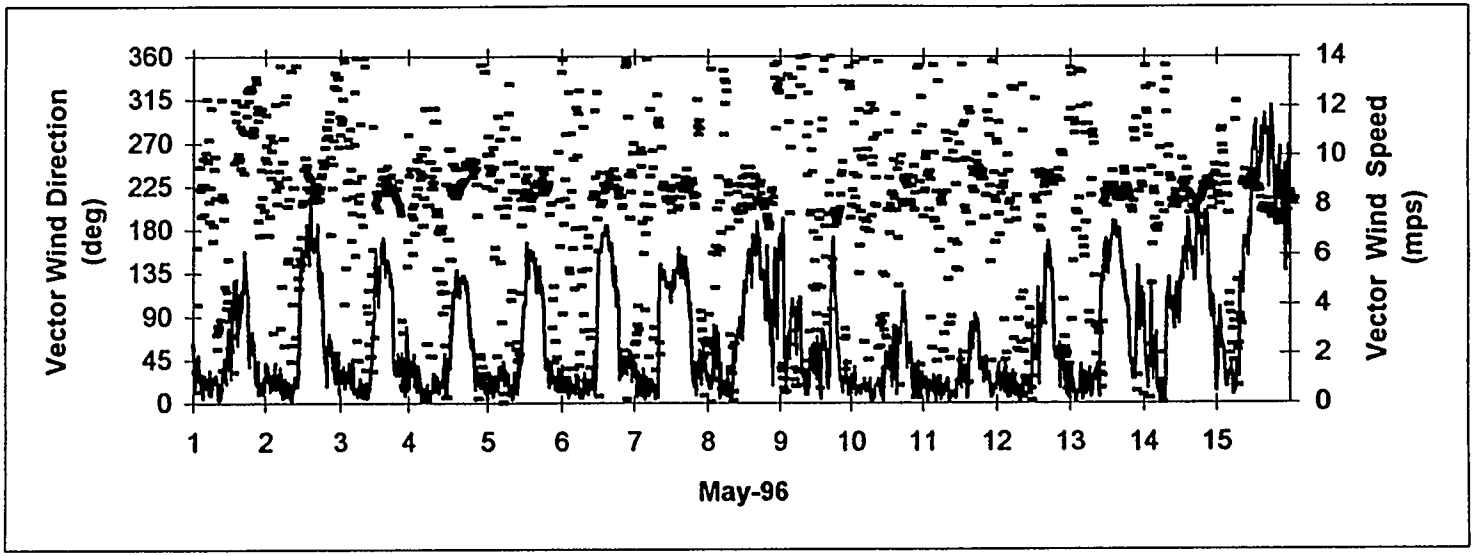
TEMPERATURE DIFFERENCE, 2 TO 16 METER




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
May-96


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
May-96

2 METER


Vector Wind Direction (deg)
360
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90
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
May-96
Vector Wind Speed (mps)
14
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10
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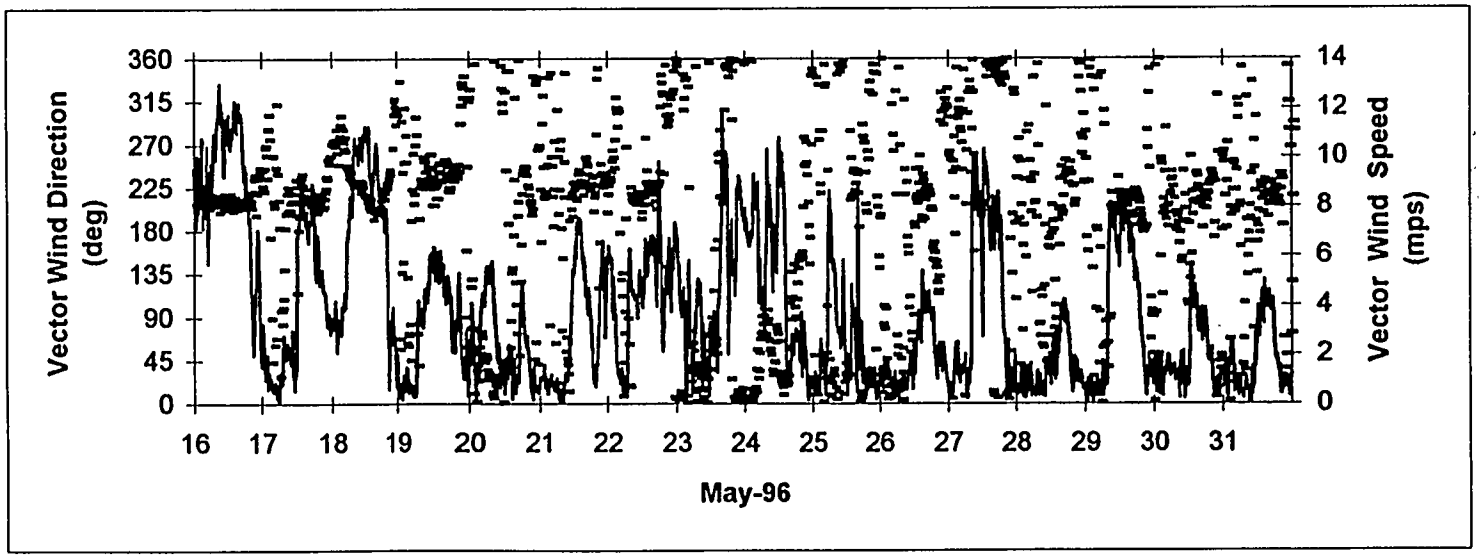
6
4
2
0


Vector Wind Direction (deg)
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315
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225
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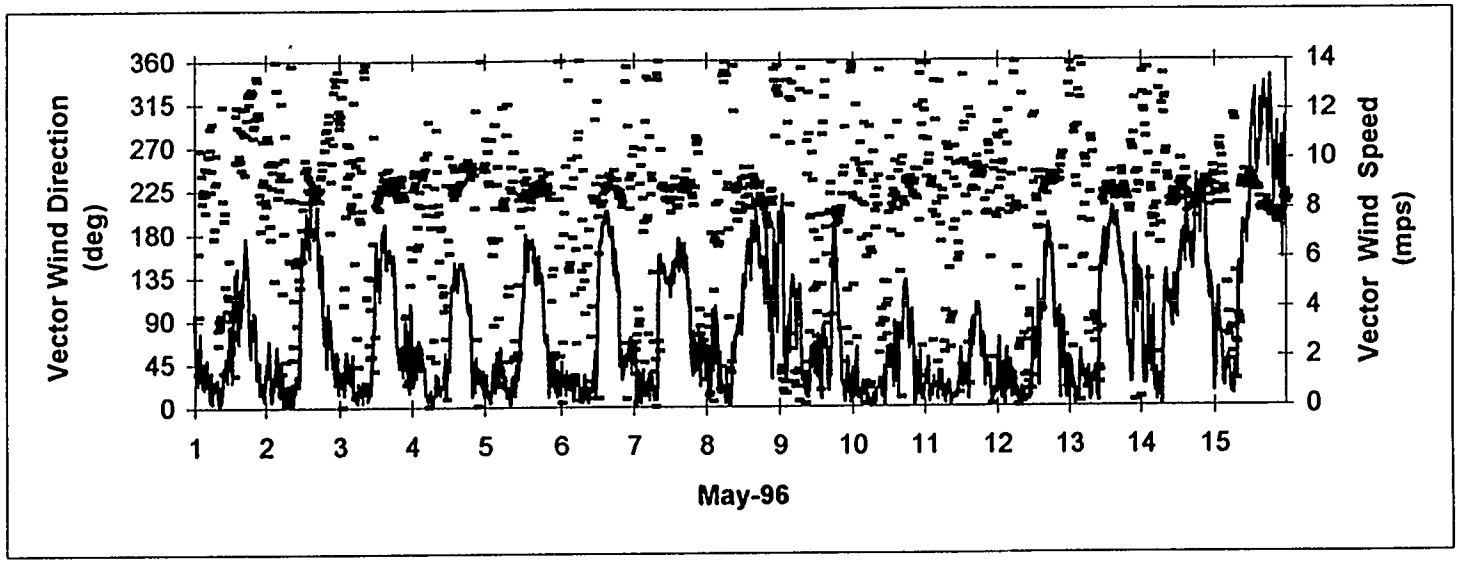
135
90
45
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
May-96
Vector Wind Speed (mps)
14
12
10
8
6
4
2
0

8 METER


Vector Wind Direction (deg)
360
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270
225
180
135
90
45
0
Vector Wind Speed (mps)
14
12
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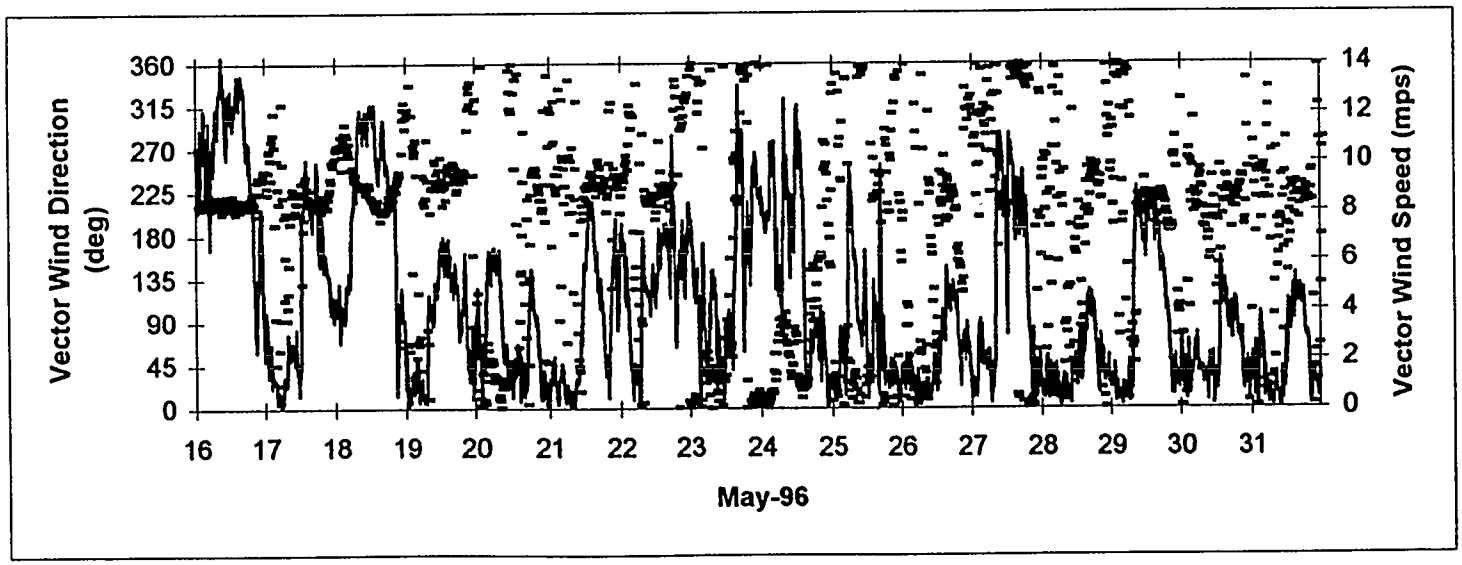
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
May-96


Vector Wind Direction (deg)
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Vector Wind Speed (mps)
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4
2
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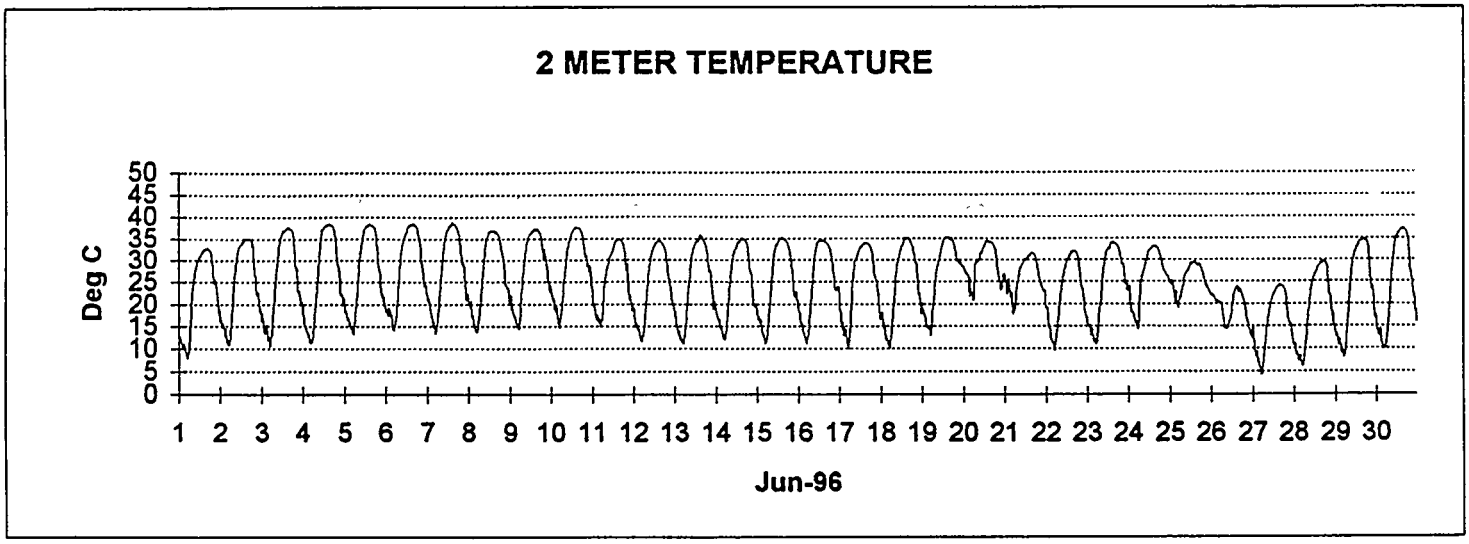
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
May-96


2 METER TEMPERATURE
Deg C
50
45
40
35
30
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15
10
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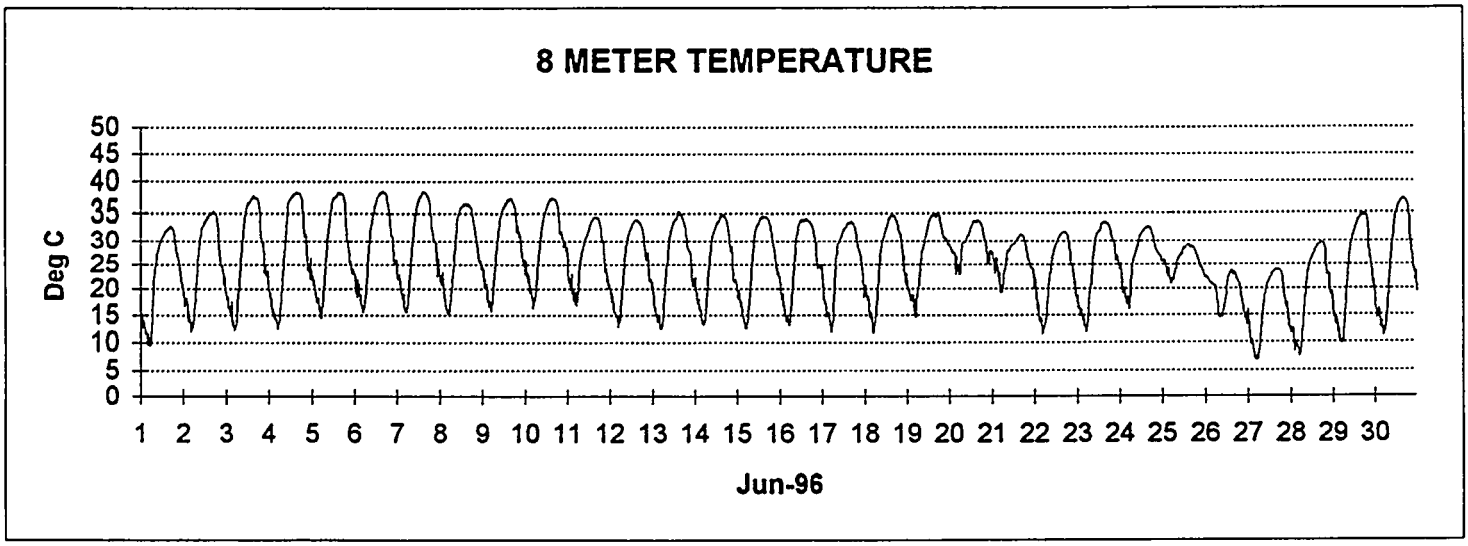
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Jun-96


8 METER TEMPERATURE
Deg C
50
45
40
35
30
25
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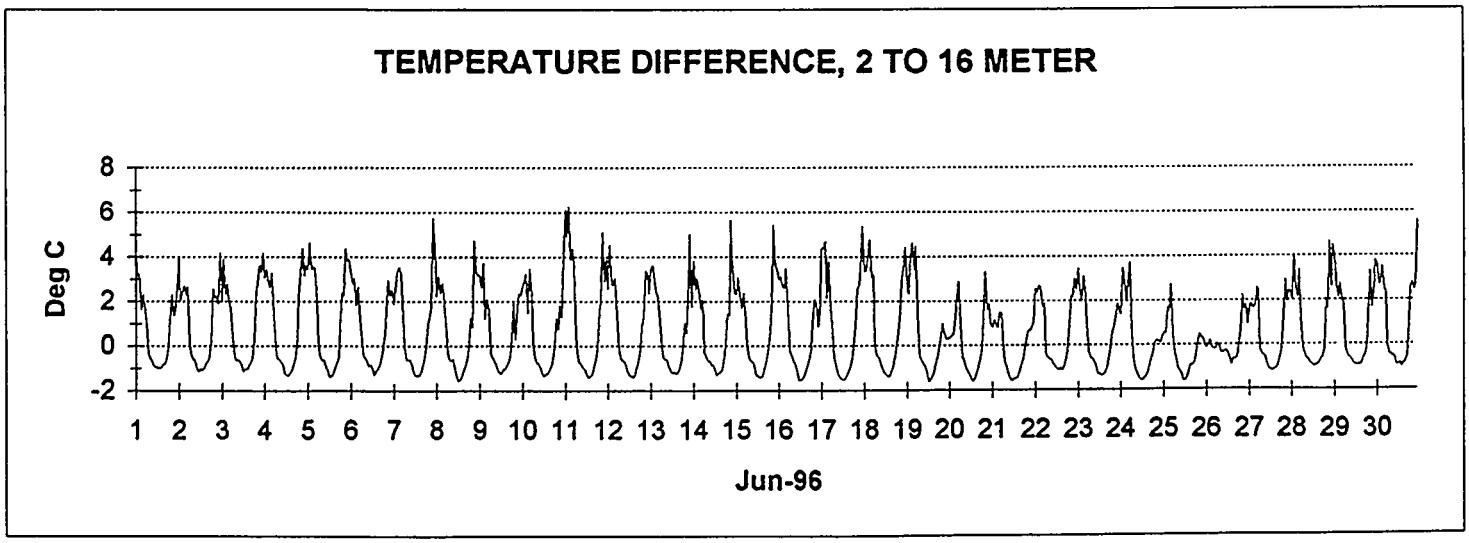
15
10
5
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Jun-96


TEMPERATURE DIFFERENCE, 2 TO 16 METER
Deg C
8
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2
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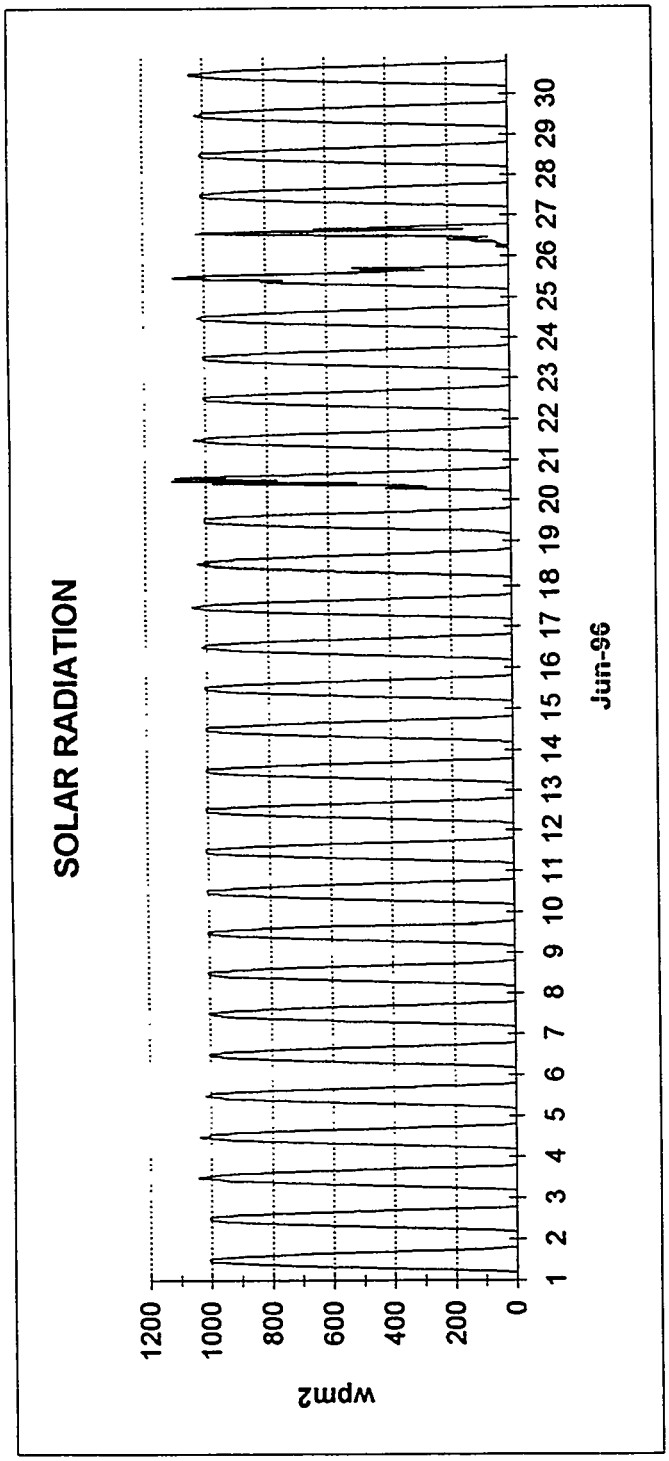
-2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Jun-96


SOLAR RADIATION
wpm2
1200
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600
400
200
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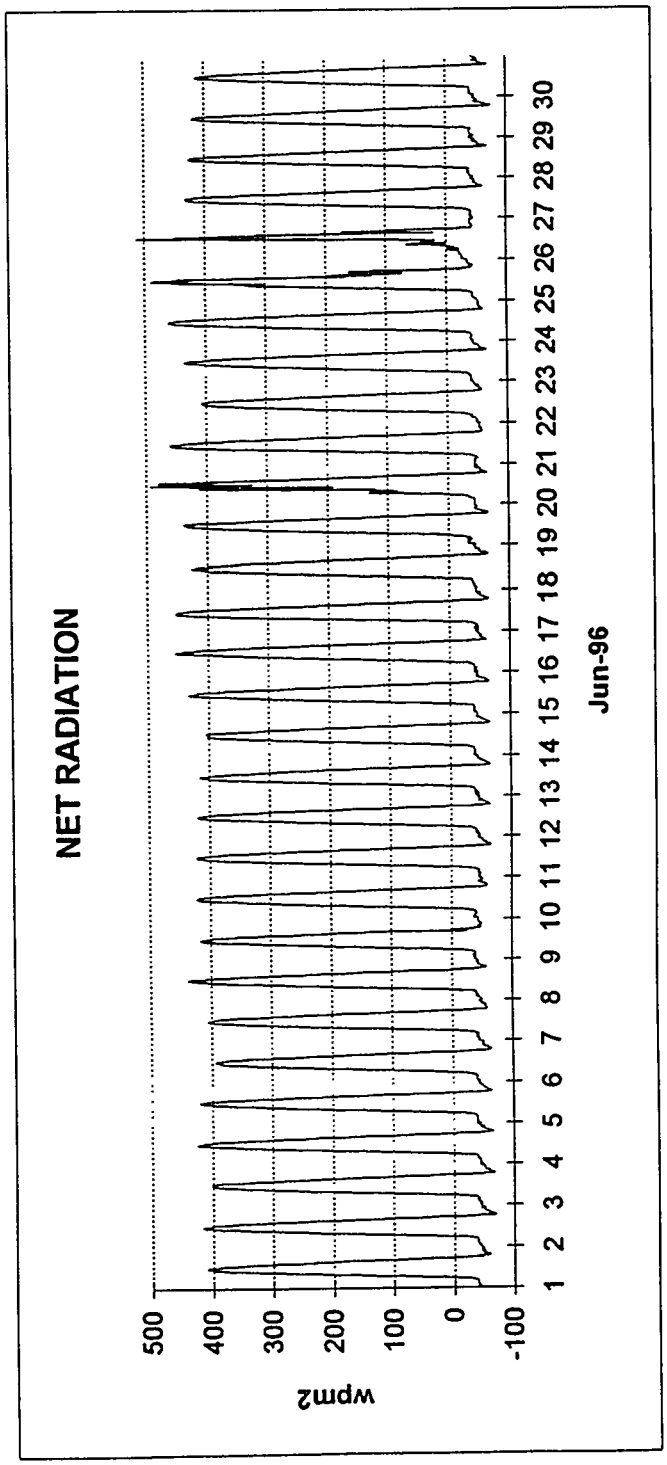
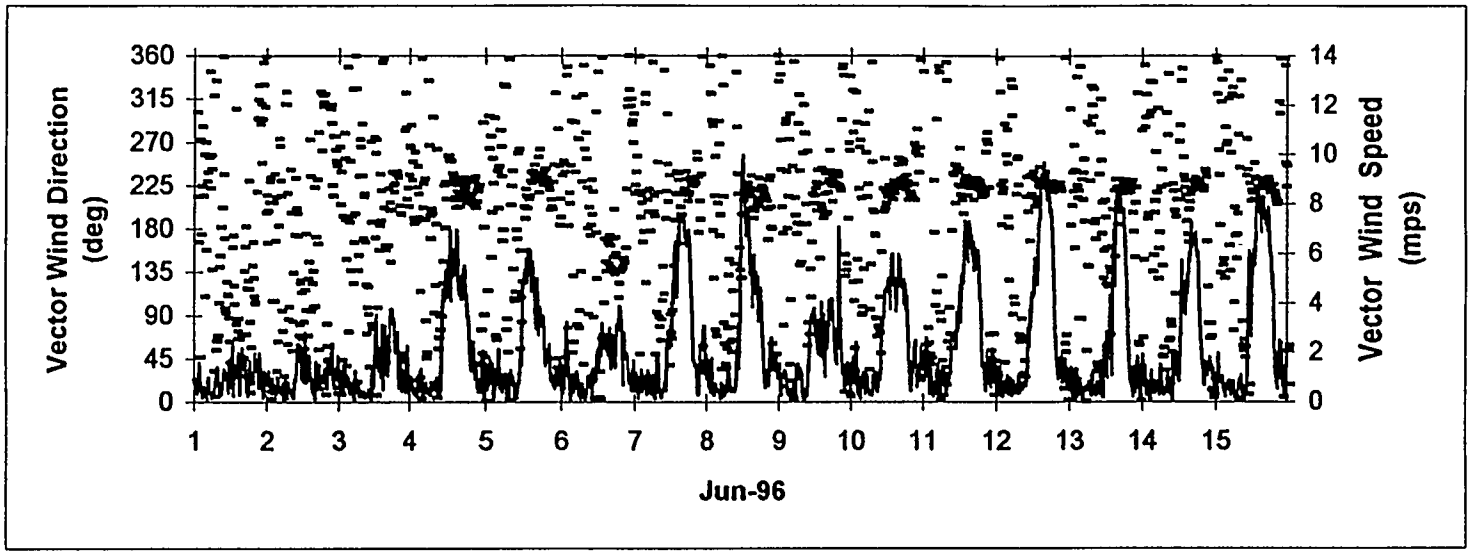
Jun-96


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-96

2 METER


Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
14
12
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8
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4
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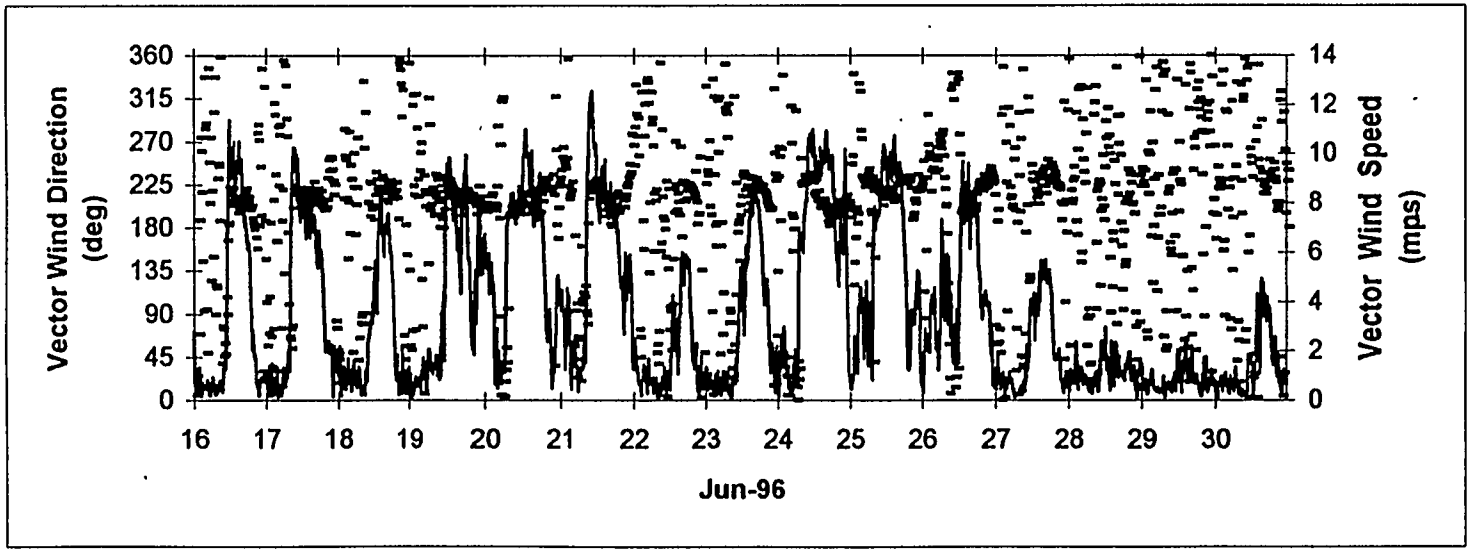
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Jun-96


Vector Wind Direction (deg)
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315
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225
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135
90
45
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Vector Wind Speed (mps)
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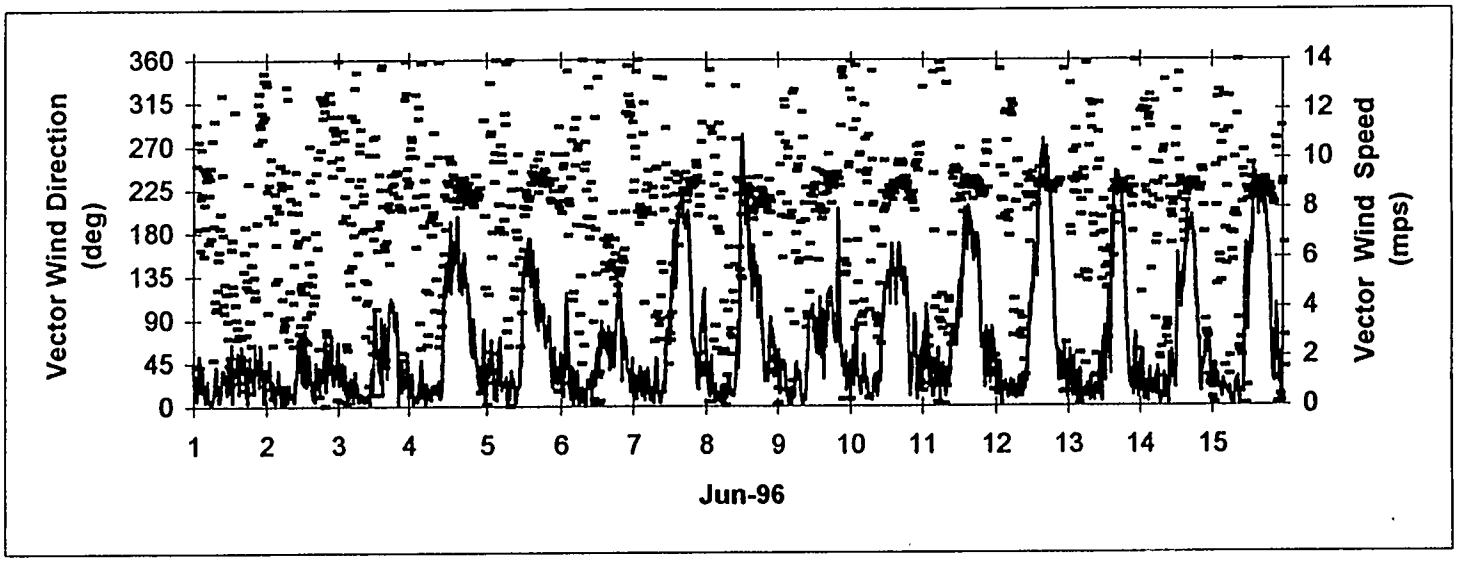
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Jun-96

8 METER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Vector Wind Speed (mps)
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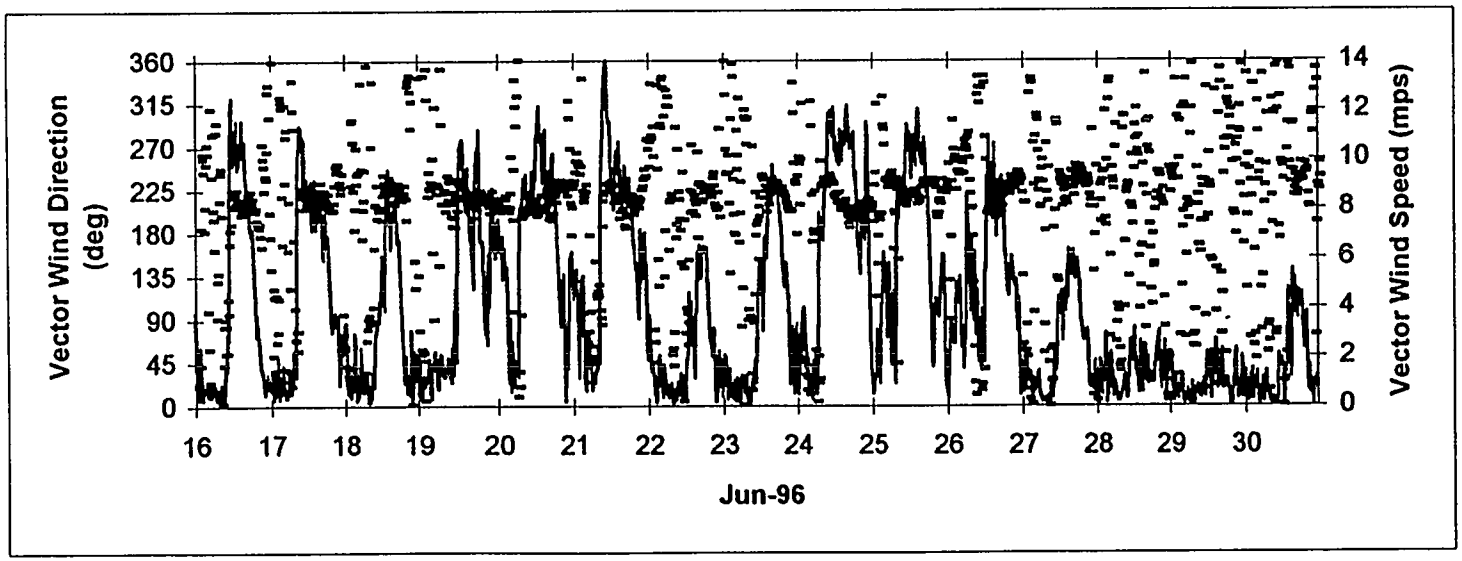
Jun-96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Vector Wind Speed (mps)
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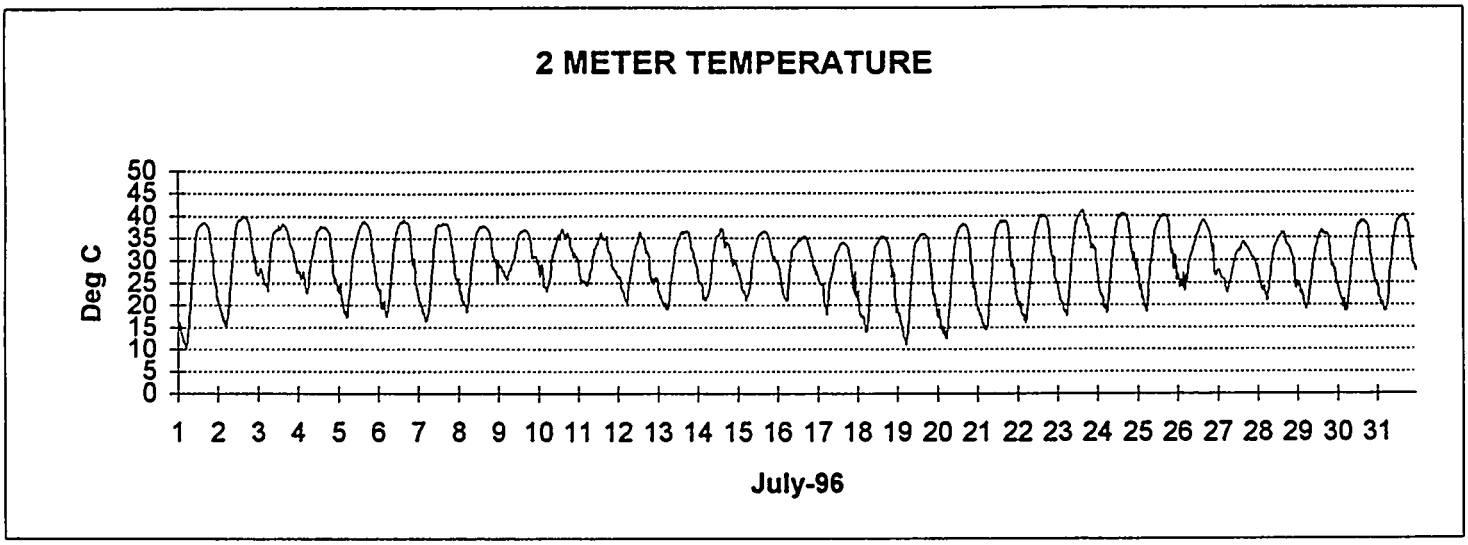
Jun-96


2 METER TEMPERATURE
Deg C
50
45
40
35
30
25
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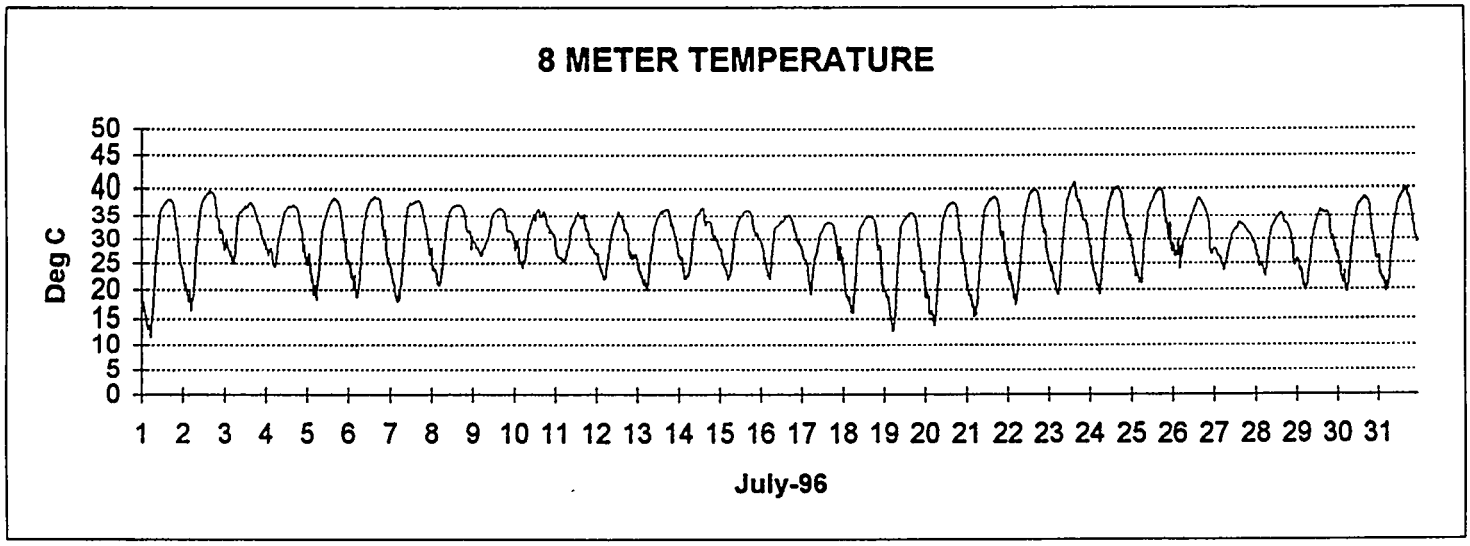
15
10
5
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
July-96


8 METER TEMPERATURE
Deg C
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45
40
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25
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15
10
5
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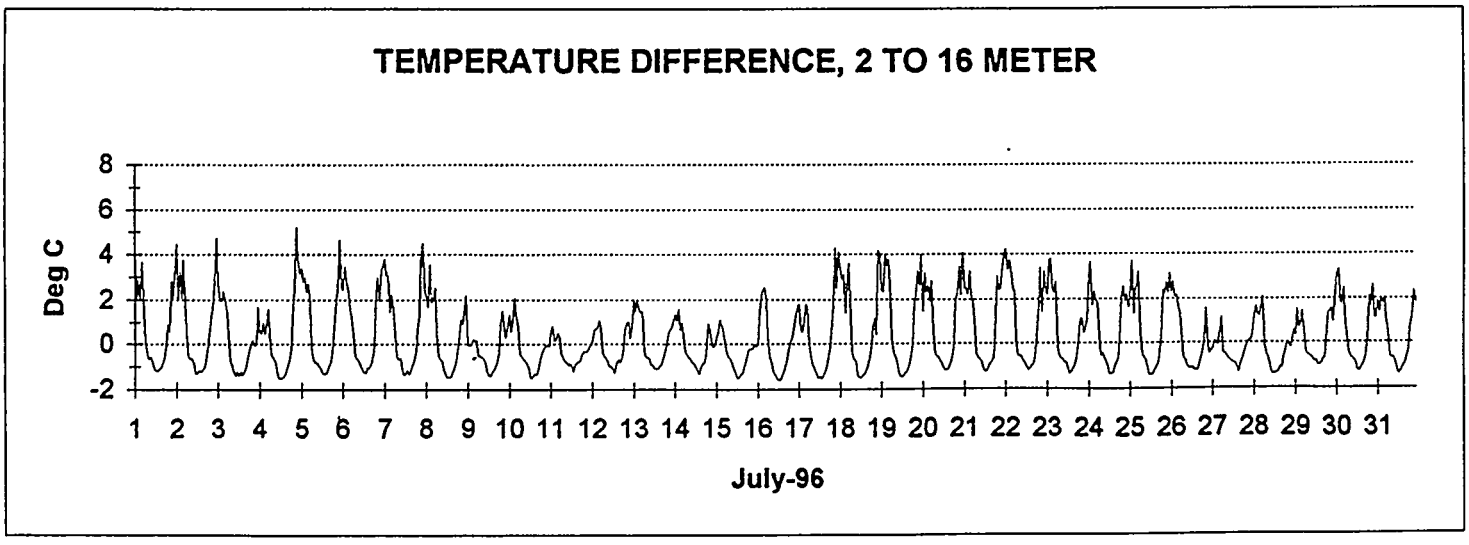
July-96


TEMPERATURE DIFFERENCE, 2 TO 16 METER
Deg C
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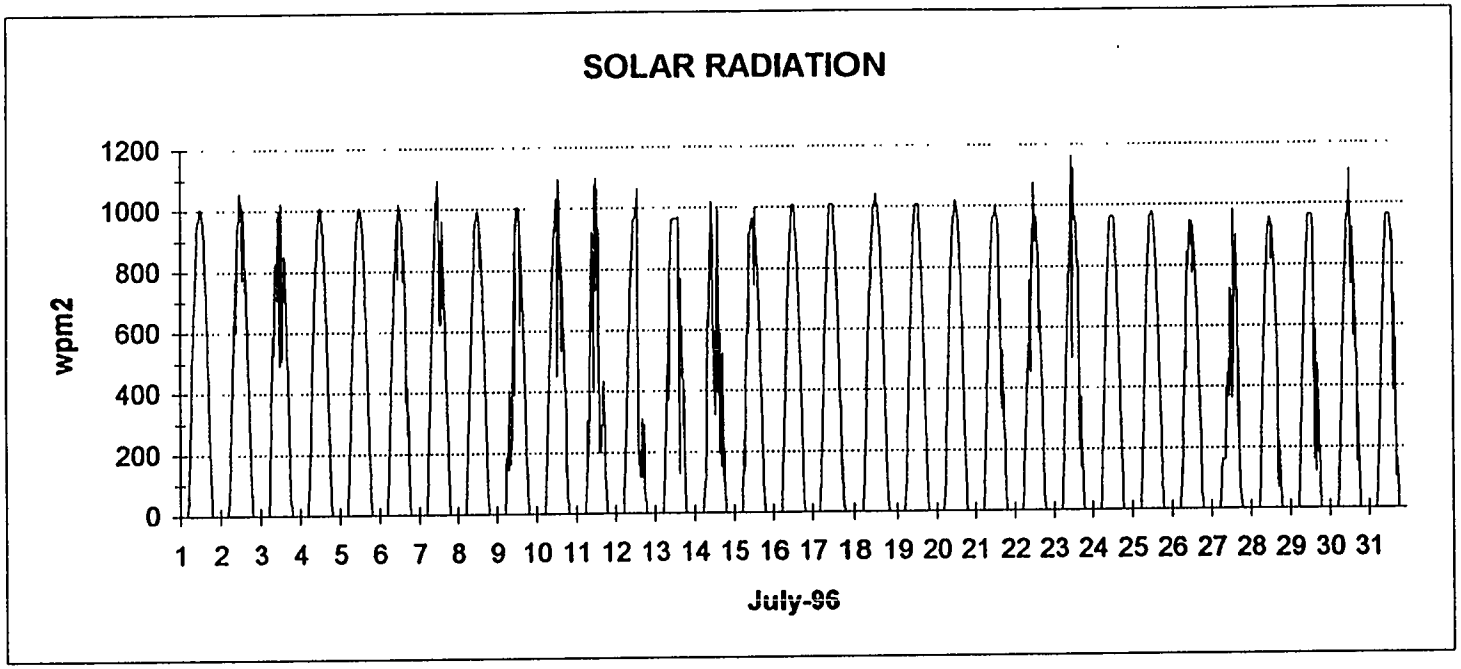
6
4
2
0
-2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
July-96


SOLAR RADIATION
wpm2
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1000
800
600
400
200
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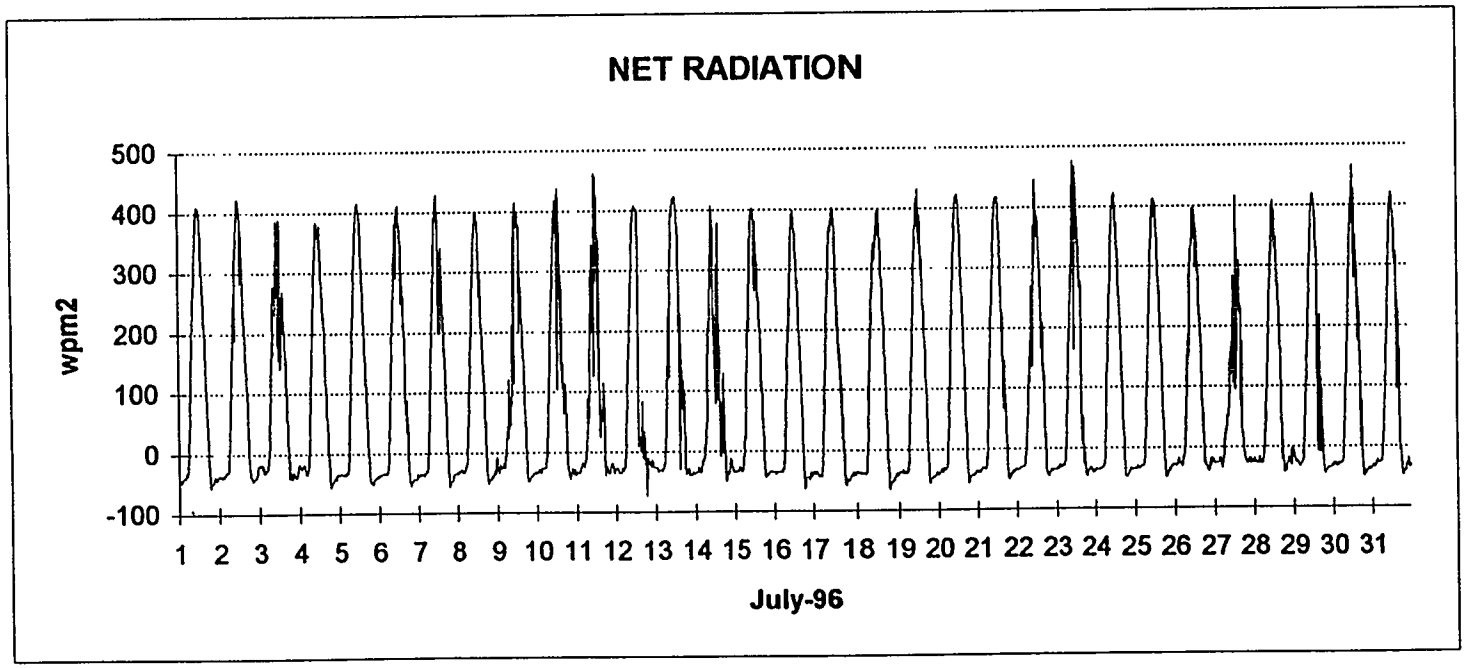
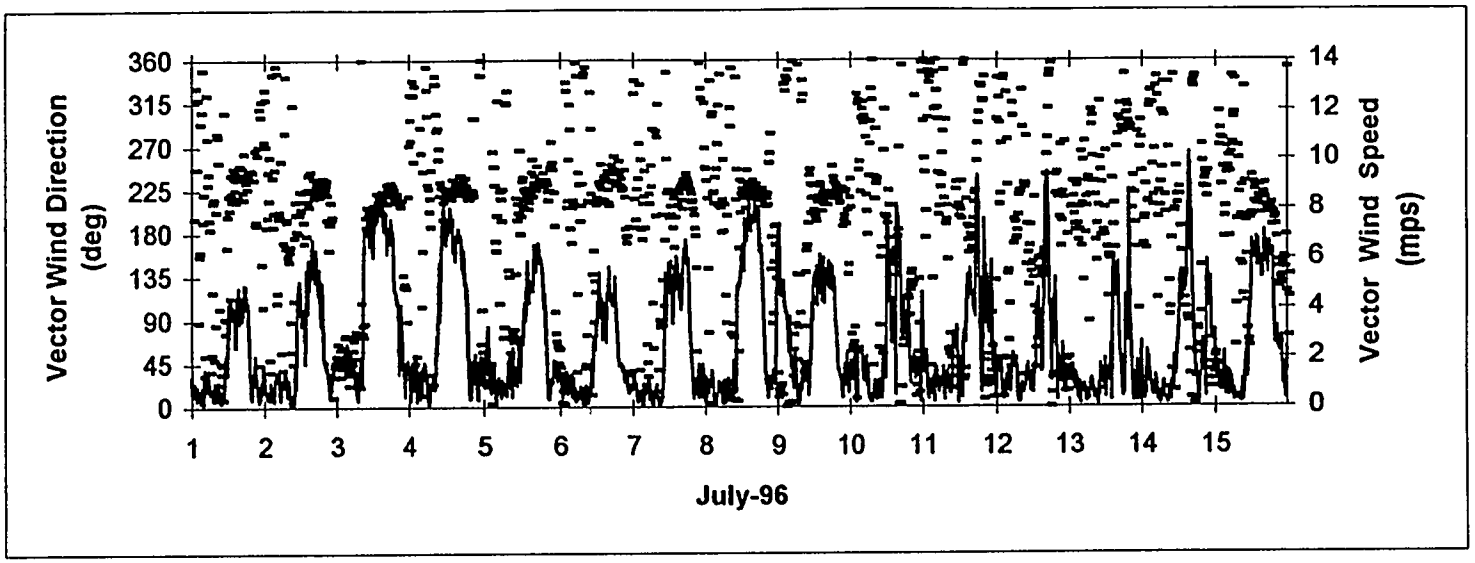
July-96


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
July-96

2 METER


Vector Wind Direction (deg)
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225
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135
90
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Vector Wind Speed (mps)
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8
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4
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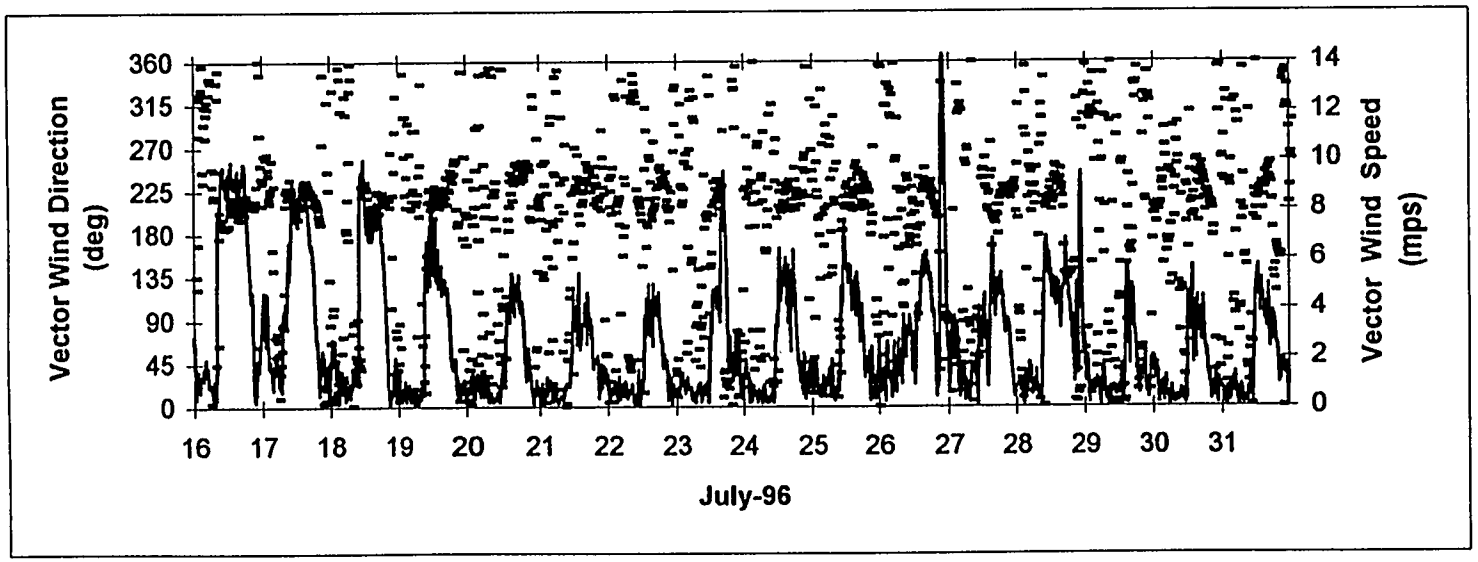
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
July-96


Vector Wind Direction (deg)
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0
Vector Wind Speed (mps)
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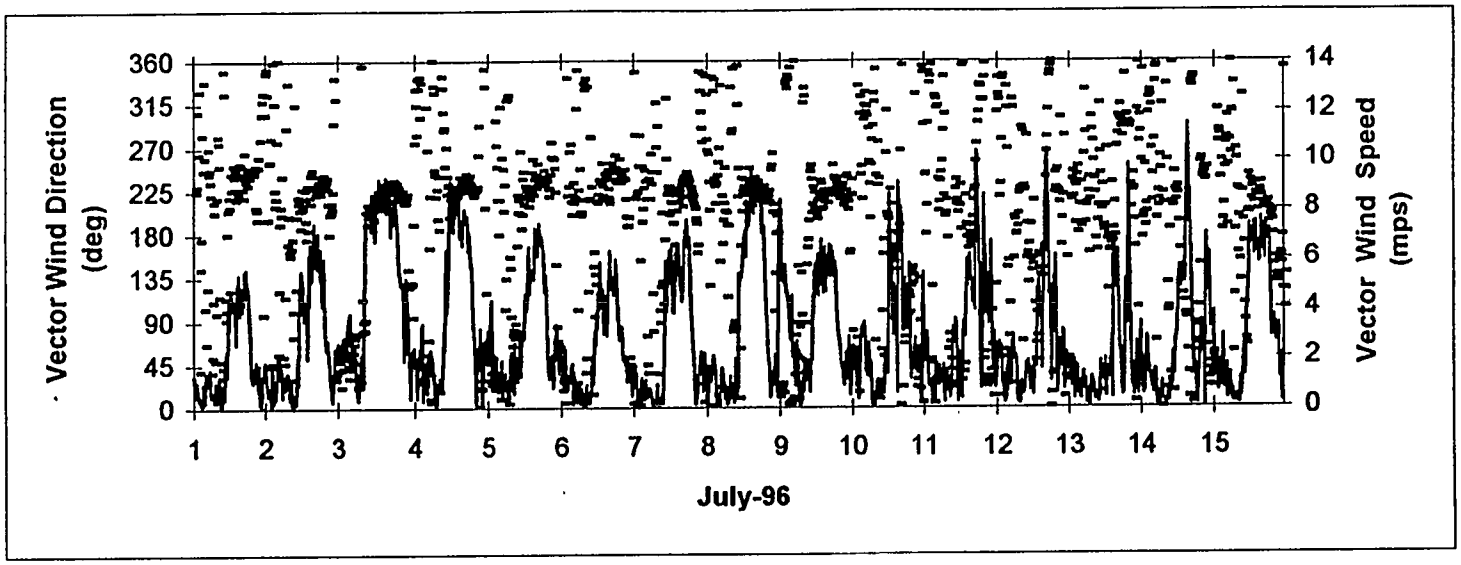
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
July-96

8 METER


Vector Wind Direction (deg)
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Vector Wind Speed (mps)
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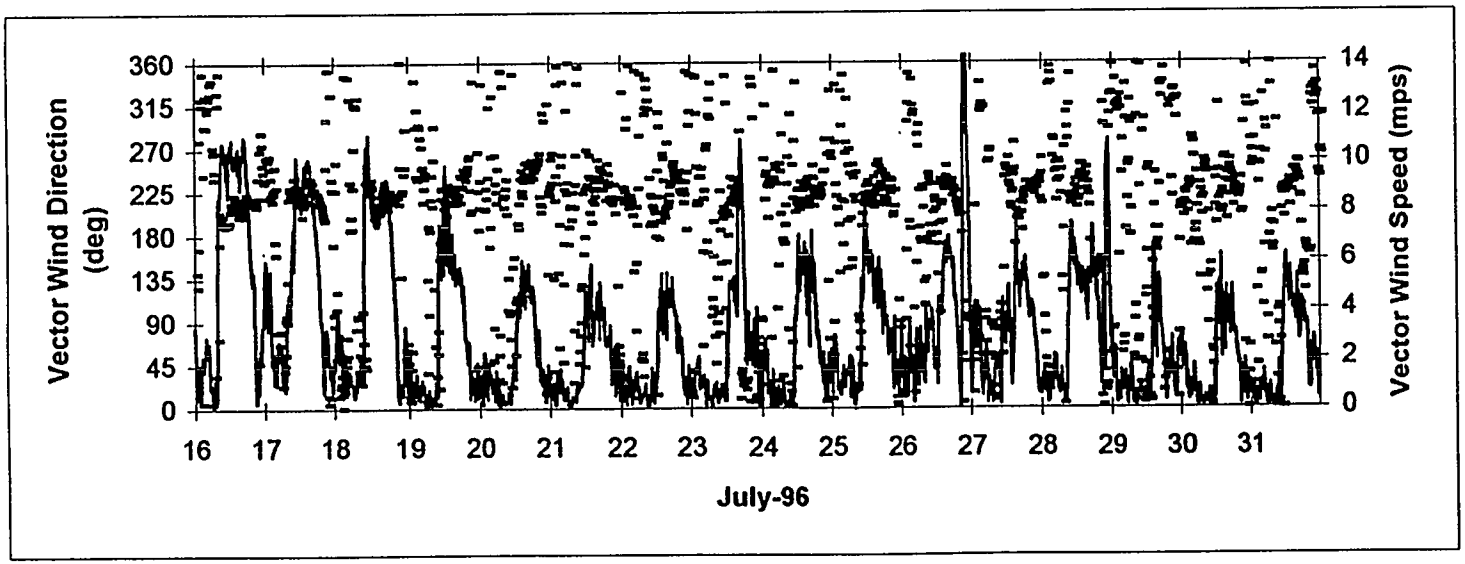
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
July-96


Vector Wind Direction (deg)
360
315
270
225
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135
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45
0
Vector Wind Speed (mps)
14
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10
8
6
4
2
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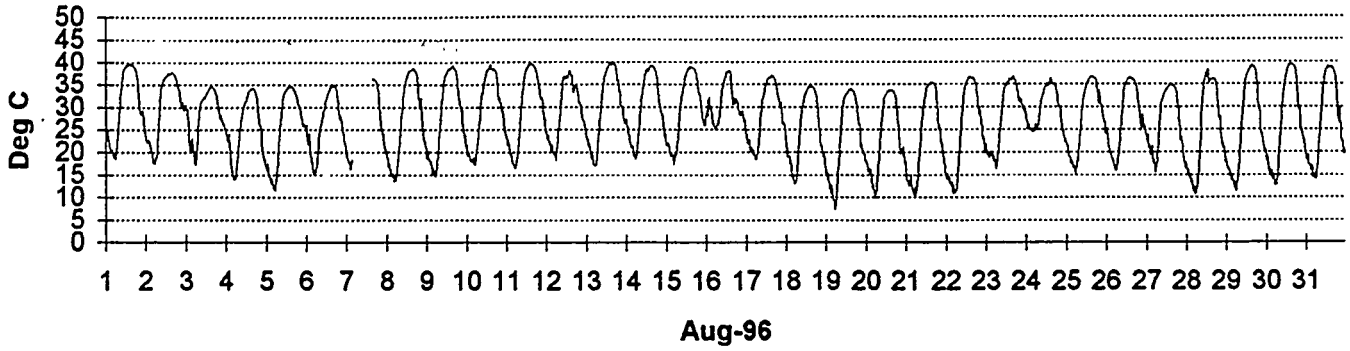
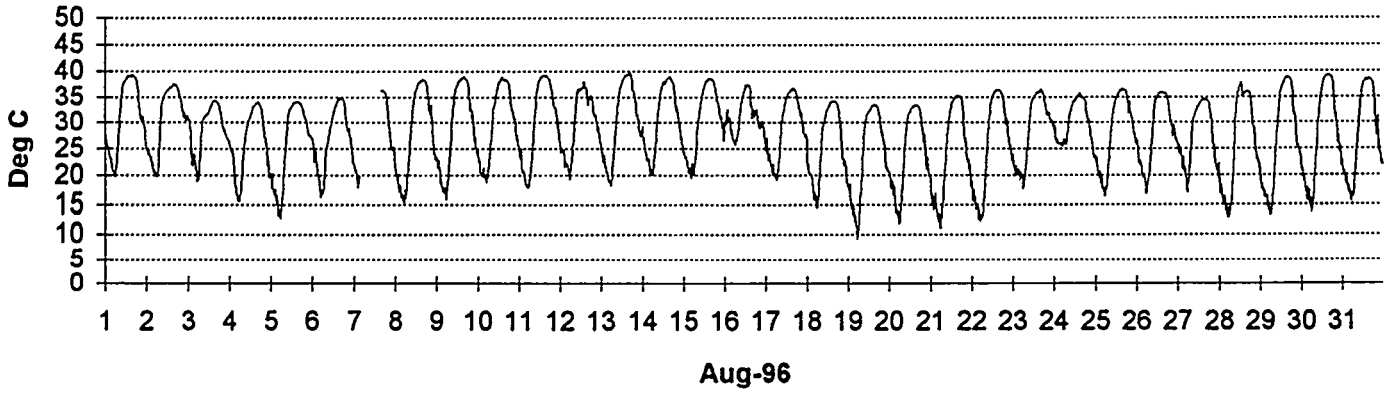
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
July-96

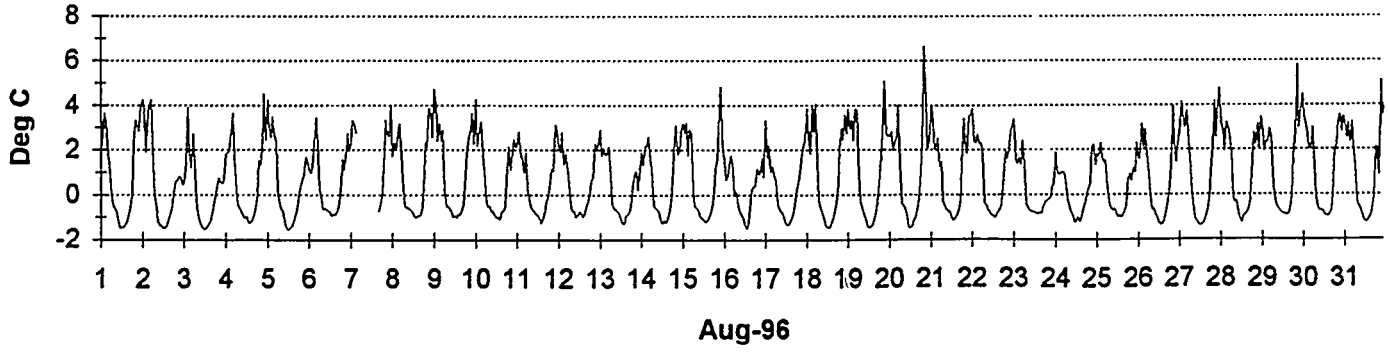
2 METER TEMPERATURE

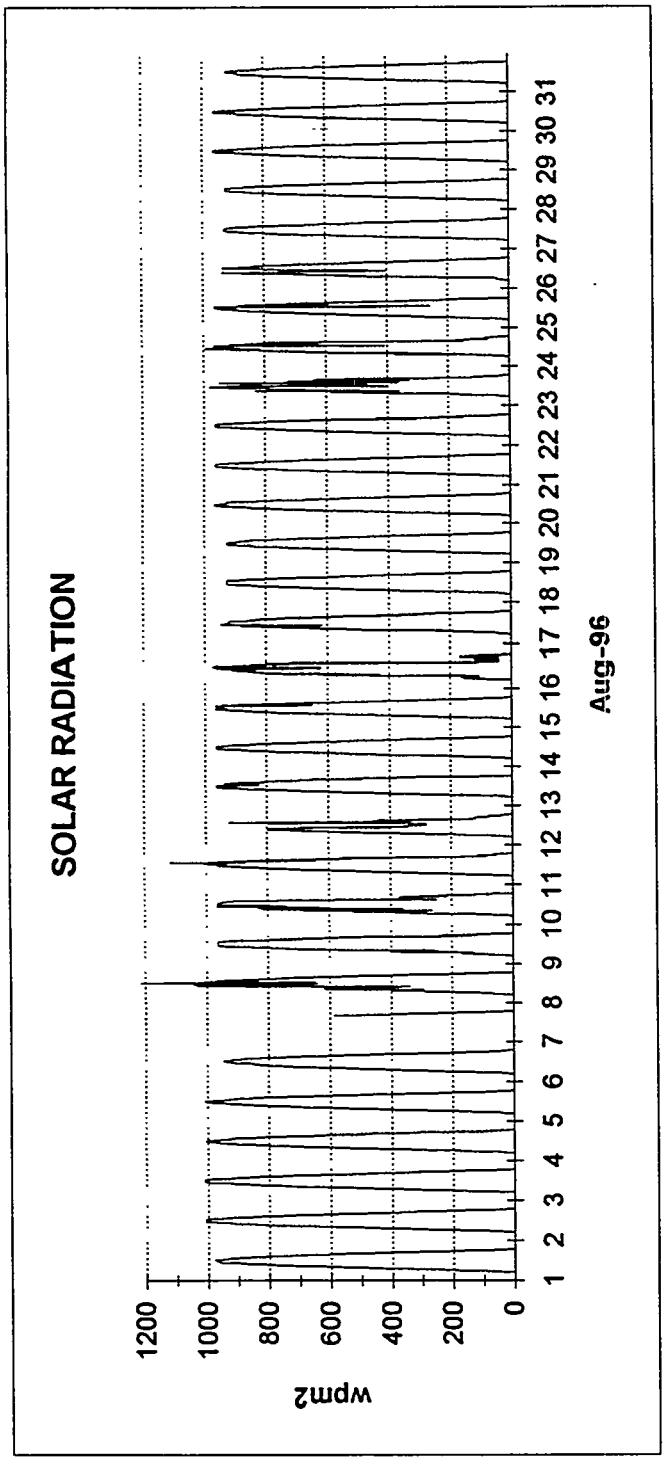


8 METER TEMPERATURE



TEMPERATURE DIFFERENCE, 2 TO 16 METER




SOLAR RADIATION
wpm2
1200
1000
800
600
400
200
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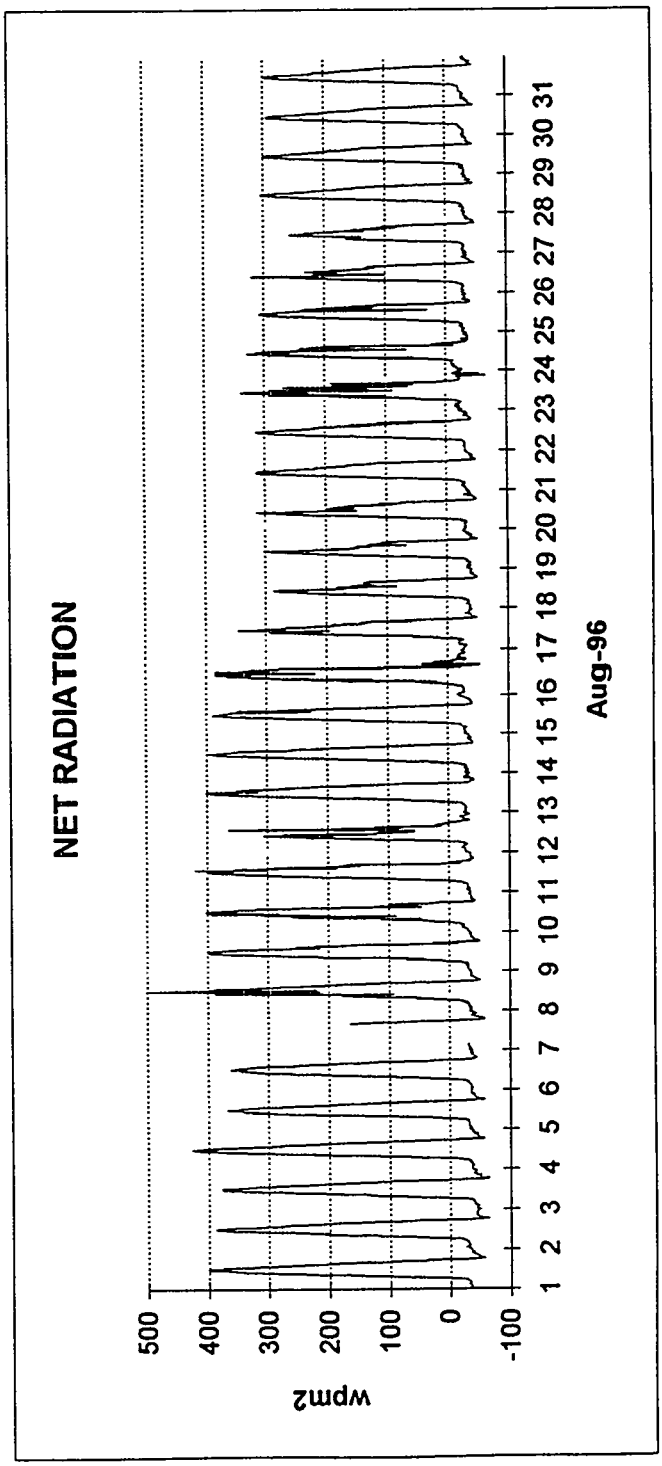
Aug-96


NET RADIATION
wpm2
500
400
300
200
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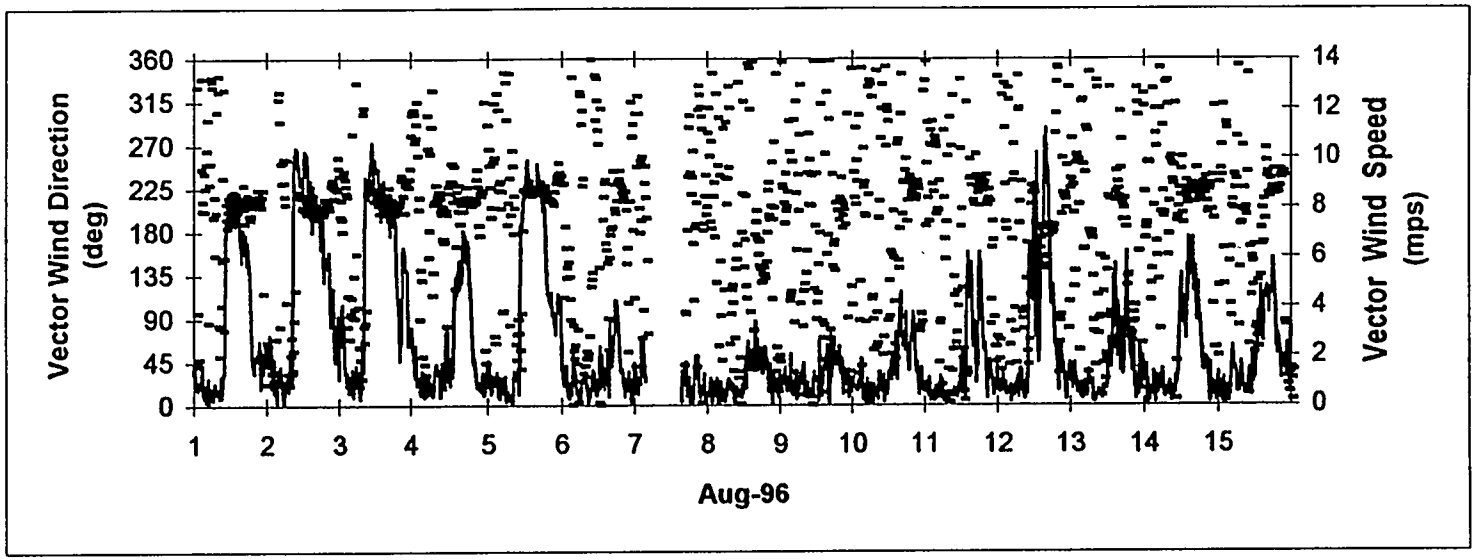
0
-100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Aug-96

2 METER


Vector Wind Direction (deg)
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225
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0
Vector Wind Speed (mps)
14
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8
6
4
2
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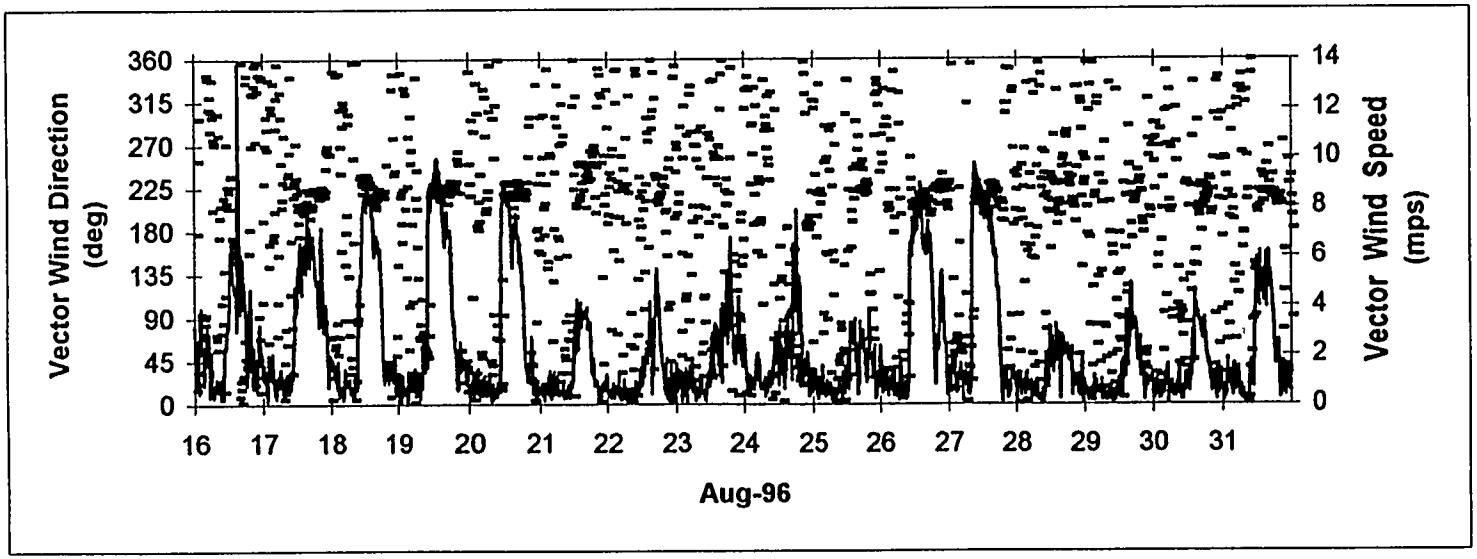
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Aug-96


Vector Wind Direction (deg)
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0
Vector Wind Speed (mps)
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0
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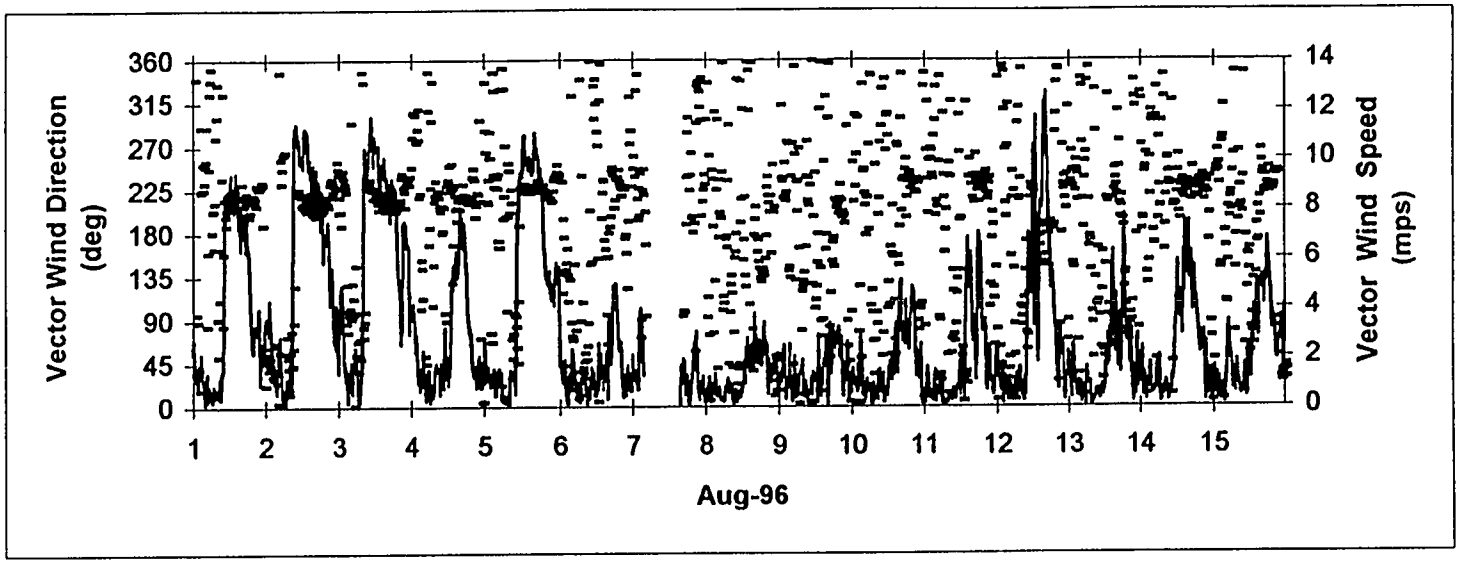
Aug-96

8 METER


Vector Wind Direction (deg)
360
315
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225
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135
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Vector Wind Speed (mps)
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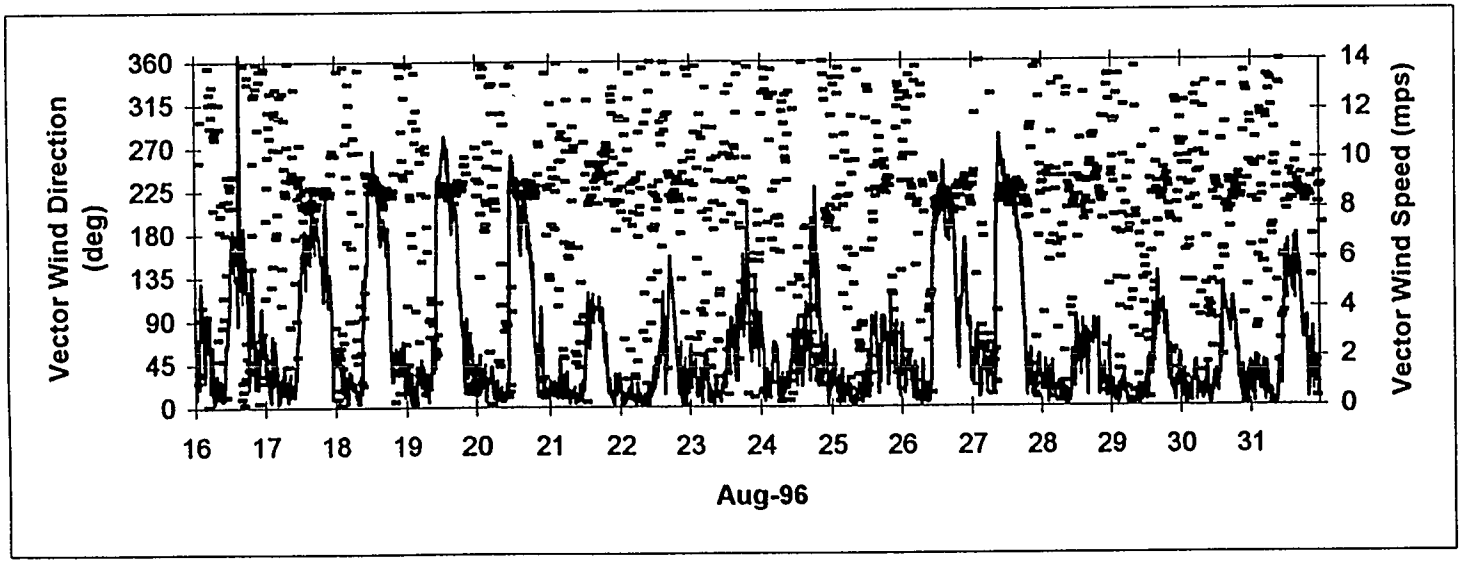
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Aug-96


Vector Wind Direction (deg)
360
315
270
225
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135
90
45
0
Vector Wind Speed (mps)
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10
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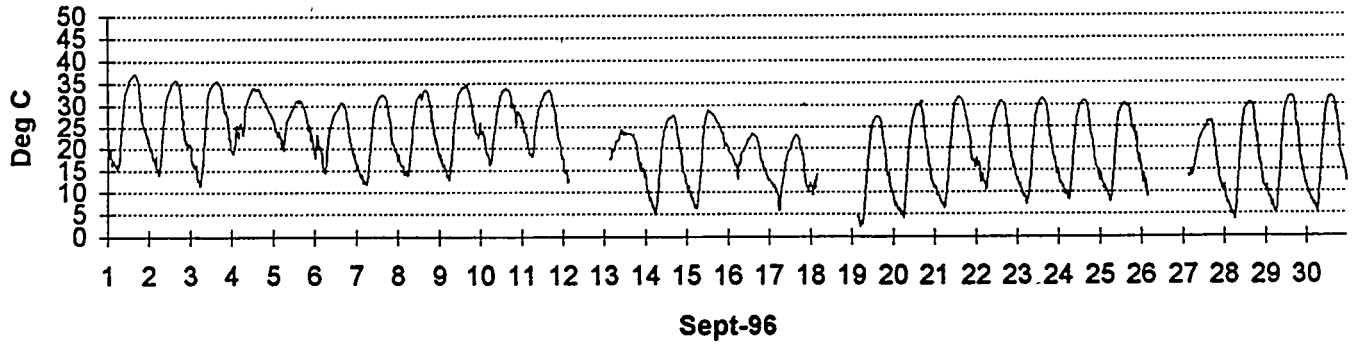
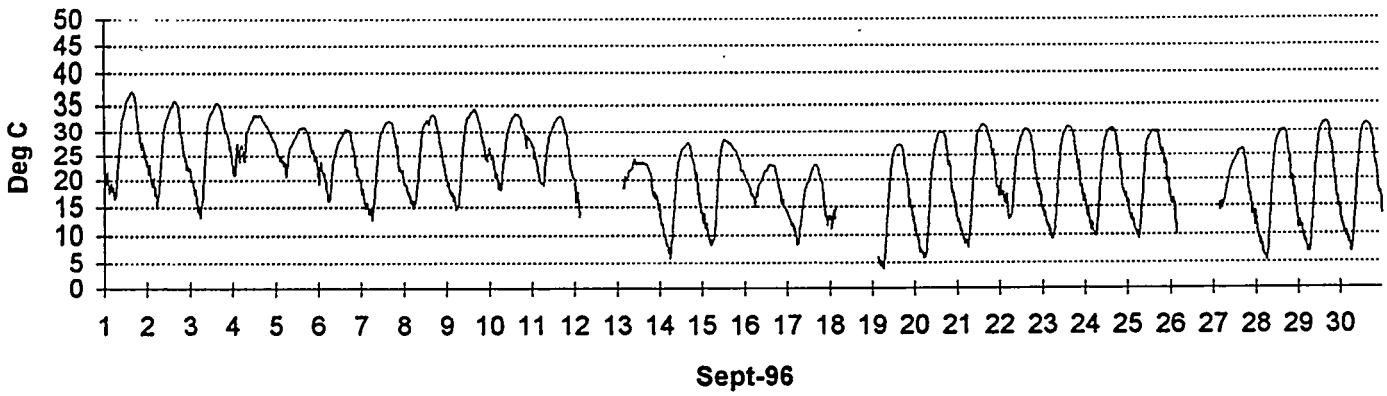
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Aug-96

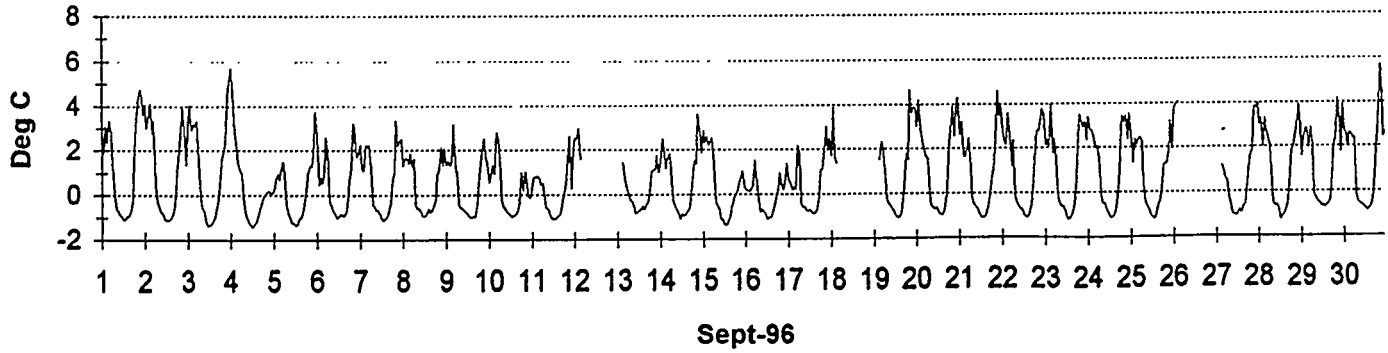
2 METER TEMPERATURE

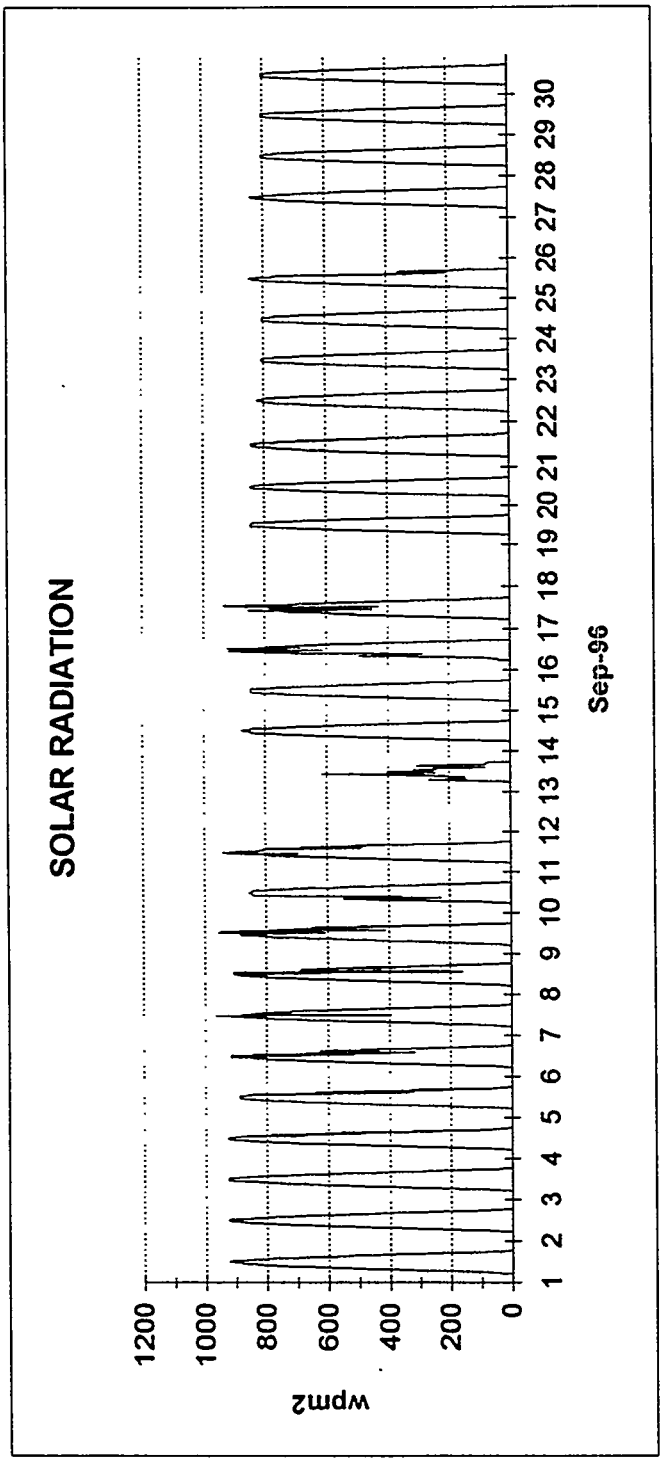


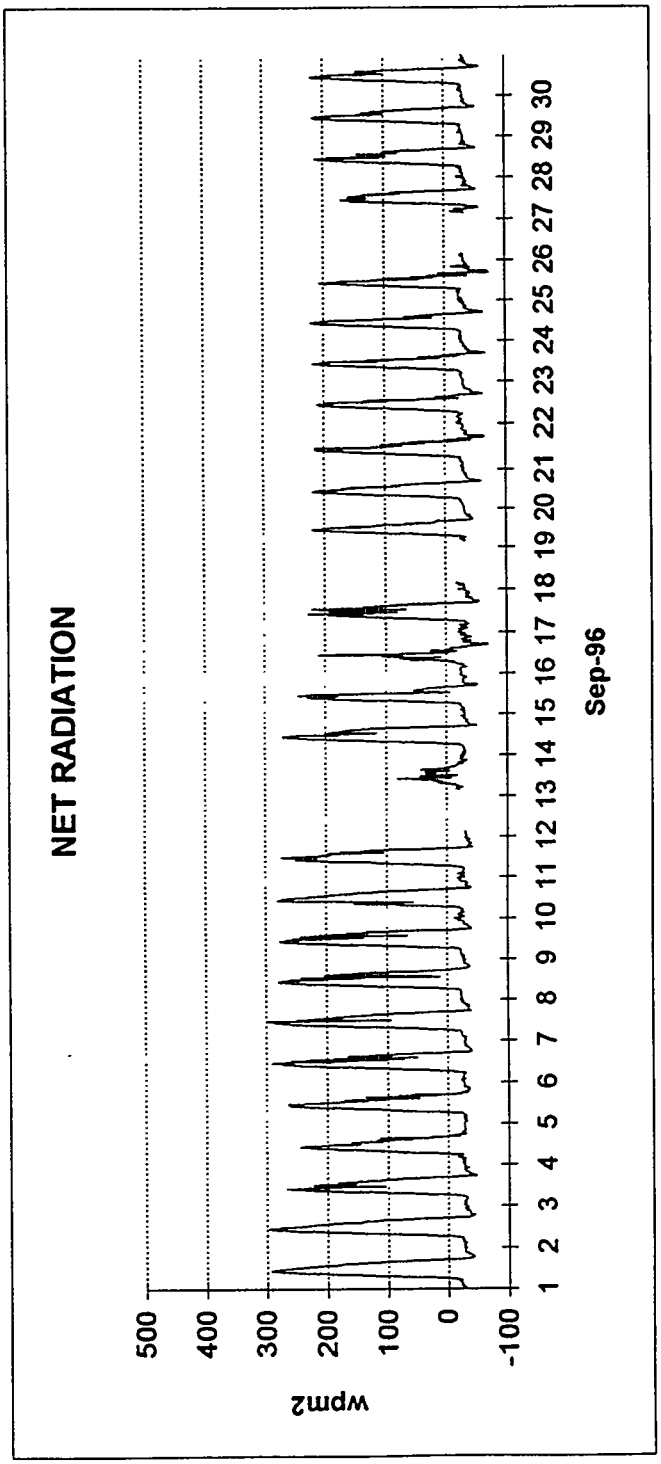
8 METER TEMPERATURE



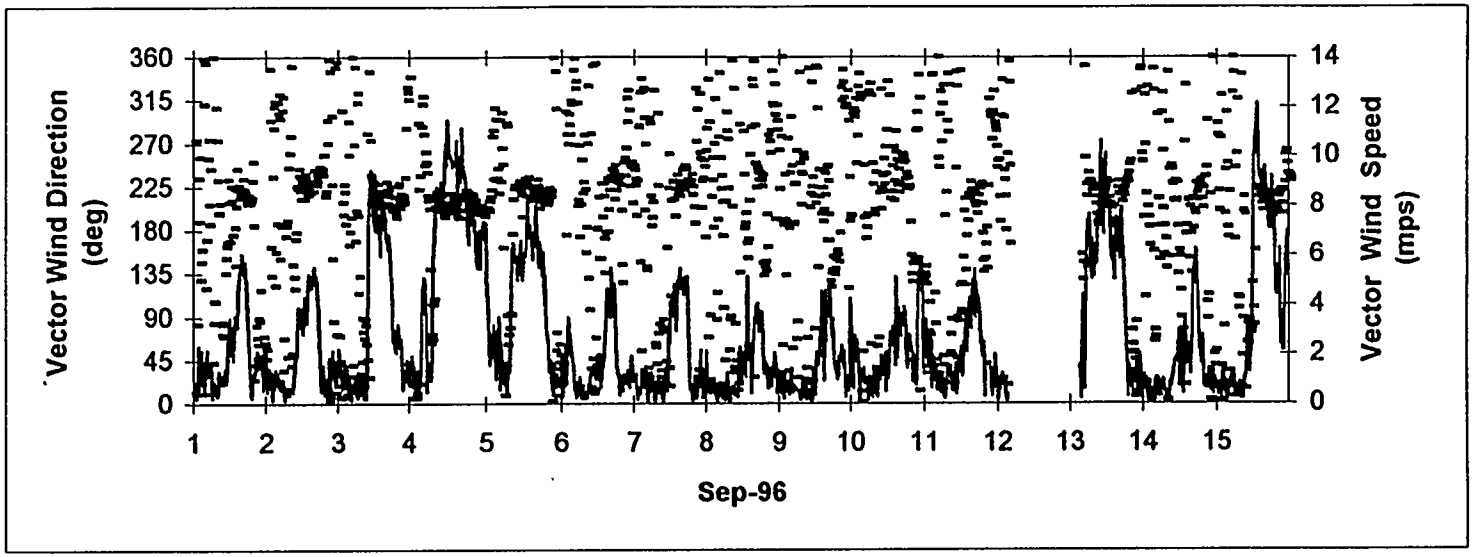
TEMPERATURE DIFFERENCE, 2 TO 16 METER




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-96


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-96

2 METER


Vector Wind Direction (deg)
360
315
270
225
180
135
90
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Vector Wind Speed (mps)
14
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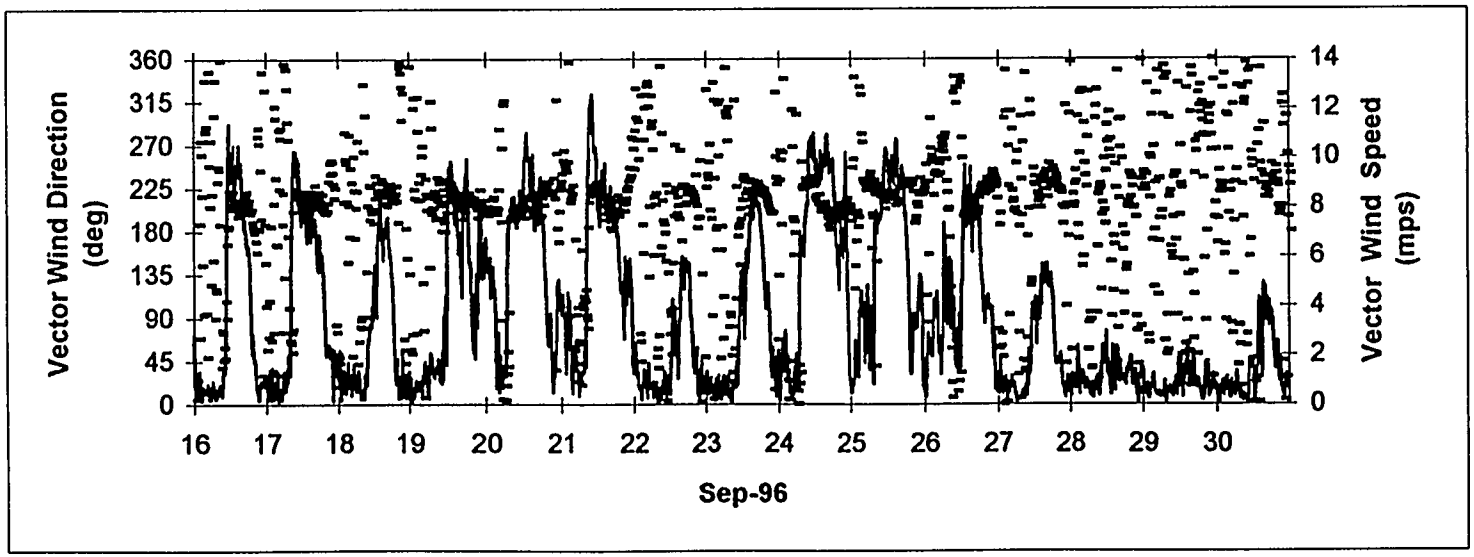
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Sep-96


Vector Wind Direction (deg)
360
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Vector Wind Speed (mps)
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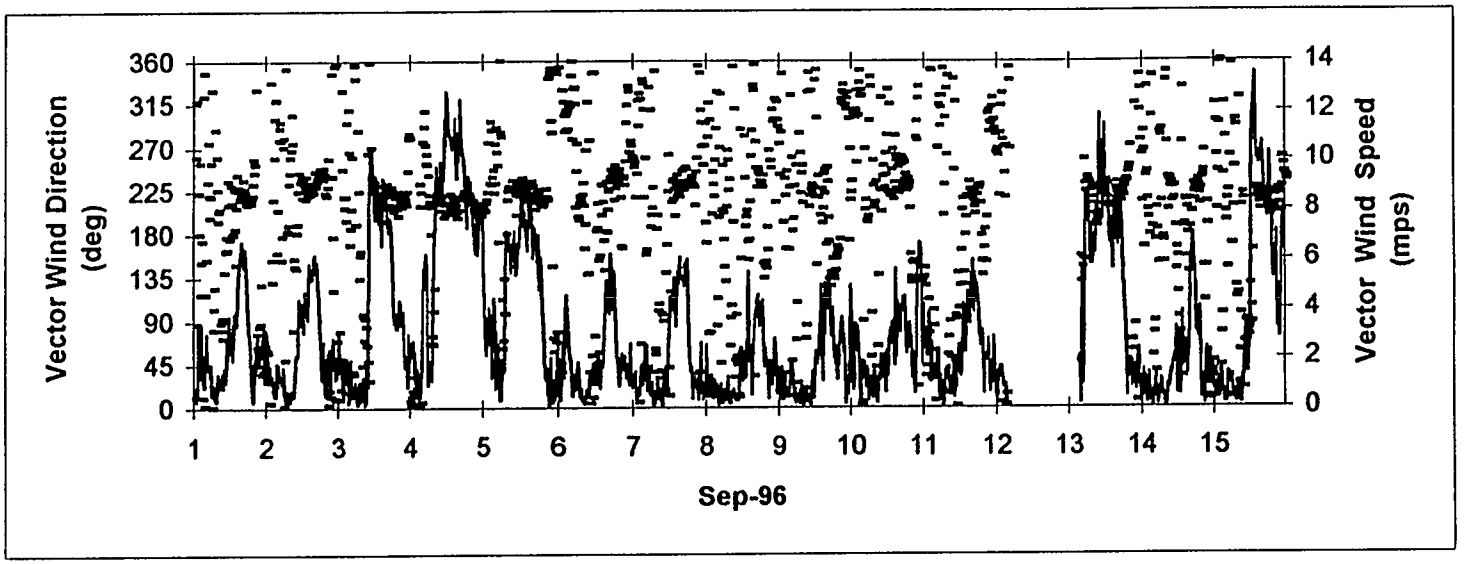
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Sep-96

8 METER


Vector Wind Direction (deg)
360
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225
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Vector Wind Speed (mps)
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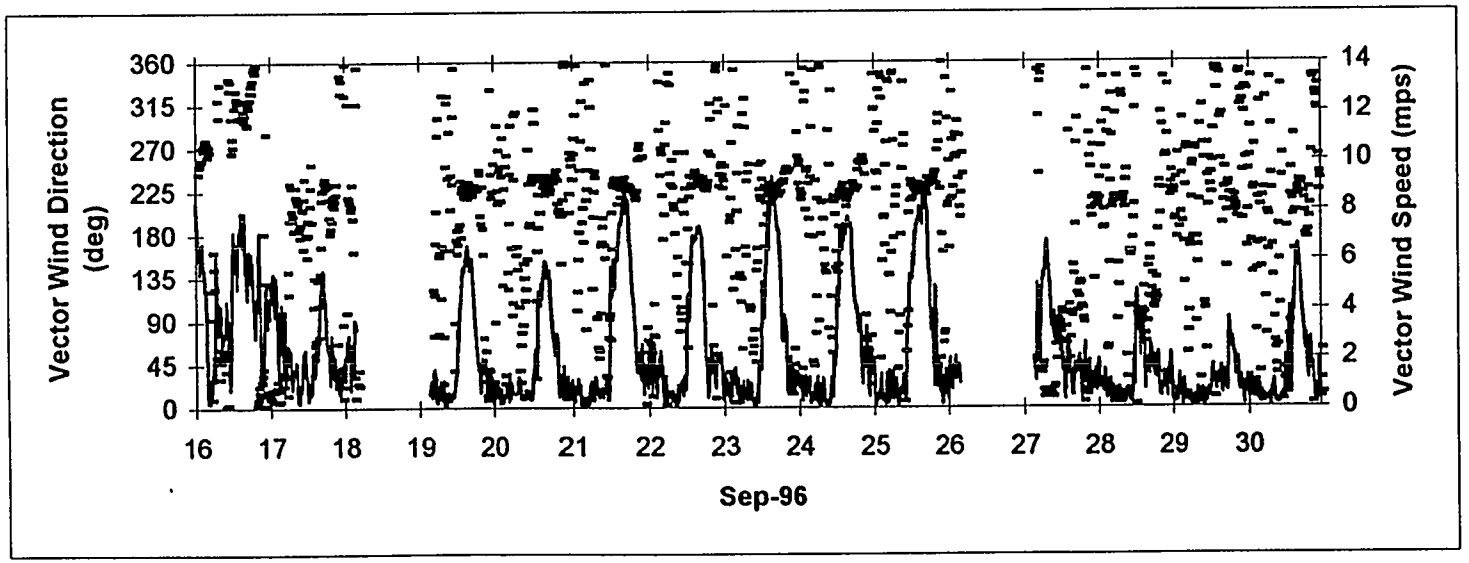
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Sep-96


Vector Wind Direction (deg)
360
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225
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Vector Wind Speed (mps)
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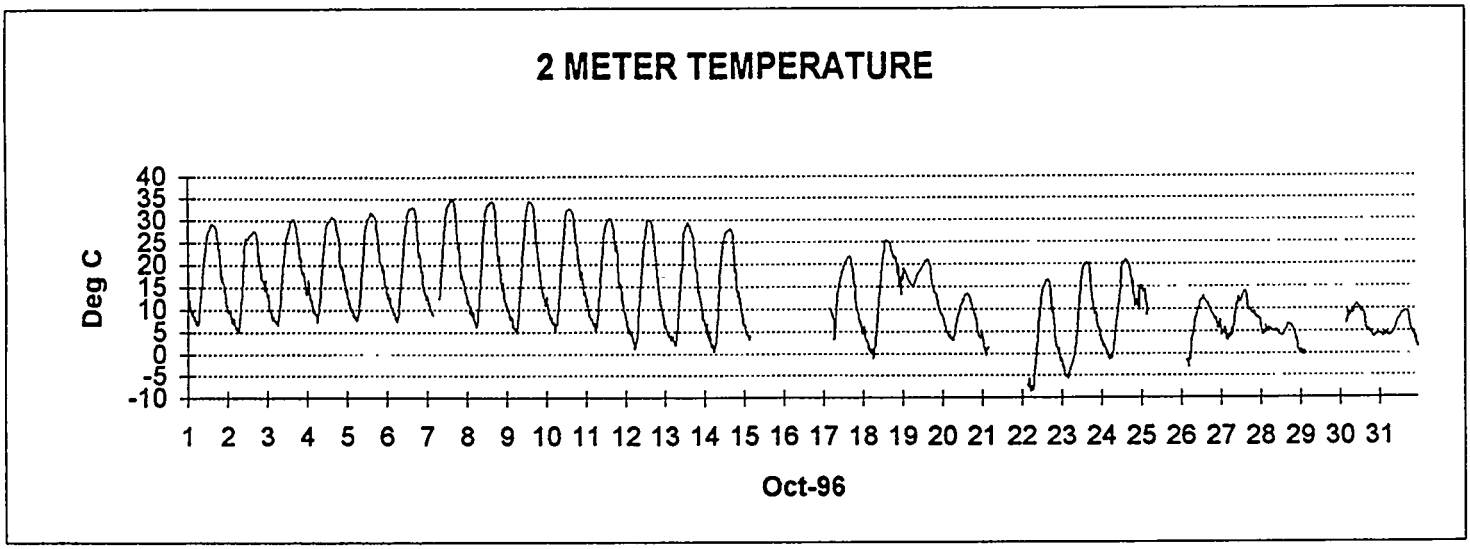
Sep-96


2 METER TEMPERATURE
Deg C
40
35
30
25
20
15
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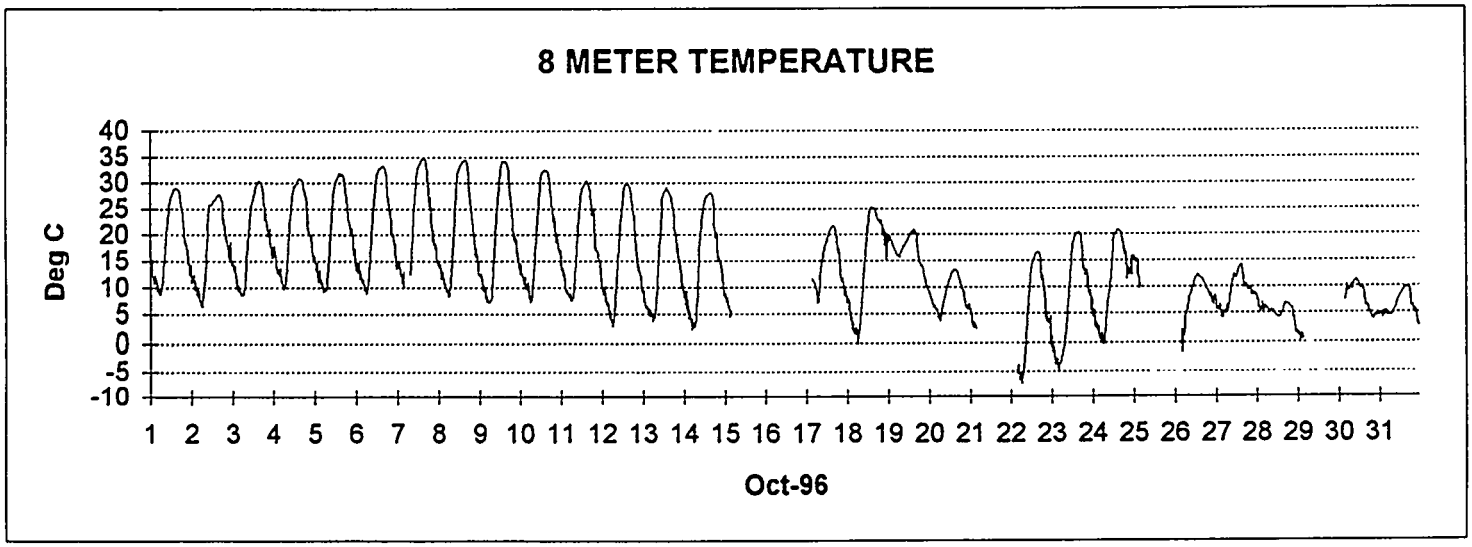
5
0
-5
-10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Oct-96


8 METER TEMPERATURE
Deg C
40
35
30
25
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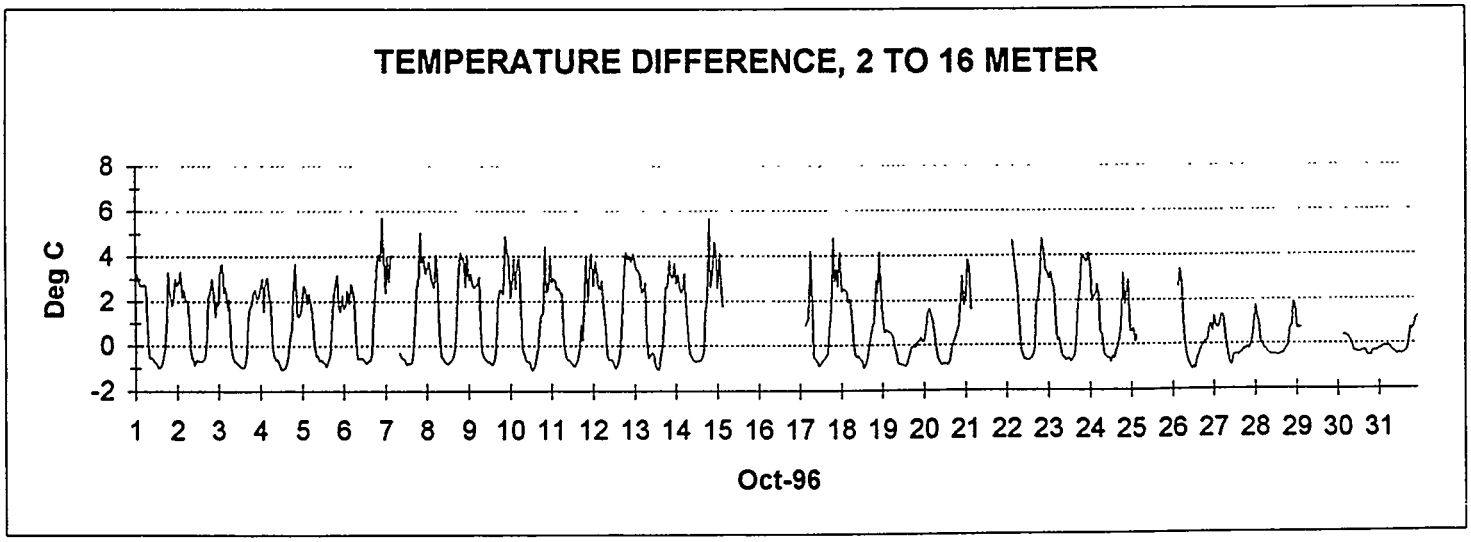
0
-5
-10
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Oct-96


TEMPERATURE DIFFERENCE, 2 TO 16 METER
Deg C
8
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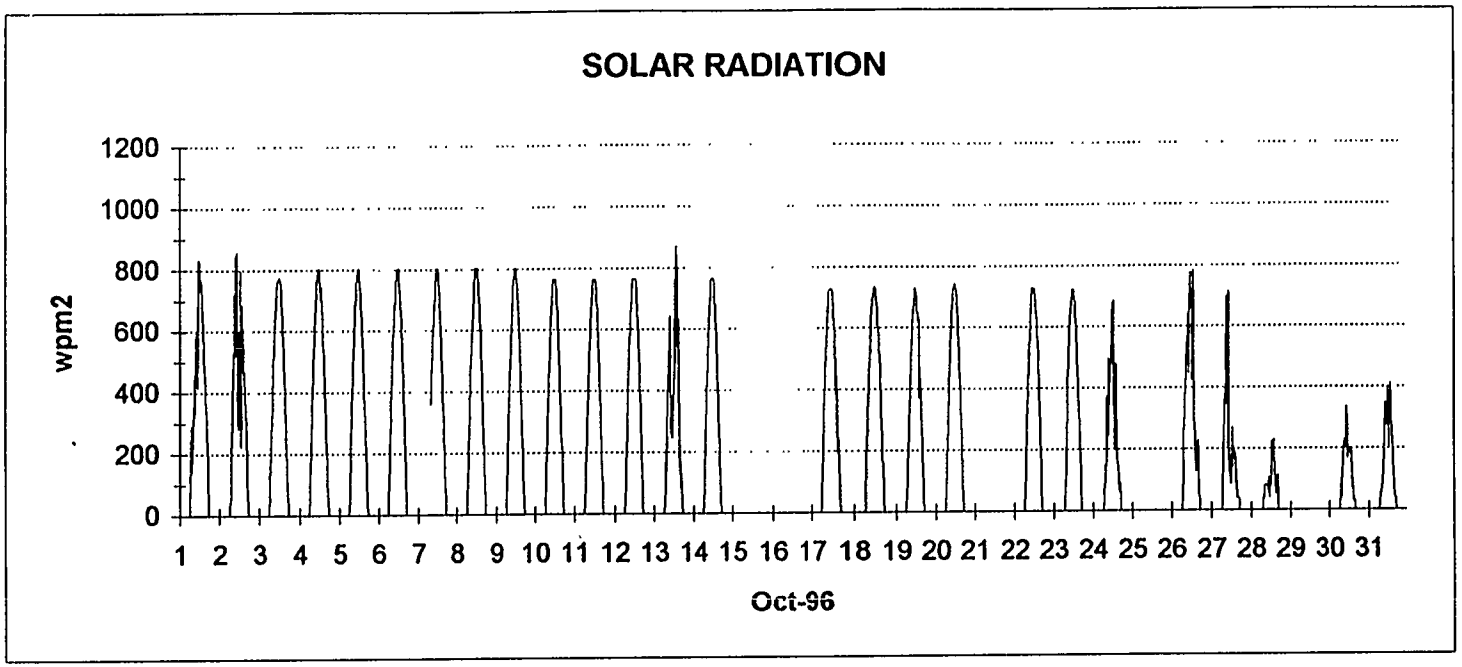
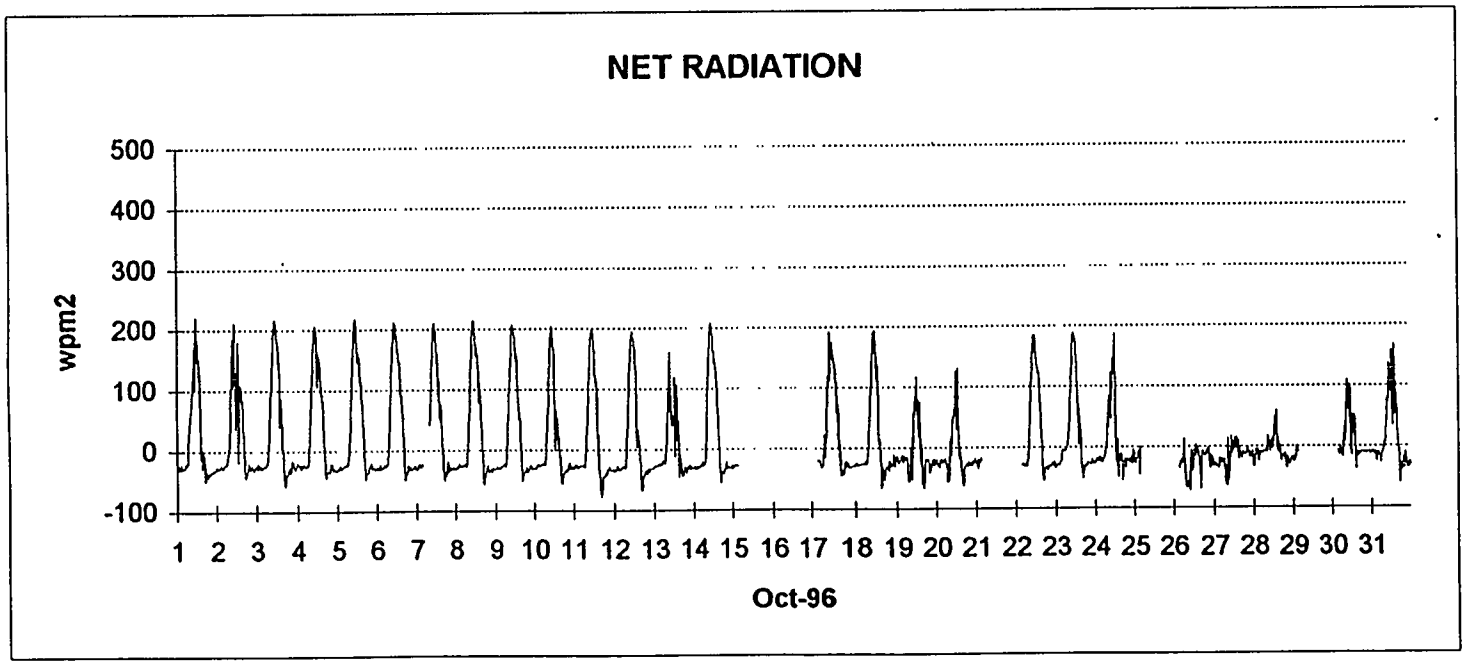
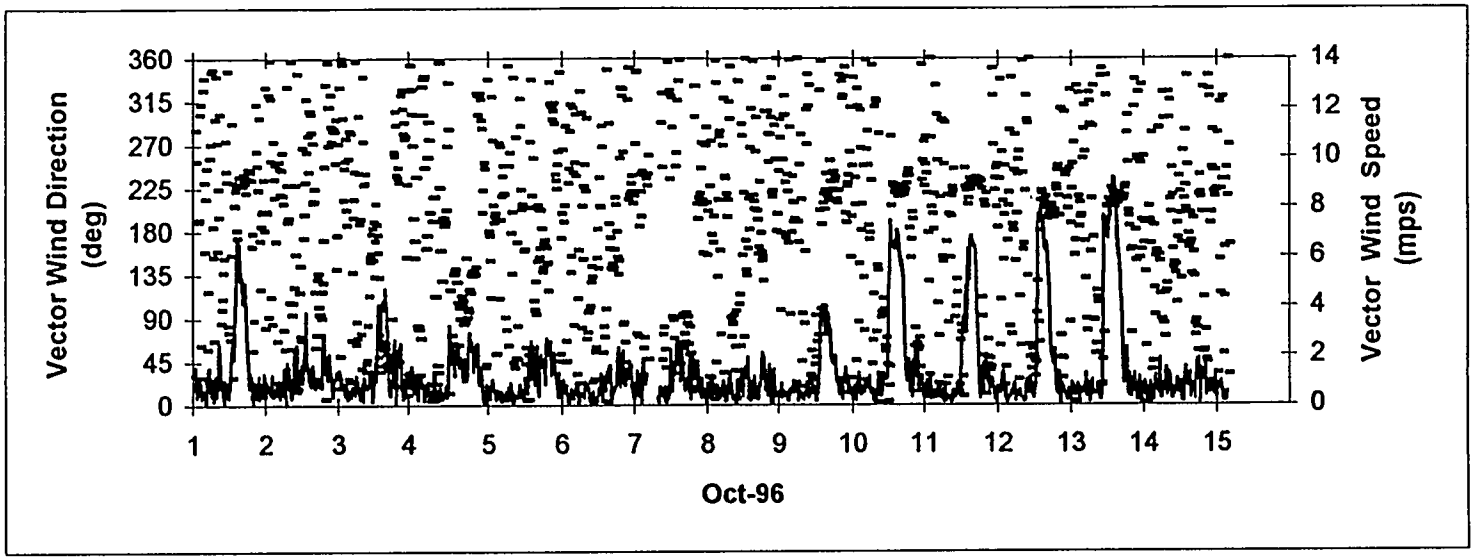
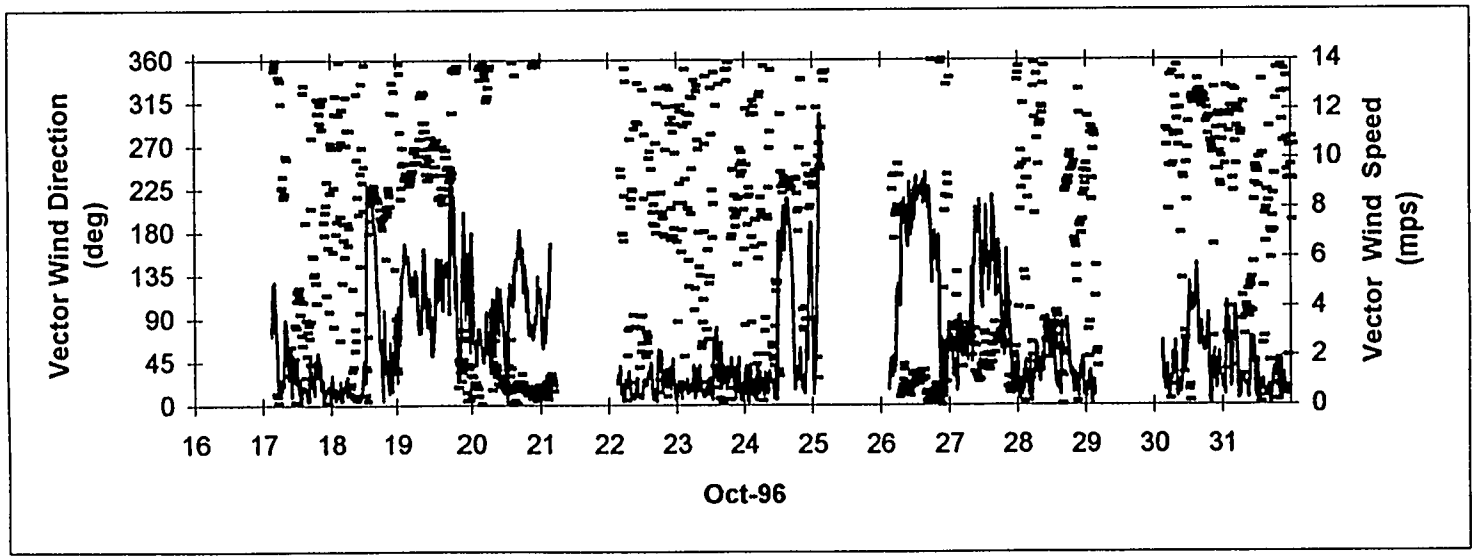
4
2
0
-2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Oct-96


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-96

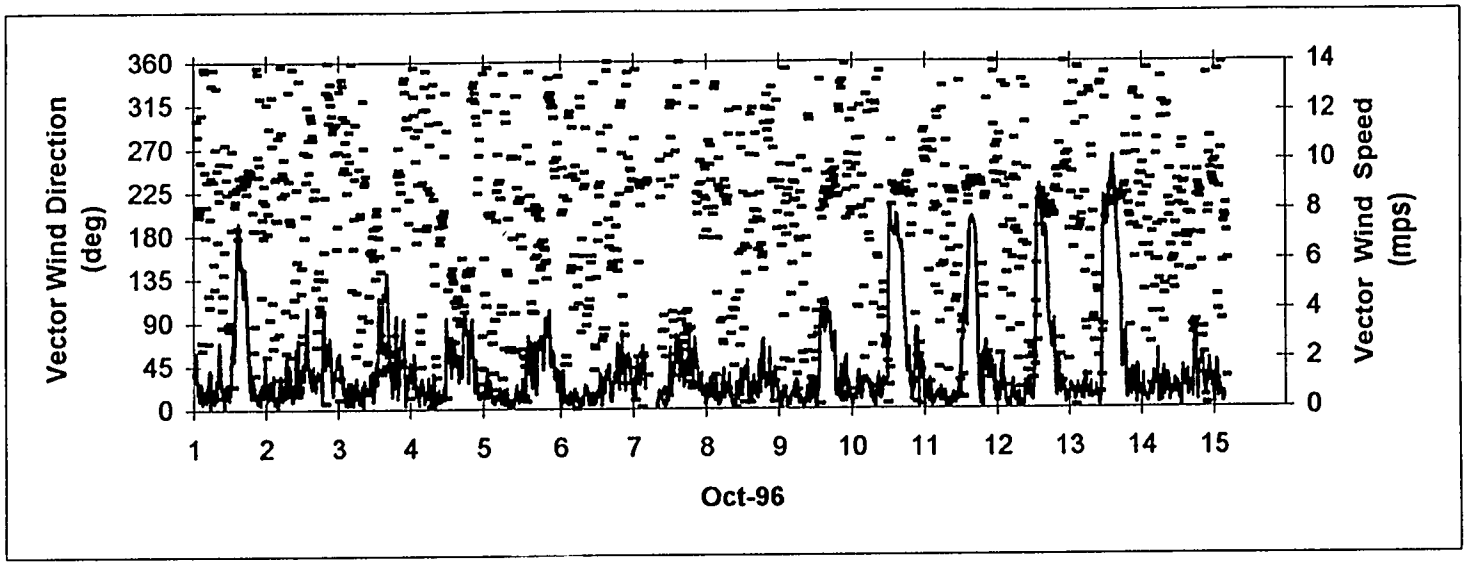

NET RADIATION
wpm2
500
400
300
200
100
0
-100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Oct-96

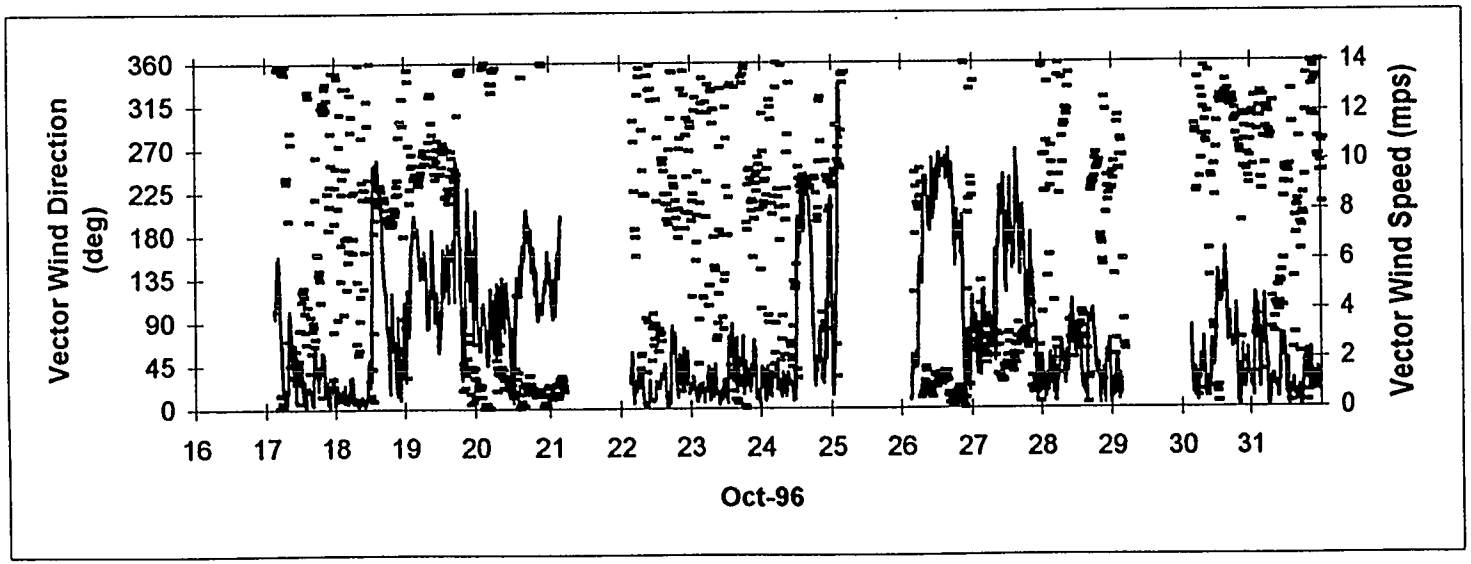
2 METER

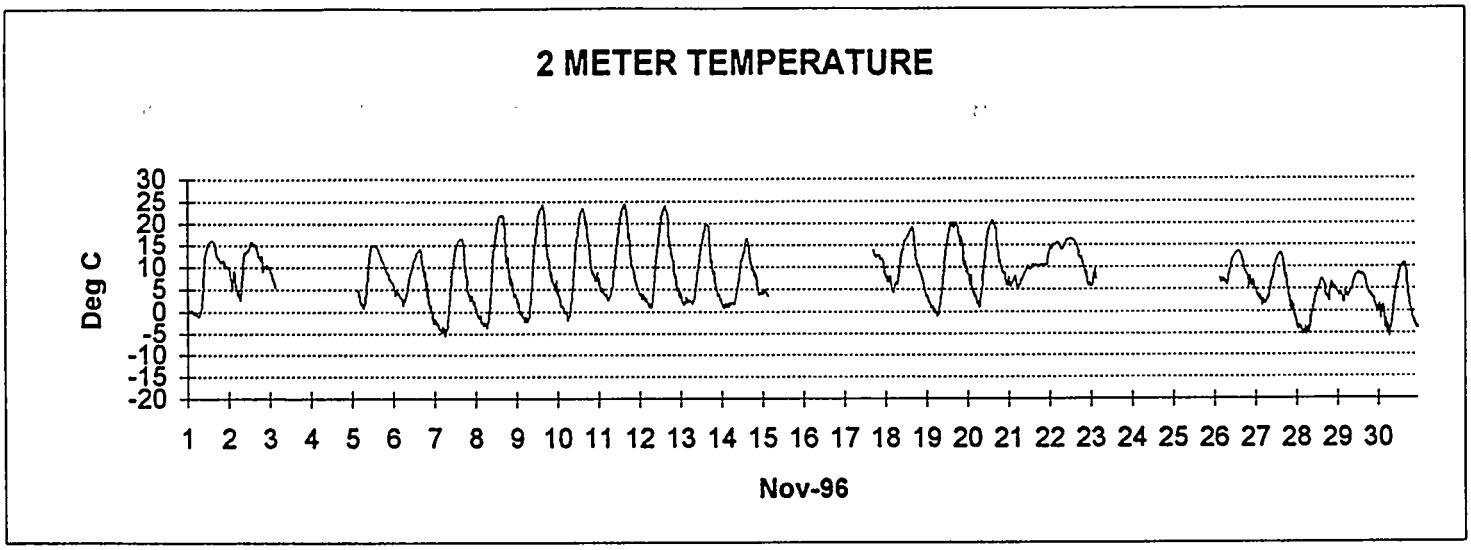

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Oct-96
Vector Wind Speed (mps)
14
12
10
8
6
4
2
0

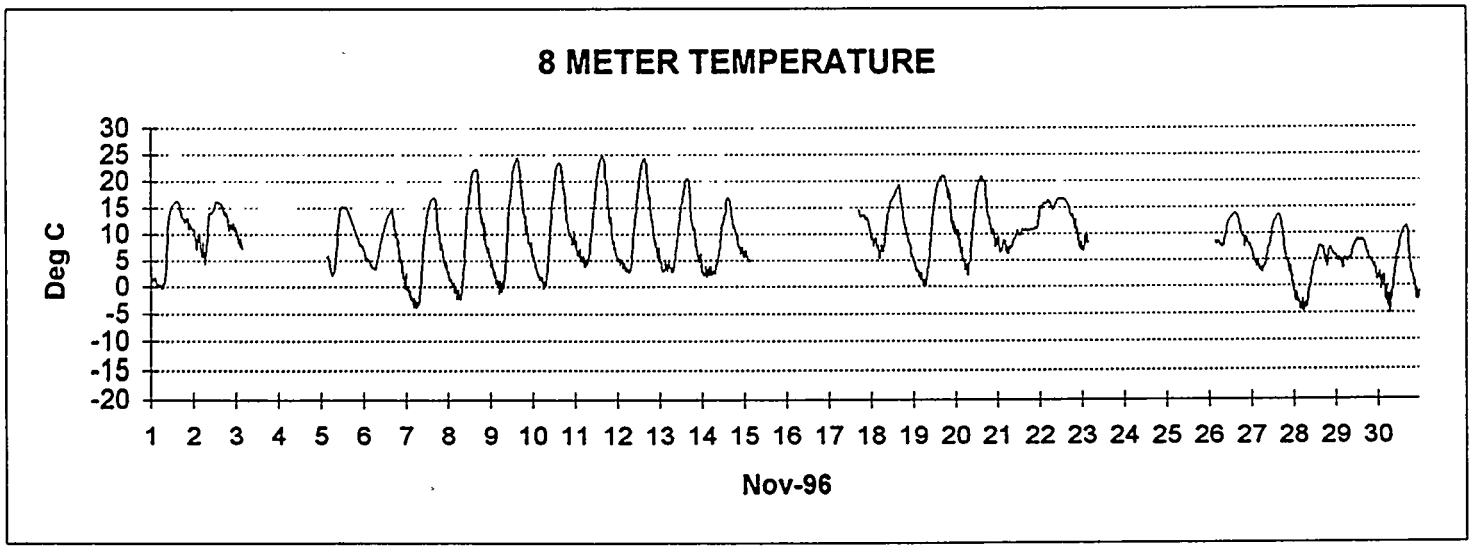

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Oct-96
Vector Wind Speed (mps)
14
12
10
8
6
4
2
0

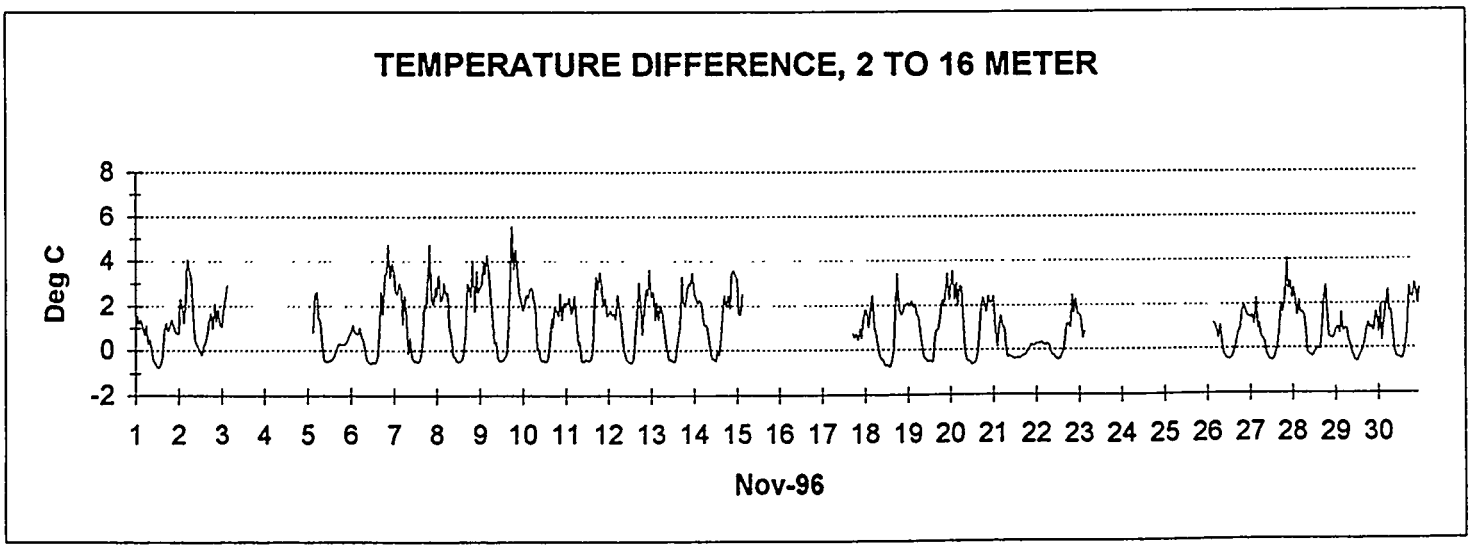
8 METER

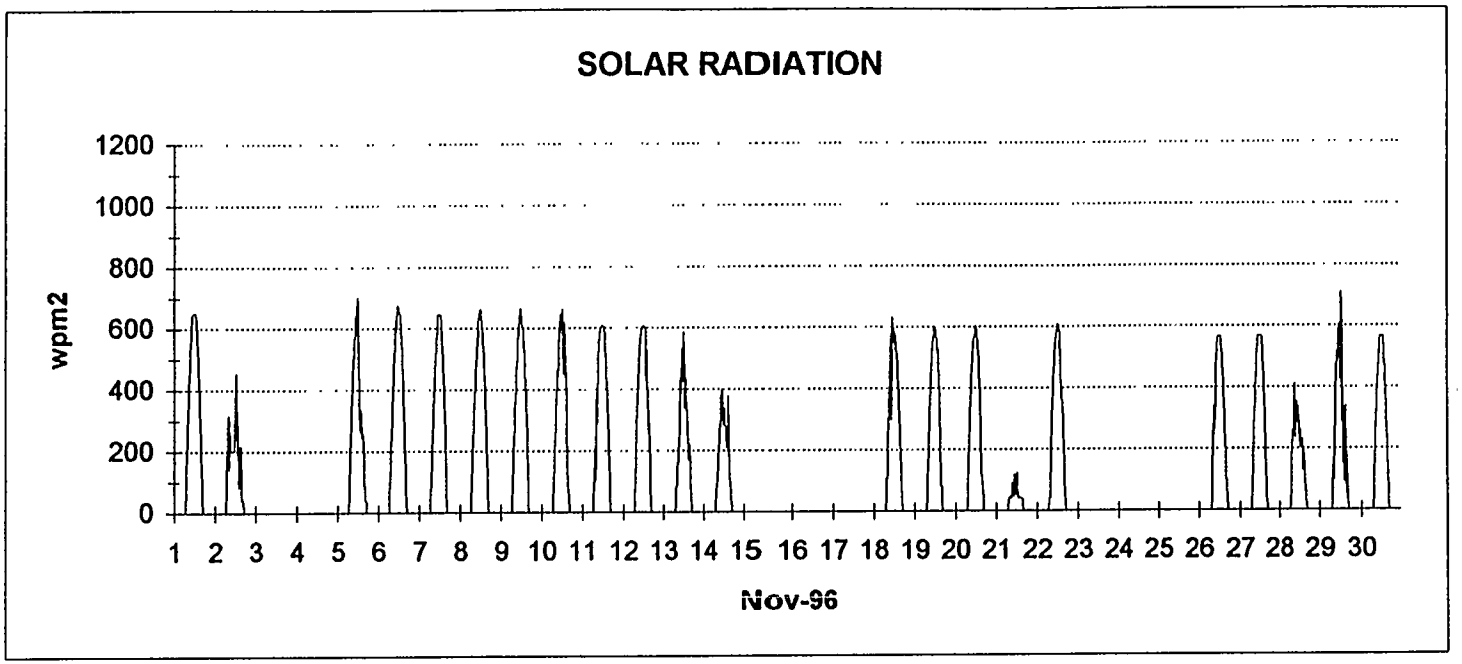

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
14
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Oct-96

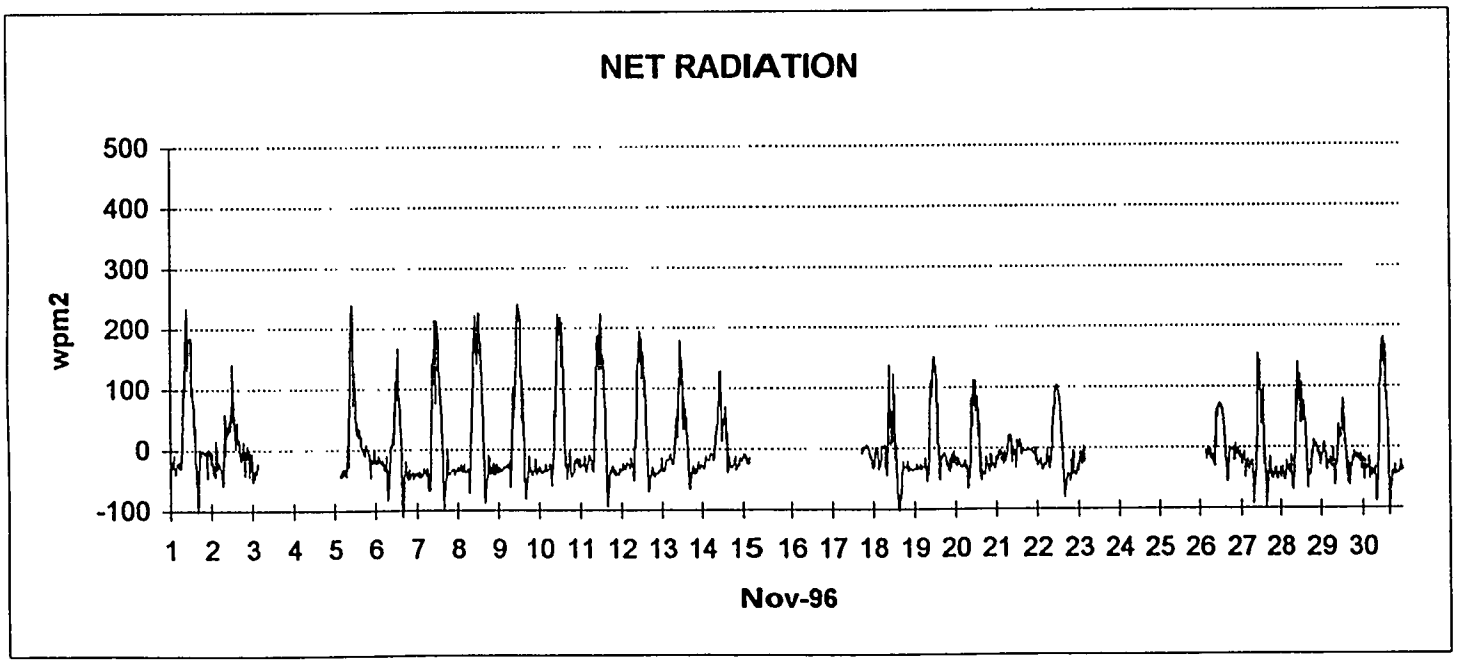

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
14
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Oct-96


2 METER TEMPERATURE
Deg C
30
25
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
Nov-96

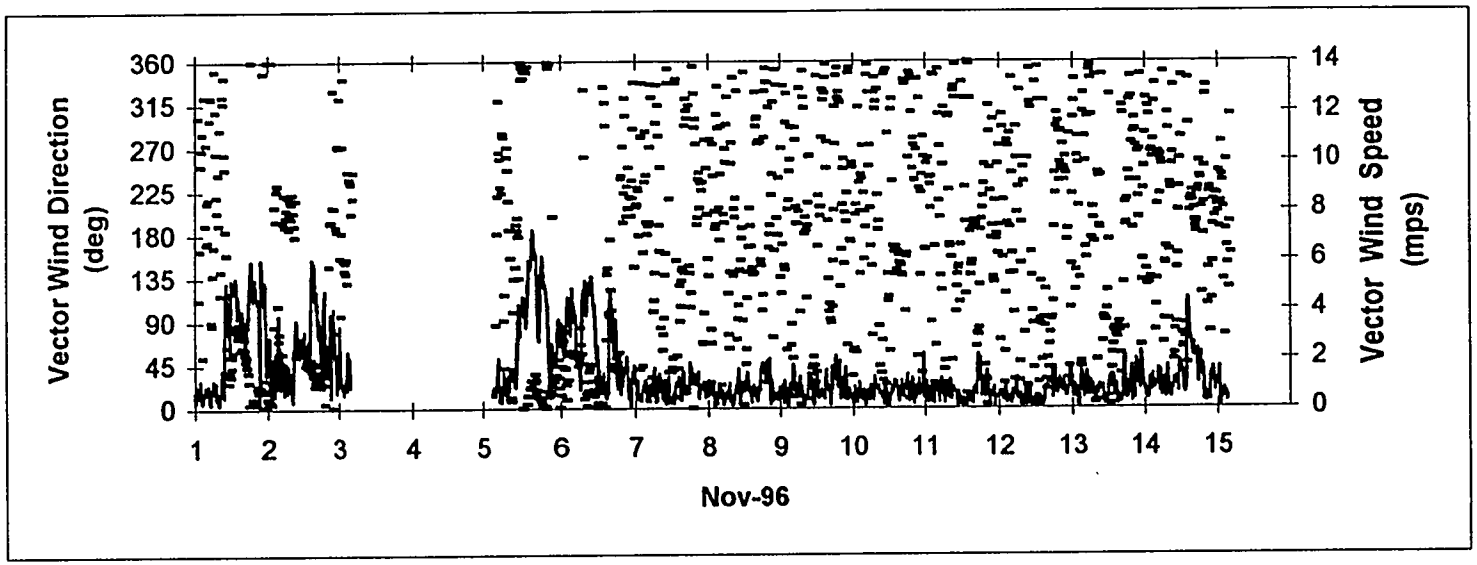

8 METER TEMPERATURE
Deg C
30
25
20
15
10
5
0
-5
-10
-15
-20
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Nov-96

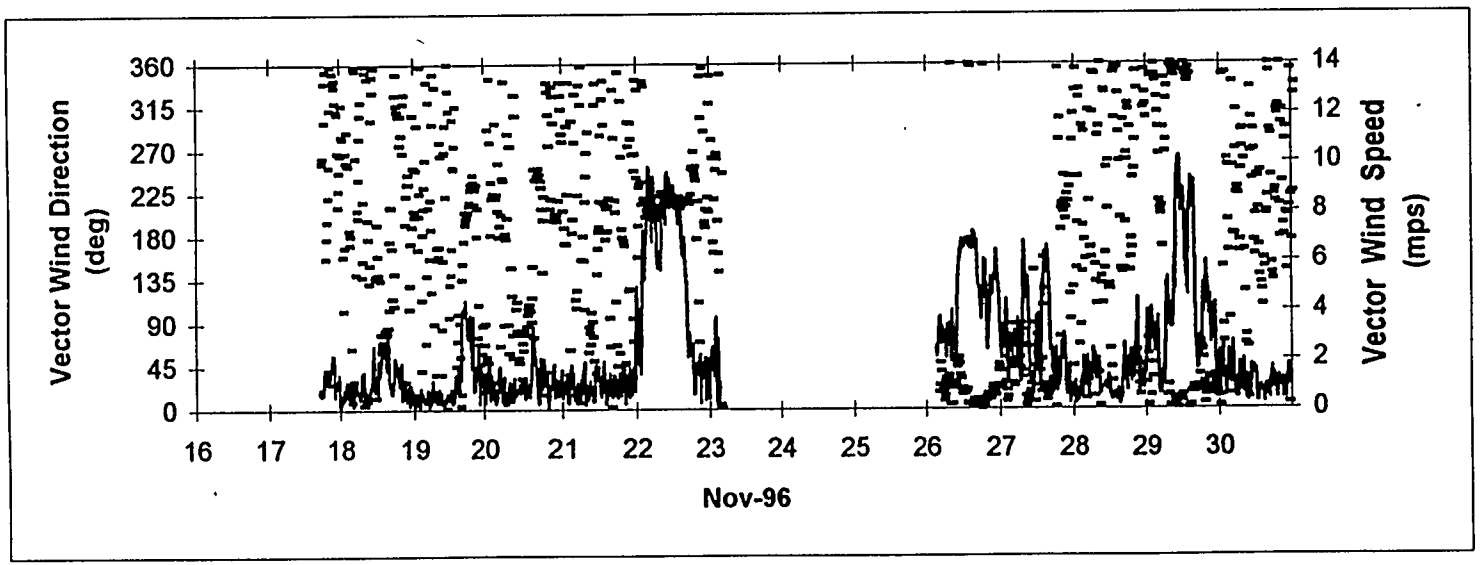

TEMPERATURE DIFFERENCE, 2 TO 16 METER
Deg C
8
6
4
2
0
-2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Nov-96


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-96

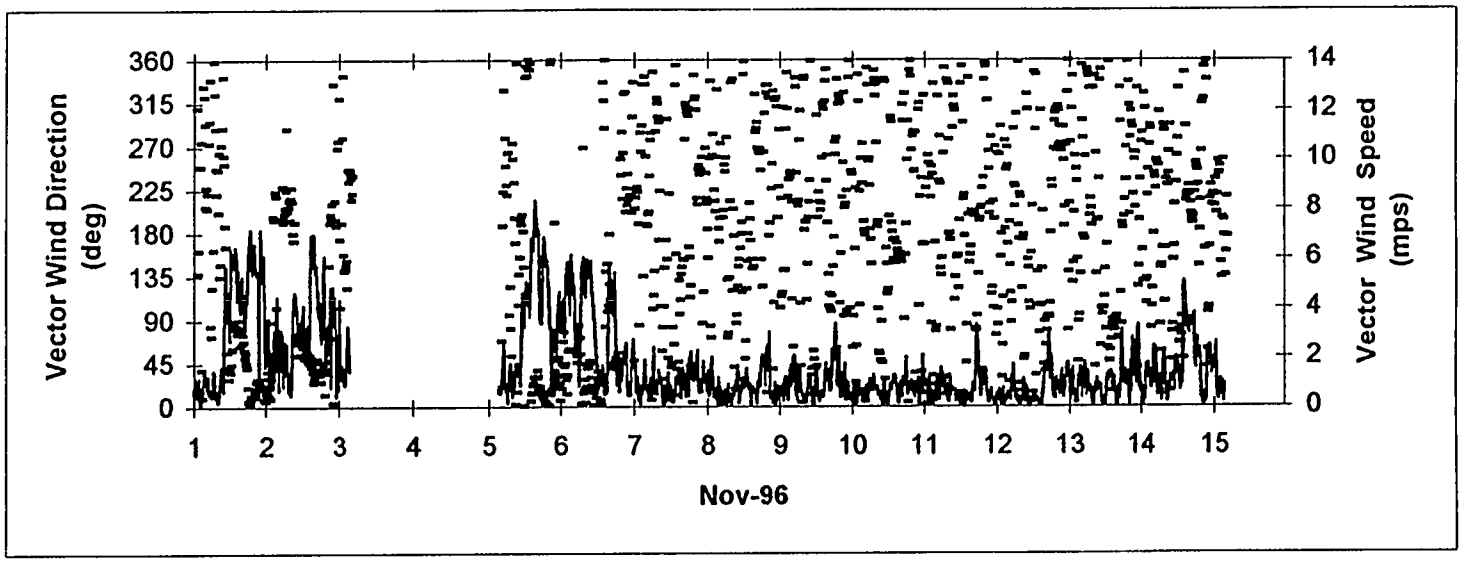

NET RADIATION
wpm2
500
400
300
200
100
0
-100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Nov-96

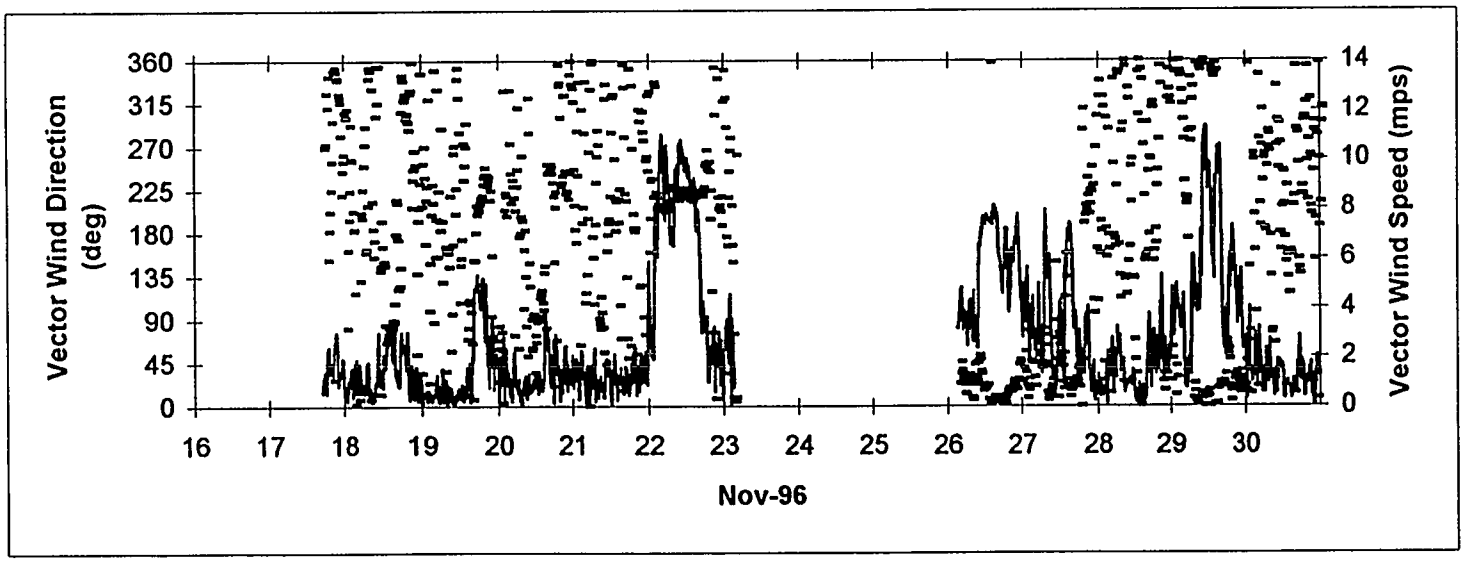
2 METER


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-96
Vector Wind Speed (mps)
14
12
10
8
6
4
2
0

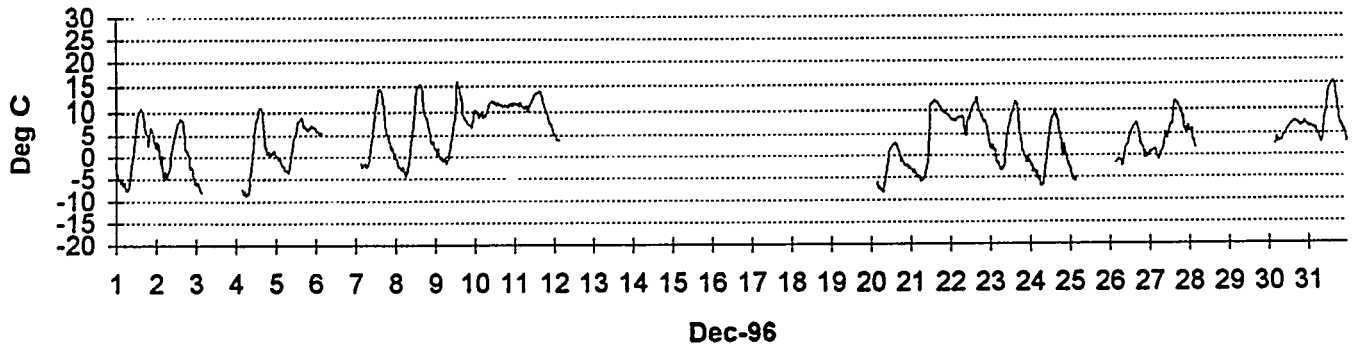

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Nov-96
Vector Wind Speed (mps)
14
12
10
8
6
4
2
0

8 METER

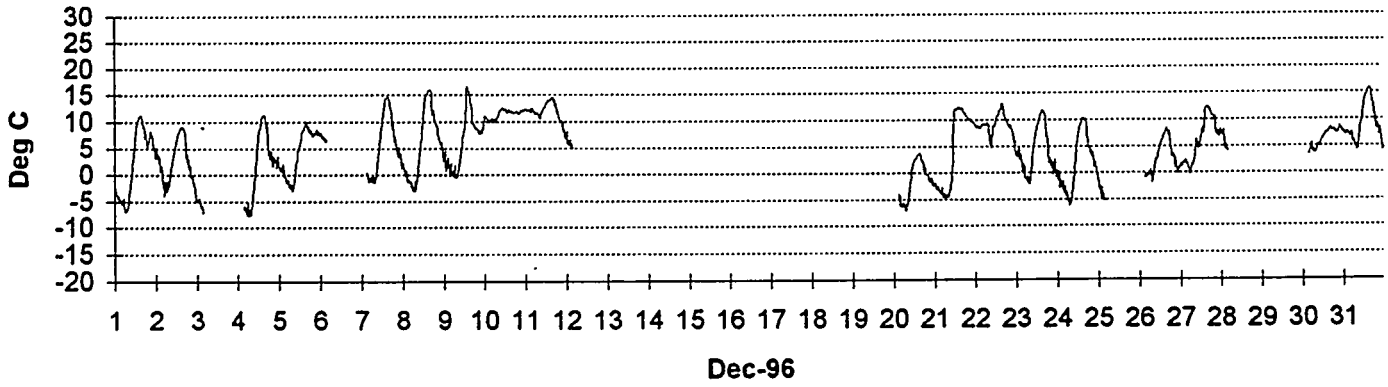

Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
14
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Nov-96


Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
14
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Nov-96

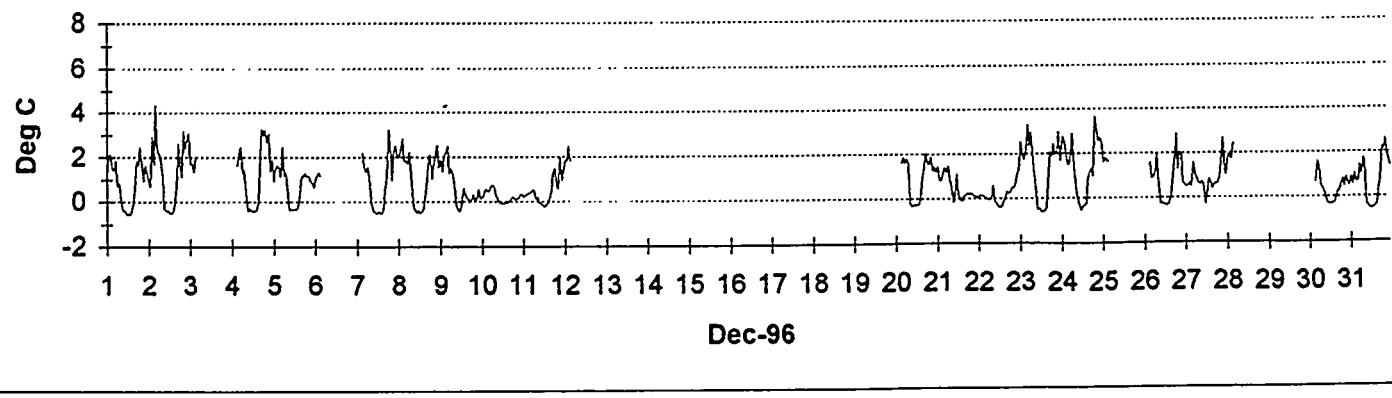
2 METER TEMPERATURE

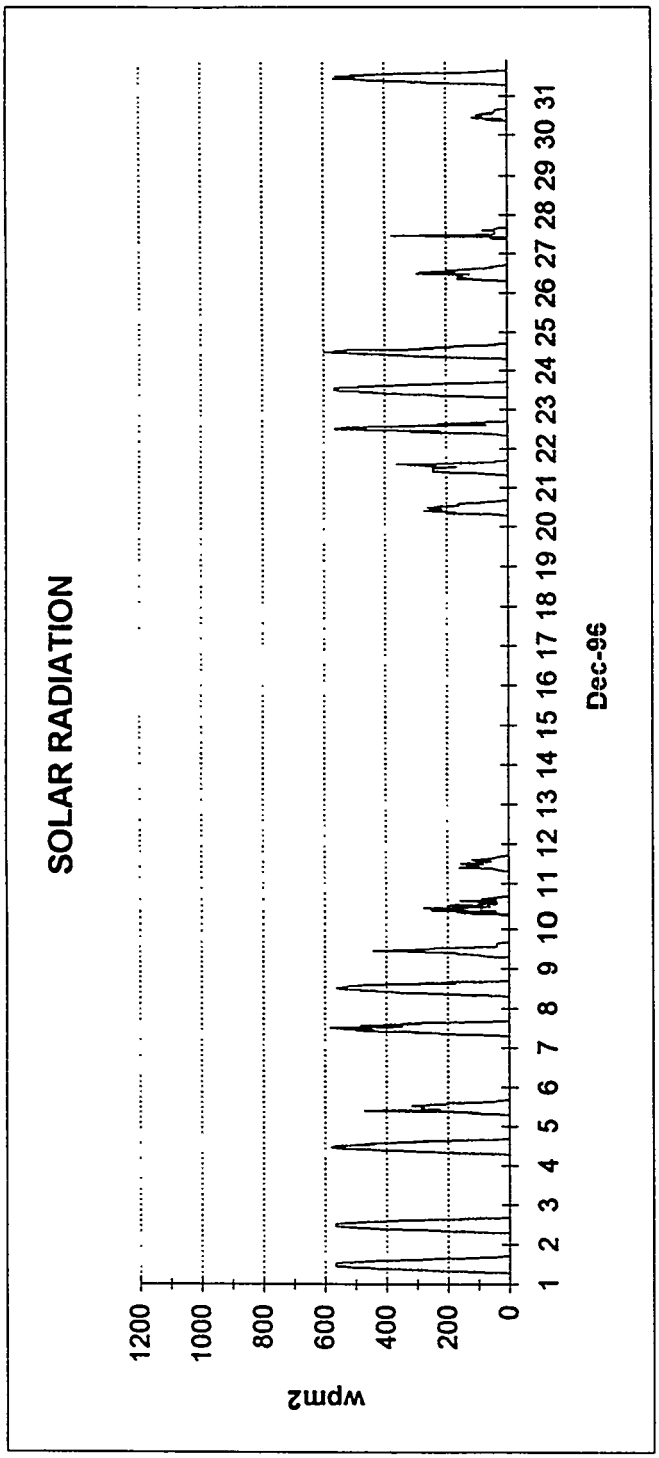


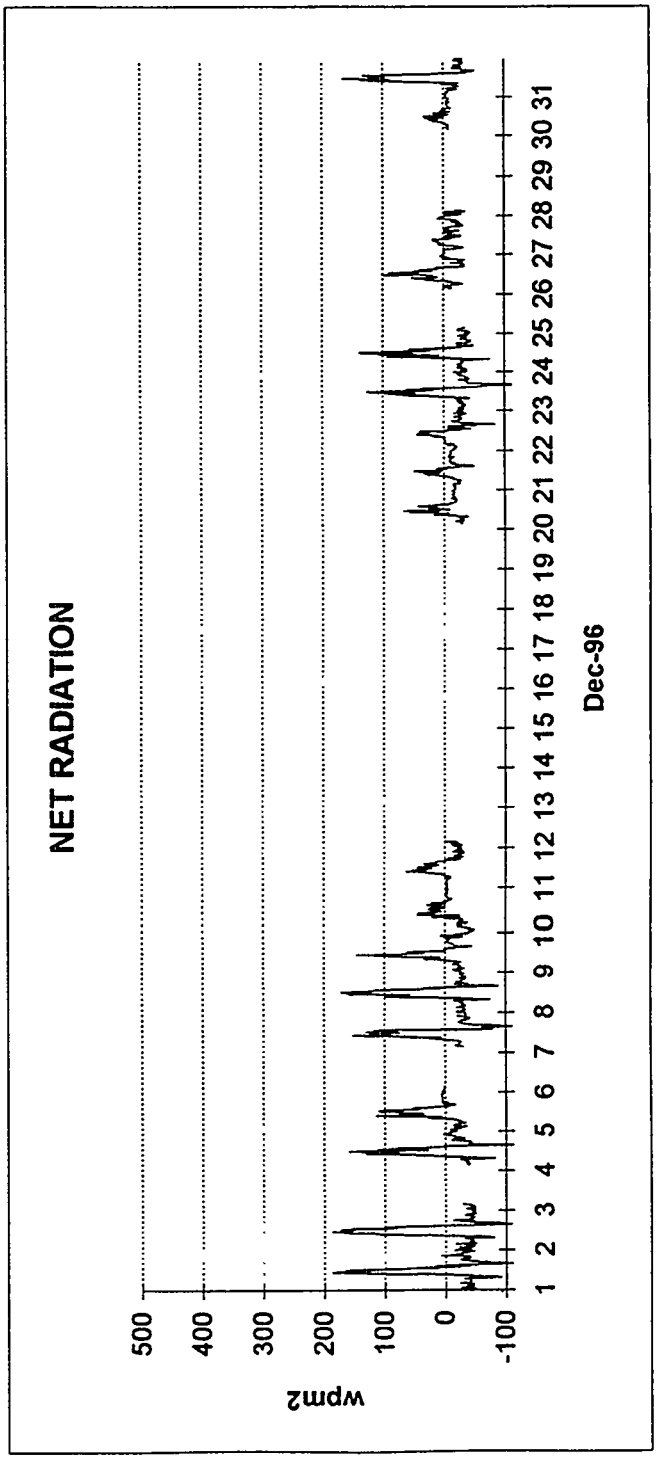
8 METER TEMPERATURE



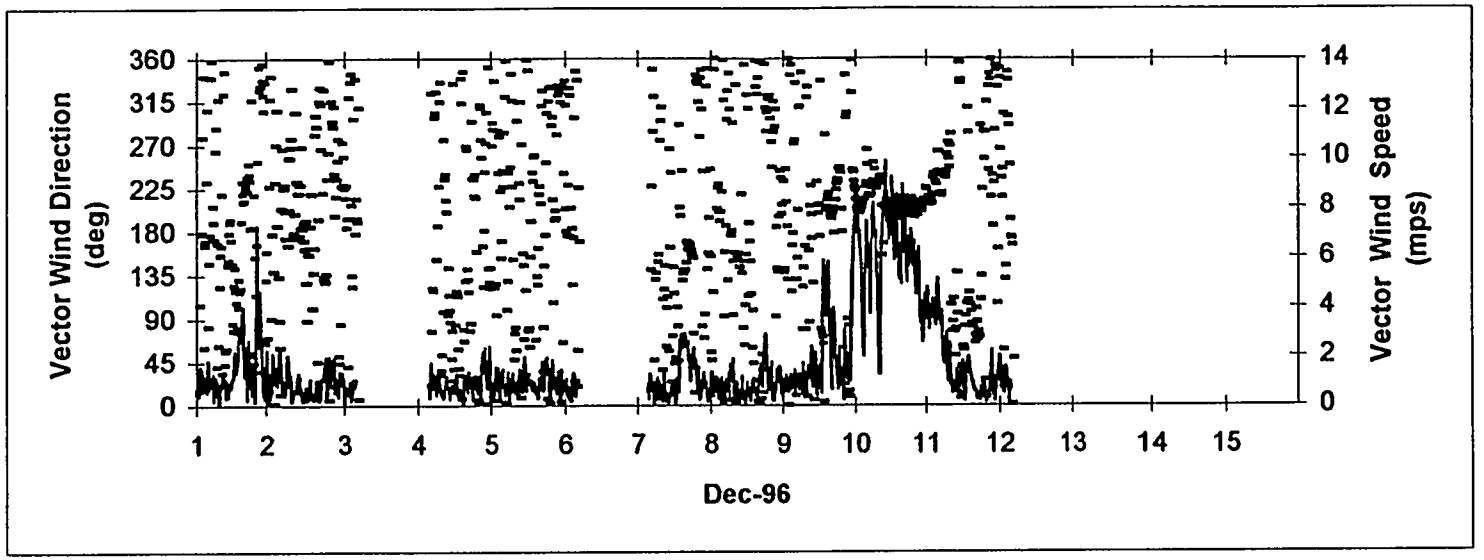
TEMPERATURE DIFFERENCE, 2 TO 16 METER

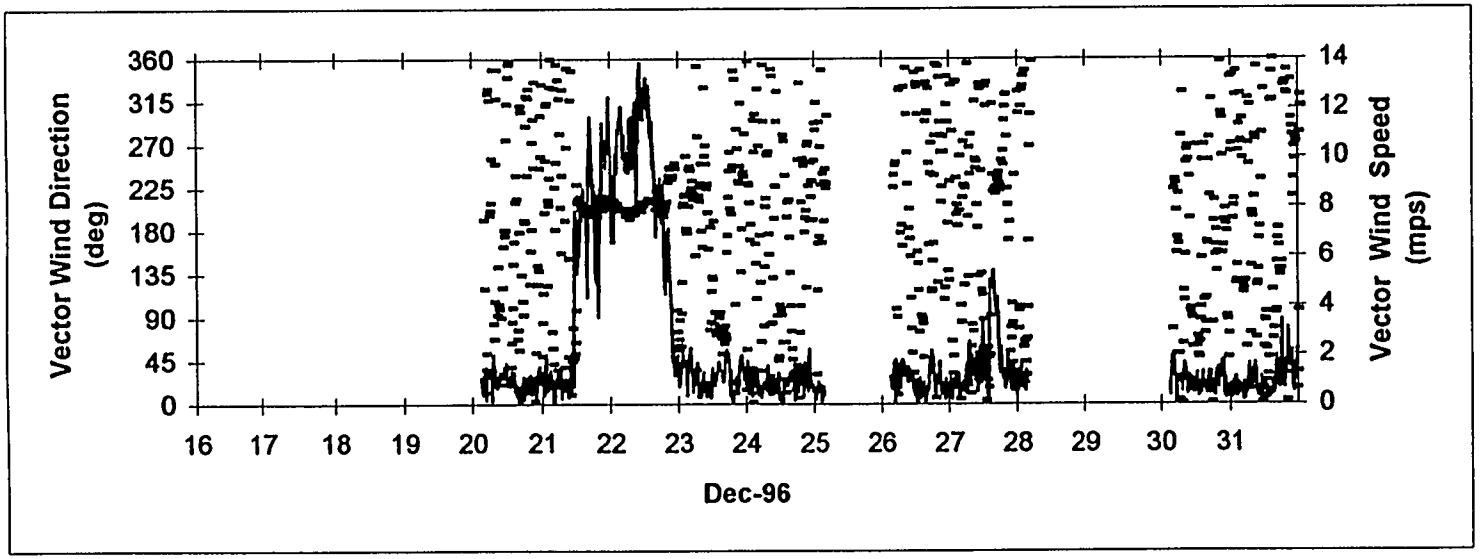



SOLAR RADIATION
wpm2
1200
1000
800
600
400
200
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Dec-96

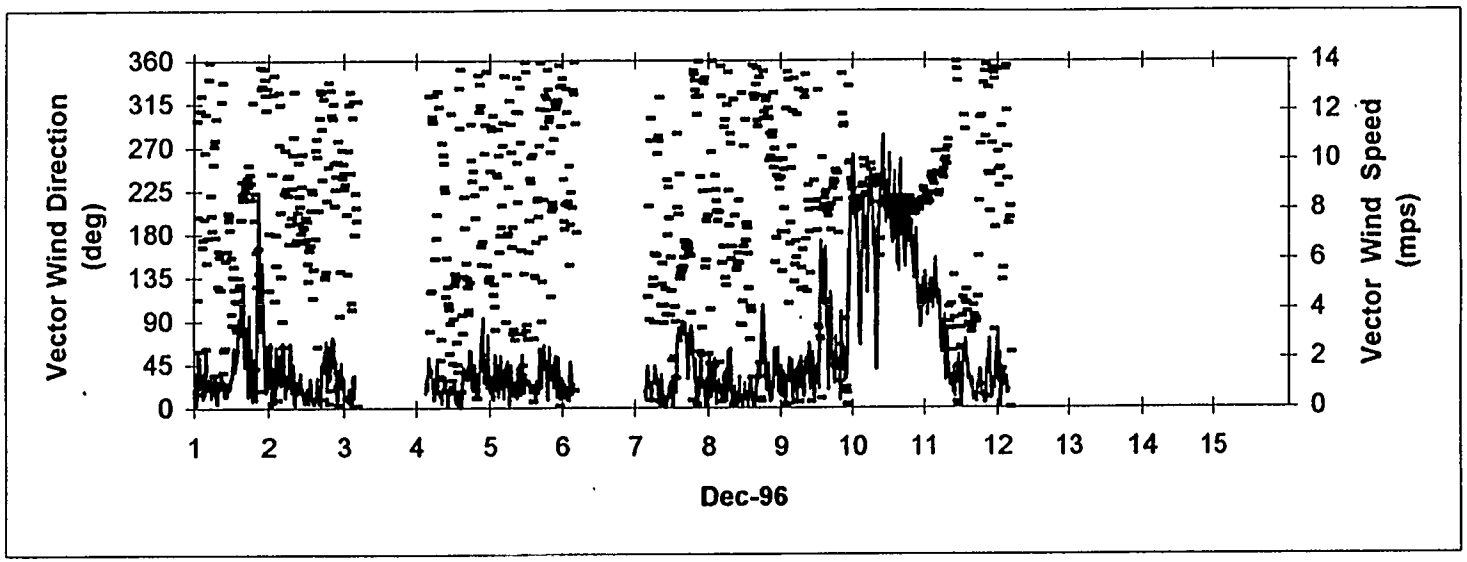

NET RADIATION
wpm2
500
400
300
200
100
0
-100
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Dec-96

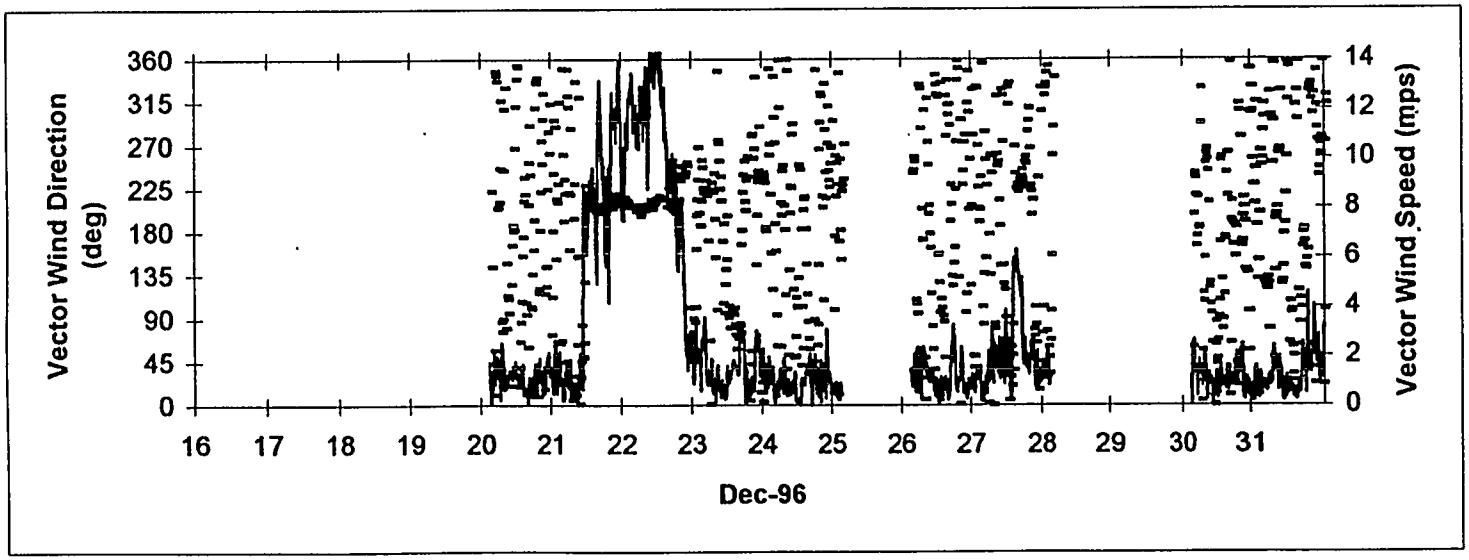
2 METER


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-96
Vector Wind Speed (mps)
14
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-96
Vector Wind Speed (mps)
14
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)
14
12
10
8
6
4
2
0
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
Dec-96


Vector Wind Direction (deg)
360
315
270
225
180
135
90
45
0
Vector Wind Speed (mps)
14
12
10
8
6
4
2
0
16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
Dec-96

APPENDIX B: MONTHLY WIND ROSES, TWO AND EIGHT METERS

Two Meters

1-12	Total Hours (0000-2400), January-December, 1996
13-24	Morning Transition (0600-1000), January-December, 1996
25-36	Late Mid-day (1000-1600), January-December, 1996
37-48	Evening Transition (1600-2000), January-December, 1996
49-60	Night Time (2000-0600), January-December, 1996
61-72	All Stability Class A, January-December, 1996
73-84	All Stability Class B, January-December, 1996
85-96	All Stability Class C, January-December, 1996
97-108	All Stability Class D, January-December, 1996
109-120	All Stability Class E, January-December, 1996
121-132	All Stability Class F, January-December, 1996

Eight Meters

133-144	Total Hours (0000-2400),
145-156	Morning Transition (0600-1000), January-December, 1996
157-168	Late Mid-day (1000-1600), January-December, 1996
169-180	Evening Transition (1600-2000), January-December, 1996
181-192	Night Time (2000-0600), January-December, 1996
193-204	All Stability Class A, January-December, 1996
205-216	All Stability Class B, January-December, 1996
217-228	All Stability Class C, January-December, 1996

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

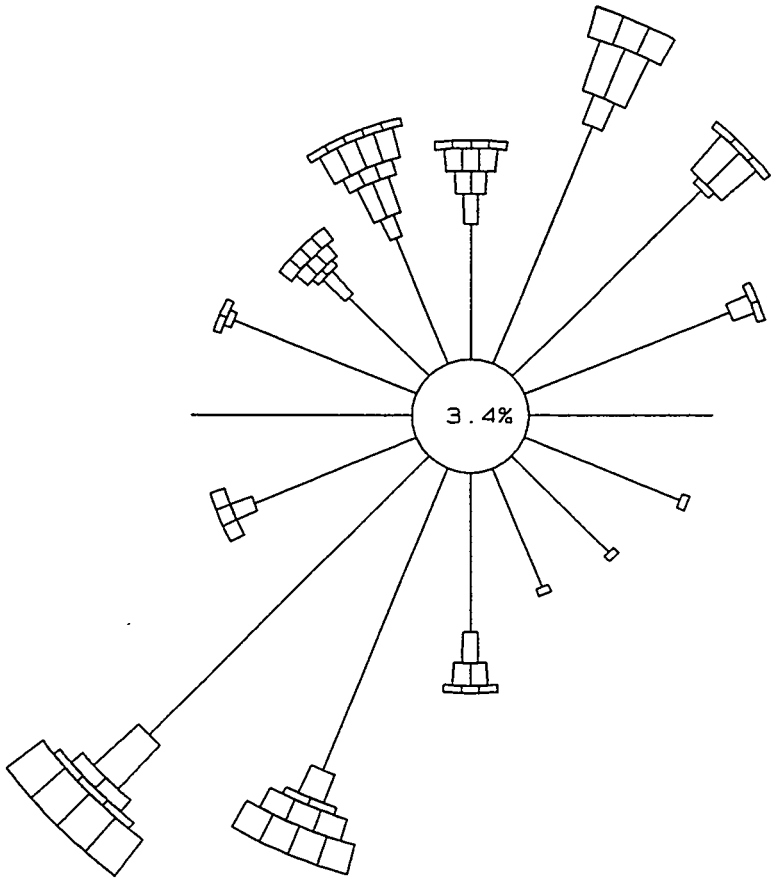
229-240 All Stability Class D, January-December, 1996

241-252 All Stability Class E, January-December, 1996

253-264 All Stability Class F, January-December, 1996

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
1/ 1/1996 - 1/31/1996
0 - 2400



WIND SPEED CLASSES (MPS)

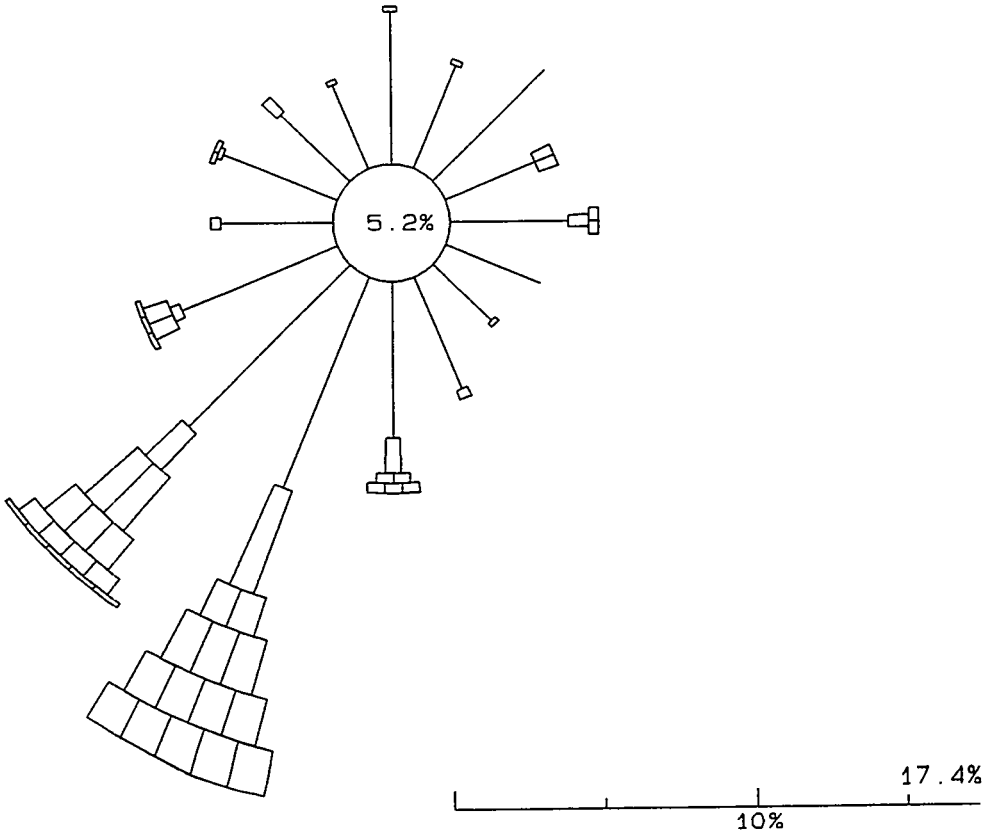
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

74.2% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
2/ 1/1996 - 2/29/1996
0 - 2400

N



WIND SPEED CLASSES (MPS)

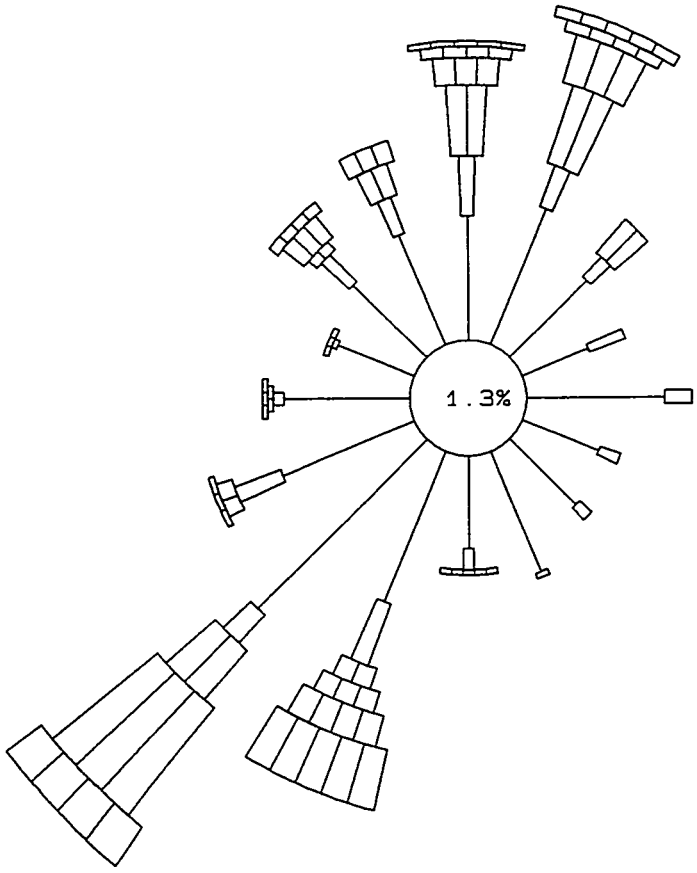
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

84.9% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
3/ 1/1996 - 3/31/1996
0 - 2400

N



15.6%
10%

WIND SPEED CLASSES (MPS)

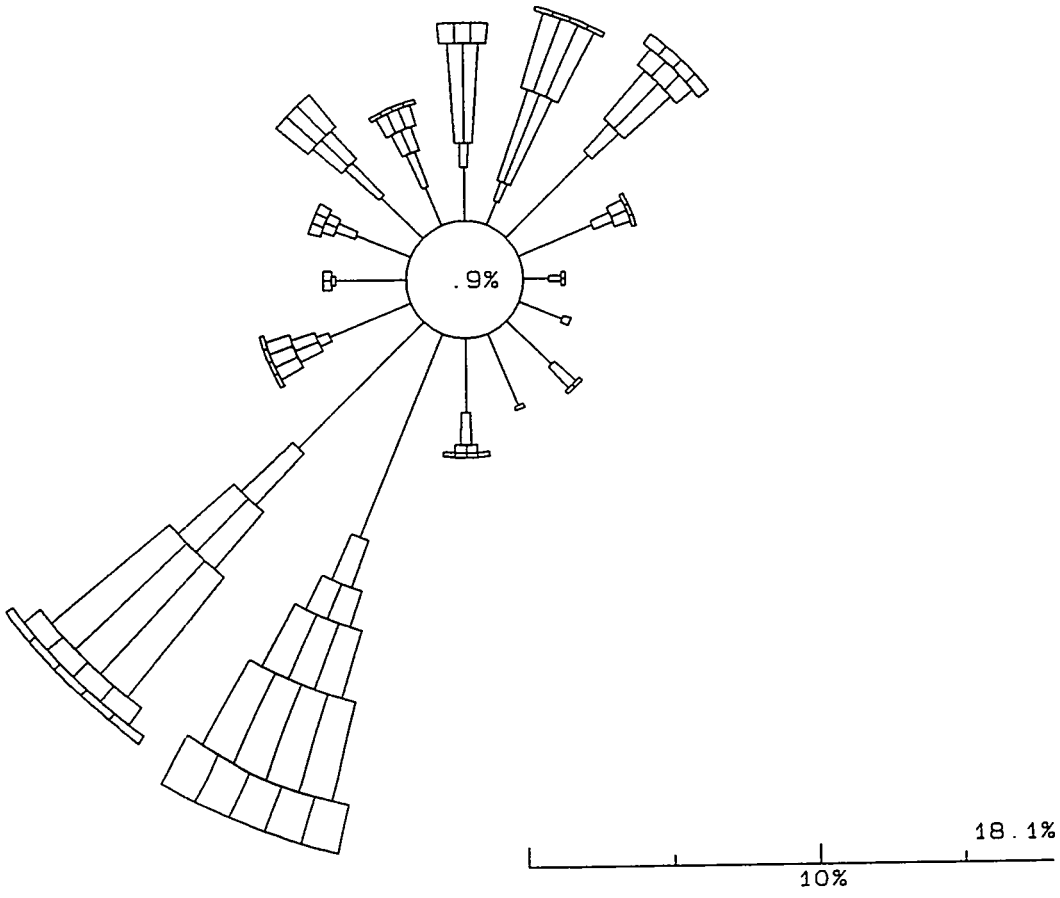
CALM	o	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

82.7% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
4/ 1/1996 - 4/30/1996
0 - 2400

N



WIND SPEED CLASSES (MPS)

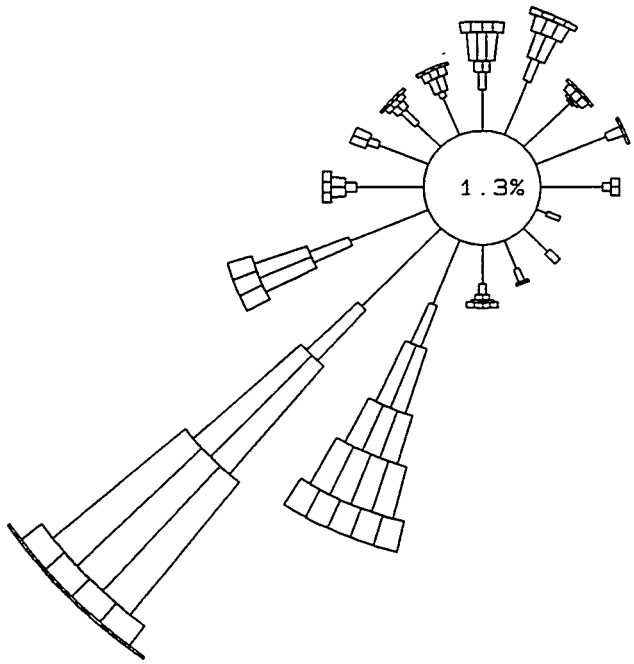
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.8% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
5/ 1/1996 - 5/31/1996
0 - 2400

N



25.1%
10%
20%

WIND SPEED CLASSES (MPS)

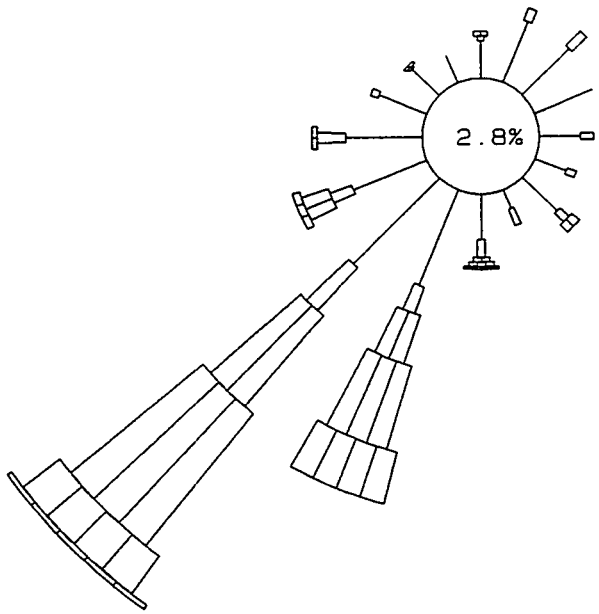
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

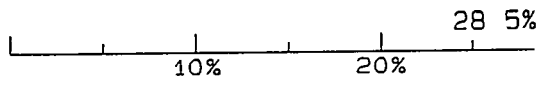
100.0% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
6/ 1/1996 - 6/30/1996
0 - 2400

N





WIND SPEED CLASSES (MPS)

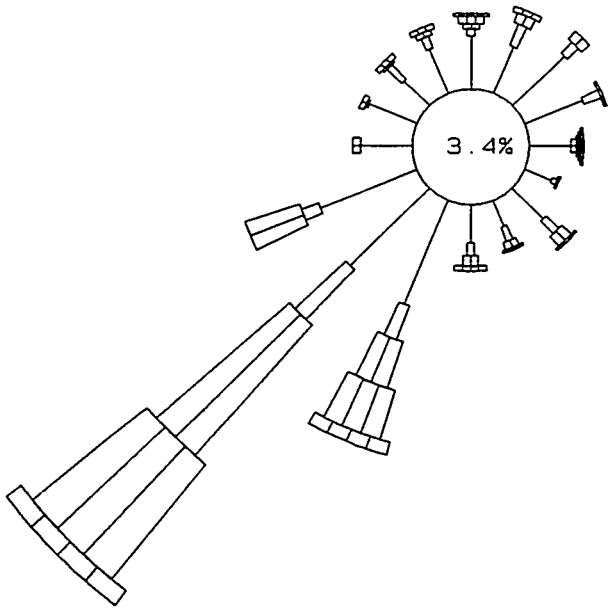
CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

100.0% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
7/ 1/1996 - 7/31/1996
0 - 2400

N



27.2%
10%
20%

WIND SPEED CLASSES (MPS)

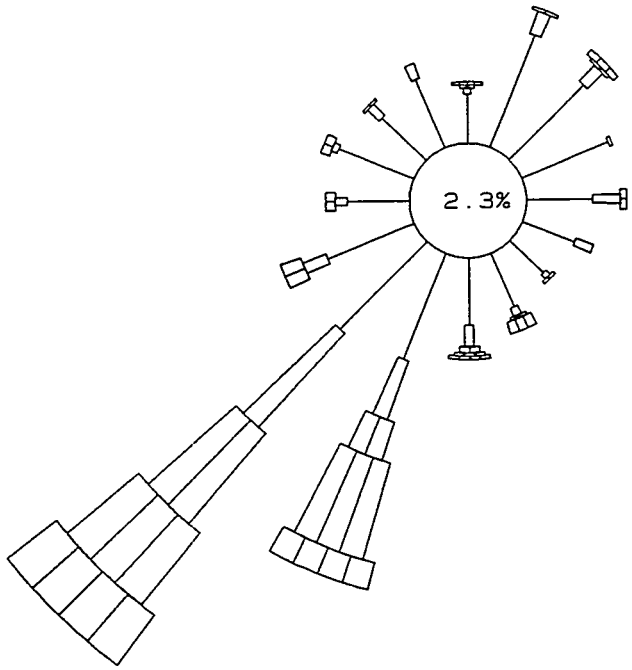
CALM	0	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

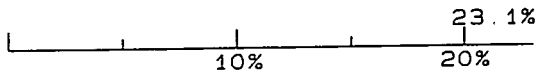
100.0% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
8/ 1/1996 - 8/31/1996
0 - 2400

N





WIND SPEED CLASSES (MPS)

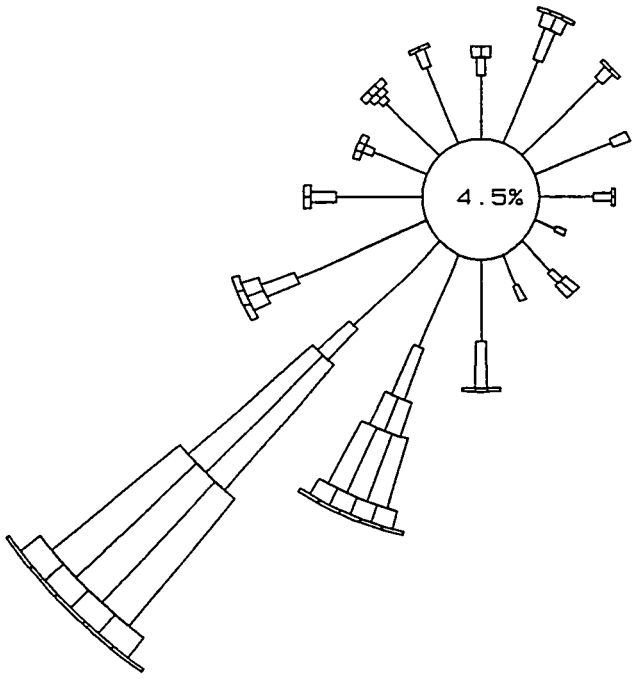
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

98.4% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
9/ 1/1996 - 9/30/1996
0 - 2400

N



22.4%
10%
20%

WIND SPEED CLASSES (MPS)

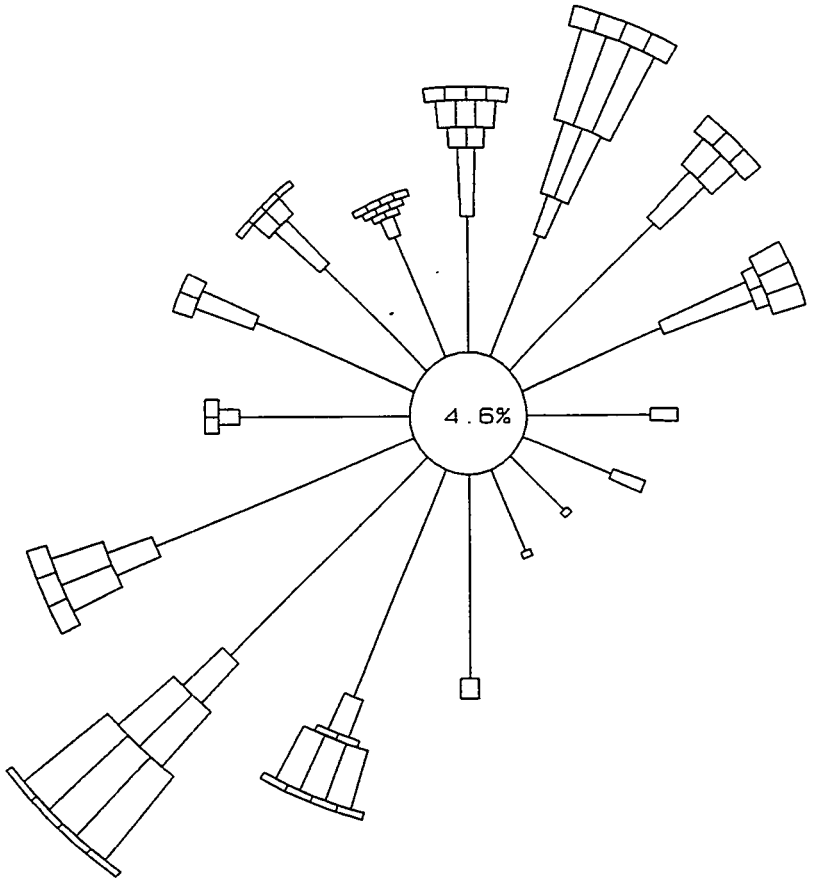
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

90.4% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
10/ 1/1996 - 10/31/1996
0 - 2400

N



12.3%
10%

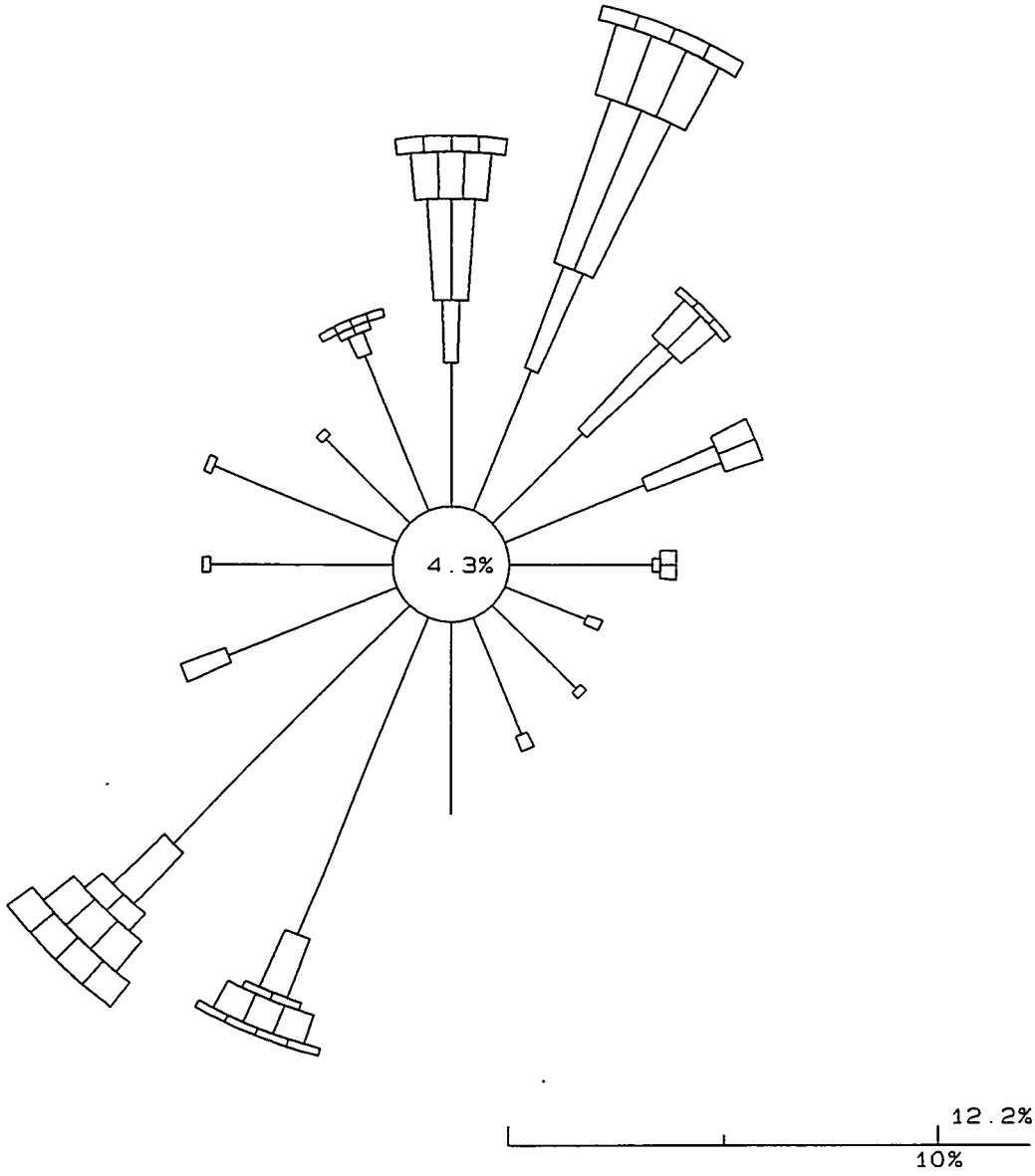
WIND SPEED CLASSES (MPS)

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

84.1% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
11/ 1/1996 - 11/30/1996
0 - 2400



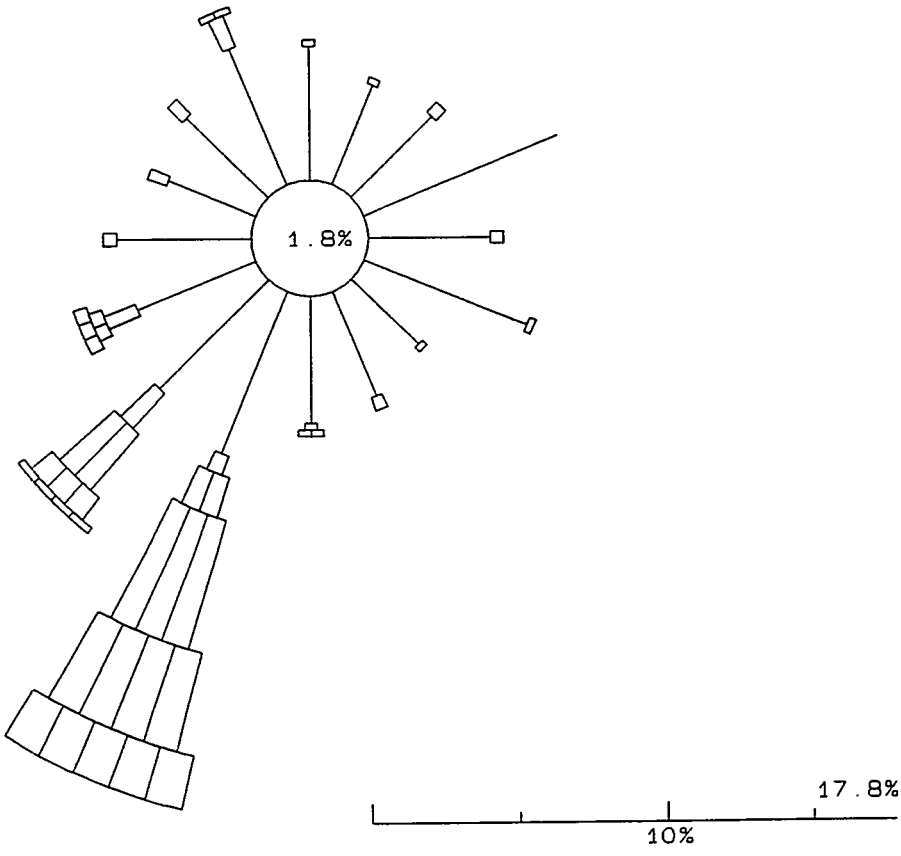
WIND SPEED CLASSES (MPS)

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

75.1% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours
12/ 1/1996 - 12/31/1996
0 - 2400



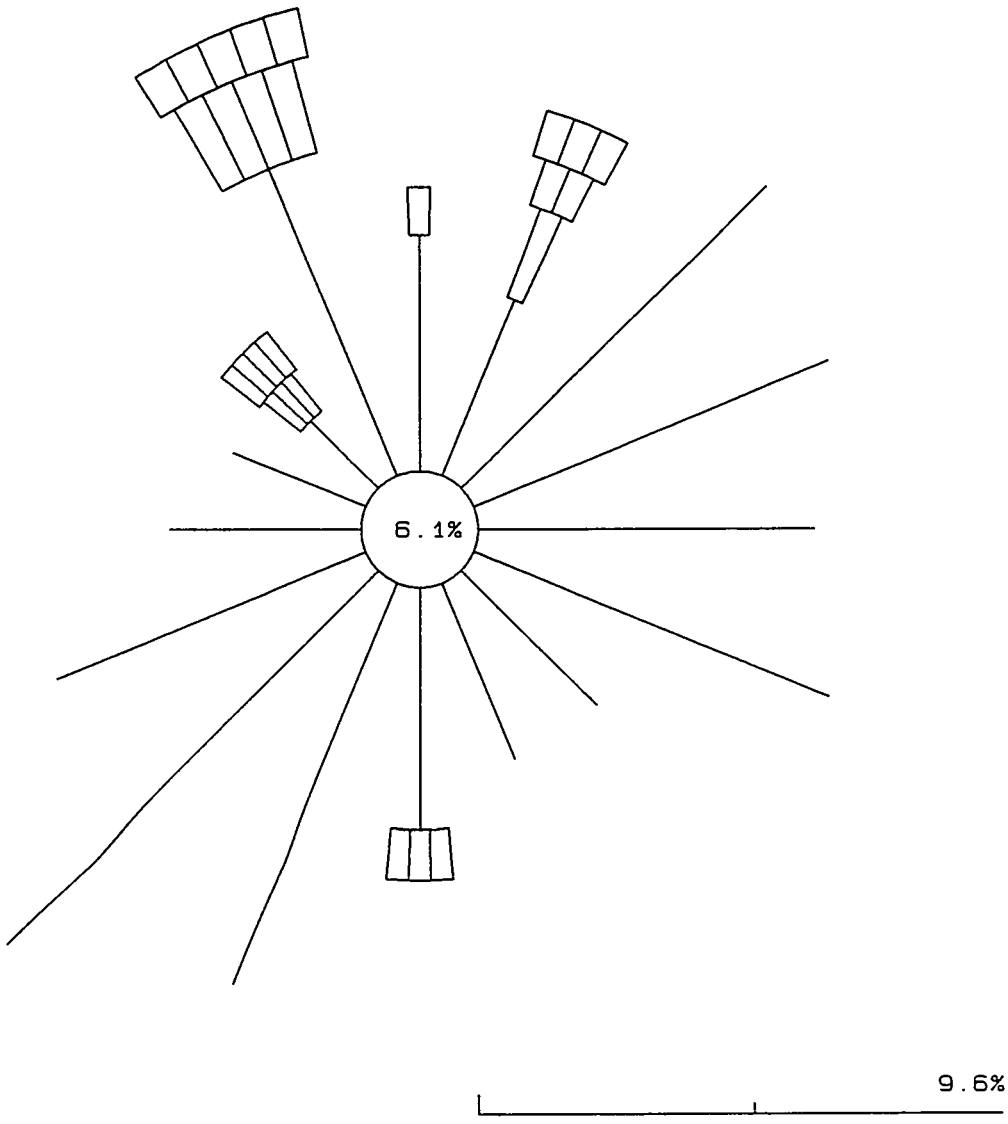
WIND SPEED CLASSES (MPS)

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

58.7% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
1/ 1/1996 - 1/31/1996
600 - 1000



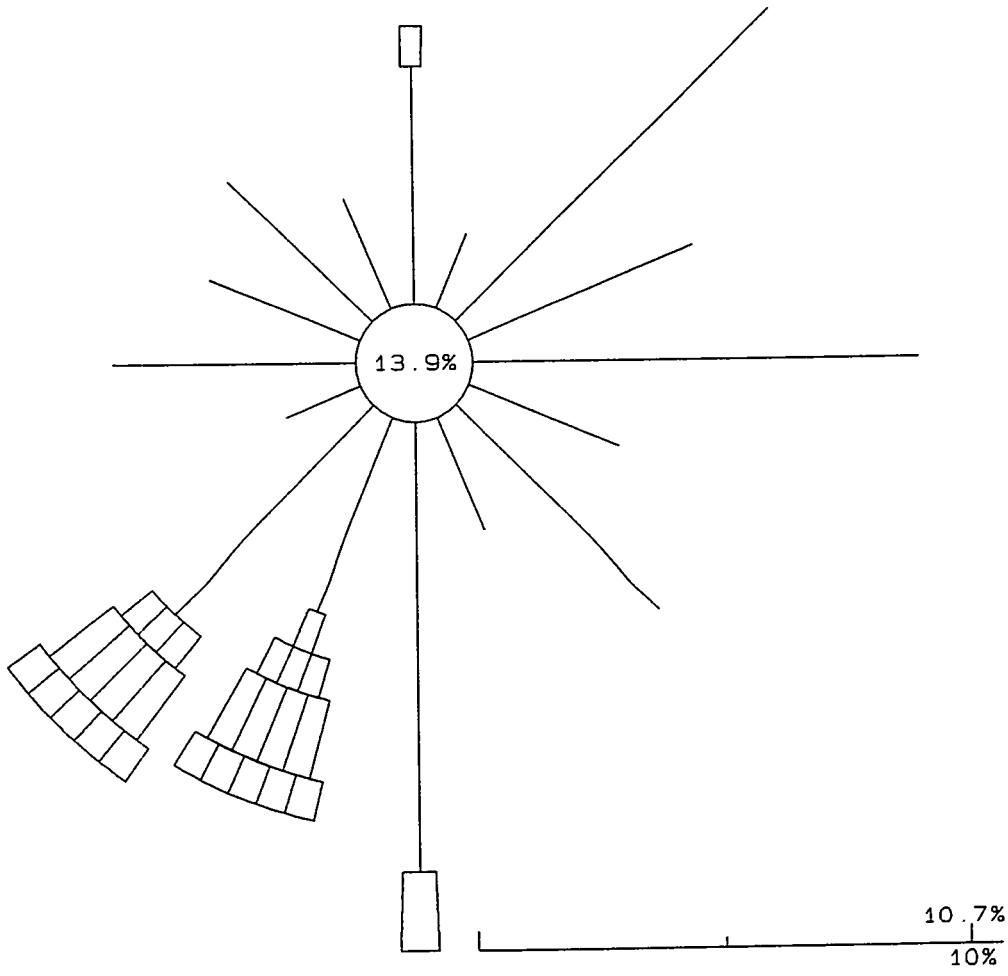
WIND SPEED CLASSES (MPS)

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

74.2% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
2/ 1/1996 - 2/29/1996
600 - 1000



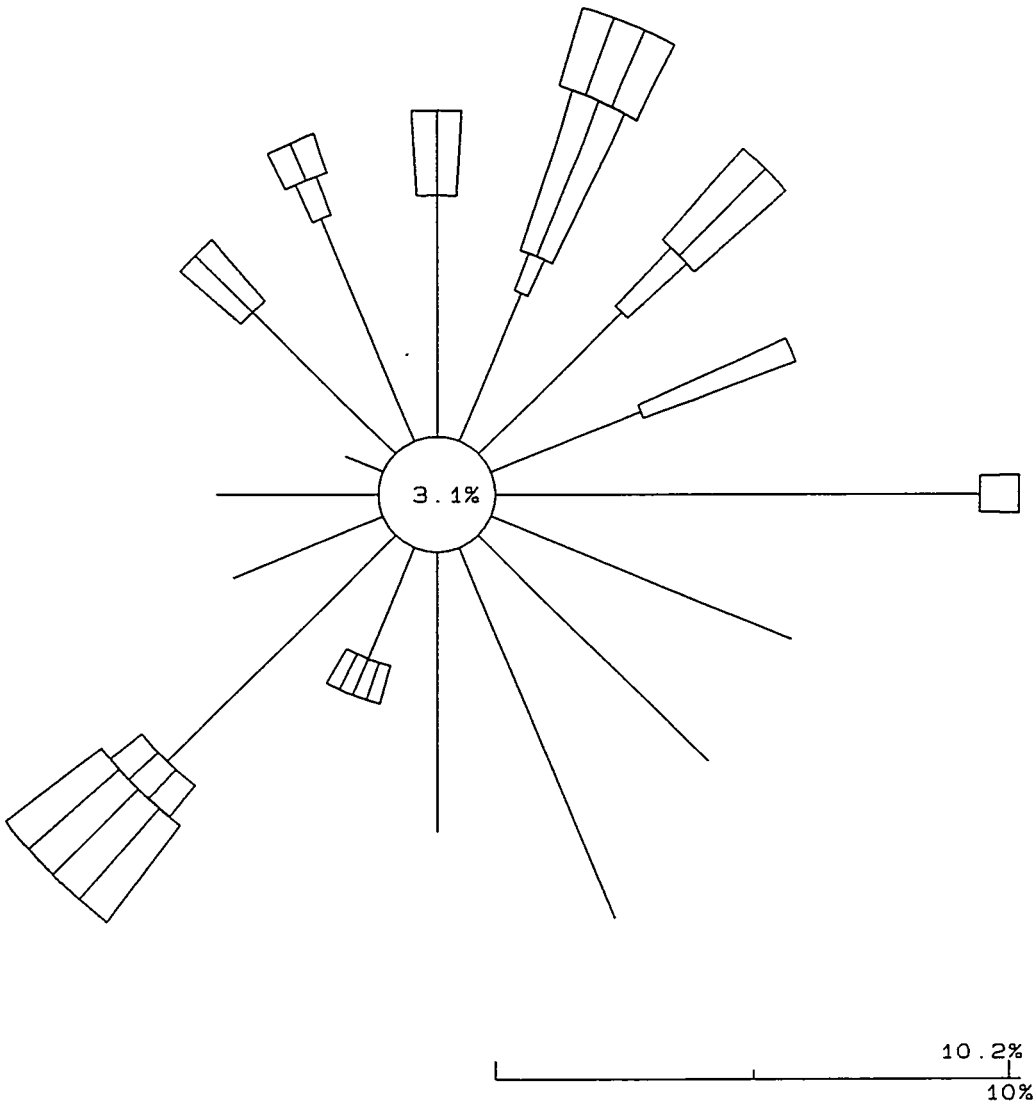
WIND SPEED CLASSES (MPS)

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

84.9% DATA RECOVERED
OF WHICH 20.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
3/ 1/1996 - 3/31/1996
600 - 1000



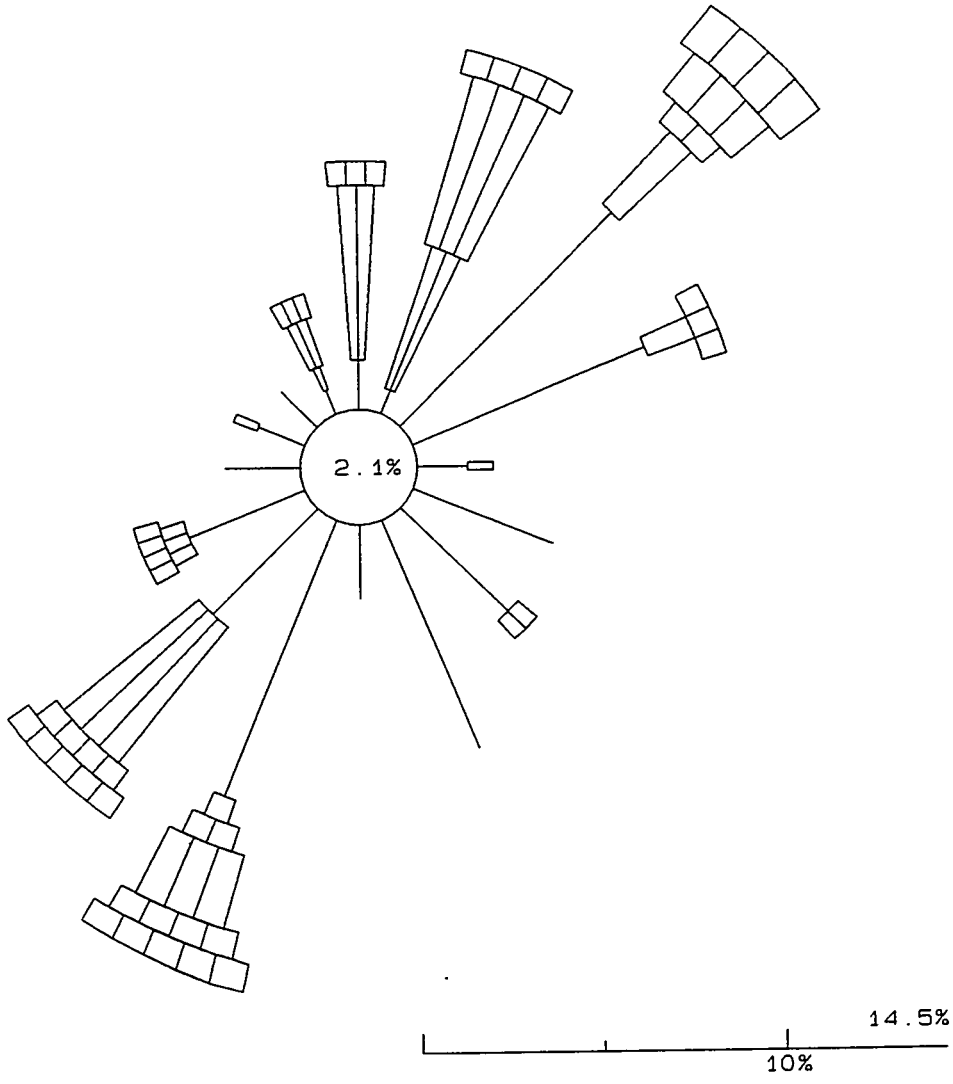
WIND SPEED CLASSES (MPS)

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

82.7% DATA RECOVERED
OF WHICH 20.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
4/ 1/1996 - 4/30/1996
600 - 1000



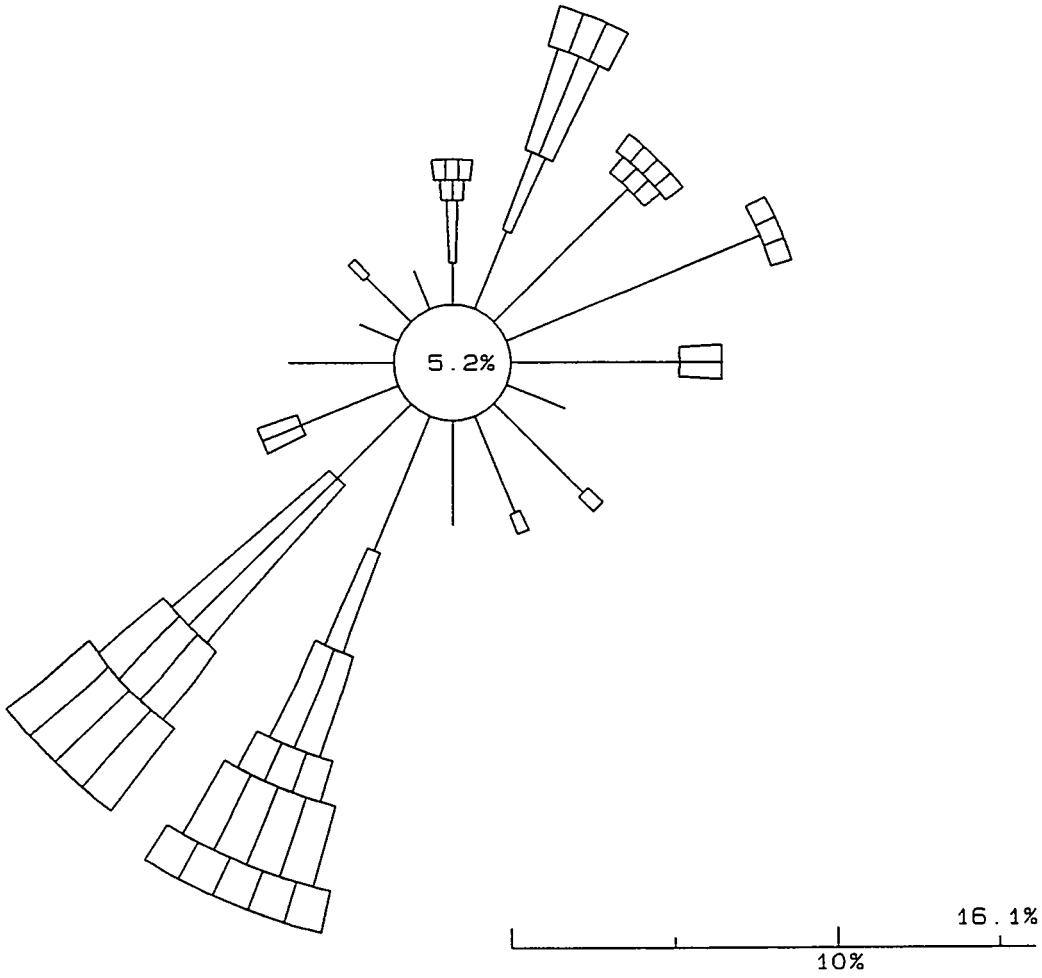
WIND SPEED CLASSES (MPS)

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

96.8% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
5/ 1/1996 - 5/31/1996
600 - 1000



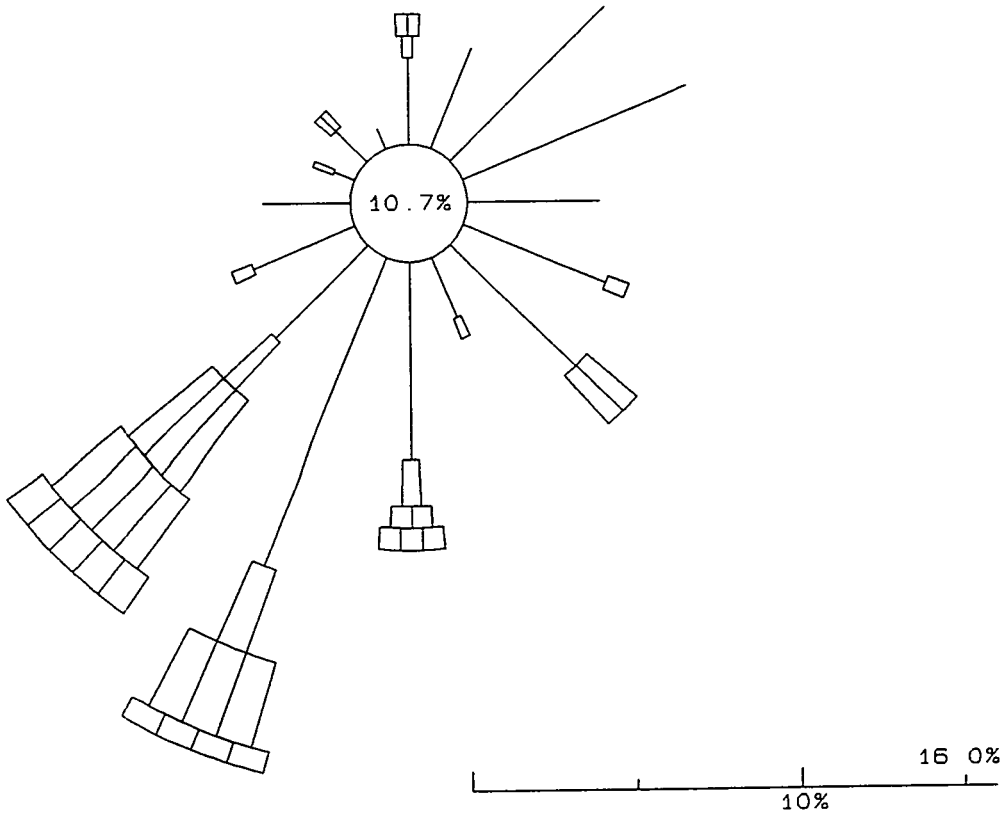
WIND SPEED CLASSES (MPS)

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
6/ 1/1996 - 6/30/1996
600 - 1000



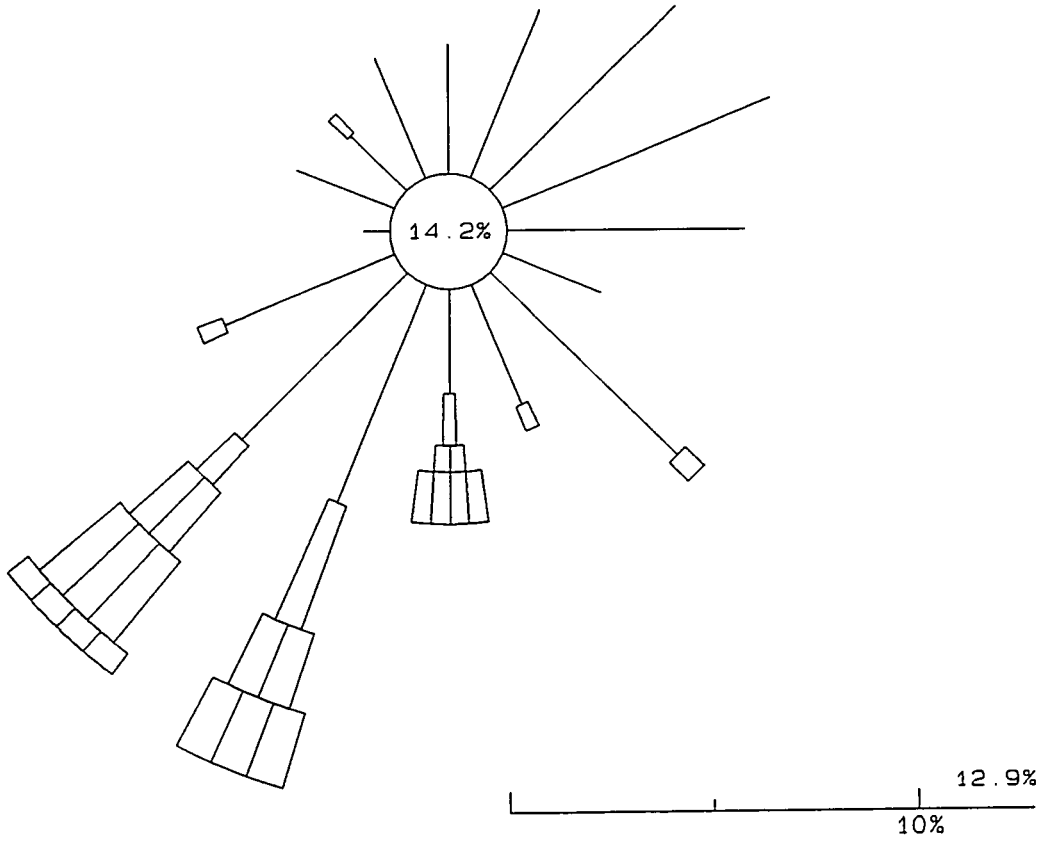
WIND SPEED CLASSES (MPS)

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 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
7/ 1/1996 - 7/31/1996
600 - 1000



WIND SPEED CLASSES (MPS)

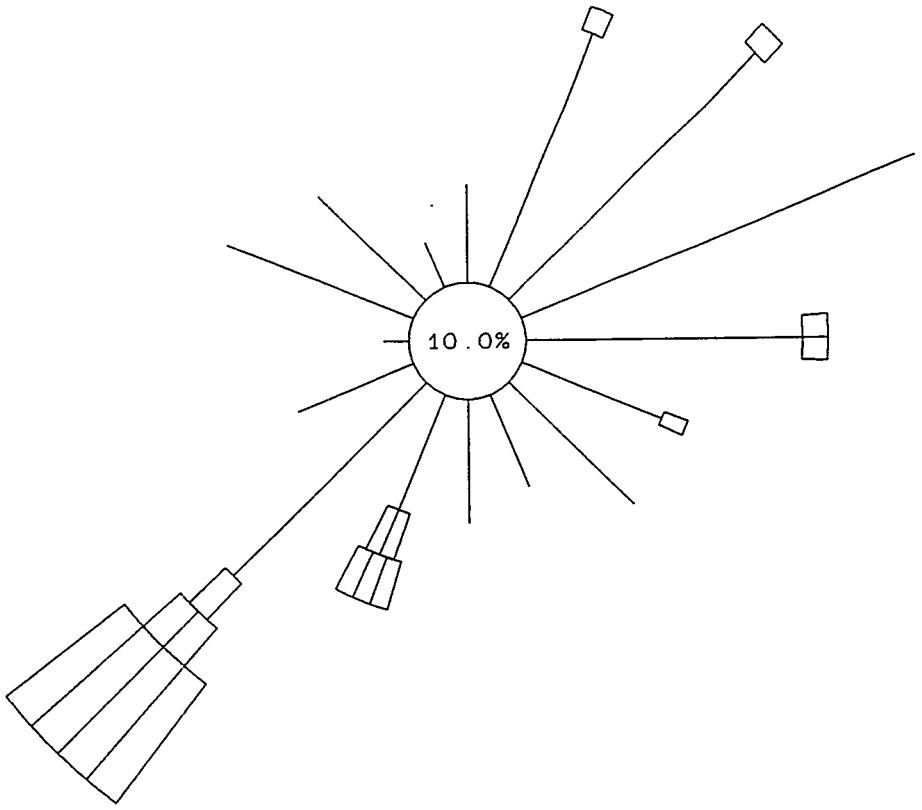
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3 3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
8/ 1/1996 - 8/31/1996
600 - 1000

N



14.0%
10%

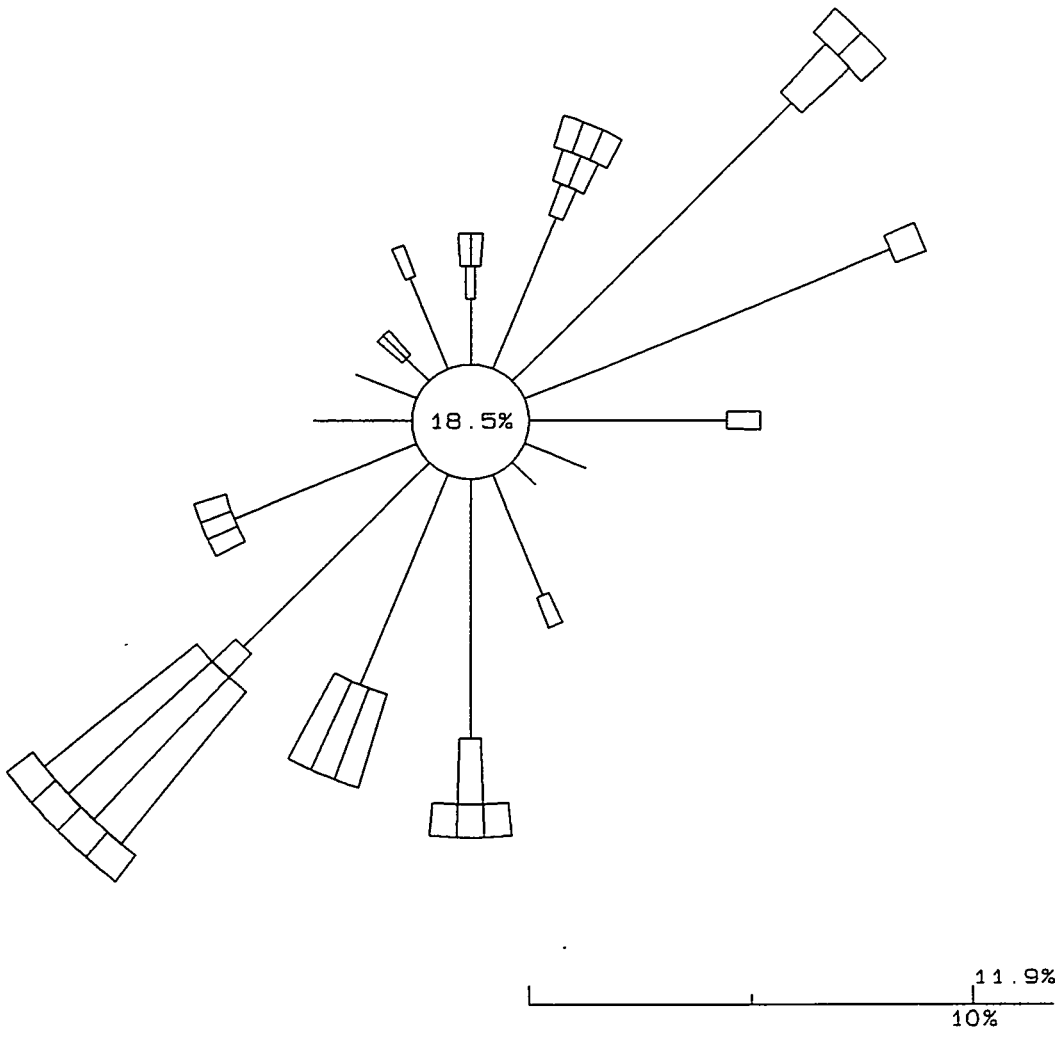
WIND SPEED CLASSES (MPS)

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

98.4% DATA RECOVERED
OF WHICH 20.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
9/ 1/1996 - 9/30/1996
600 - 1000



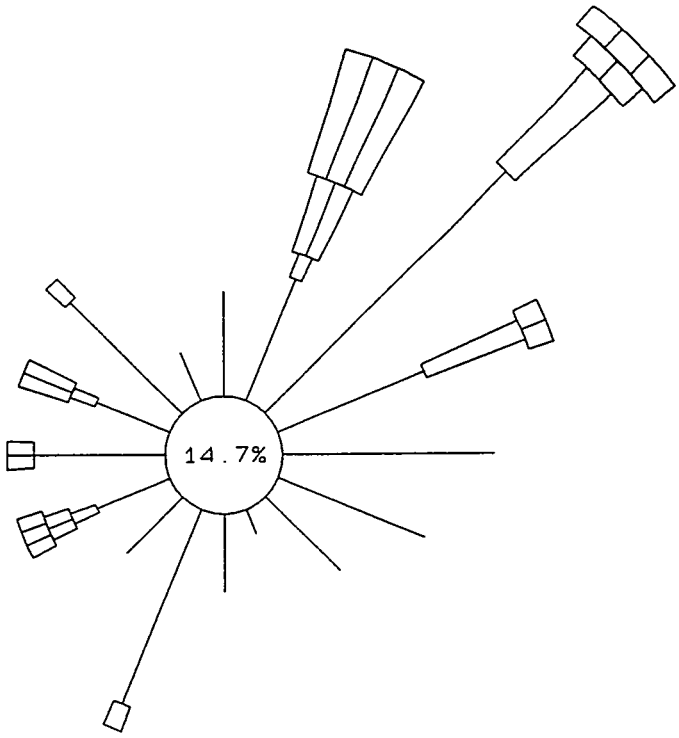
WIND SPEED CLASSES (MPS)

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

90.4% DATA RECOVERED
OF WHICH 20.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
10/ 1/1996 - 10/31/1996
600 - 1000



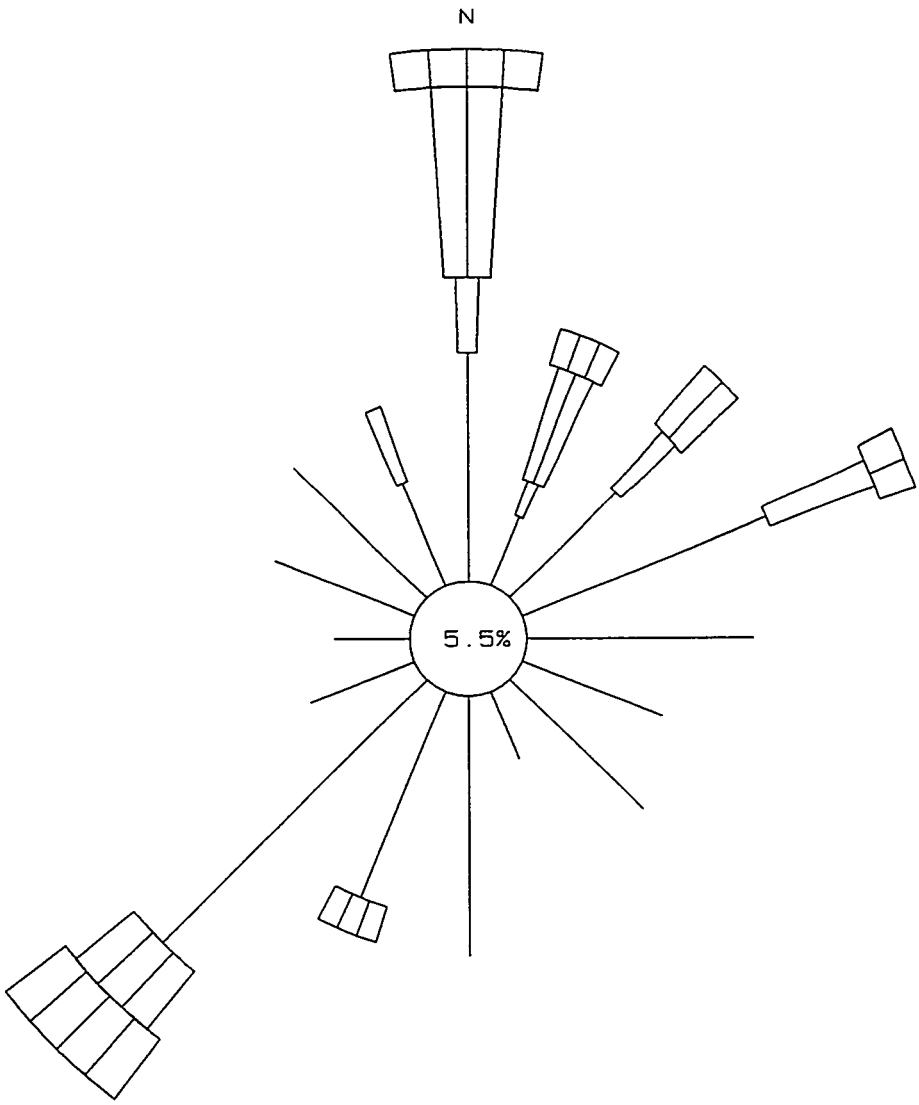
WIND SPEED CLASSES (MPS)

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

84.1% DATA RECOVERED
OF WHICH 20.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
11/ 1/1996 - 11/30/1996
600 - 1000



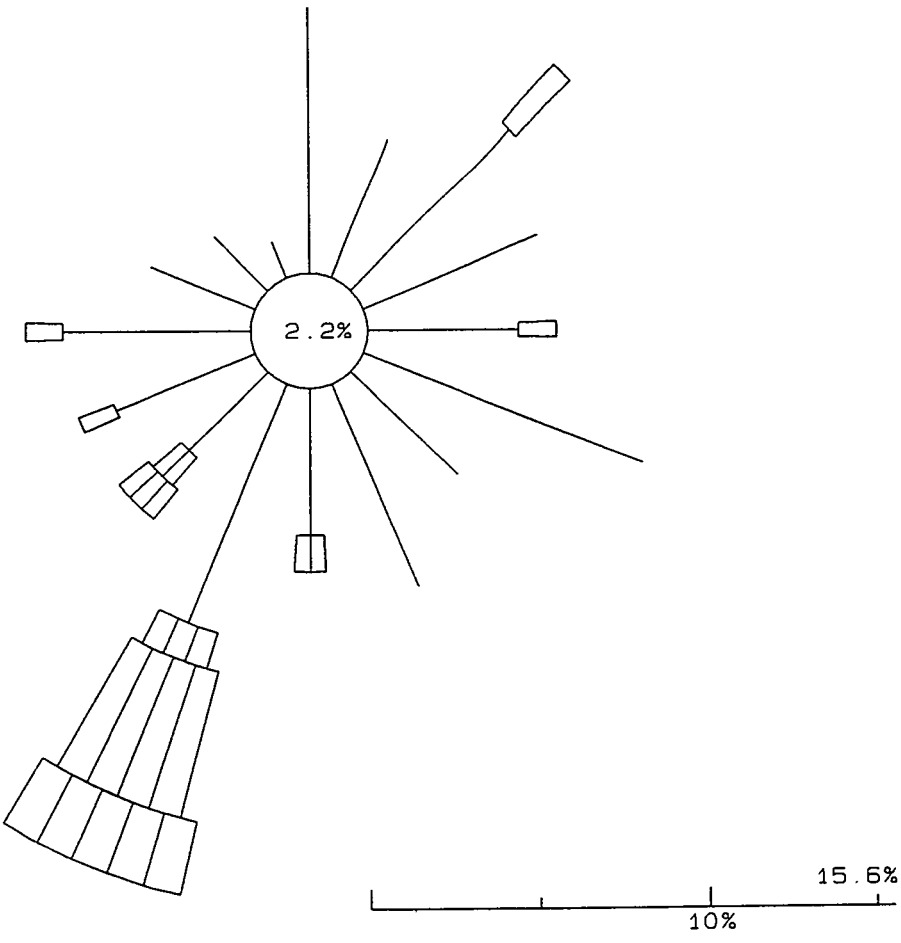
WIND SPEED CLASSES (MPS)

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

75.1% DATA RECOVERED
OF WHICH 20.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Morning Transition
12/ 1/1996 - 12/31/1996
600 - 1000



WIND SPEED CLASSES (MPS)

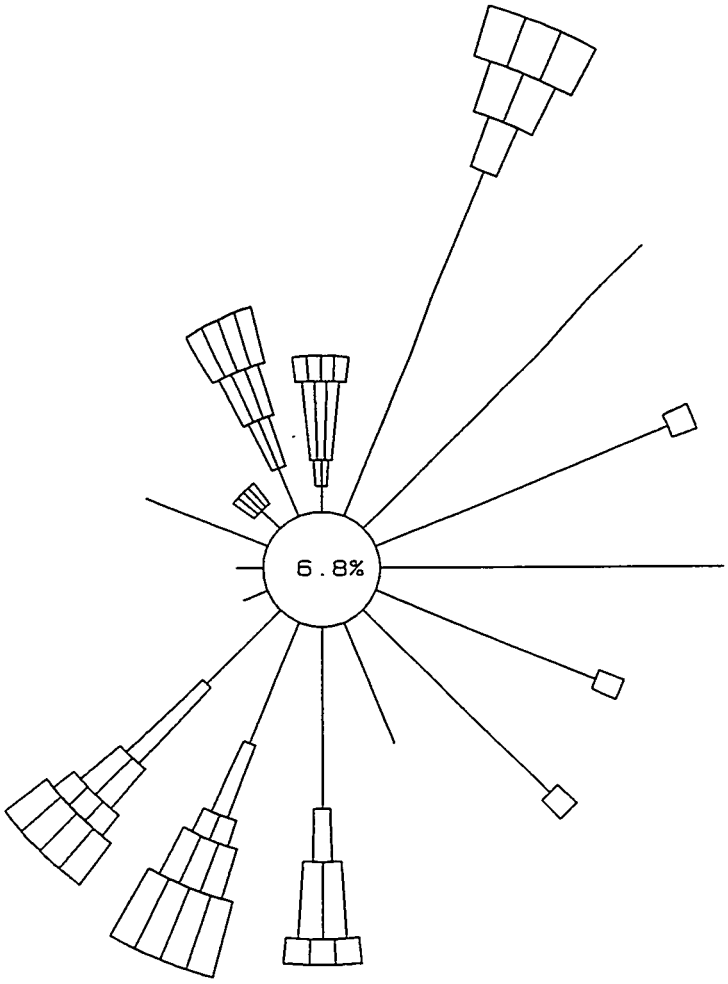
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

58.7% DATA RECOVERED
OF WHICH 20.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
1/ 1/1996 - 1/31/1996
1000 - 1600

N



12.4%
10%

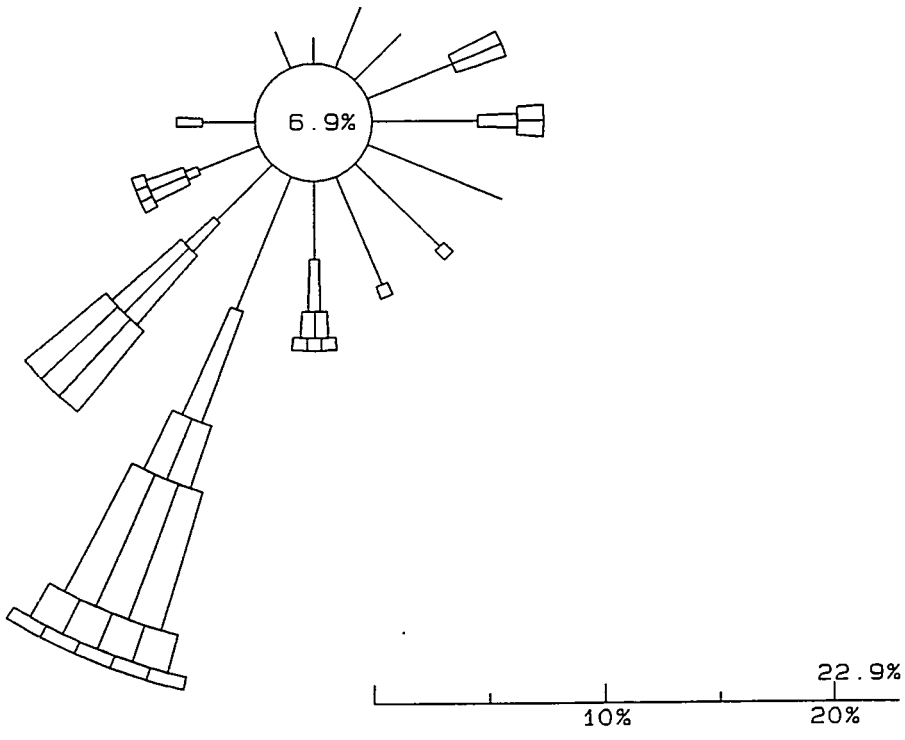
WIND SPEED CLASSES (MPS)

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

74.2% DATA RECOVERED
OF WHICH 29.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
2/ 1/1996 - 2/29/1996
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

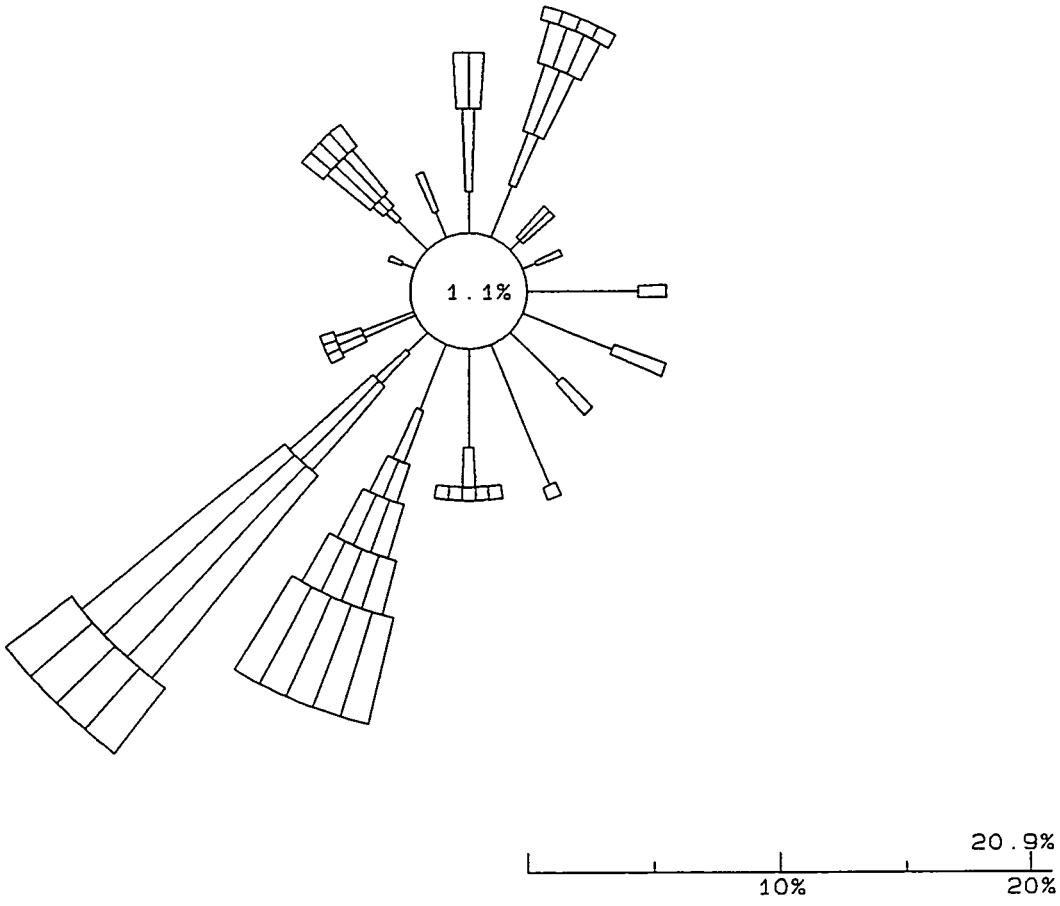
84.9% DATA RECOVERED
OF WHICH 29.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day

3/ 1/1996 - 3/31/1996

1000 - 1600



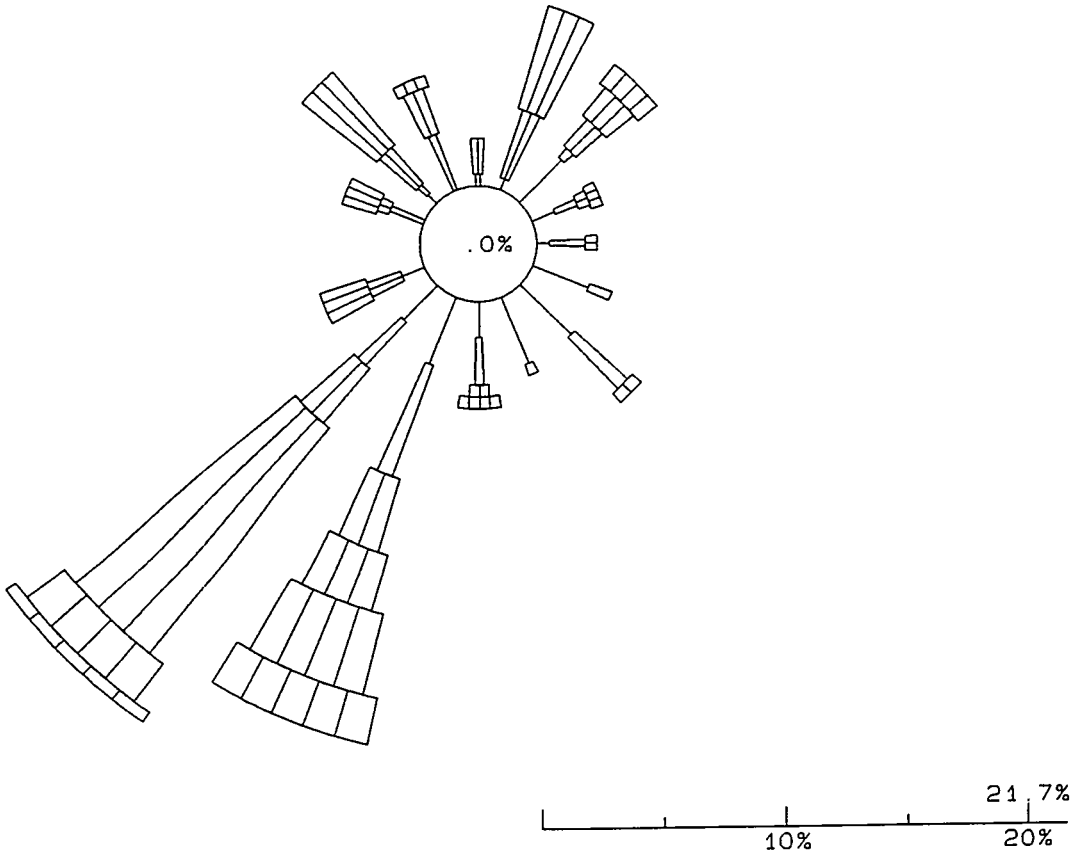
WIND SPEED CLASSES (MPS)

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

82.7% DATA RECOVERED
OF WHICH 29.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
4/ 1/1996 - 4/30/1996
1000 - 1600



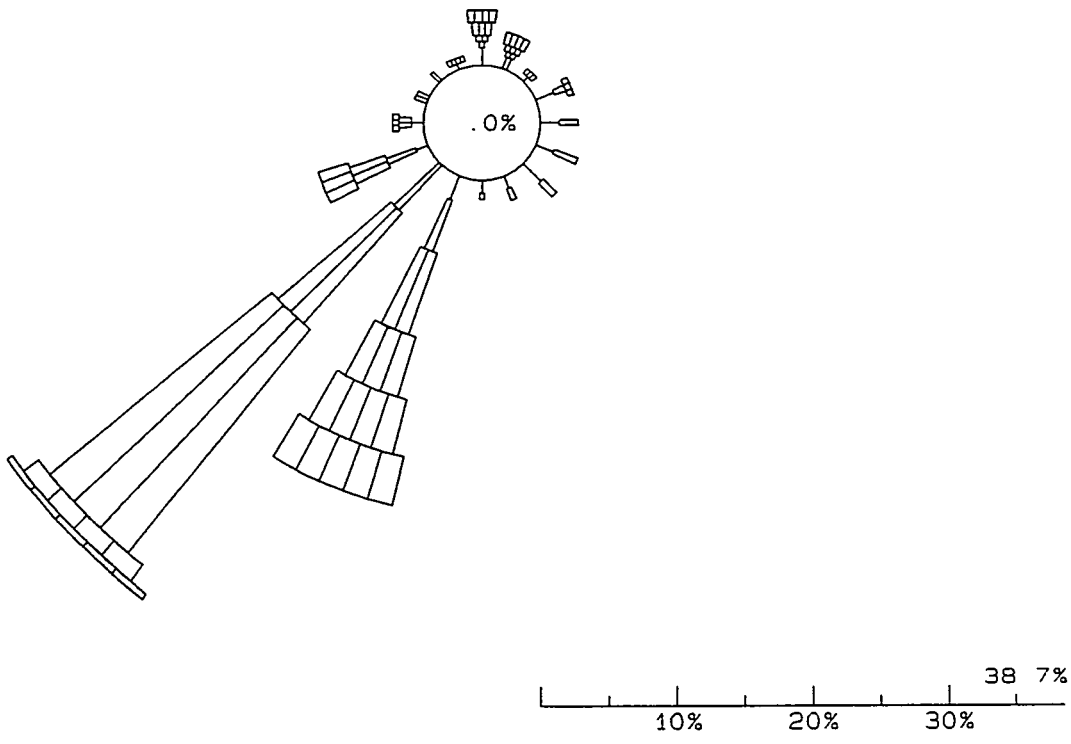
WIND SPEED CLASSES (MPS)

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

96.8% DATA RECOVERED
OF WHICH 29.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
5/ 1/1996 - 5/31/1996
1000 - 1600



WIND SPEED CLASSES (MPS)

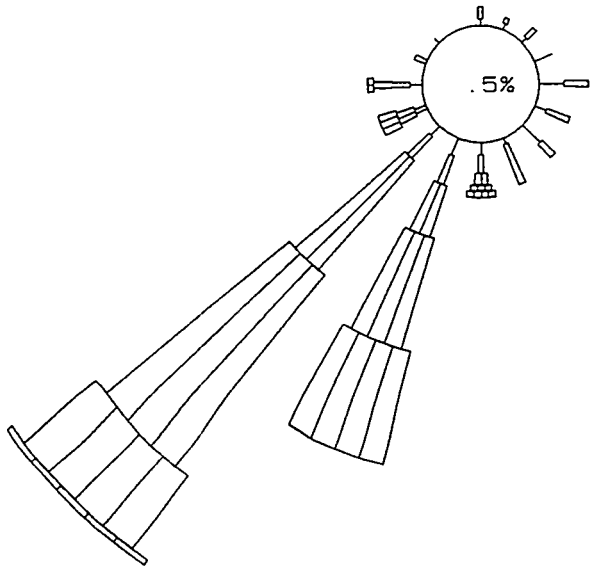
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	0	3.3< WS <= 5.4
4	0	5.4< WS <= 8.5
5	0	8.5< WS <=10.8
6	0	10 8< WS

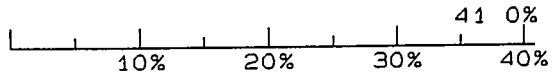
100.0% DATA RECOVERED
OF WHICH 29.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
6/ 1/1996 - 6/30/1996
1000 - 1600

N





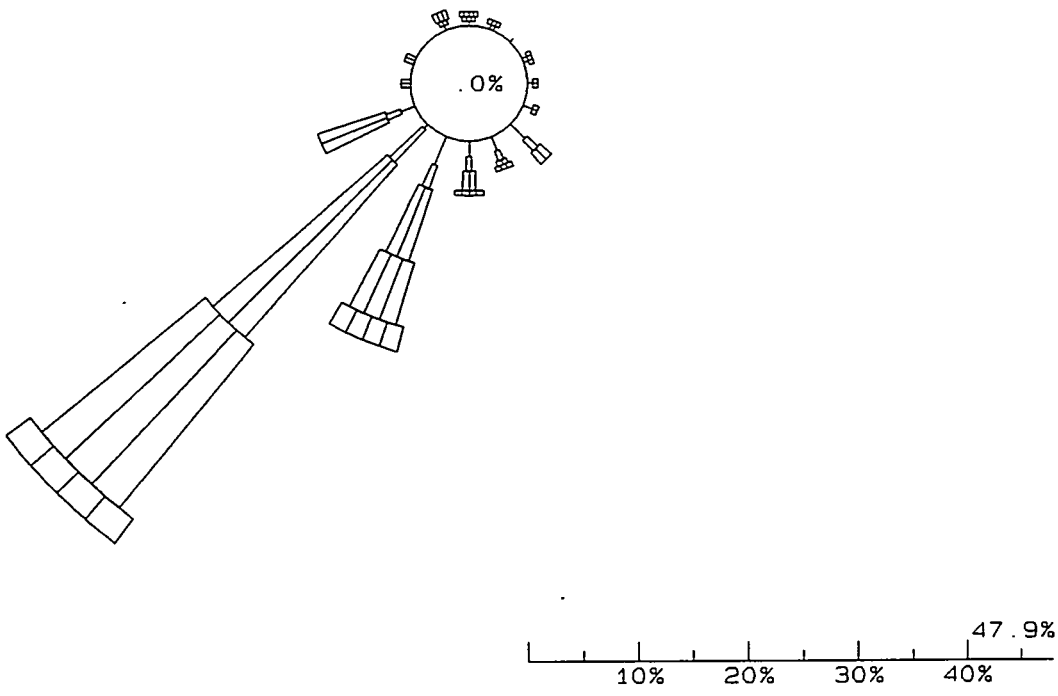
WIND SPEED CLASSES (MPS)

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

2 METER HEIGHT - Late Mid-Day
7/ 1/1996 - 7/31/1996
1000 - 1600



WIND SPEED CLASSES (MPS)

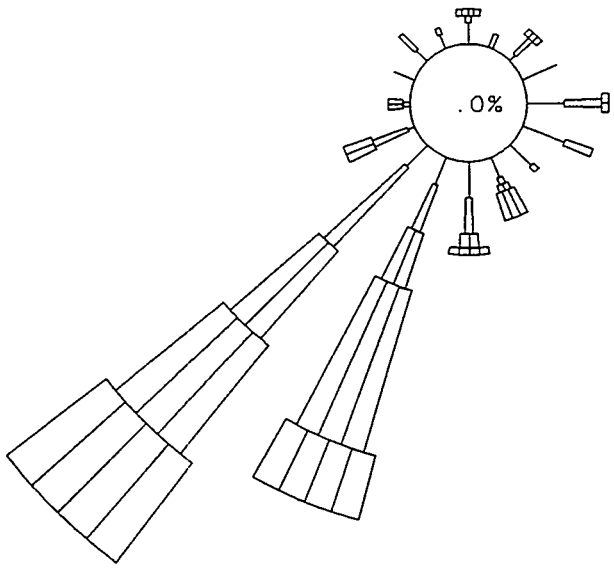
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

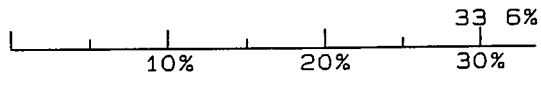
100.0% DATA RECOVERED
OF WHICH 29.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
8/ 1/1996 - 8/31/1996
1000 - 1600

N





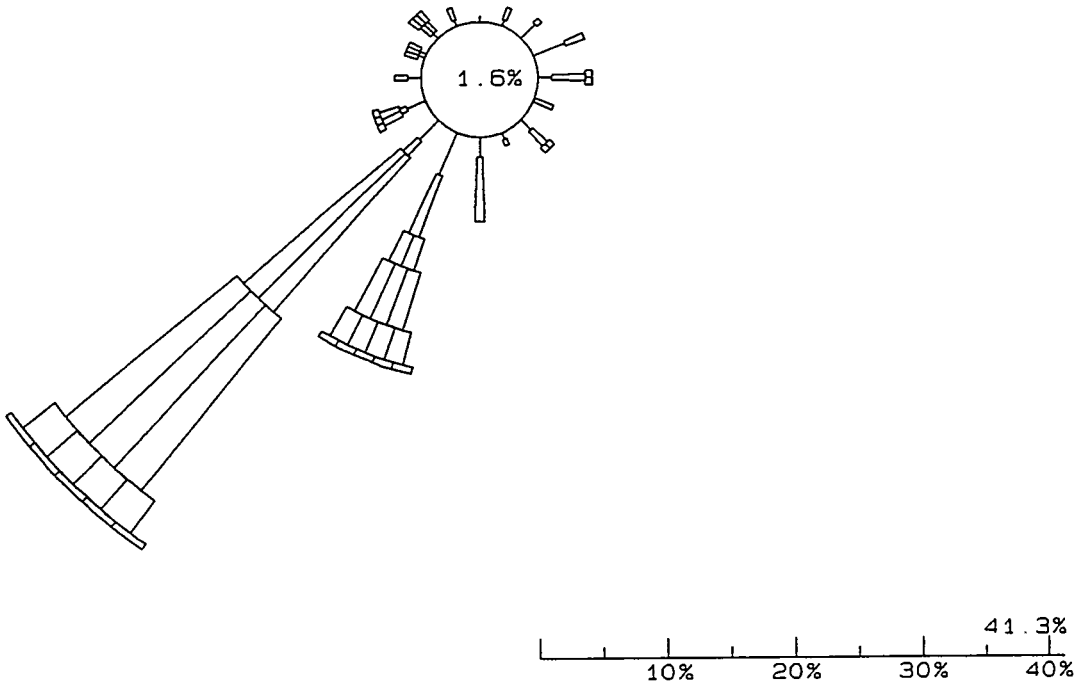
WIND SPEED CLASSES (MPS)

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

98.4% DATA RECOVERED
OF WHICH 28.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
9/ 1/1996 - 9/30/1996
1000 - 1600



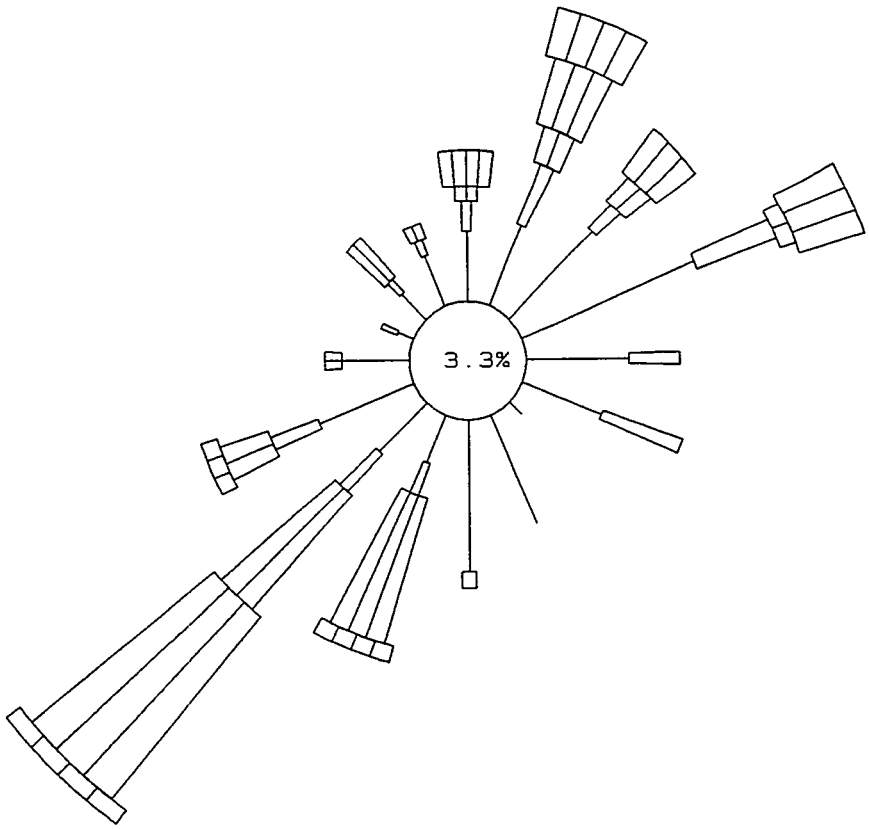
WIND SPEED CLASSES (MPS)

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

90.4% DATA RECOVERED
OF WHICH 29.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
10/ 1/1996 - 10/31/1996
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

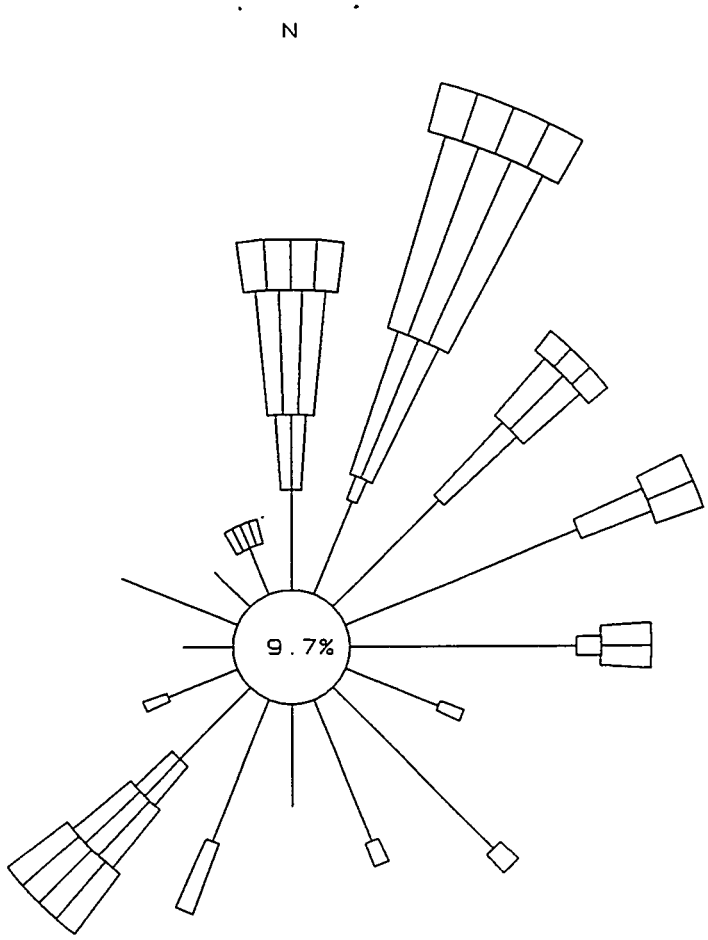
84.1% DATA RECOVERED
OF WHICH 29.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day

11/ 1/1996 - 11/30/1996

1000 - 1600



13.6%

10%

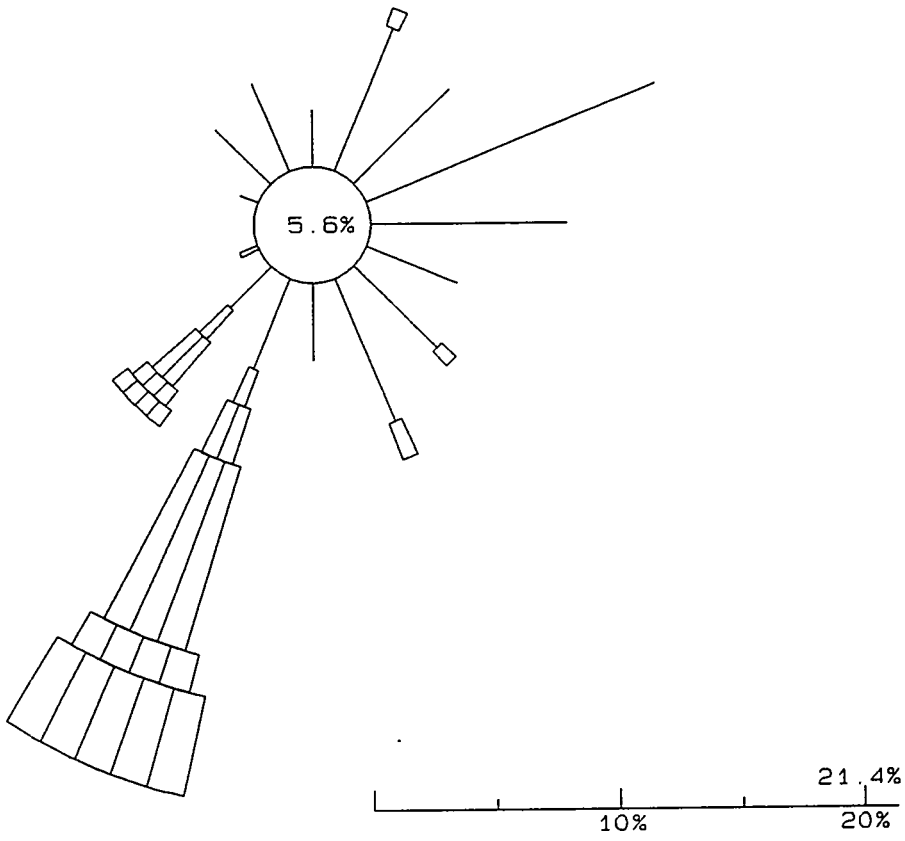
WIND SPEED CLASSES (MPS)

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

75.1% DATA RECOVERED
OF WHICH 28.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Late Mid-Day
12/ 1/1996 - 12/31/1996
1000 - 1600



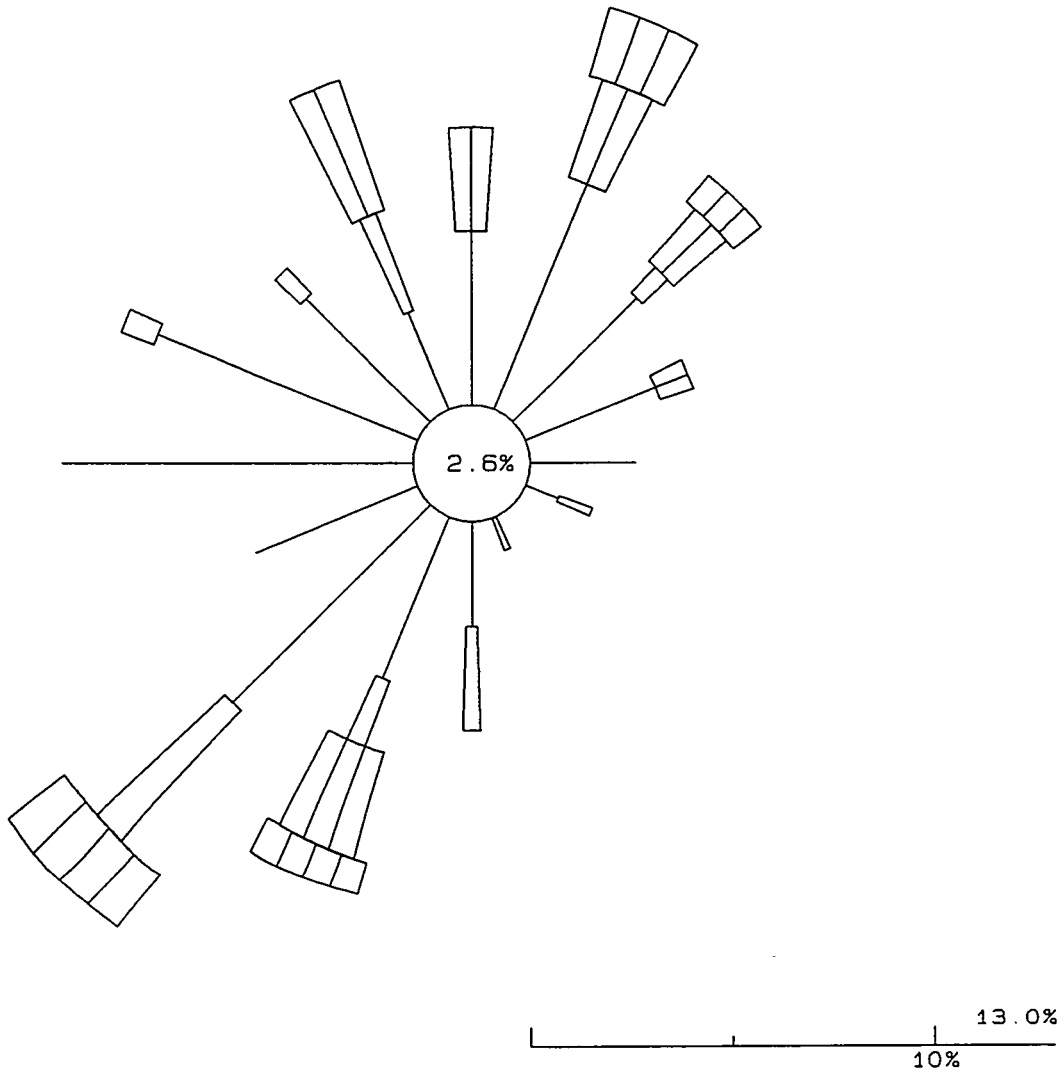
WIND SPEED CLASSES (MPS)

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

58.7% DATA RECOVERED
OF WHICH 28.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
1/ 1/1996 - 1/31/1996
1600 - 2000



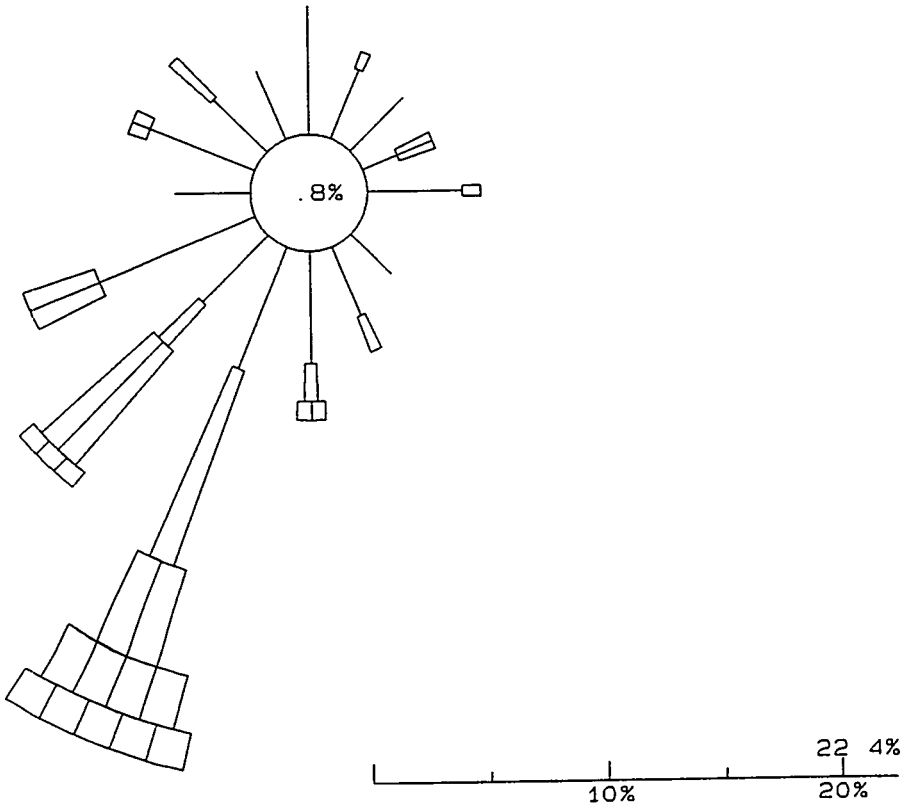
WIND SPEED CLASSES (MPS)

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

74.2% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
2/ 1/1996 - 2/29/1996
1600 - 2000



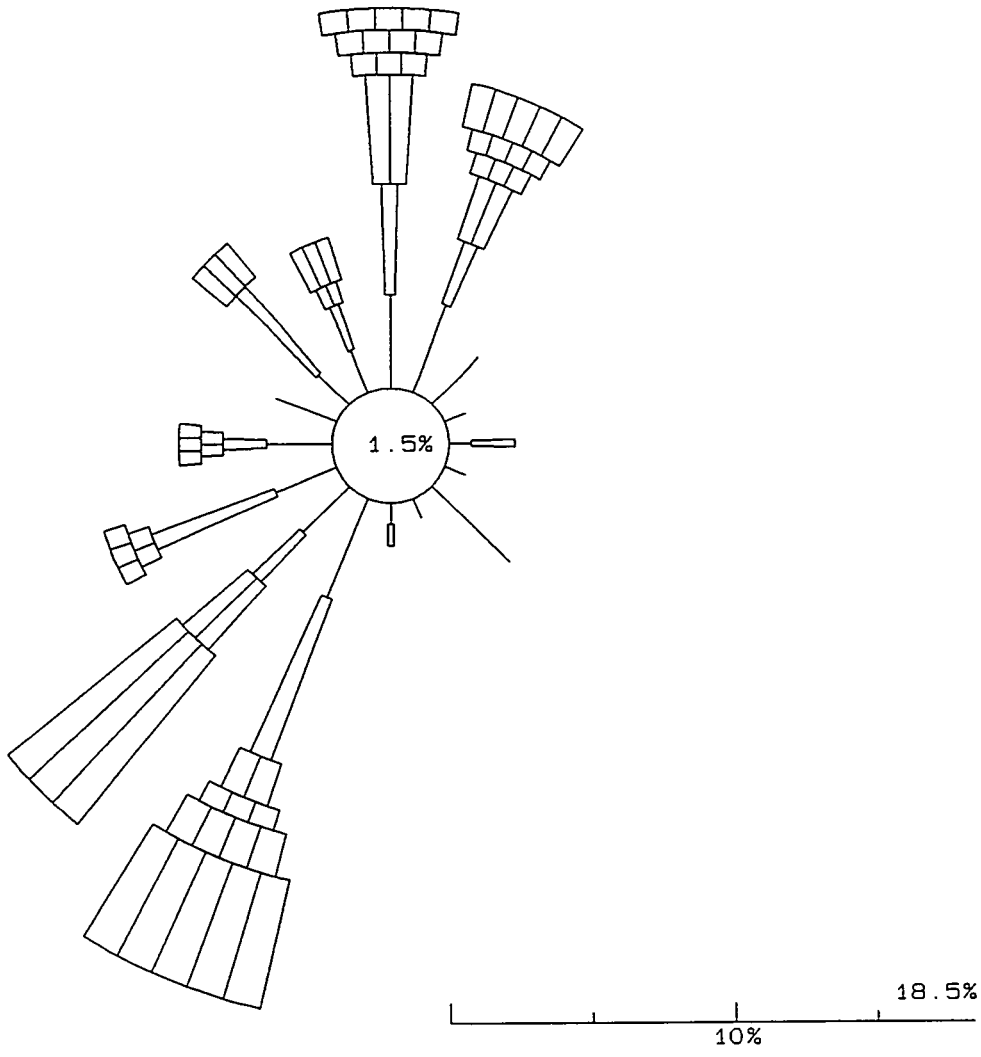
WIND SPEED CLASSES (MPS)

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

84.9% DATA RECOVERED
OF WHICH 21.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
3/ 1/1996 - 3/31/1996
1600 - 2000



WIND SPEED CLASSES (MPS)

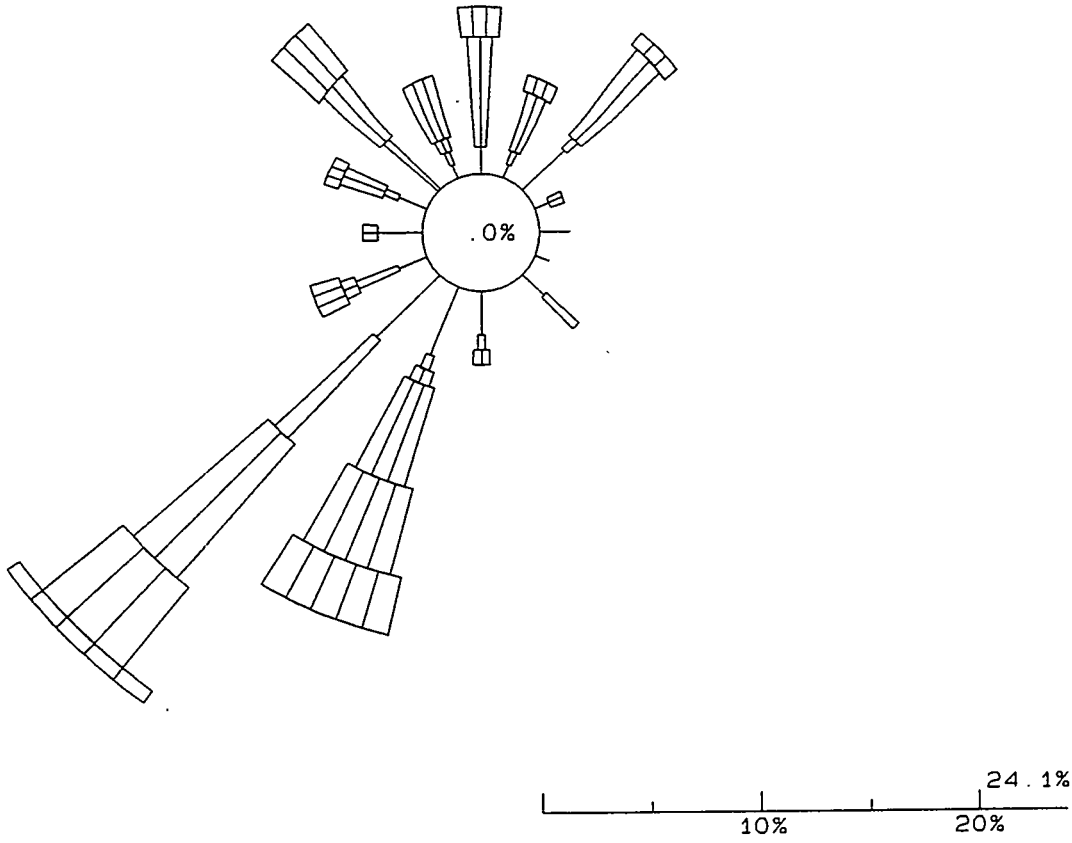
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

82.7% DATA RECOVERED
OF WHICH 21.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
4/ 1/1996 - 4/30/1996
1600 - 2000

N



WIND SPEED CLASSES (MPS)

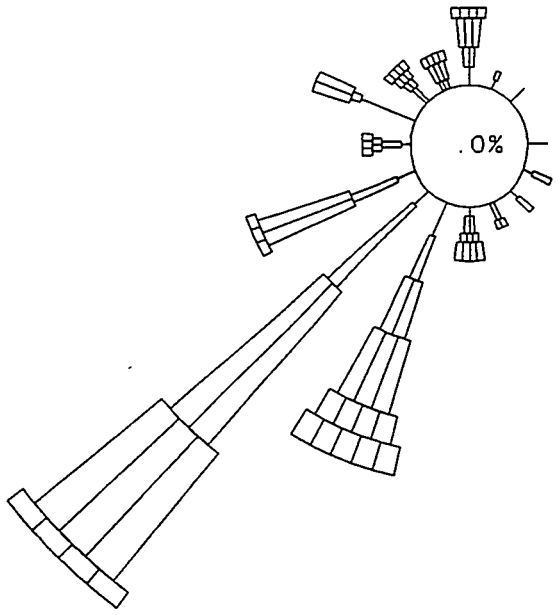
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

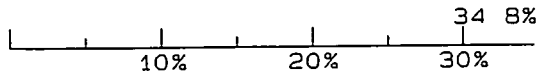
96.8% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
5/ 1/1996 - 5/31/1996
1600 - 2000

N





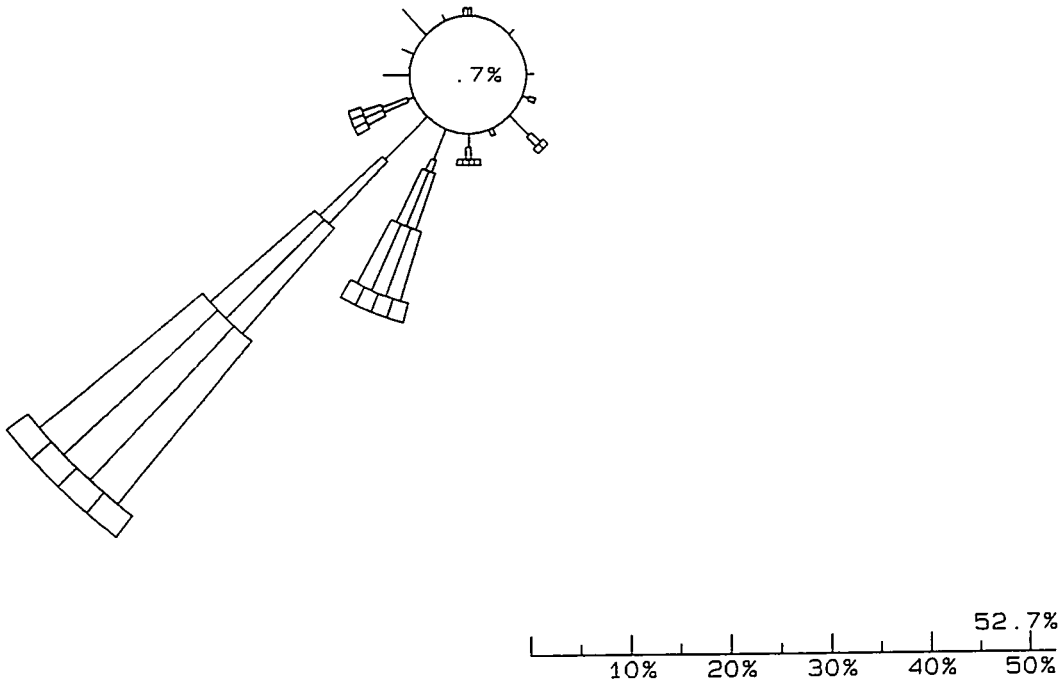
WIND SPEED CLASSES (MPS)

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
6/ 1/1996 - 6/30/1996
1600 - 2000



WIND SPEED CLASSES (MPS)

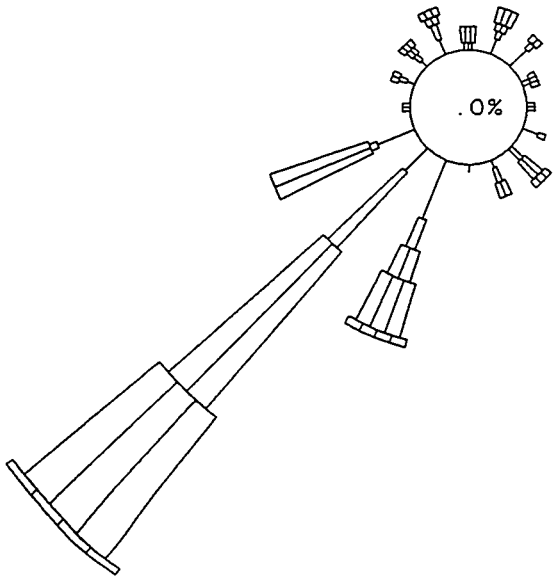
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

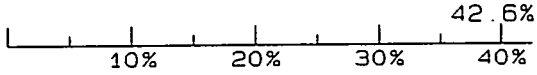
100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
7/ 1/1996 - 7/31/1996
1600 - 2000

N





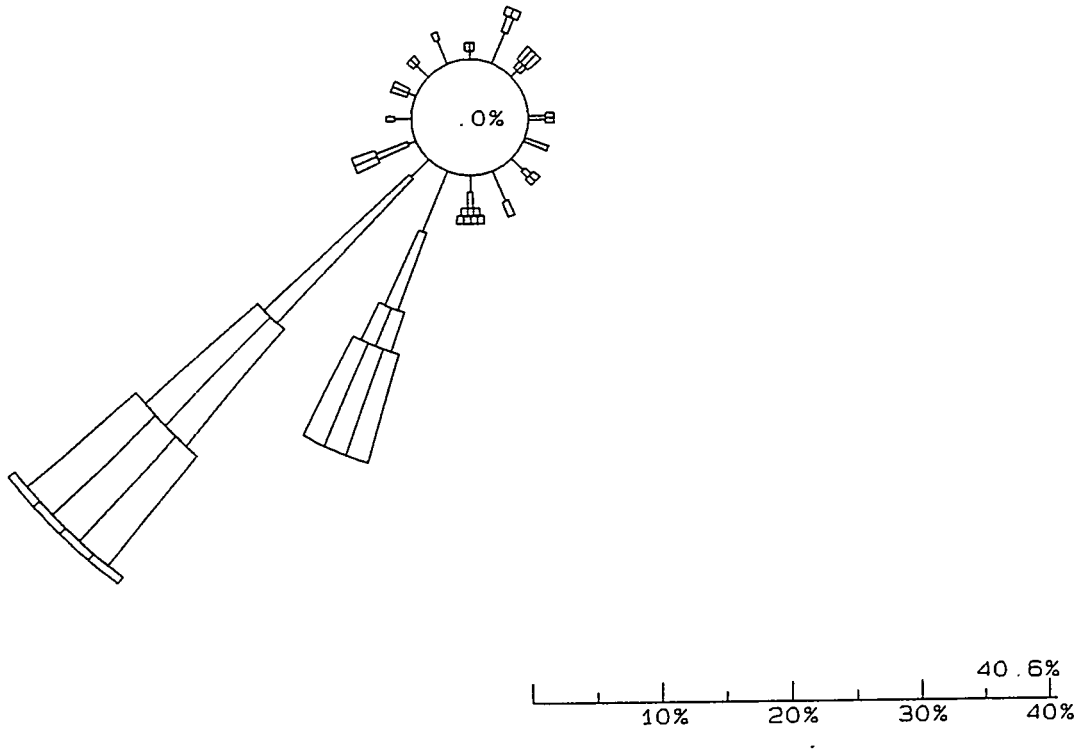
WIND SPEED CLASSES (MPS)

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
8/ 1/1996 - 8/31/1996
1600 - 2000



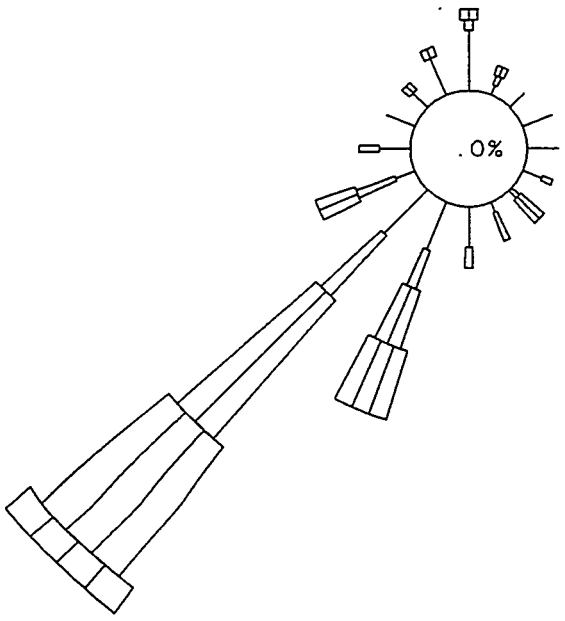
WIND SPEED CLASSES (MPS)

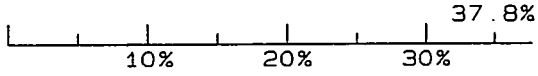
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

98.4% DATA RECOVERED
OF WHICH 21.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
9/ 1/1996 - 9/30/1996
1600 - 2000





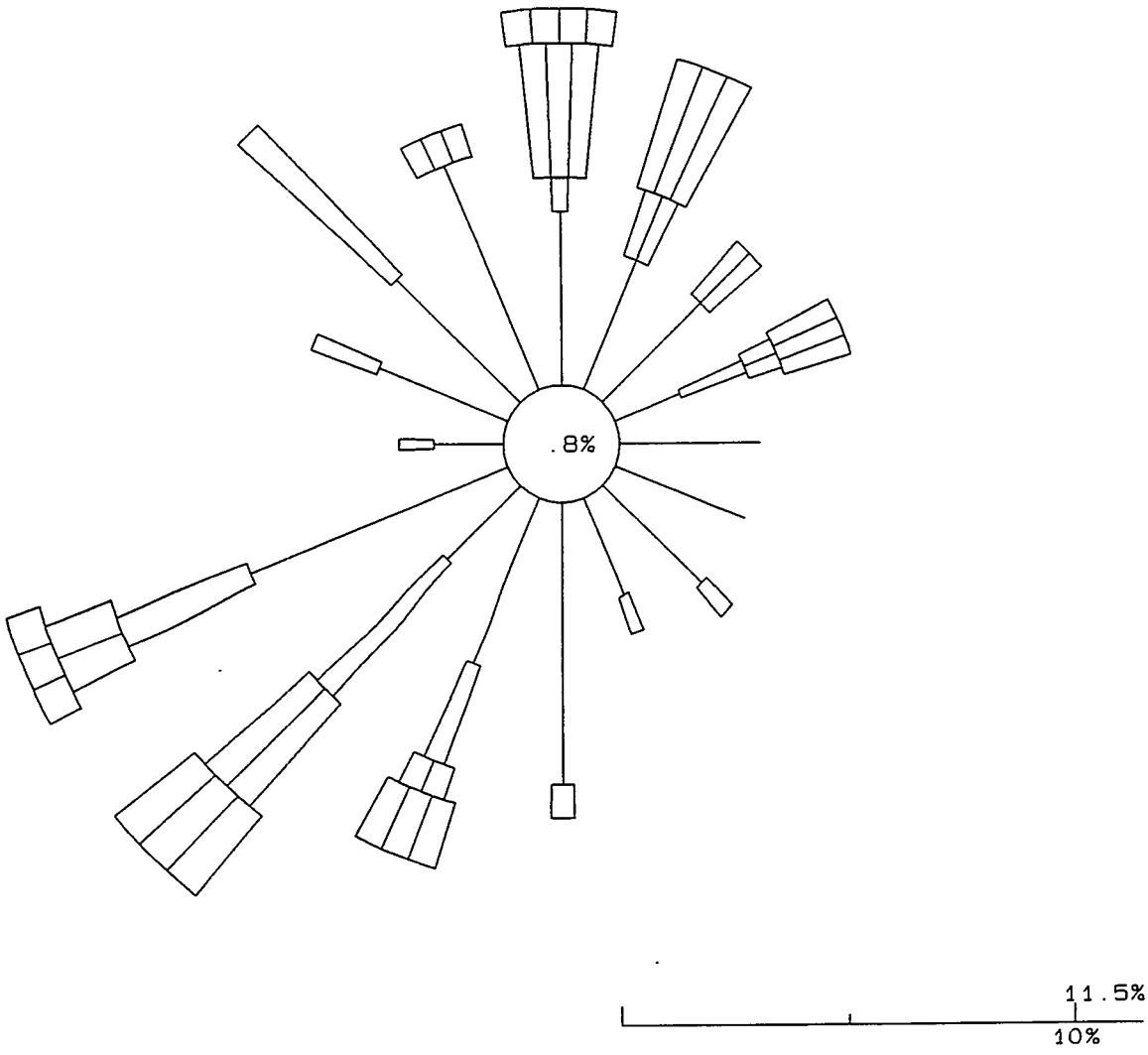
WIND SPEED CLASSES (MPS)

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

90.4% DATA RECOVERED
OF WHICH 20.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
10/ 1/1996 - 10/31/1996
1600 - 2000



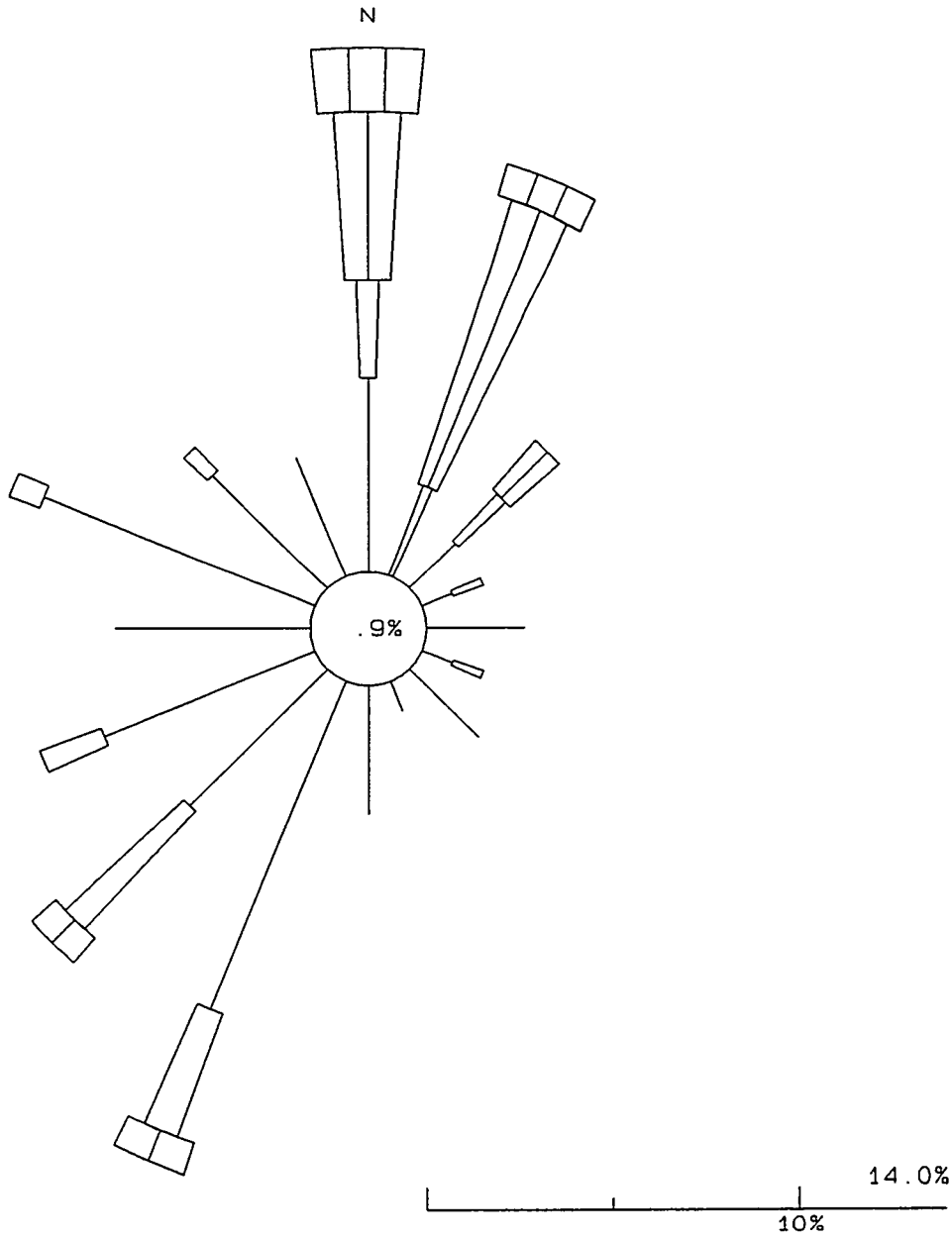
WIND SPEED CLASSES (MPS)

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

84.1% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
11/ 1/1996 - 11/30/1996
1600 - 2000



WIND SPEED CLASSES (MPS)

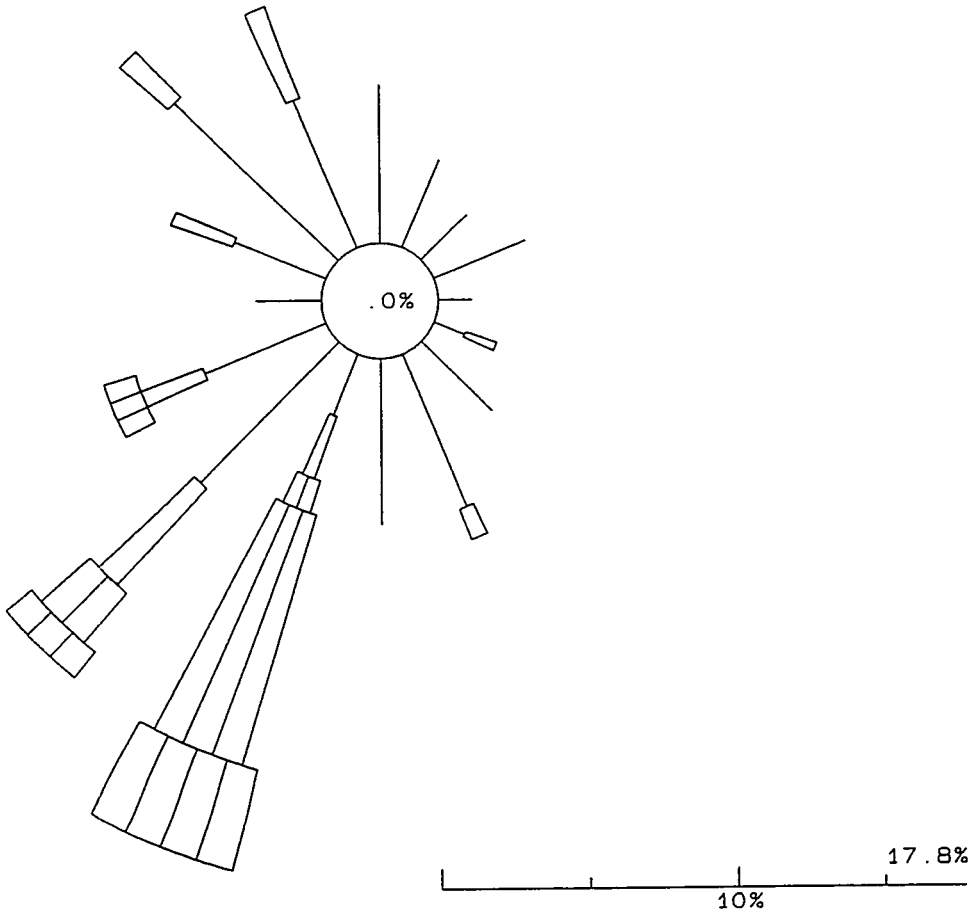
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

75.1% DATA RECOVERED
OF WHICH 21.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Evening Transition
12/ 1/1996 - 12/31/1996
1600 - 2000

N



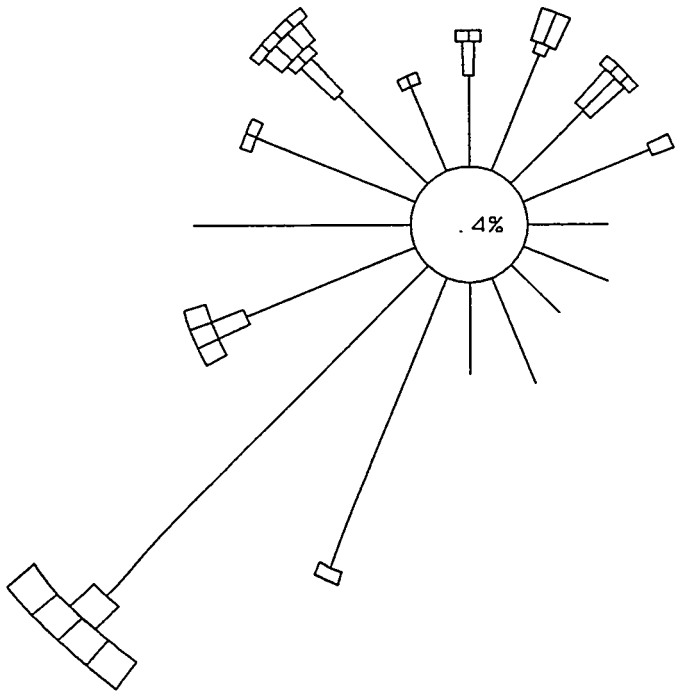
WIND SPEED CLASSES (MPS)

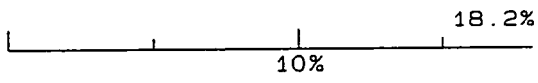
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

58.7% DATA RECOVERED
OF WHICH 20.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
1/ 1/1996 - 1/31/1996
2000 - 600





WIND SPEED CLASSES (MPS)

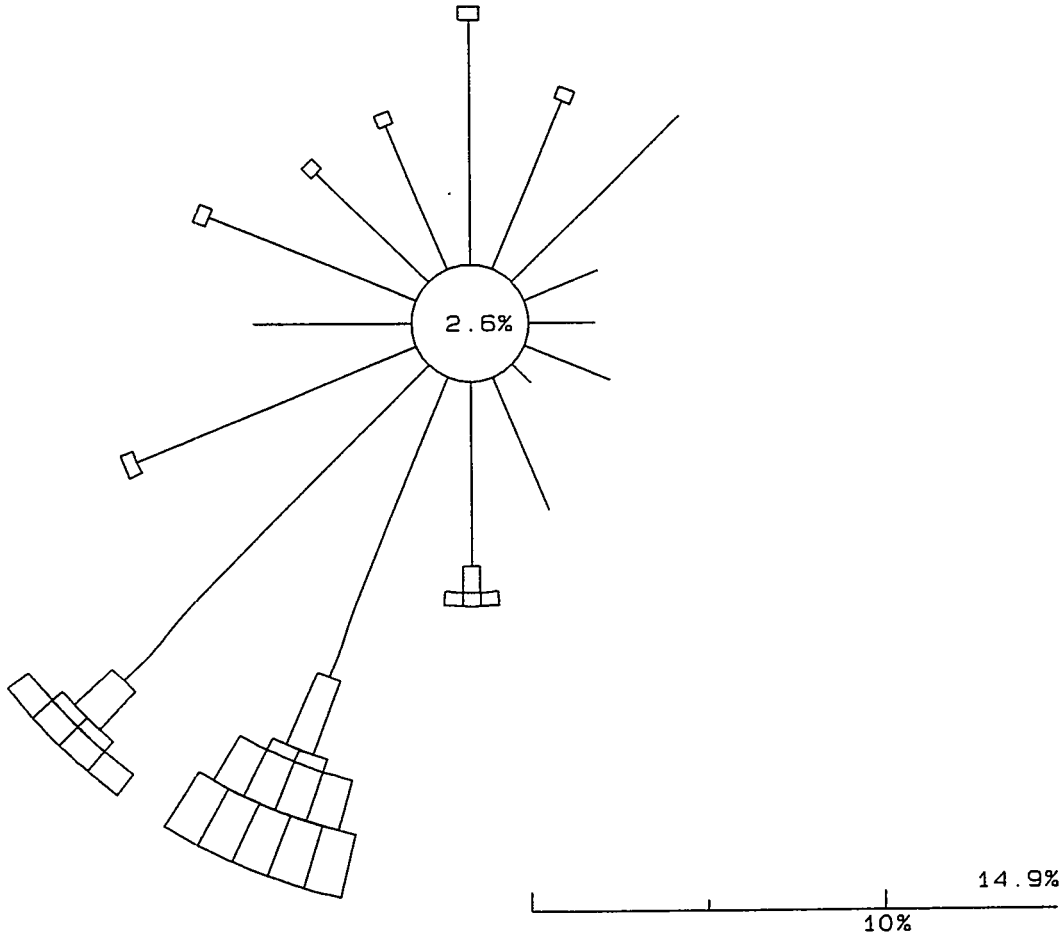
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

74.2% DATA RECOVERED
OF WHICH 45.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
2/ 1/1996 - 2/29/1996
2000 - 600

N



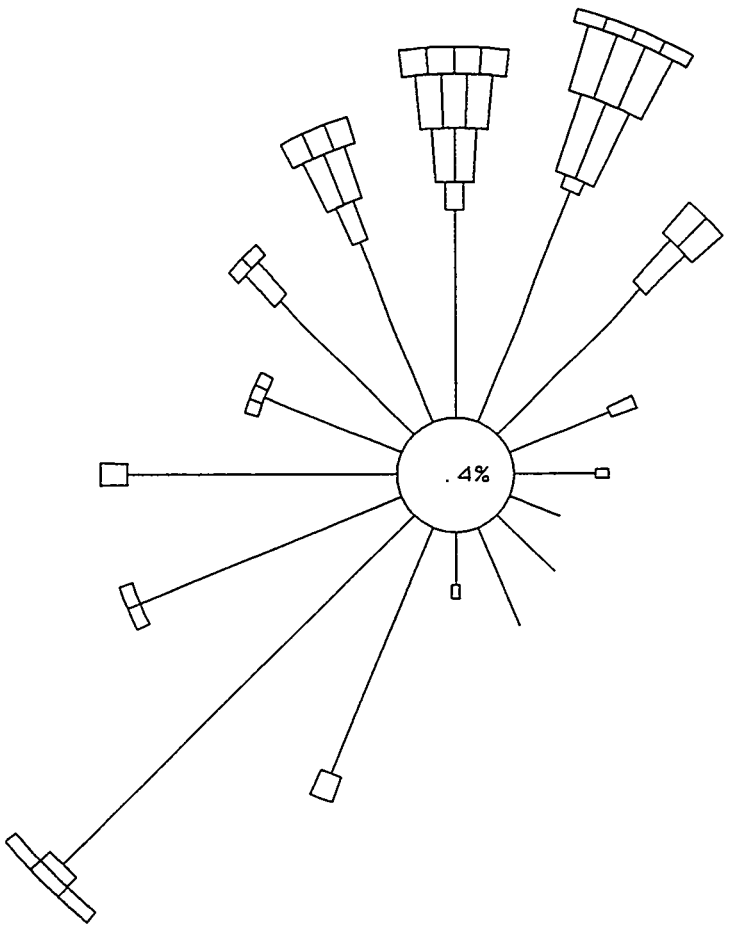
WIND SPEED CLASSES (MPS)

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

84.9% DATA RECOVERED
OF WHICH 45.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
3/ 1/1996 - 3/31/1996
2000 - 600



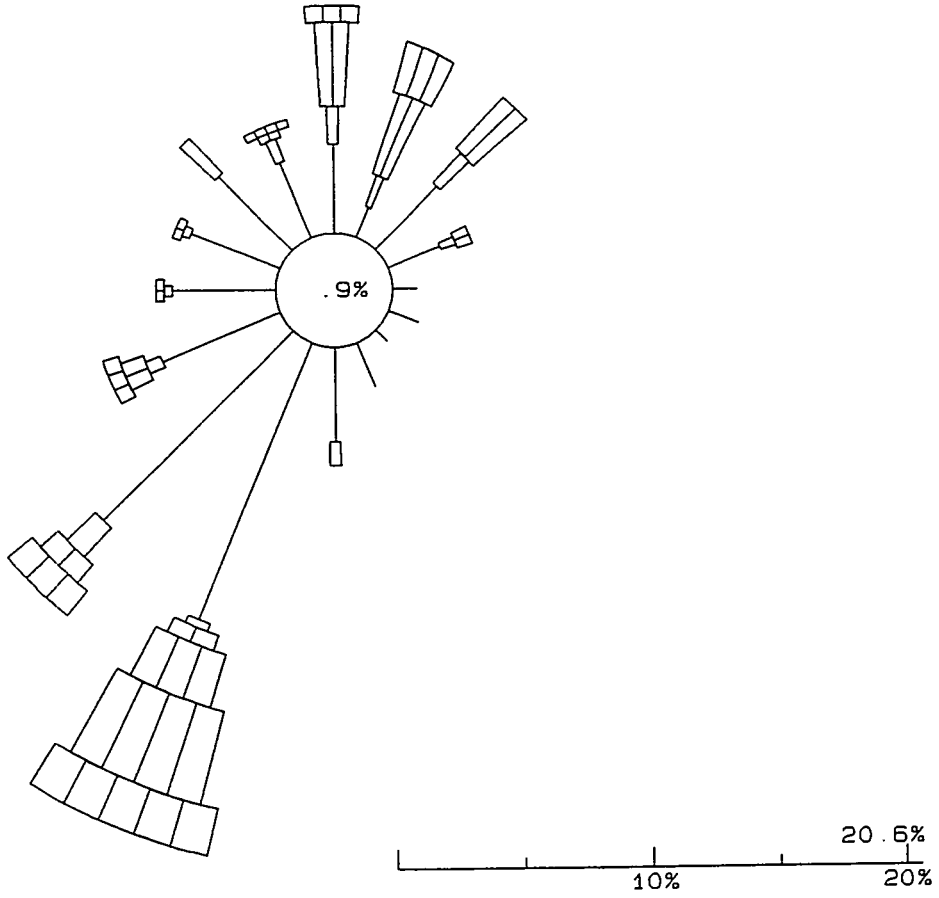
WIND SPEED CLASSES (MPS)

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

82.7% DATA RECOVERED
OF WHICH 45.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
4/ 1/1996 - 4/30/1996
2000 - 600



WIND SPEED CLASSES (MPS)

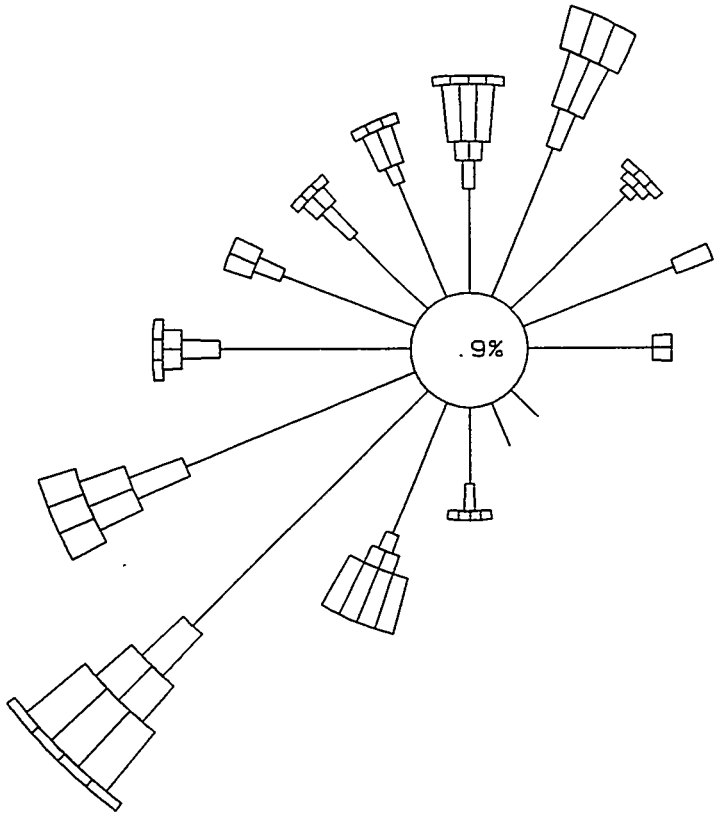
CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

96.8% DATA RECOVERED
OF WHICH 45.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
5/ 1/1996 - 5/31/1996
2000 - 600

N



16.1%
10%

WIND SPEED CLASSES (MPS)

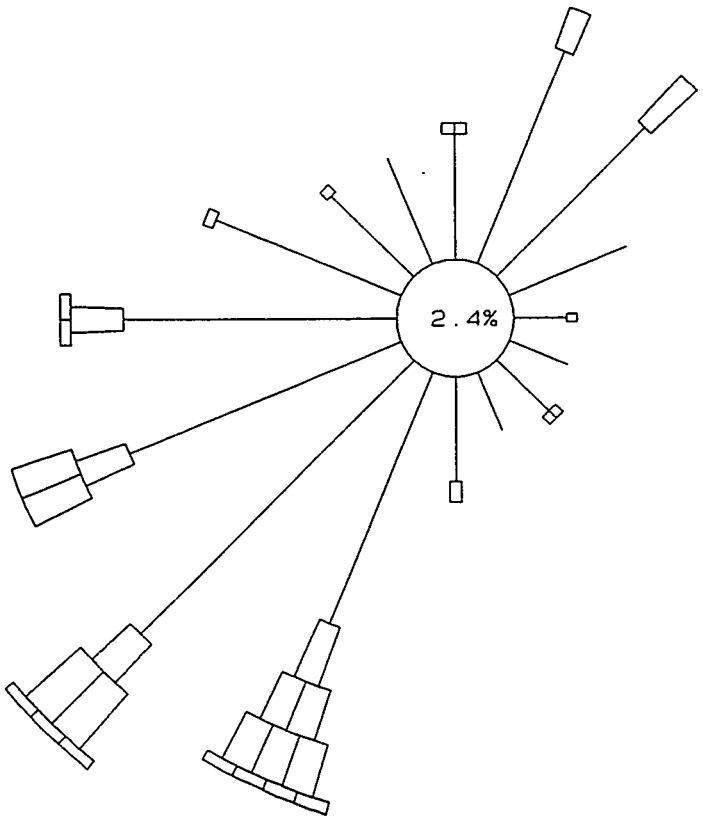
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 45.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
6/ 1/1996 - 6/30/1996
2000 - 600

N



15.2%
10%

WIND SPEED CLASSES (MPS)

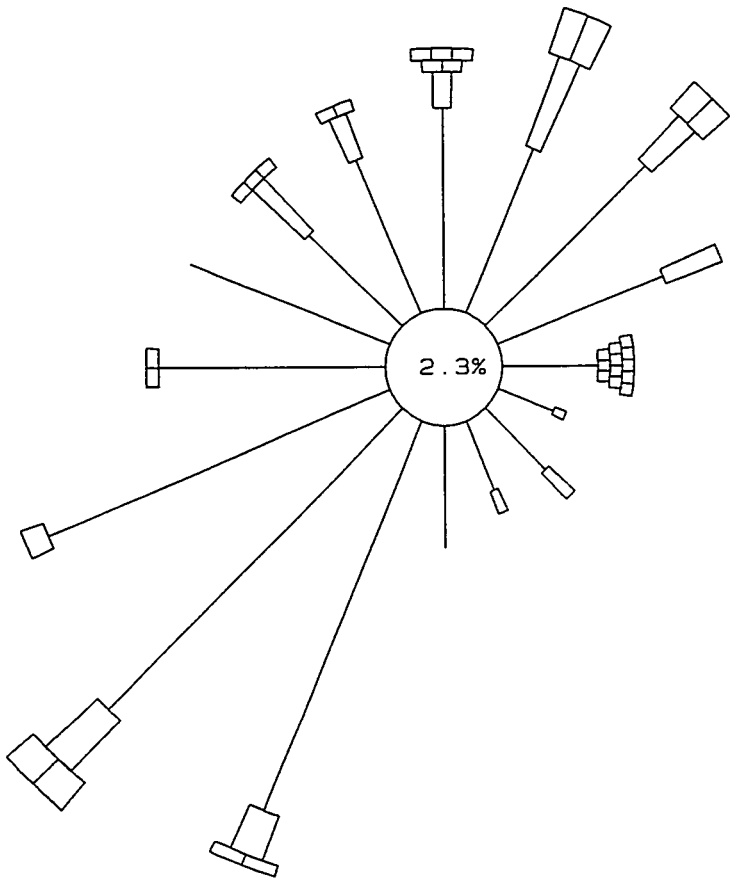
CALM	o	WS <= .5
1	ı	5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

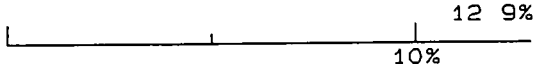
100.0% DATA RECOVERED
OF WHICH 45.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
7/ 1/1996 - 7/31/1996
2000 - 600

N





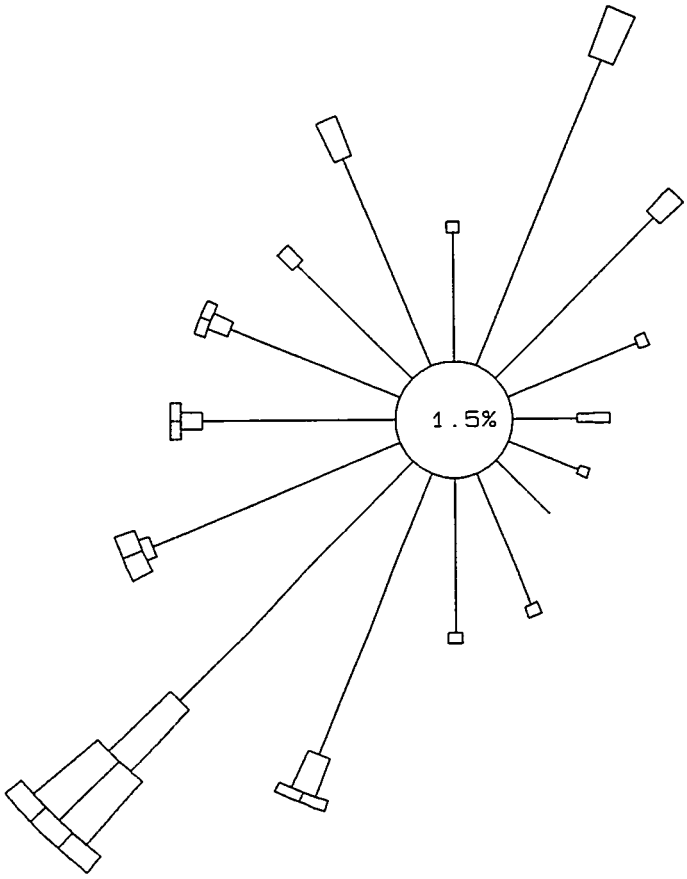
WIND SPEED CLASSES (MPS)

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

100.0% DATA RECOVERED
OF WHICH 45.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
8/ 1/1996 - 8/31/1996
2000 - 600



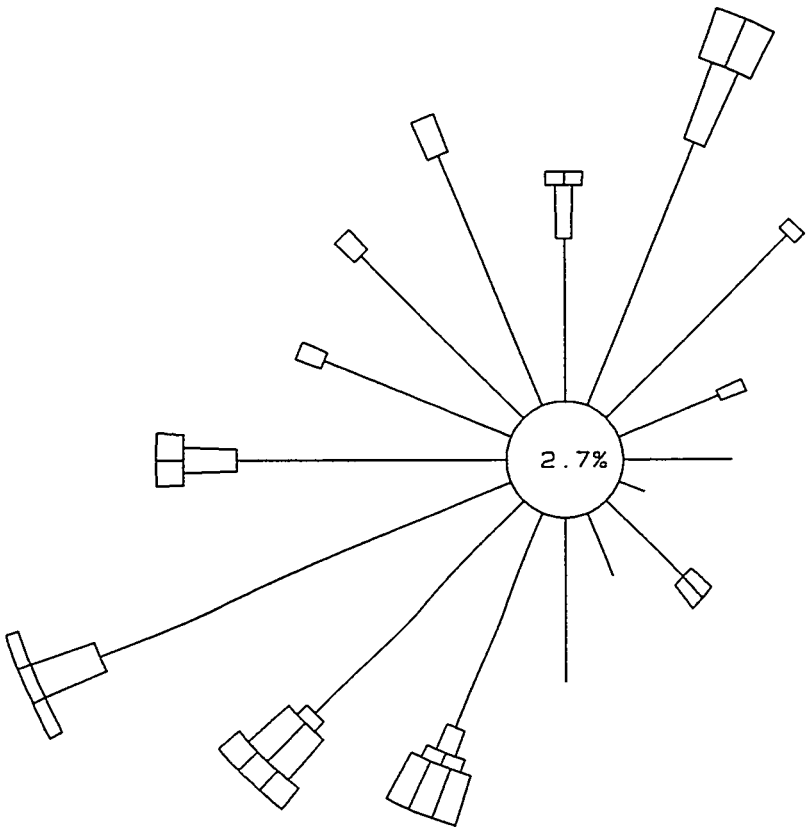
WIND SPEED CLASSES (MPS)

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

98.4% DATA RECOVERED
OF WHICH 46.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
9/ 1/1996 - 9/30/1996
2000 - 600



WIND SPEED CLASSES (MPS)

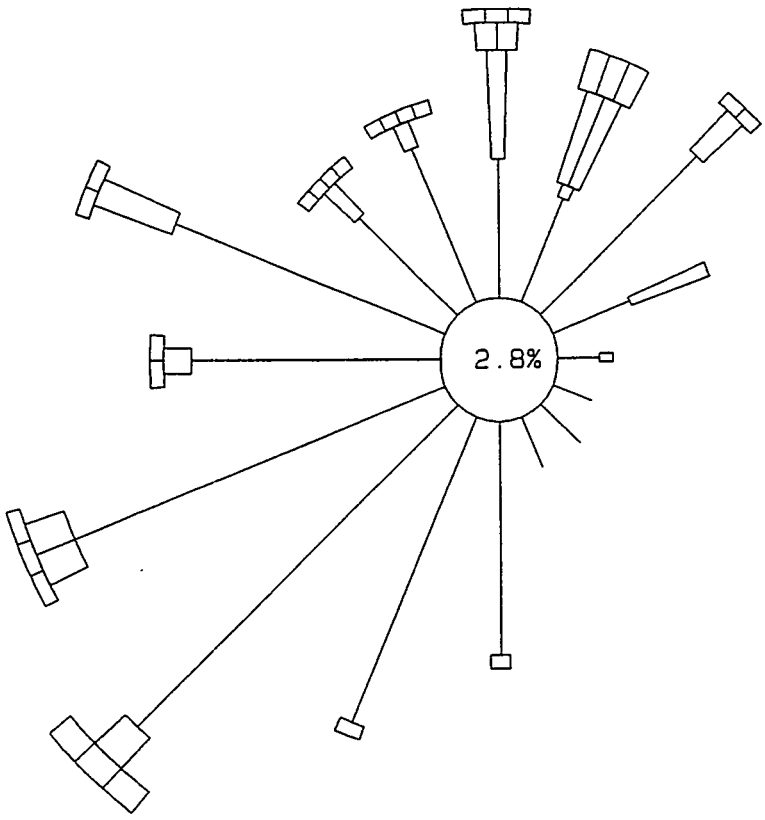
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

90.4% DATA RECOVERED
OF WHICH 46.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
10/ 1/1996 - 10/31/1996
2000 - 600

N



13.2%
10%

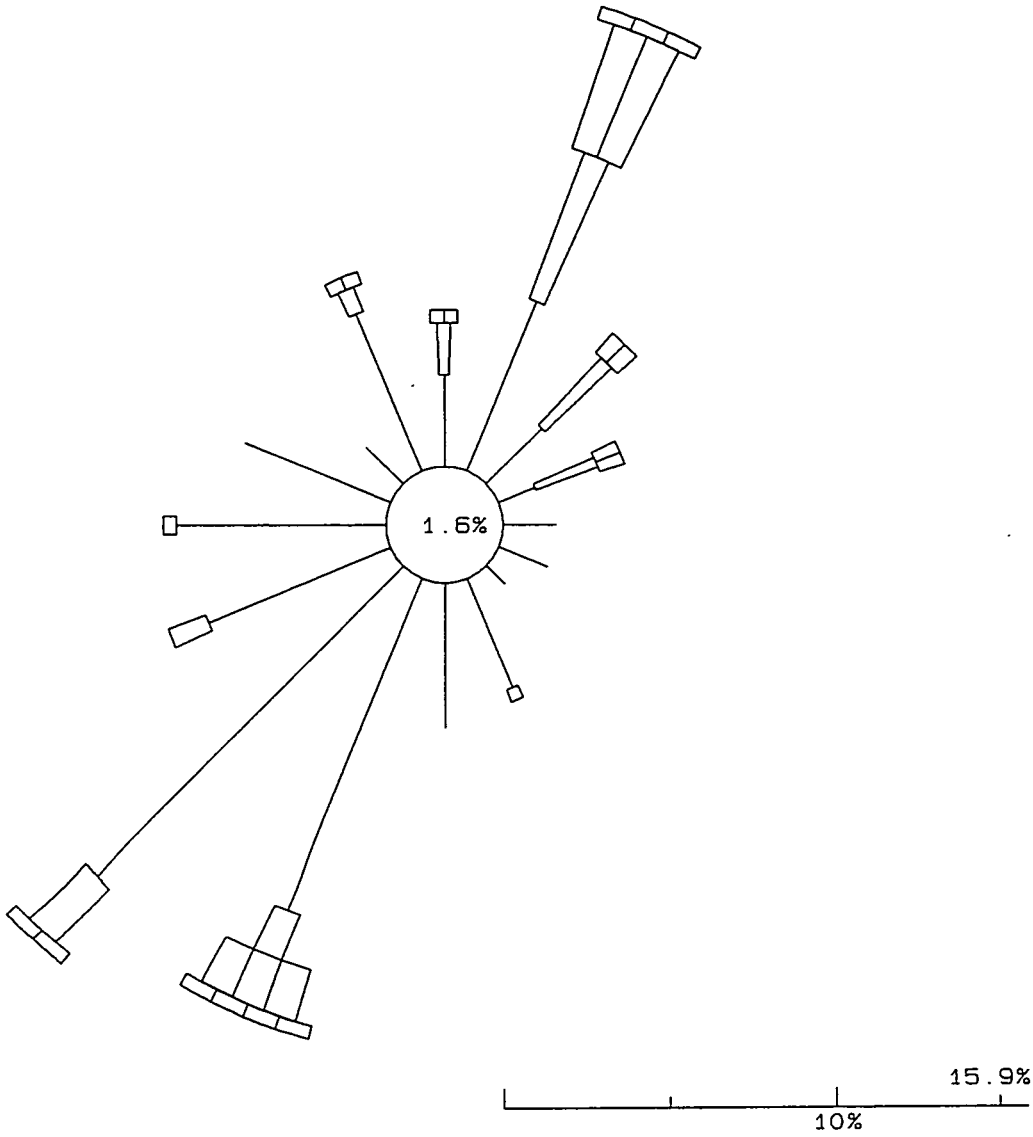
WIND SPEED CLASSES (MPS)

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

84.1% DATA RECOVERED
OF WHICH 46.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
11/ 1/1996 - 11/30/1996
2000 - 600



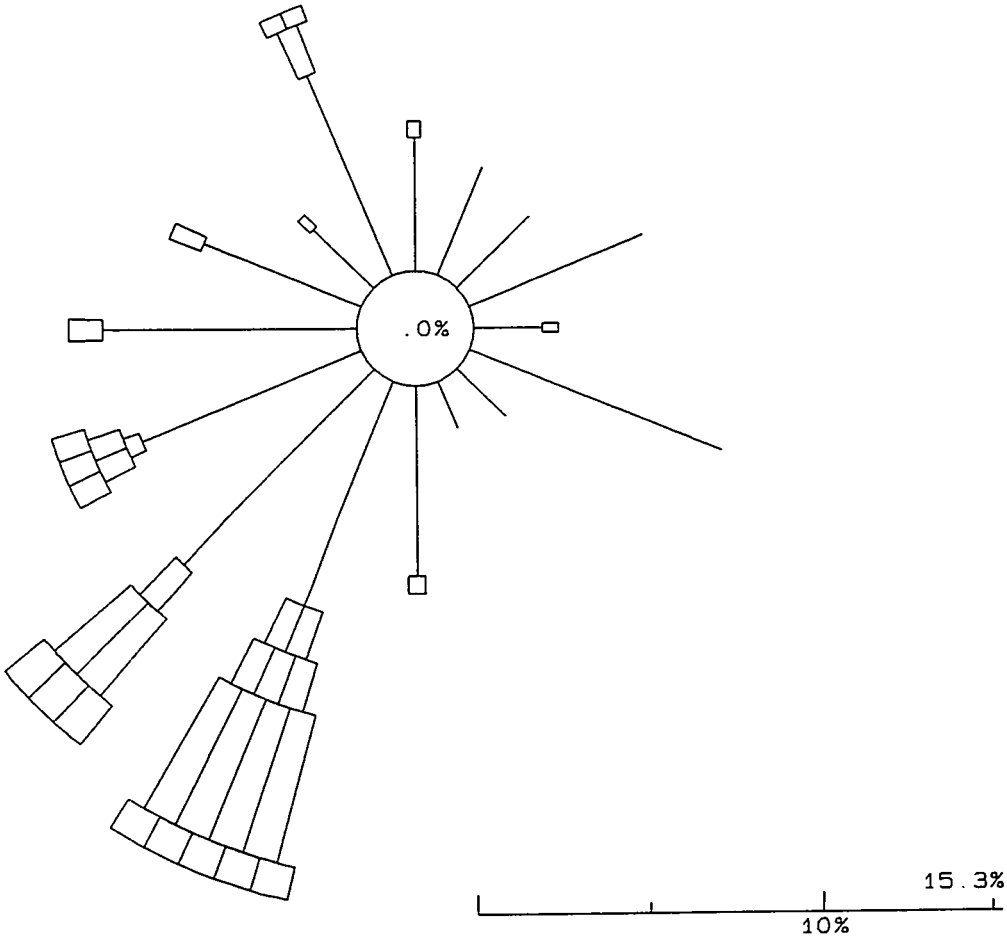
WIND SPEED CLASSES (MPS)

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

75.1% DATA RECOVERED
OF WHICH 46.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Night Time
12/ 1/1996 - 12/31/1996
2000 - 600

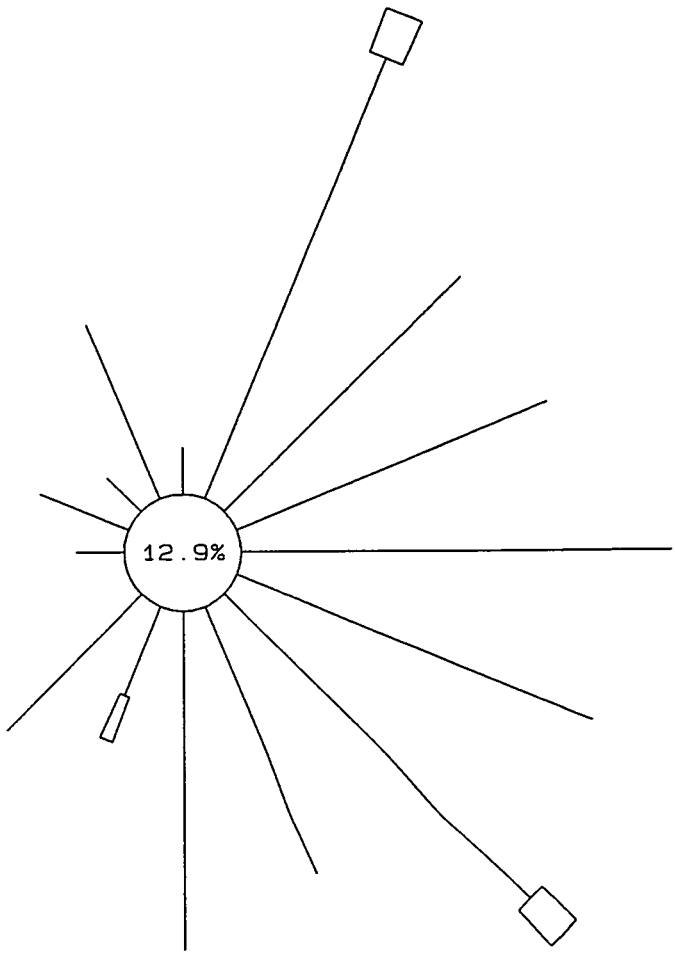


WIND SPEED CLASSES (MPS)

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

58.7% DATA RECOVERED
OF WHICH 46.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
1/ 1/1996 - 1/31/1996
0 - 2400

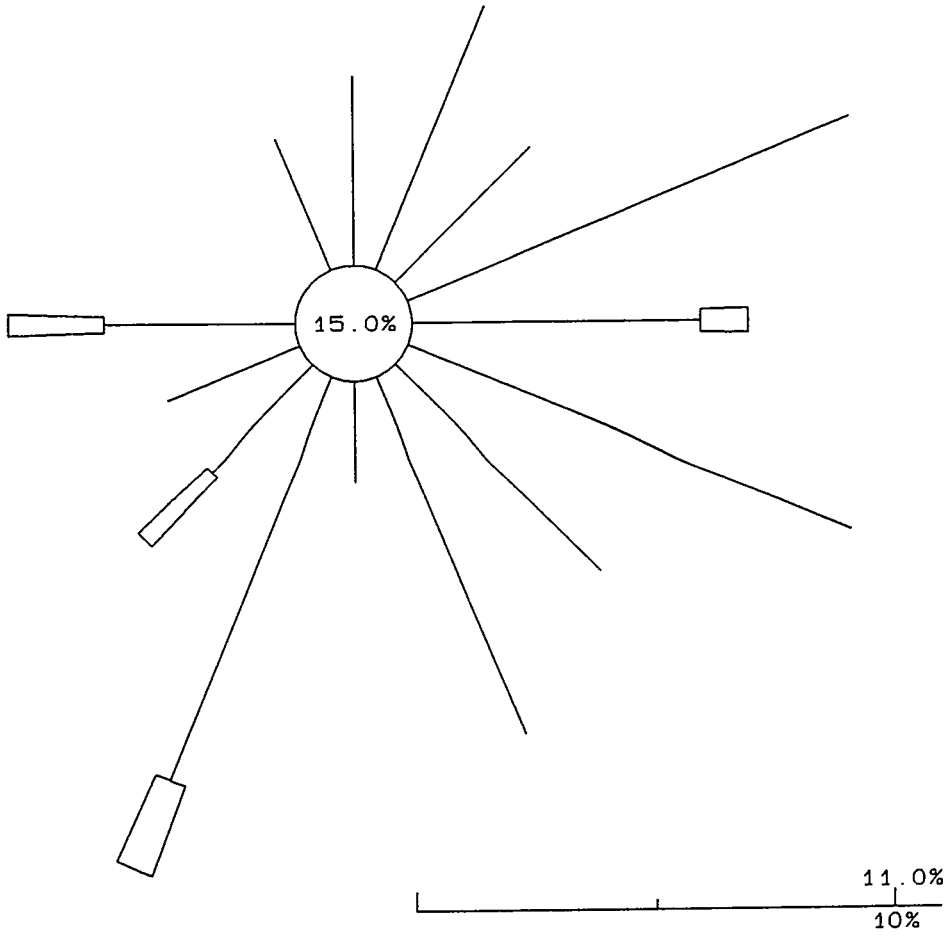


WIND SPEED CLASSES (MPS)

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

74.2% DATA RECOVERED
OF WHICH 16.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
2/ 1/1996 - 2/29/1996
0 - 2400

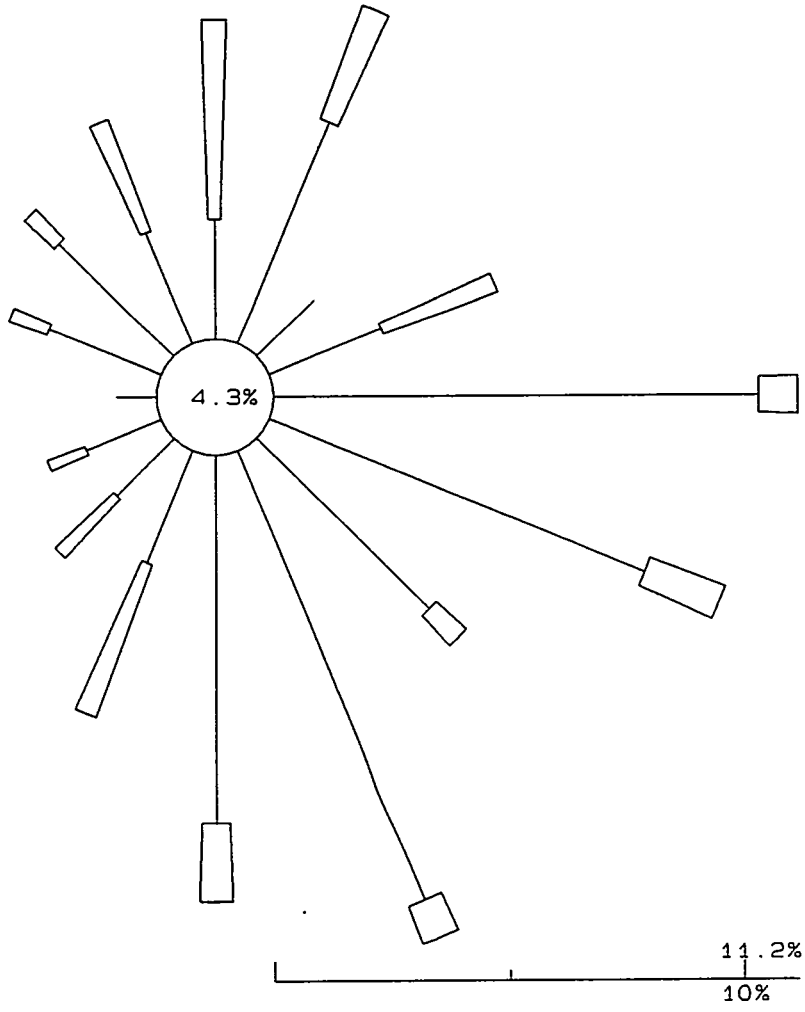


WIND SPEED CLASSES (MPS)

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

84.9% DATA RECOVERED
OF WHICH 16.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
3/ 1/1996 - 3/31/1996
0 - 2400



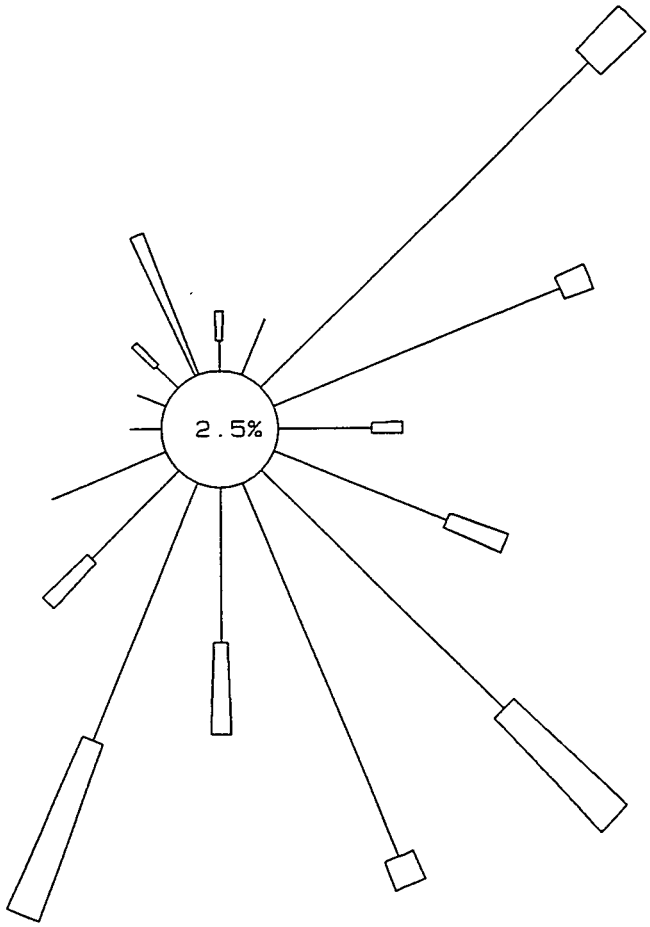
WIND SPEED CLASSES (MPS)

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

82.7% DATA RECOVERED
OF WHICH 18.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
4/ 1/1996 - 4/30/1996
0 - 2400

N



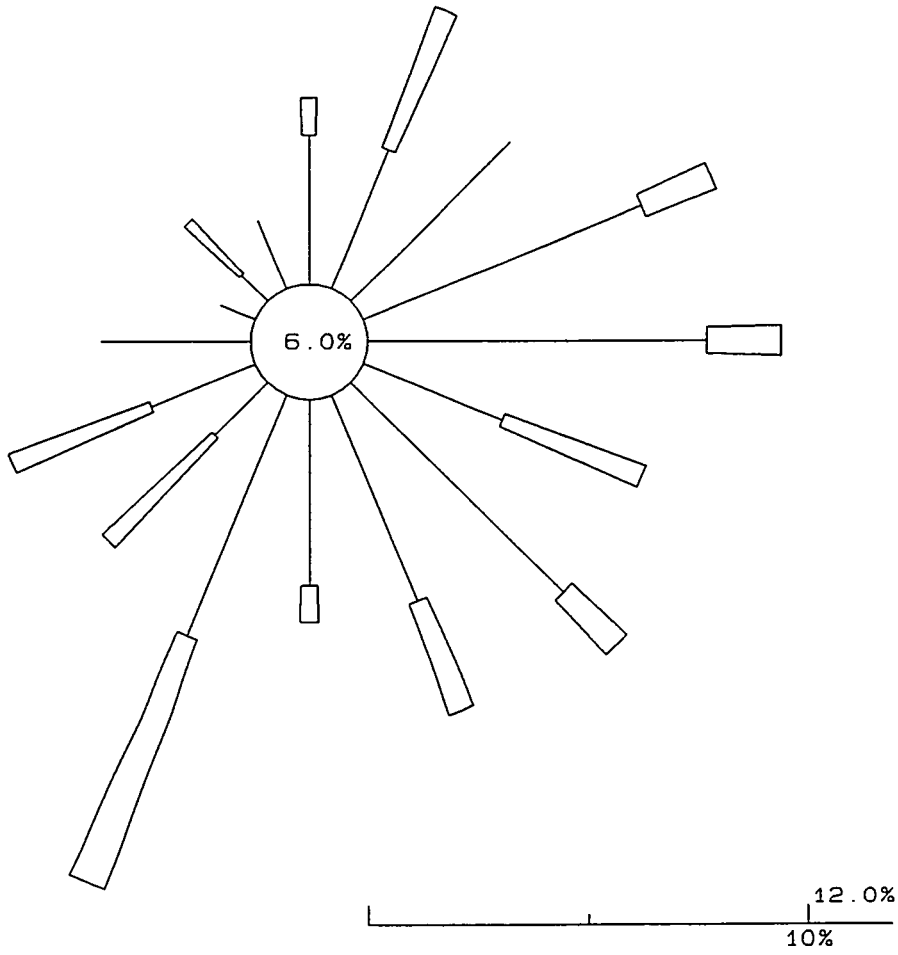
14.3%
10%

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

96.8% DATA RECOVERED
OF WHICH 17.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
5/ 1/1996 - 5/31/1996
0 - 2400

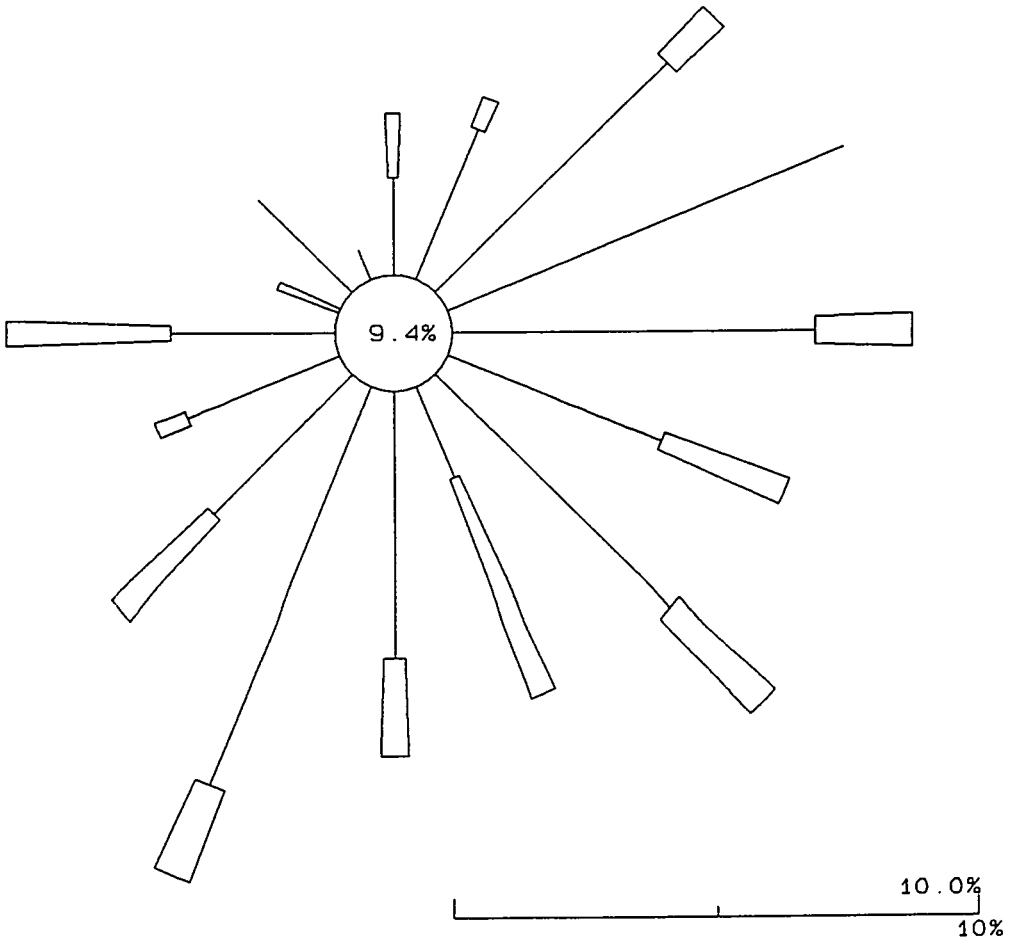


WIND SPEED CLASSES (MPS)

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 15.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
6/ 1/1996 - 6/30/1996
0 - 2400

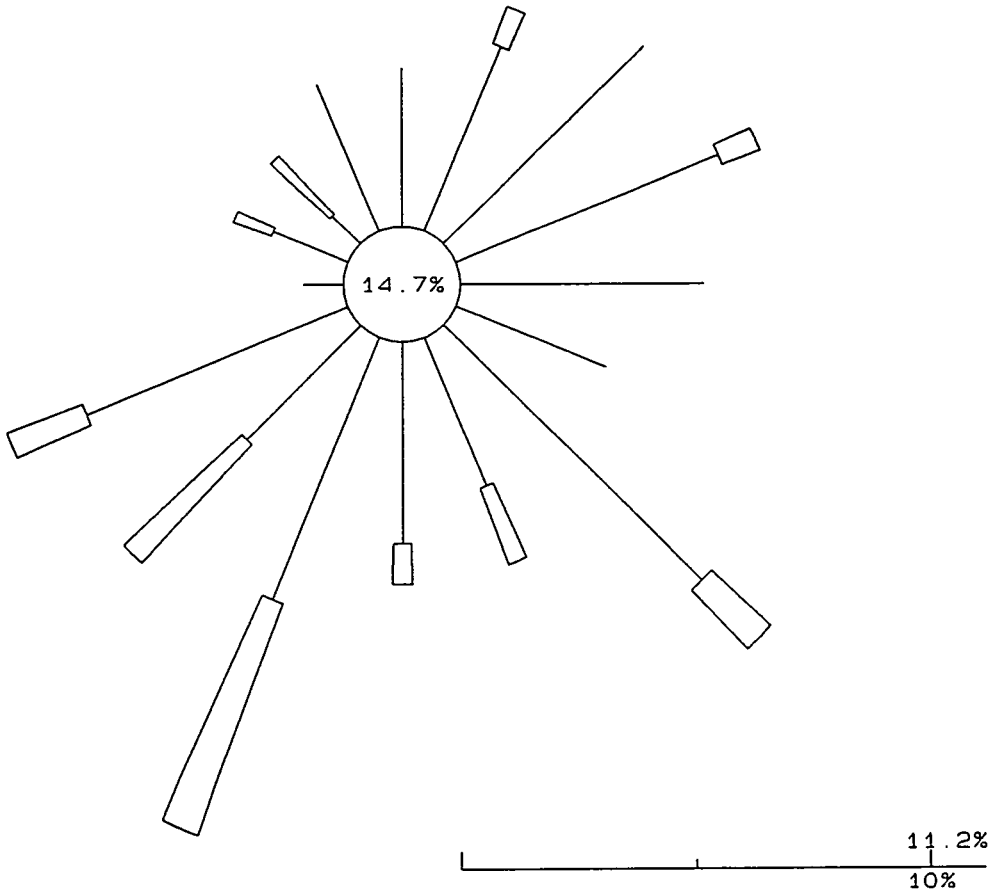


WIND SPEED CLASSES (MPS)

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 22.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
7/ 1/1996 - 7/31/1996
0 - 2400

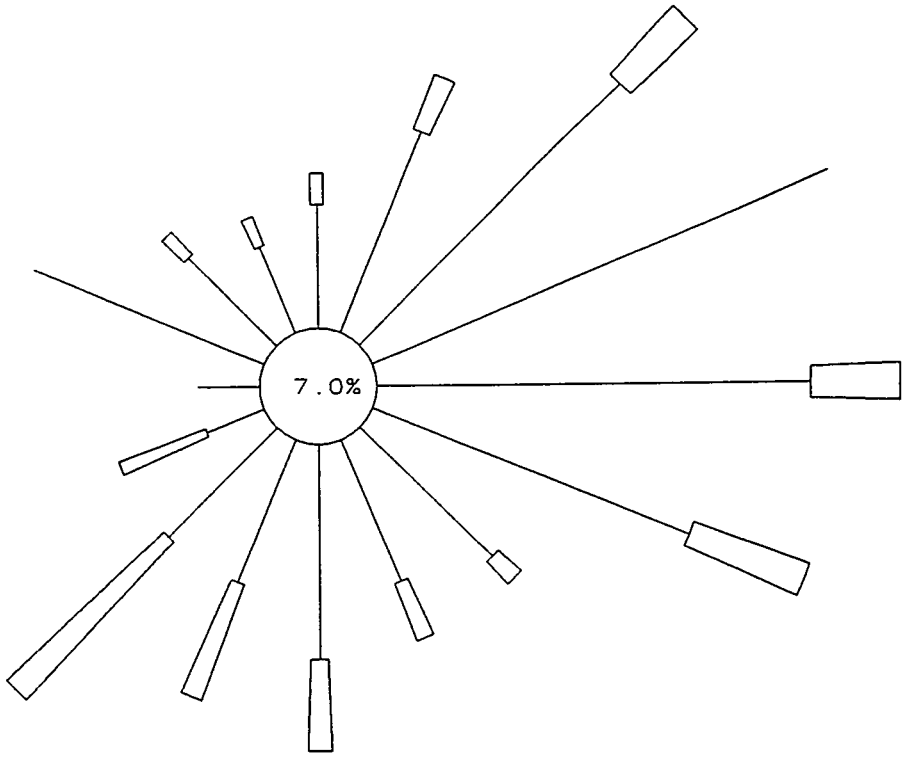


WIND SPEED CLASSES (MPS)

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 15.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
8/ 1/1996 - 8/31/1996
0 - 2400



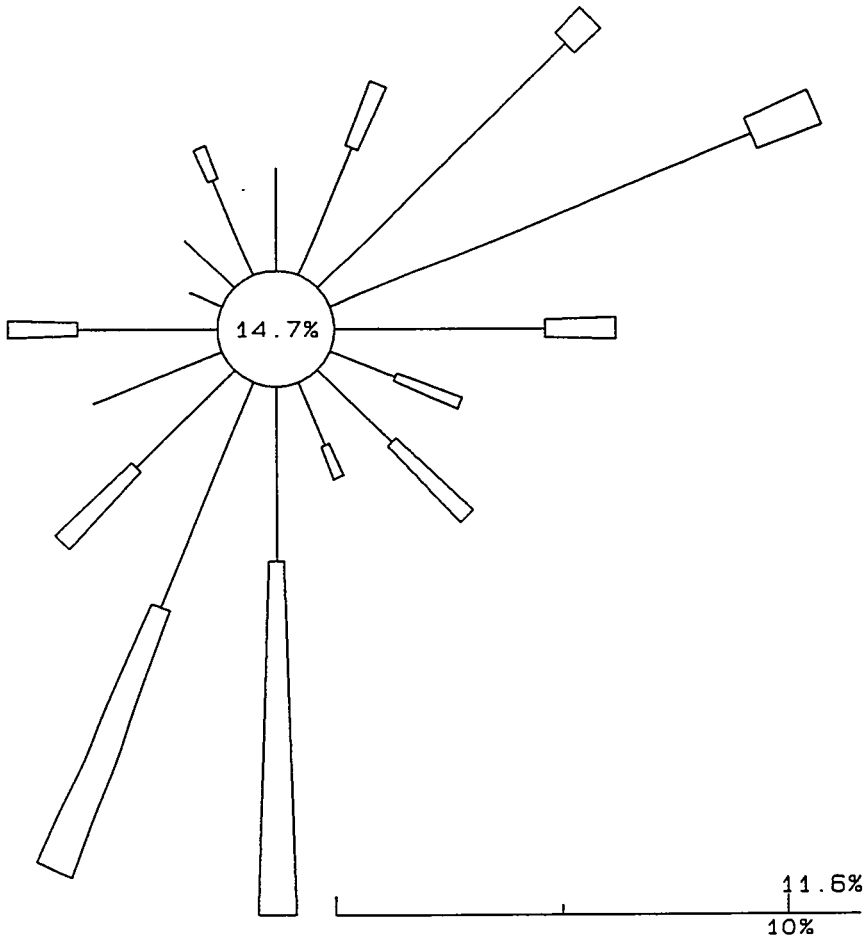
WIND SPEED CLASSES (MPS)

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

98.4% DATA RECOVERED
OF WHICH 21.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
9/ 1/1996 - 9/30/1996
0 - 2400

N

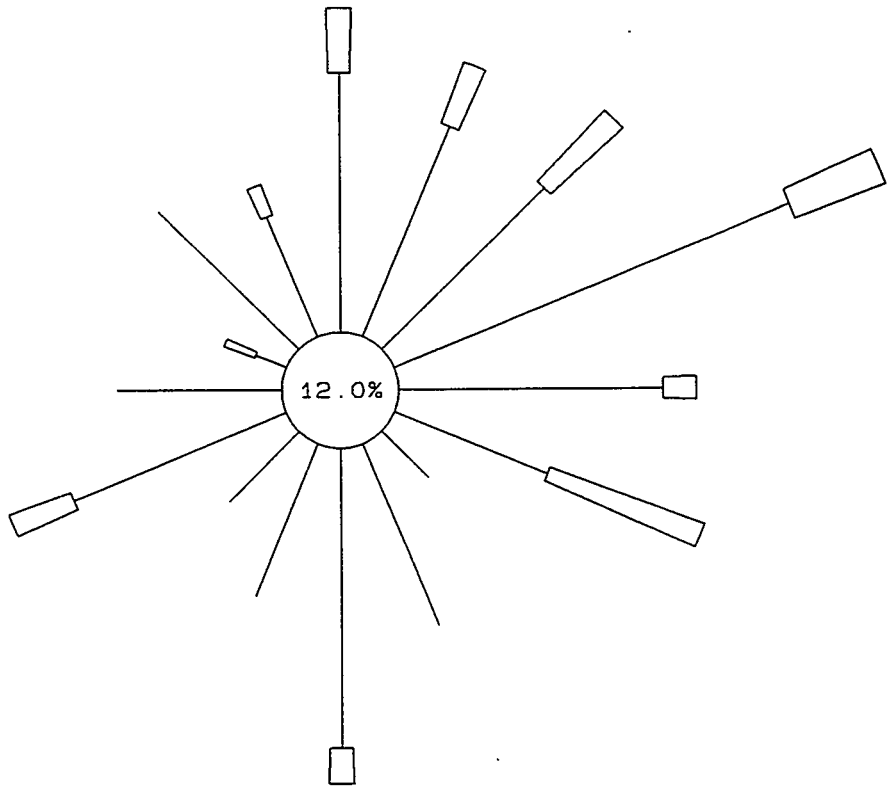


WIND SPEED CLASSES (MPS)

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

90.4% DATA RECOVERED
OF WHICH 19.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
10/ 1/1996 - 10/31/1996
0 - 2400

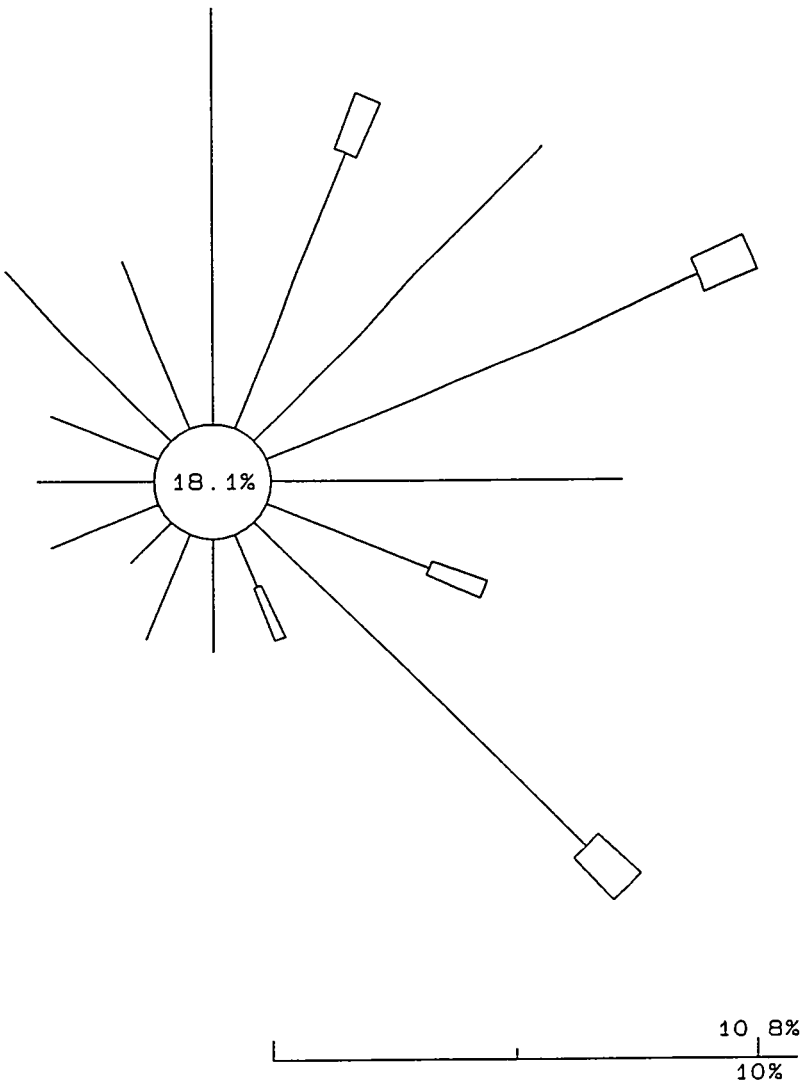


WIND SPEED CLASSES (MPS)

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

84.1% DATA RECOVERED
OF WHICH 21.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
11/ 1/1996 - 11/30/1996
0 - 2400



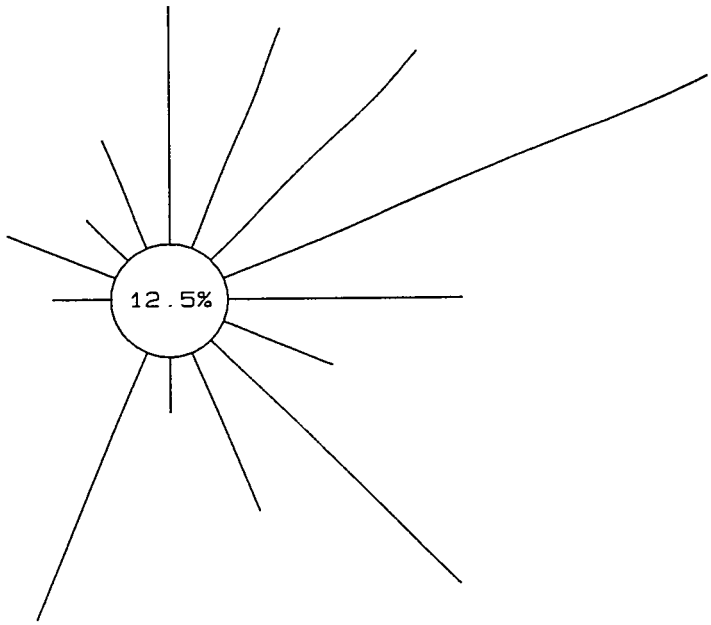
WIND SPEED CLASSES (MPS)

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

75.1% DATA RECOVERED
OF WHICH 15.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
2 METER HEIGHT - Total Hours
12/ 1/1996 - 12/31/1996
0 - 2400

N



16.1%
10%

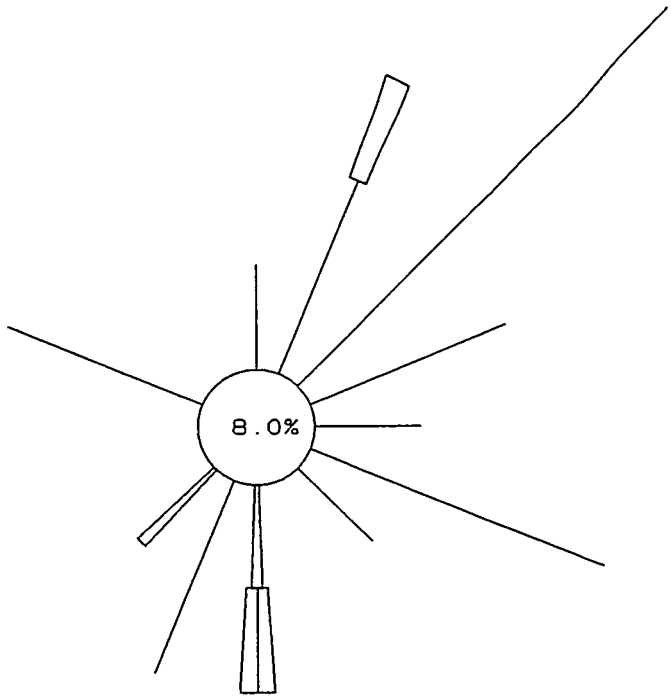
WIND SPEED CLASSES (MPS)

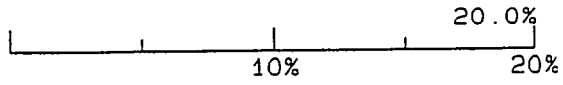
CALM	0	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

58.7% DATA RECOVERED
OF WHICH 12.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
1/ 1/1996 - 1/31/1996
0 - 2400

N





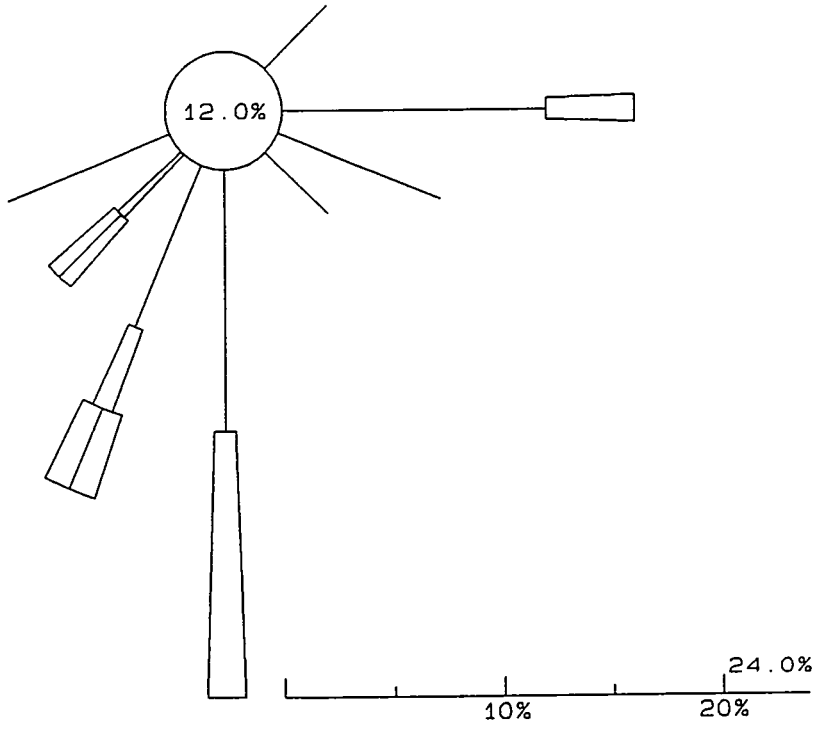
WIND SPEED CLASSES (MPS)

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

74.2% DATA RECOVERED
OF WHICH 4.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
2/ 1/1996 - 2/29/1996
0 - 2400

N

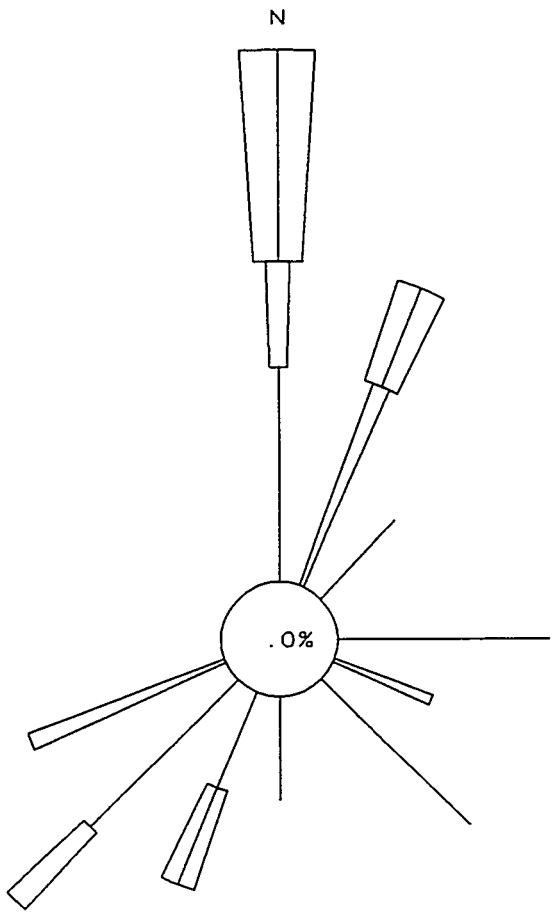


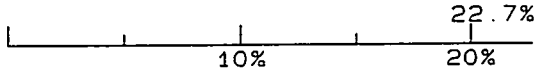
WIND SPEED CLASSES (MPS)

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

84.9% DATA RECOVERED
OF WHICH 4.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
3/ 1/1996 - 3/31/1996
0 - 2400



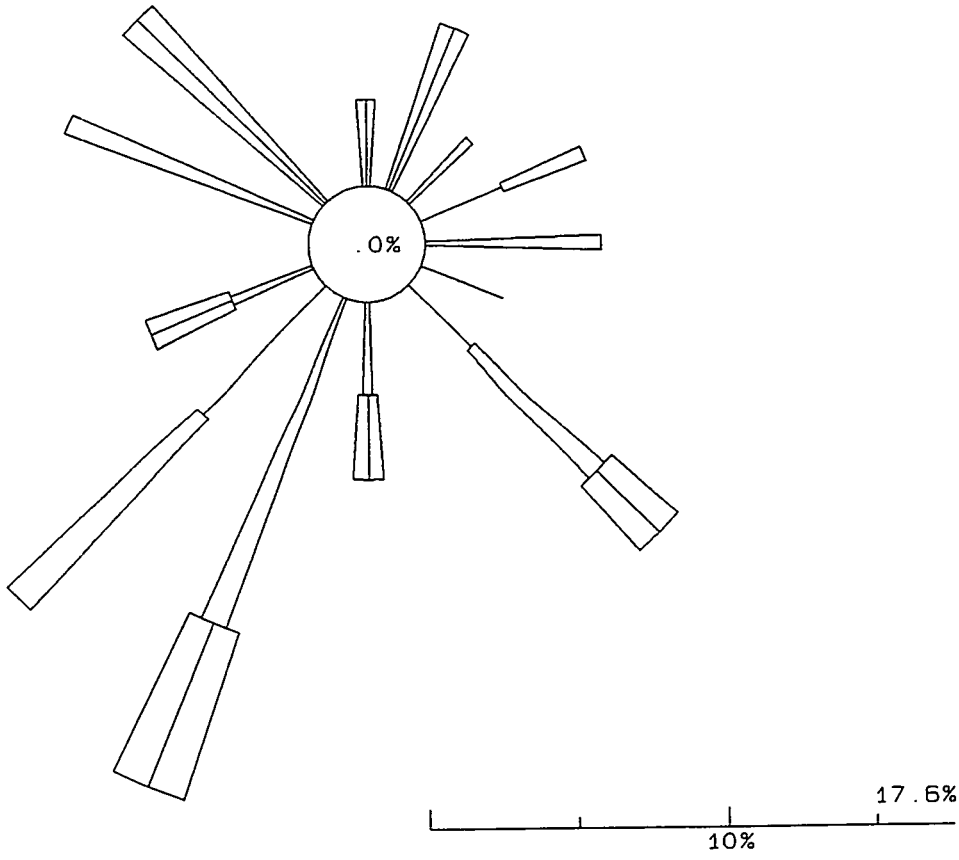


WIND SPEED CLASSES (MPS)

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

82.7% DATA RECOVERED
OF WHICH 3.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
4/ 1/1996 - 4/30/1996
0 - 2400

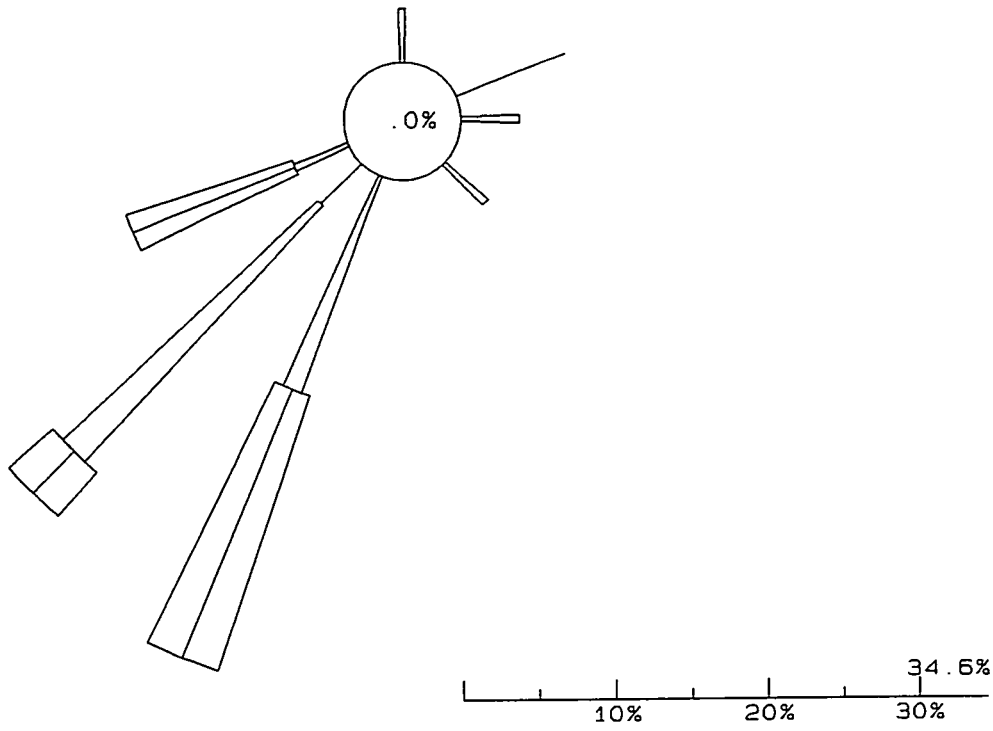


WIND SPEED CLASSES (MPS)

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

96.8% DATA RECOVERED
OF WHICH 4.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
5/ 1/1996 - 5/31/1996
0 - 2400



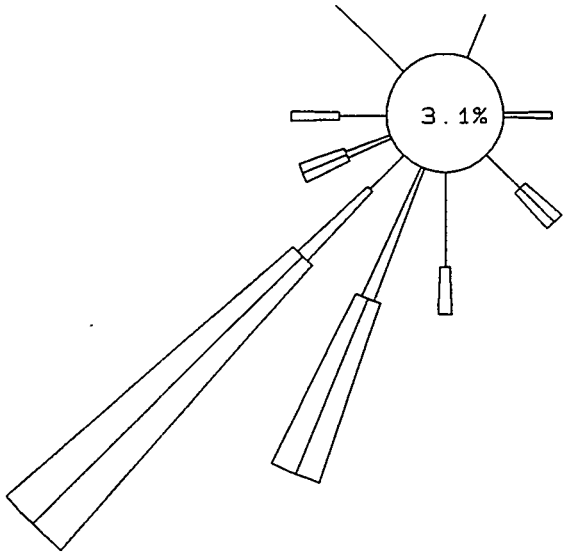
WIND SPEED CLASSES (MPS)

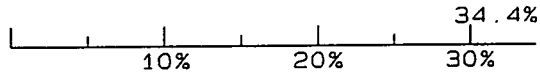
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 3.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
6/ 1/1996 - 6/30/1996
0 - 2400

N





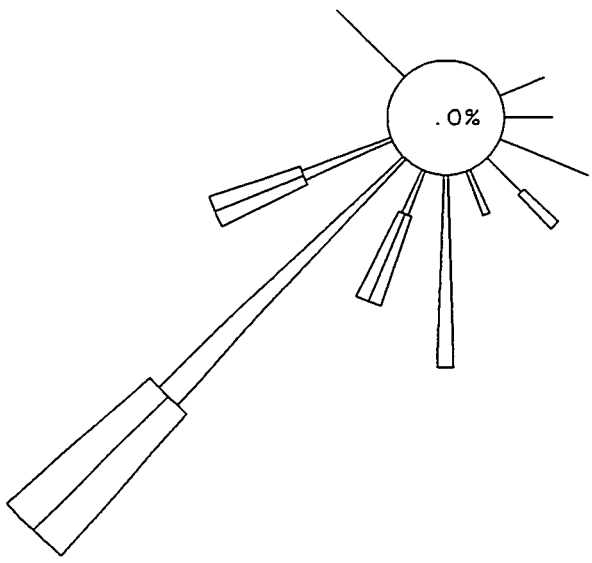
WIND SPEED CLASSES (MPS)

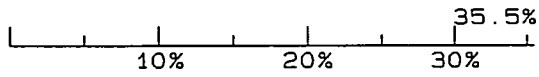
CALM	0	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 4.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
7/ 1/1996 - 7/31/1996
0 - 2400

N





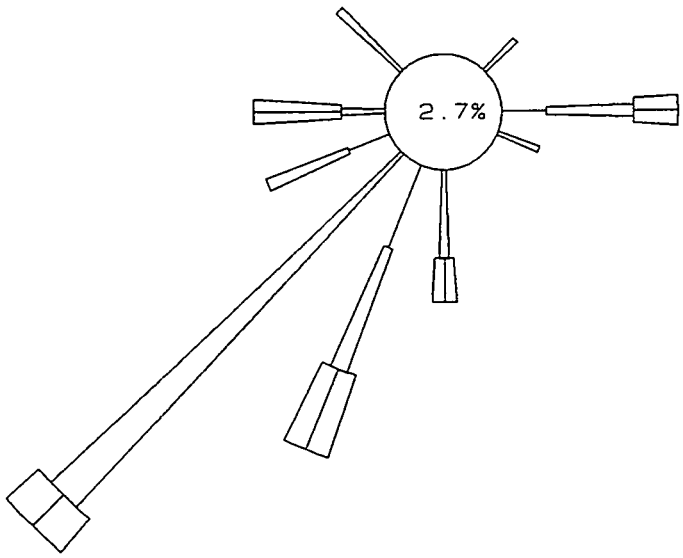
WIND SPEED CLASSES (MPS)

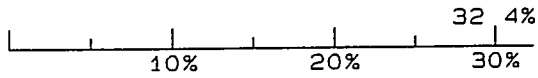
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 4.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
8/ 1/1996 - 8/31/1996
0 - 2400

N



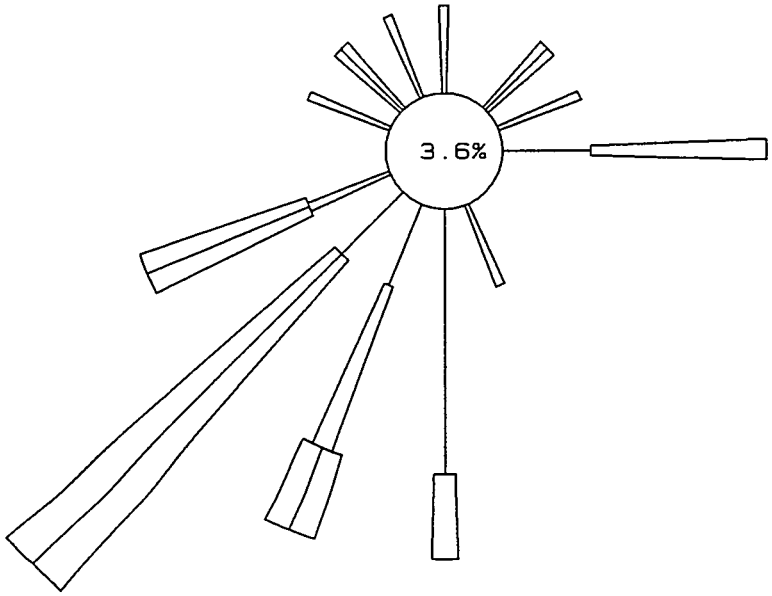


WIND SPEED CLASSES (MPS)

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

98.4% DATA RECOVERED
OF WHICH 5.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
9/ 1/1996 - 9/30/1996
0 - 2400

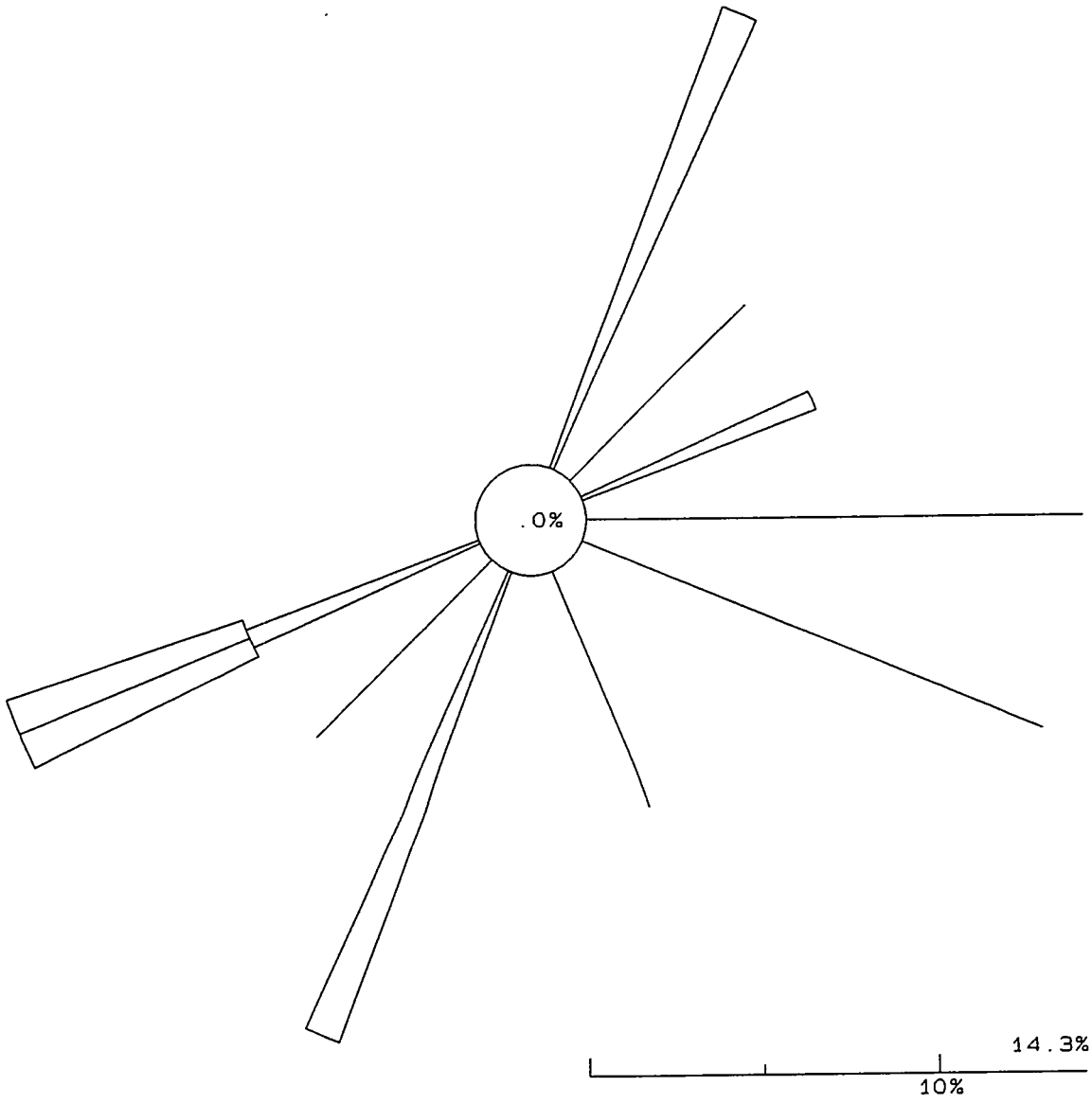


WIND SPEED CLASSES (MPS)

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

90.4% DATA RECOVERED
OF WHICH 4.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
10/ 1/1996 - 10/31/1996
0 - 2400

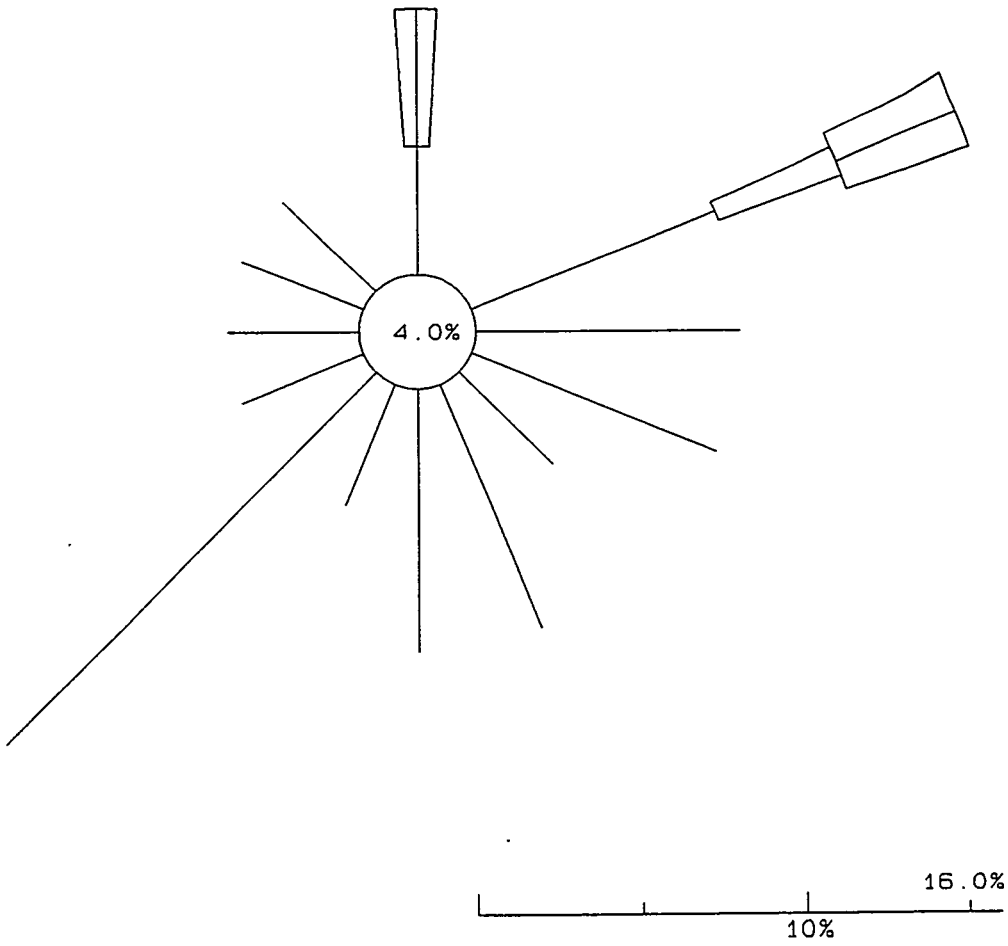


WIND SPEED CLASSES (MPS)

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

84.1% DATA RECOVERED
OF WHICH 2.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
11/ 1/1996 - 11/30/1996
0 - 2400

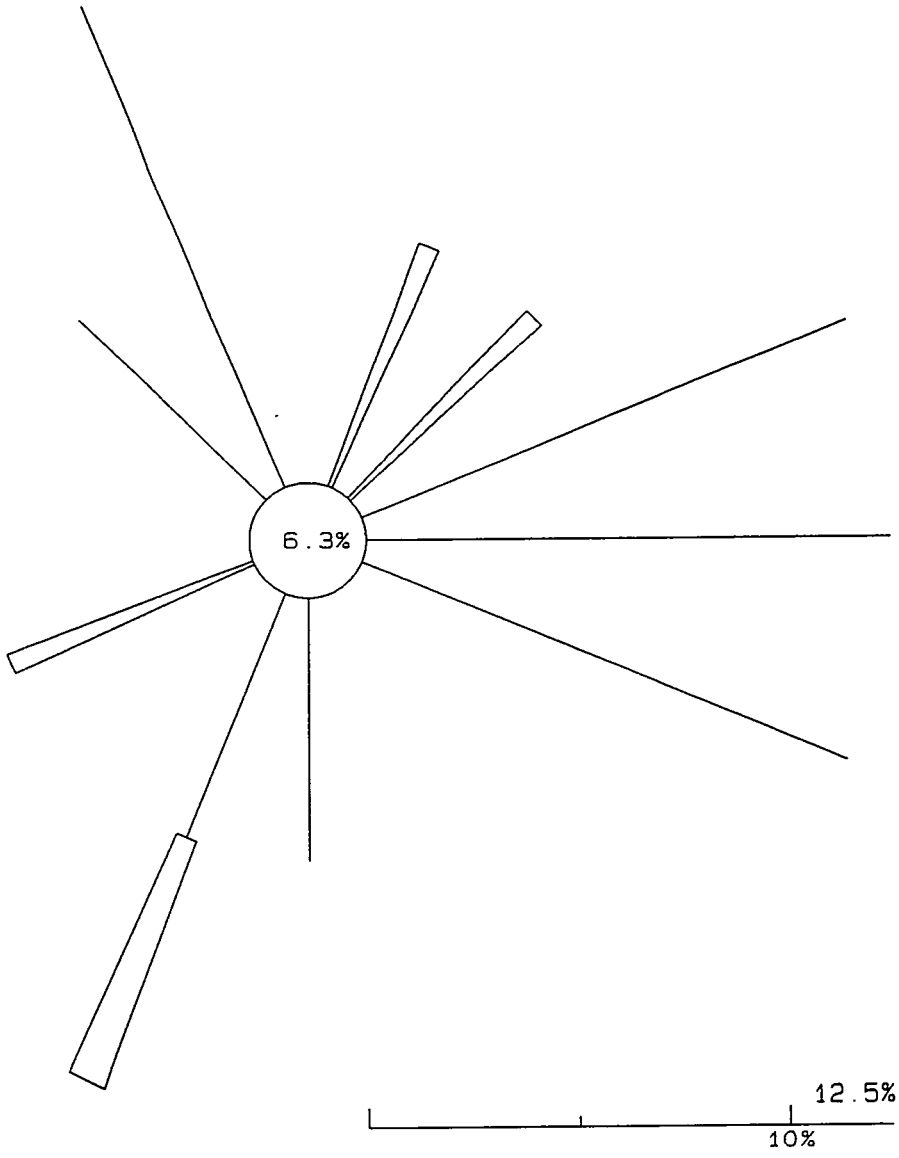


WIND SPEED CLASSES (MPS)

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

75.1% DATA RECOVERED
OF WHICH 4.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
2 METER HEIGHT - Total Hours
12/ 1/1996 - 12/31/1996
0 - 2400

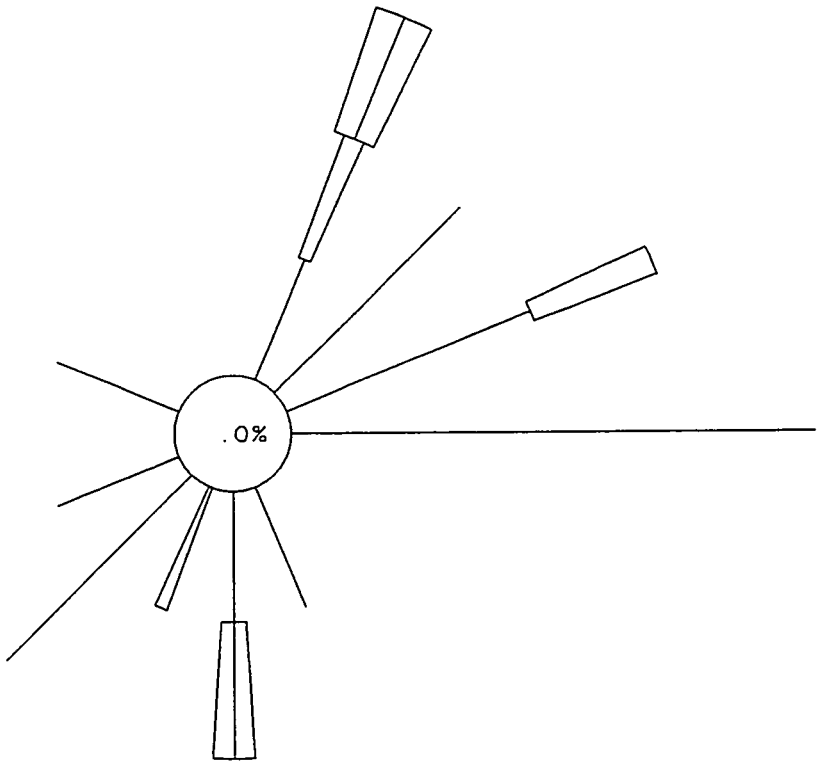


WIND SPEED CLASSES (MPS)

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

58.7% DATA RECOVERED
OF WHICH 3.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
1/ 1/1996 - 1/31/1996
0 - 2400

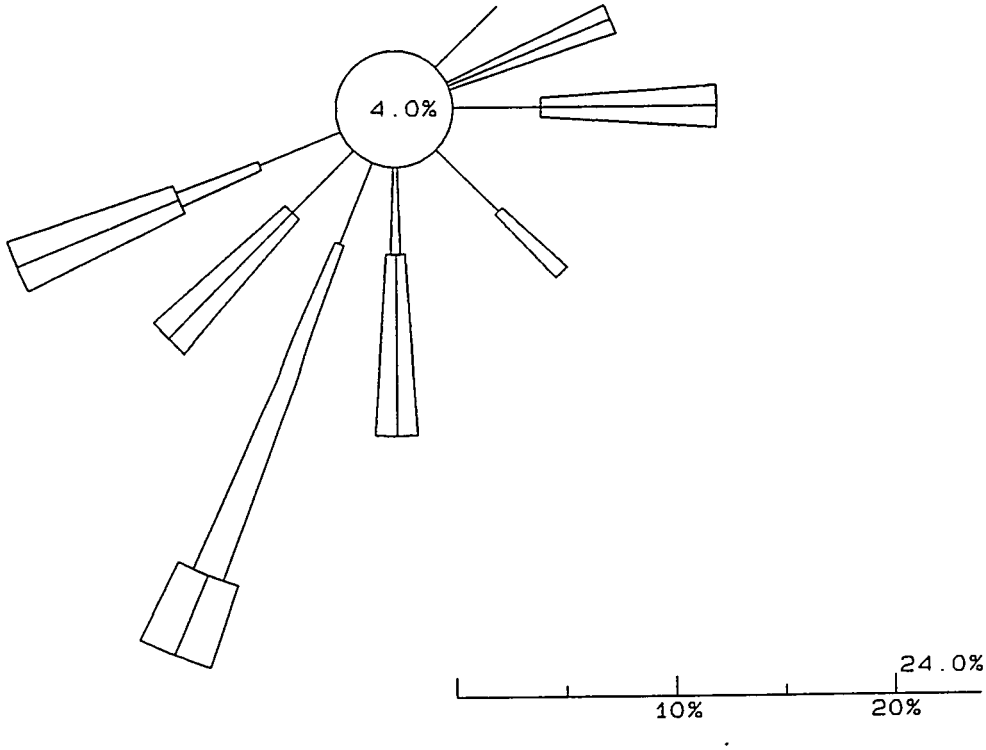


WIND SPEED CLASSES (MPS)

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

74.2% DATA RECOVERED.
OF WHICH 3.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
2/ 1/1996 - 2/29/1996
0 - 2400

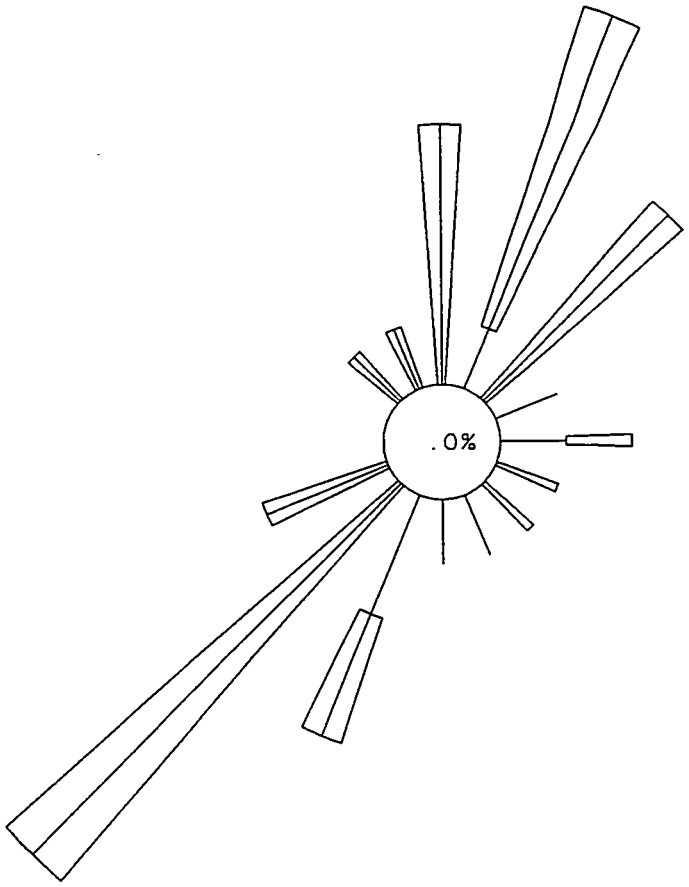


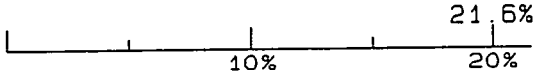
WIND SPEED CLASSES (MPS)

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

84.9% DATA RECOVERED
OF WHICH 4.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
3/ 1/1996 - 3/31/1996
0 - 2400



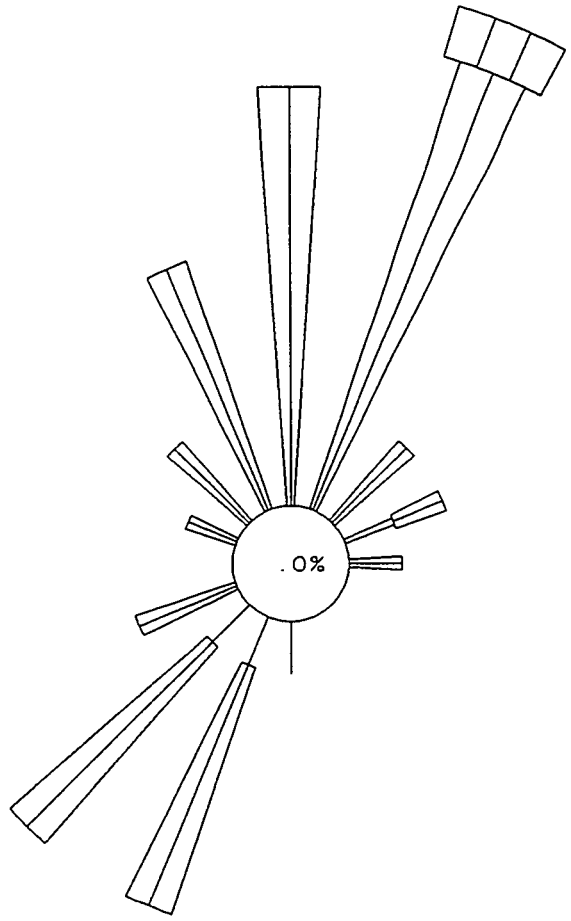


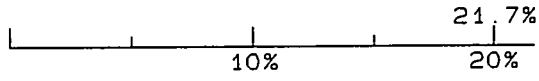
WIND SPEED CLASSES (MPS)

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

82.7% DATA RECOVERED
OF WHICH 6.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
4/ 1/1996 - 4/30/1996
0 - 2400





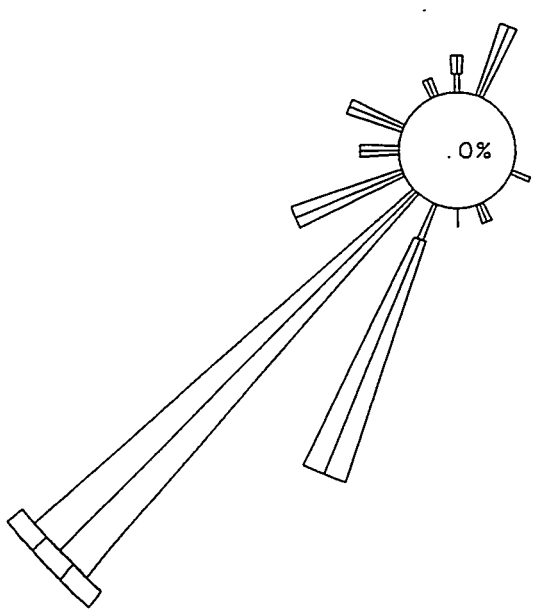
WIND SPEED CLASSES (MPS)

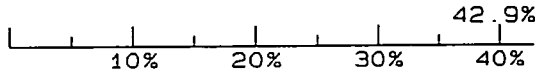
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.8% DATA RECOVERED
OF WHICH 6.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
5/ 1/1996 - 5/31/1996
0 - 2400

N





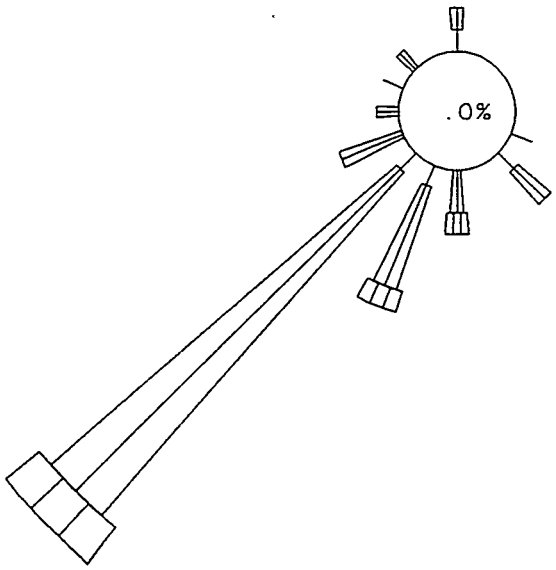
WIND SPEED CLASSES (MPS)

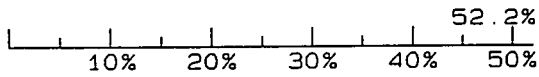
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 8.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
6/ 1/1996 - 6/30/1996
0 - 2400

N





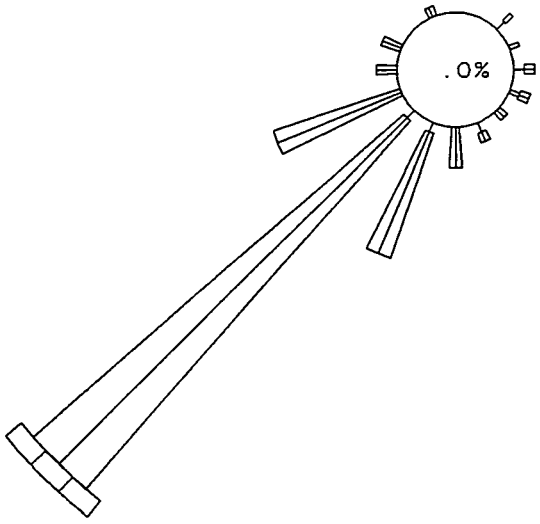
WIND SPEED CLASSES (MPS)

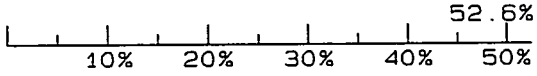
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	00	3.3< WS <= 5.4
4	000	5.4< WS <= 8.5
5	0000	8.5< WS <=10.8
6	00000	10.8< WS

100.0% DATA RECOVERED
OF WHICH 6.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
7/ 1/1996 - 7/31/1996
0 - 2400

N





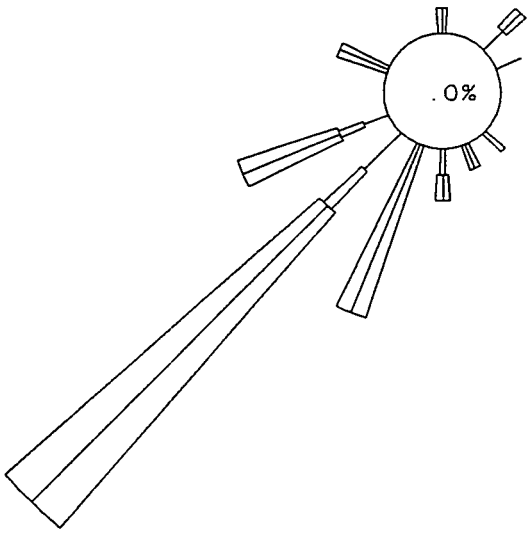
WIND SPEED CLASSES (MPS)

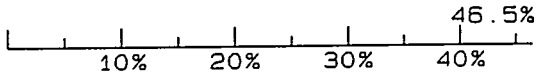
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 13.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
8/ 1/1996 - 8/31/1996
0 - 2400

N



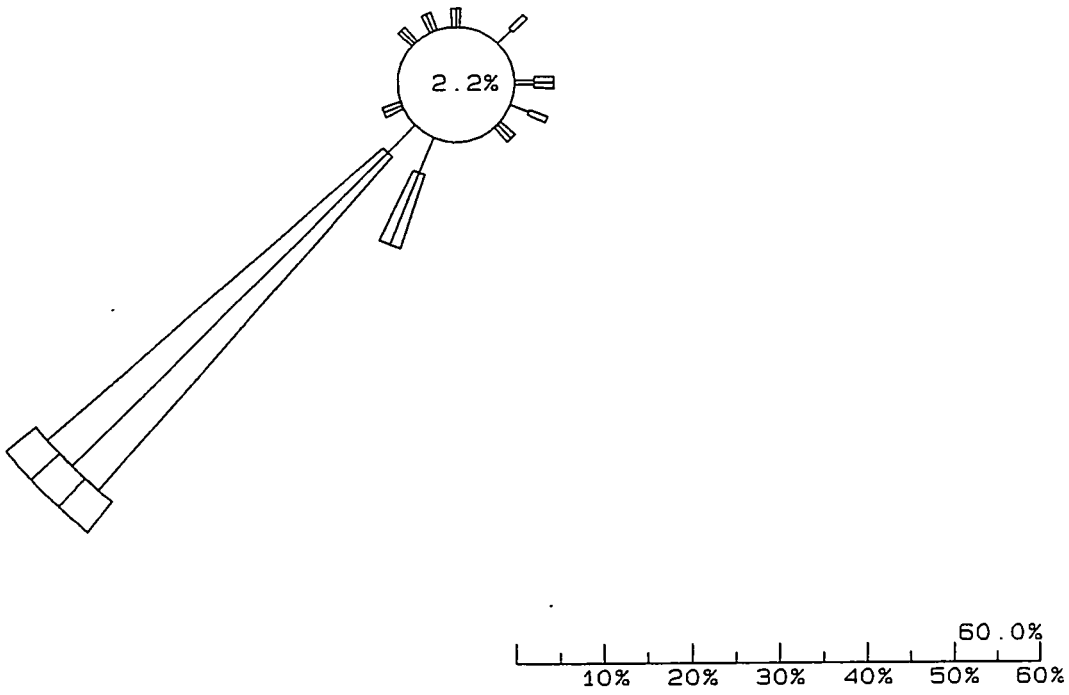


WIND SPEED CLASSES (MPS)

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

98.4% DATA RECOVERED
OF WHICH 5.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
9/ 1/1996 - 9/30/1996
0 - 2400



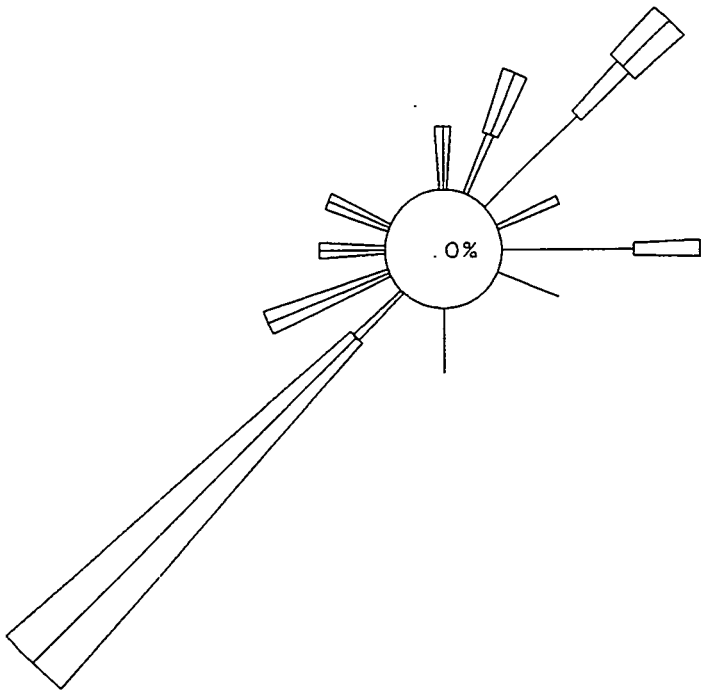
WIND SPEED CLASSES (MPS)

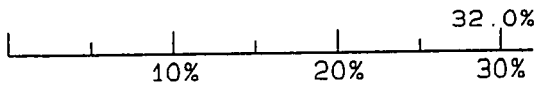
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

90.4% DATA RECOVERED
OF WHICH 6.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
10/ 1/1996 - 10/31/1996
0 - 2400

N



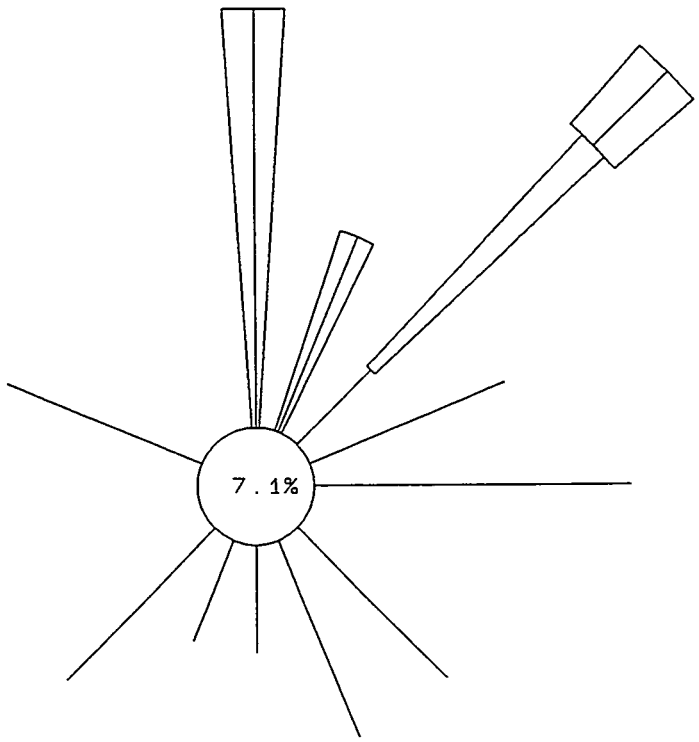


WIND SPEED CLASSES (MPS)

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

84.1% DATA RECOVERED
OF WHICH 4.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
11/ 1/1996 - 11/30/1996
0 - 2400

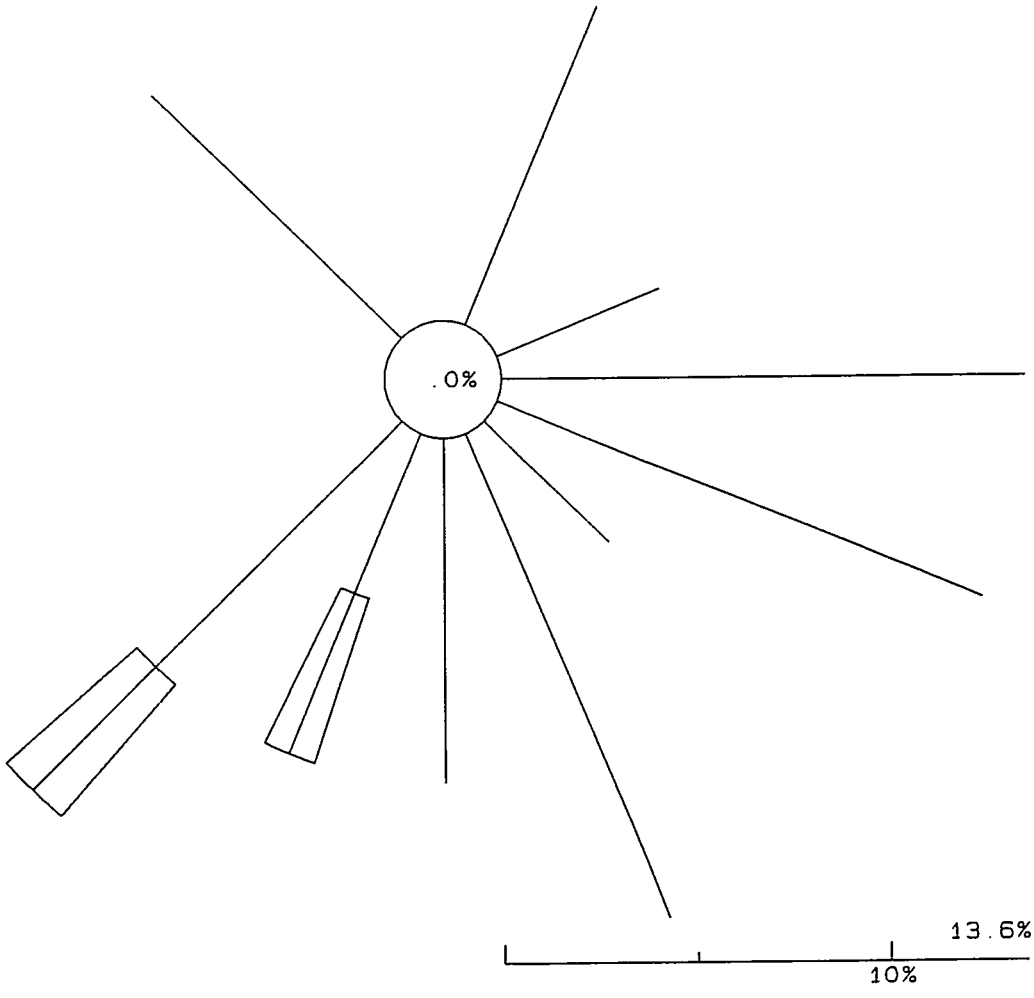


WIND SPEED CLASSES (MPS)

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

75.1% DATA RECOVERED
OF WHICH 5.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
2 METER HEIGHT - Total Hours
12/ 1/1996 - 12/31/1996
0 - 2400

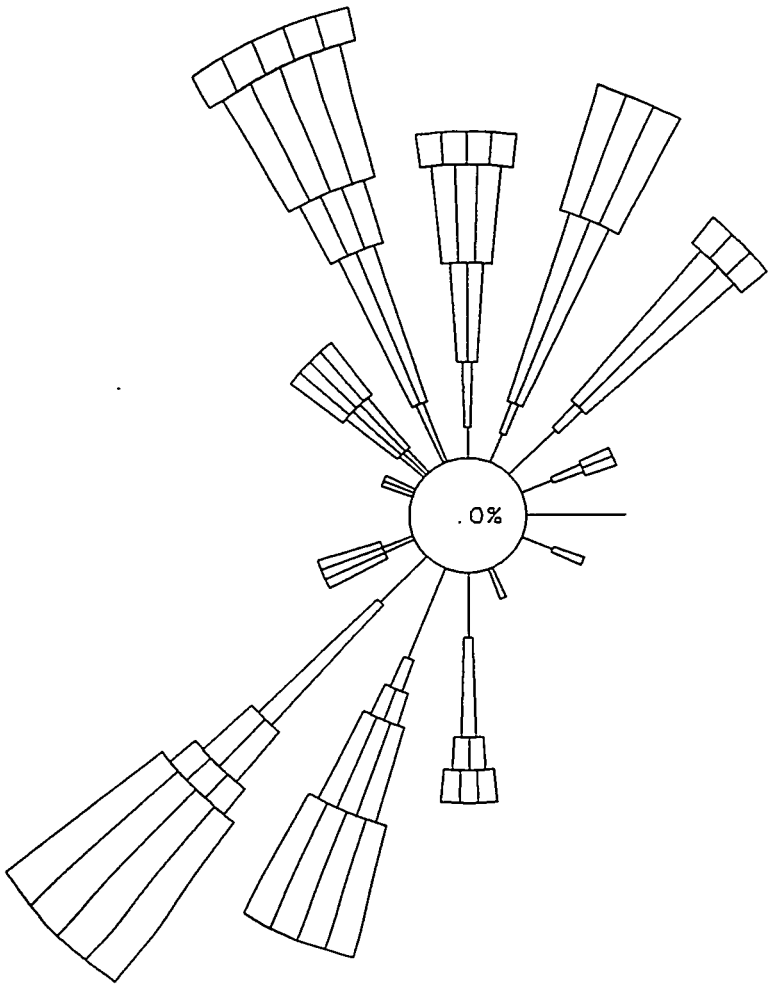


WIND SPEED CLASSES (MPS)

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

58.7% DATA RECOVERED
OF WHICH 5.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
1/ 1/1996 - 1/31/1996
0 - 2400

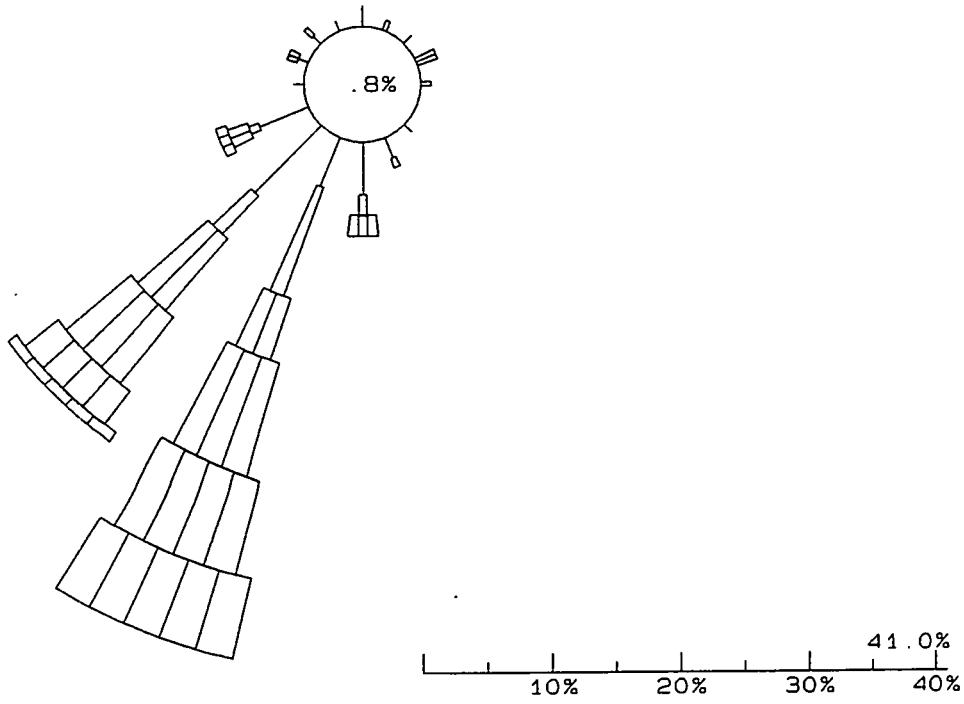


WIND SPEED CLASSES (MPS)

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

74.2% DATA RECOVERED
OF WHICH 17.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
2/ 1/1996 - 2/29/1996
0 - 2400

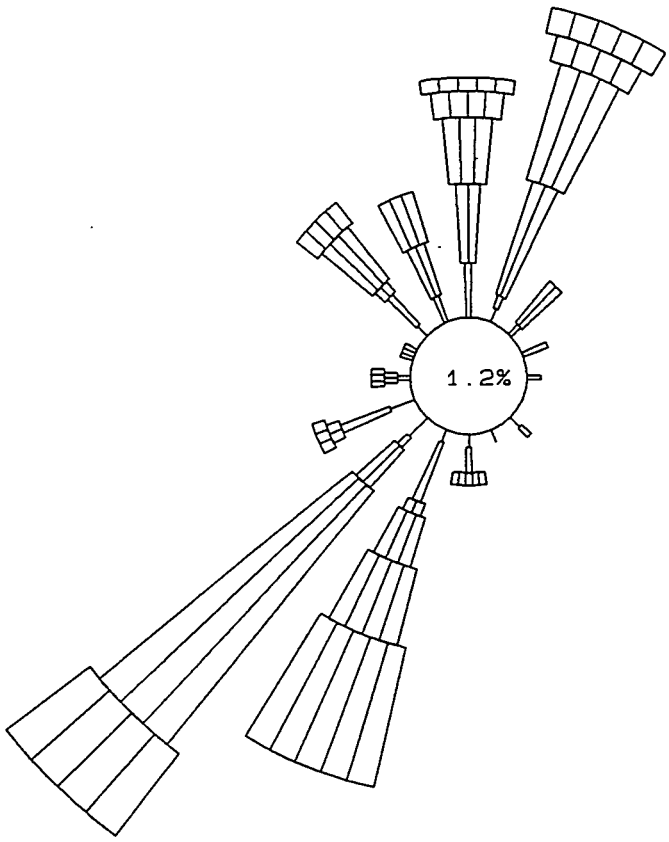


WIND SPEED CLASSES (MPS)

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

84.9% DATA RECOVERED
OF WHICH 20.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
3/ 1/1996 - 3/31/1996
0 - 2400

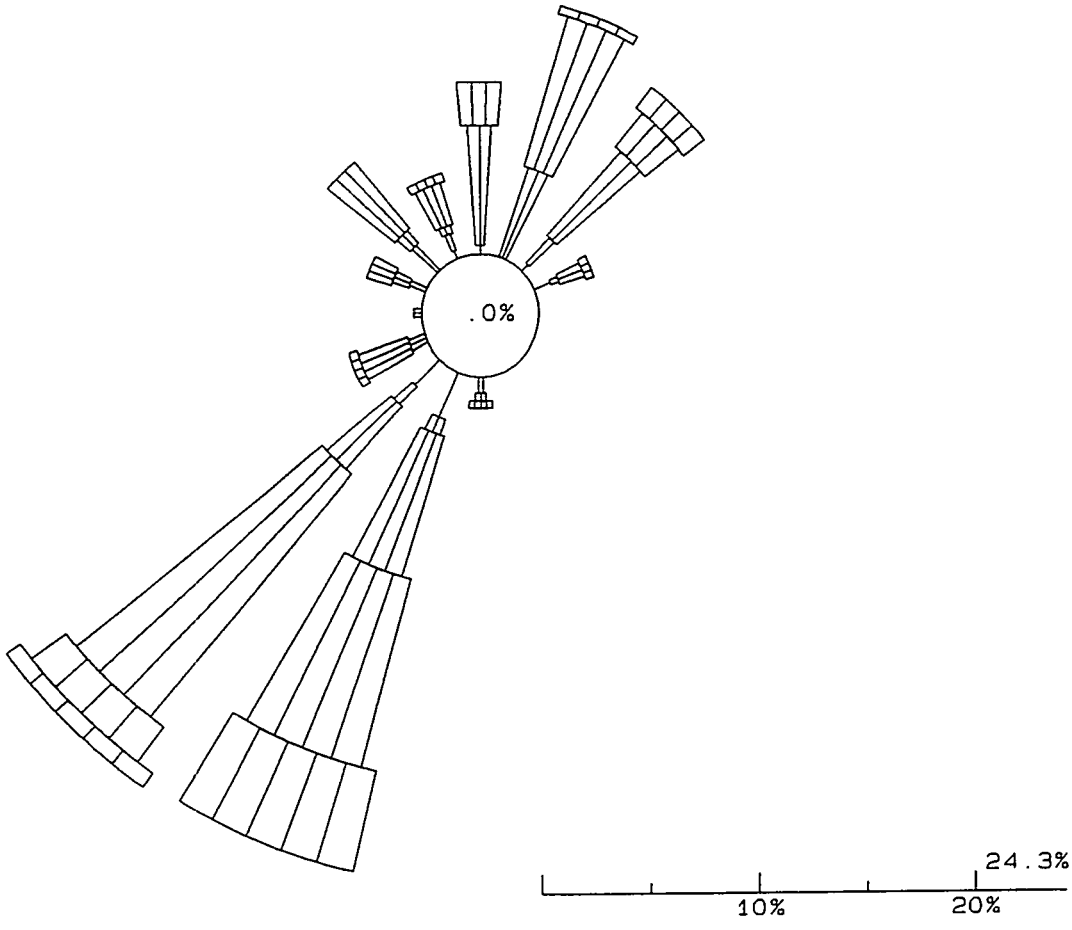


WIND SPEED CLASSES (MPS)

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

82.7% DATA RECOVERED
OF WHICH 26.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
4/ 1/1996 - 4/30/1996
0 - 2400

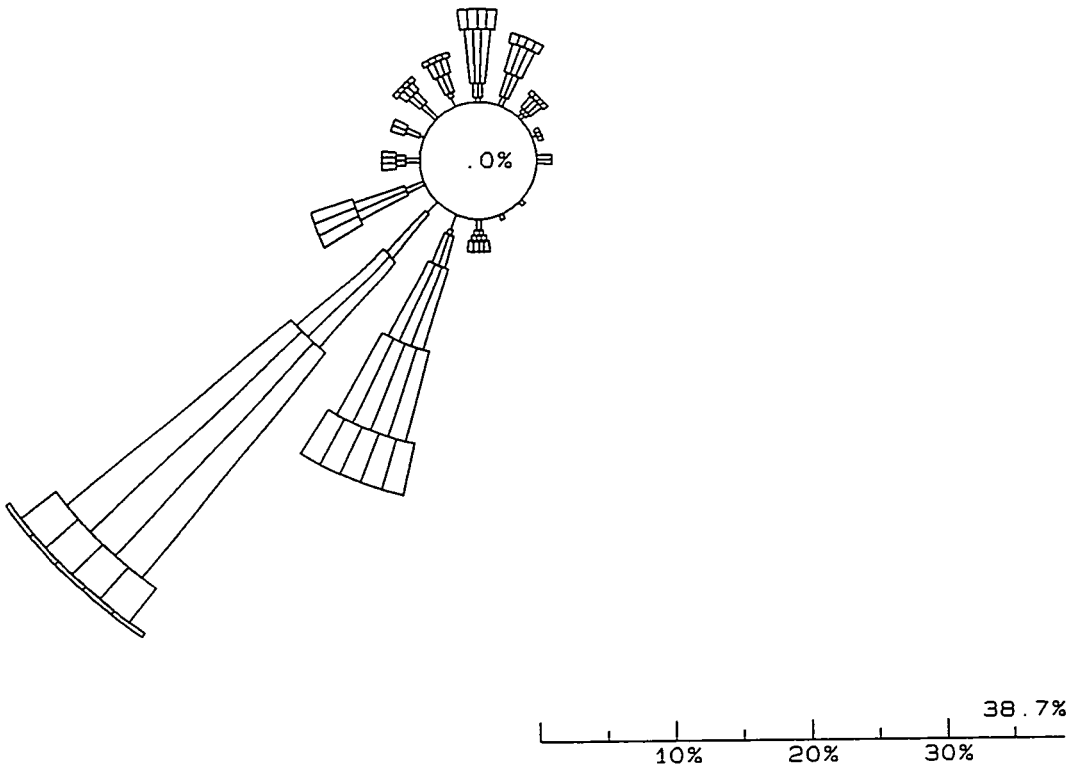


WIND SPEED CLASSES (MPS)

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

96.8% DATA RECOVERED
OF WHICH 36.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
5/ 1/1996 - 5/31/1996
0 - 2400



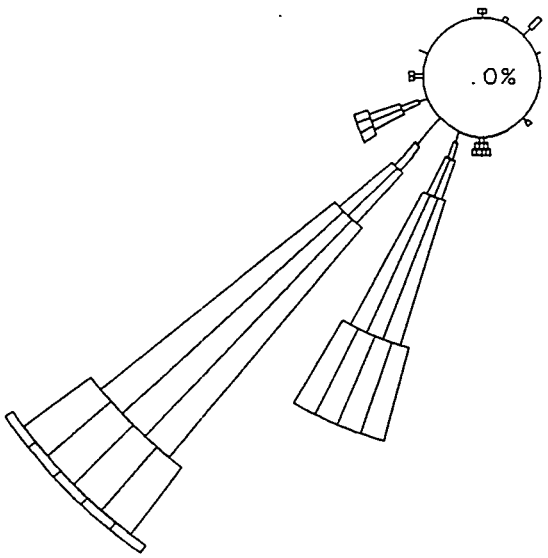
WIND SPEED CLASSES (MPS)

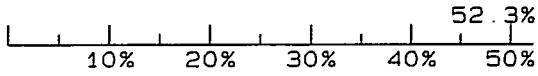
CALM	o	WS <= .5
1	!	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 37.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
6/ 1/1996 - 6/30/1996
0 - 2400

N





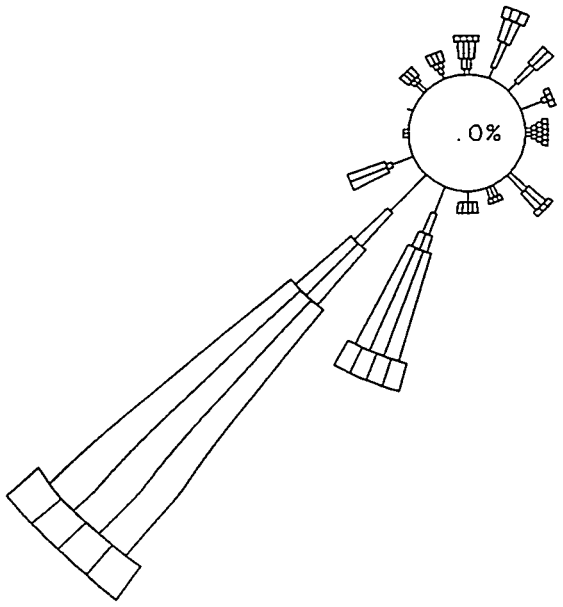
WIND SPEED CLASSES (MPS)

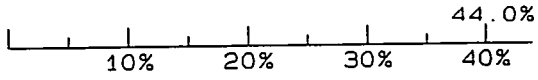
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 30.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
7/ 1/1996 - 7/31/1996
0 - 2400

N





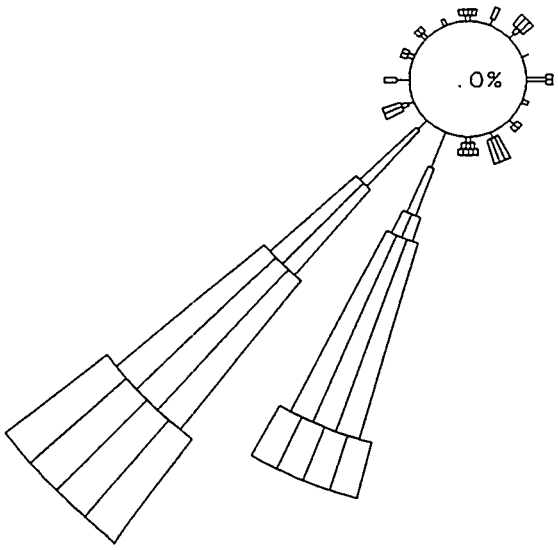
WIND SPEED CLASSES (MPS)

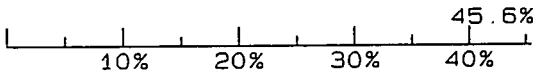
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 28.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
8/ 1/1996 - 8/31/1996
0 - 2400

N





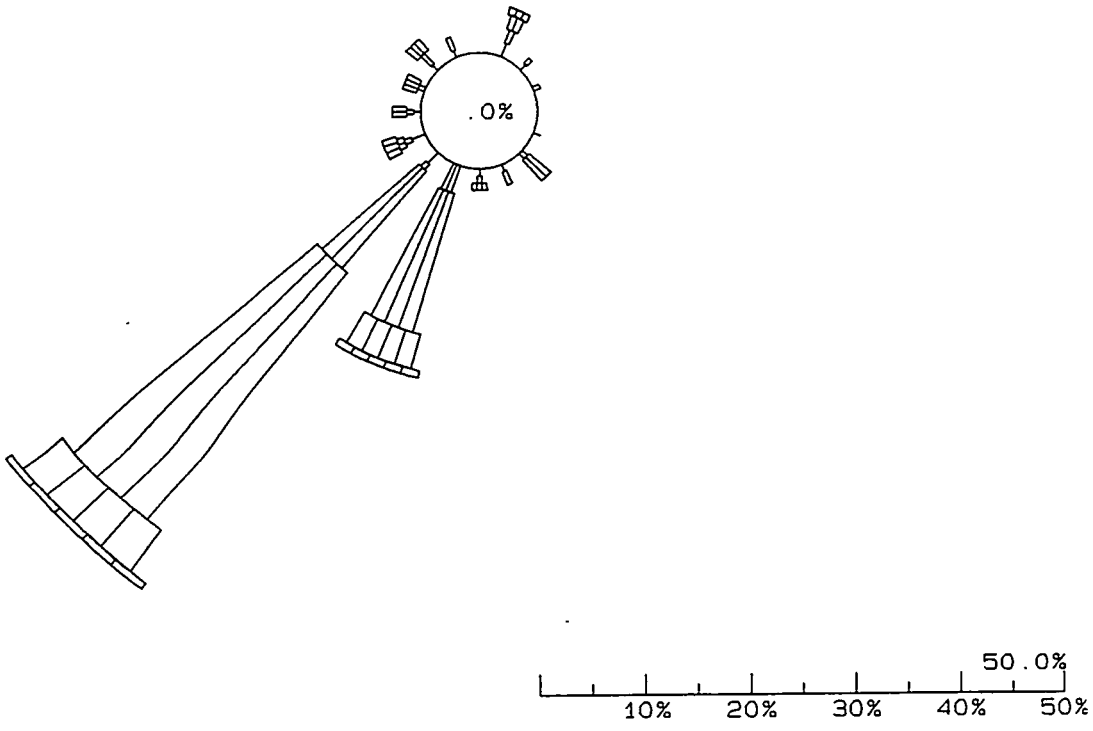
WIND SPEED CLASSES (MPS)

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

98.4% DATA RECOVERED
OF WHICH 24.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
9/ 1/1996 - 9/30/1996
0 - 2400

N

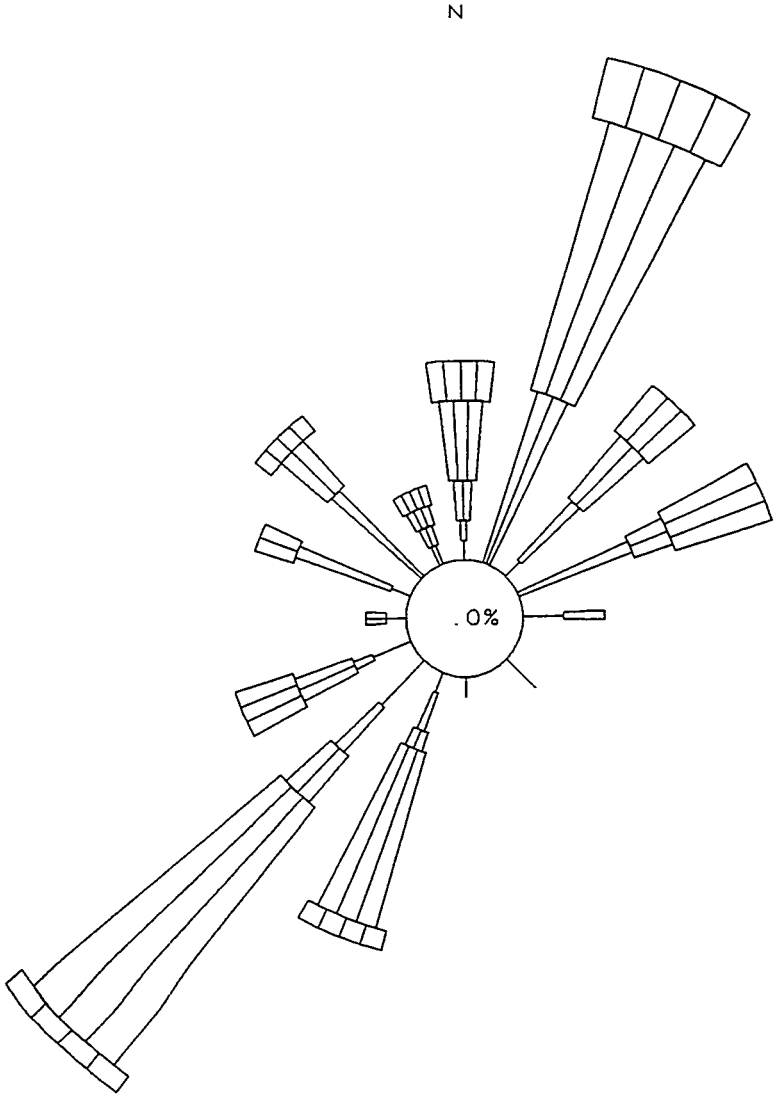


WIND SPEED CLASSES (MPS)

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

90.4% DATA RECOVERED
OF WHICH 22.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
10/ 1/1996 - 10/31/1996
0 - 2400

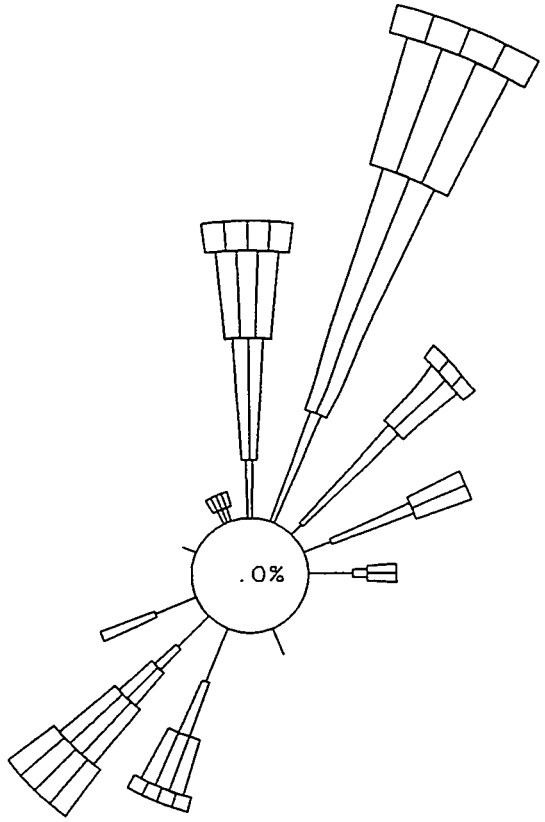


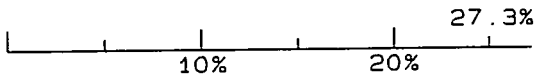
WIND SPEED CLASSES (MPS)

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

84.1% DATA RECOVERED
OF WHICH 22.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
11/ 1/1996 - 11/30/1996
0 - 2400





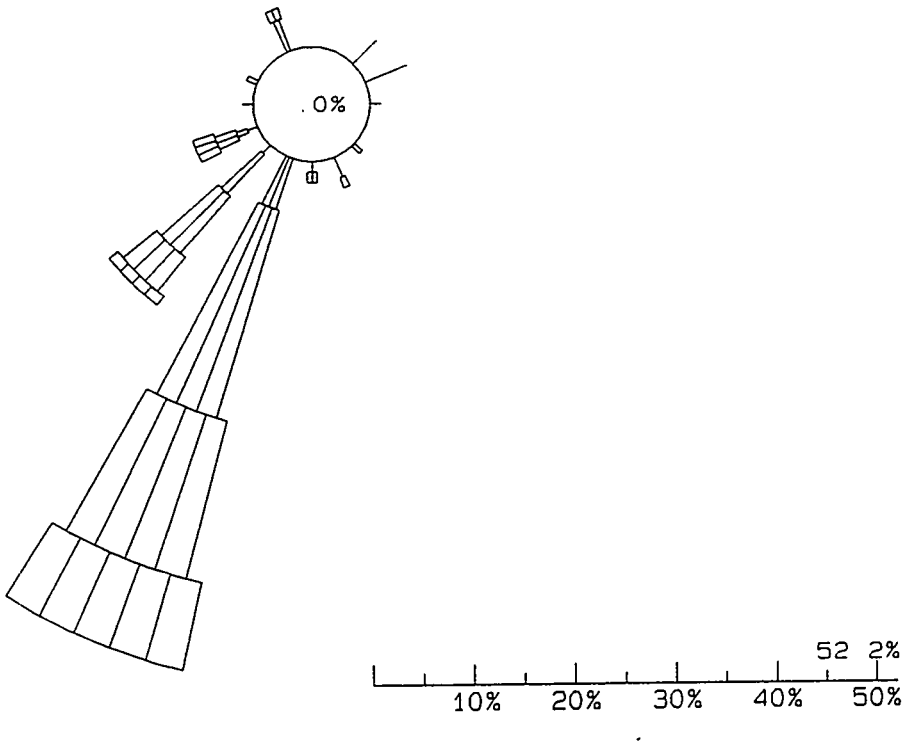
WIND SPEED CLASSES (MPS)

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

75.1% DATA RECOVERED
OF WHICH 24.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
2 METER HEIGHT - Total Hours
12/ 1/1996 - 12/31/1996
0 - 2400

N



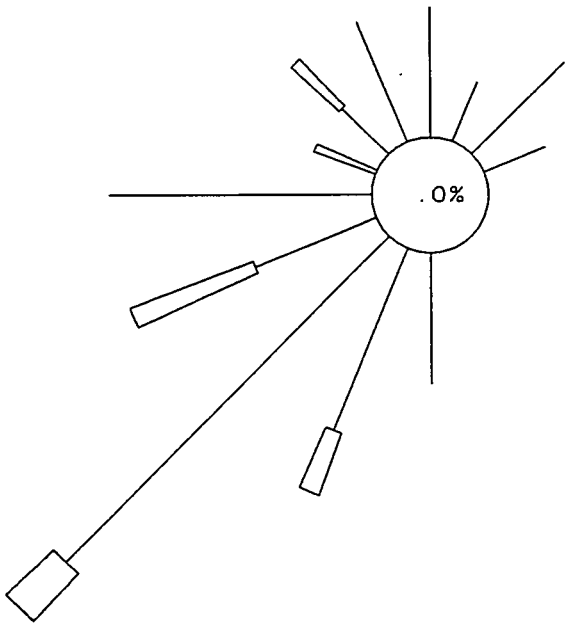
WIND SPEED CLASSES (MPS)

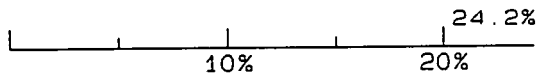
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	0	3.3< WS <= 5.4
4	0	5.4< WS <= 8.5
5	0	8.5< WS <=10 8
6	0	10.8< WS

58.7% DATA RECOVERED
OF WHICH 21.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
1/ 1/1996 - 1/31/1996
0 - 2400

N



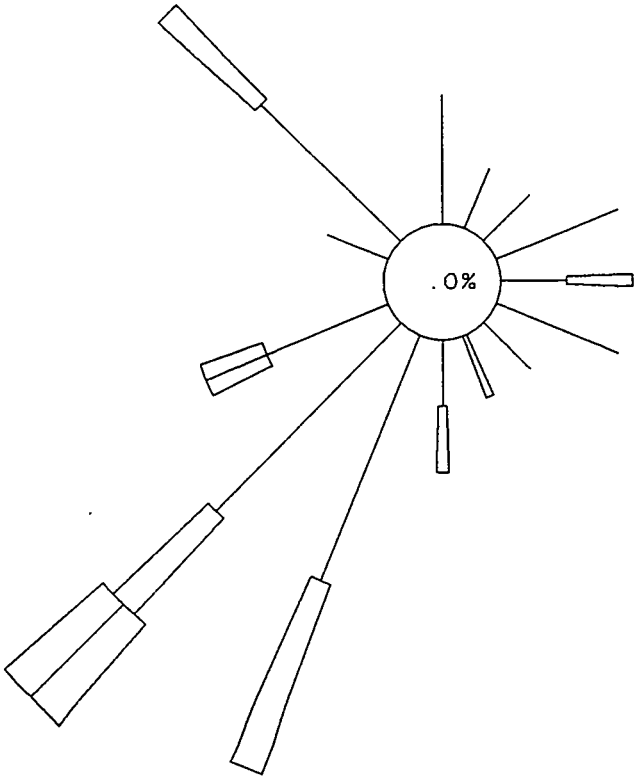


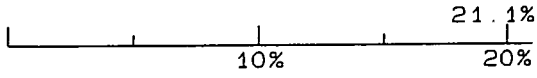
WIND SPEED CLASSES (MPS)

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

74.2% DATA RECOVERED
OF WHICH 6.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
2/ 1/1996 - 2/29/1996
0 - 2400



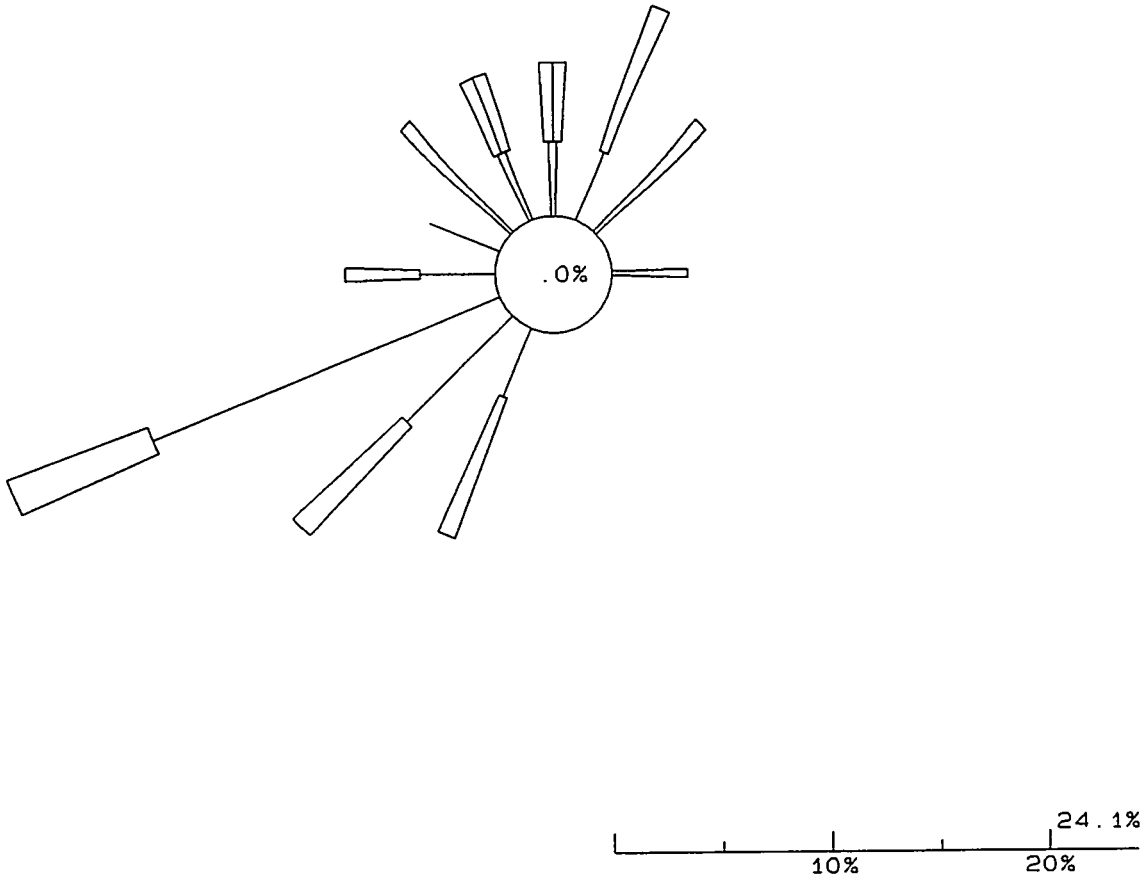


WIND SPEED CLASSES (MPS)

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

84.9% DATA RECOVERED
OF WHICH 6.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
3/ 1/1996 - 3/31/1996
0 - 2400

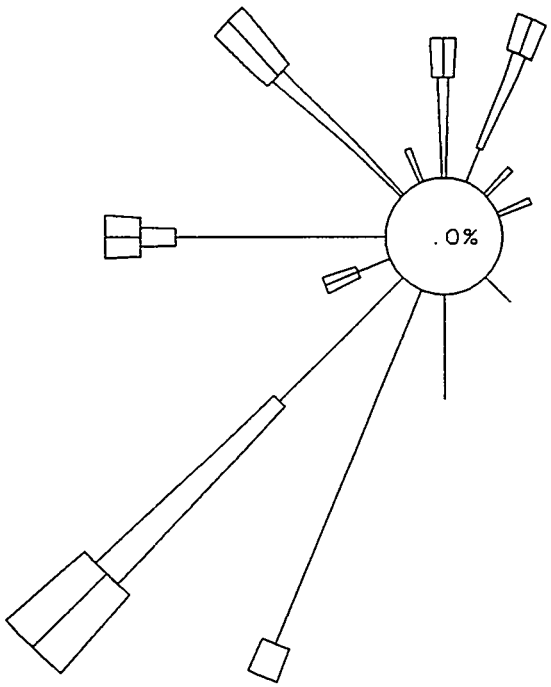


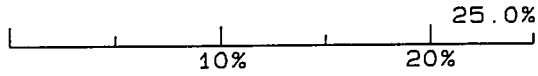
WIND SPEED CLASSES (MPS)

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

82.7% DATA RECOVERED
OF WHICH 4.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
4/ 1/1996 - 4/30/1996
0 - 2400



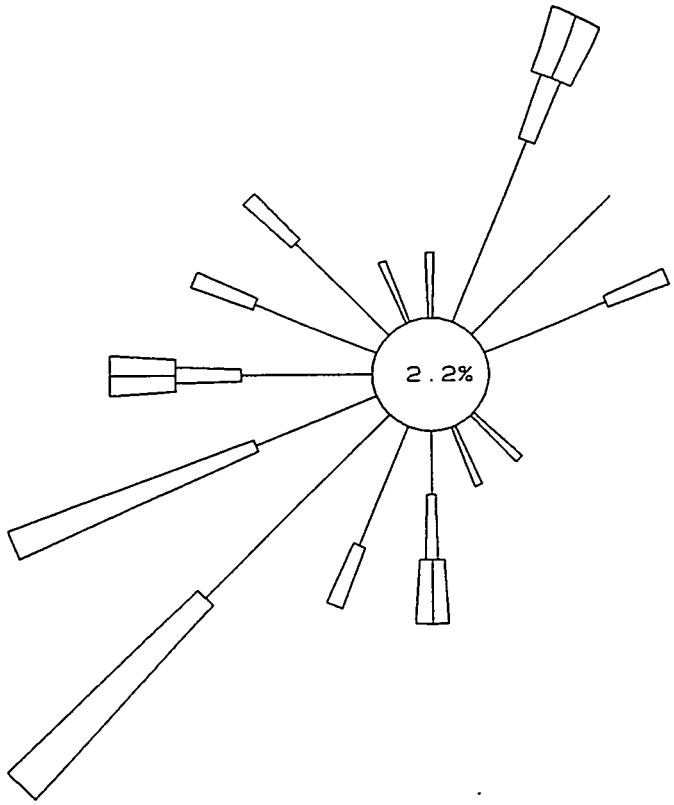


WIND SPEED CLASSES (MPS)

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

96.8% DATA RECOVERED
OF WHICH 8.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
5/ 1/1996 - 5/31/1996
0 - 2400



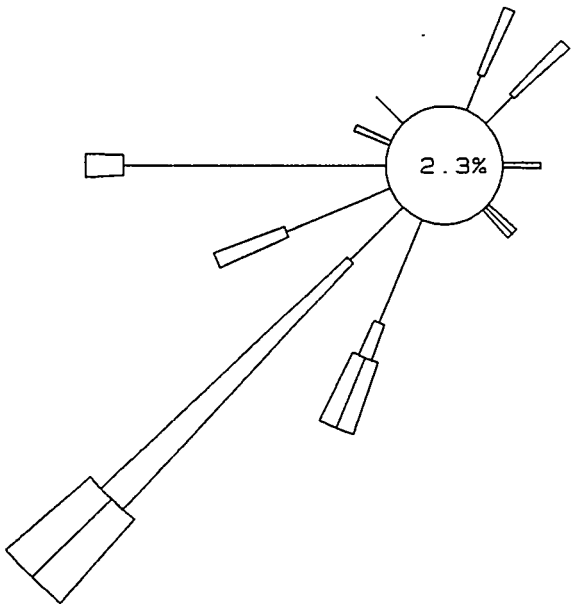
WIND SPEED CLASSES (MPS)

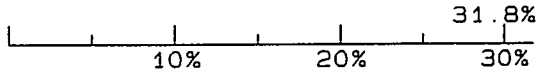
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10 8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 6.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
6/ 1/1996 - 6/30/1996
0 - 2400

N



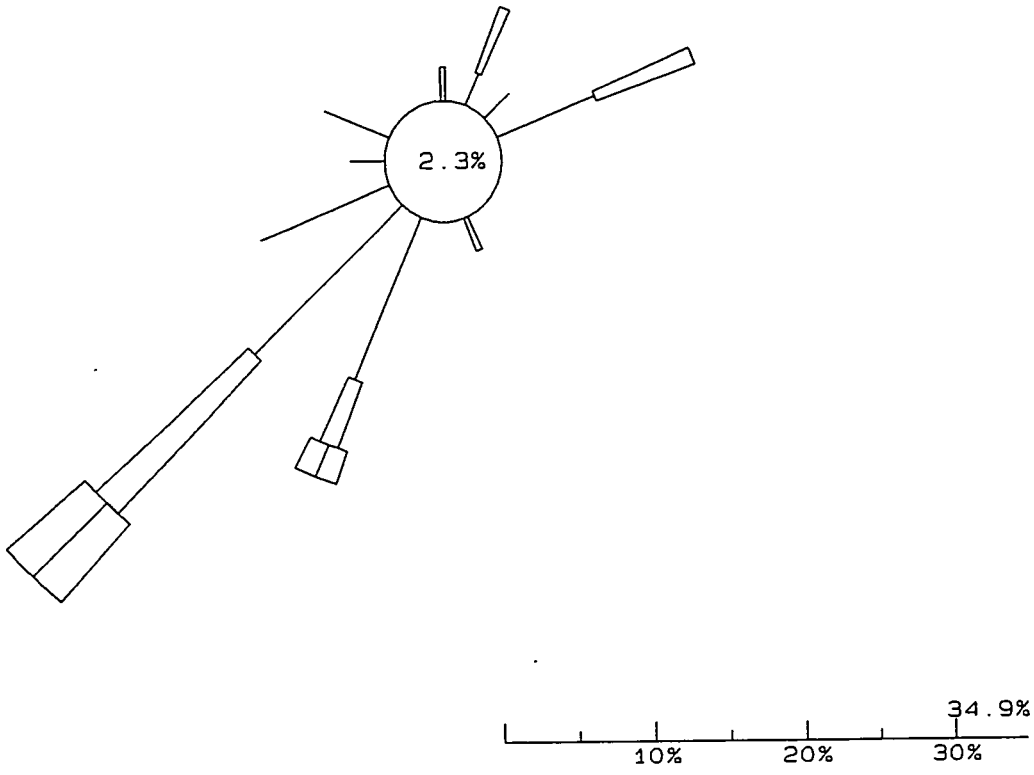


WIND SPEED CLASSES (MPS)

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 6.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
7/ 1/1996 - 7/31/1996
0 - 2400

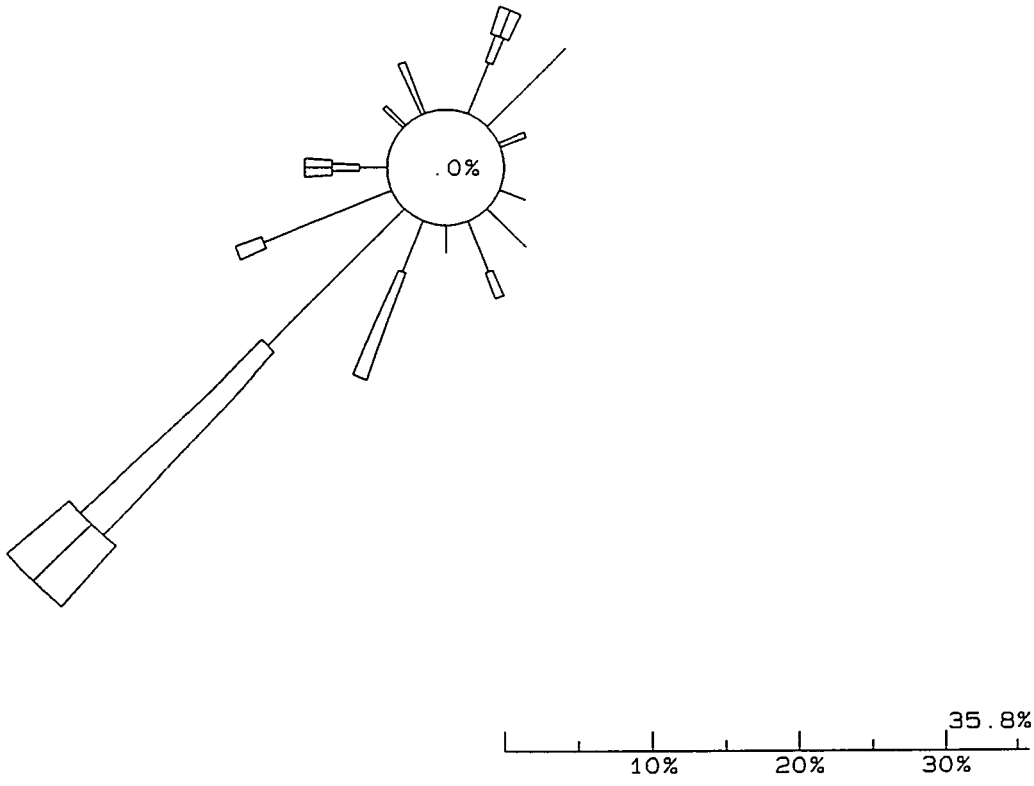


WIND SPEED CLASSES (MPS)

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 5.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
8/ 1/1996 - 8/31/1996
0 - 2400



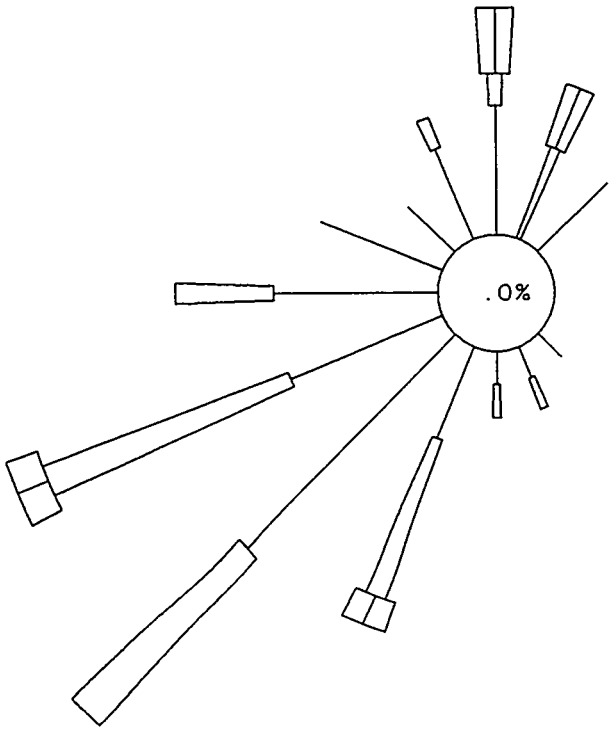
WIND SPEED CLASSES (MPS)

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

98.4% DATA RECOVERED
OF WHICH 7.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
9/ 1/1996 - 9/30/1996
0 - 2400

N



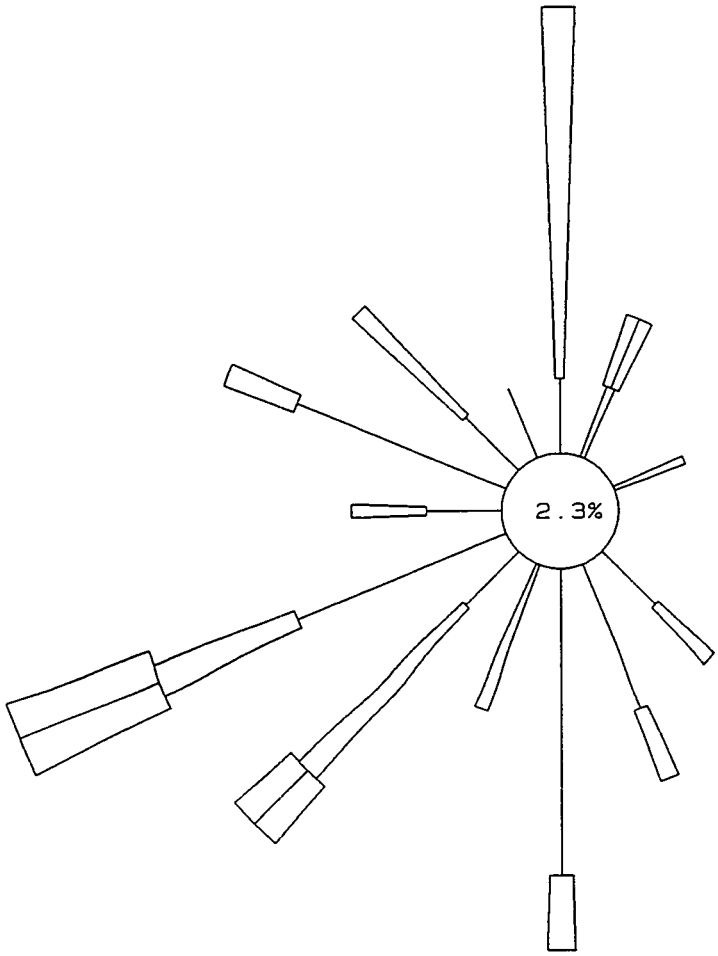
20.8%
10%
20%

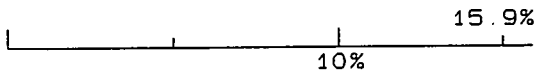
WIND SPEED CLASSES (MPS)

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

90.4% DATA RECOVERED
OF WHICH 11.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
10/ 1/1996 - 10/31/1996
0 - 2400





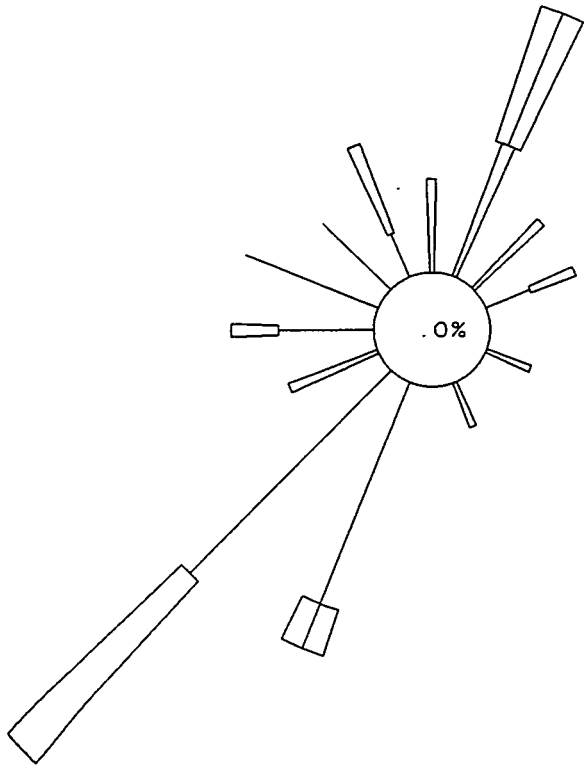
WIND SPEED CLASSES (MPS)

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

84.1% DATA RECOVERED
OF WHICH 7.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
11/ 1/1996 - 11/30/1996
0 - 2400

N



25.0%
10%
20%

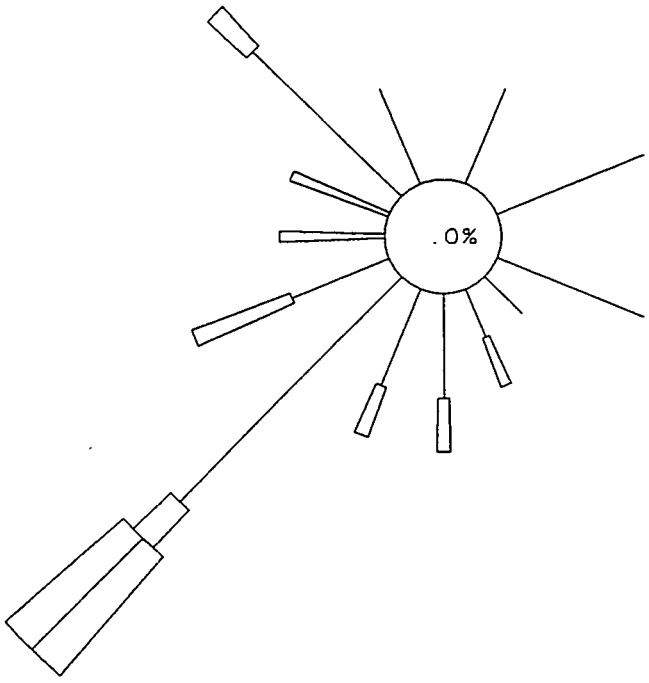
WIND SPEED CLASSES (MPS)

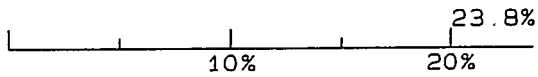
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

75.1% DATA RECOVERED
OF WHICH 8.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
2 METER HEIGHT - Total Hours
12/ 1/1996 - 12/31/1996
0 - 2400

N



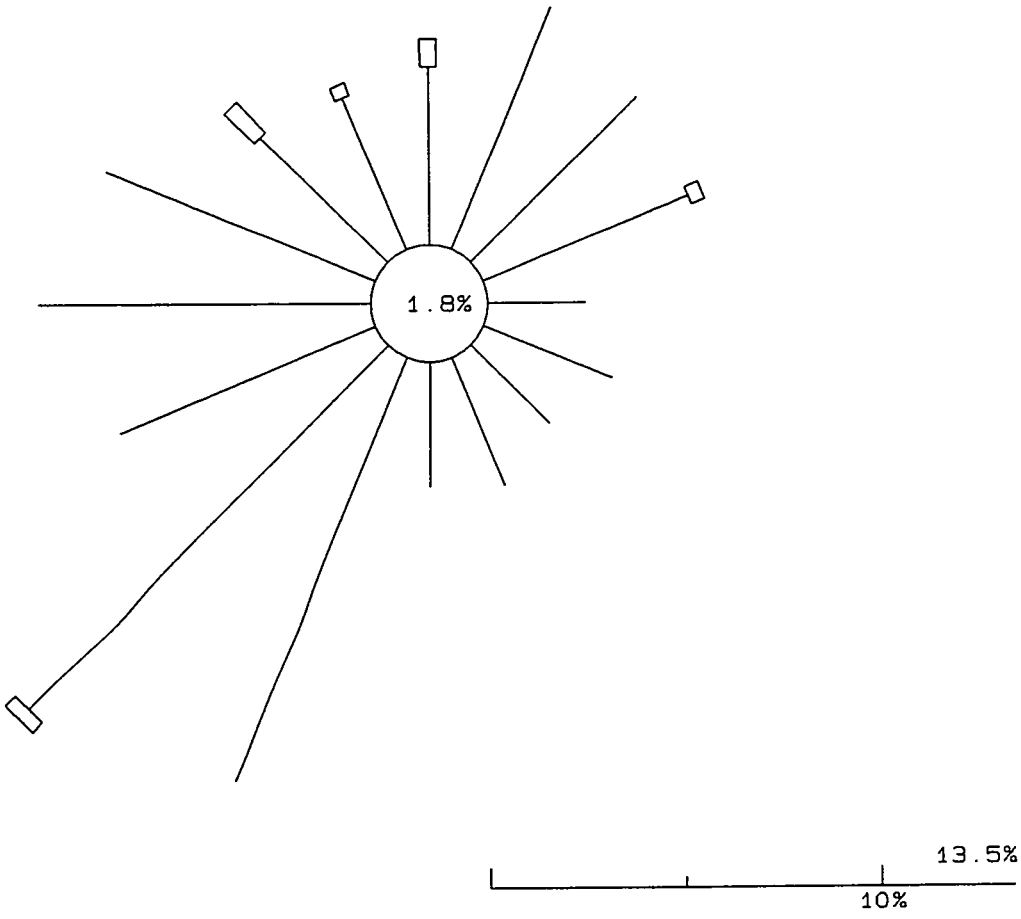


WIND SPEED CLASSES (MPS)

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

58.7% DATA RECOVERED
OF WHICH 9.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
1/ 1/1996 - 1/31/1996
0 - 2400

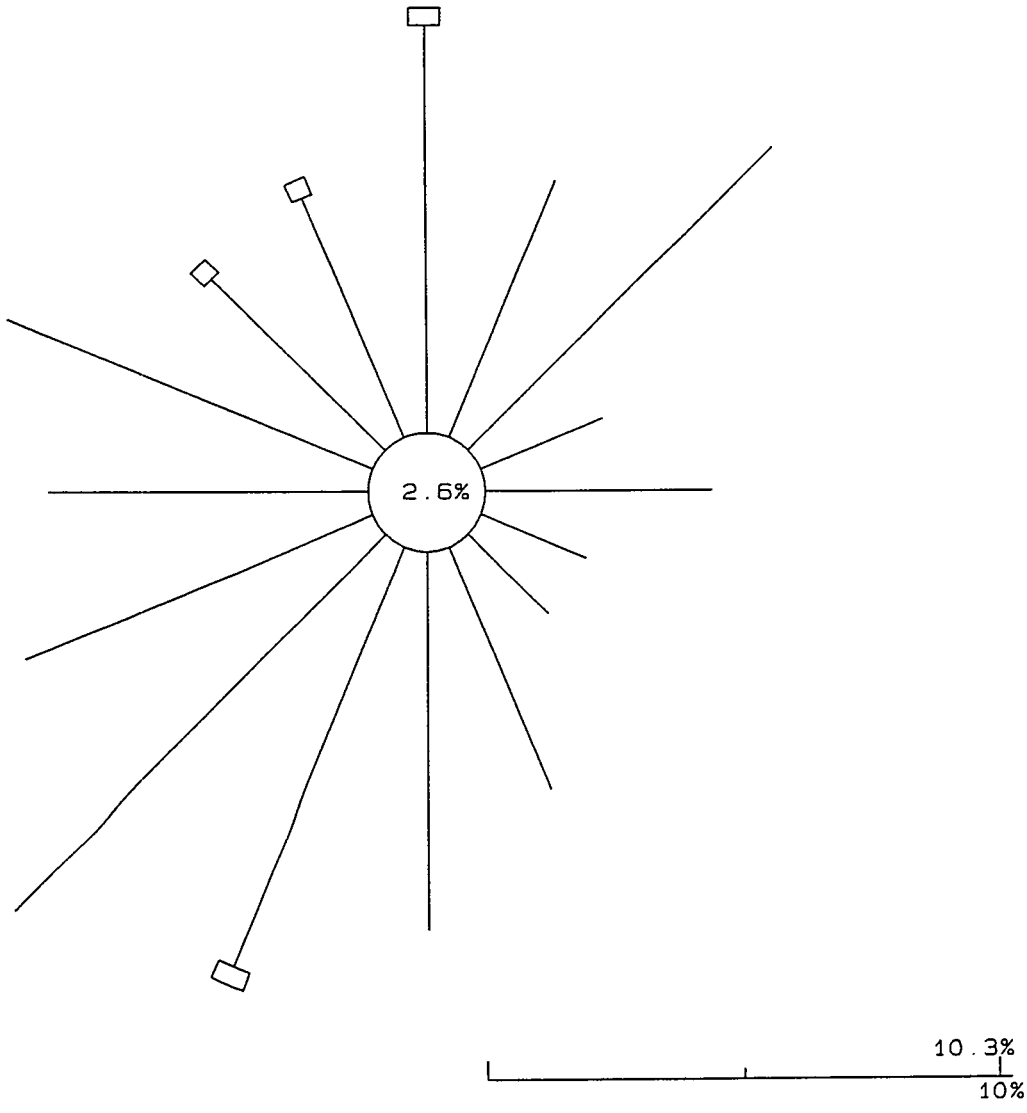


WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	I	.5< WS <= 1.8
2	D	1.8< WS <= 3.3
3	DD	3.3< WS <= 5.4
4	DDD	5.4< WS <= 8.5
5	DDDD	8.5< WS <=10.8
6	DDDDD	10.8< WS

74.2% DATA RECOVERED
OF WHICH 51.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
2/ 1/1996 - 2/29/1996
0 - 2400



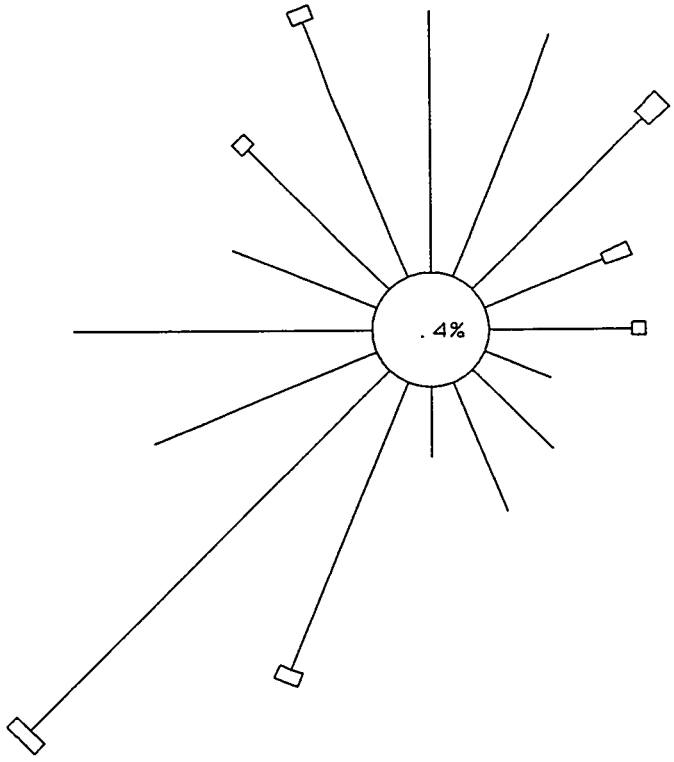
WIND SPEED CLASSES (MPS)

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

84.9% DATA RECOVERED
OF WHICH 46.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
3/ 1/1996 - 3/31/1996
0 - 2400

N



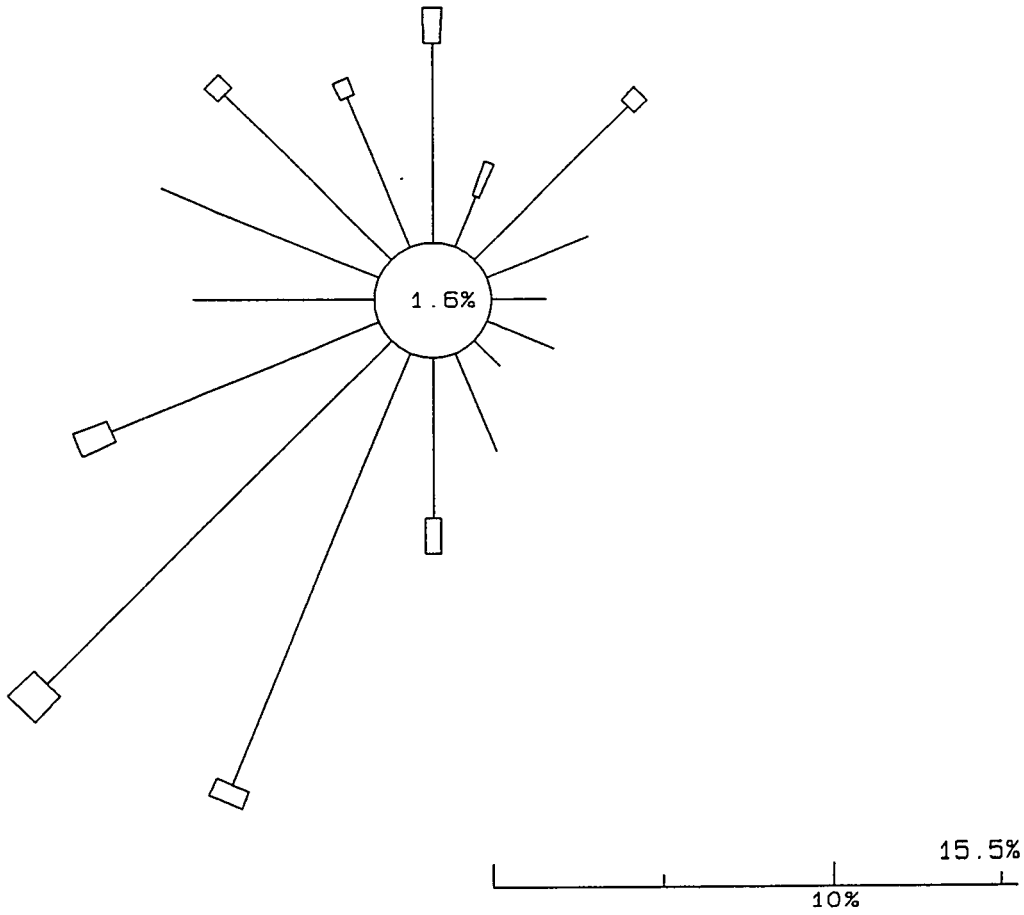
14.8%
10%

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

82.7% DATA RECOVERED
OF WHICH 40.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
4/ 1/1996 - 4/30/1996
0 - 2400

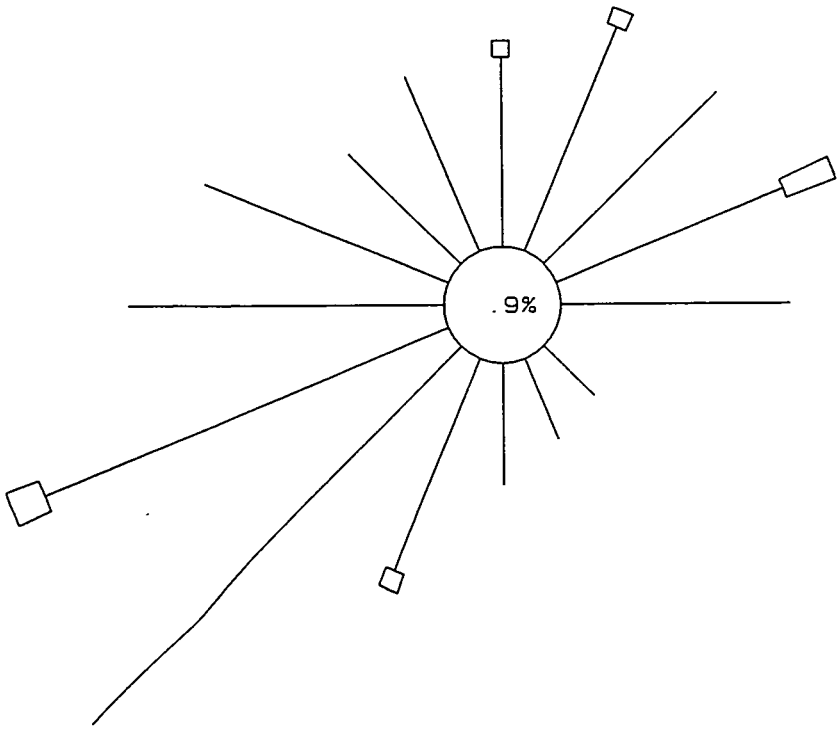


WIND SPEED CLASSES (MPS)

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

96.8% DATA RECOVERED
OF WHICH 26.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
5/ 1/1996 - 5/31/1996
0 - 2400

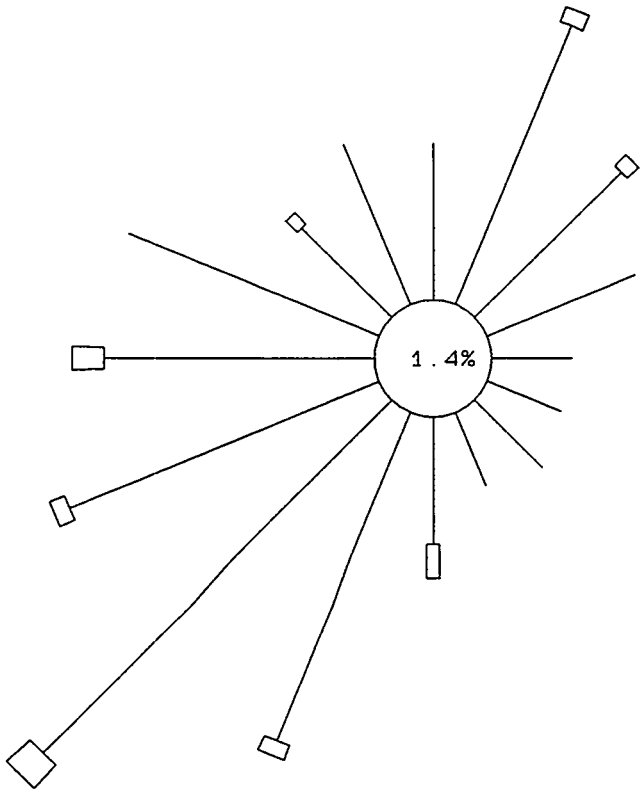


WIND SPEED CLASSES (MPS)

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 28.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
6/ 1/1996 - 6/30/1996
0 - 2400

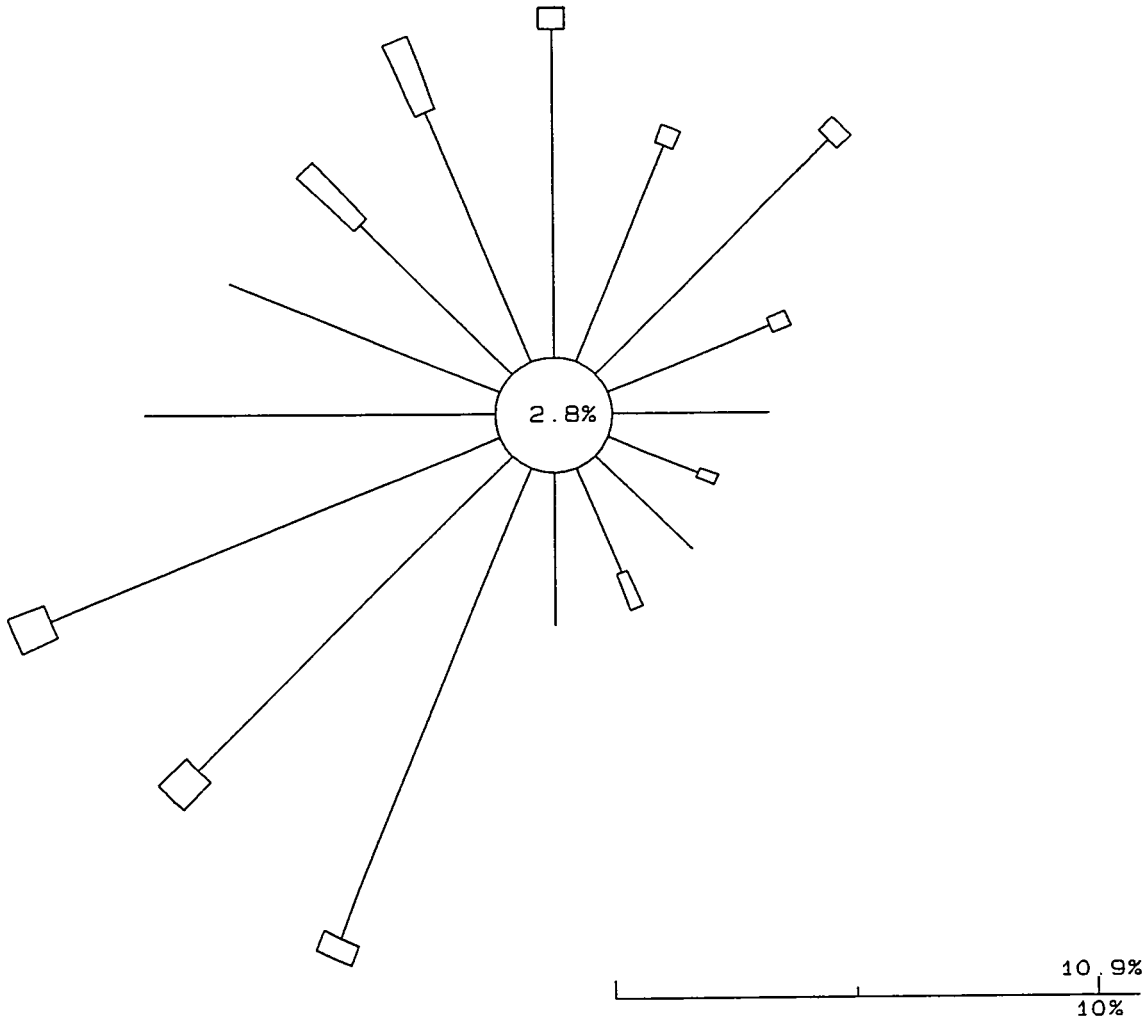


WIND SPEED CLASSES (MPS)

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 30.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
7/ 1/1996 - 7/31/1996
0 - 2400

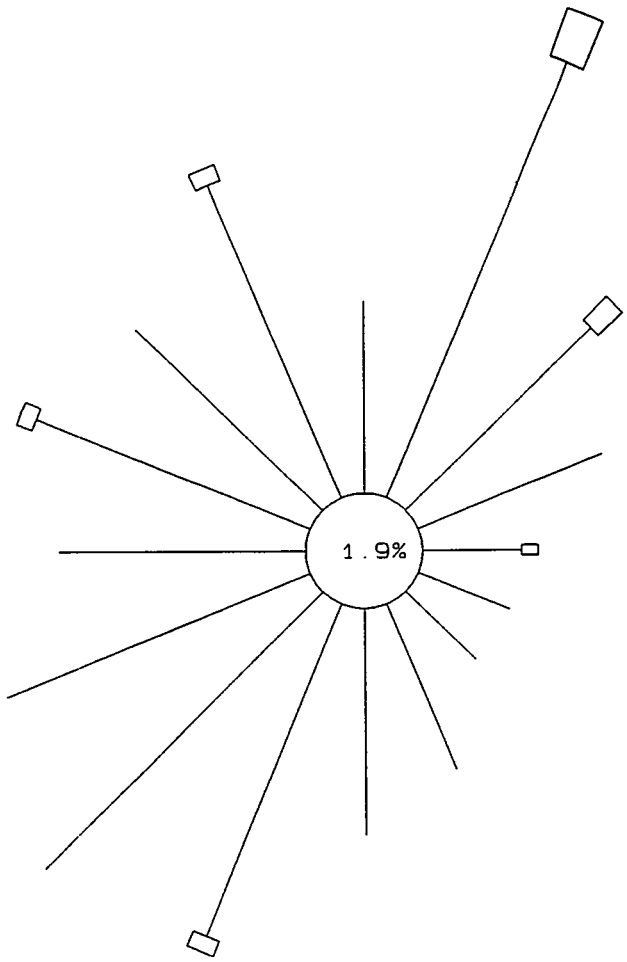


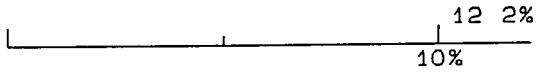
WIND SPEED CLASSES (MPS)

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 33.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
8/ 1/1996 - 8/31/1996
0 - 2400





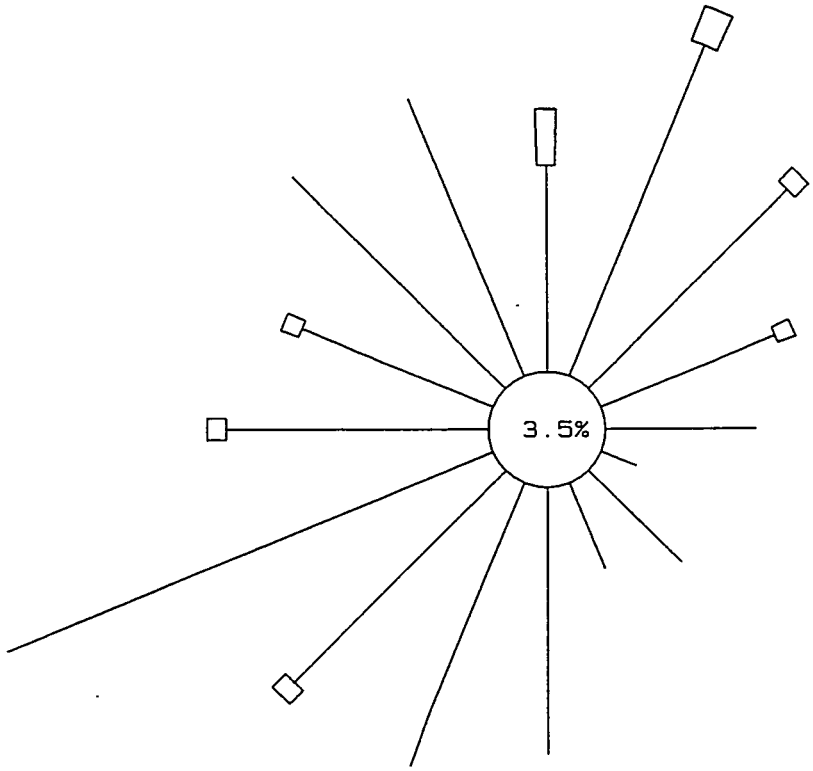
WIND SPEED CLASSES (MPS)

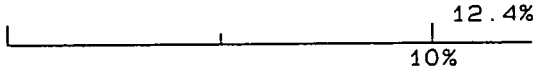
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

98.4% DATA RECOVERED
OF WHICH 35.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
9/ 1/1996 - 9/30/1996
0 - 2400

N



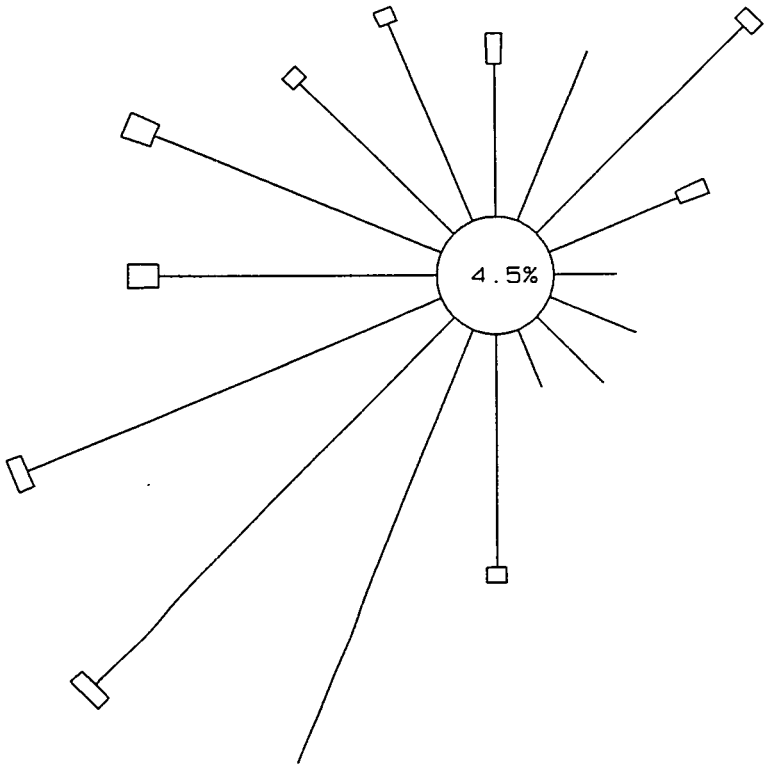


WIND SPEED CLASSES (MPS)

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

90.4% DATA RECOVERED
OF WHICH 34.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
10/ 1/1996 - 10/31/1996
0 - 2400

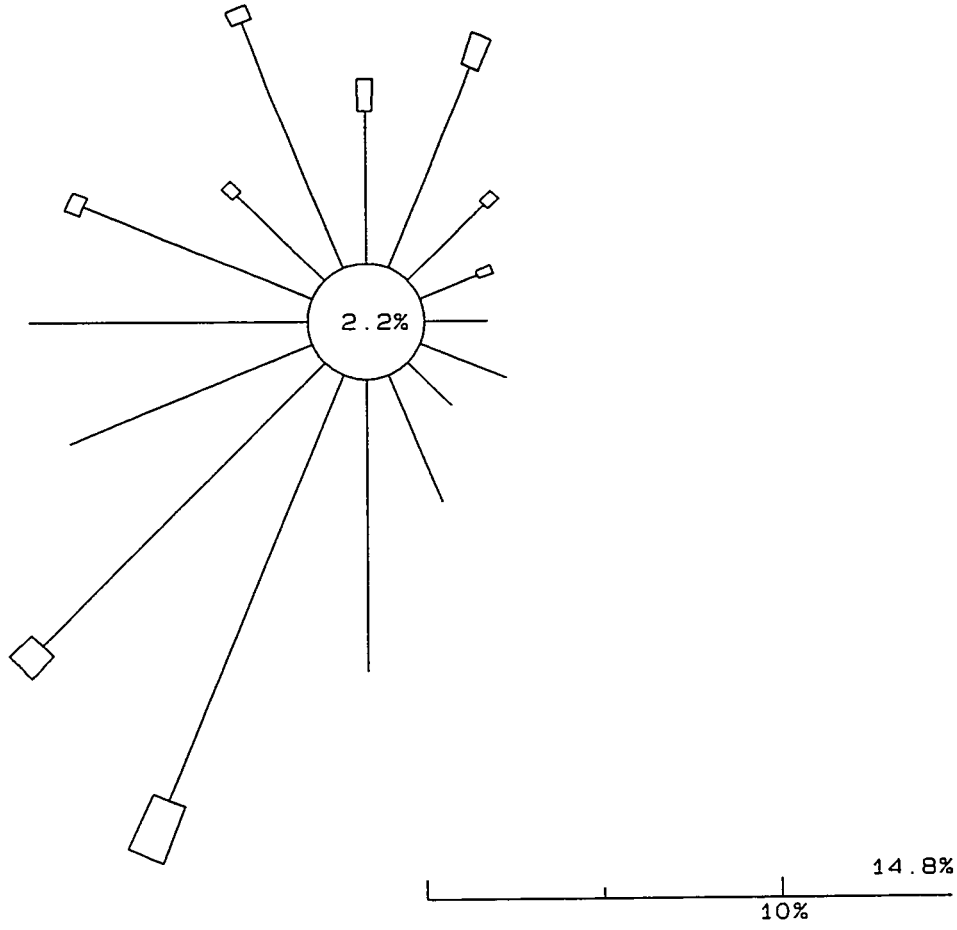


WIND SPEED CLASSES (MPS)

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

84.1% DATA RECOVERED
OF WHICH 43.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
11/ 1/1996 - 11/30/1996
0 - 2400

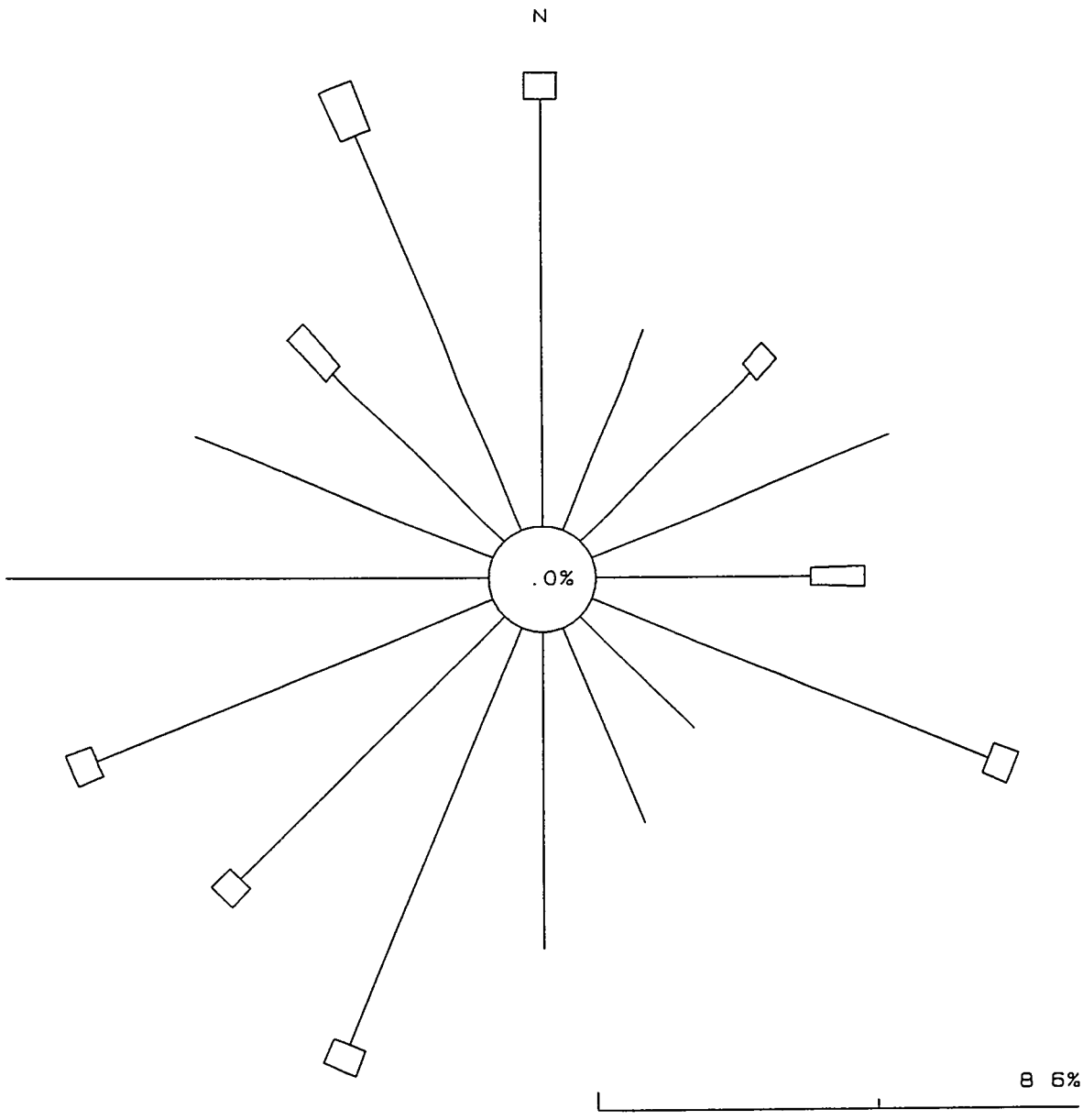


WIND SPEED CLASSES (MPS)

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

75.1% DATA RECOVERED
OF WHICH 42.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
2 METER HEIGHT - Total Hours
12/ 1/1996 - 12/31/1996
0 - 2400



WIND SPEED CLASSES (MPS)

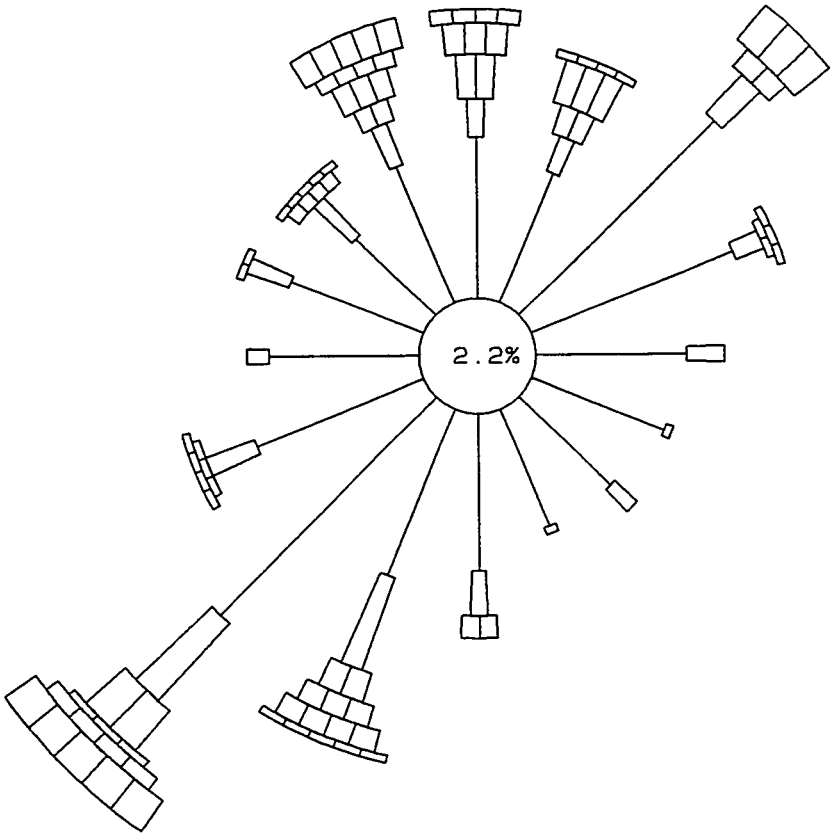
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

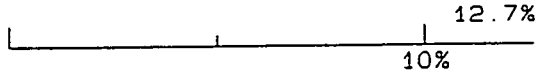
58.7% DATA RECOVERED
OF WHICH 47.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
1/ 1/1996 - 1/31/1996
0 - 2400

N





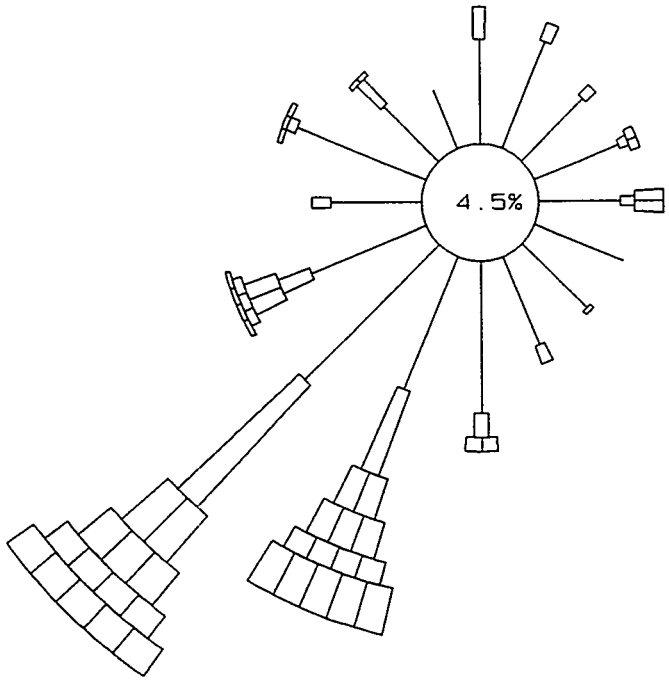
WIND SPEED CLASSES (MPS)

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

74.2% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
2/ 1/1996 - 2/29/1996
0 - 2400



WIND SPEED CLASSES (MPS)

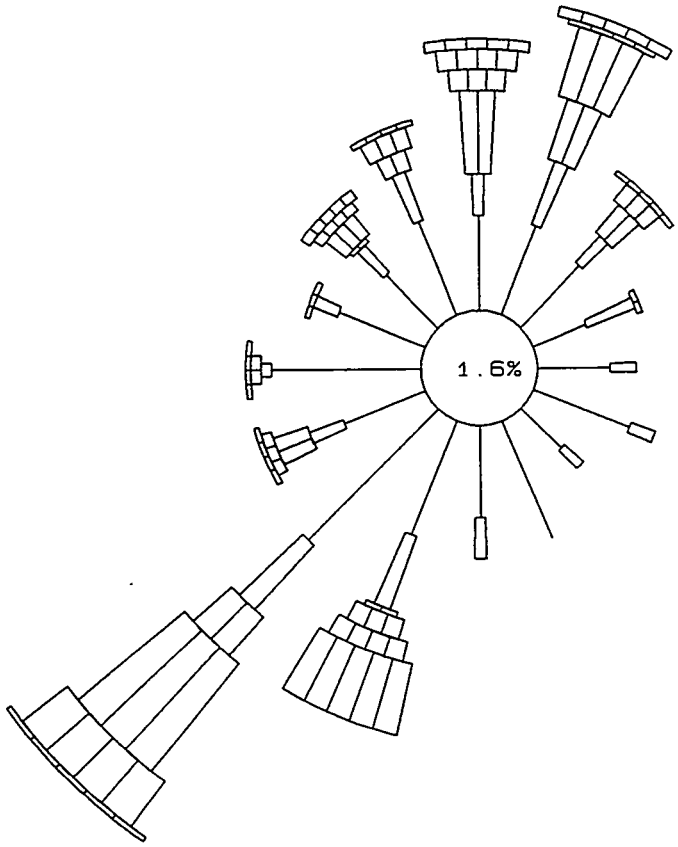
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

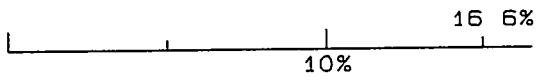
83.8% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
3/ 1/1996 - 3/31/1996
0 - 2400

N





WIND SPEED CLASSES (MPS)

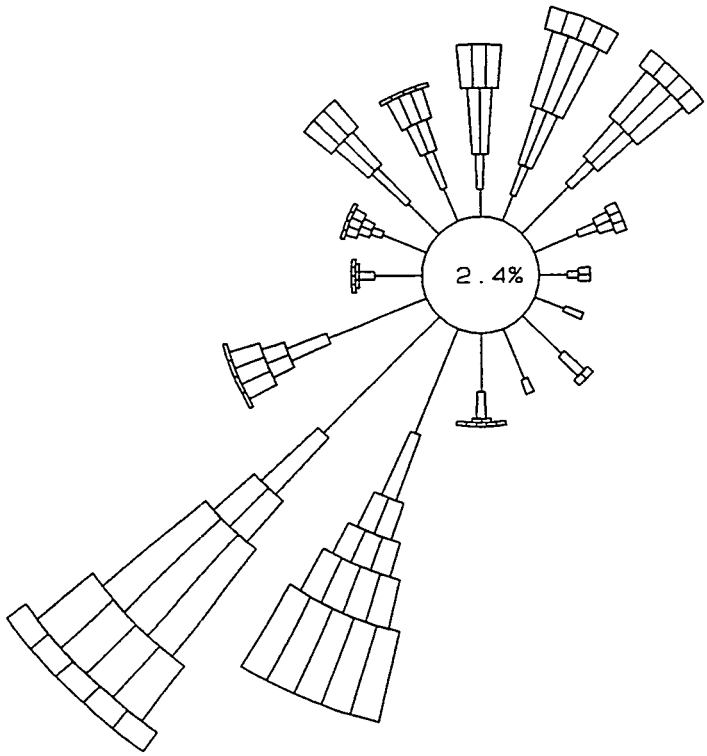
CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

82.7% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
4/ 1/1996 - 4/30/1996
0 - 2400

N



19.2%
10%

WIND SPEED CLASSES (MPS)

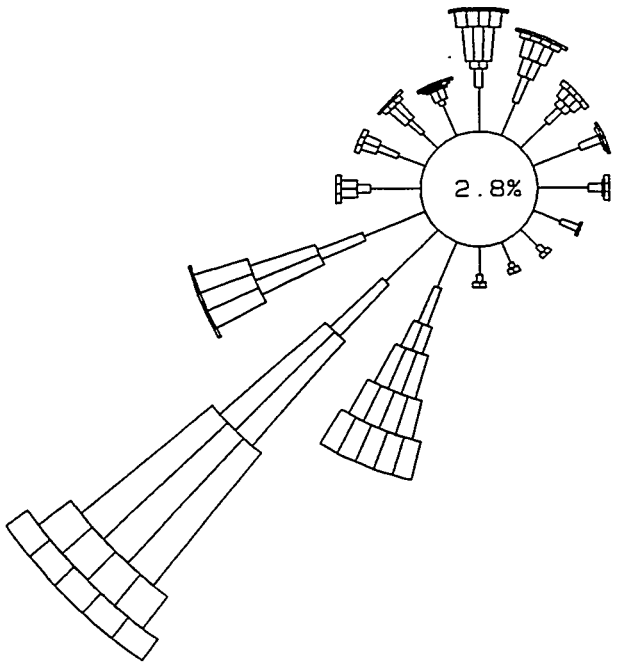
CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

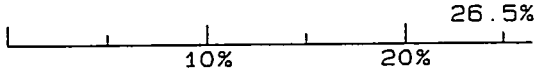
96.8% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
5/ 1/1996 - 5/31/1996
0 - 2400

N





WIND SPEED CLASSES (MPS)

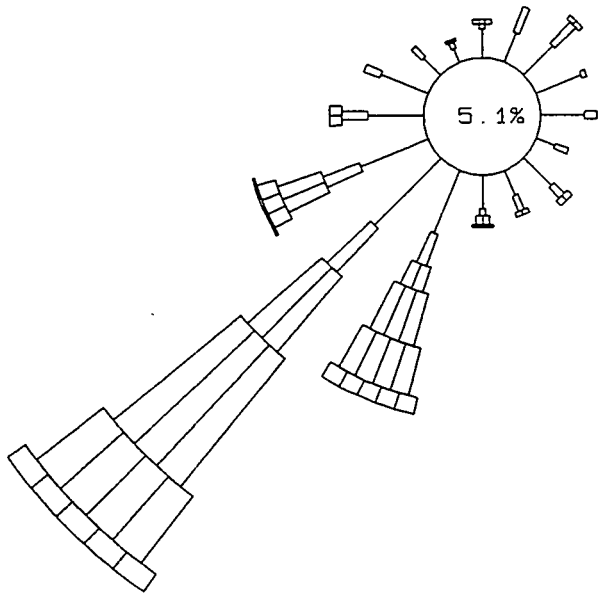
CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

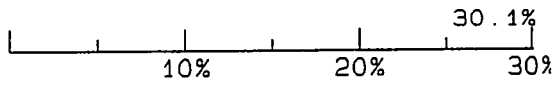
100.0% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
6/ 1/1996 - 6/30/1996
0 - 2400

N





WIND SPEED CLASSES (MPS)

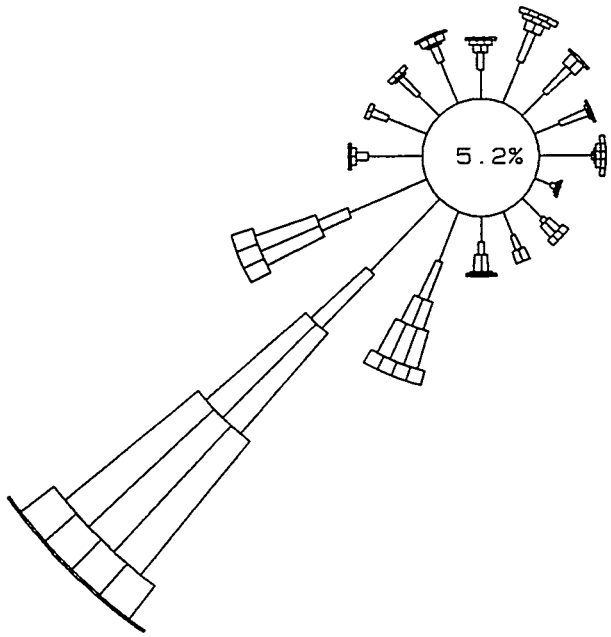
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

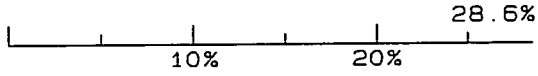
100.0% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
7/ 1/1996 - 7/31/1996
0 - 2400

N





WIND SPEED CLASSES (MPS)

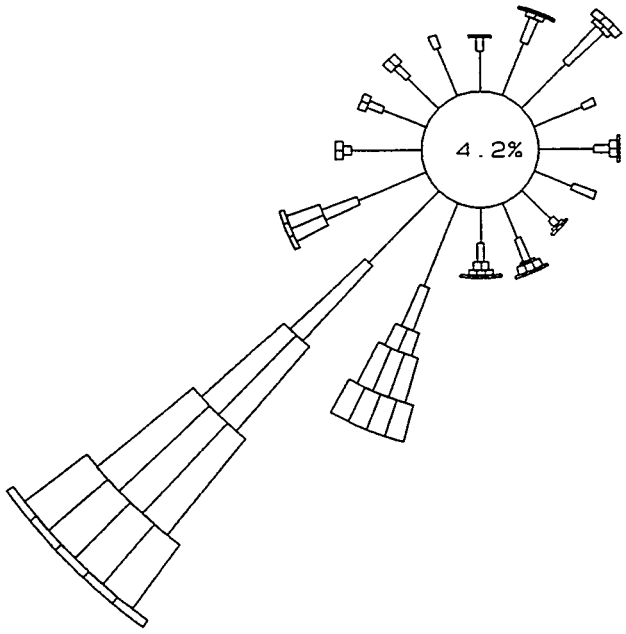
CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

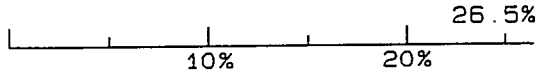
100.0% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
8/ 1/1996 - 8/31/1996
0 - 2400

N





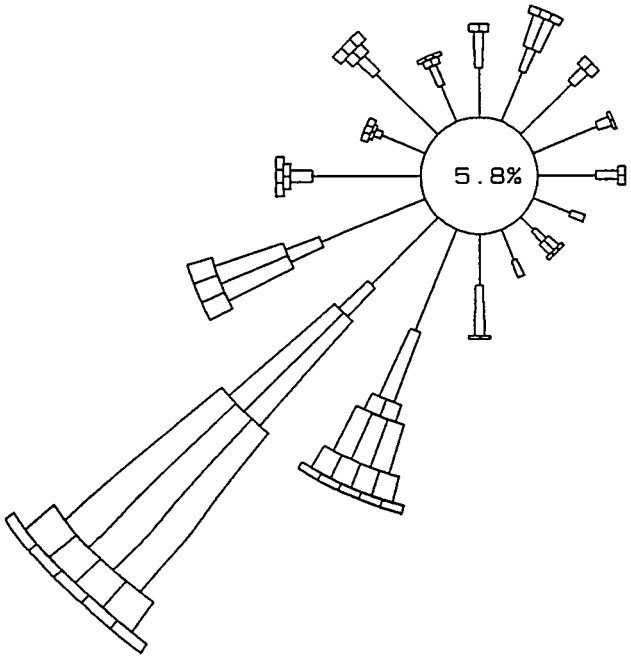
WIND SPEED CLASSES (MPS)

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

98.4% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
9/ 1/1996 - 9/30/1996
0 - 2400



WIND SPEED CLASSES (MPS)

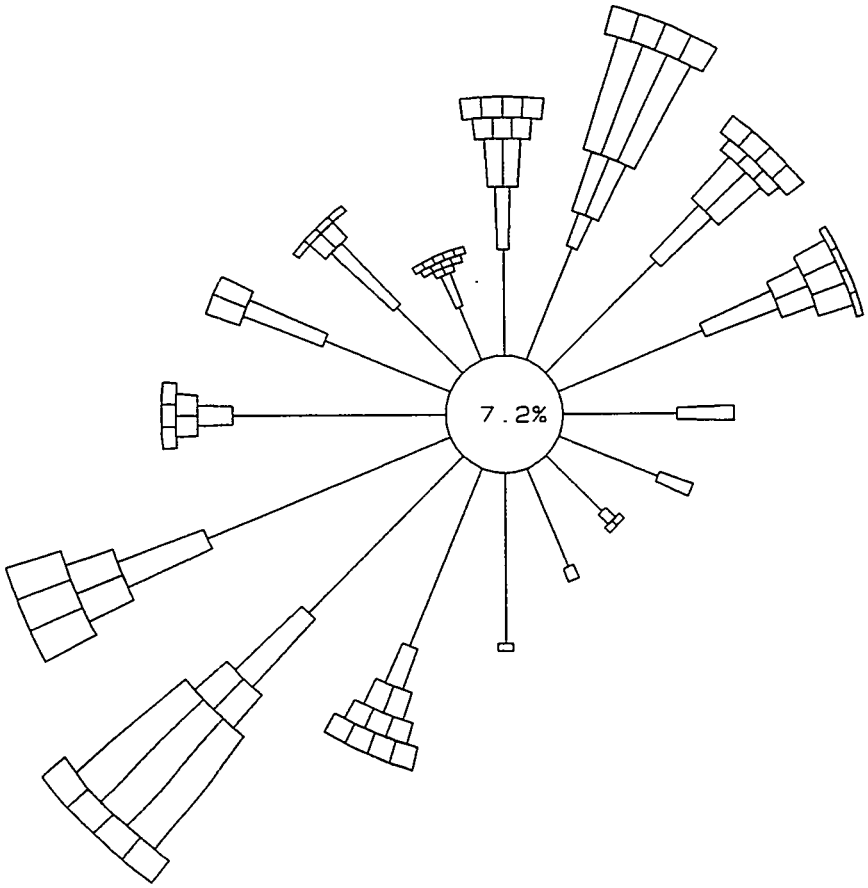
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

90.4% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
10/ 1/1996 - 10/31/1996
0 - 2400

N



11.8%
10%

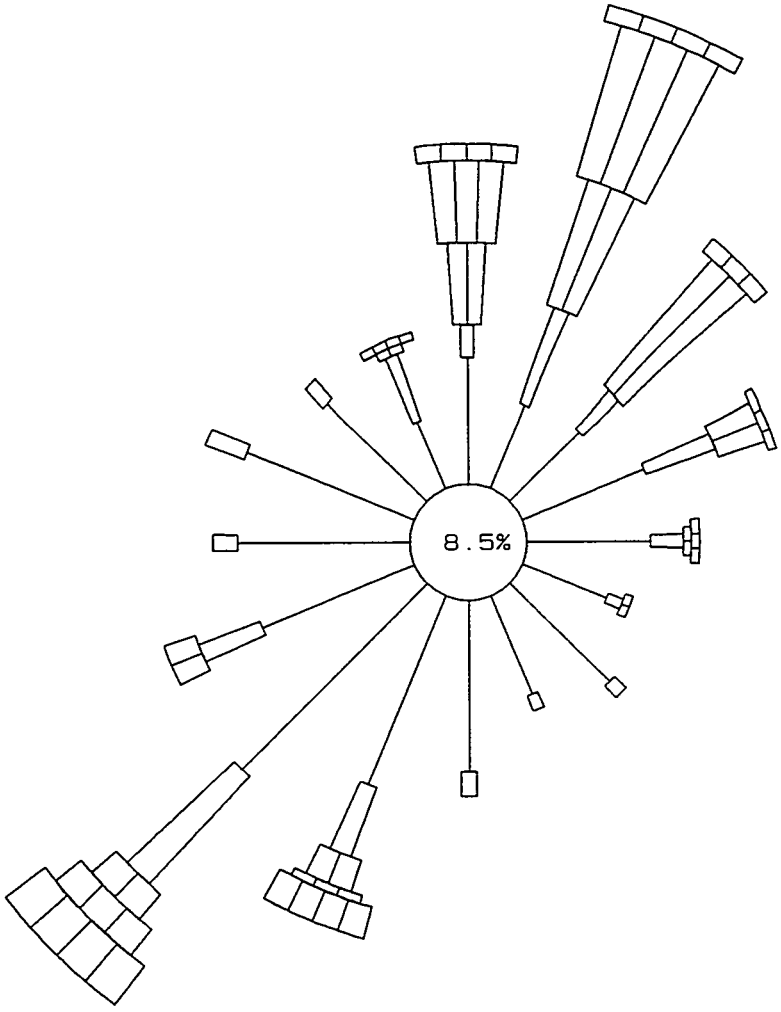
WIND SPEED CLASSES (MPS)

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

84.1% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
11/ 1/1996 - 11/30/1996
0 - 2400



11.8%
10%

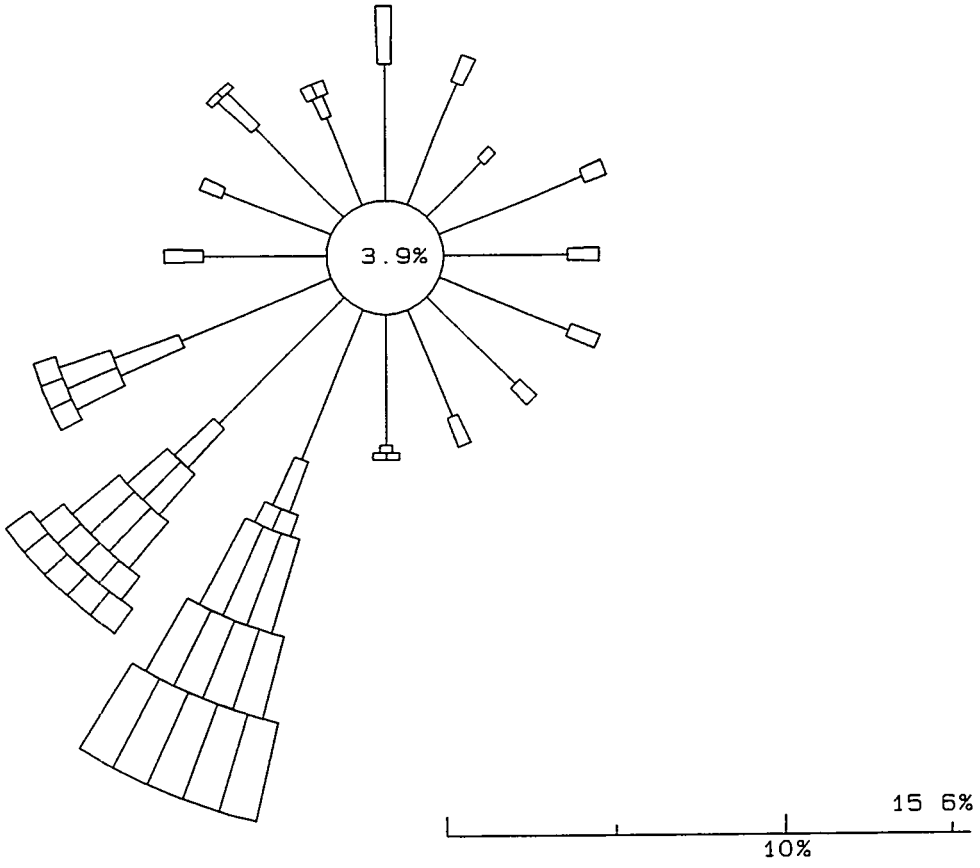
WIND SPEED CLASSES (MPS)

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

75.1% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours
12/ 1/1996 - 12/31/1996
0 - 2400



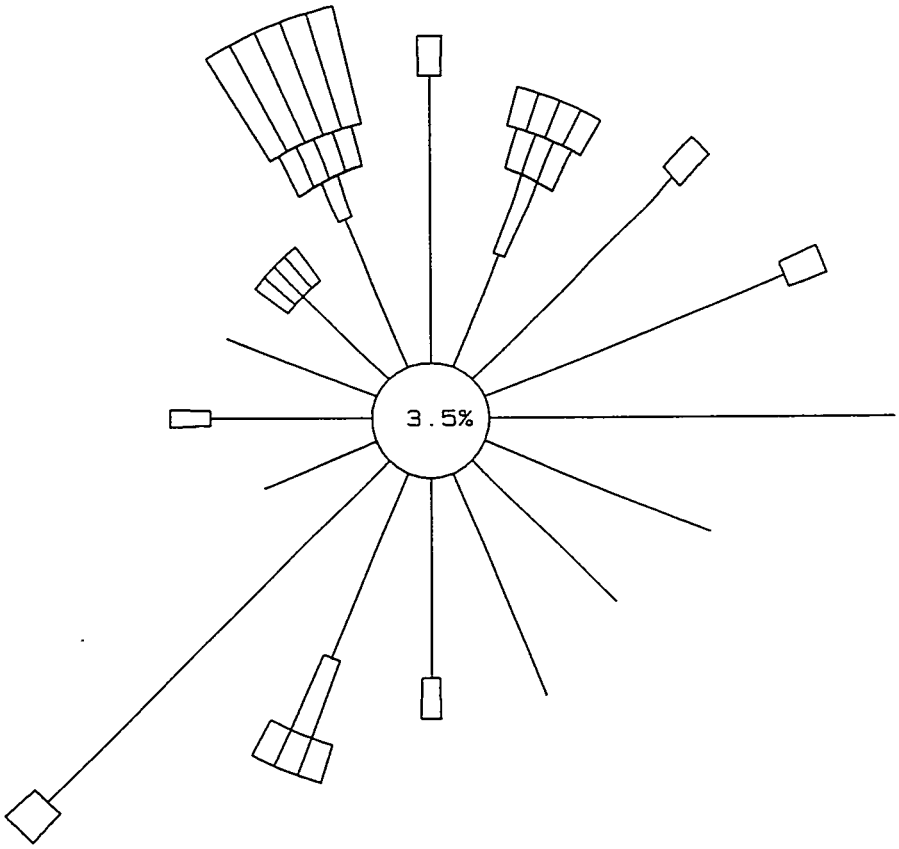
WIND SPEED CLASSES (MPS)

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

58.7% DATA RECOVERED
OF WHICH 100.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
1/ 1/1996 - 1/31/1996
600 - 1000



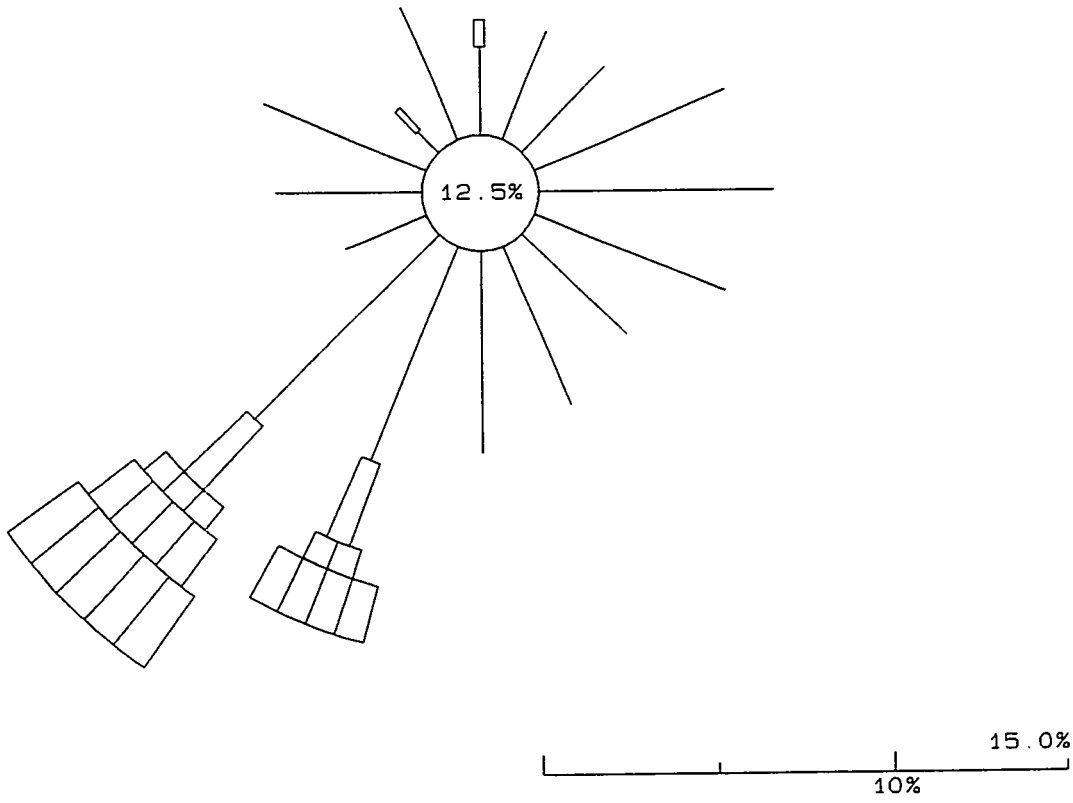
WIND SPEED CLASSES (MPS)

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

74.2% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
2/ 1/1996 - 2/29/1996
600 - 1000



WIND SPEED CLASSES (MPS)

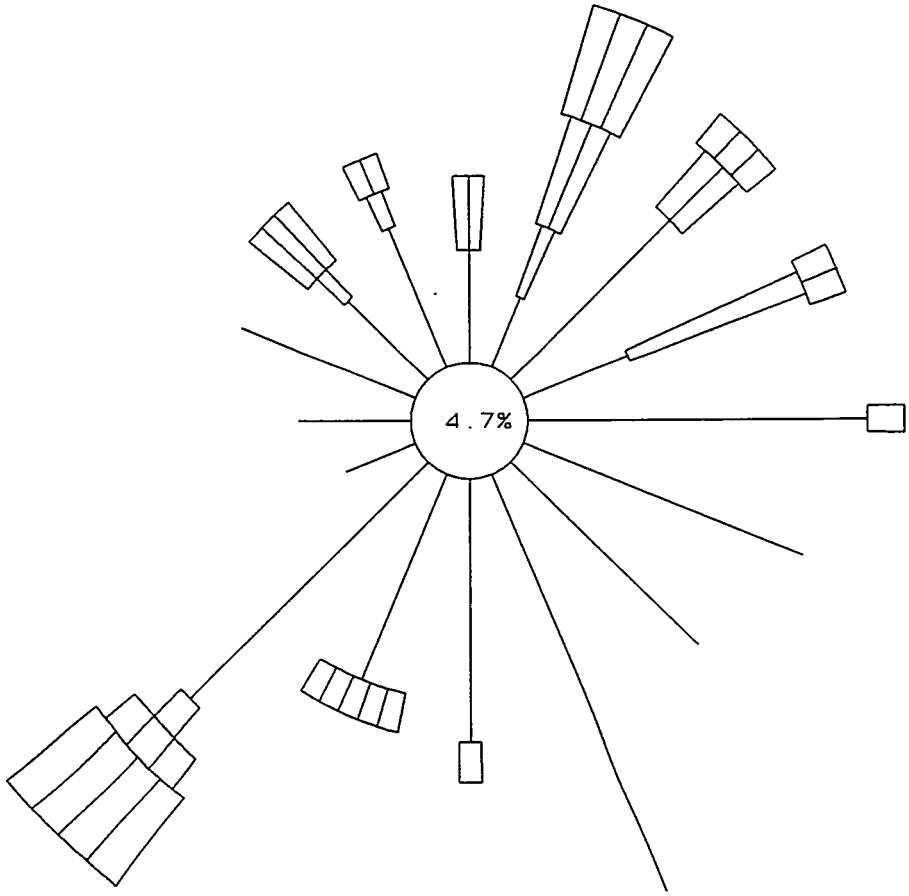
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

83.8% DATA RECOVERED
OF WHICH 20.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
3/ 1/1996 - 3/31/1996
600 - 1000

N



11.0%
10%

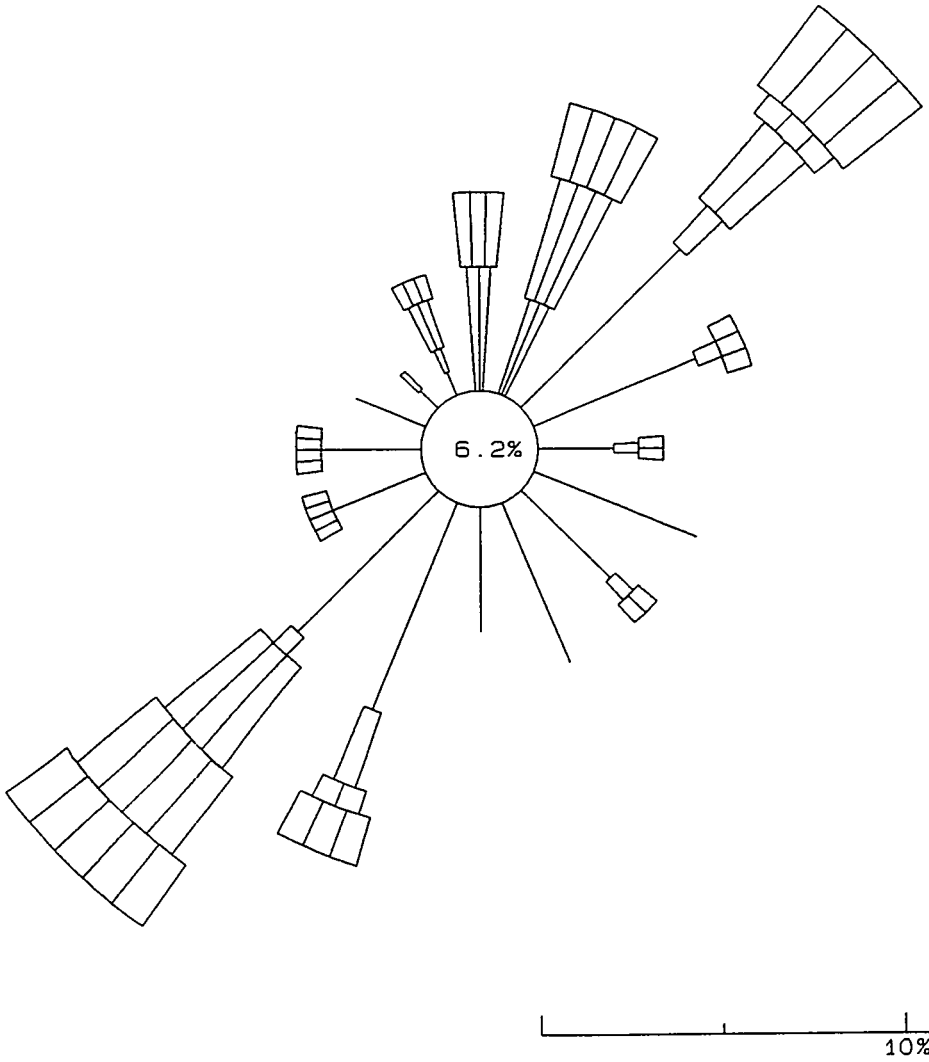
WIND SPEED CLASSES (MPS)

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

82.7% DATA RECOVERED
OF WHICH 20.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
4/ 1/1996 - 4/30/1996
600 - 1000



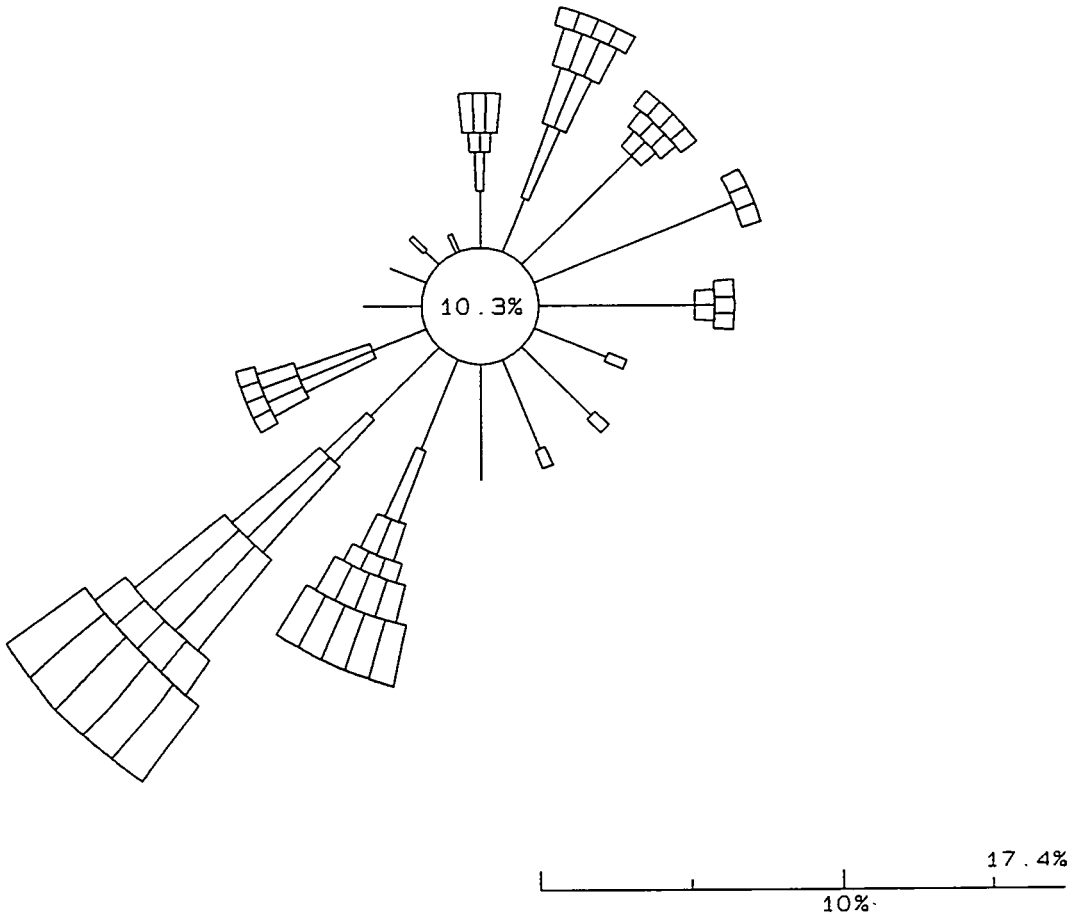
WIND SPEED CLASSES (MPS)

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

96.8% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
5/ 1/1996 - 5/31/1996
600 - 1000



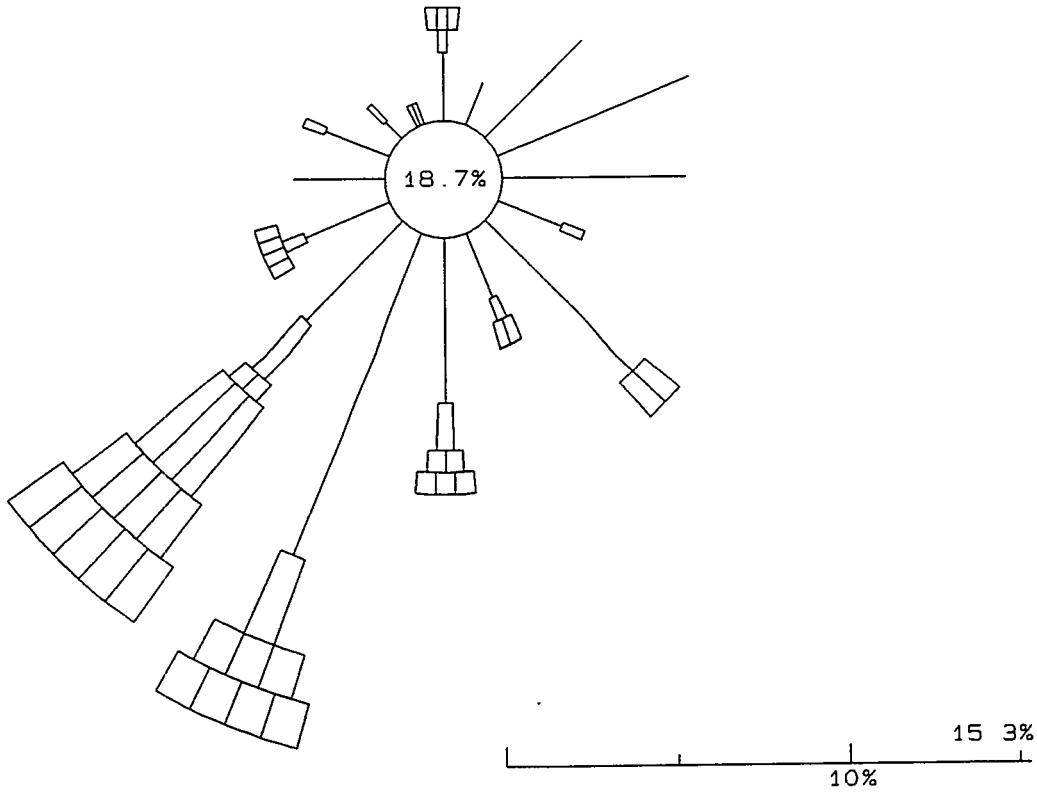
WIND SPEED CLASSES (MPS)

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
6/ 1/1996 - 6/30/1996
600 - 1000



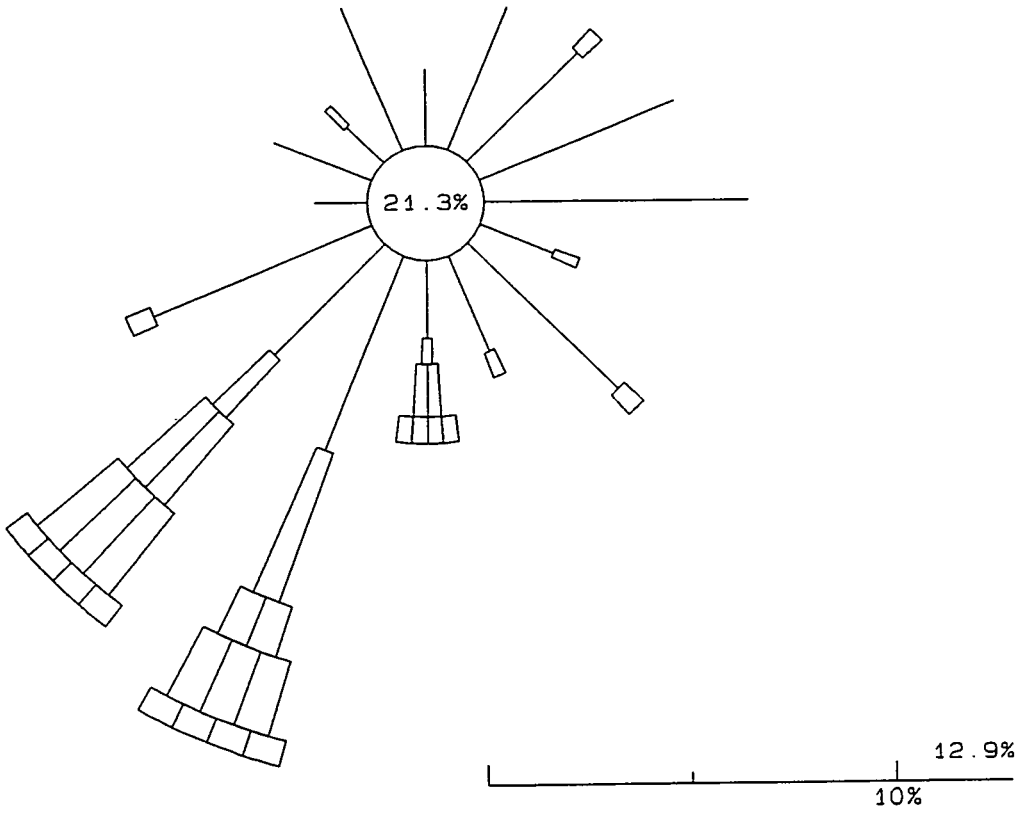
WIND SPEED CLASSES (MPS)

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
7/ 1/1996 - 7/31/1996
600 - 1000



WIND SPEED CLASSES (MPS)

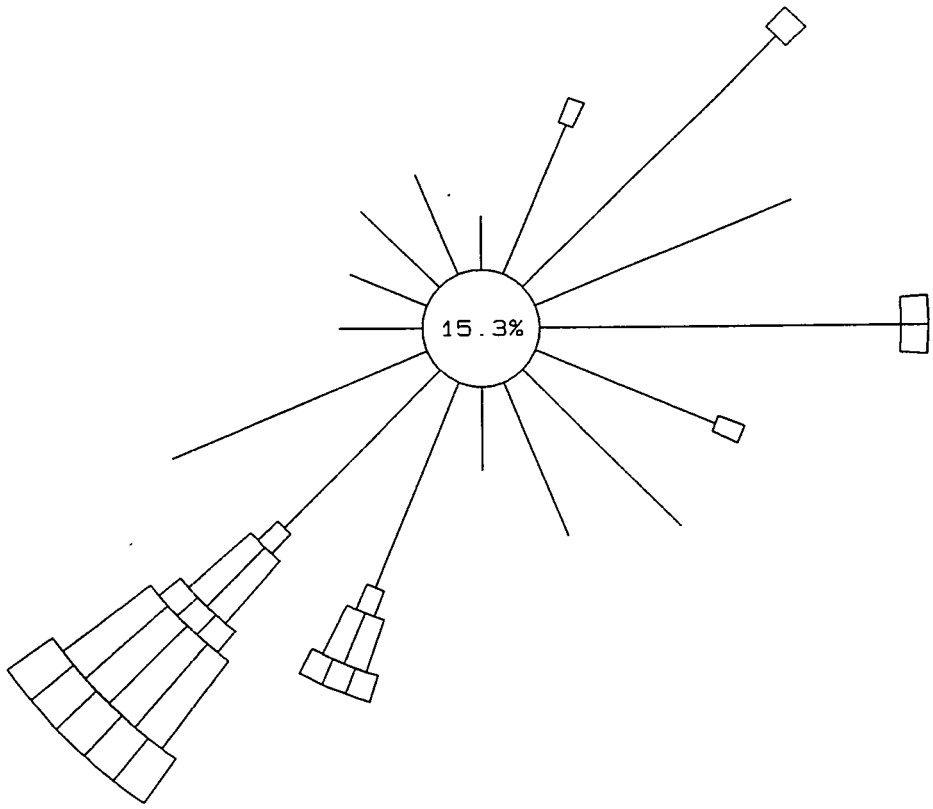
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
8/ 1/1996 - 8/31/1996
600 - 1000

N



12.7%
10%

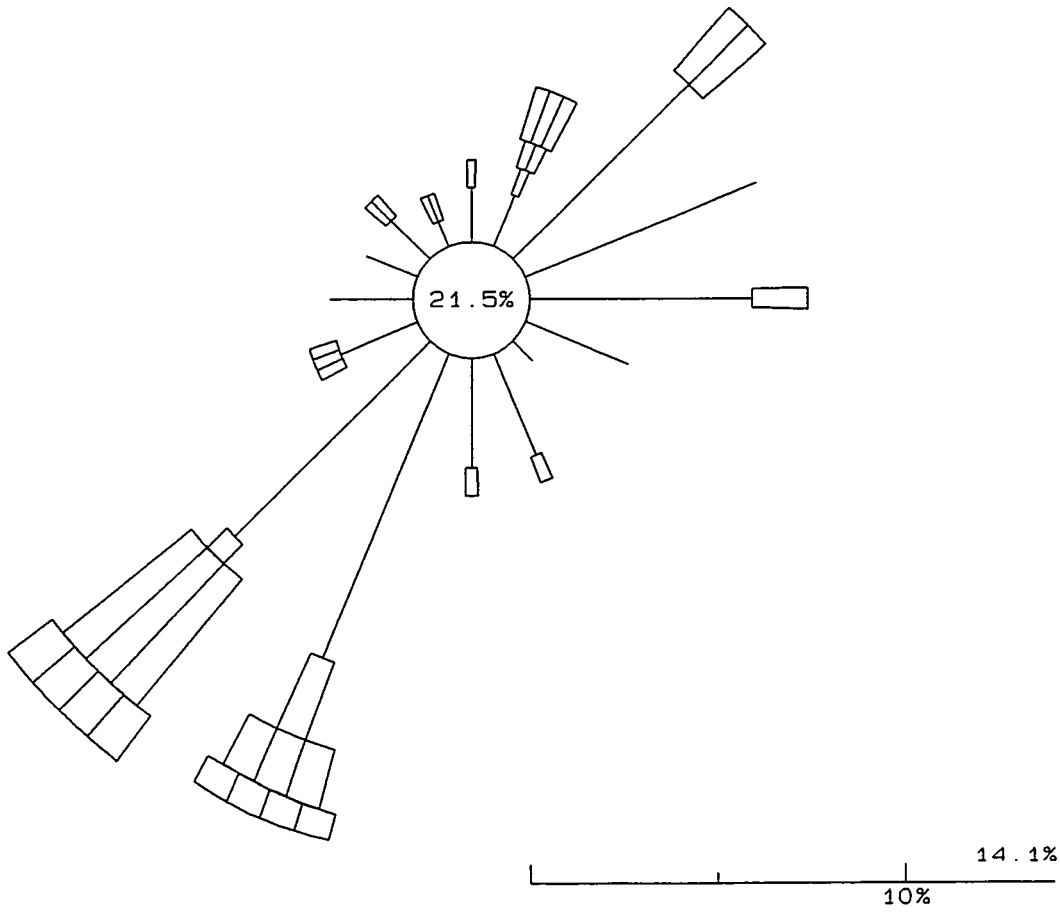
WIND SPEED CLASSES (MPS)

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

98.4% DATA RECOVERED
OF WHICH 20.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
9/ 1/1996 - 9/30/1996
600 - 1000



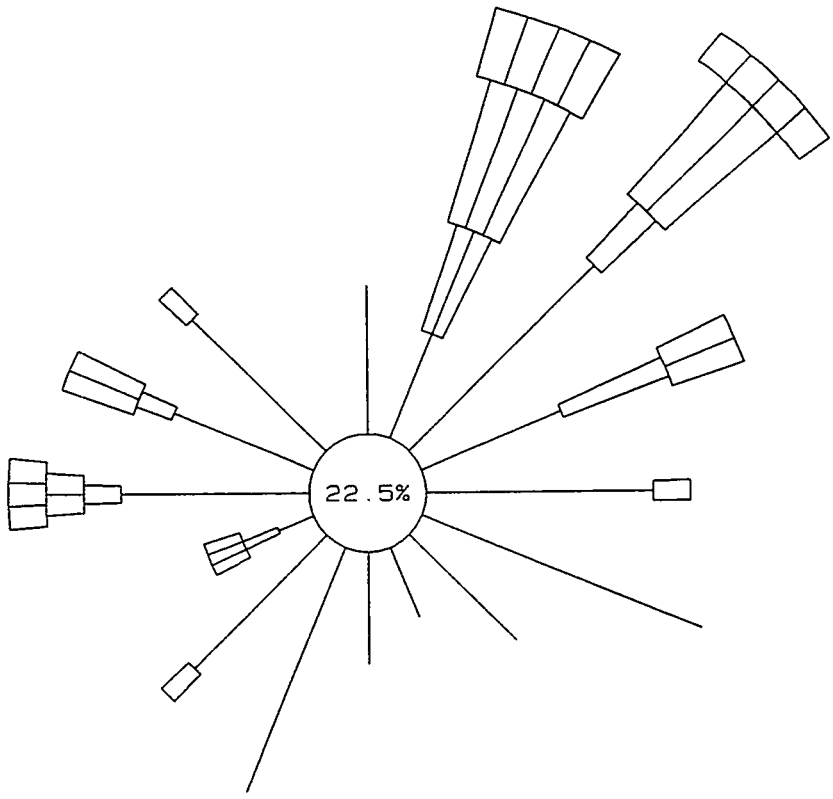
WIND SPEED CLASSES (MPS)

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

90.4% DATA RECOVERED
OF WHICH 20.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
10/ 1/1996 - 10/31/1996
600 - 1000



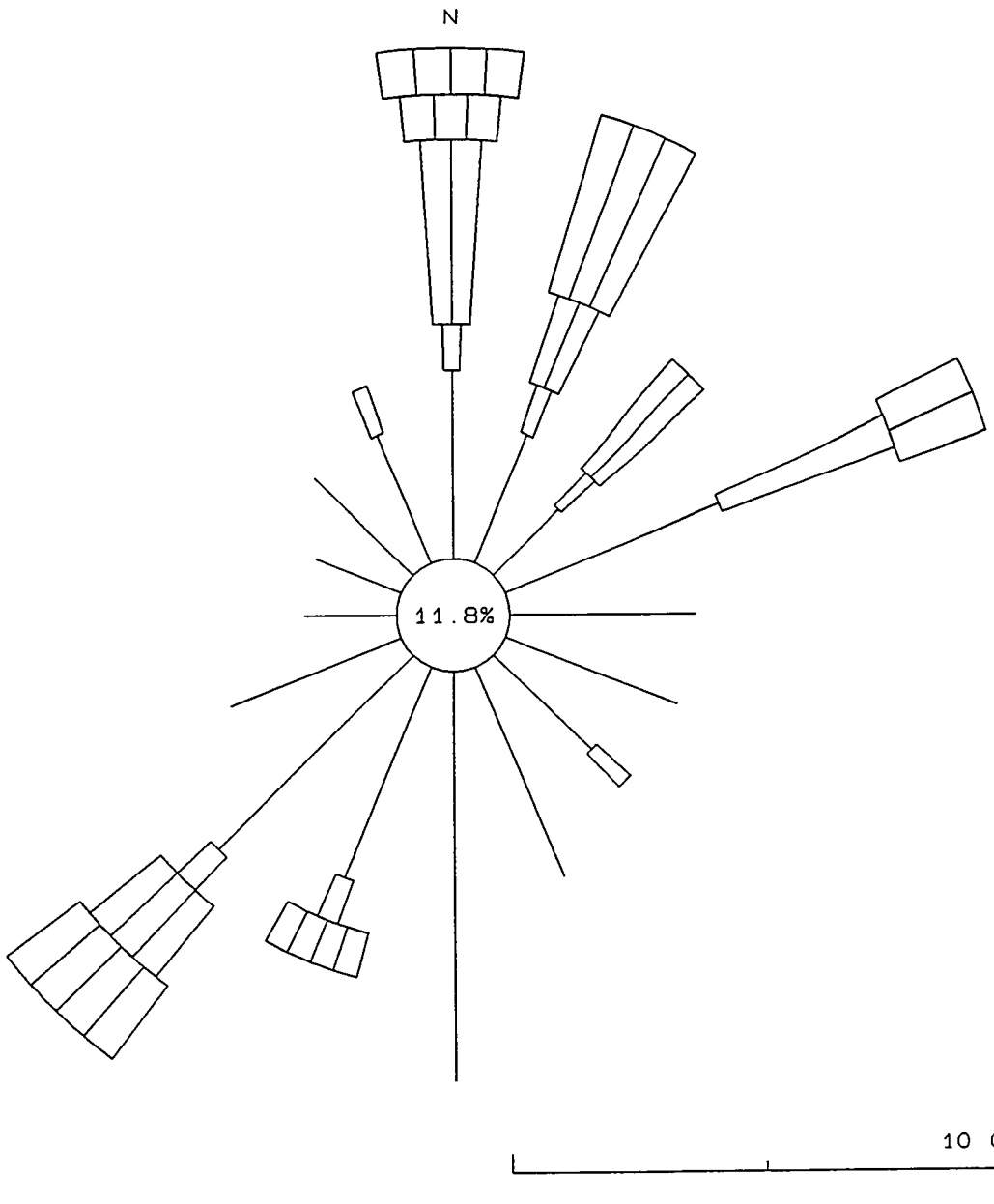
WIND SPEED CLASSES (MPS)

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

84.1% DATA RECOVERED
OF WHICH 20.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
11/ 1/1996 - 11/30/1996
600 - 1000



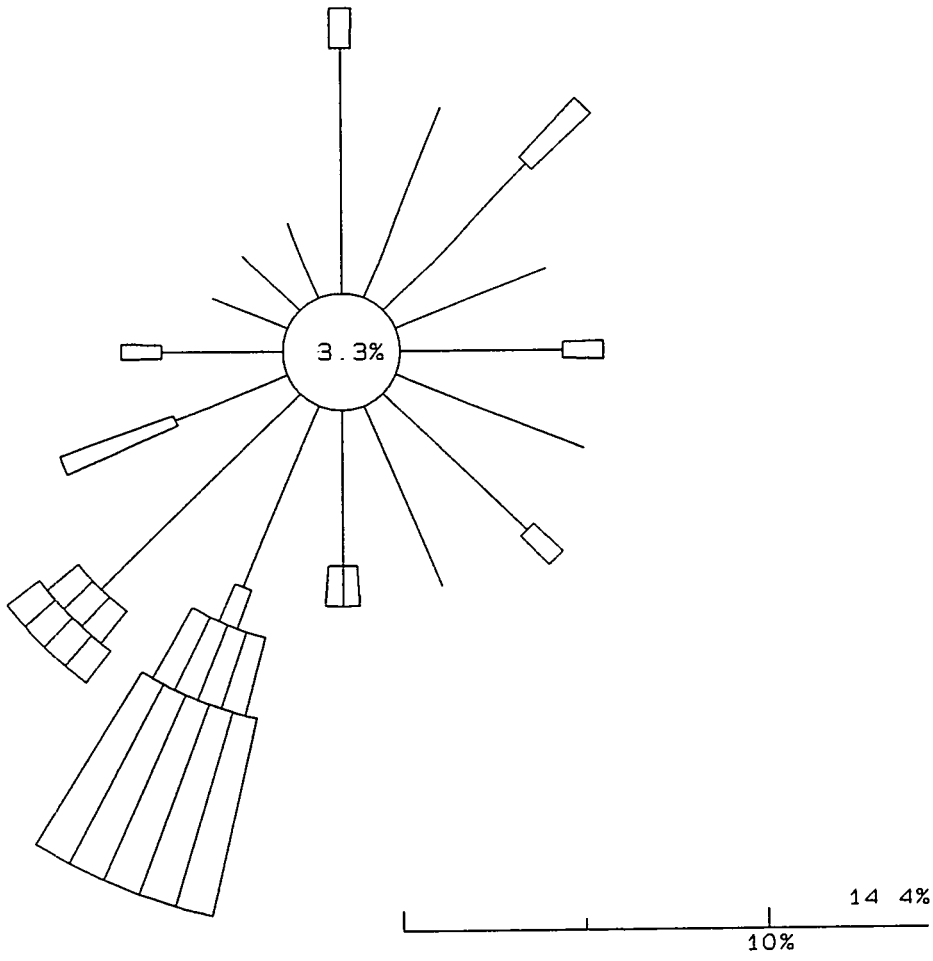
WIND SPEED CLASSES (MPS)

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

75.1% DATA RECOVERED
OF WHICH 20.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Morning Transition
12/ 1/1996 - 12/31/1996
600 - 1000



WIND SPEED CLASSES (MPS)

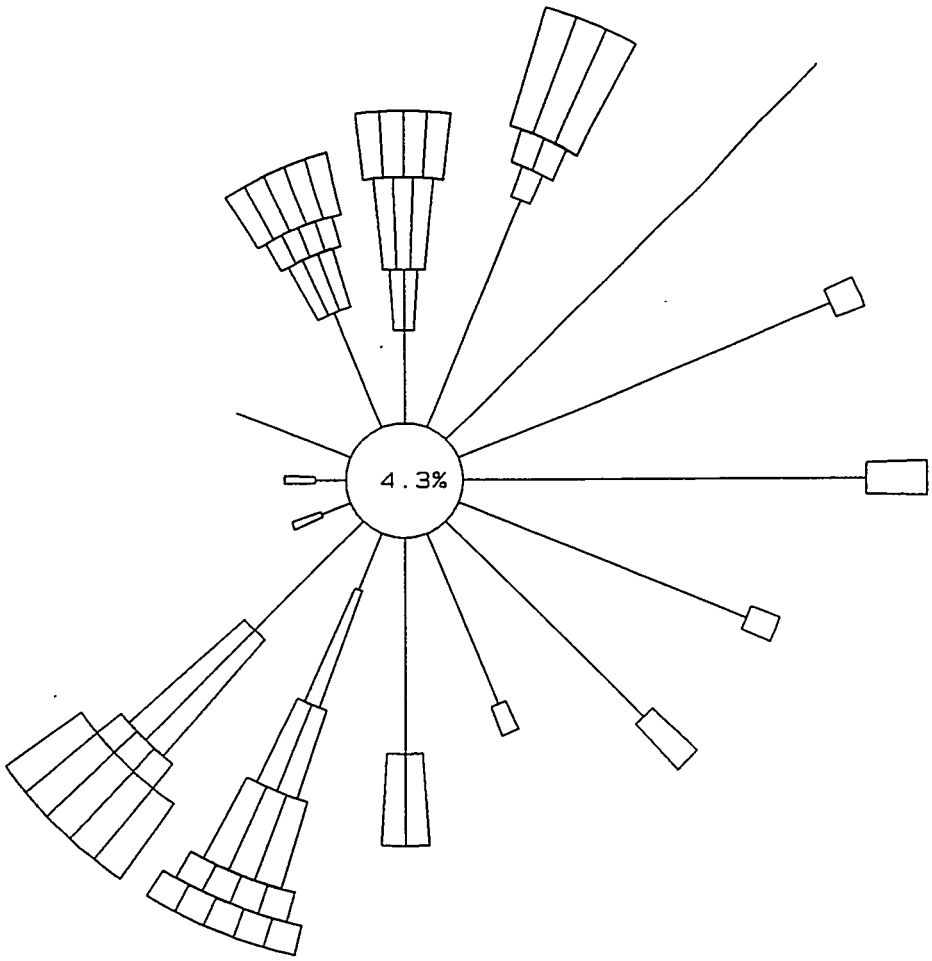
CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

58.7% DATA RECOVERED
OF WHICH 20.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
1/ 1/1996 - 1/31/1996
1000 - 1600

N



WIND SPEED CLASSES (MPS)

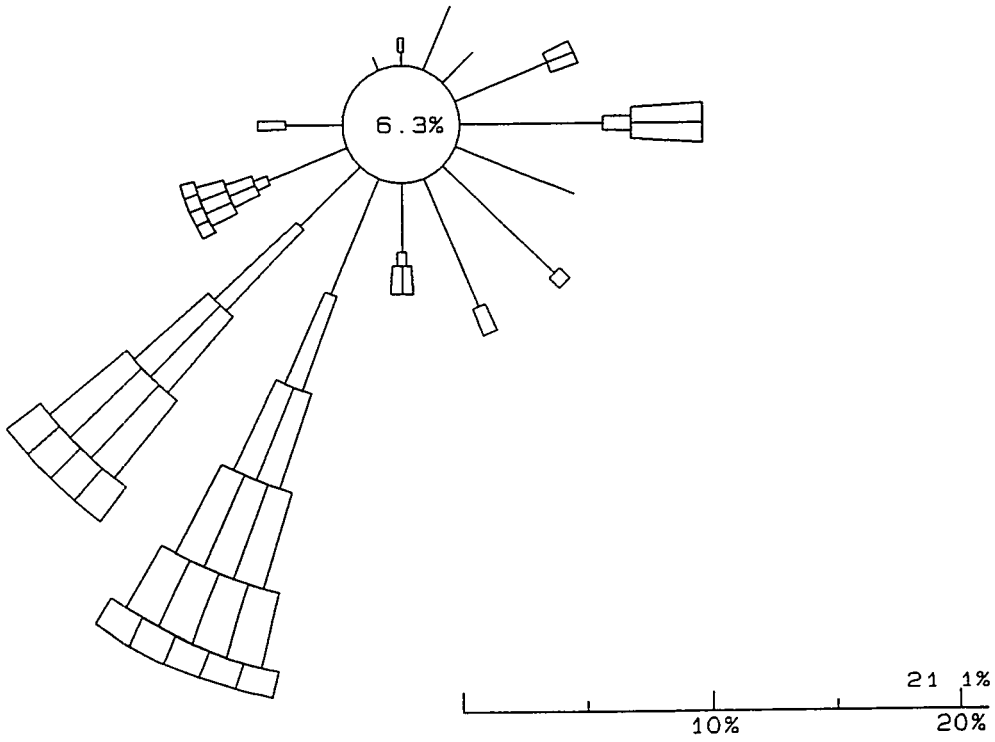
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

74.2% DATA RECOVERED
OF WHICH 29.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
2/ 1/1996 - 2/29/1996
1000 - 1600

N



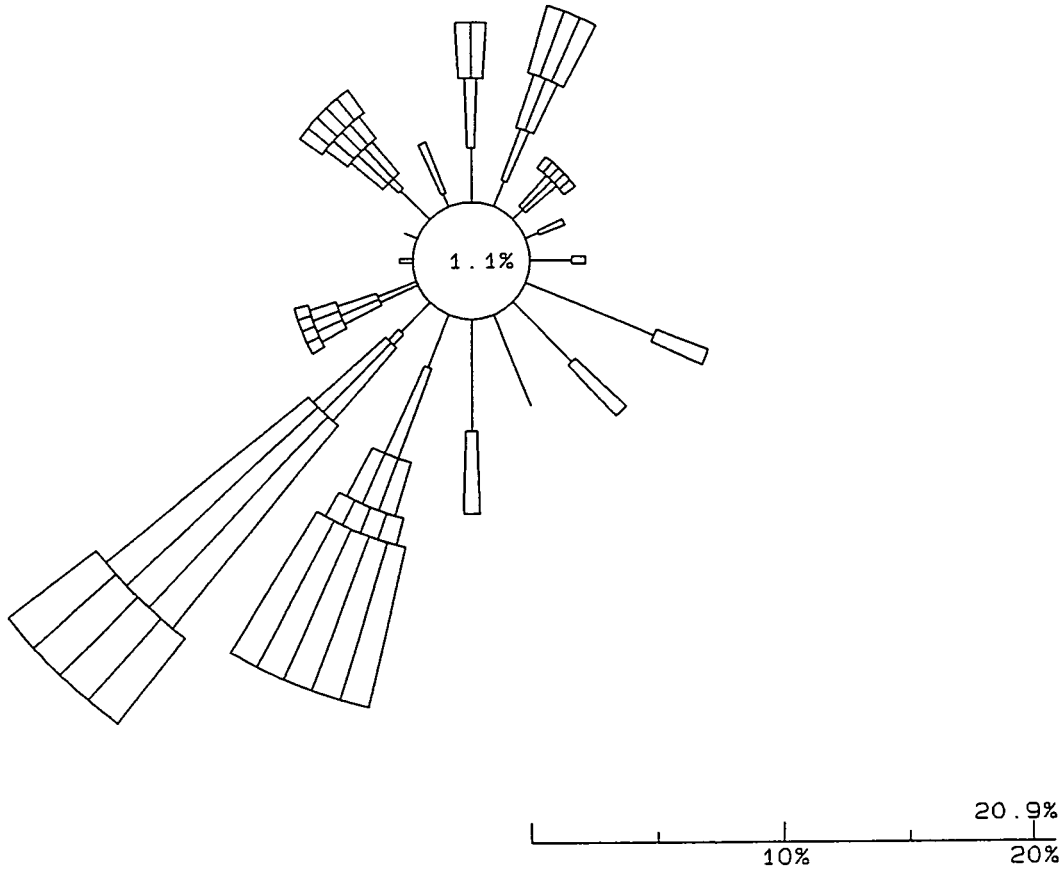
WIND SPEED CLASSES (MPS)

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

83.8% DATA RECOVERED
OF WHICH 30.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
3/ 1/1996 - 3/31/1996
1000 - 1600



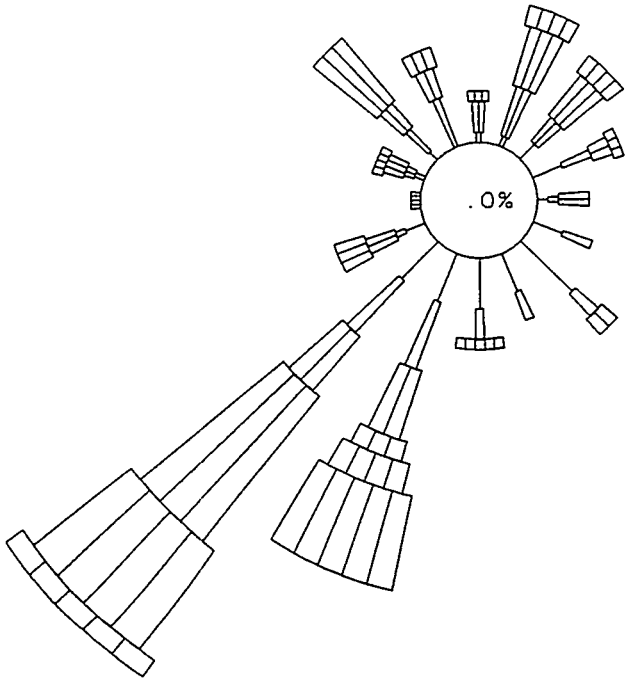
WIND SPEED CLASSES (MPS)

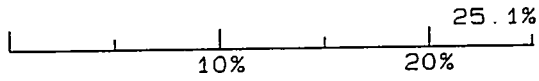
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

82.7% DATA RECOVERED
OF WHICH 29.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
4/ 1/1996 - 4/30/1996
1000 - 1600





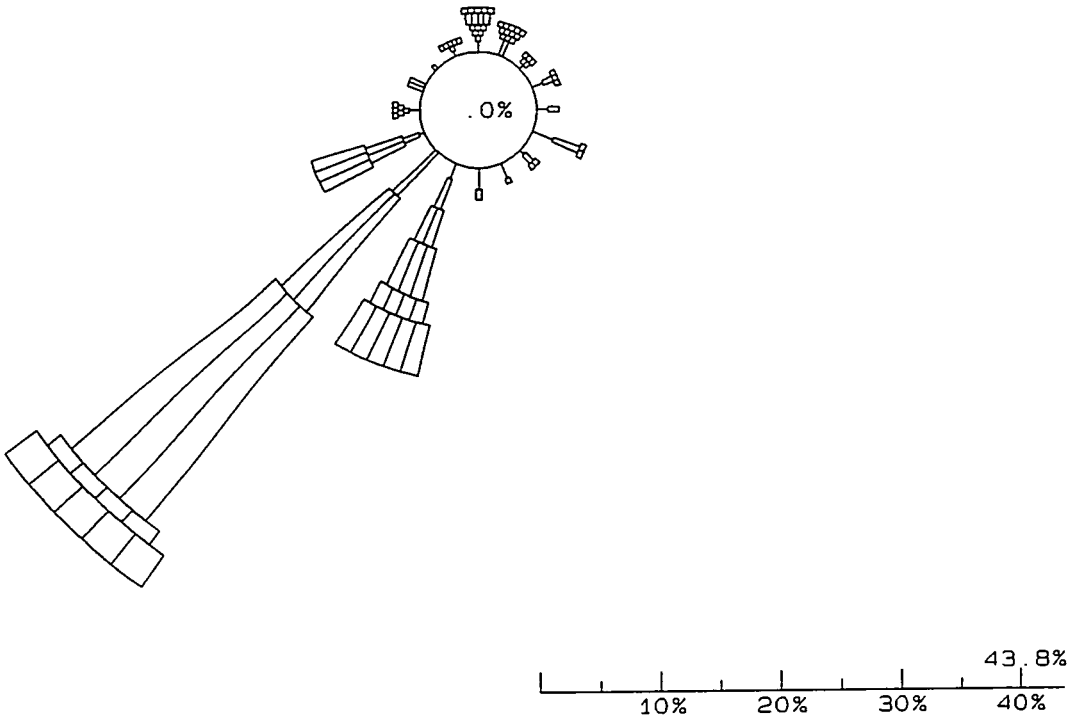
WIND SPEED CLASSES (MPS)

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

96.8% DATA RECOVERED
OF WHICH 29.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
5/ 1/1996 - 5/31/1996
1000 - 1600



WIND SPEED CLASSES (MPS)

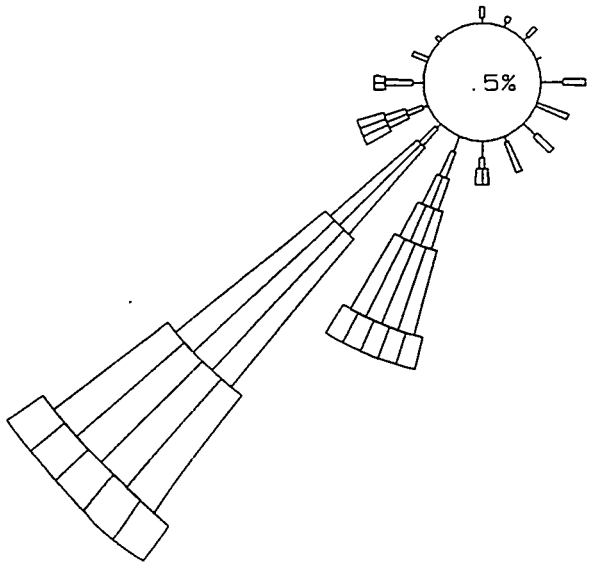
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 29.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
6/ 1/1996 - 6/30/1996
1000 - 1600

N



45.2%
10% 20% 30% 40%

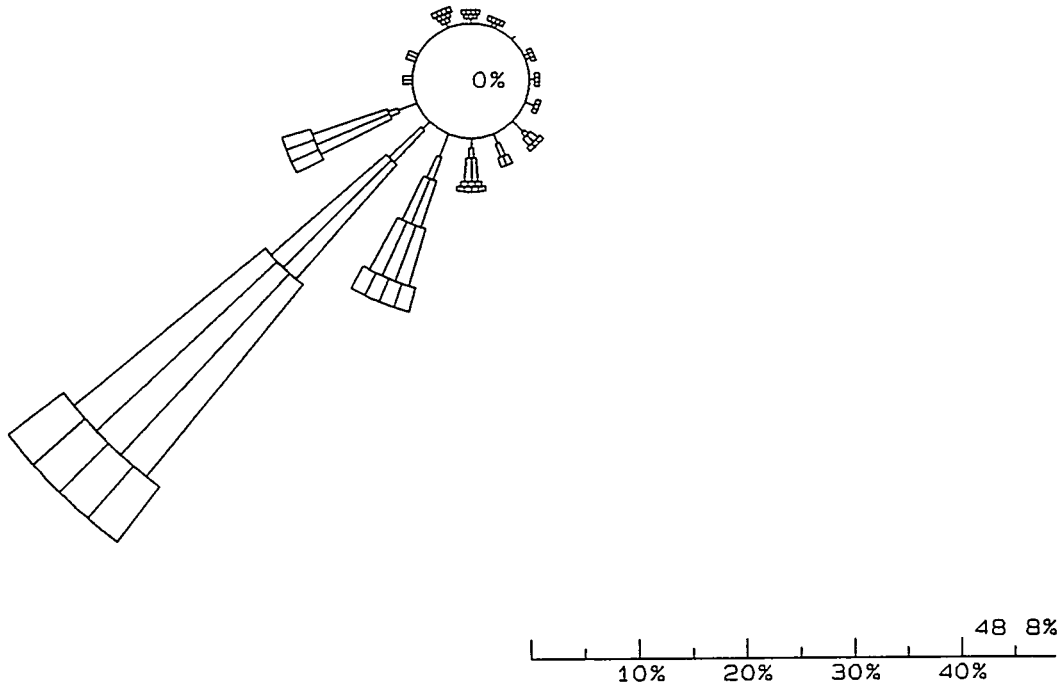
WIND SPEED CLASSES (MPS)

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

100.0% DATA RECOVERED
OF WHICH 29.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
7/ 1/1996 - 7/31/1996
1000 - 1600



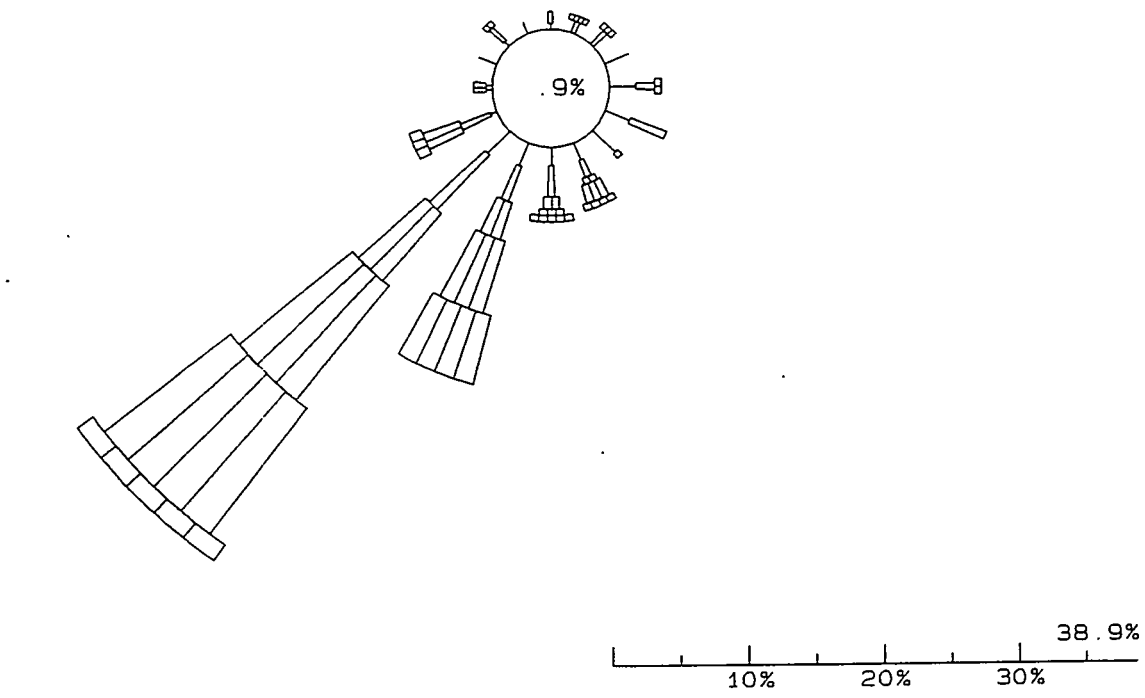
WIND SPEED CLASSES (MPS)

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

100.0% DATA RECOVERED
OF WHICH 29.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
8/ 1/1996 - 8/31/1996
1000 - 1600



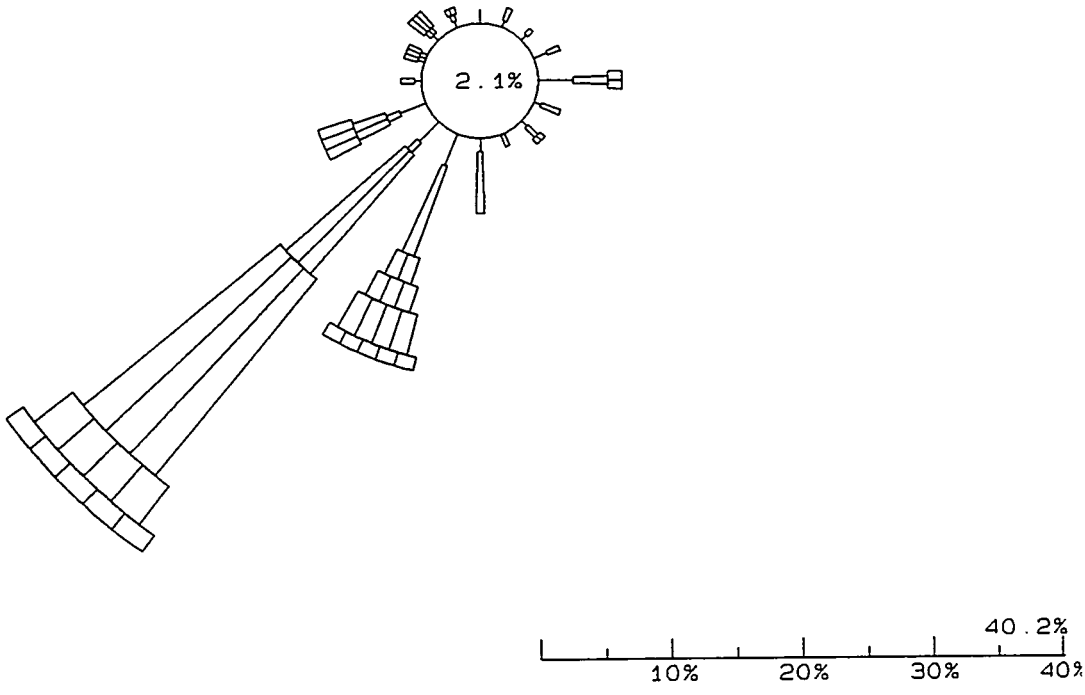
WIND SPEED CLASSES (MPS)

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

98.4% DATA RECOVERED
OF WHICH 28.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
9/ 1/1996 - 9/30/1996
1000 - 1600



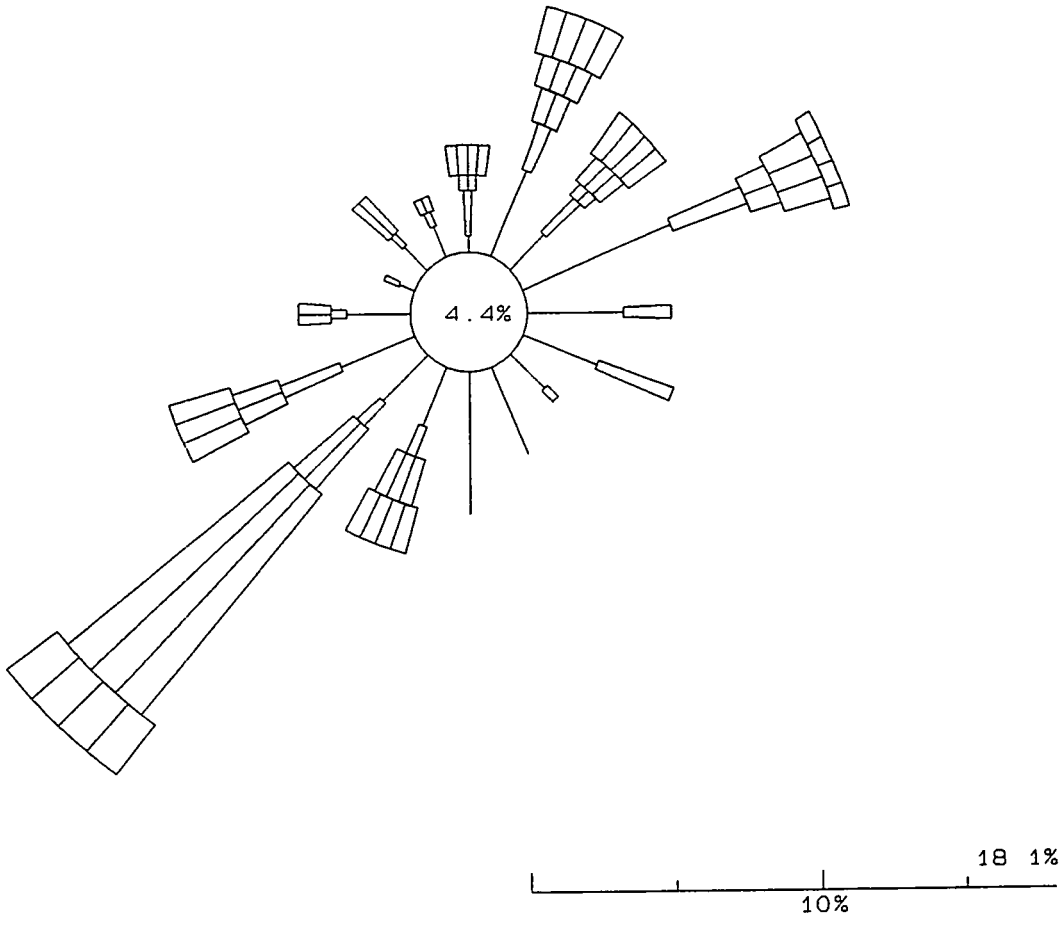
WIND SPEED CLASSES (MPS)

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

90.4% DATA RECOVERED
OF WHICH 29.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
10/ 1/1996 - 10/31/1996
1000 - 1600



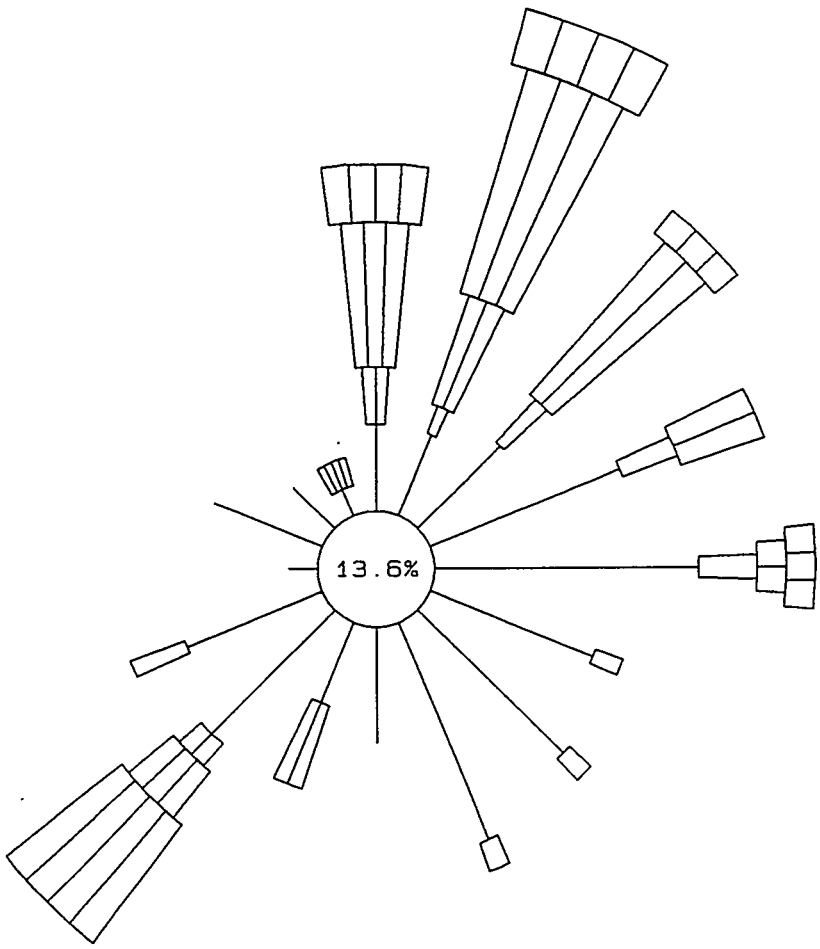
WIND SPEED CLASSES (MPS)

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

84.1% DATA RECOVERED
OF WHICH 29.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
11/ 1/1996 - 11/30/1996
1000 - 1600



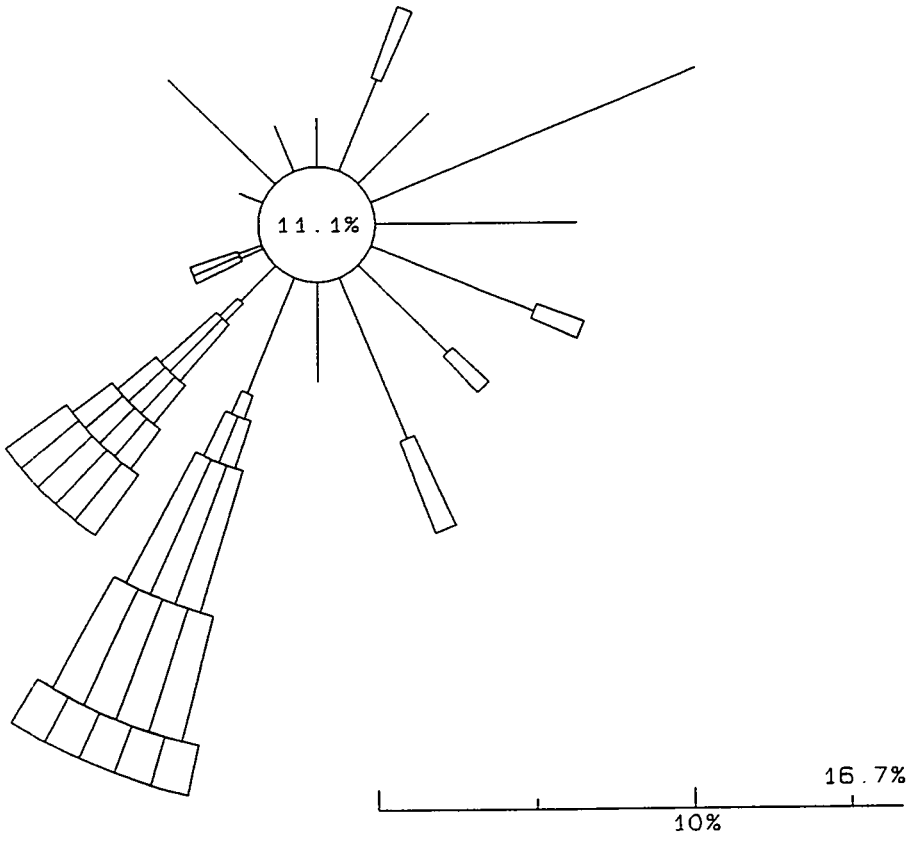
WIND SPEED CLASSES (MPS)

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

75.1% DATA RECOVERED
OF WHICH 28.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Late Mid-Day
12/ 1/1996 - 12/31/1996
1000 - 1600



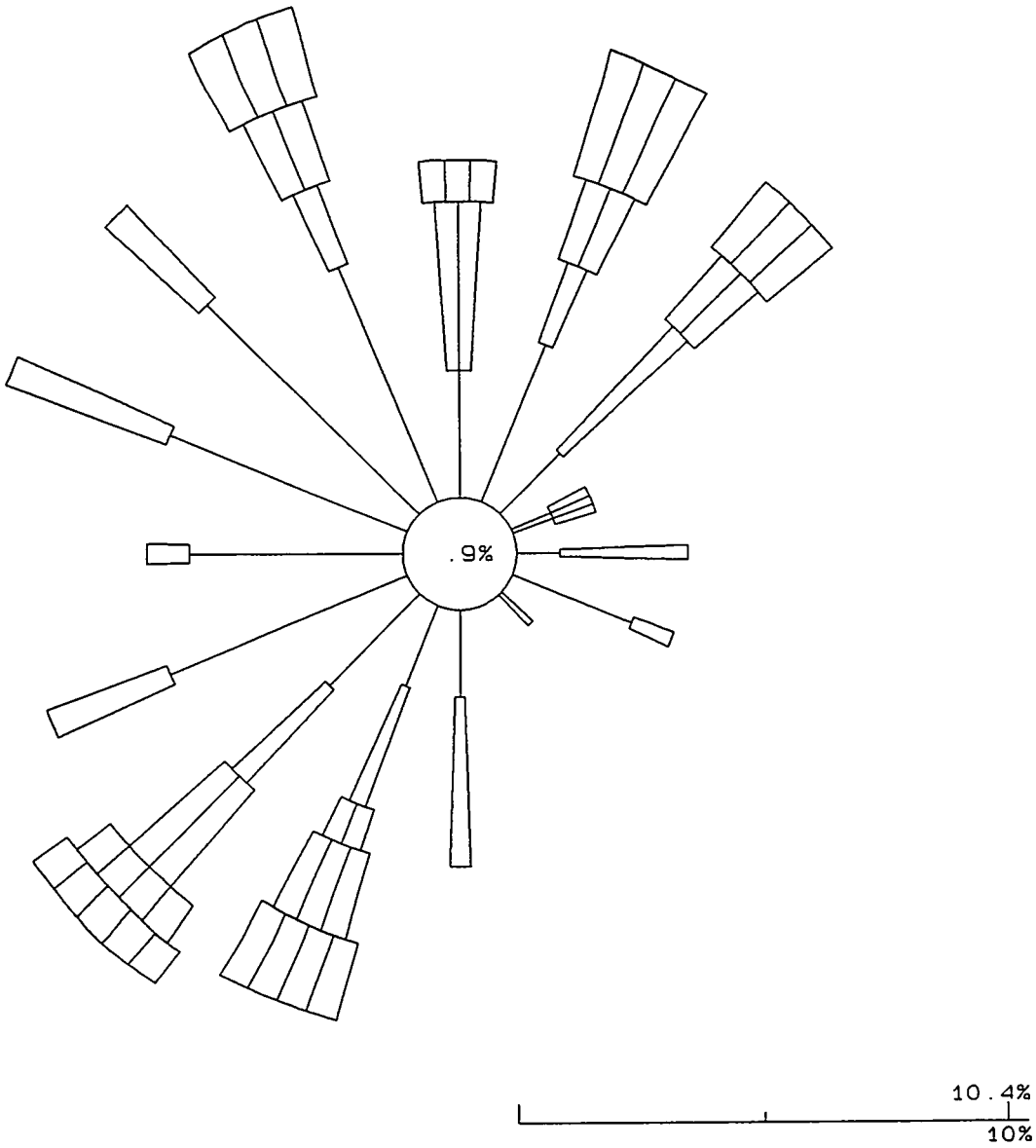
WIND SPEED CLASSES (MPS)

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

58.7% DATA RECOVERED
OF WHICH 28.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
1/ 1/1996 - 1/31/1996
1600 - 2000



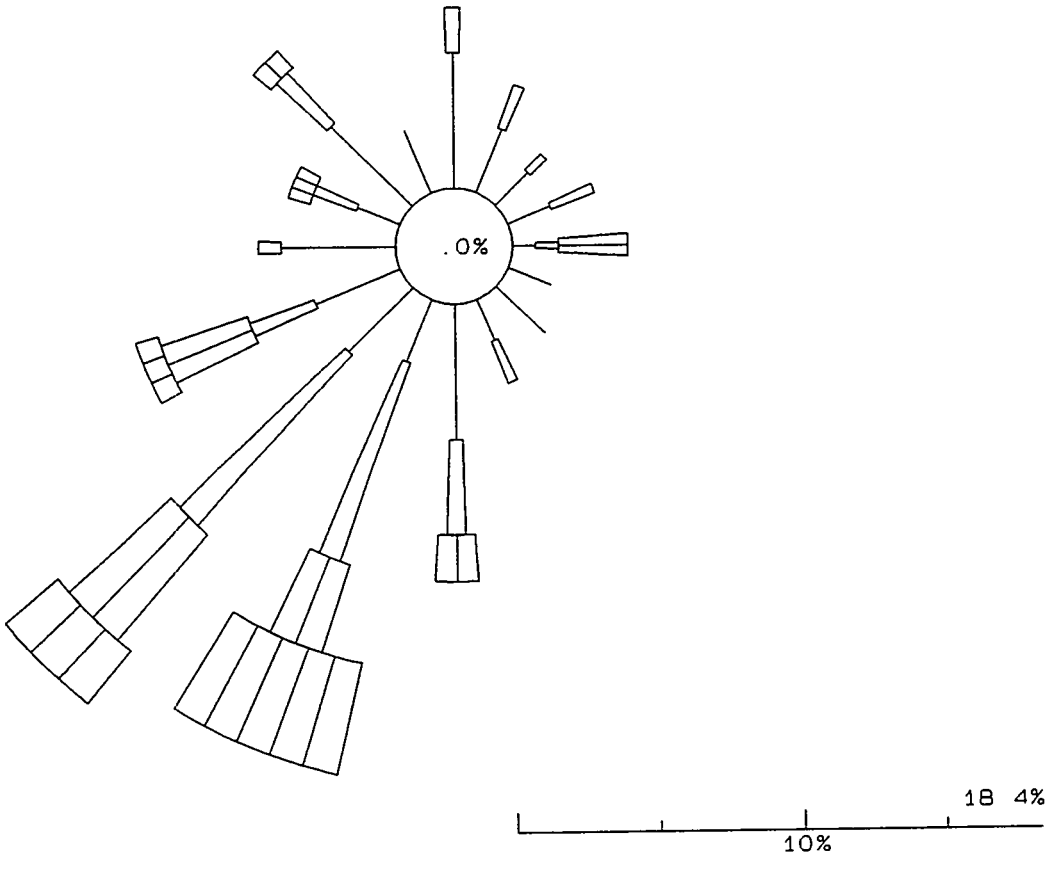
WIND SPEED CLASSES (MPS)

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

74.2% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
2/ 1/1996 - 2/29/1996
1600 - 2000



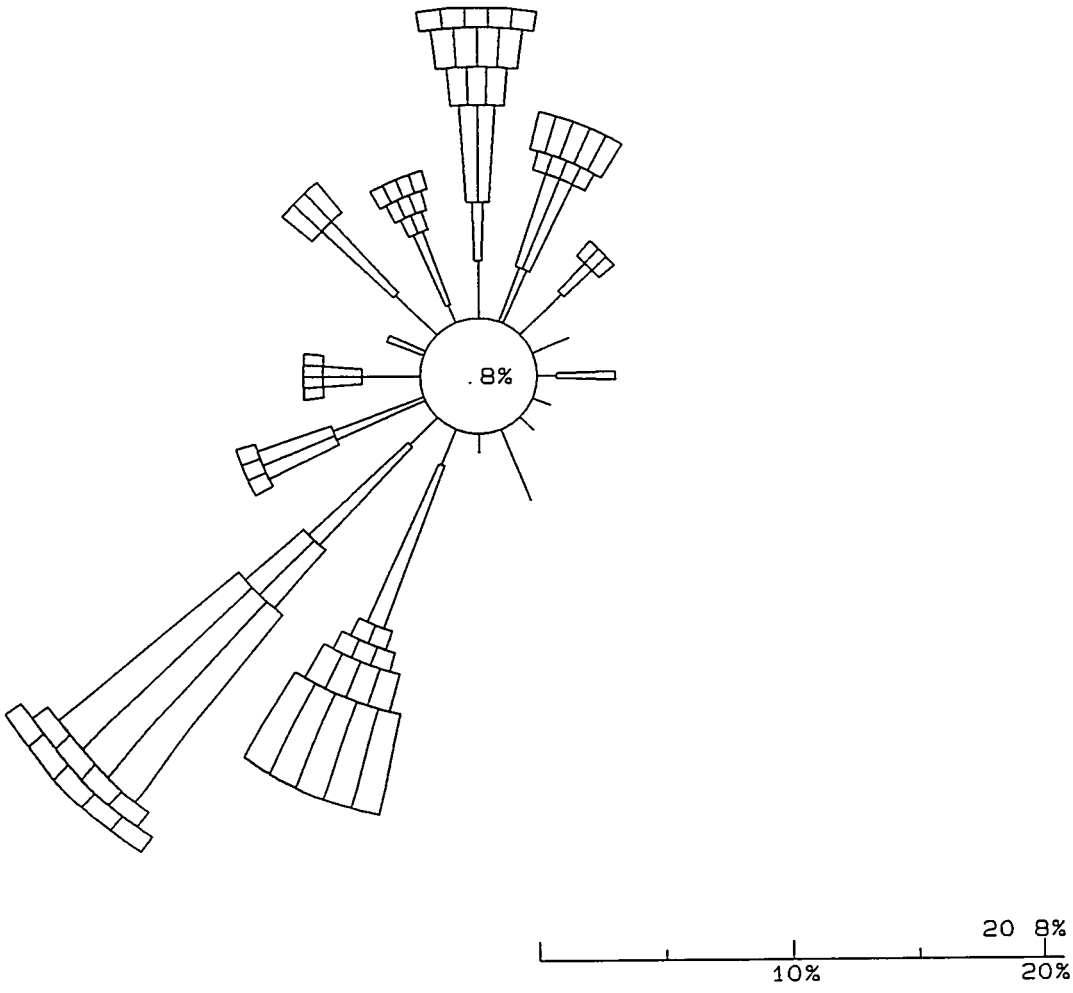
WIND SPEED CLASSES (MPS)

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

83.8% DATA RECOVERED
OF WHICH 21.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
3/ 1/1996 - 3/31/1996
1600 - 2000



WIND SPEED CLASSES (MPS)

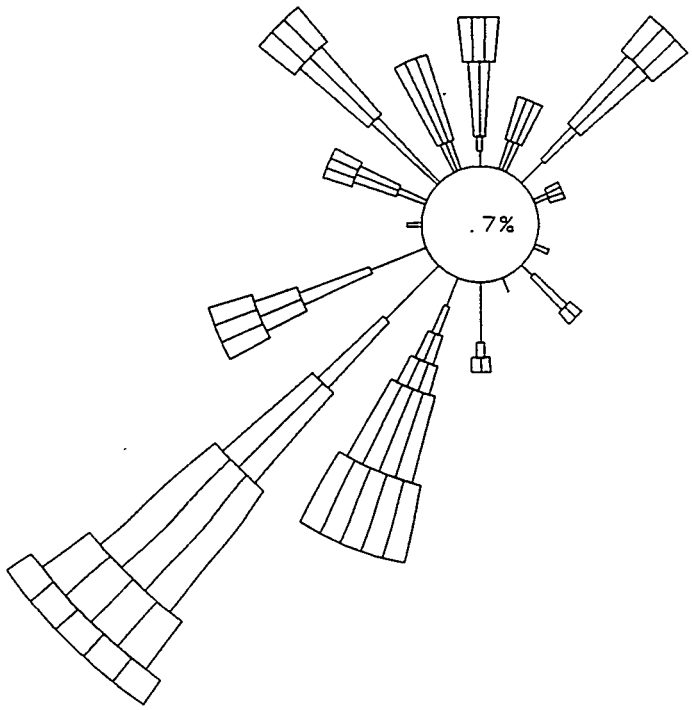
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	0	3.3< WS <= 5.4
4	0	5.4< WS <= 8.5
5	0	8.5< WS <=10.8
6	0	10.8< WS

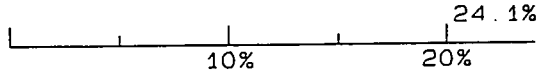
82.7% DATA RECOVERED
OF WHICH 21.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
4/ 1/1996 - 4/30/1996
1600 - 2000

N





WIND SPEED CLASSES (MPS)

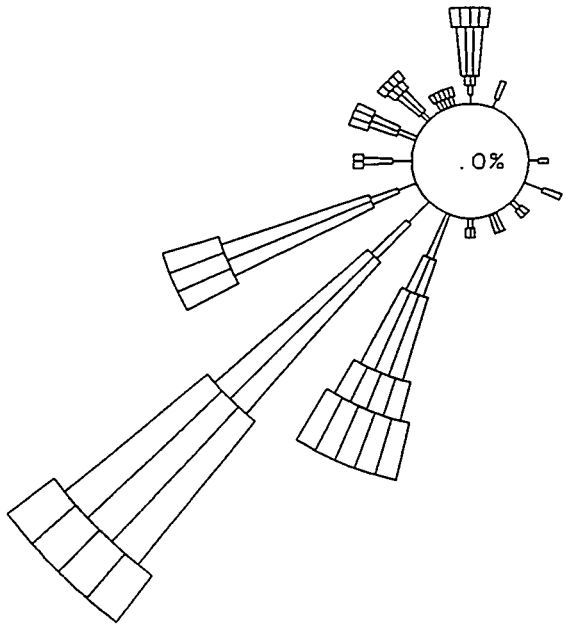
CALM	o	WS <= .5
1	!	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

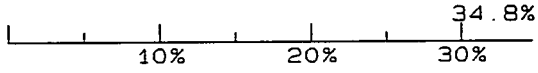
96.8% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
5/ 1/1996 - 5/31/1996
1600 - 2000

N





WIND SPEED CLASSES (MPS)

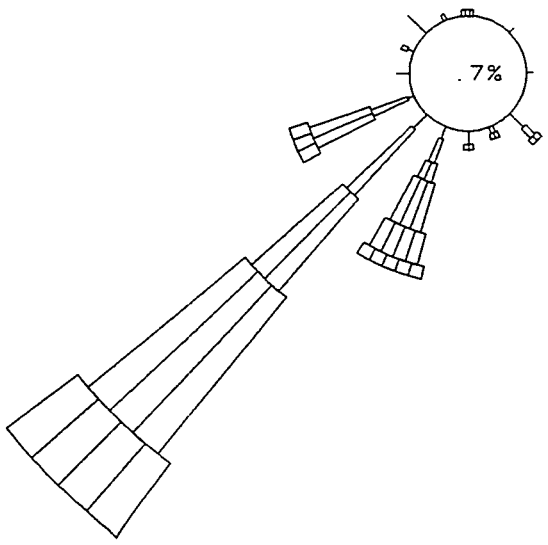
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

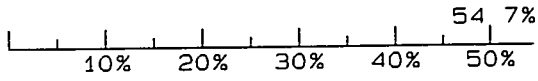
100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
6/ 1/1996 - 6/30/1996
1600 - 2000

N





WIND SPEED CLASSES (MPS)

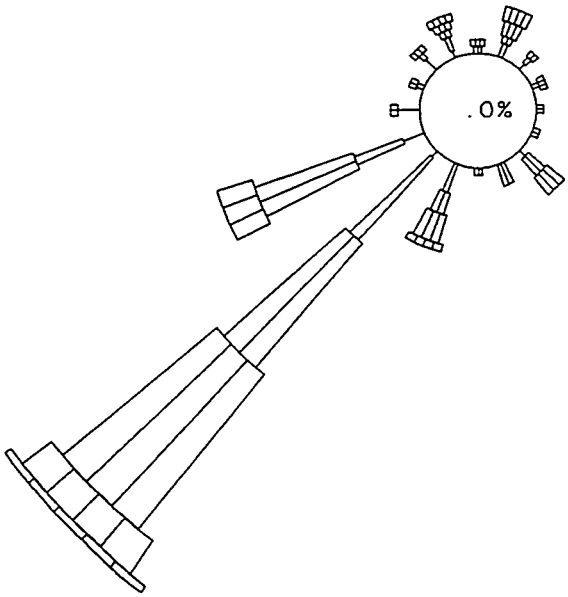
CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
7/ 1/1996 - 7/31/1996
1600 - 2000

N



45.8%
10% 20% 30% 40%

WIND SPEED CLASSES (MPS)

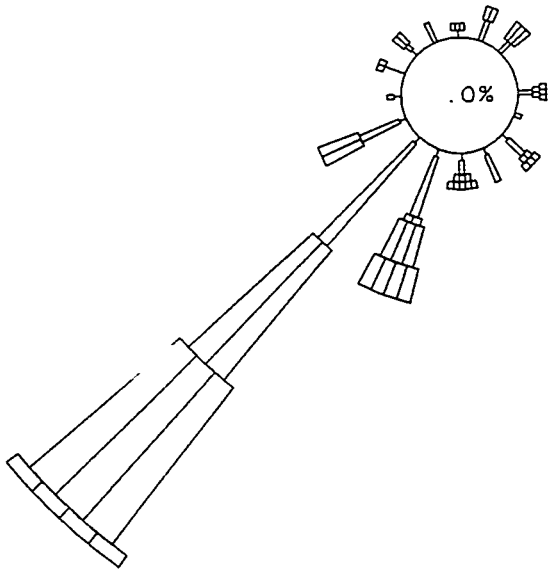
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

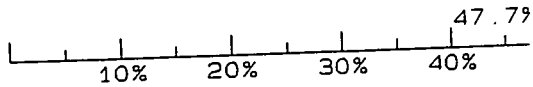
100.0% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
8/ 1/1996 - 8/31/1996
1600 - 2000

N





WIND SPEED CLASSES (MPS)

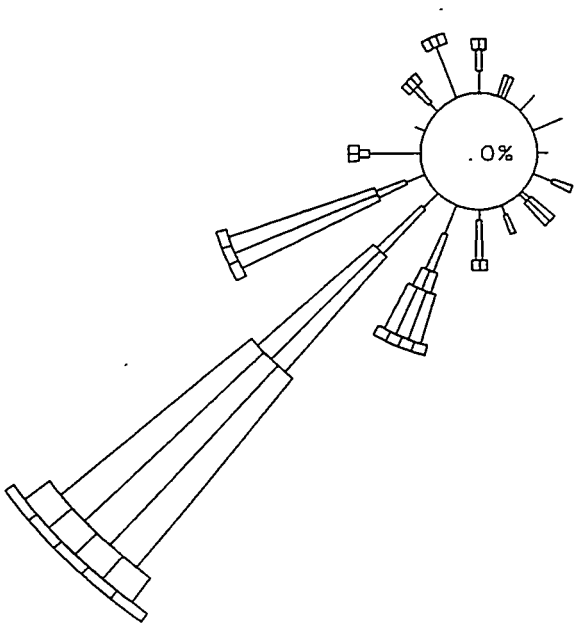
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

98.4% DATA RECOVERED
OF WHICH 21.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
9/ 1/1996 - 9/30/1996
1600 - 2000

N



37.8%
10% 20% 30%

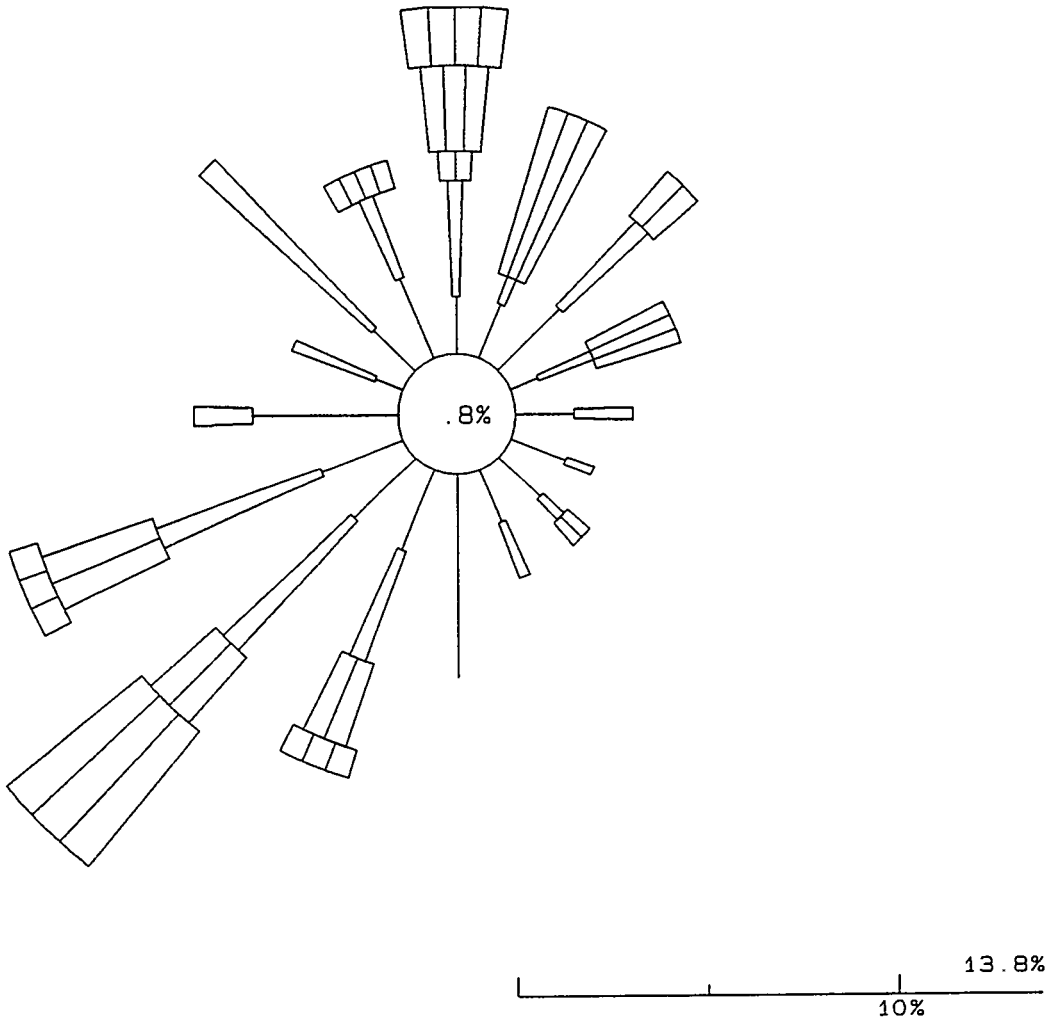
WIND SPEED CLASSES (MPS)

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

90.4% DATA RECOVERED
OF WHICH 20.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
10/ 1/1996 - 10/31/1996
1600 - 2000



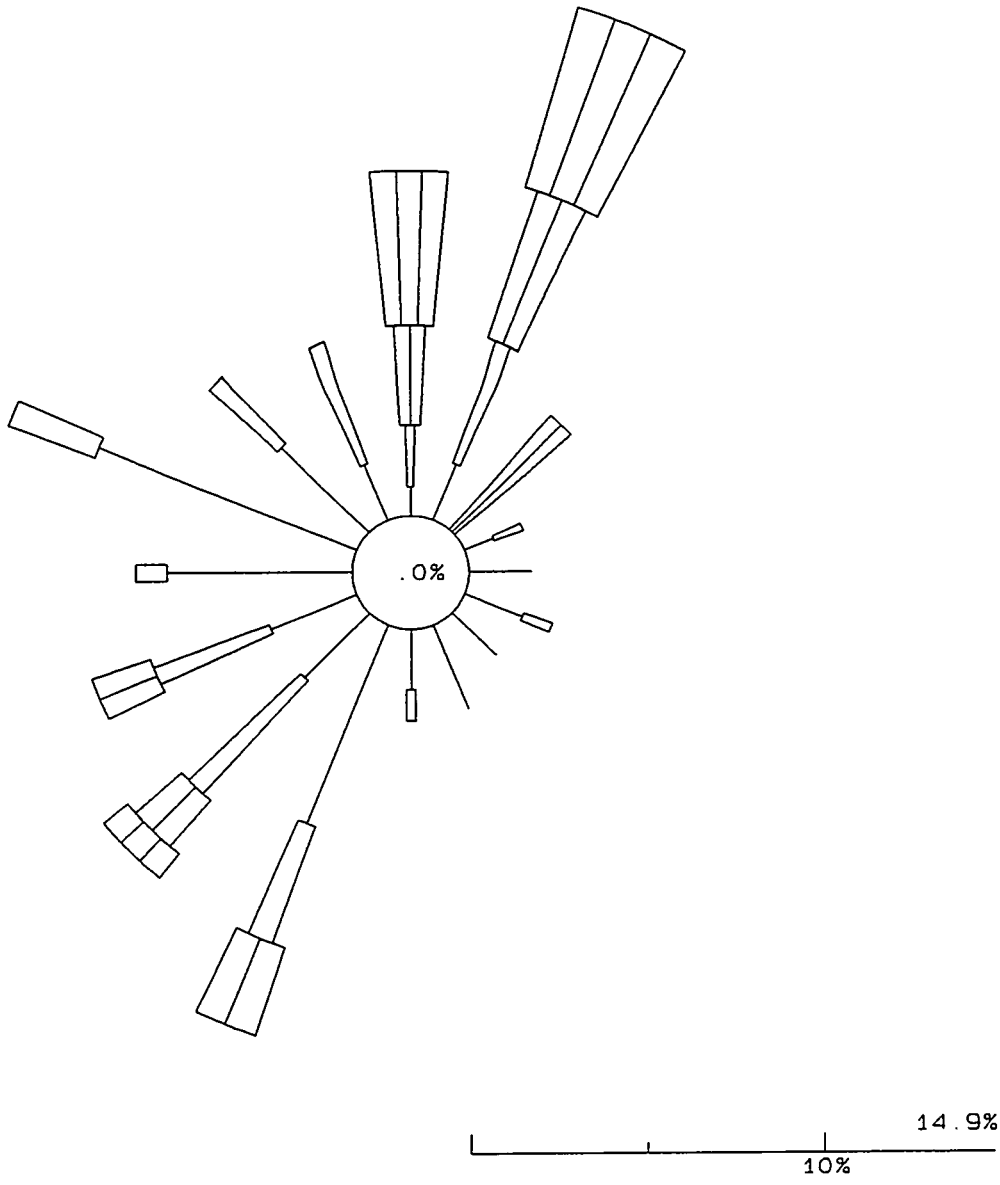
WIND SPEED CLASSES (MPS)

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

84.1% DATA RECOVERED
OF WHICH 20.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
11/ 1/1996 - 11/30/1996
1600 - 2000



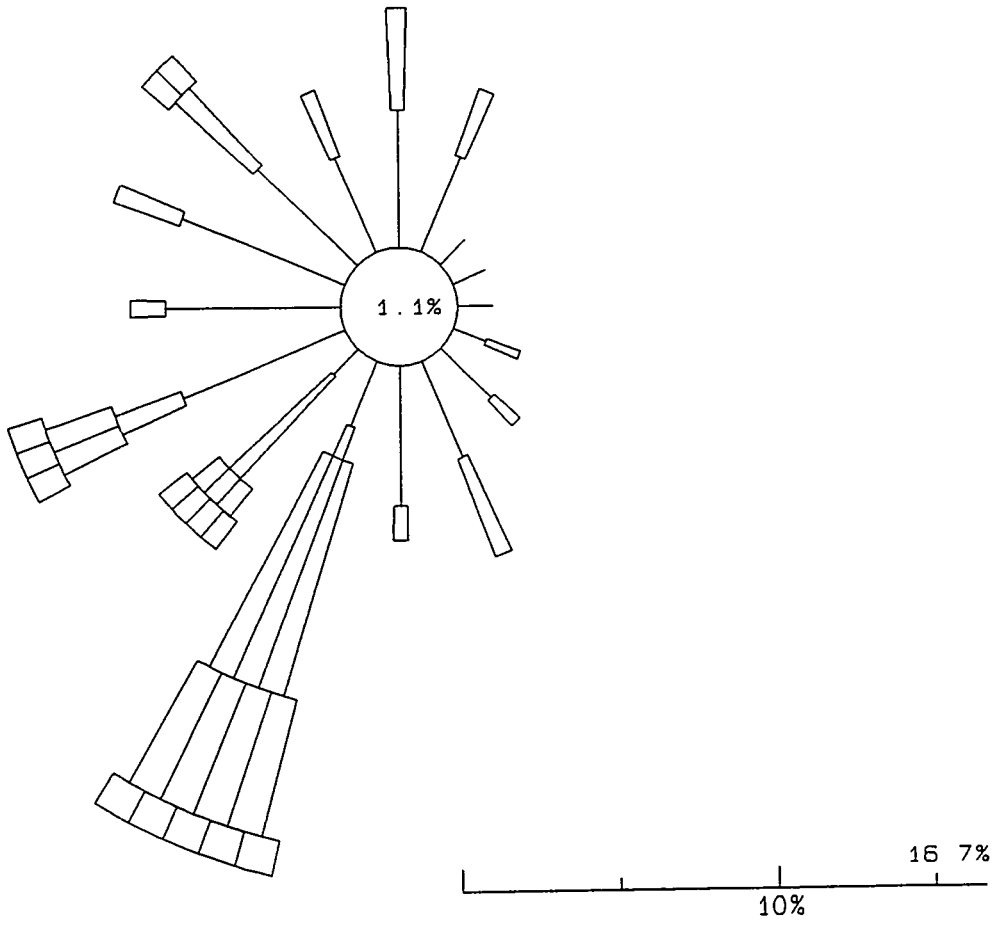
WIND SPEED CLASSES (MPS)

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

75.1% DATA RECOVERED
OF WHICH 21.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Evening Transition
12/ 1/1996 - 12/31/1996
1600 - 2000



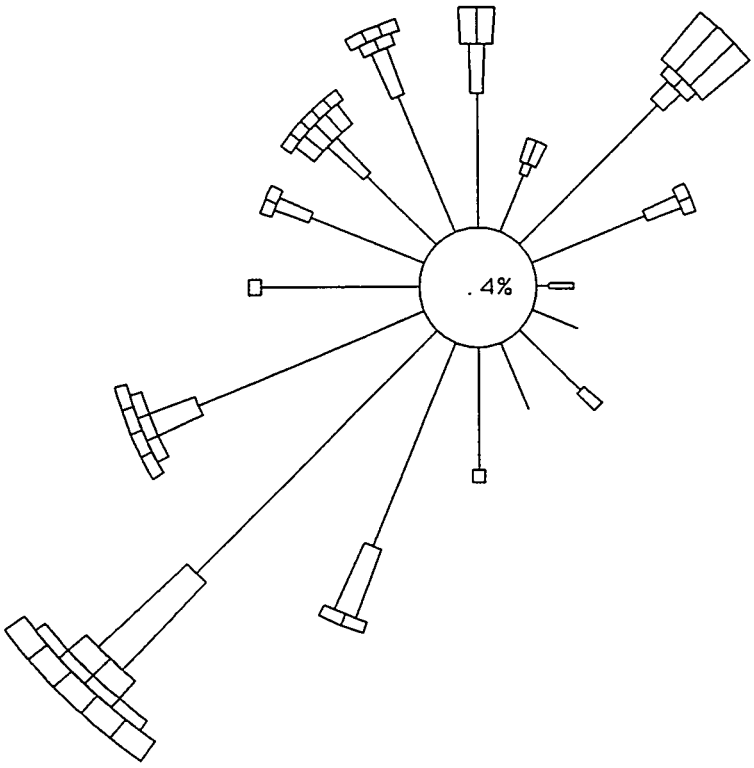
WIND SPEED CLASSES (MPS)

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

58.7% DATA RECOVERED
OF WHICH 20.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
1/ 1/1996 - 1/31/1996
2000 - 600



WIND SPEED CLASSES (MPS)

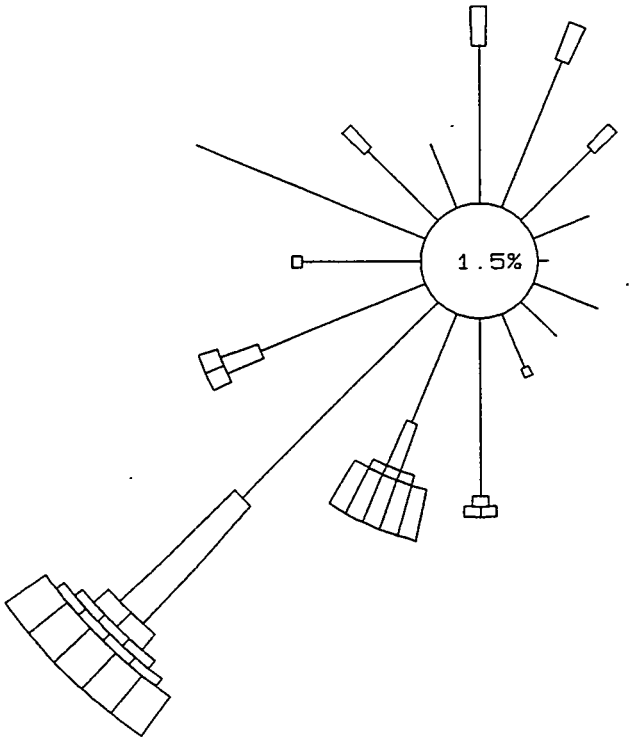
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

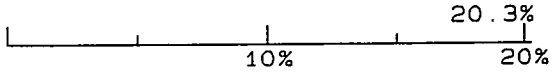
74.2% DATA RECOVERED
OF WHICH 45.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
2/ 1/1996 - 2/29/1996
2000 - 600

N





WIND SPEED CLASSES (MPS)

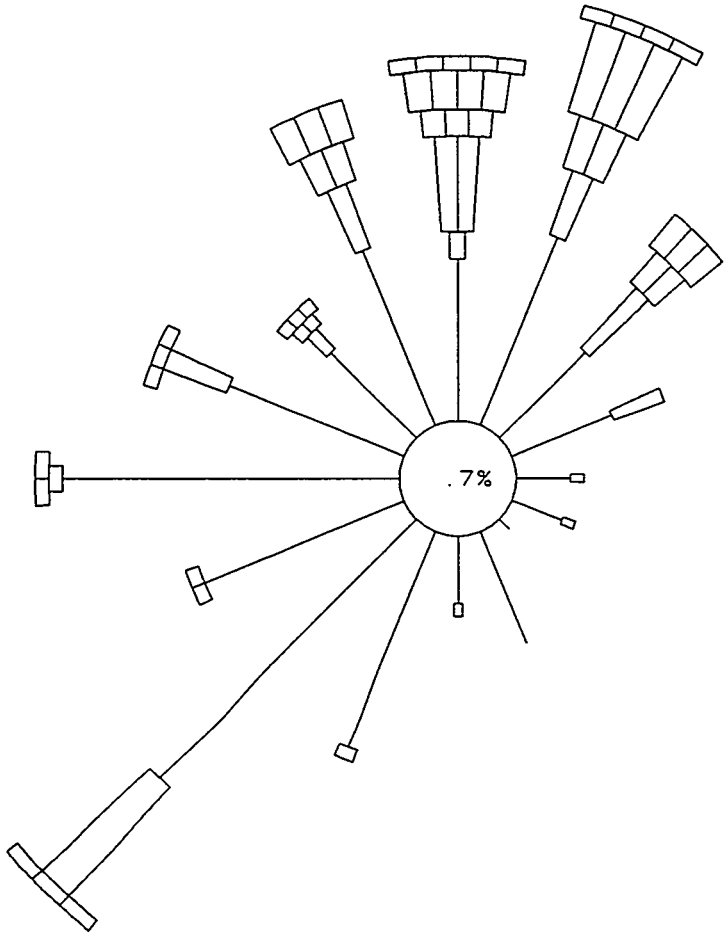
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

83.8% DATA RECOVERED
OF WHICH 44.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
3/ 1/1996 - 3/31/1996
2000 - 600

N



14.0%
10%

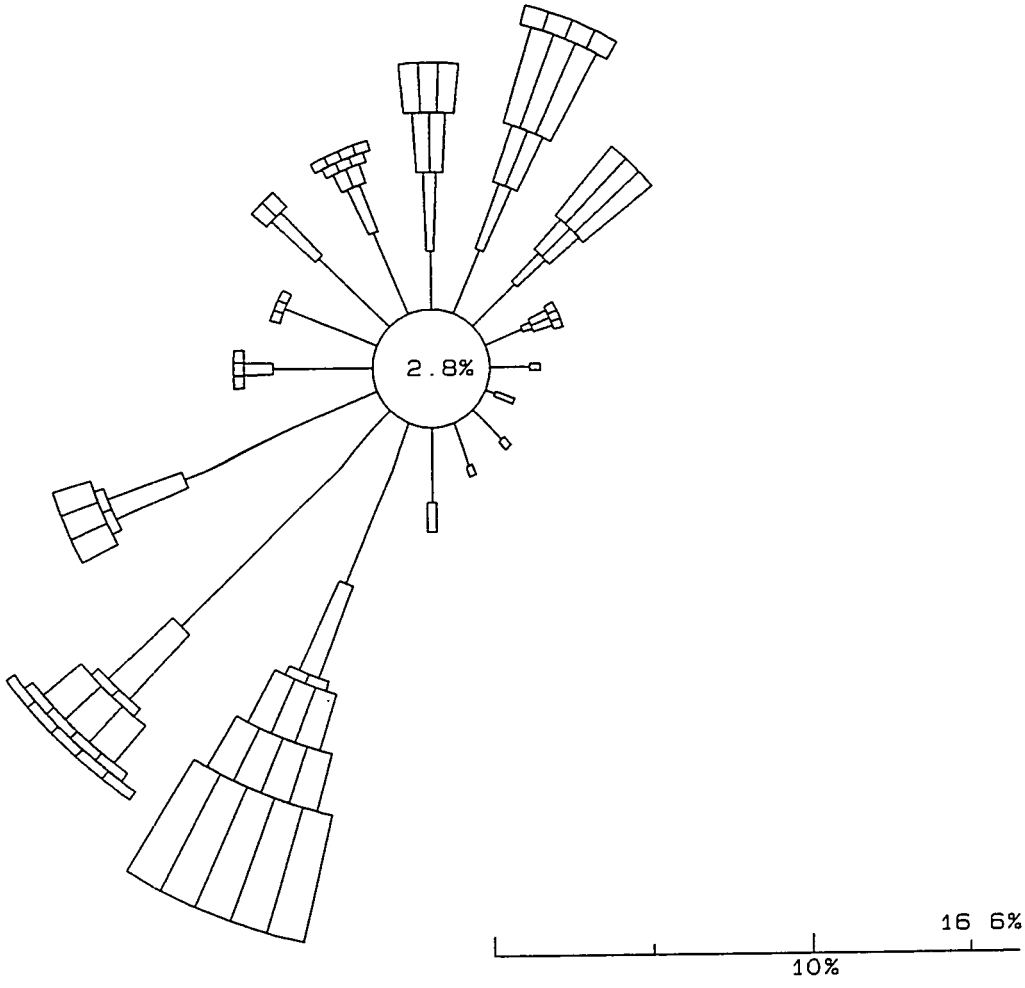
WIND SPEED CLASSES (MPS)

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

82.7% DATA RECOVERED
OF WHICH 45.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
4/ 1/1996 - 4/30/1996
2000 - 600



WIND SPEED CLASSES (MPS)

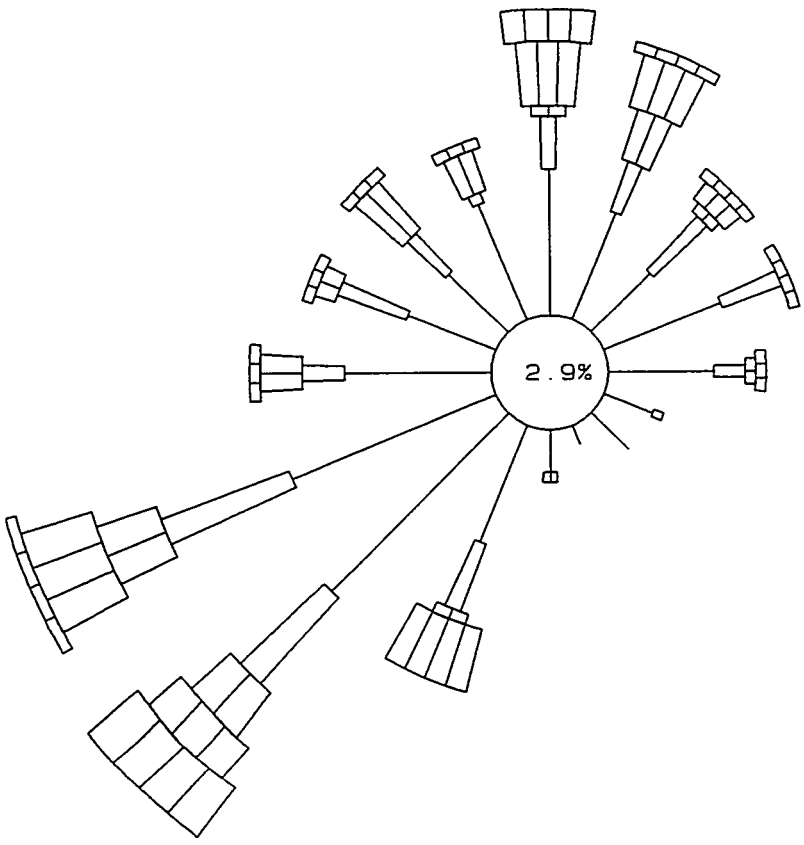
CALM	o	WS <= 5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.8% DATA RECOVERED
OF WHICH 45.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
5/ 1/1996 - 5/31/1996
2000 - 600

N



14.7%
10%

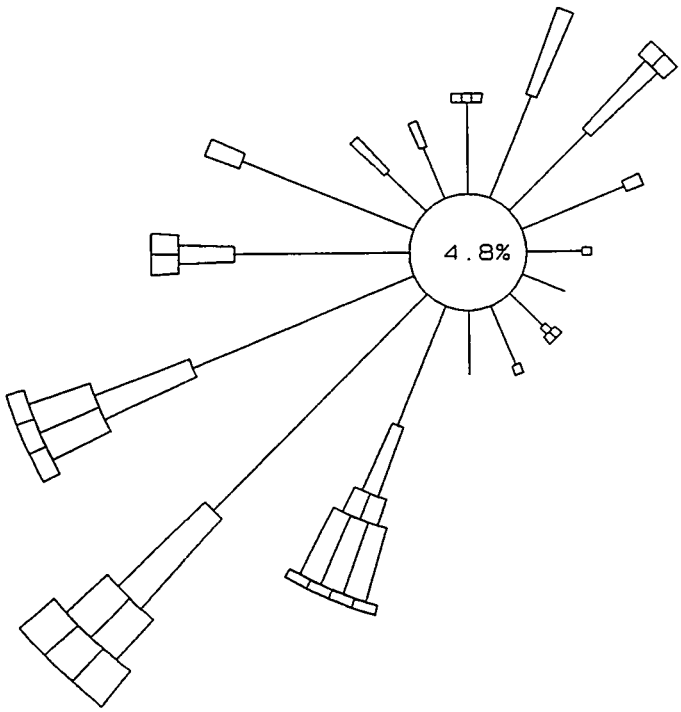
WIND SPEED CLASSES (MPS)

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 45.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
6/ 1/1996 - 6/30/1996
2000 - 600



WIND SPEED CLASSES (MPS)

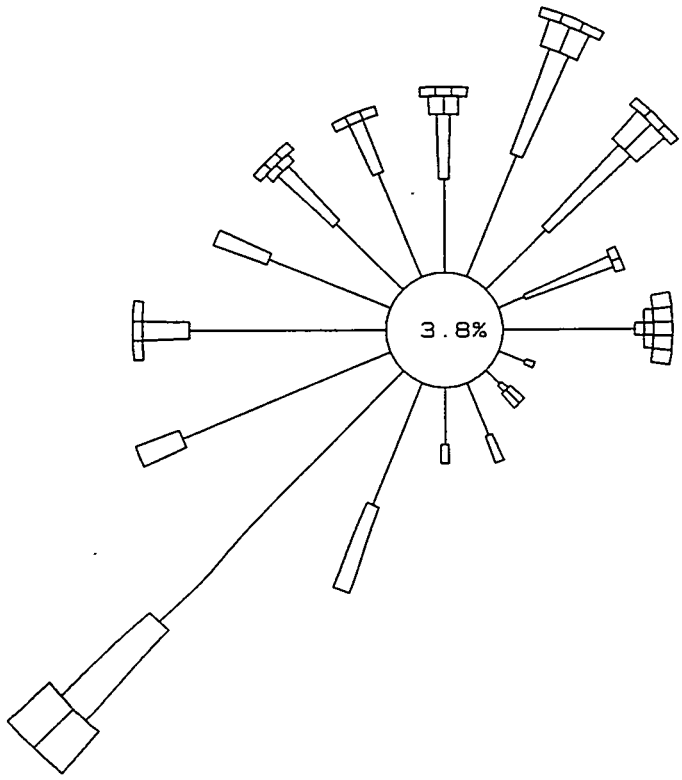
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 45.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
7/ 1/1996 - 7/31/1996
2000 - 600

N



16.4%
10%

WIND SPEED CLASSES (MPS)

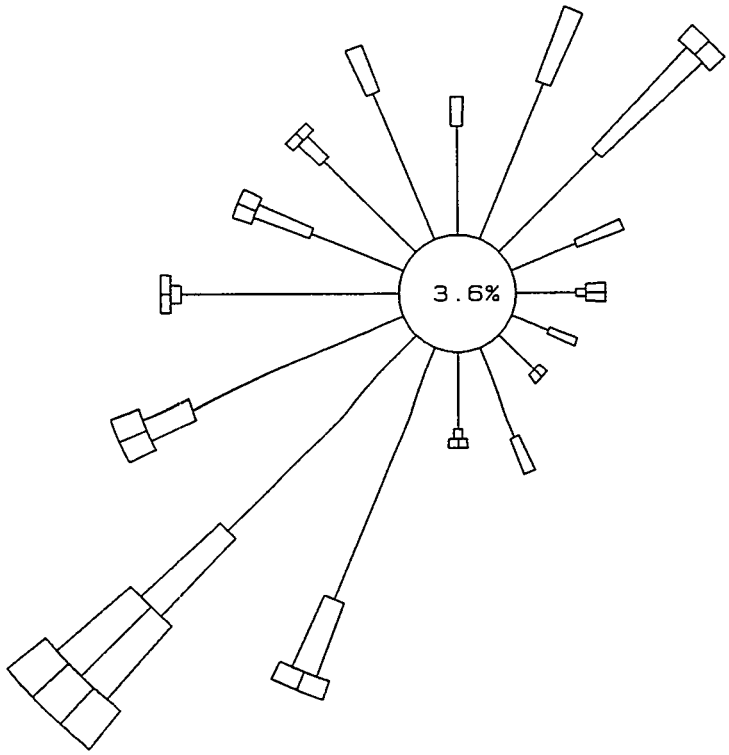
CALM	o	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

100.0% DATA RECOVERED
OF WHICH 45.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
8/ 1/1996 - 8/31/1996
2000 - 600

N



15.7%
10%

WIND SPEED CLASSES (MPS)

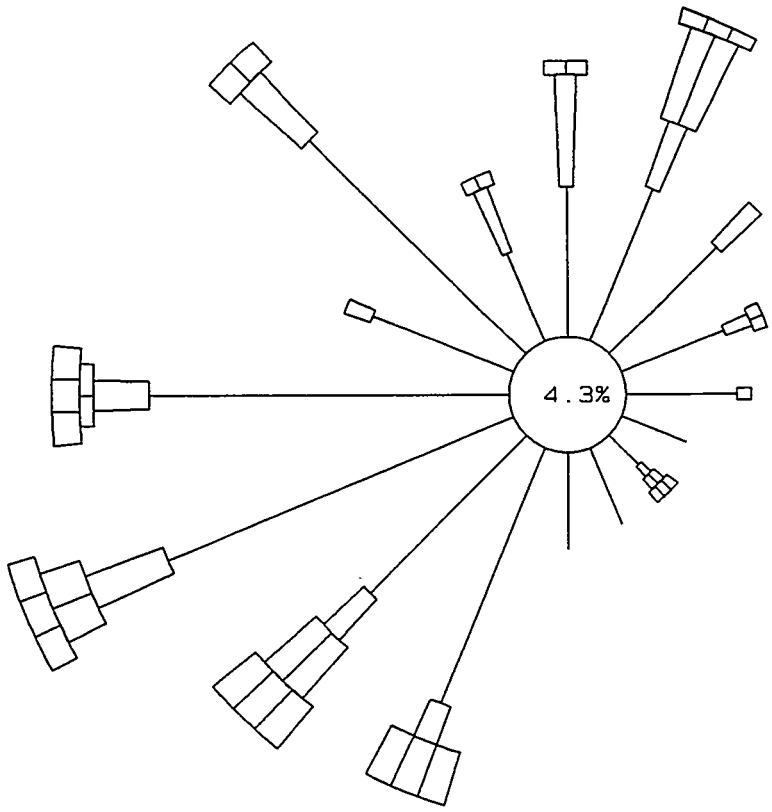
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

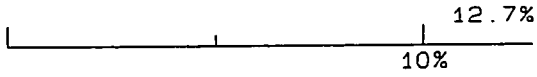
98.4% DATA RECOVERED
OF WHICH 46.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
9/ 1/1996 - 9/30/1996
2000 - 600

N





WIND SPEED CLASSES (MPS)

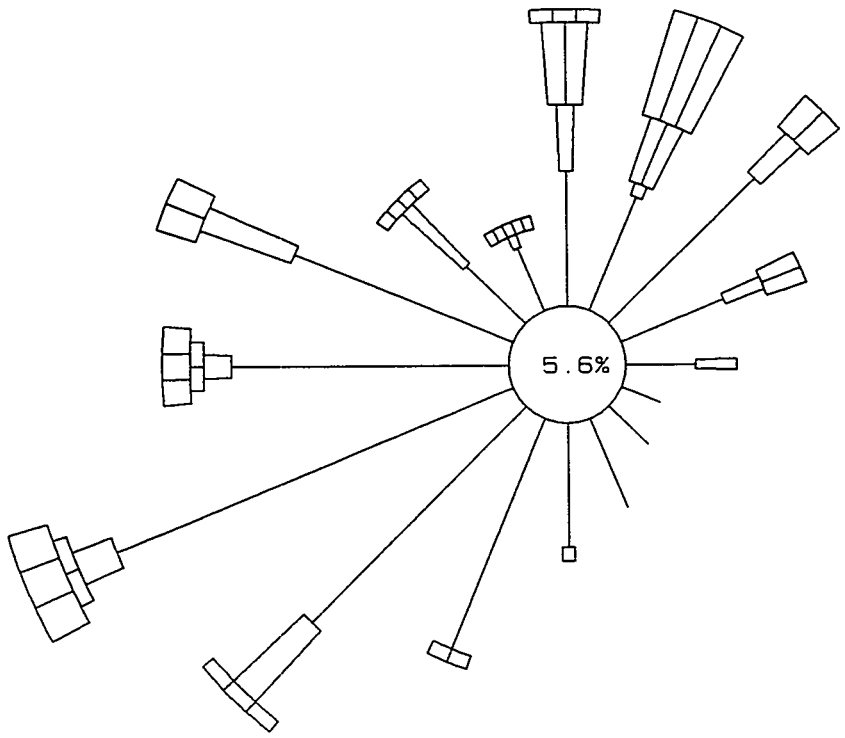
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

90.4% DATA RECOVERED
OF WHICH 46.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
10/ 1/1996 - 10/31/1996
2000 - 600

N



13.2%
10%

WIND SPEED CLASSES (MPS)

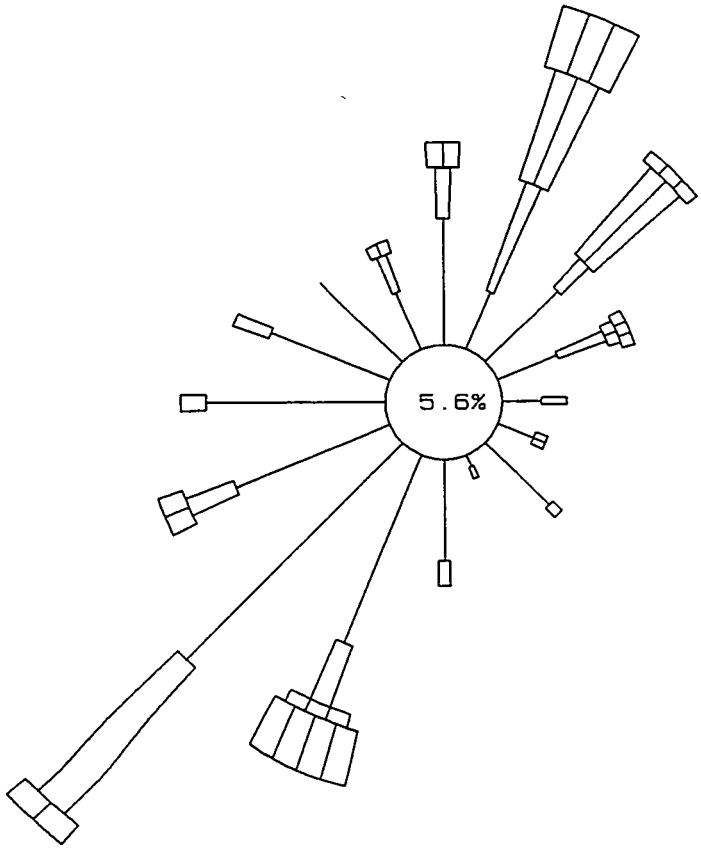
CALM	o	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

84.1% DATA RECOVERED
OF WHICH 46.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
11/ 1/1996 - 11/30/1996
2000 - 600

N



16 3%
10%

WIND SPEED CLASSES (MPS)

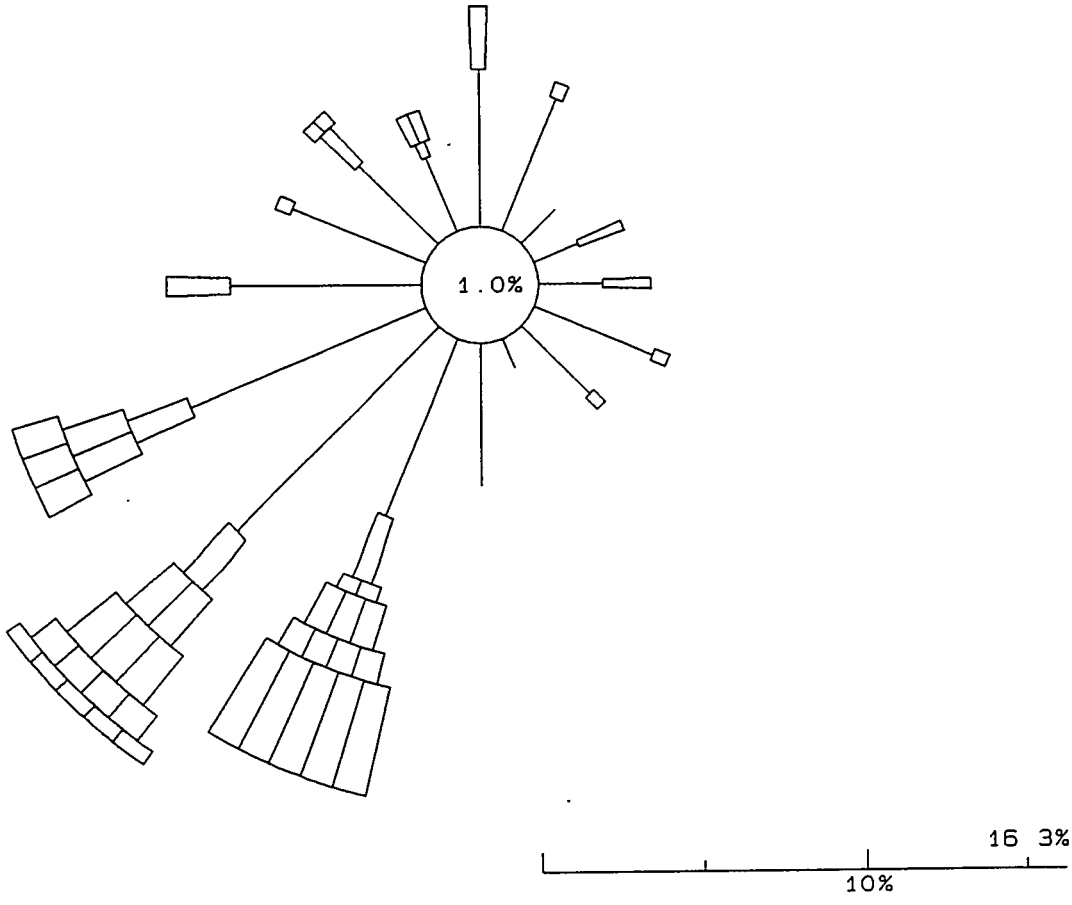
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

75.1% DATA RECOVERED
OF WHICH 46.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Night Time
12/ 1/1996 - 12/31/1996
2000 - 600

N

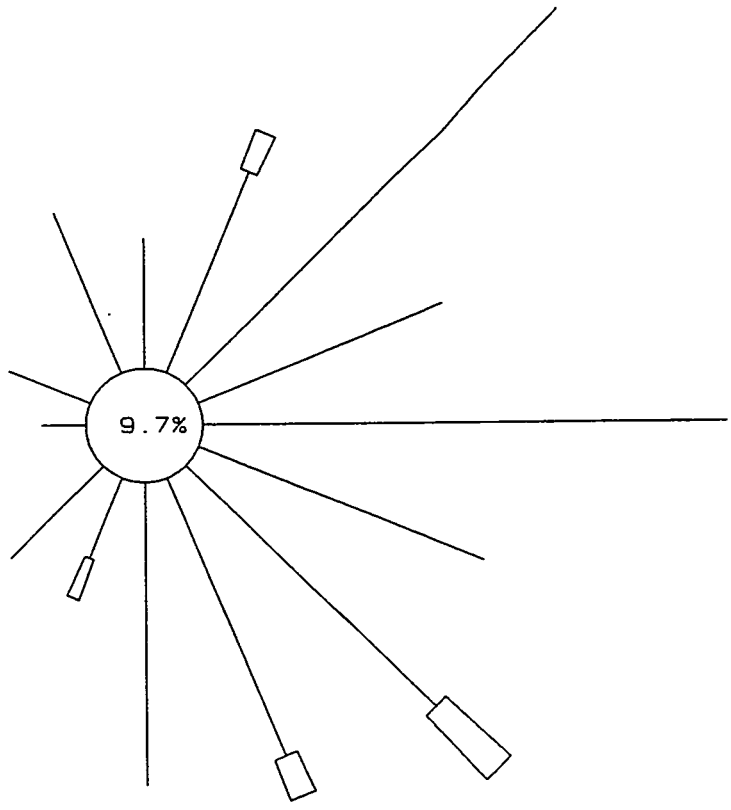


WIND SPEED CLASSES (MPS)

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

58.7% DATA RECOVERED
OF WHICH 46.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
1/ 1/1996 - 1/31/1996
0 - 2400

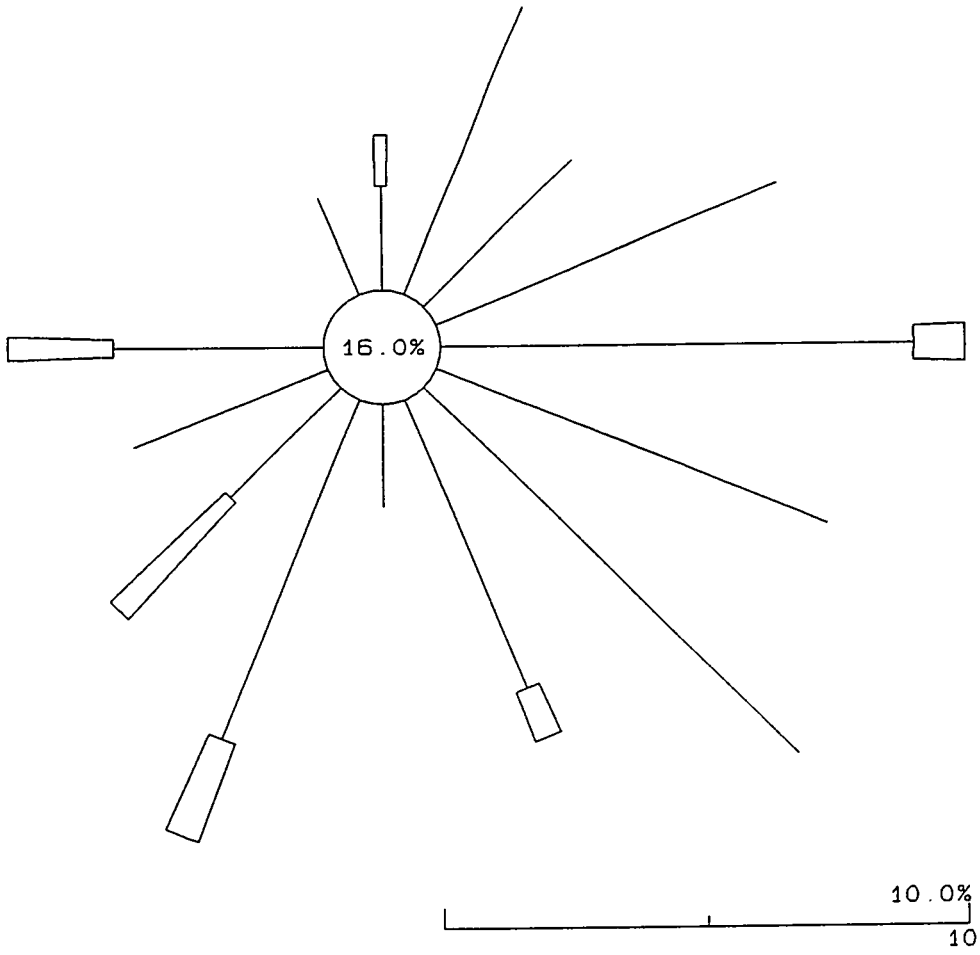


WIND SPEED CLASSES (MPS)

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

74.2% DATA RECOVERED
OF WHICH 16.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
2/ 1/1996 - 2/29/1996
0 - 2400

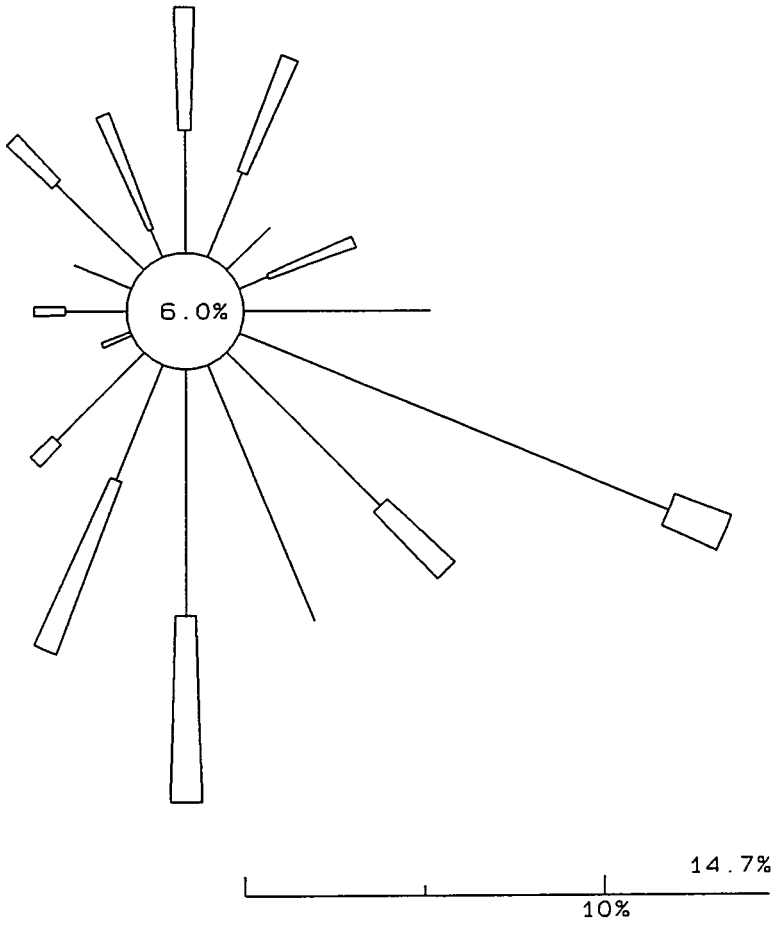


WIND SPEED CLASSES (MPS)

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

83.8% DATA RECOVERED
OF WHICH 17.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
3/ 1/1996 - 3/31/1996
0 - 2400

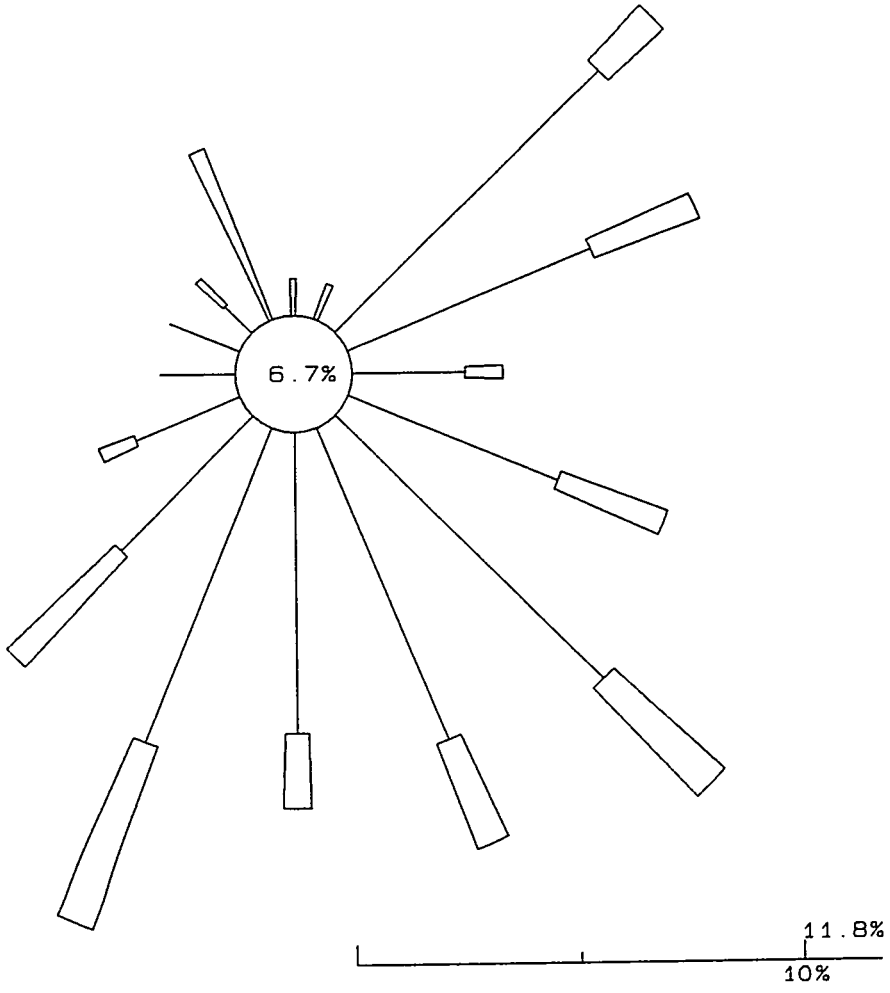


WIND SPEED CLASSES (MPS)

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

82.7% DATA RECOVERED
OF WHICH 18.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
4/ 1/1996 - 4/30/1996
0 - 2400

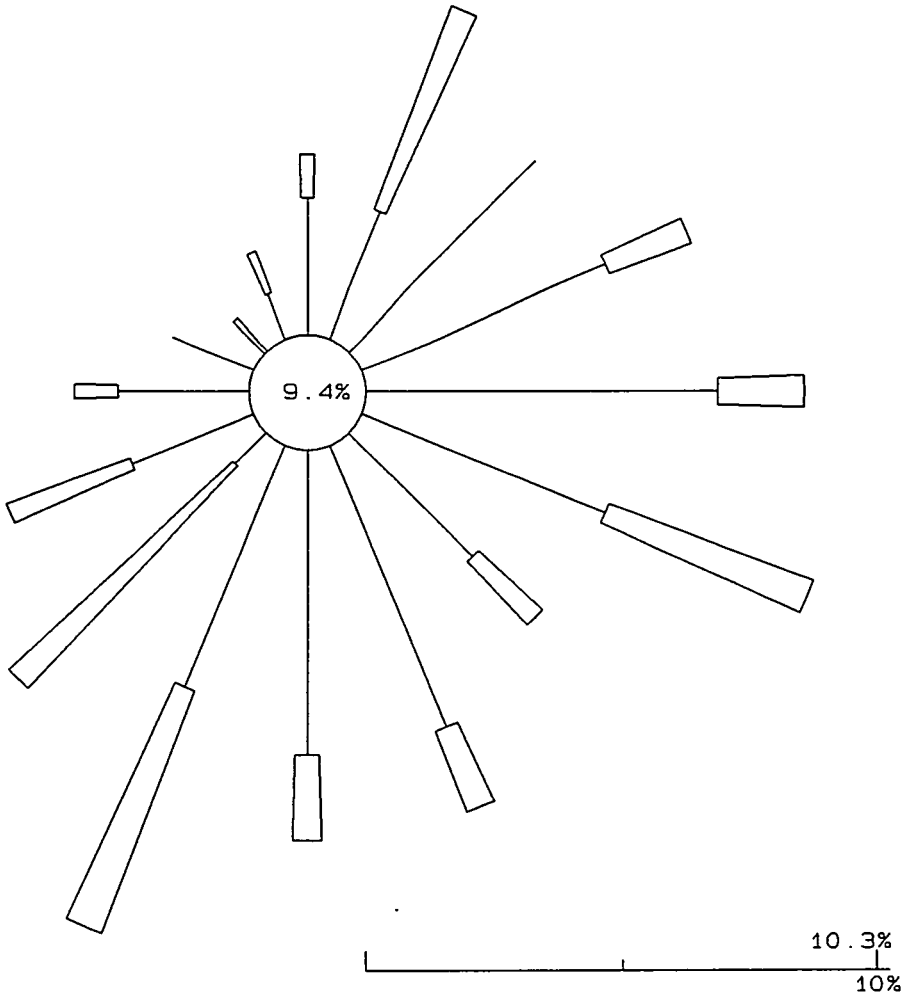


WIND SPEED CLASSES (MPS)

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

96.8% DATA RECOVERED
OF WHICH 17.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
5/ 1/1996 - 5/31/1996
0 - 2400



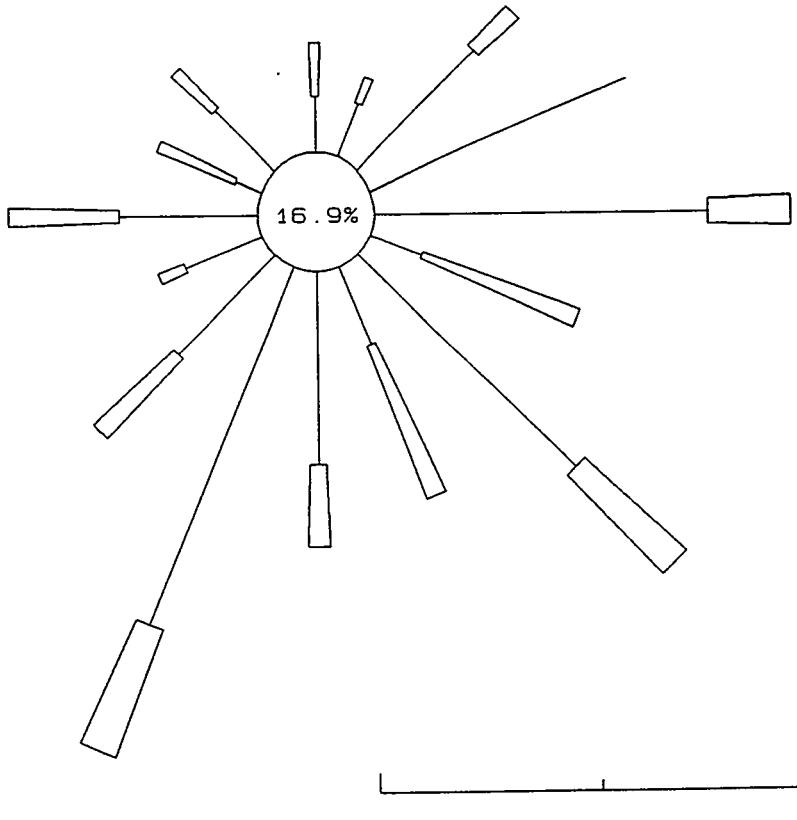
WIND SPEED CLASSES (MPS)

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 15.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
6/ 1/1996 - 6/30/1996
0 - 2400

N

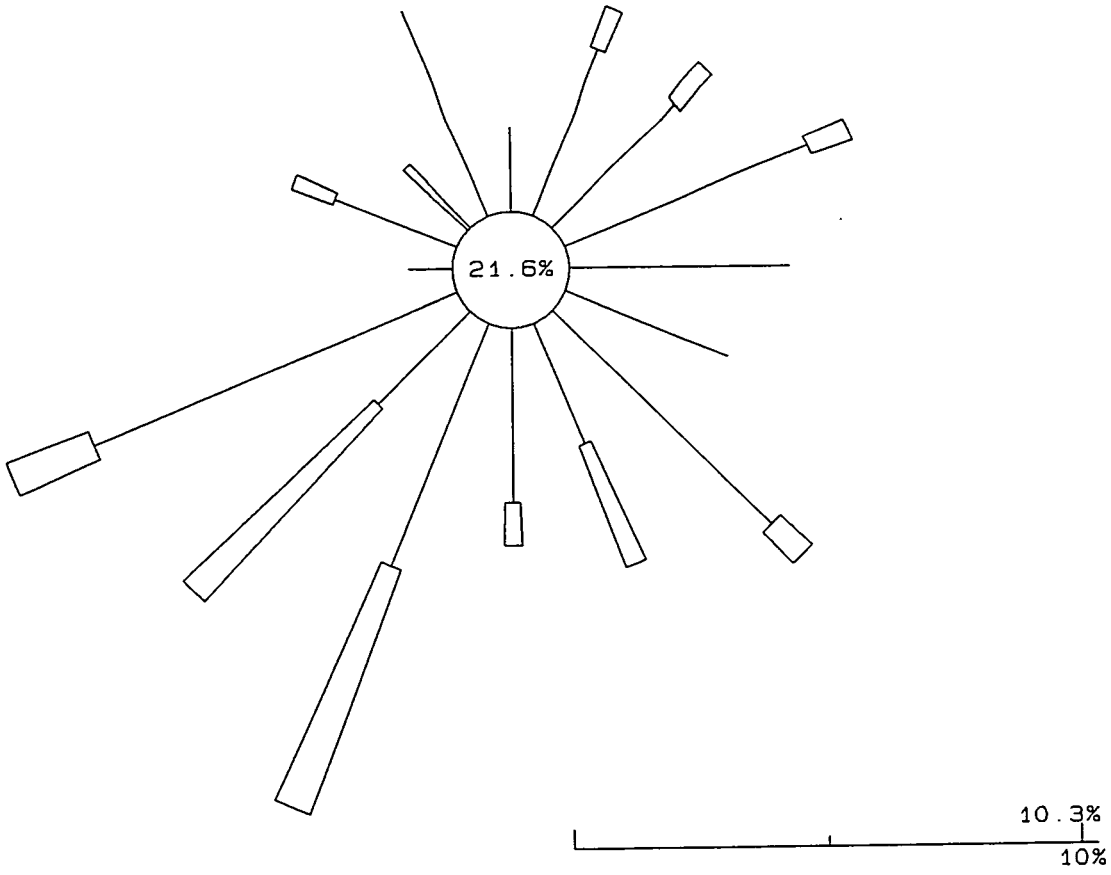


WIND SPEED CLASSES (MPS)

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 22.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
7/ 1/1996 - 7/31/1996
0 - 2400

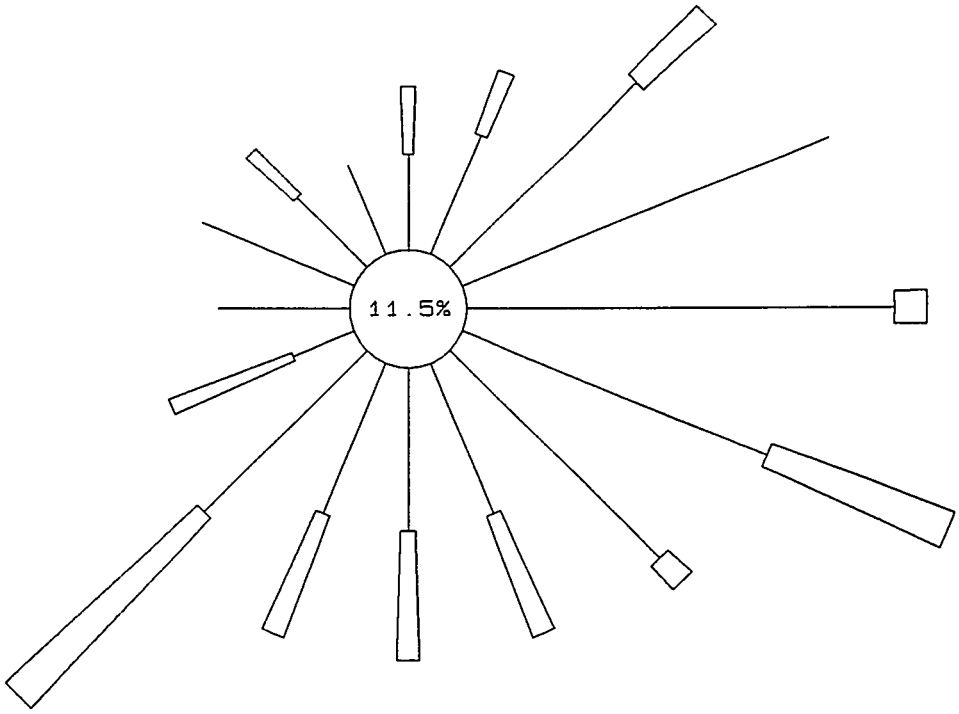


WIND SPEED CLASSES (MPS)

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 15.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
8/ 1/1996 - 8/31/1996
0 - 2400

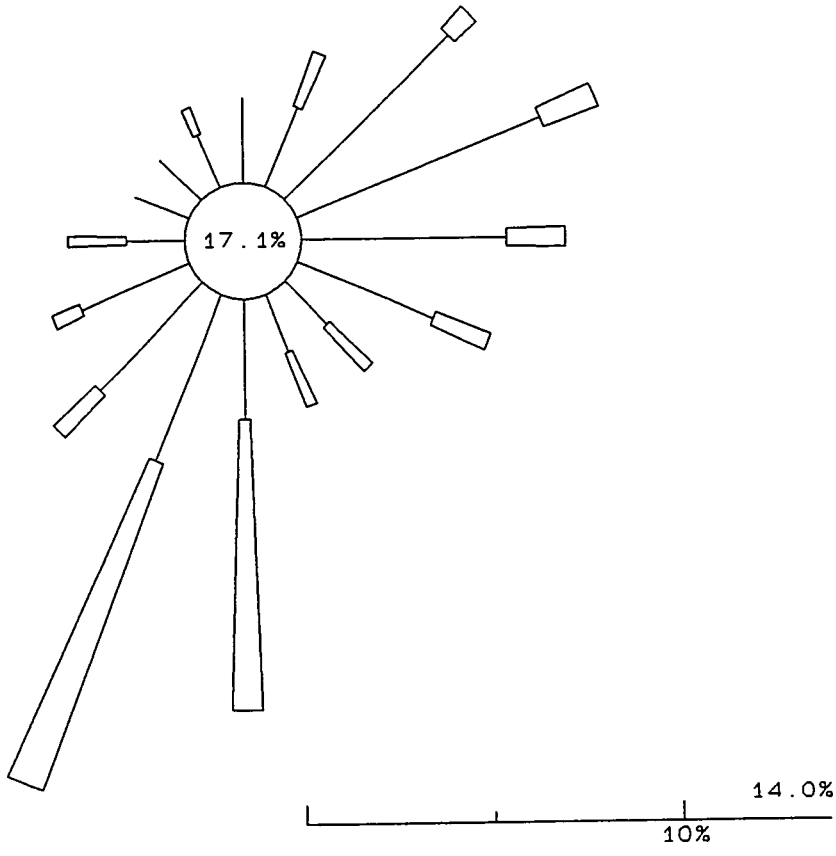


WIND SPEED CLASSES (MPS)

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

98.4% DATA RECOVERED
OF WHICH 21.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
9/ 1/1996 - 9/30/1996
0 - 2400



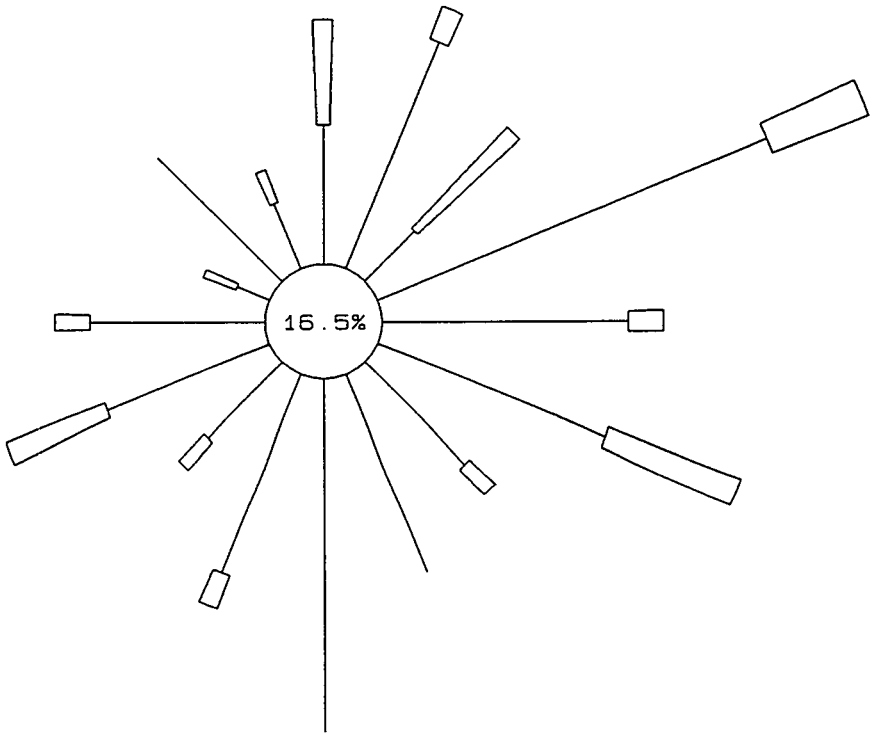
WIND SPEED CLASSES (MPS)

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

90.4% DATA RECOVERED
OF WHICH 19.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
10/ 1/1996 - 10/31/1996
0 - 2400

N



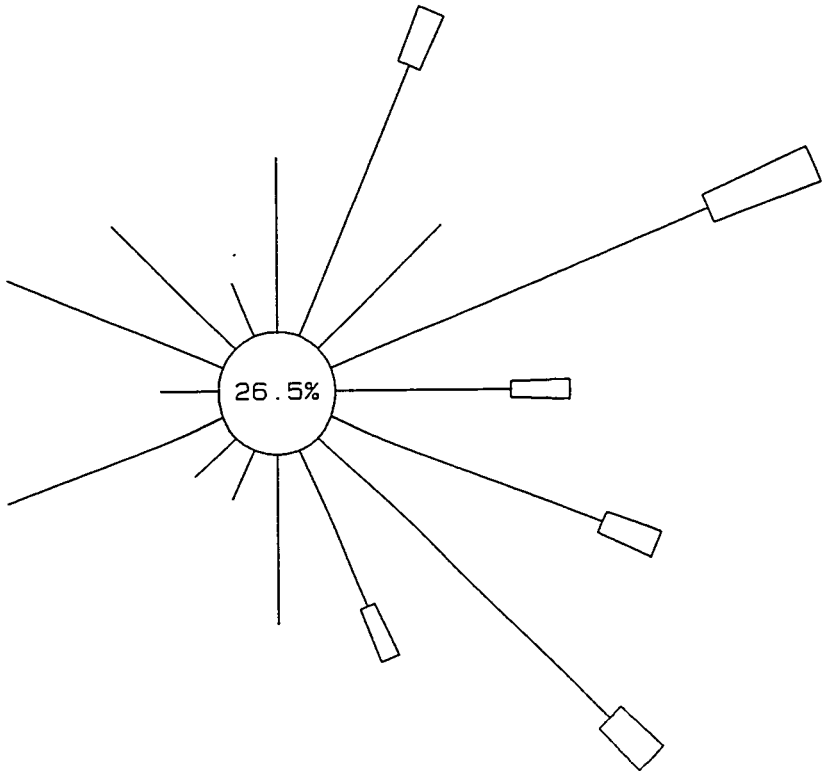
11.3%
10%

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

84.1% DATA RECOVERED
OF WHICH 21.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
11/ 1/1996 - 11/30/1996
0 - 2400

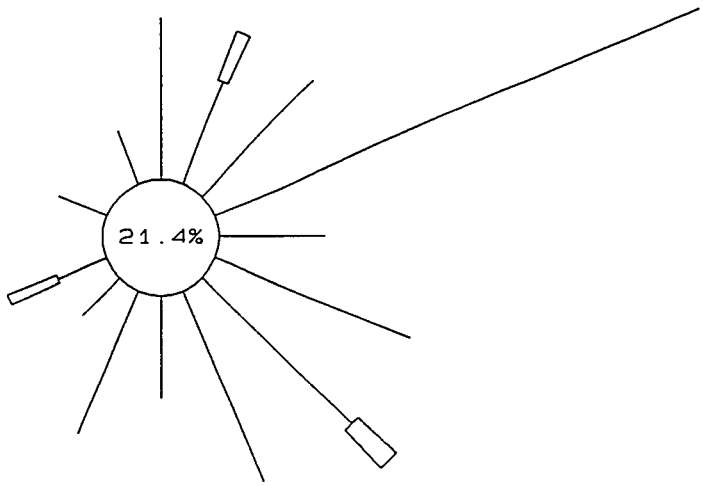


WIND SPEED CLASSES (MPS)

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

75.1% DATA RECOVERED
OF WHICH 15.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS A
8 METER HEIGHT - Total Hours
12/ 1/1996 - 12/31/1996
0 - 2400

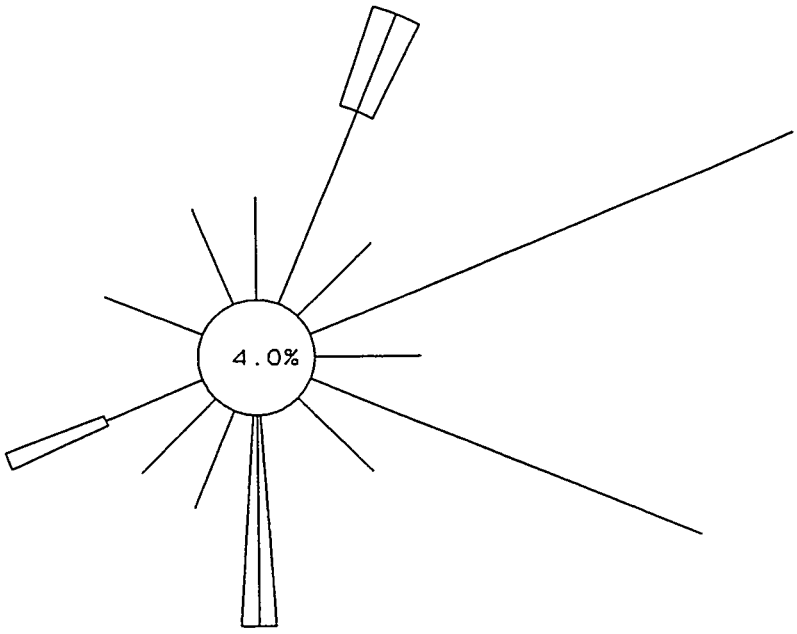


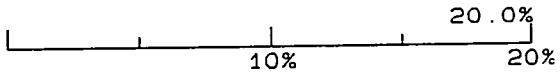
WIND SPEED CLASSES (MPS)

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

58.7% DATA RECOVERED
OF WHICH 12.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
1/ 1/1996 - 1/31/1996
0 - 2400





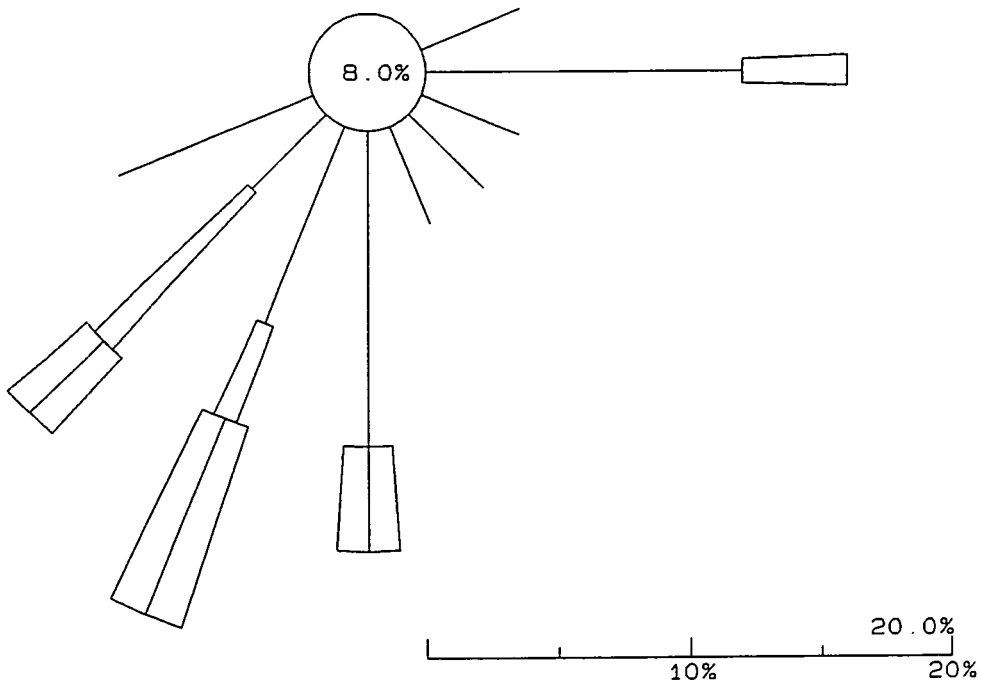
WIND SPEED CLASSES (MPS)

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

74.2% DATA RECOVERED
OF WHICH 4.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
2/ 1/1996 - 2/29/1996
0 - 2400

N

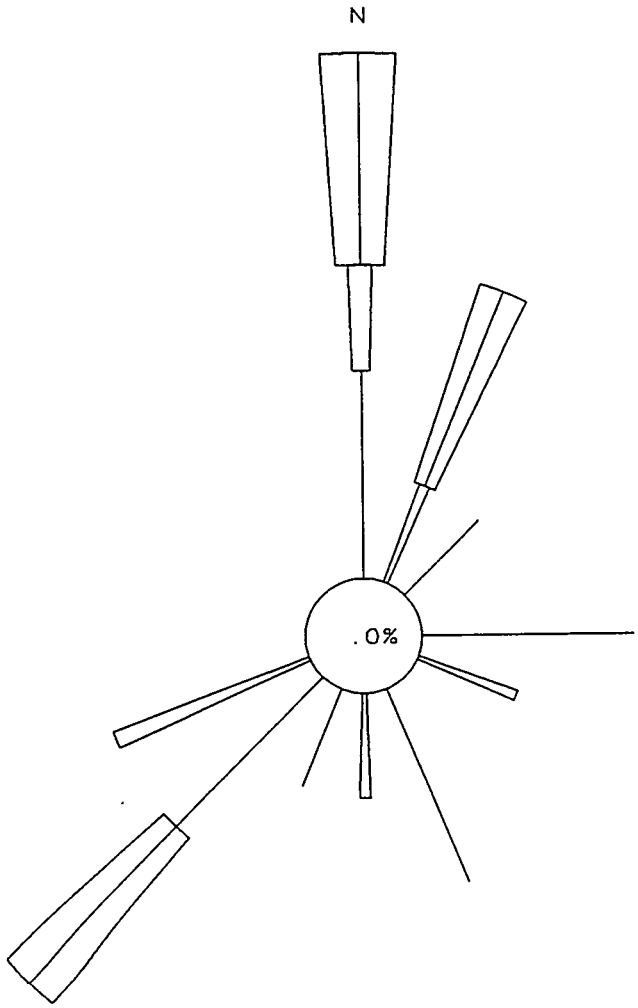


WIND SPEED CLASSES (MPS)

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

83.8% DATA RECOVERED
OF WHICH 4.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
3/ 1/1996 - 3/31/1996
0 - 2400



22.7%
10%
20%

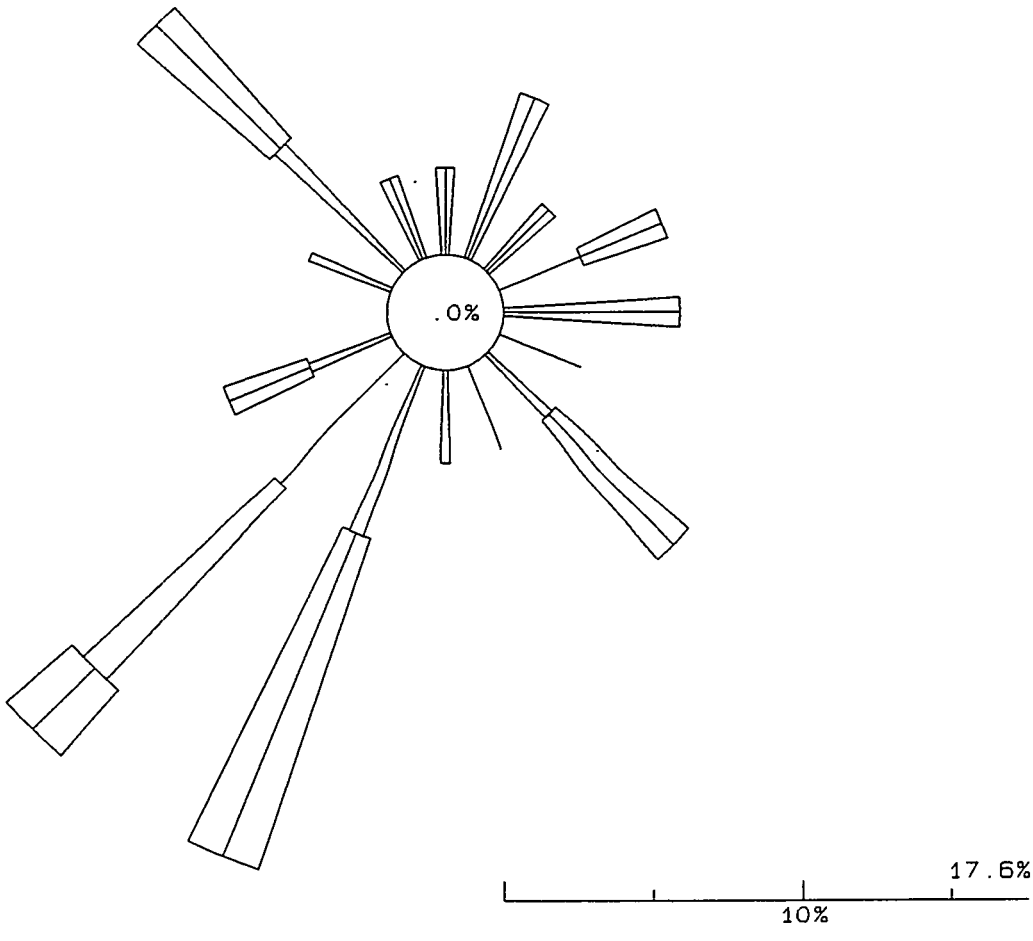
WIND SPEED CLASSES (MPS)

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

82.7% DATA RECOVERED
OF WHICH 3.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
4/ 1/1996 - 4/30/1996
0 - 2400

N



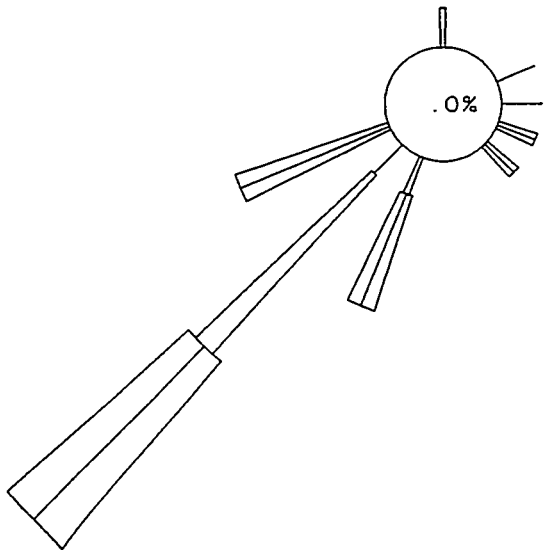
WIND SPEED CLASSES (MPS)

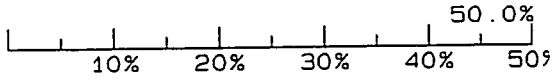
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.8% DATA RECOVERED
OF WHICH 4.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
5/ 1/1996 - 5/31/1996
0 - 2400

N





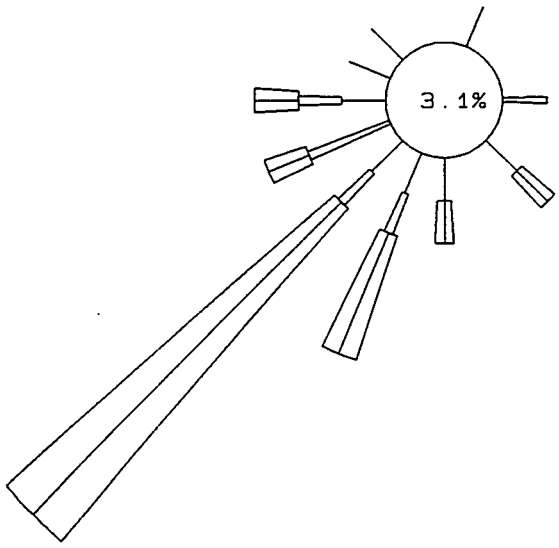
WIND SPEED CLASSES (MPS)

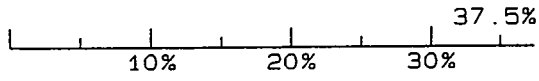
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

100.0% DATA RECOVERED
OF WHICH 3.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
6/ 1/1996 - 6/30/1996
0 - 2400

N



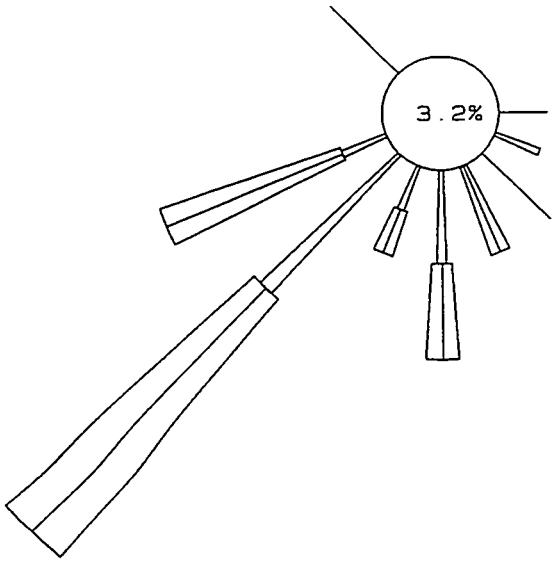


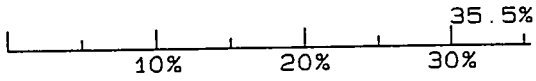
WIND SPEED CLASSES (MPS)

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 4.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
7/ 1/1996 - 7/31/1996
0 - 2400



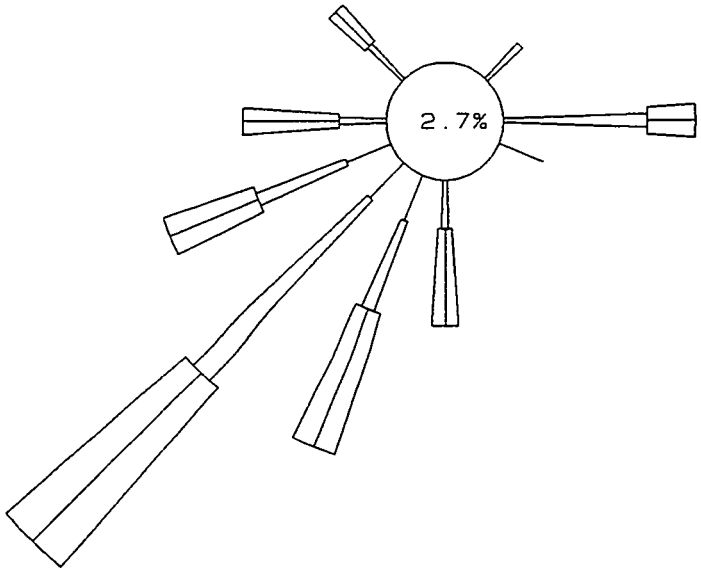


WIND SPEED CLASSES (MPS)

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 4.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
8/ 1/1996 - 8/31/1996
0 - 2400



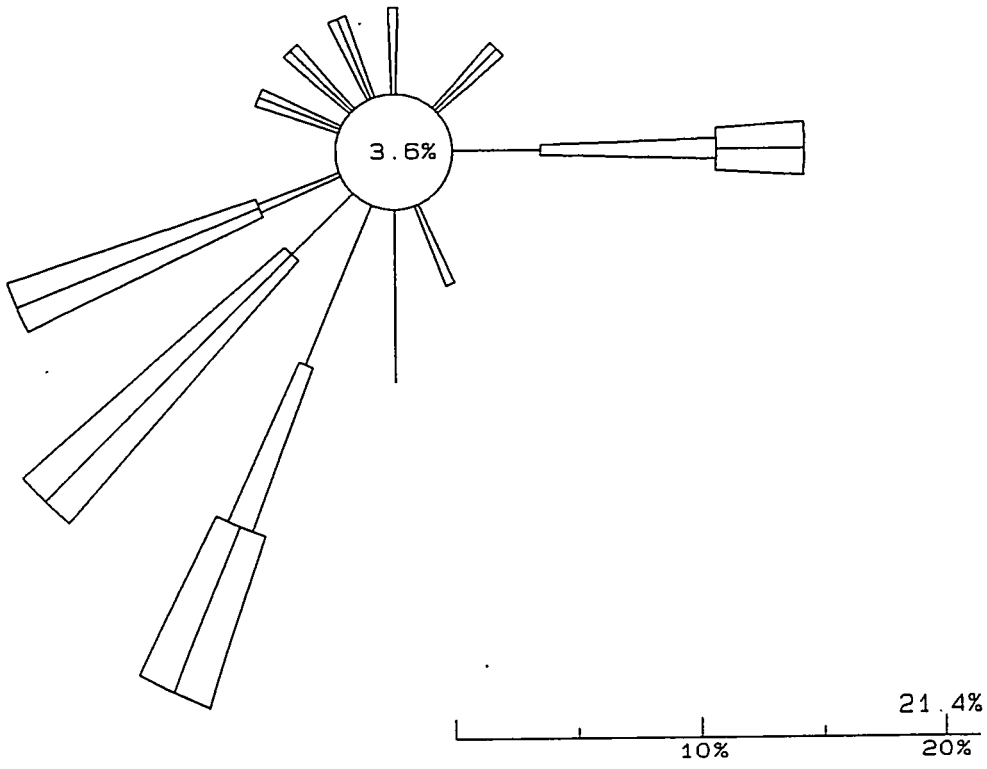
WIND SPEED CLASSES (MPS)

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

98.4% DATA RECOVERED
OF WHICH 5.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
9/ 1/1996 - 9/30/1996
0 - 2400

N



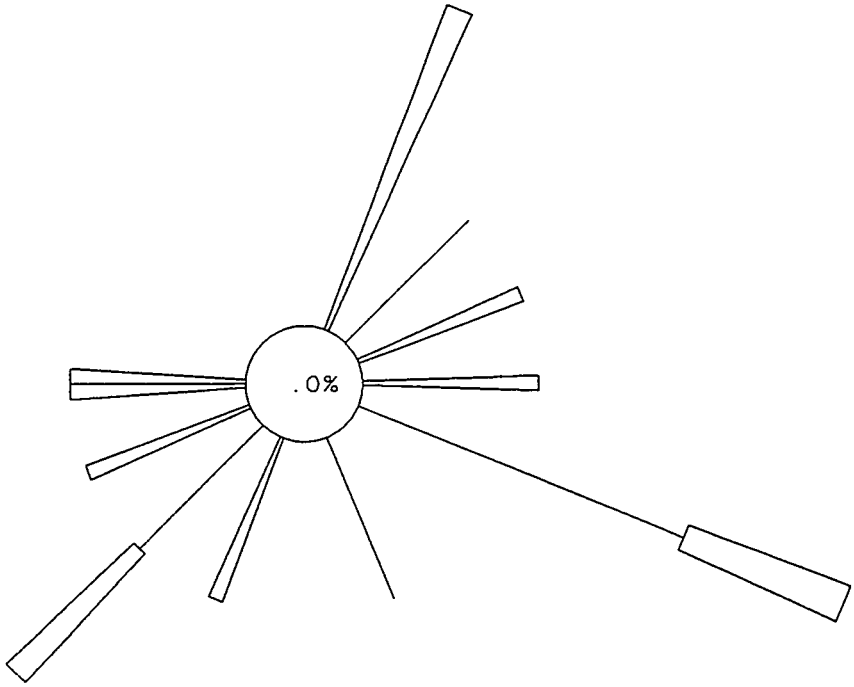
WIND SPEED CLASSES (MPS)

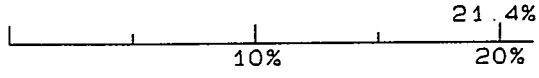
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

90.4% DATA RECOVERED
OF WHICH 4.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
10/ 1/1996 - 10/31/1996
0 - 2400

N





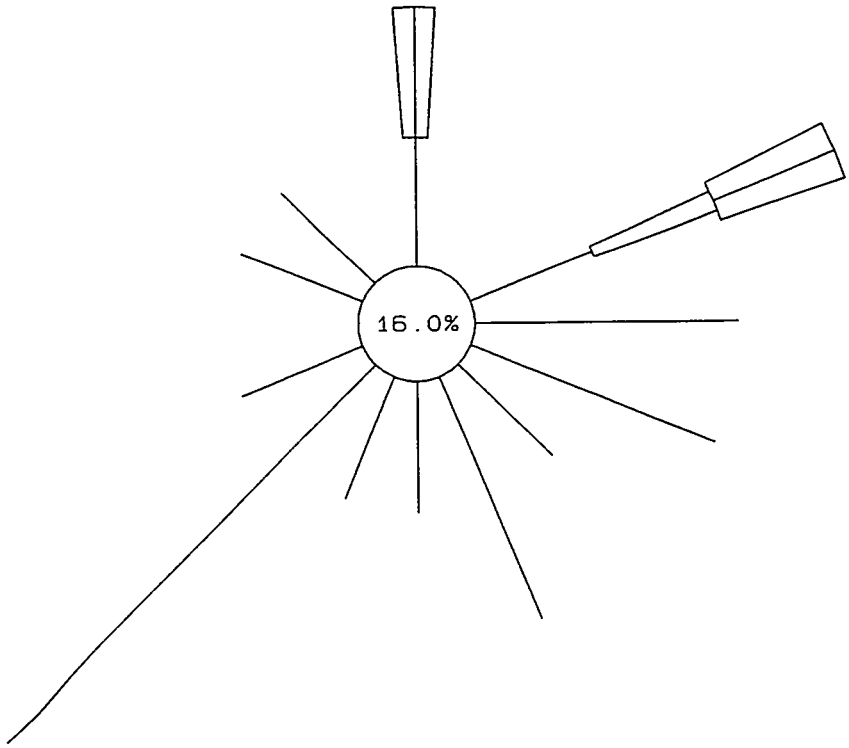
WIND SPEED CLASSES (MPS)

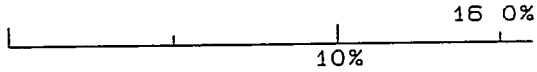
CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

84.1% DATA RECOVERED
OF WHICH 2.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
11/ 1/1996 - 11/30/1996
0 - 2400

N





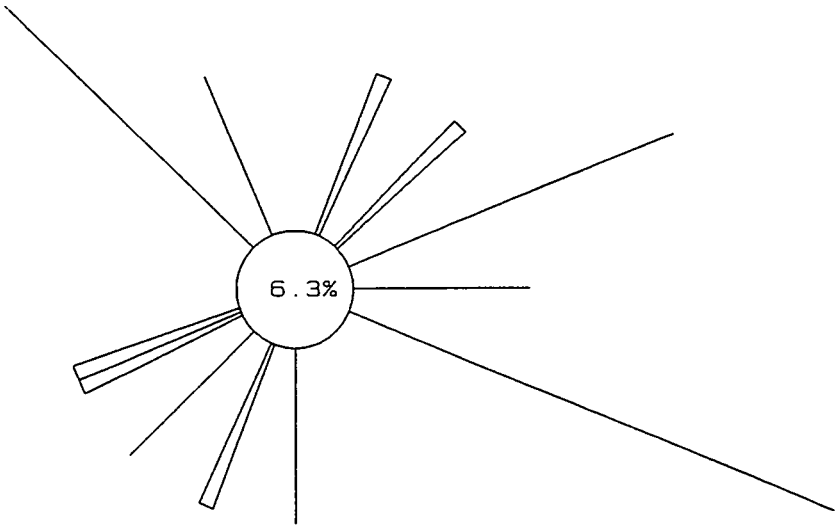
WIND SPEED CLASSES (MPS)

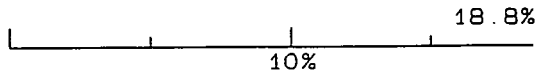
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10 8
6	6	10.8< WS

75.1% DATA RECOVERED
OF WHICH 4.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS B
8 METER HEIGHT - Total Hours
12/ 1/1996 - 12/31/1996
0 - 2400

N



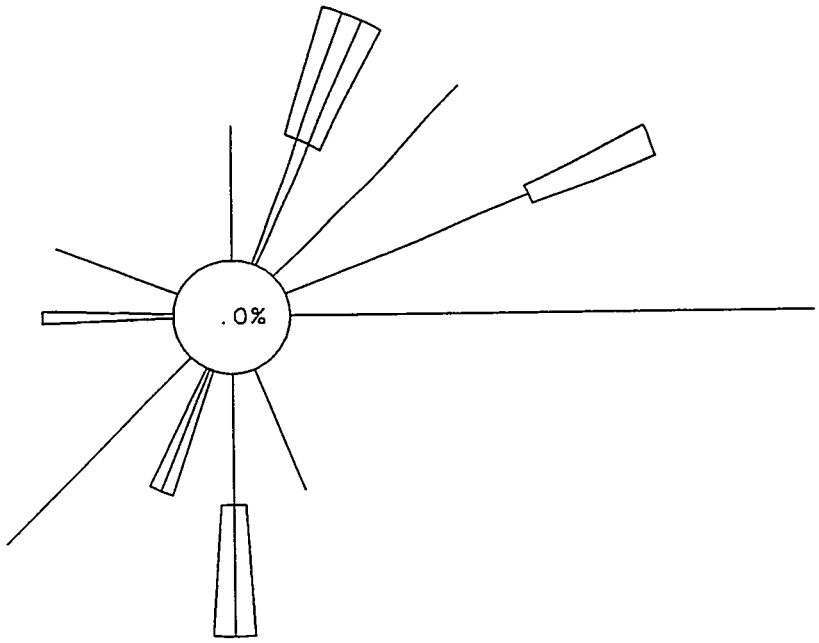


WIND SPEED CLASSES (MPS)

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

58.7% DATA RECOVERED
OF WHICH 3.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
1/ 1/1996 - 1/31/1996
0 - 2400



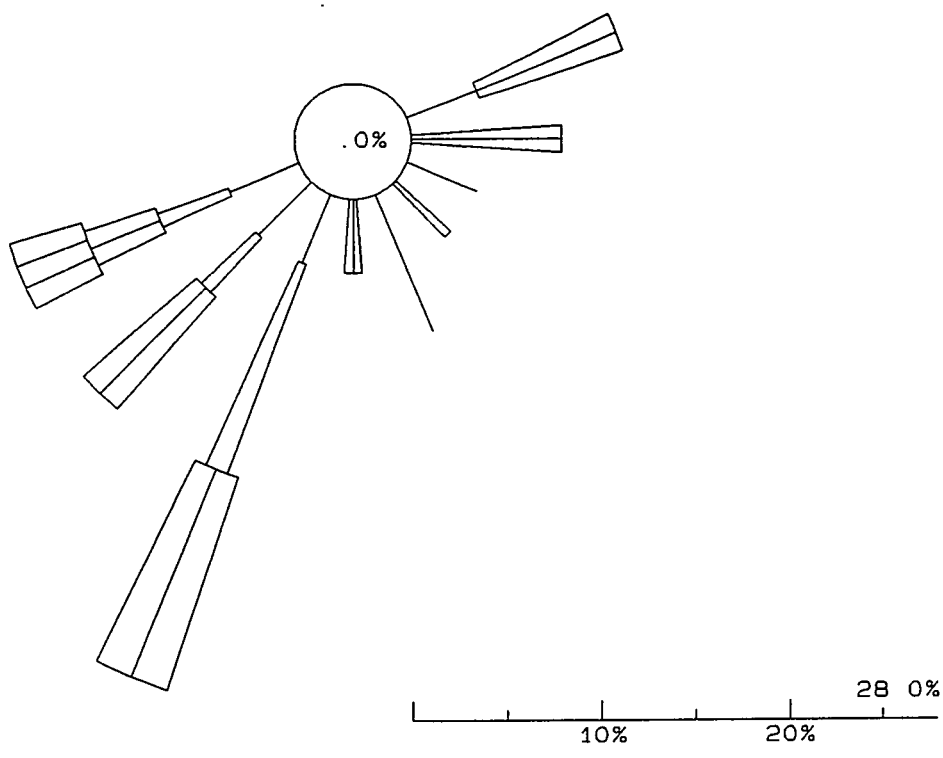
WIND SPEED CLASSES (MPS)

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

74.2% DATA RECOVERED
OF WHICH 3.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
2/ 1/1996 - 2/29/1996
0 - 2400

N

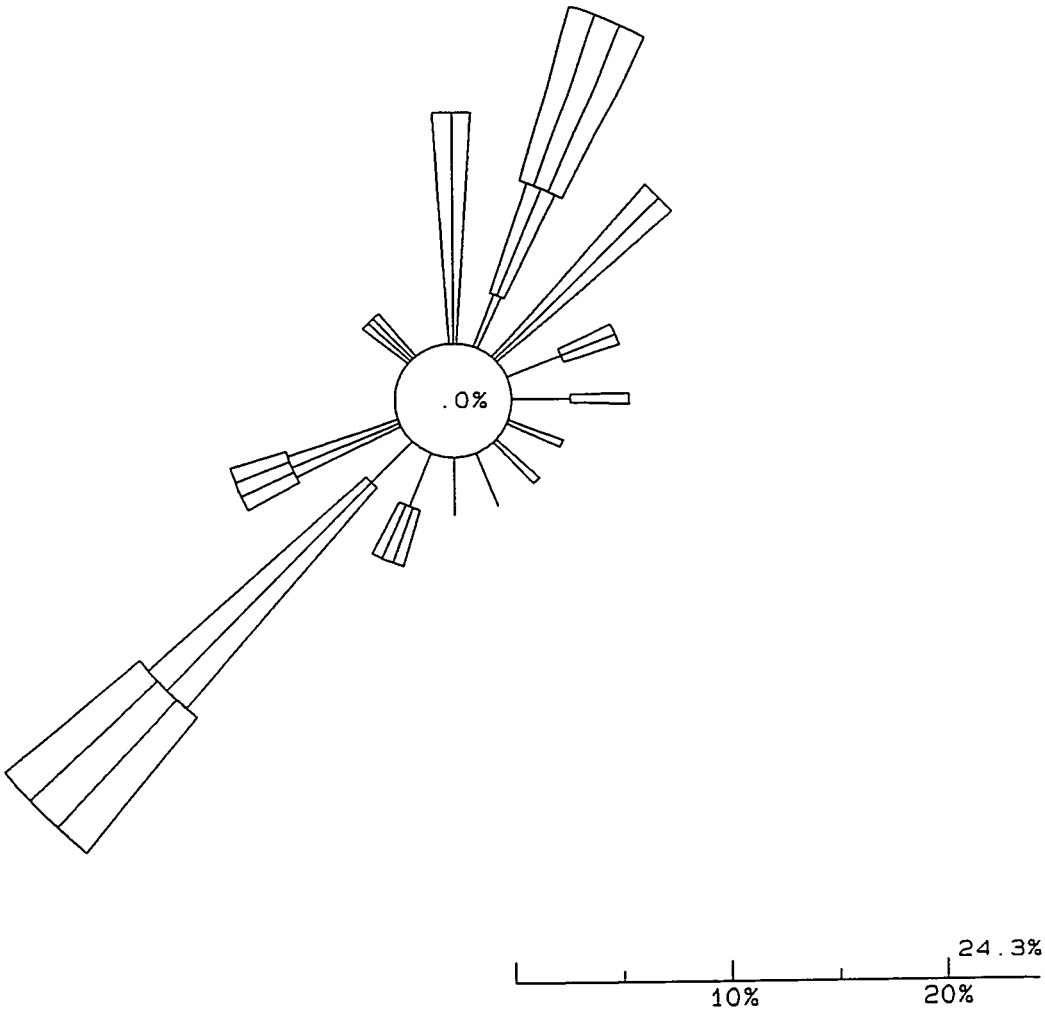


WIND SPEED CLASSES (MPS)

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

83.8% DATA RECOVERED
OF WHICH 4.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
3/ 1/1996 - 3/31/1996
0 - 2400

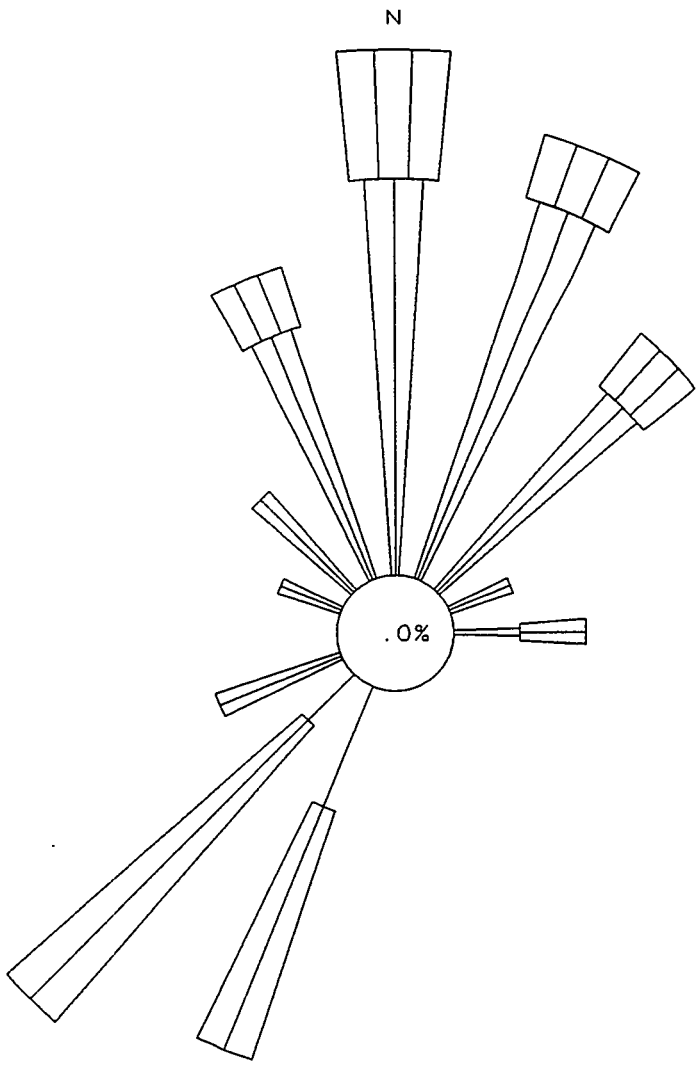


WIND SPEED CLASSES (MPS)

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

82.7% DATA RECOVERED
OF WHICH 6.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
4/ 1/1996 - 4/30/1996
0 - 2400



17.4%
10%

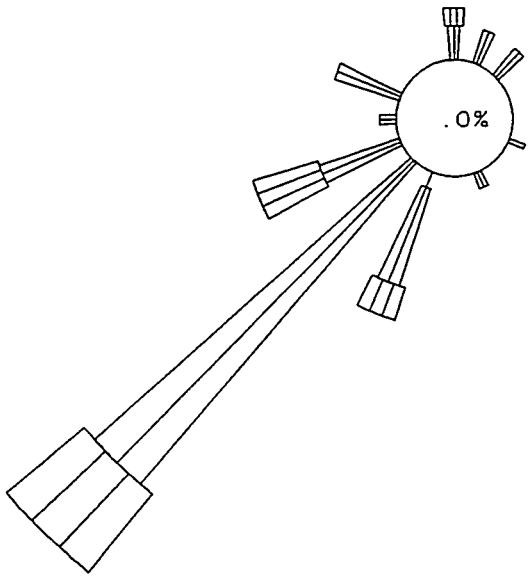
WIND SPEED CLASSES (MPS)

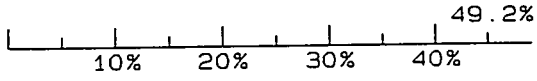
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.8% DATA RECOVERED
OF WHICH 6.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
5/ 1/1996 - 5/31/1996
0 - 2400

N



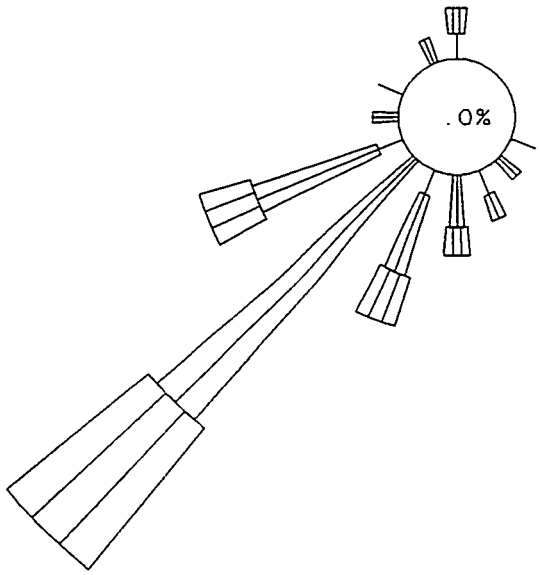


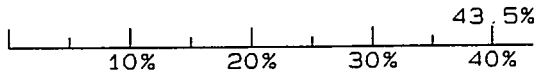
WIND SPEED CLASSES (MPS)

CALM	0	WS <= .5
1	I	.5< WS <= 1.8
2	II	1.8< WS <= 3.3
3	III	3.3< WS <= 5.4
4	IIII	5.4< WS <= 8.5
5	IIIII	8.5< WS <=10.8
6	IIIIII	10.8< WS

100.0% DATA RECOVERED
OF WHICH 8.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
6/ 1/1996 - 6/30/1996
0 - 2400





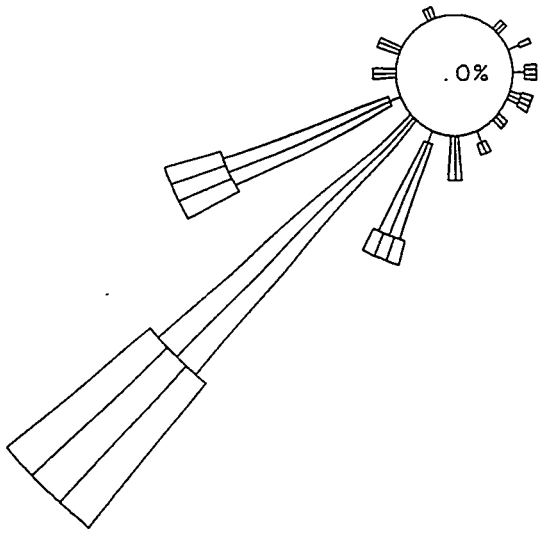
WIND SPEED CLASSES (MPS)

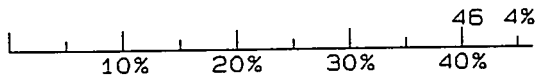
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5 4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

100.0% DATA RECOVERED
OF WHICH 6.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
7/ 1/1996 - 7/31/1996
0 - 2400

N



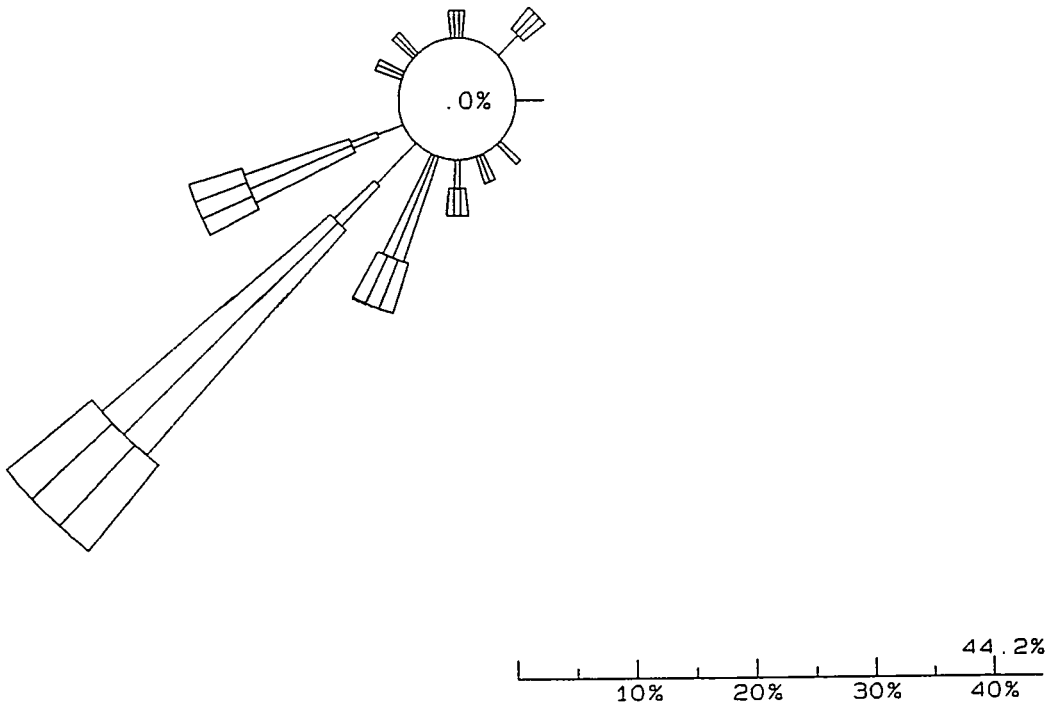


WIND SPEED CLASSES (MPS)

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 13.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
8/ 1/1996 - 8/31/1996
0 - 2400



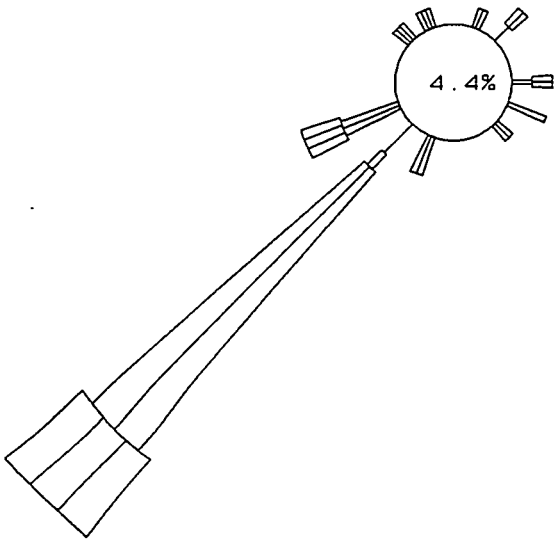
WIND SPEED CLASSES (MPS)

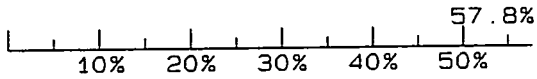
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10 8
6	□□□□□	10 8< WS

98.4% DATA RECOVERED
OF WHICH 5.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
9/ 1/1996 - 9/30/1996
0 - 2400

N



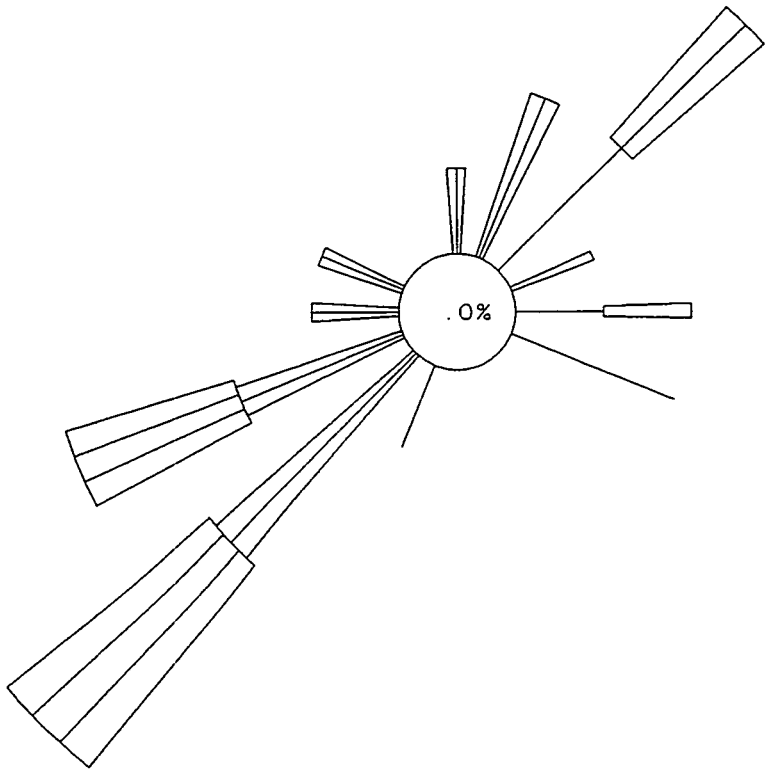


WIND SPEED CLASSES (MPS)

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

90.4% DATA RECOVERED
OF WHICH 6.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
10/ 1/1996 - 10/31/1996
0 - 2400

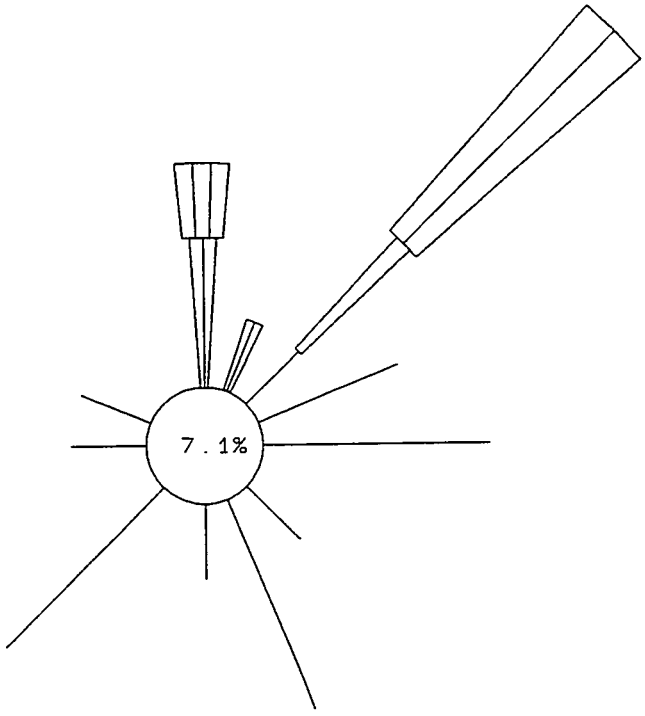


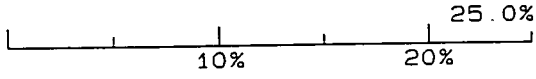
WIND SPEED CLASSES (MPS)

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

84.1% DATA RECOVERED
OF WHICH 4.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
11/ 1/1996 - 11/30/1996
0 - 2400





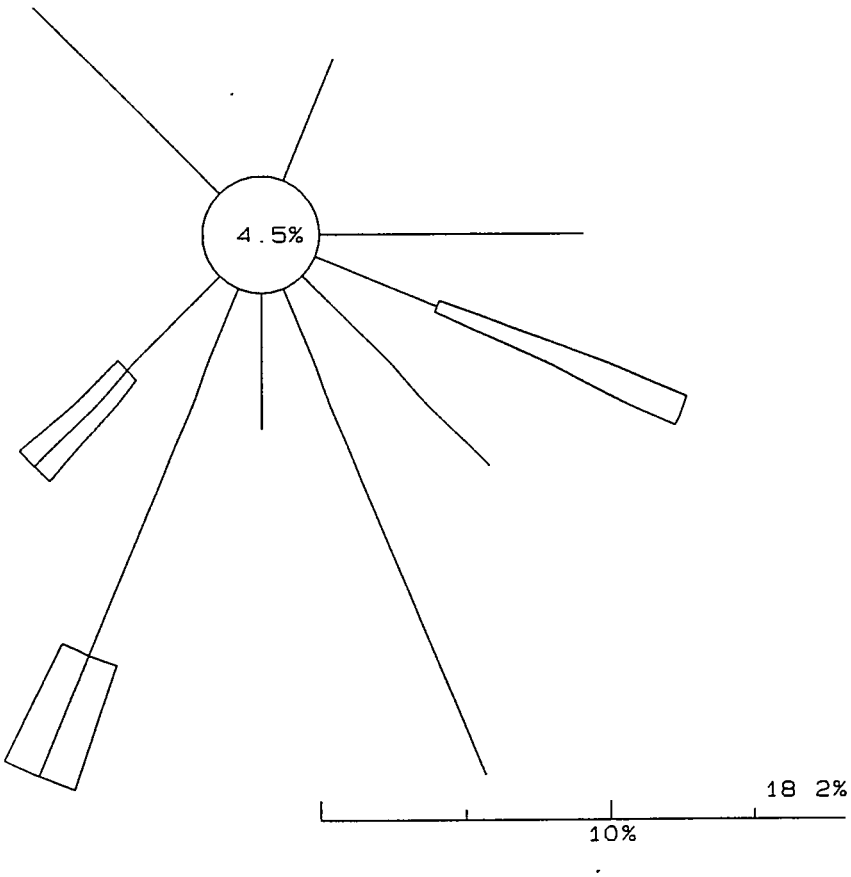
WIND SPEED CLASSES (MPS)

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

75.1% DATA RECOVERED
OF WHICH 5.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS C
8 METER HEIGHT - Total Hours
12/ 1/1996 - 12/31/1996
0 - 2400

N

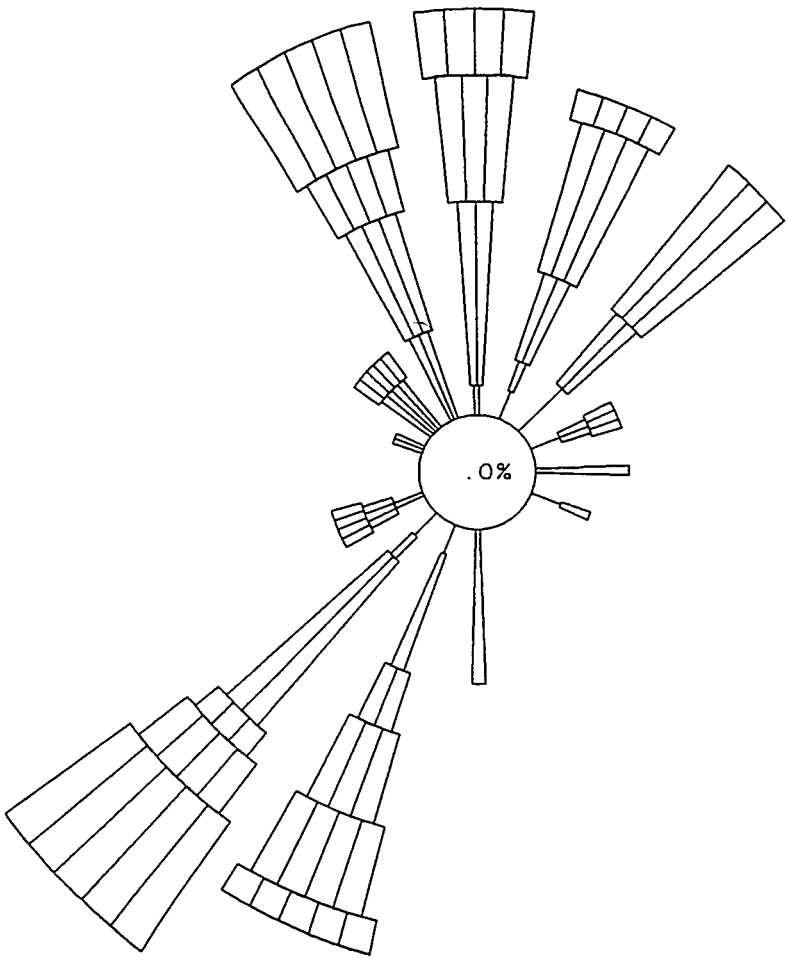


WIND SPEED CLASSES (MPS)

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

58.7% DATA RECOVERED
OF WHICH 5.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
1/ 1/1996 - 1/31/1996
0 - 2400

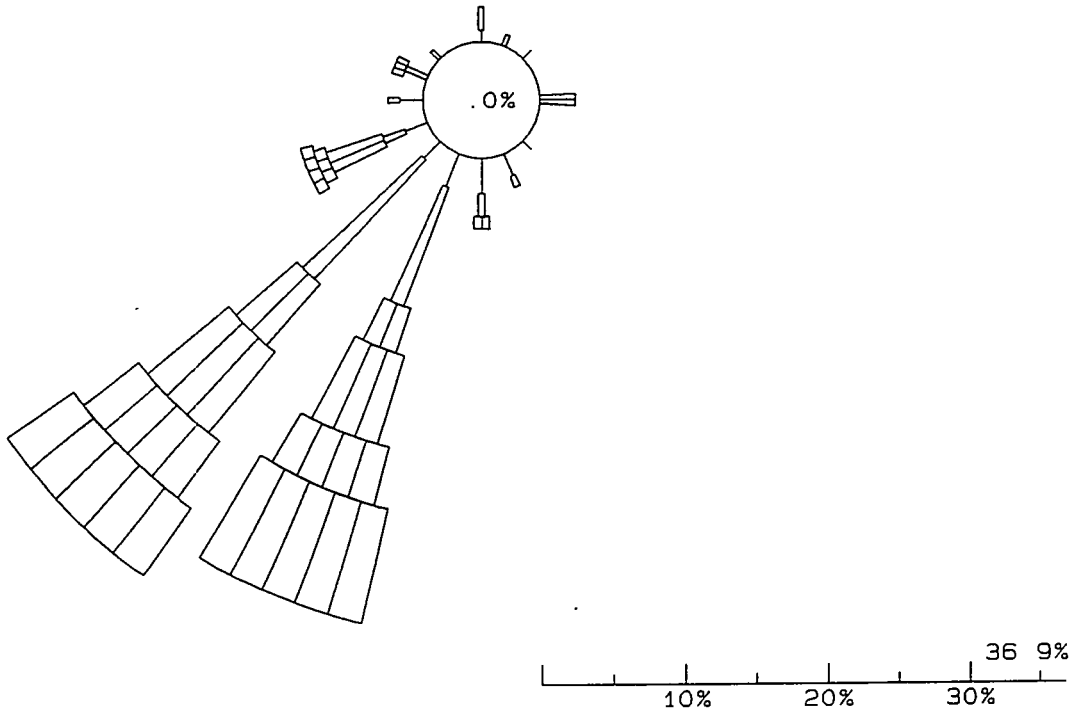


WIND SPEED CLASSES (MPS)

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

74.2% DATA RECOVERED
OF WHICH 17.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
2/ 1/1996 - 2/29/1996
0 - 2400



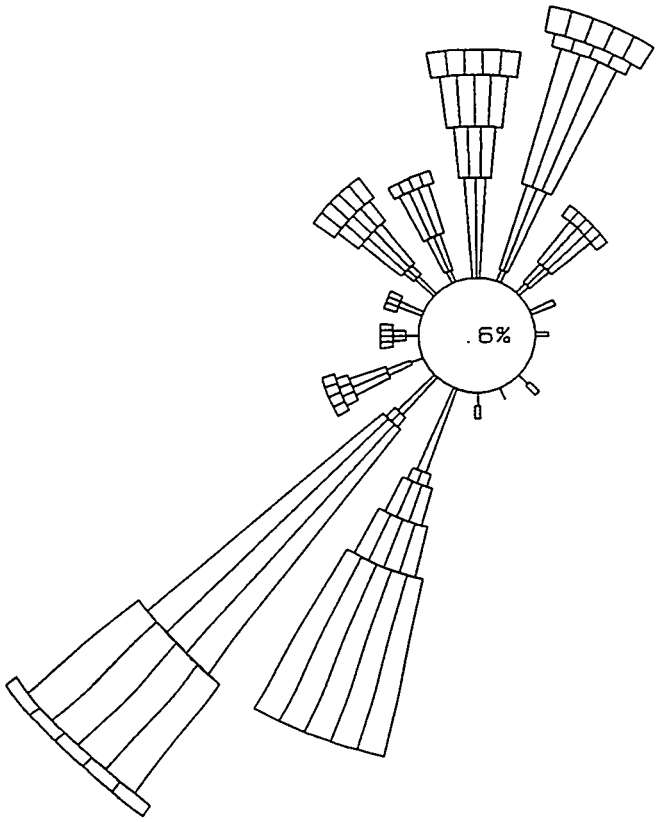
WIND SPEED CLASSES (MPS)

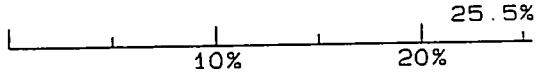
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

83.8% DATA RECOVERED
OF WHICH 20.9% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
3/ 1/1996 - 3/31/1996
0 - 2400

N



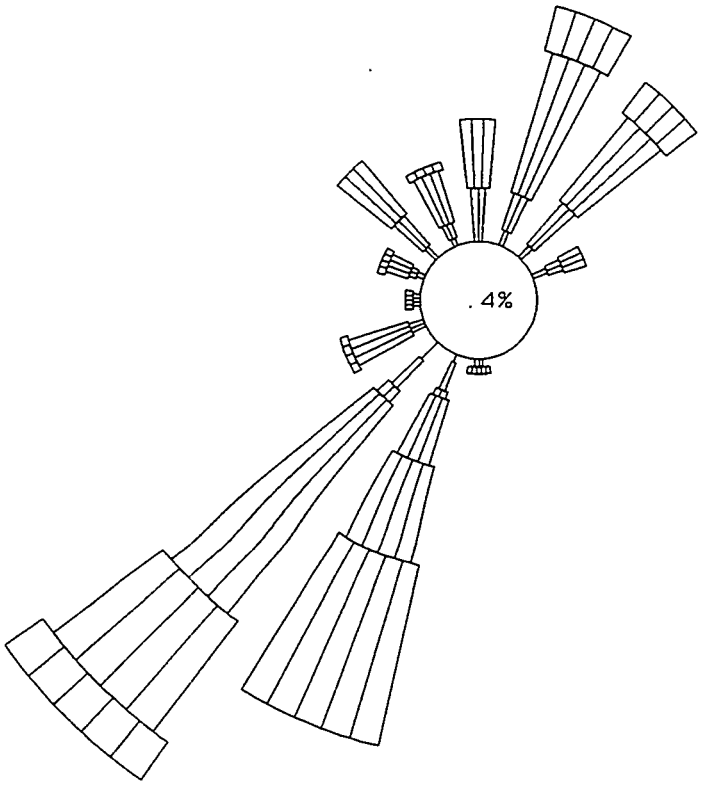


WIND SPEED CLASSES (MPS)

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

82.7% DATA RECOVERED
OF WHICH 26.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
4/ 1/1996 - 4/30/1996
0 - 2400



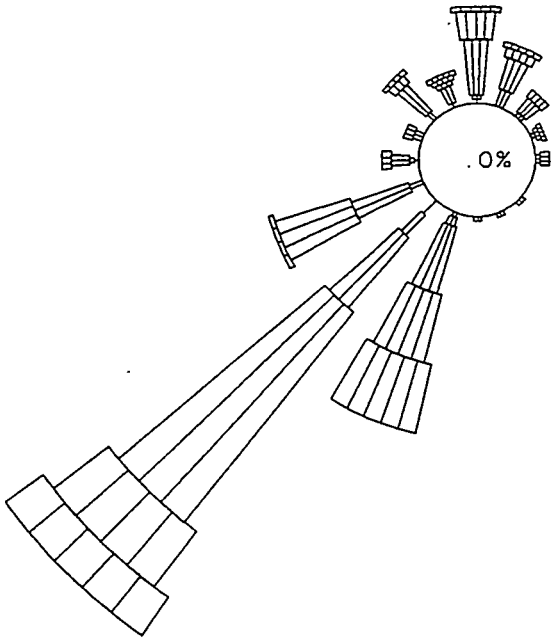
WIND SPEED CLASSES (MPS)

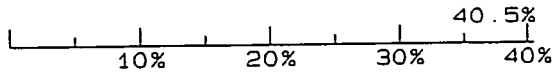
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

96.8% DATA RECOVERED
OF WHICH 36.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
5/ 1/1996 - 5/31/1996
0 - 2400

N





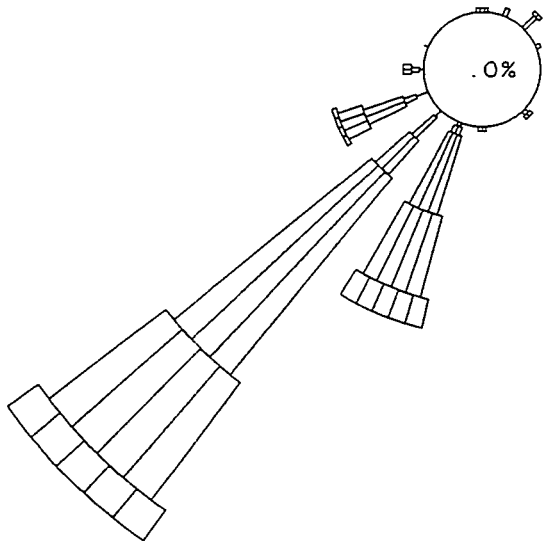
WIND SPEED CLASSES (MPS)

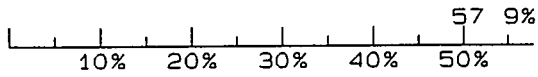
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	0	3.3< WS <= 5.4
4	0	5.4< WS <= 8.5
5	0	8.5< WS <=10.8
6	0	10.8< WS

100.0% DATA RECOVERED
OF WHICH 37.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
6/ 1/1996 - 6/30/1996
0 - 2400

N





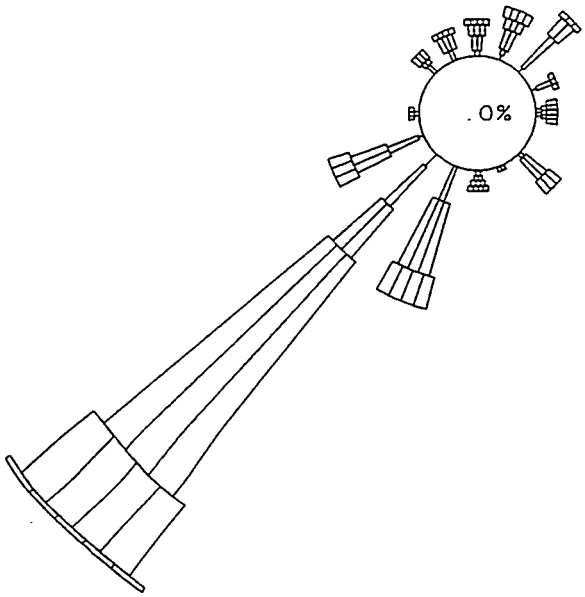
WIND SPEED CLASSES (MPS)

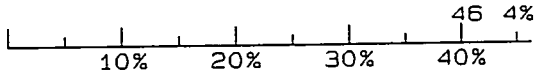
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10 8< WS

100.0% DATA RECOVERED
OF WHICH 30.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
7/ 1/1996 - 7/31/1996
0 - 2400

N





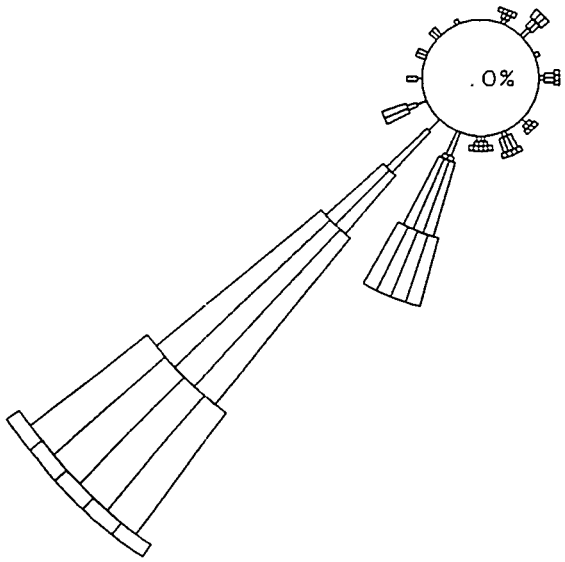
WIND SPEED CLASSES (MPS)

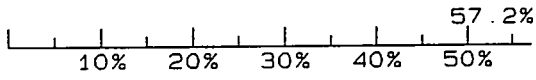
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	0	1.8< WS <= 3.3
3	0	3.3< WS <= 5.4
4	0	5.4< WS <= 8.5
5	0	8.5< WS <=10.8
6	0	10.8< WS

100.0% DATA RECOVERED
OF WHICH 28.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
8/ 1/1996 - 8/31/1996
0 - 2400

N





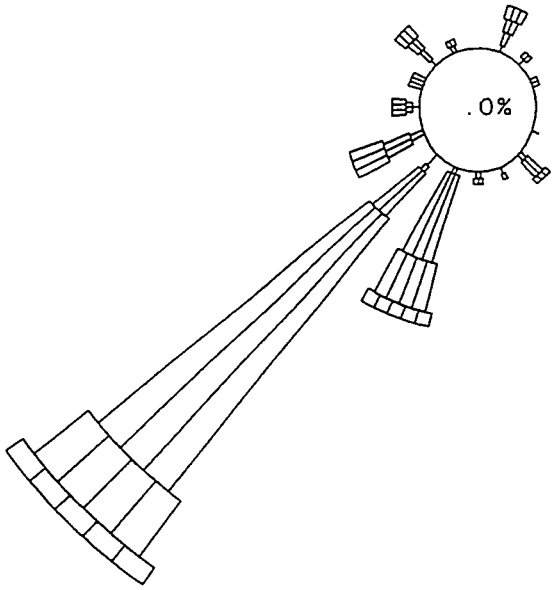
WIND SPEED CLASSES (MPS)

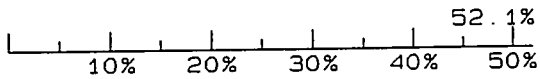
CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

98.4% DATA RECOVERED
OF WHICH 24.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
9/ 1/1996 - 9/30/1996
0 - 2400

N



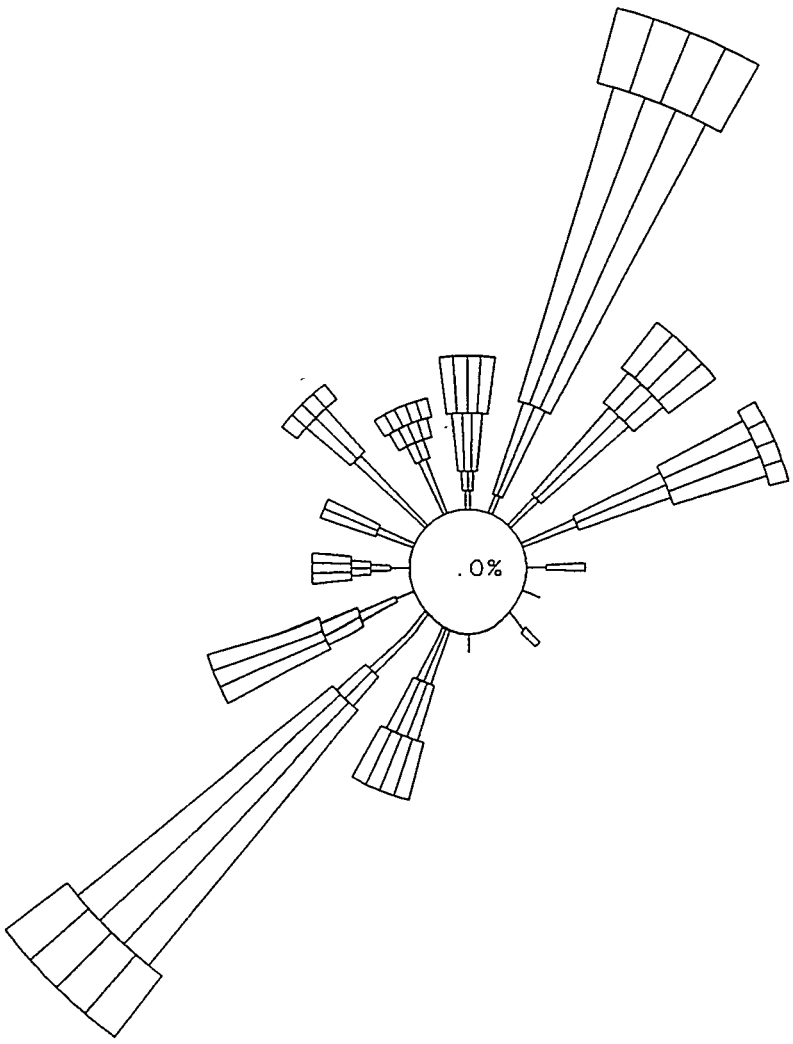


WIND SPEED CLASSES (MPS)

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

90.4% DATA RECOVERED
OF WHICH 22.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
10/ 1/1996 - 10/31/1996
0 - 2400

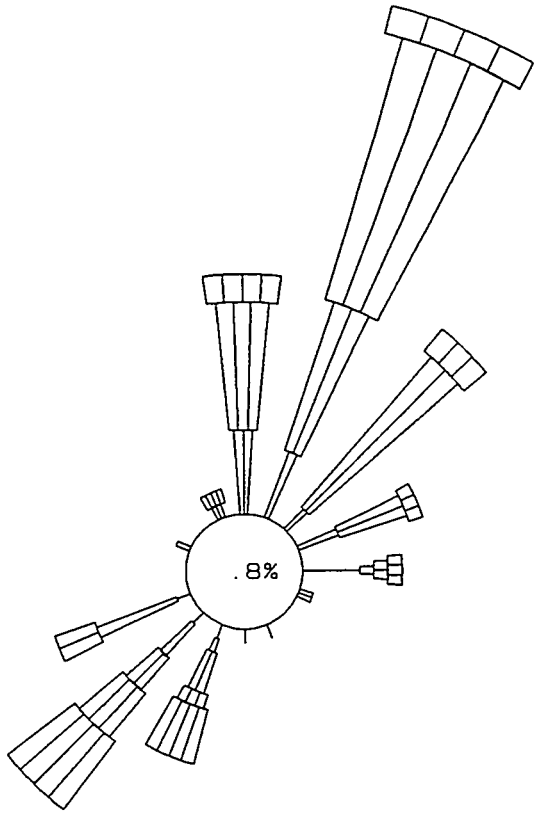


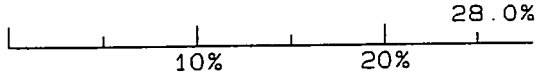
WIND SPEED CLASSES (MPS)

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

84.1% DATA RECOVERED
OF WHICH 22.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
11/ 1/1996 - 11/30/1996
0 - 2400





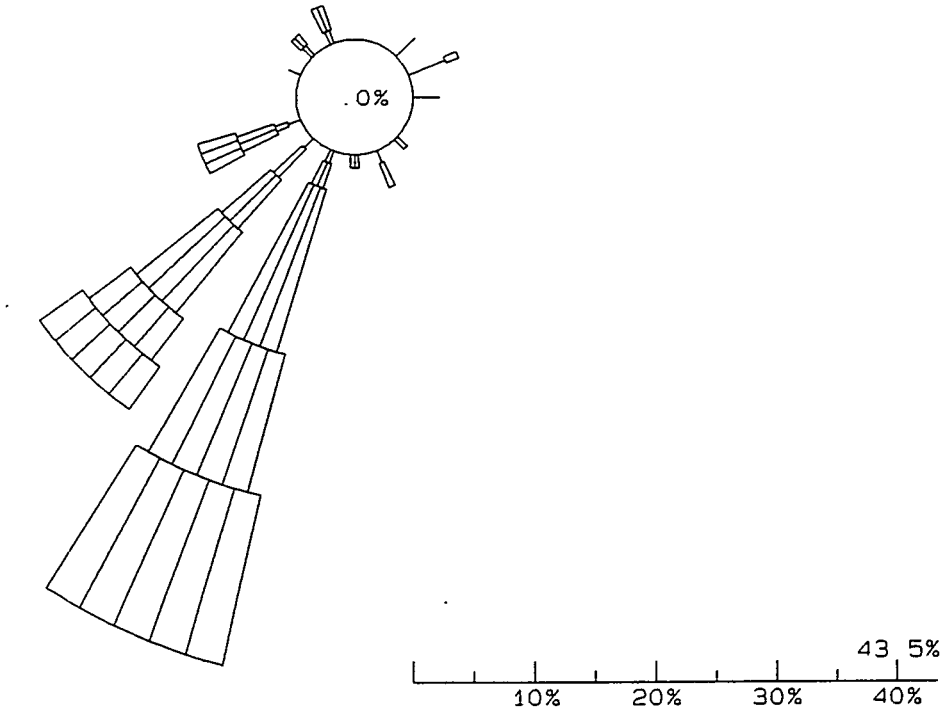
WIND SPEED CLASSES (MPS)

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

75.1% DATA RECOVERED
OF WHICH 24.4% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS D
8 METER HEIGHT - Total Hours
12/ 1/1996 - 12/31/1996
0 - 2400

N

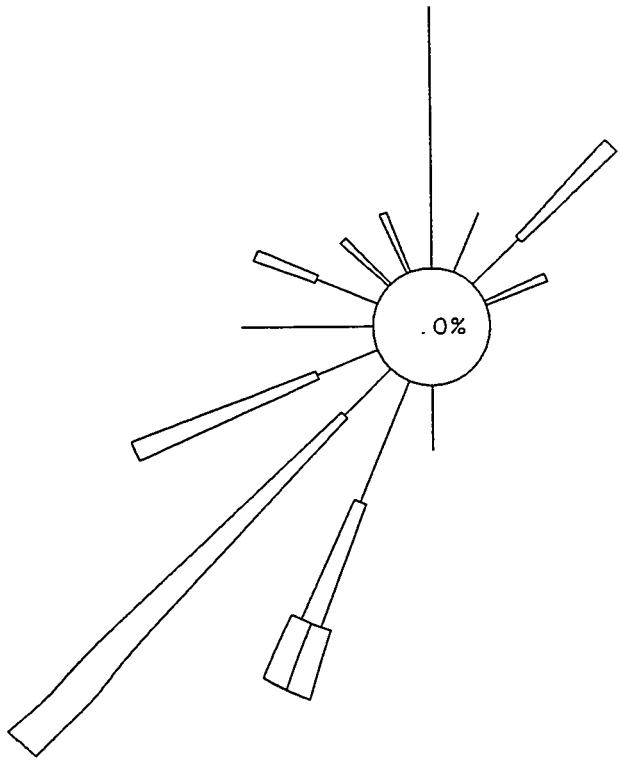


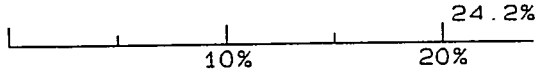
WIND SPEED CLASSES (MPS)

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

58.7% DATA RECOVERED
OF WHICH 21.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
1/ 1/1996 - 1/31/1996
0 - 2400



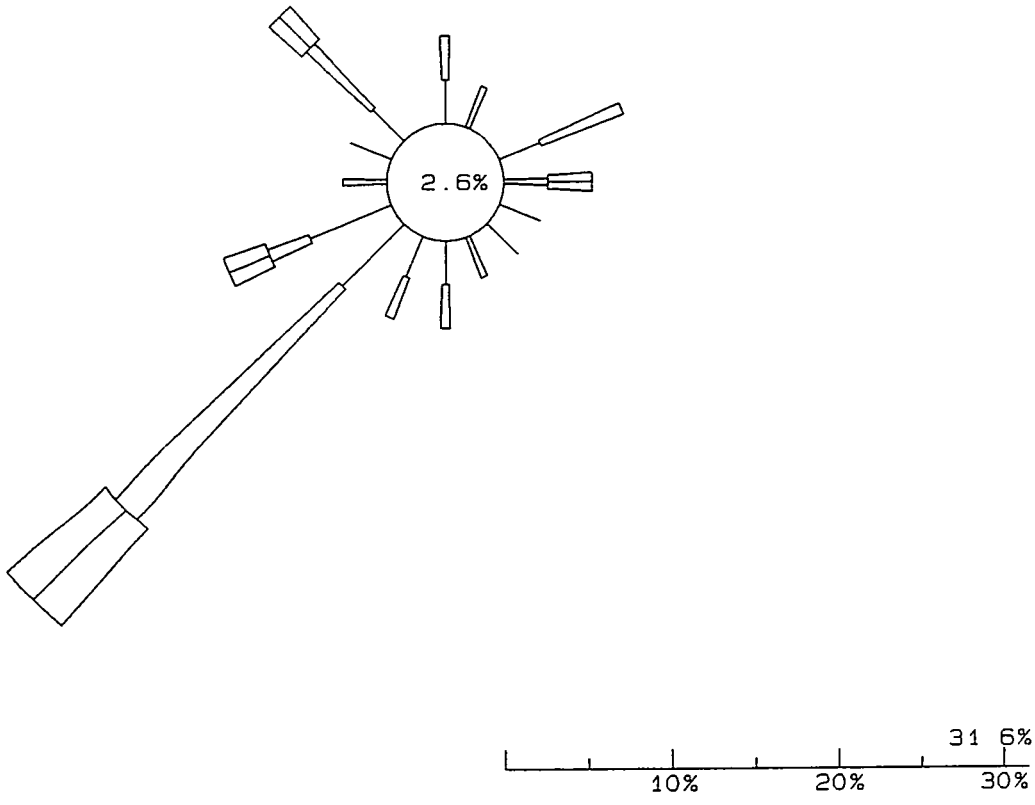


WIND SPEED CLASSES (MPS)

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

74.2% DATA RECOVERED
OF WHICH 6.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
2/ 1/1996 - 2/29/1996
0 - 2400



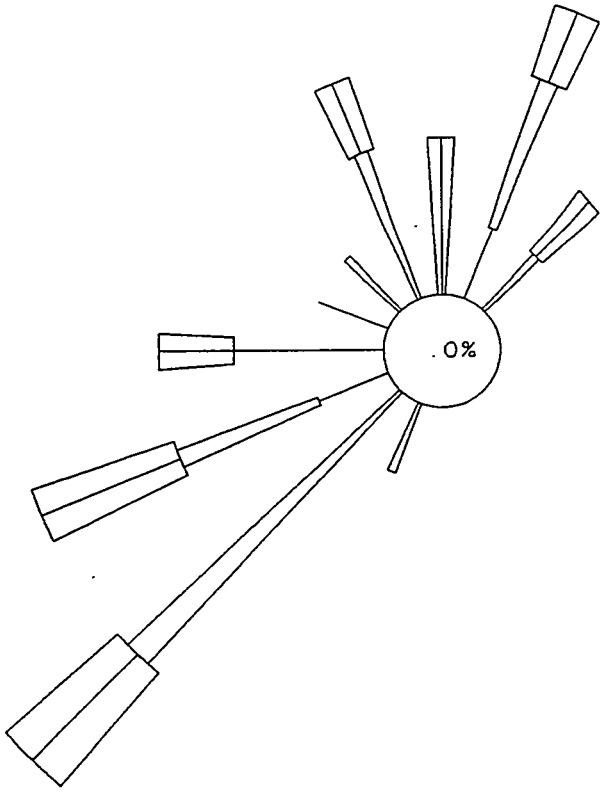
WIND SPEED CLASSES (MPS)

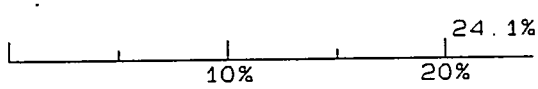
CALM	o	WS <= .5
1	ı	.5< WS <= 1.8
2	▫	1.8< WS <= 3.3
3	▫▫	3.3< WS <= 5.4
4	▫▫▫	5.4< WS <= 8.5
5	▫▫▫▫	8.5< WS <=10.8
6	▫▫▫▫▫	10.8< WS

83.8% DATA RECOVERED
OF WHICH 6.5% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
3/ 1/1996 - 3/31/1996
0 - 2400

N





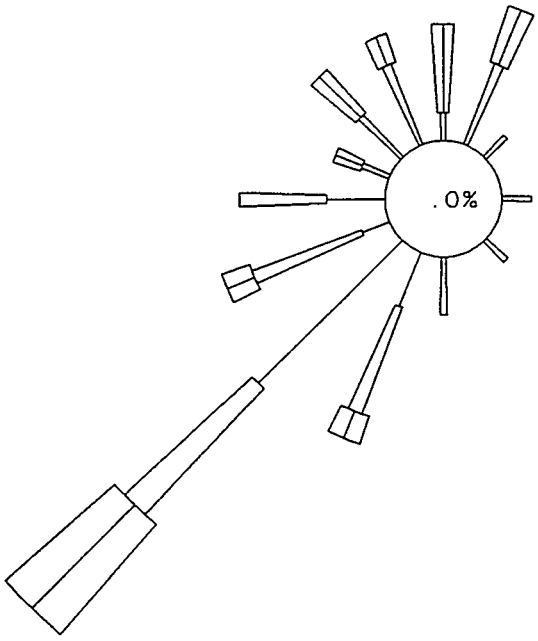
WIND SPEED CLASSES (MPS)

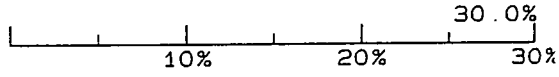
CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

82.7% DATA RECOVERED
OF WHICH 4.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
4/ 1/1996 - 4/30/1996
0 - 2400

N



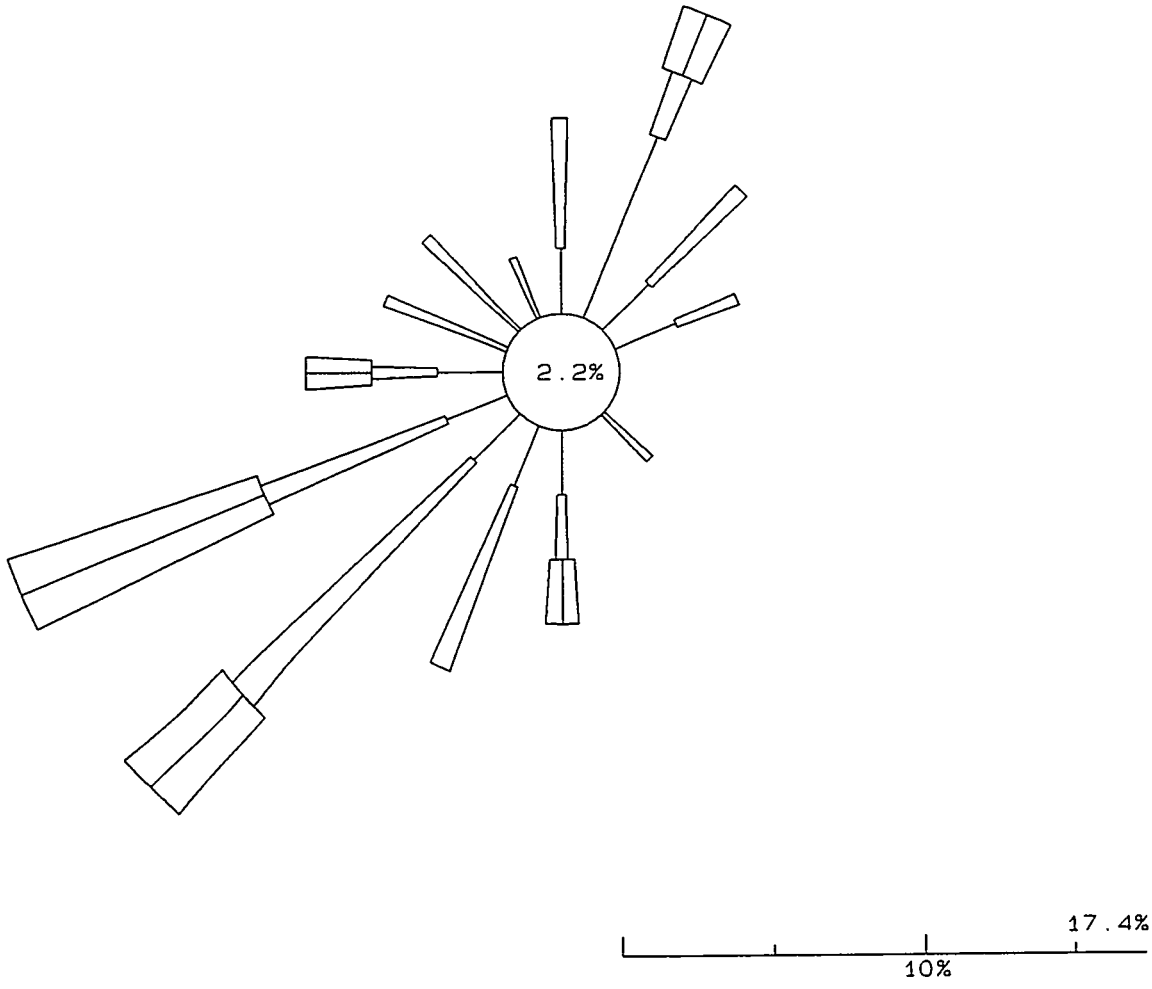


WIND SPEED CLASSES (MPS)

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

96.8% DATA RECOVERED
OF WHICH 8.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
5/ 1/1996 - 5/31/1996
0 - 2400

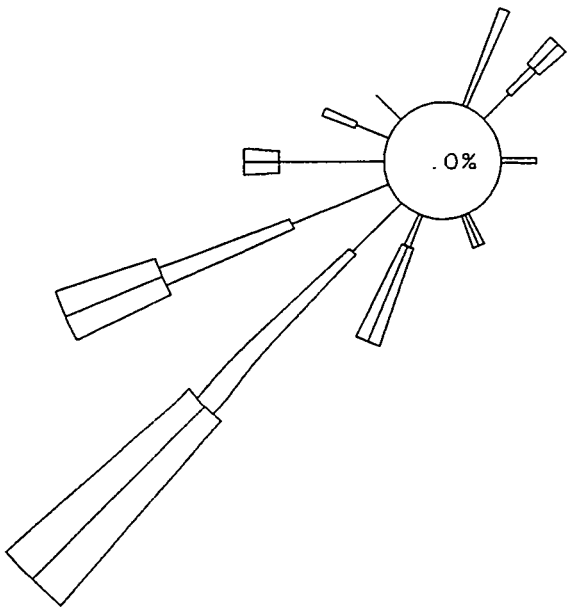


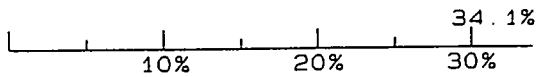
WIND SPEED CLASSES (MPS)

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 6.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
6/ 1/1996 - 6/30/1996
0 - 2400





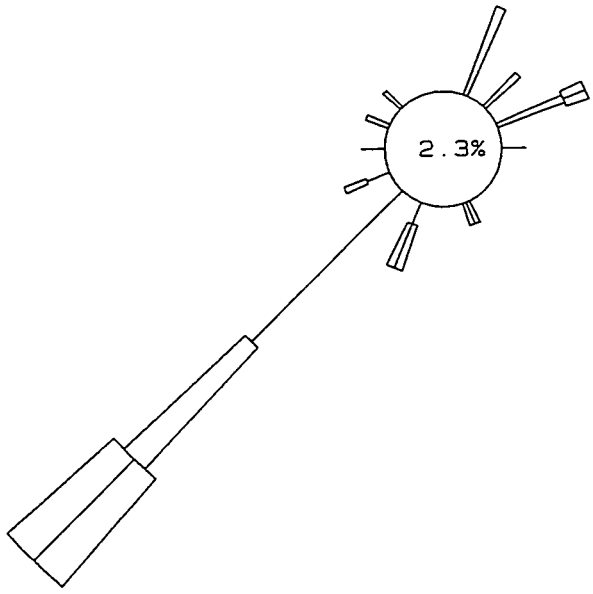
WIND SPEED CLASSES (MPS)

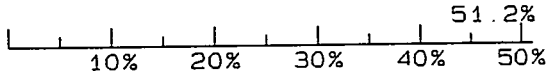
CALM	0	WS <= .5
1	1	.5< WS <= 1.8
2	2	1.8< WS <= 3.3
3	3	3.3< WS <= 5.4
4	4	5.4< WS <= 8.5
5	5	8.5< WS <=10.8
6	6	10.8< WS

100.0% DATA RECOVERED
OF WHICH 6.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
7/ 1/1996 - 7/31/1996
0 - 2400

N





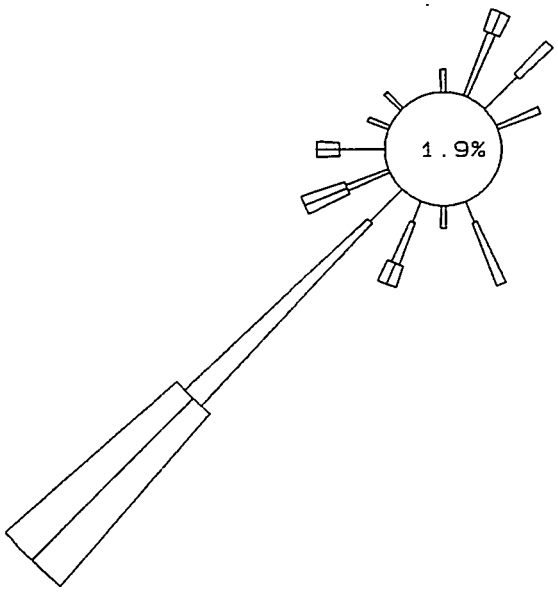
WIND SPEED CLASSES (MPS)

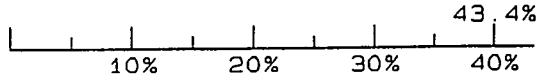
CALM	0	WS <= .5
1		.5< WS <= 1.8
2		1.8< WS <= 3.3
3		3.3< WS <= 5.4
4		5.4< WS <= 8.5
5		8.5< WS <=10.8
6		10.8< WS

100.0% DATA RECOVERED
OF WHICH 5.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
8/ 1/1996 - 8/31/1996
0 - 2400

N



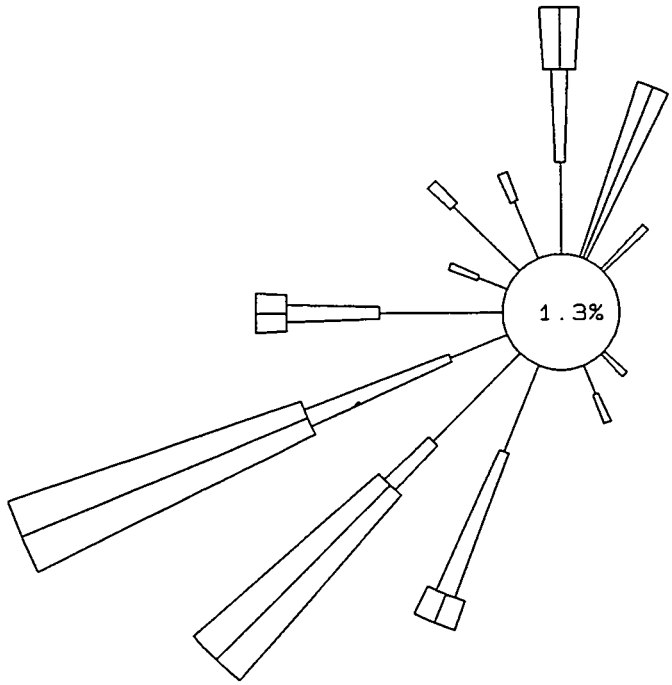


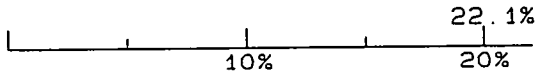
WIND SPEED CLASSES (MPS)

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

98.4% DATA RECOVERED
OF WHICH 7.2% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
9/ 1/1996 - 9/30/1996
0 - 2400





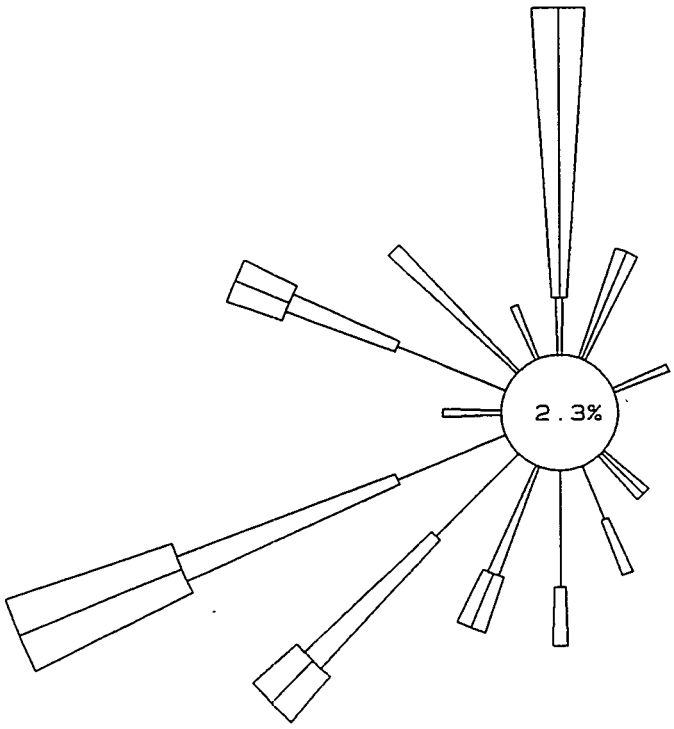
WIND SPEED CLASSES (MPS)

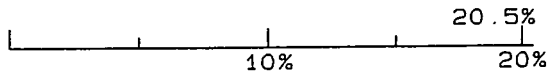
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

90.4% DATA RECOVERED
OF WHICH 11.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
10/ 1/1996 - 10/31/1996
0 - 2400

N



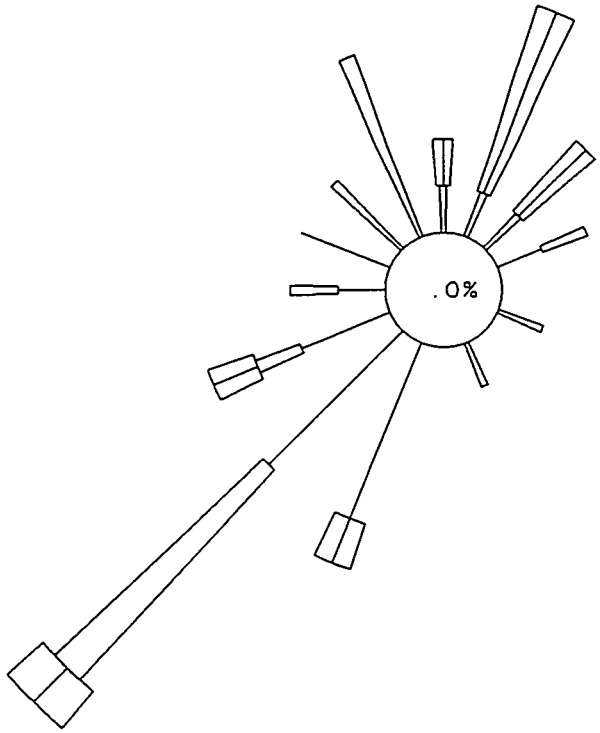


WIND SPEED CLASSES (MPS)

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

84.1% DATA RECOVERED
OF WHICH 7.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
11/ 1/1996 - 11/30/1996
0 - 2400



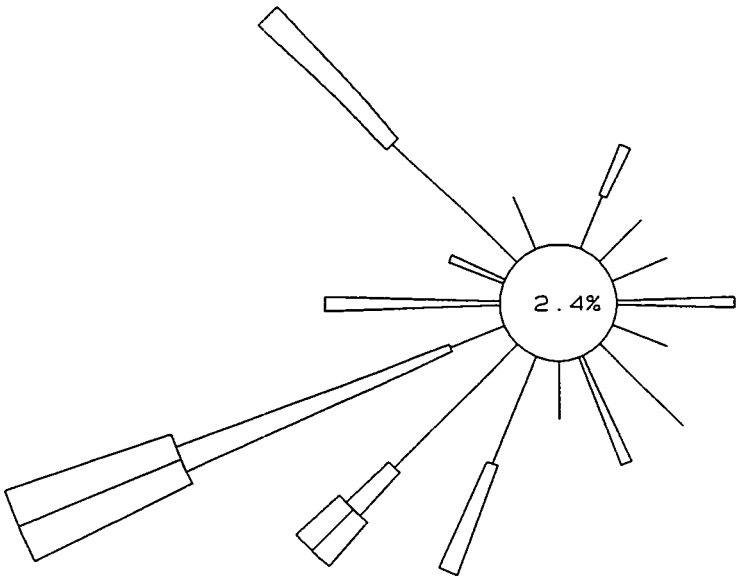
WIND SPEED CLASSES (MPS)

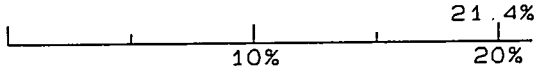
CALM	o	WS <= .5
1	I	.5< WS <= 1.8
2	□	1.8< WS <= 3.3
3	□□	3.3< WS <= 5.4
4	□□□	5.4< WS <= 8.5
5	□□□□	8.5< WS <=10.8
6	□□□□□	10.8< WS

75.1% DATA RECOVERED
OF WHICH 8.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS E
8 METER HEIGHT - Total Hours
12/ 1/1996 - 12/31/1996
0 - 2400

N





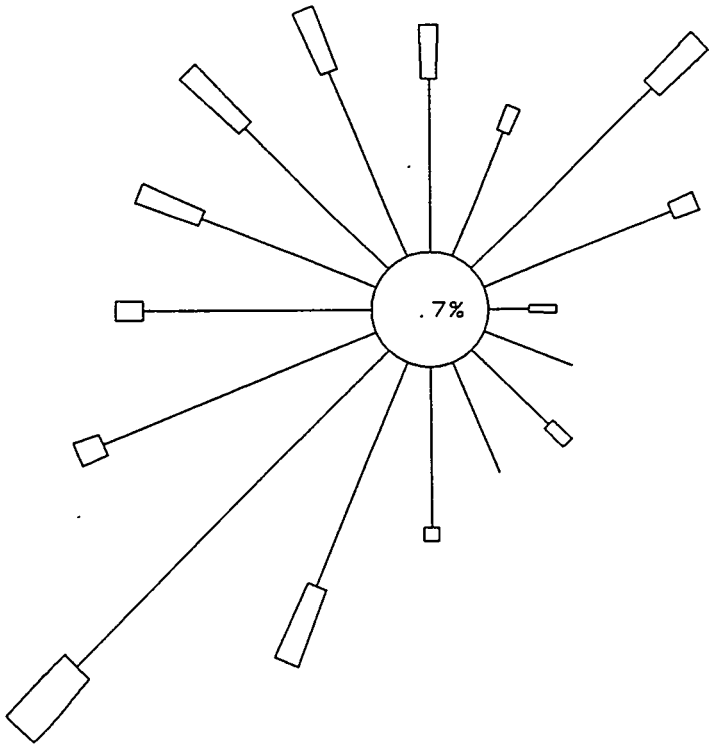
WIND SPEED CLASSES (MPS)

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

58.7% DATA RECOVERED
OF WHICH 9.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
1/ 1/1996 - 1/31/1996
0 - 2400

N



13.8%
10%

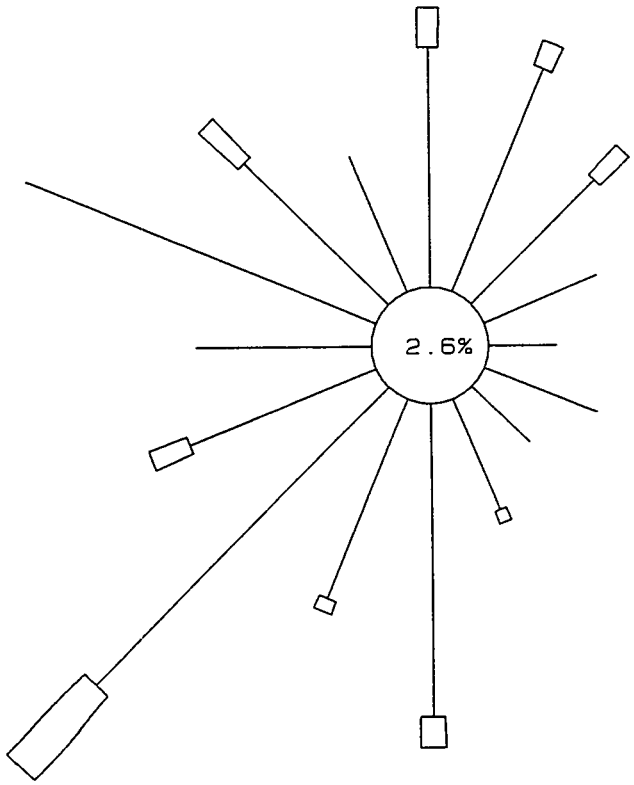
WIND SPEED CLASSES (MPS)

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

74.2% DATA RECOVERED
OF WHICH 51.1% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
2/ 1/1996 - 2/29/1996
0 - 2400

N



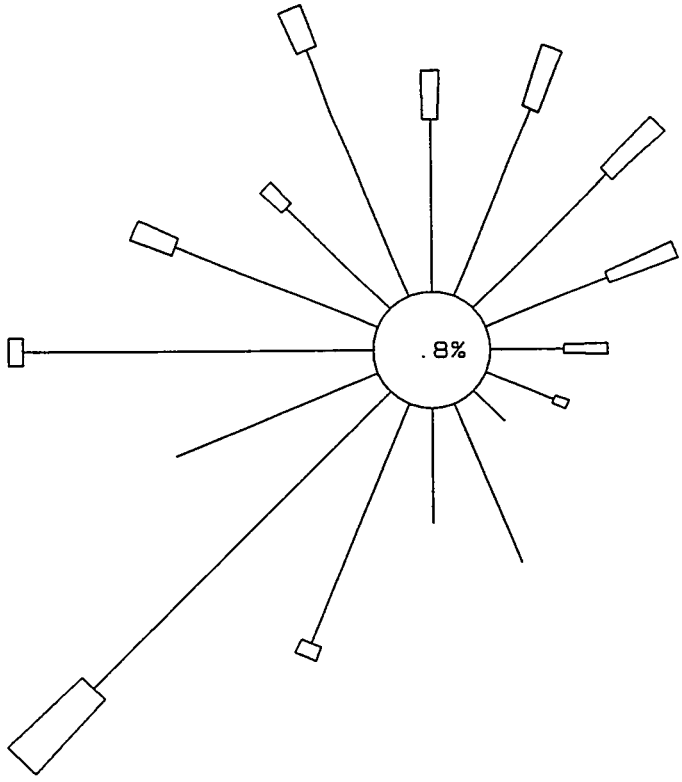
14 3%
10%

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

83.8% DATA RECOVERED
OF WHICH 46.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
3/ 1/1996 - 3/31/1996
0 - 2400



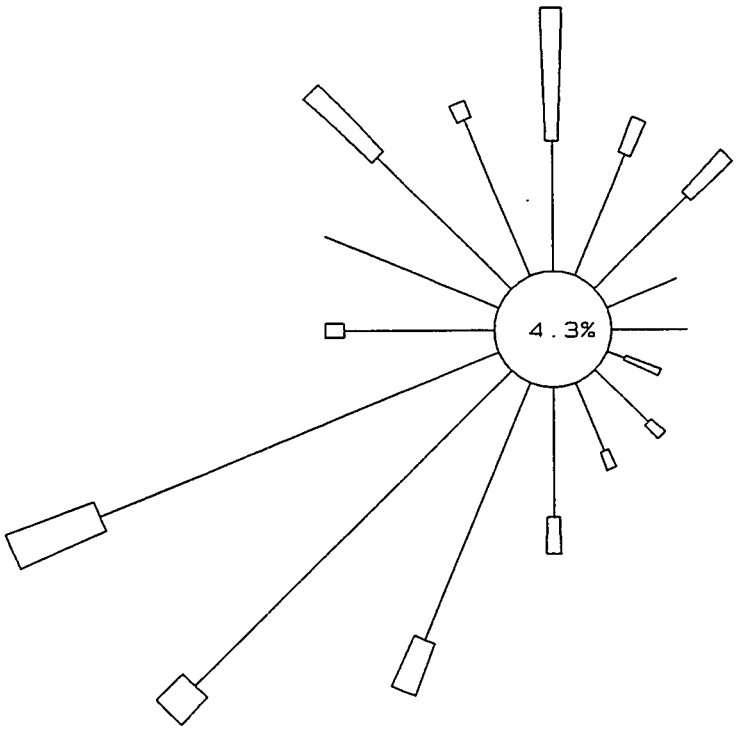
WIND SPEED CLASSES (MPS)

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

82.7% DATA RECOVERED
OF WHICH 40.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
4/ 1/1996 - 4/30/1996
0 - 2400

N



15.0%
10%

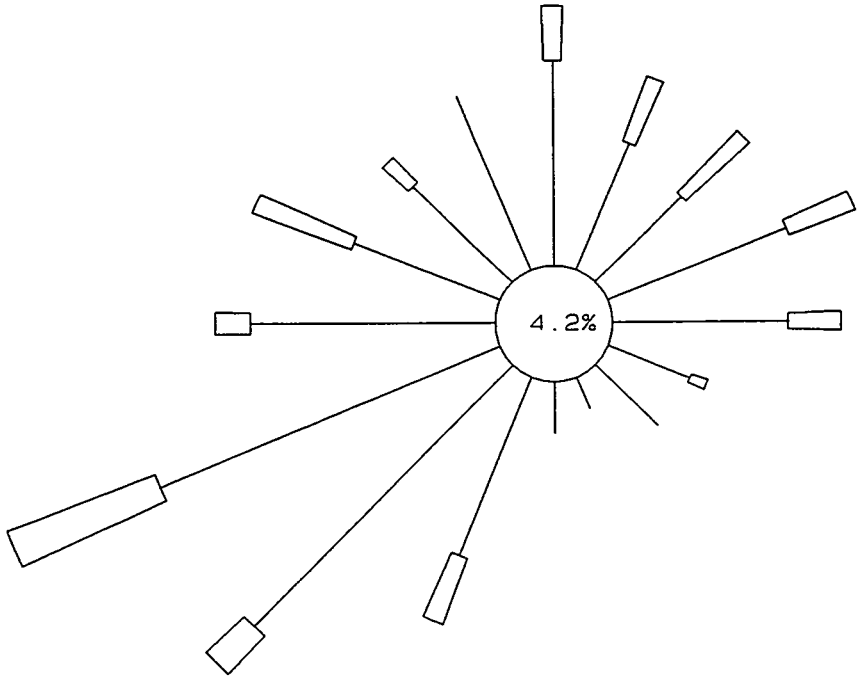
WIND SPEED CLASSES (MPS)

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

96.8% DATA RECOVERED
OF WHICH 26.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
5/ 1/1996 - 5/31/1996
0 - 2400

N



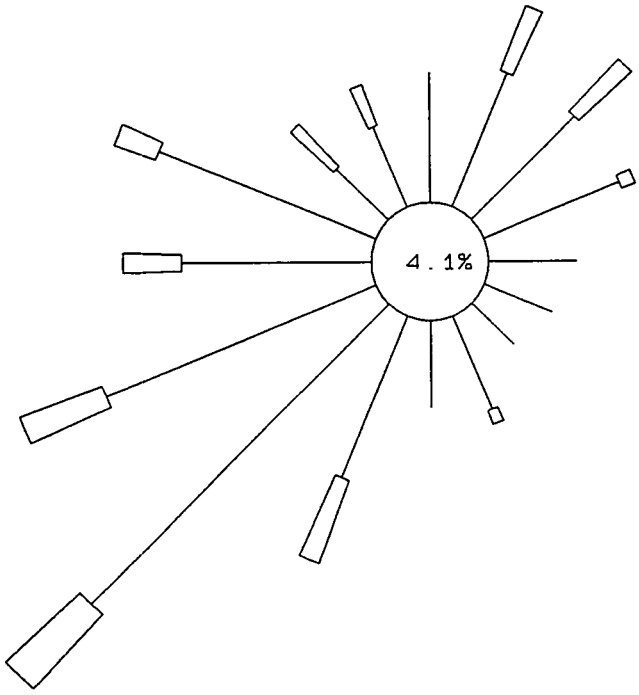
14.1%
10%

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 28.6% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
6/ 1/1996 - 6/30/1996
0 - 2400

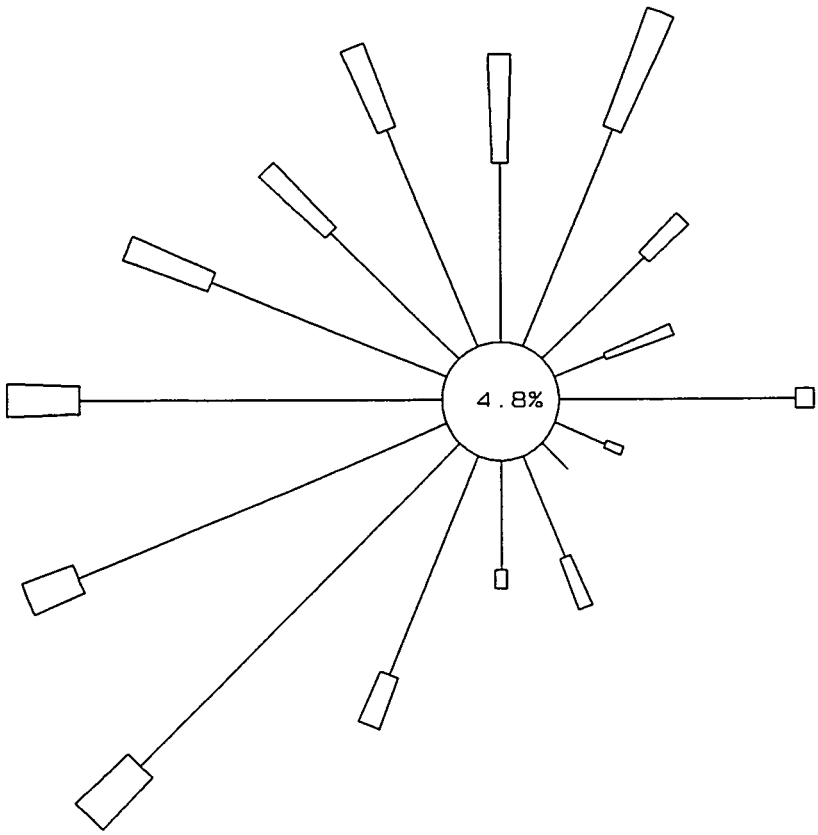


WIND SPEED CLASSES (MPS)

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 30.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
7/ 1/1996 - 7/31/1996
0 - 2400

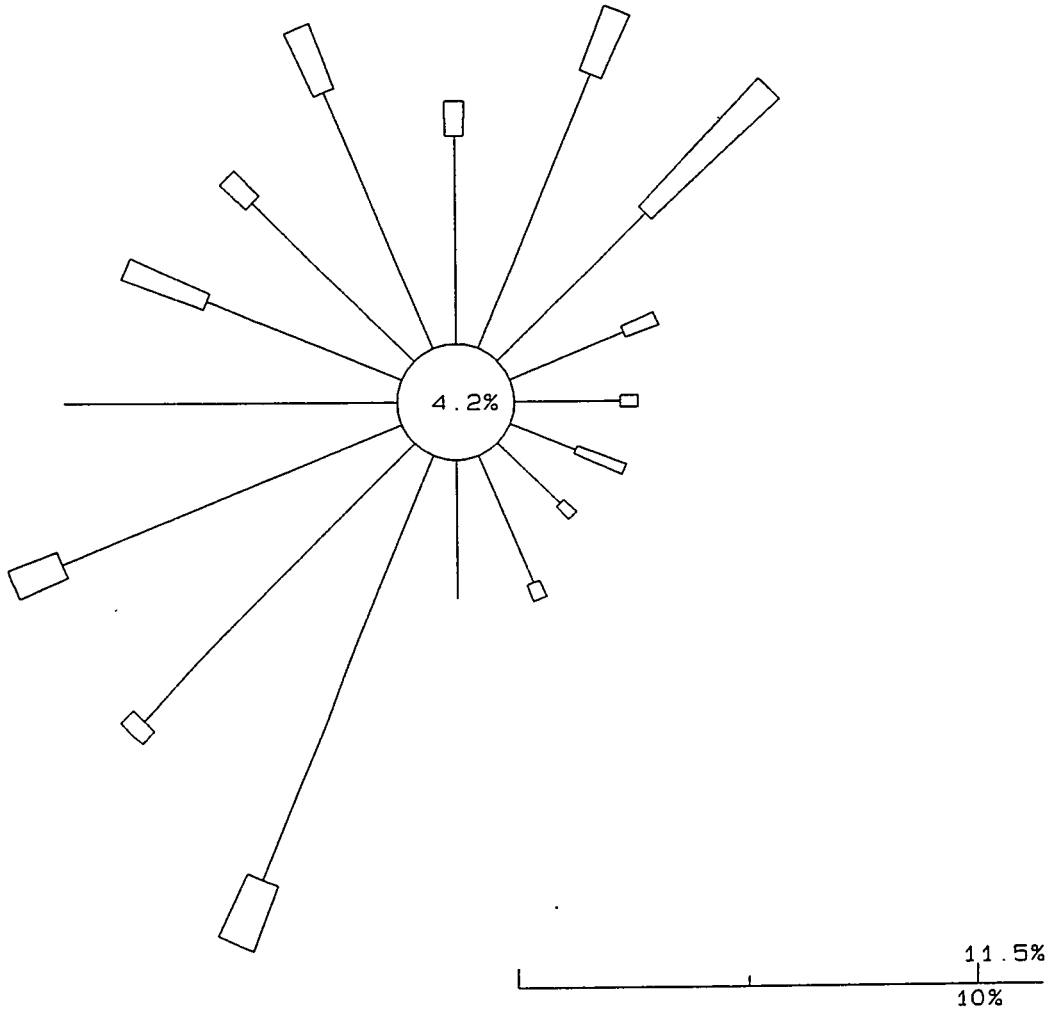


WIND SPEED CLASSES (MPS)

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 33.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
8/ 1/1996 - 8/31/1996
0 - 2400



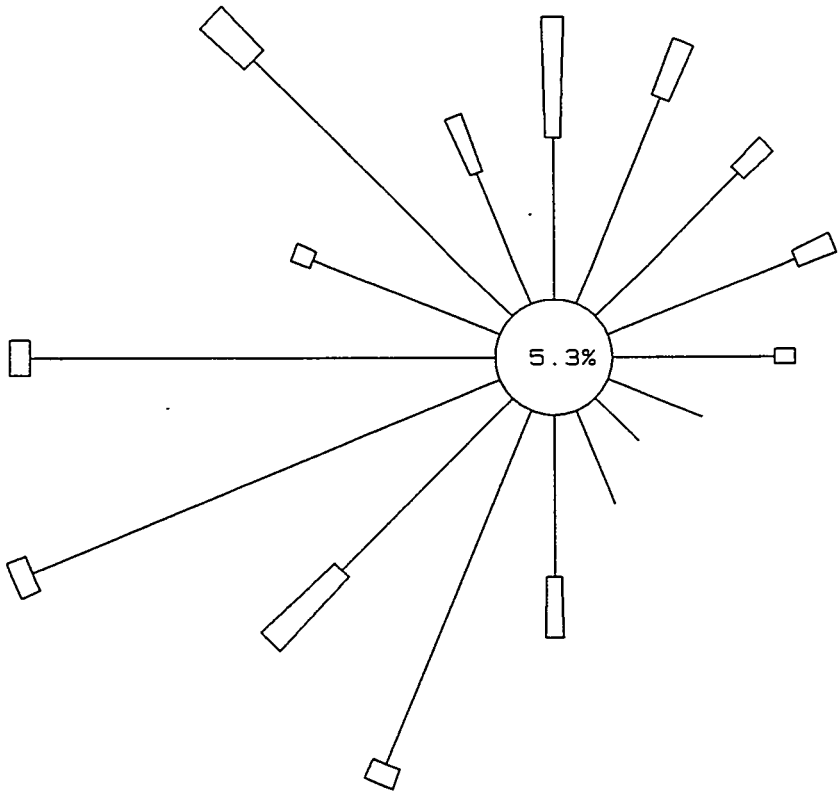
WIND SPEED CLASSES (MPS)

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

98.4% DATA RECOVERED
OF WHICH 35.8% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
9/ 1/1996 - 9/30/1996
0 - 2400

N



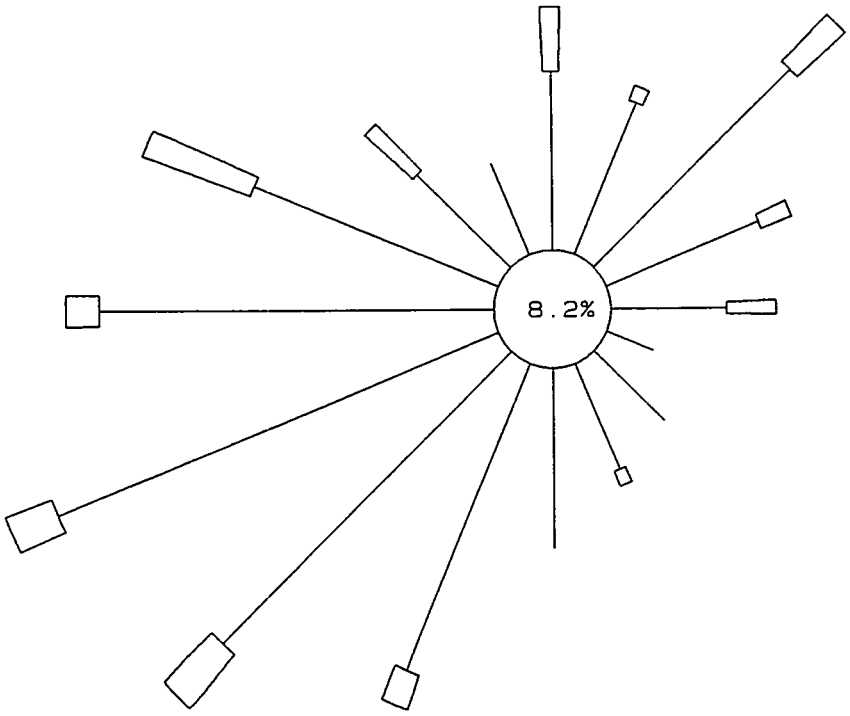
11.5%
10%

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

90.4% DATA RECOVERED
OF WHICH 34.7% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
10/ 1/1996 - 10/31/1996
0 - 2400

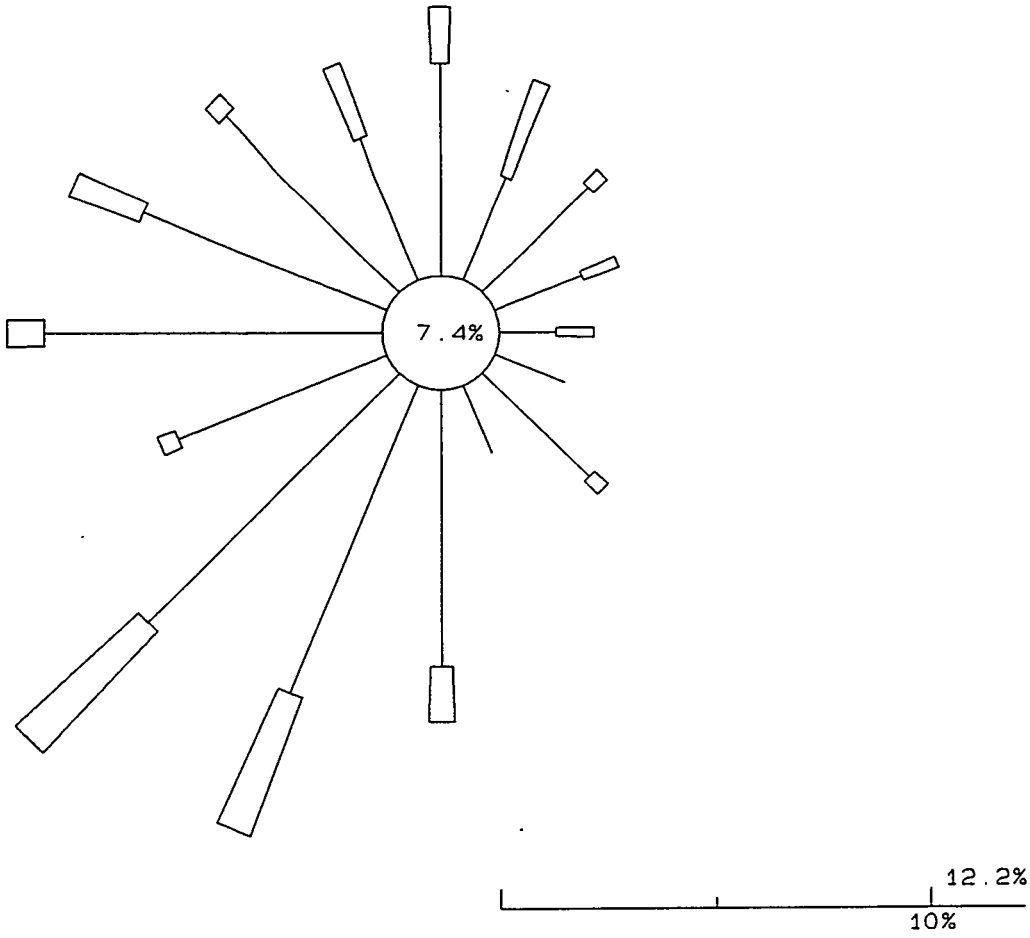


WIND SPEED CLASSES (MPS)

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

84.1% DATA RECOVERED
OF WHICH 43.0% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
11/ 1/1996 - 11/30/1996
0 - 2400

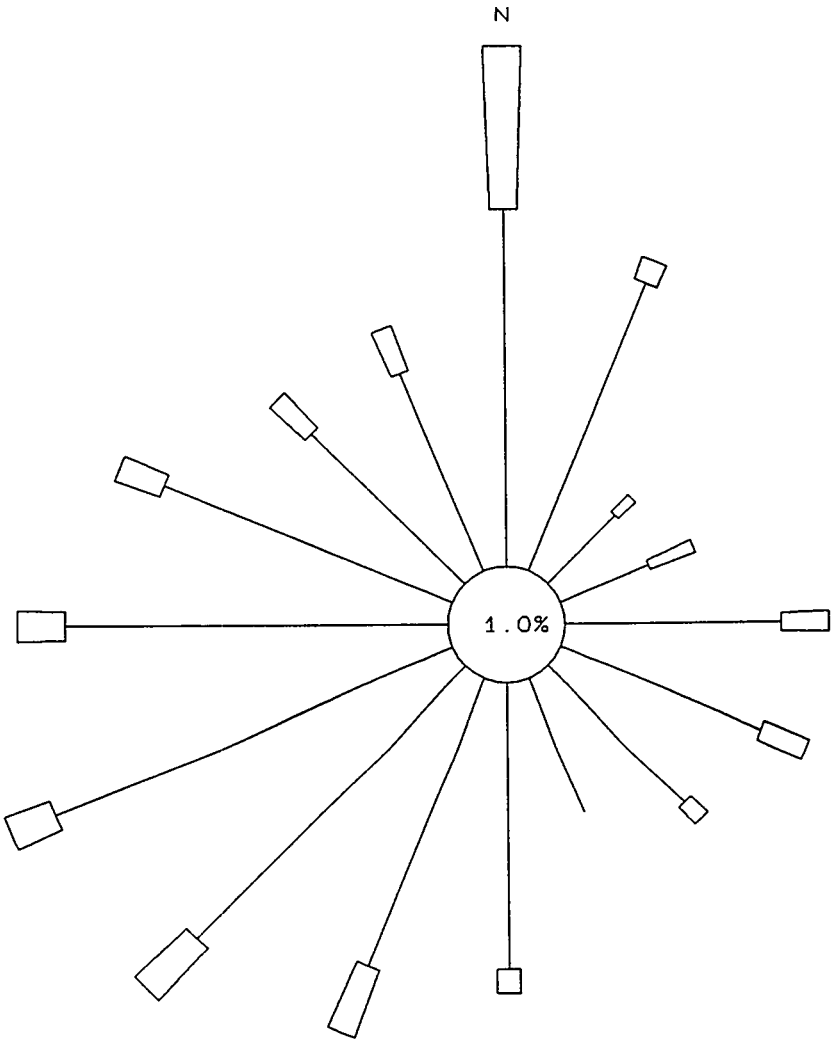


WIND SPEED CLASSES (MPS)

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

75.1% DATA RECOVERED
OF WHICH 42.3% IS
REPORTED ABOVE

SPILL TEST FACILITY 24 METER TOWER
STABILITY CLASS F
8 METER HEIGHT - Total Hours
12/ 1/1996 - 12/31/1996
0 - 2400



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

58.7% DATA RECOVERED
OF WHICH 47.8% IS
REPORTED ABOVE

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

Two Meters

1-12	Total Hours (0000-2400), January-December, 1996
13-24	Morning Transition (0600-1000), January-December 1996
25-36	Late Mid-day (1000-1600), January-December, 1996
37-48	Evening Transition (1600-2000), January-December 1996
49-60	Night Time (2000-0600), January-December, 1996
61-72	All Stability Class A (Yamartino Sigma Theta), January-December, 1996
73-84	All Stability Class B (Yamartino Sigma Theta), January-December, 1996
85-96	All Stability Class C (Yamartino Sigma Theta), January-December, 1996
97-108	All Stability Class D (Yamartino Sigma Theta), January-December, 1996
109-120	All Stability Class E (Yamartino Sigma Theta), January-December, 1996
121-132	All Stability Class F (Yamartino Sigma Theta), January-December, 1996

Eight Meters

133-144	Total Hours (0000-2400), January-December, 1996
145-156	Morning Transition (0600-1000), January-December 1996
157-168	Late Mid-day (1000-1600), January-December, 1996
169-180	Evening Transition (1600-2000), January-December 1996
181-192	Night Time (2000-0600), January-December, 1996
193-204	All Stability Class A (Yamartino Sigma Theta), January-December, 1996
205-216	All Stability Class B (Yamartino Sigma Theta), January-December, 1996

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

217-228 All Stability Class C (Yamartino Sigma Theta), January-December, 1996

229-240 All Stability Class D (Yamartino Sigma Theta), January-December, 1996

241-252 All Stability Class E (Yamartino Sigma Theta), January-December, 1996

253-264 All Stability Class F (Yamartino Sigma Theta), January-December, 1996

METEOROLOGICAL JOINT FREQUENCY DISTRIBUTION (PERCENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

2 METER HEIGHT - Total Hours

1/ 1/1996 - 1/31/1996
0 - 2400 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.3	.7	.5	.5	.2	.0	5.3	2.4	N
NNE	2	6.2	.7	1.3	.7	.0	.0	8.9	2.0	NNE
NE	3	6.3	.2	1.1	.2	.0	.0	7.8	1.6	NE
ENE	4	5.3	.5	.2	.0	.0	.0	6.0	1.2	ENE
E	5	4.3	.0	.0	.0	.0	.0	4.3	1.0	E
ESE	6	4.0	.2	.0	.0	.0	.0	4.2	1.0	ESE
SE	7	3.3	.2	.0	.0	.0	.0	3.4	.9	SE
SSE	8	3.1	.2	.0	.0	.0	.0	3.3	1.0	SSE
S	9	3.8	.7	.5	.2	.0	.0	5.3	1.6	S
SSW	10	7.8	.7	.2	.5	.7	.0	10.0	2.2	SSW
SW	11	9.4	1.4	.4	.2	1.1	.0	12.5	2.1	SW
WSW	12	4.2	.5	.0	.4	.0	.0	5.1	1.6	WSW
W	13	5.3	.0	.0	.0	.0	.0	5.3	1.1	W
WNW	14	4.7	.2	.2	.0	.0	.0	5.1	1.2	WNW
NW	15	2.7	.7	.2	.4	.4	.0	4.3	2.7	NW
NNW	16	3.3	.5	.9	.4	.7	.2	6.0	3.4	NNW
CALM		3.4						3.4		
TOTAL		80.3	7.6	5.4	3.4	3.1	.2	100.0	1.7	

74.2% 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

2 METER HEIGHT - Total Hours 2/ 1/1996 - 2/29/1996
0 - 2400 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.1	.2	.0	.0	.0	.0	5.2	1.1	N
NNE	2	3.7	.2	.0	.0	.0	.0	3.9	1.0	NNE
NE	3	5.2	.0	.0	.0	.0	.0	5.2	1.0	NE
ENE	4	3.2	.0	.7	.0	.0	.0	3.9	1.5	ENE
E	5	3.9	.7	.3	.0	.0	.0	4.9	1.4	E
ESE	6	3.4	.0	.0	.0	.0	.0	3.4	.9	ESE
SE	7	2.7	.2	.0	.0	.0	.0	2.9	1.0	SE
SSE	8	4.1	.3	.0	.0	.0	.0	4.4	1.1	SSE
S	9	5.2	1.2	.3	.3	.0	.0	7.1	1.6	S
SSW	10	7.6	3.7	1.4	1.9	1.5	1.4	17.4	3.8	SSW
SW	11	7.6	1.7	2.4	1.4	.7	.2	13.9	2.9	SW
WSW	12	5.6	.3	.8	.2	.0	.0	6.9	1.7	WSW
W	13	3.7	.3	.0	.0	.0	.0	4.1	1.0	W
WNW	14	4.1	.2	.2	.0	.0	.0	4.4	1.3	WNW
NW	15	3.2	.7	.0	.0	.0	.0	3.9	1.2	NW
NNW	16	3.0	.2	.0	.0	.0	.0	3.2	1.0	NNW
CALM		5.2						5.2		
TOTAL		76.6	9.8	6.1	3.7	2.2	1.5	100.0	1.8	

84.9% 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 3/ 1/1996 - 3/31/1996
0 - 2400 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.7	1.8	2.1	.8	.3	.2	8.9	3.1	N
NNE	2	4.4	1.3	2.4	1.5	.3	.3	10.2	3.4	NNE
NE	3	3.3	.8	1.3	.0	.0	.0	5.4	2.1	NE
ENE	4	2.1	1.1	.0	.0	.0	.0	3.3	1.5	ENE
E	5	4.1	.8	.0	.0	.0	.0	4.9	1.3	E
ESE	6	2.4	.7	.0	.0	.0	.0	3.1	1.3	ESE
SE	7	2.8	.5	.0	.0	.0	.0	3.3	1.3	SE
SSE	8	3.9	.2	.0	.0	.0	.0	4.1	1.1	SSE
S	9	2.8	.7	.0	.0	.0	.2	3.6	1.8	S
SSW	10	4.9	2.0	.7	.7	1.0	1.8	10.9	4.4	SSW
SW	11	7.2	1.1	2.0	4.1	1.3	.0	15.6	3.7	SW
WSW	12	4.2	1.5	.5	.2	.0	.0	6.3	1.7	WSW
W	13	3.7	.3	.2	.2	.0	.0	4.4	1.4	W
WNW	14	2.4	.2	.0	.2	.0	.0	2.8	1.6	WNW
NW	15	3.1	1.1	.3	.8	.3	.0	5.7	3.0	NW
NNW	16	3.6	1.1	1.0	.7	.0	.0	6.3	2.3	NNW
CALM		1.3						1.3		
TOTAL		59.8	15.1	10.4	8.9	3.3	2.4	100.0	2.6	

82.7% 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

4/ 1/1996 - 4/30/1996
0 - 2400 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.9	.9	3.4	.7	.0	.0	6.9	3.4	N
NNE	2	.9	.7	3.3	2.7	.1	.0	7.7	4.7	NNE
NE	3	4.0	1.3	2.2	.7	.4	.0	8.6	3.0	NE
ENE	4	2.7	.7	.6	.1	.0	.0	4.2	1.9	ENE
E	5	.9	.4	.1	.0	.0	.0	1.4	1.8	E
ESE	6	1.6	.3	.0	.0	.0	.0	1.9	1.3	ESE
SE	7	2.2	1.0	.1	.0	.0	.0	3.3	1.6	SE
SSE	8	2.7	.1	.0	.0	.0	.0	2.9	1.2	SSE
S	9	2.6	1.1	.3	.0	.1	.0	4.2	1.9	S
SSW	10	7.6	1.7	1.3	2.4	3.3	1.7	18.1	4.9	SSW
SW	11	6.2	2.4	2.6	5.3	.7	.3	17.5	4.1	SW
WSW	12	3.0	.4	.9	.9	.1	.0	5.3	2.6	WSW
W	13	2.4	.1	.3	.0	.0	.0	2.9	1.5	W
WNW	14	2.0	.7	.4	.4	.0	.0	3.6	2.5	WNW
NW	15	2.0	1.6	1.3	1.4	.0	.0	6.3	3.2	NW
NNW	16	1.4	1.3	.9	.7	.1	.0	4.4	3.3	NNW
CALM		.9						.9		
TOTAL		44.9	14.9	17.6	15.5	5.0	2.0	100.0	3.4	

96.8% 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/ 1/1996 - 5/31/1996
0 - 2400 (PST)

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	2.0	.8	.5	1.5	.5	.0	5.4	4.1	N
NNE	2	2.8	1.1	1.3	.8	.3	.0	6.3	3.2	NNE
NE	3	3.1	.1	.1	.4	.1	.0	3.9	2.2	NE
ENE	4	3.6	.8	.0	.1	.0	.0	4.6	1.5	ENE
E	5	3.0	.4	.4	.0	.0	.0	3.8	1.6	E
ESE	6	.5	.7	.0	.0	.0	.0	1.2	1.9	ESE
SE	7	1.6	.7	.0	.0	.0	.0	2.3	1.5	SE
SSE	8	1.5	.7	.1	.0	.0	.0	2.3	1.5	SSE
S	9	1.9	.5	.3	.1	.3	.0	3.1	2.5	S
SSW	10	3.4	2.2	3.2	2.4	2.6	1.5	15.2	5.4	SSW
SW	11	5.4	3.4	6.9	8.2	1.2	.1	25.1	4.4	SW
WSW	12	4.0	2.0	2.7	1.2	.0	.0	9.9	2.8	WSW
W	13	3.2	.5	.7	.4	.0	.0	4.8	2.0	W
WNW	14	2.6	.5	.8	.0	.0	.0	3.9	2.0	WNW
NW	15	1.6	.9	.4	.3	.1	.0	3.4	2.5	NW
NNW	16	2.0	.3	.7	.4	.1	.0	3.5	2.8	NNW
CALM		1.3						1.3		
TOTAL		43.5	15.6	18.1	15.9	5.2	1.6	100.0	3.4	

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 6/ 1/1996 - 6/30/1996
0 - 2400 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.1	.3	.3	.0	.0	.0	2.6	1.6	N
NNE	2	3.6	.7	.0	.0	.0	.0	4.3	1.2	NNE
NE	3	3.6	1.1	.0	.0	.0	.0	4.7	1.3	NE
ENE	4	3.3	.0	.0	.0	.0	.0	3.3	1.2	ENE
E	5	2.2	.7	.0	.0	.0	.0	2.9	1.3	E
ESE	6	1.8	.6	.0	.0	.0	.0	2.4	1.4	ESE
SE	7	2.6	.7	.6	.0	.0	.0	3.9	1.8	SE
SSE	8	1.1	1.0	.0	.0	.0	.0	2.1	1.6	SSE
S	9	2.5	1.0	.3	.3	.1	.0	4.2	2.1	S
SSW	10	5.7	1.5	2.8	4.7	2.9	.0	17.6	4.7	SSW
SW	11	6.7	3.2	6.5	9.3	2.5	.3	28.5	4.7	SW
WSW	12	4.3	1.3	1.5	.4	.0	.0	7.5	2.1	WSW
W	13	4.2	1.5	.3	.0	.0	.0	6.0	1.5	W
WNW	14	2.8	.4	.0	.0	.0	.0	3.2	1.3	WNW
NW	15	2.1	.1	.1	.0	.0	.0	2.4	1.4	NW
NNW	16	1.7	.0	.0	.0	.0	.0	1.7	1.0	NNW
CALM		2.8						2.8		
TOTAL		53.1	14.0	12.4	14.7	5.6	.3	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

2 METER HEIGHT - Total Hours 7/ 1/1996 - 7/31/1996
0 - 2400 (PST)

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	.4	.3	.4	.1	.0	4.0	2.1	N
NNE	2	2.7	1.2	.5	.3	.0	.0	4.7	2.1	NNE
NE	3	3.8	.8	.5	.0	.0	.0	5.1	1.6	NE
ENE	4	3.2	.9	.0	.1	.0	.0	4.3	1.5	ENE
E	5	2.2	.0	.3	.1	.1	.1	2.8	2.6	E
ESE	6	1.5	.3	.1	.0	.0	.0	1.9	1.5	ESE
SE	7	2.3	.9	.7	.1	.0	.0	4.0	2.1	SE
SSE	8	1.5	.8	.4	.1	.0	.0	2.8	2.1	SSE
S	9	2.0	.7	.5	.0	.3	.0	3.5	2.6	S
SSW	10	5.9	1.9	2.6	2.7	.7	.0	13.7	3.4	SSW
SW	11	5.8	3.6	9.1	7.7	.9	.0	27.2	4.2	SW
WSW	12	5.4	.9	3.0	.0	.0	.0	9.3	2.3	WSW
W	13	2.7	.0	.4	.0	.0	.0	3.1	1.5	W
WNW	14	2.7	.1	.3	.0	.0	.0	3.1	1.4	WNW
NW	15	1.9	1.1	.1	.3	.0	.0	3.4	2.1	NW
NNW	16	2.6	.7	.3	.3	.0	.0	3.8	2.0	NNW
CALM		3.4						3.4		
TOTAL		52.2	14.4	19.1	12.1	2.2	.1	100.0	2.7	

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/ 1/1996 - 8/31/1996
0 - 2400 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.2	.3	.1	.0	.1	.0	2.7	1.8	N
NNE	2	5.3	1.1	.1	.0	.0	.0	6.6	1.3	NNE
NE	3	4.6	1.0	.1	.3	.0	.0	6.0	1.5	NE
ENE	4	4.1	.1	.0	.0	.0	.0	4.2	1.0	ENE
E	5	2.9	1.2	.3	.0	.0	.0	4.4	1.6	E
ESE	6	2.5	.8	.0	.0	.0	.0	3.3	1.4	ESE
SE	7	2.0	.3	.1	.0	.0	.0	2.5	1.5	SE
SSE	8	2.6	.4	.1	.5	.0	.0	3.7	2.2	SSE
S	9	3.0	1.0	.3	.1	.1	.0	4.5	2.1	S
SSW	10	5.1	2.7	1.8	4.4	1.2	.0	15.2	4.1	SSW
SW	11	5.5	5.6	5.2	4.1	2.7	.0	23.1	4.2	SW
WSW	12	4.1	1.1	1.0	.0	.0	.0	6.1	1.7	WSW
W	13	2.7	.5	.4	.0	.0	.0	3.7	1.5	W
WNW	14	3.6	.3	.4	.0	.0	.0	4.2	1.4	WNW
NW	15	2.7	.7	.1	.0	.0	.0	3.6	1.3	NW
NNW	16	3.3	.7	.0	.0	.0	.0	4.0	1.2	NNW
CALM		2.3						2.3		
TOTAL		58.5	17.8	10.1	9.4	4.2	.0	100.0	2.5	

98.4% 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

9/ 1/1996 - 9/30/1996
0 - 2400 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.8	.8	.5	.0	.0	.0	4.0	1.6	N
NNE	2	3.8	1.4	.6	.2	.0	.0	6.0	1.8	NNE
NE	3	4.6	.6	.2	.0	.0	.0	5.4	1.2	NE
ENE	4	3.5	.8	.0	.0	.0	.0	4.3	1.3	ENE
E	5	2.3	.8	.2	.0	.0	.0	3.2	1.5	E
ESE	6	.9	.5	.0	.0	.0	.0	1.4	1.2	ESE
SE	7	1.7	.6	.8	.0	.0	.0	3.1	2.0	SE
SSE	8	1.4	.8	.0	.0	.0	.0	2.2	1.4	SSE
S	9	3.7	2.0	.0	.2	.0	.0	5.8	1.6	S
SSW	10	4.5	2.3	1.5	3.1	.8	.2	12.3	4.0	SSW
SW	11	5.2	1.8	7.1	7.1	1.1	.2	22.4	4.4	SW
WSW	12	6.0	1.5	.8	.3	.0	.0	8.6	1.7	WSW
W	13	3.7	1.1	.3	.0	.0	.0	5.1	1.5	W
WNW	14	2.5	.5	.0	.3	.0	.0	3.2	1.8	WNW
NW	15	3.2	.3	.3	.3	.0	.0	4.1	1.7	NW
NNW	16	3.5	.8	.2	.0	.0	.0	4.5	1.5	NNW
CALM		4.5						4.5		
TOTAL		57.8	16.4	12.3	11.4	1.8	.3	100.0	2.4	

90.4% 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 10/ 1/1996 - 10/31/1996
0 - 2400 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.2	1.6	.5	.6	.3	.0	6.2	2.7	N
NNE	2	3.0	1.0	1.8	2.2	.5	.0	8.5	3.7	NNE
NE	3	4.8	1.4	.8	.5	.0	.0	7.5	2.0	NE
ENE	4	3.5	2.2	.3	.8	.0	.0	6.9	2.1	ENE
E	5	2.9	.6	.0	.0	.0	.0	3.5	1.3	E
ESE	6	2.2	.8	.0	.0	.0	.0	3.0	1.3	ESE
SE	7	1.8	.2	.0	.0	.0	.0	1.9	1.1	SE
SSE	8	2.1	.2	.0	.0	.0	.0	2.2	1.1	SSE
S	9	4.8	.5	.0	.0	.0	.0	5.3	1.0	S
SSW	10	5.8	1.0	.2	1.4	.2	.0	8.5	2.4	SSW
SW	11	6.5	1.3	1.8	2.6	.2	.0	12.3	3.0	SW
WSW	12	6.5	1.1	1.3	.5	.0	.0	9.4	1.9	WSW
W	13	4.0	.5	.3	.0	.0	.0	4.8	1.3	W
WNW	14	4.0	1.4	.5	.0	.0	.0	5.9	1.7	WNW
NW	15	3.4	1.4	.5	.0	.2	.0	5.4	1.9	NW
NNW	16	3.0	.5	.2	.2	.2	.0	4.0	2.0	NNW
CALM		4.6						4.6		
TOTAL		66.1	15.7	8.0	8.8	1.4	.0	100.0	2.0	

84.1% 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 - Total Hours 11/ 1/1996 - 11/30/1996
0 - 2400 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.3	1.5	2.4	1.1	.4	.0	8.7	3.3	N
NNE	2	3.5	2.6	4.1	1.7	.4	.0	12.2	3.3	NNE
NE	3	3.0	2.8	1.1	.2	.0	.0	7.0	2.2	NE
ENE	4	3.5	1.8	.9	.0	.0	.0	6.3	1.9	ENE
E	5	3.3	.2	.4	.0	.0	.0	3.9	1.4	E
ESE	6	2.0	.4	.0	.0	.0	.0	2.4	1.2	ESE
SE	7	2.8	.2	.0	.0	.0	.0	3.0	1.0	SE
SSE	8	3.0	.4	.0	.0	.0	.0	3.3	1.1	SSE
S	9	4.4	.0	.0	.0	.0	.0	4.4	1.0	S
SSW	10	7.9	1.5	.2	.7	.2	.0	10.5	1.9	SSW
SW	11	7.8	1.7	.6	.9	.7	.0	11.6	2.4	SW
WSW	12	4.3	1.1	.0	.0	.0	.0	5.4	1.4	WSW
W	13	4.3	.2	.0	.0	.0	.0	4.4	1.1	W
WNW	14	4.6	.2	.0	.0	.0	.0	4.8	1.1	WNW
NW	15	2.8	.2	.0	.0	.0	.0	3.0	1.1	NW
NNW	16	3.9	.6	.2	.0	.2	.0	4.8	1.6	NNW
CALM		4.3						4.3		
TOTAL		68.6	15.2	9.8	4.6	1.8	.0	100.0	1.9	

75.1% 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 - Total Hours 12/ 1/1996 - 12/31/1996
0 - 2400 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.6	.2	.0	.0	.0	.0	4.8	1.1	N
NNE	2	3.7	.2	.0	.0	.0	.0	3.9	1.2	NNE
NE	3	3.9	.5	.0	.0	.0	.0	4.3	1.1	NE
ENE	4	7.1	.0	.0	.0	.0	.0	7.1	1.0	ENE
E	5	4.1	.5	.0	.0	.0	.0	4.6	1.1	E
ESE	6	5.9	.2	.0	.0	.0	.0	6.2	1.0	ESE
SE	7	3.2	.2	.0	.0	.0	.0	3.4	1.1	SE
SSE	8	3.9	.5	.0	.0	.0	.0	4.3	1.1	SSE
S	9	4.3	.2	.2	.0	.0	.0	4.8	1.1	S
SSW	10	5.9	.7	1.4	4.6	3.4	1.8	17.8	5.7	SSW
SW	11	5.3	1.6	2.5	.9	.2	.0	10.5	2.7	SW
WSW	12	4.3	1.1	.5	.5	.0	.0	6.4	2.0	WSW
W	13	4.6	.5	.0	.0	.0	.0	5.0	1.1	W
WNW	14	3.2	.7	.0	.0	.0	.0	3.9	1.2	WNW
NW	15	3.9	.7	.0	.0	.0	.0	4.6	1.2	NW
NNW	16	5.0	1.1	.2	.0	.0	.0	6.4	1.3	NNW
CALM		1.8						1.8		
TOTAL		74.8	8.9	4.8	5.9	3.7	1.8	100.0	2.1	

58.7% 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 - Morning Transition 1/ 1/1996 - 1/31/1996
600 - 1000 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.3	.9	.0	.0	.0	.0	5.2	1.3	N
NNE	2	3.5	1.7	.9	.9	.0	.0	7.0	2.6	NNE
NE	3	7.8	.0	.0	.0	.0	.0	7.8	1.1	NE
ENE	4	7.0	.0	.0	.0	.0	.0	7.0	.9	ENE
E	5	6.1	.0	.0	.0	.0	.0	6.1	.7	E
ESE	6	7.0	.0	.0	.0	.0	.0	7.0	.9	ESE
SE	7	3.5	.0	.0	.0	.0	.0	3.5	.7	SE
SSE	8	3.5	.0	.0	.0	.0	.0	3.5	1.0	SSE
S	9	4.3	.0	.0	.9	.0	.0	5.2	1.8	S
SSW	10	7.8	.0	.0	.0	.0	.0	7.8	1.2	SSW
SW	11	9.6	.0	.0	.0	.0	.0	9.6	1.0	SW
WSW	12	6.1	.0	.0	.0	.0	.0	6.1	.9	WSW
W	13	3.5	.0	.0	.0	.0	.0	3.5	1.1	W
WNW	14	2.6	.0	.0	.0	.0	.0	2.6	.8	WNW
NW	15	1.7	.0	.0	.9	.9	.0	3.5	5.0	NW
NNW	16	6.1	.0	.0	.0	1.7	.9	8.7	3.7	NNW
CALM		6.1						6.1		
TOTAL		90.4	2.6	.9	2.6	2.6	.9	100.0	1.5	

74.2% 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 2/ 1/1996 - 2/29/1996
600 - 1000 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.9	.8	.0	.0	.0	.0	5.7	.9	N
NNE	2	1.6	.0	.0	.0	.0	.0	1.6	.8	NNE
NE	3	9.0	.0	.0	.0	.0	.0	9.0	1.0	NE
ENE	4	4.9	.0	.0	.0	.0	.0	4.9	.8	ENE
E	5	9.0	.0	.0	.0	.0	.0	9.0	1.0	E
ESE	6	3.3	.0	.0	.0	.0	.0	3.3	.9	ESE
SE	7	5.7	.0	.0	.0	.0	.0	5.7	.8	SE
SSE	8	2.5	.0	.0	.0	.0	.0	2.5	1.0	SSE
S	9	9.0	1.6	.0	.0	.0	.0	10.7	1.1	S
SSW	10	4.1	.8	.0	.8	1.6	.8	8.2	4.8	SSW
SW	11	5.7	.0	.0	.8	1.6	.8	9.0	3.8	SW
WSW	12	1.6	.0	.0	.0	.0	.0	1.6	.9	WSW
W	13	4.9	.0	.0	.0	.0	.0	4.9	.7	W
WNW	14	3.3	.0	.0	.0	.0	.0	3.3	.9	WNW
NW	15	4.1	.0	.0	.0	.0	.0	4.1	.9	NW
NNW	16	2.5	.0	.0	.0	.0	.0	2.5	1.0	NNW
CALM		13.9						13.9		
TOTAL		90.2	3.3	.0	1.6	3.3	1.6	100.0	1.4	

84.9% 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 3/ 1/1996 - 3/31/1996
600 - 1000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.7	.0	1.6	.0	.0	.0	6.3	1.7	N
NNE	2	3.1	.8	3.1	1.6	.0	.0	8.7	3.3	NNE
NE	3	3.9	1.6	2.4	.0	.0	.0	7.9	2.3	NE
ENE	4	3.1	3.1	.0	.0	.0	.0	6.3	1.6	ENE
E	5	9.4	.8	.0	.0	.0	.0	10.2	1.0	E
ESE	6	6.3	.0	.0	.0	.0	.0	6.3	1.0	ESE
SE	7	6.3	.0	.0	.0	.0	.0	6.3	1.0	SE
SSE	8	7.9	.0	.0	.0	.0	.0	7.9	.9	SSE
S	9	5.5	.0	.0	.0	.0	.0	5.5	1.1	S
SSW	10	2.4	.0	.0	.0	.8	.0	3.1	3.2	SSW
SW	11	6.3	.0	.0	.8	2.4	.0	9.4	3.5	SW
WSW	12	3.1	.0	.0	.0	.0	.0	3.1	.8	WSW
W	13	3.1	.0	.0	.0	.0	.0	3.1	.9	W
WNW	14	.8	.0	.0	.0	.0	.0	.8	.7	WNW
NW	15	3.9	.0	1.6	.0	.0	.0	5.5	2.2	NW
NNW	16	4.7	.8	.8	.0	.0	.0	6.3	1.5	NNW
CALM		3.1						3.1		
TOTAL		78.0	7.1	9.4	2.4	3.1	.0	100.0	1.7	

82.7% 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 4/ 1/1996 - 4/30/1996
600 - 1000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.4	.0	4.8	.7	.0	.0	6.9	3.9	N
NNE	2	.7	.0	4.1	4.8	.7	.0	10.3	5.6	NNE
NE	3	8.3	2.8	.7	1.4	1.4	.0	14.5	2.7	NE
ENE	4	6.9	1.4	.0	.7	.0	.0	9.0	1.5	ENE
E	5	1.4	.7	.0	.0	.0	.0	2.1	1.5	E
ESE	6	4.1	.0	.0	.0	.0	.0	4.1	1.0	ESE
SE	7	4.1	.0	.7	.0	.0	.0	4.8	1.2	SE
SSE	8	6.9	.0	.0	.0	.0	.0	6.9	1.0	SSE
S	9	2.1	.0	.0	.0	.0	.0	2.1	.7	S
SSW	10	8.3	.7	.7	2.1	.7	.7	13.1	3.4	SSW
SW	11	4.1	.0	.0	4.8	.7	.7	10.3	5.3	SW
WSW	12	3.4	.0	.0	.7	.7	.0	4.8	3.1	WSW
W	13	2.1	.0	.0	.0	.0	.0	2.1	.8	W
WNW	14	1.4	.7	.0	.0	.0	.0	2.1	1.4	WNW
NW	15	1.4	.0	.0	.0	.0	.0	1.4	1.0	NW
NNW	16	.7	.7	1.4	.7	.0	.0	3.4	3.7	NNW
CALM		2.1						2.1		
TOTAL		59.3	6.9	12.4	15.9	4.1	1.4	100.0	2.9	

96.8% 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 5/ 1/1996 - 5/31/1996
600 - 1000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.3	1.9	.6	.6	.0	.0	4.5	2.8	N
NNE	2	2.6	2.6	3.2	1.3	.0	.0	9.7	3.3	NNE
NE	3	5.8	.0	.0	.6	.6	.0	7.1	2.1	NE
ENE	4	8.4	.0	.0	.6	.0	.0	9.0	1.4	ENE
E	5	5.2	.0	1.3	.0	.0	.0	6.5	1.7	E
ESE	6	1.9	.0	.0	.0	.0	.0	1.9	1.3	ESE
SE	7	3.9	.6	.0	.0	.0	.0	4.5	1.2	SE
SSE	8	3.2	.6	.0	.0	.0	.0	3.9	1.2	SSE
S	9	3.2	.0	.0	.0	.0	.0	3.2	1.2	S
SSW	10	4.5	3.2	3.2	1.3	2.6	1.3	16.1	4.7	SSW
SW	11	3.2	.0	6.5	2.6	3.2	.0	15.5	5.4	SW
WSW	12	3.2	.0	1.3	.0	.0	.0	4.5	1.6	WSW
W	13	3.2	.0	.0	.0	.0	.0	3.2	1.0	W
WNW	14	1.3	.0	.0	.0	.0	.0	1.3	.9	WNW
NW	15	1.9	.6	.0	.0	.0	.0	2.6	1.4	NW
NNW	16	1.3	.0	.0	.0	.0	.0	1.3	.7	NNW
CALM		5.2						5.2		
TOTAL		59.4	9.7	16.1	7.1	6.5	1.3	100.0	2.8	

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 6/ 1/1996 - 6/30/1996
600 - 1000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.7	.7	.7	.0	.0	.0	4.0	1.8	N
NNE	2	3.3	.0	.0	.0	.0	.0	3.3	.7	NNE
NE	3	6.7	.0	.0	.0	.0	.0	6.7	.7	NE
ENE	4	7.3	.0	.0	.0	.0	.0	7.3	1.0	ENE
E	5	4.0	.0	.0	.0	.0	.0	4.0	.8	E
ESE	6	4.7	.7	.0	.0	.0	.0	5.3	1.3	ESE
SE	7	5.3	.0	2.0	.0	.0	.0	7.3	1.9	SE
SSE	8	2.0	.7	.0	.0	.0	.0	2.7	1.2	SSE
S	9	6.0	1.3	.7	.7	.0	.0	8.7	1.7	S
SSW	10	10.0	2.7	.0	2.7	.7	.0	16.0	2.8	SSW
SW	11	4.0	2.0	.0	3.3	2.7	1.3	13.3	5.5	SW
WSW	12	3.3	.7	.0	.0	.0	.0	4.0	1.1	WSW
W	13	2.7	.0	.0	.0	.0	.0	2.7	.9	W
WNW	14	.7	.7	.0	.0	.0	.0	1.3	1.6	WNW
NW	15	1.3	.0	.7	.0	.0	.0	2.0	2.0	NW
NNW	16	.7	.0	.0	.0	.0	.0	.7	.8	NNW
CALM		10.7						10.7		
TOTAL		75.3	9.3	4.0	6.7	3.3	1.3	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

2 METER HEIGHT - Morning Transition 7/ 1/1996 - 7/31/1996
600 - 1000 (PST)

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	.9	N
NNE	2	4.5	.0	.0	.0	.0	.0	4.5	.7	NNE
NE	3	6.5	.0	.0	.0	.0	.0	6.5	.9	NE
ENE	4	7.1	.0	.0	.0	.0	.0	7.1	.9	ENE
E	5	5.8	.0	.0	.0	.0	.0	5.8	1.1	E
ESE	6	2.6	.0	.0	.0	.0	.0	2.6	1.1	ESE
SE	7	6.5	.6	.0	.0	.0	.0	7.1	1.1	SE
SSE	8	3.2	.6	.0	.0	.0	.0	3.9	1.3	SSE
S	9	2.6	1.3	.6	.0	1.3	.0	5.8	3.6	S
SSW	10	5.8	3.2	1.9	1.9	.0	.0	12.9	2.6	SSW
SW	11	5.8	1.3	1.9	2.6	.6	.0	12.3	3.1	SW
WSW	12	4.5	.6	.0	.0	.0	.0	5.2	1.1	WSW
W	13	.6	.0	.0	.0	.0	.0	.6	.9	W
WNW	14	2.6	.0	.0	.0	.0	.0	2.6	.9	WNW
NW	15	1.9	.6	.0	.0	.0	.0	2.6	1.1	NW
NNW	16	3.2	.0	.0	.0	.0	.0	3.2	.9	NNW
CALM		14.2						14.2		
TOTAL		80.6	8.4	4.5	4.5	1.9	.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 8/ 1/1996 - 8/31/1996
600 - 1000 (PST)

		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	7.3	.7	.0	.0	.0	.0	8.0	.9	NNE
NE	3	9.3	.7	.0	.0	.0	.0	10.0	.9	NE
ENE	4	11.3	.0	.0	.0	.0	.0	11.3	.9	ENE
E	5	7.3	.0	.7	.0	.0	.0	8.0	1.0	E
ESE	6	4.0	.7	.0	.0	.0	.0	4.7	1.1	ESE
SE	7	4.7	.0	.0	.0	.0	.0	4.7	1.1	SE
SSE	8	2.7	.0	.0	.0	.0	.0	2.7	.9	SSE
S	9	3.3	.0	.0	.0	.0	.0	3.3	1.0	S
SSW	10	3.3	.0	1.3	1.3	.0	.0	6.0	2.9	SSW
SW	11	7.3	1.3	1.3	.0	4.0	.0	14.0	4.0	SW
WSW	12	3.3	.0	.0	.0	.0	.0	3.3	.7	WSW
W	13	.7	.0	.0	.0	.0	.0	.7	.9	W
WNW	14	5.3	.0	.0	.0	.0	.0	5.3	.8	WNW
NW	15	4.0	.0	.0	.0	.0	.0	4.0	.7	NW
NNW	16	1.3	.0	.0	.0	.0	.0	1.3	.9	NNW
CALM		10.0						10.0		
TOTAL		88.0	3.3	3.3	1.3	4.0	.0	100.0	1.4	

98.4% 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

2 METER HEIGHT - Morning Transition 9/ 1/1996 - 9/30/1996
600 - 1000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.5	.7	.7	.0	.0	.0	3.0	2.2	N
NNE	2	3.7	.7	.7	.7	.0	.0	5.9	2.1	NNE
NE	3	8.9	1.5	.7	.0	.0	.0	11.1	1.3	NE
ENE	4	8.9	.7	.0	.0	.0	.0	9.6	1.1	ENE
E	5	4.4	.7	.0	.0	.0	.0	5.2	1.1	E
ESE	6	1.5	.0	.0	.0	.0	.0	1.5	.8	ESE
SE	7	.7	.0	.0	.0	.0	.0	.7	.5	SE
SSE	8	3.0	.7	.0	.0	.0	.0	3.7	1.0	SSE
S	9	5.9	1.5	.0	.7	.0	.0	8.1	1.7	S
SSW	10	5.2	.0	.0	2.2	.0	.0	7.4	3.1	SSW
SW	11	5.9	.7	.0	4.4	.7	.0	11.9	3.6	SW
WSW	12	4.4	.0	.0	.7	.0	.0	5.2	1.7	WSW
W	13	2.2	.0	.0	.0	.0	.0	2.2	.5	W
WNW	14	1.5	.0	.0	.0	.0	.0	1.5	.6	WNW
NW	15	.7	.0	.7	.0	.0	.0	1.5	1.9	NW
NNW	16	2.2	.7	.0	.0	.0	.0	3.0	1.4	NNW
CALM		18.5						18.5		
TOTAL		79.3	8.1	3.0	8.9	.7	.0	100.0	1.5	

90.4% 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 10/ 1/1996 - 10/31/1996
600 - 1000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.1	.0	.0	.0	.0	.0	3.1	.6	N
NNE	2	3.9	.8	2.3	3.9	.0	.0	10.9	3.9	NNE
NE	3	10.1	3.9	.8	.8	.0	.0	15.5	1.8	NE
ENE	4	4.7	3.1	.8	.0	.0	.0	8.5	1.6	ENE
E	5	6.2	.0	.0	.0	.0	.0	6.2	1.0	E
ESE	6	4.7	.0	.0	.0	.0	.0	4.7	.8	ESE
SE	7	3.1	.0	.0	.0	.0	.0	3.1	.8	SE
SSE	8	.8	.0	.0	.0	.0	.0	.8	.9	SSE
S	9	2.3	.0	.0	.0	.0	.0	2.3	.7	S
SSW	10	6.2	.8	.0	.0	.0	.0	7.0	1.0	SSW
SW	11	2.3	.0	.0	.0	.0	.0	2.3	.7	SW
WSW	12	2.3	.8	.8	.8	.0	.0	4.7	2.6	WSW
W	13	3.9	.0	.8	.0	.0	.0	4.7	1.6	W
WNW	14	2.3	.8	1.6	.0	.0	.0	4.7	2.2	WNW
NW	15	4.7	.8	.0	.0	.0	.0	5.4	1.1	NW
NNW	16	1.6	.0	.0	.0	.0	.0	1.6	.7	NNW
CALM		14.7						14.7		
TOTAL		76.7	10.9	7.0	5.4	.0	.0	100.0	1.5	

84.1% 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 11/ 1/1996 - 11/30/1996
600 - 1000 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.5	1.8	4.5	.0	.9	.0	12.7	3.0	N
NNE	2	1.8	.9	2.7	.9	.0	.0	6.4	3.4	NNE
NE	3	3.6	1.8	1.8	.0	.0	.0	7.3	2.1	NE
ENE	4	6.4	2.7	.9	.0	.0	.0	10.0	1.7	ENE
E	5	5.5	.0	.0	.0	.0	.0	5.5	.8	E
ESE	6	3.6	.0	.0	.0	.0	.0	3.6	1.2	ESE
SE	7	4.5	.0	.0	.0	.0	.0	4.5	.8	SE
SSE	8	1.8	.0	.0	.0	.0	.0	1.8	1.5	SSE
S	9	6.4	.0	.0	.0	.0	.0	6.4	.9	S
SSW	10	5.5	.0	.0	.9	.0	.0	6.4	2.1	SSW
SW	11	9.1	.0	.0	1.8	1.8	.0	12.7	2.9	SW
WSW	12	2.7	.0	.0	.0	.0	.0	2.7	1.1	WSW
W	13	1.8	.0	.0	.0	.0	.0	1.8	.9	W
WNW	14	3.6	.0	.0	.0	.0	.0	3.6	.8	WNW
NW	15	4.5	.0	.0	.0	.0	.0	4.5	.8	NW
NNW	16	2.7	1.8	.0	.0	.0	.0	4.5	1.4	NNW
CALM		5.5						5.5		
TOTAL		74.5	9.1	10.0	3.6	2.7	.0	100.0	1.8	

75.1% DATA RECOVERED
20.3% 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 12/ 1/1996 - 12/31/1996
600 - 1000 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	7.8	.0	.0	.0	.0	.0	7.8	1.1	N
NNE	2	4.4	.0	.0	.0	.0	.0	4.4	1.0	NNE
NE	3	6.7	2.2	.0	.0	.0	.0	8.9	1.2	NE
ENE	4	5.6	.0	.0	.0	.0	.0	5.6	1.1	ENE
E	5	4.4	1.1	.0	.0	.0	.0	5.6	1.1	E
ESE	6	8.9	.0	.0	.0	.0	.0	8.9	.8	ESE
SE	7	4.4	.0	.0	.0	.0	.0	4.4	1.1	SE
SSE	8	6.7	.0	.0	.0	.0	.0	6.7	1.0	SSE
S	9	4.4	.0	1.1	.0	.0	.0	5.6	1.5	S
SSW	10	7.8	.0	.0	1.1	4.4	2.2	15.6	5.6	SSW
SW	11	3.3	.0	1.1	1.1	.0	.0	5.6	3.1	SW
WSW	12	4.4	1.1	.0	.0	.0	.0	5.6	1.4	WSW
W	13	5.6	1.1	.0	.0	.0	.0	6.7	1.1	W
WNW	14	3.3	.0	.0	.0	.0	.0	3.3	1.2	WNW
NW	15	2.2	.0	.0	.0	.0	.0	2.2	1.1	NW
NNW	16	1.1	.0	.0	.0	.0	.0	1.1	1.1	NNW
CALM		2.2						2.2		
TOTAL		83.3	5.6	2.2	2.2	4.4	2.2	100.0	1.9	

58.7% 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 - Late Mid-Day

1/ 1/1996 - 1/31/1996
1000 - 1600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.6	.0	.6	1.9	.6	.0	3.7	5.4	N
NNE	2	8.7	1.2	1.2	1.2	.0	.0	12.4	1.9	NNE
NE	3	9.3	.0	.0	.0	.0	.0	9.3	.9	NE
ENE	4	7.5	.6	.0	.0	.0	.0	8.1	1.0	ENE
E	5	8.1	.0	.0	.0	.0	.0	8.1	1.0	E
ESE	6	5.6	.6	.0	.0	.0	.0	6.2	.9	ESE
SE	7	6.2	.6	.0	.0	.0	.0	6.8	.9	SE
SSE	8	3.1	.0	.0	.0	.0	.0	3.1	1.0	SSE
S	9	4.3	1.2	1.9	.6	.0	.0	8.1	2.3	S
SSW	10	3.1	1.9	.6	1.2	1.9	.0	8.7	4.3	SSW
SW	11	2.5	2.5	1.2	.6	1.2	.0	8.1	3.7	SW
WSW	12	.6	.0	.0	.0	.0	.0	.6	1.8	WSW
W	13	.6	.0	.0	.0	.0	.0	.6	.8	W
WNW	14	3.1	.0	.0	.0	.0	.0	3.1	.7	WNW
NW	15	.6	.0	.0	.0	.6	.0	1.2	5.2	NW
NNW	16	1.2	.0	1.2	1.2	1.2	.0	5.0	5.6	NNW
CALM		6.8						6.8		
TOTAL		72.0	8.7	6.8	6.8	5.6	.0	100.0	2.1	

74.2% 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

2/ 1/1996 - 2/29/1996
1000 - 1600 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.1	.0	.0	.0	.0	.0	1.1	1.1	N
NNE	2	2.9	.0	.0	.0	.0	.0	2.9	.7	NNE
NE	3	2.9	.0	.0	.0	.0	.0	2.9	1.0	NE
ENE	4	4.0	.0	2.3	.0	.0	.0	6.3	2.0	ENE
E	5	4.6	1.7	1.1	.0	.0	.0	7.4	1.7	E
ESE	6	6.3	.0	.0	.0	.0	.0	6.3	1.0	ESE
SE	7	5.1	.6	.0	.0	.0	.0	5.7	1.1	SE
SSE	8	5.1	.6	.0	.0	.0	.0	5.7	1.3	SSE
S	9	3.4	2.3	1.1	.6	.0	.0	7.4	2.4	S
SSW	10	6.3	5.1	2.9	6.3	1.7	.6	22.9	4.3	SSW
SW	11	3.4	1.7	4.0	4.6	.0	.0	13.7	4.0	SW
WSW	12	2.9	.6	1.7	.6	.0	.0	5.7	2.8	WSW
W	13	2.3	1.1	.0	.0	.0	.0	3.4	1.1	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	1.7	.0	.0	.0	.0	.0	1.7	.8	NNW
CALM		6.9						6.9		
TOTAL		58.9	13.7	13.1	12.0	1.7	.6	100.0	2.4	

84.9% 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

2 METER HEIGHT - Late Mid-Day

3/ 1/1996 - 3/31/1996
1000 - 1600 (PST)

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	3.3	2.2	.0	.0	.0	7.1	2.5	N
NNE	2	2.2	2.2	2.7	1.6	.5	.0	9.3	4.0	NNE
NE	3	.5	.0	1.6	.0	.0	.0	2.2	3.2	NE
ENE	4	.5	1.1	.0	.0	.0	.0	1.6	2.0	ENE
E	5	4.4	1.1	.0	.0	.0	.0	5.5	1.6	E
ESE	6	3.8	2.2	.0	.0	.0	.0	6.0	1.6	ESE
SE	7	2.7	1.6	.0	.0	.0	.0	4.4	1.6	SE
SSE	8	6.0	.5	.0	.0	.0	.0	6.6	1.4	SSE
S	9	3.8	1.6	.0	.0	.0	.5	6.0	2.5	S
SSW	10	2.7	2.2	1.6	2.2	2.2	4.4	15.4	6.8	SSW
SW	11	1.1	1.6	4.4	10.4	3.3	.0	20.9	6.0	SW
WSW	12	.0	2.2	1.1	.5	.0	.0	3.8	3.6	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.5	.5	.0	.0	.0	.0	1.1	1.8	WNW
NW	15	1.6	.5	.5	2.2	1.1	.0	6.0	5.6	NW
NNW	16	1.1	1.6	.0	.0	.0	.0	2.7	1.7	NNW
CALM		1.1						1.1		
TOTAL		34.1	22.5	14.3	17.0	7.1	4.9	100.0	4.0	

82.7% 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

2 METER HEIGHT - Late Mid-Day

4/ 1/1996 - 4/30/1996
1000 - 1600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.5	1.5	.0	.0	.0	2.0	3.8	N
NNE	2	.5	.0	3.0	4.4	.0	.0	7.9	5.4	NNE
NE	3	2.5	.5	1.5	1.5	1.0	.0	6.9	4.3	NE
ENE	4	1.0	1.0	.5	.5	.0	.0	3.0	3.0	ENE
E	5	.5	1.5	.5	.0	.0	.0	2.5	2.8	E
ESE	6	2.5	1.0	.0	.0	.0	.0	3.4	1.5	ESE
SE	7	3.0	3.0	.5	.0	.0	.0	6.4	2.0	SE
SSE	8	3.0	.5	.0	.0	.0	.0	3.4	1.4	SSE
S	9	1.5	2.0	.5	.0	.5	.0	4.4	3.1	S
SSW	10	3.0	4.9	3.0	2.5	3.4	2.0	18.7	5.6	SSW
SW	11	2.0	2.5	3.0	11.8	2.0	.5	21.7	6.0	SW
WSW	12	1.0	.0	1.5	2.0	.0	.0	4.4	4.3	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	1.5	.5	1.5	.0	.0	3.4	4.8	WNW
NW	15	.5	.5	2.0	3.9	.0	.0	6.9	5.1	NW
NNW	16	.0	2.5	2.0	.5	.0	.0	4.9	3.6	NNW
CALM		.0						.0		
TOTAL		20.7	21.7	19.7	28.6	6.9	2.5	100.0	4.6	

96.8% 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

5/ 1/1996 - 5/31/1996
1000 - 1600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.4	.5	.5	.9	.9	.0	4.1	5.0	N
NNE	2	.0	.9	.5	.5	.9	.0	2.8	5.7	NNE
NE	3	.5	.0	.0	.5	.0	.0	.9	3.7	NE
ENE	4	1.4	.9	.0	.5	.0	.0	2.8	2.5	ENE
E	5	1.4	1.4	.0	.0	.0	.0	2.8	2.0	E
ESE	6	1.4	1.8	.0	.0	.0	.0	3.2	2.0	ESE
SE	7	1.8	1.4	.0	.0	.0	.0	3.2	1.8	SE
SSE	8	.9	.9	.0	.0	.0	.0	1.8	1.6	SSE
S	9	.9	.5	.0	.0	.0	.0	1.4	1.9	S
SSW	10	1.8	4.1	6.5	4.6	4.1	3.7	24.9	6.3	SSW
SW	11	.0	4.6	11.1	21.2	1.4	.5	38.7	5.6	SW
WSW	12	.9	2.3	2.8	2.3	.0	.0	8.3	4.0	WSW
W	13	.9	.0	.9	.5	.0	.0	2.3	3.6	W
WNW	14	.0	.0	.9	.0	.0	.0	.9	4.5	WNW
NW	15	.0	.9	.0	.0	.0	.0	.9	2.1	NW
NNW	16	.5	.0	.0	.0	.5	.0	.9	6.0	NNW
CALM		.0						.0		
TOTAL		13.8	20.3	23.0	30.9	7.8	4.1	100.0	5.0	

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

6/ 1/1996 - 6/30/1996
1000 - 1600 (PST)

		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	1.9	N
NNE	2	.5	.5	.0	.0	.0	.0	1.0	1.7	NNE
NE	3	.5	1.0	.0	.0	.0	.0	1.4	1.6	NE
ENE	4	1.4	.0	.0	.0	.0	.0	1.4	1.6	ENE
E	5	1.9	1.9	.0	.0	.0	.0	3.8	1.9	E
ESE	6	1.0	1.9	.0	.0	.0	.0	2.9	2.1	ESE
SE	7	1.9	1.4	.0	.0	.0	.0	3.3	1.7	SE
SSE	8	.5	3.3	.0	.0	.0	.0	3.8	2.3	SSE
S	9	1.0	1.4	1.0	.5	.5	.0	4.3	3.8	S
SSW	10	1.4	2.4	4.3	9.0	8.6	.0	25.7	6.8	SSW
SW	11	1.0	2.4	11.4	18.6	7.1	.5	41.0	6.3	SW
WSW	12	.0	1.0	1.4	1.4	.0	.0	3.8	4.3	WSW
W	13	1.0	2.9	.5	.0	.0	.0	4.3	2.3	W
WNW	14	.0	1.0	.0	.0	.0	.0	1.0	2.3	WNW
NW	15	.5	.0	.0	.0	.0	.0	.5	1.8	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.5						.5		
TOTAL		13.3	21.9	18.6	29.5	16.2	.5	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 7/ 1/1996 - 7/31/1996
1000 - 1600 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.5	.0	.0	.5	.5	.0	1.4	5.5	N
NNE	2	.0	.5	.0	.5	.0	.0	.9	4.7	NNE
NE	3	.5	.0	.0	.0	.0	.0	.5	.8	NE
ENE	4	.0	.5	.0	.5	.0	.0	.9	3.9	ENE
E	5	.5	.0	.5	.0	.0	.0	.9	3.4	E
ESE	6	.9	.0	.5	.0	.0	.0	1.4	2.4	ESE
SE	7	1.8	1.4	1.4	.0	.0	.0	4.6	2.5	SE
SSE	8	1.4	.9	.5	.5	.0	.0	3.2	2.8	SSE
S	9	1.4	1.4	1.8	.0	.5	.0	5.1	3.5	S
SSW	10	2.8	2.3	6.9	6.0	2.3	.0	20.3	5.1	SSW
SW	11	.5	4.1	21.2	19.4	2.8	.0	47.9	5.5	SW
WSW	12	1.4	1.4	6.5	.0	.0	.0	9.2	3.7	WSW
W	13	.0	.0	.9	.0	.0	.0	.9	4.3	W
WNW	14	.0	.0	.9	.0	.0	.0	.9	4.6	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.5	.0	.5	.9	.0	.0	1.8	5.1	NNW
CALM		.0						.0		
TOTAL		12.0	12.4	41.5	28.1	6.0	.0	100.0	4.8	

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/ 1/1996 - 8/31/1996
1000 - 1600 (PST)

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	1.4	.5	.0	.0	.5	.0	2.4	3.3	N
NNE	2	.0	.9	.0	.0	.0	.0	.9	2.1	NNE
NE	3	.5	1.4	.0	.5	.0	.0	2.4	2.7	NE
ENE	4	2.4	.0	.0	.0	.0	.0	2.4	1.0	ENE
E	5	2.4	2.4	.5	.0	.0	.0	5.2	2.0	E
ESE	6	2.8	1.9	.0	.0	.0	.0	4.7	1.7	ESE
SE	7	1.9	.5	.0	.0	.0	.0	2.4	1.5	SE
SSE	8	1.4	.5	.5	1.9	.0	.0	4.3	4.3	SSE
S	9	2.4	2.4	.9	.0	.5	.0	6.2	3.0	S
SSW	10	1.9	3.3	3.8	10.9	4.3	.0	24.2	5.9	SSW
SW	11	1.9	7.1	7.6	9.0	8.1	.0	33.6	5.8	SW
WSW	12	.5	2.4	1.9	.0	.0	.0	4.7	3.0	WSW
W	13	.0	.5	.9	.0	.0	.0	1.4	3.3	W
WNW	14	1.4	.0	.0	.0	.0	.0	1.4	1.1	WNW
NW	15	.9	1.4	.0	.0	.0	.0	2.4	2.0	NW
NNW	16	.9	.5	.0	.0	.0	.0	1.4	1.7	NNW
CALM		.0						.0		
TOTAL		22.7	25.6	16.1	22.3	13.3	.0	100.0	4.4	

98.4% 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

9/ 1/1996 - 9/30/1996
1000 - 1600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.5	.0	.0	.0	.0	.0	.5	1.2	N
NNE	2	.5	1.1	.0	.0	.0	.0	1.6	1.7	NNE
NE	3	1.6	.5	.0	.0	.0	.0	2.1	1.3	NE
ENE	4	2.6	1.6	.0	.0	.0	.0	4.2	1.7	ENE
E	5	1.1	2.6	.5	.0	.0	.0	4.2	2.5	E
ESE	6	.0	1.6	.0	.0	.0	.0	1.6	1.8	ESE
SE	7	1.1	1.6	.5	.0	.0	.0	3.2	2.3	SE
SSE	8	.5	.5	.0	.0	.0	.0	1.1	1.6	SSE
S	9	1.6	5.3	.0	.0	.0	.0	6.9	2.1	S
SSW	10	3.7	5.3	2.6	4.8	2.6	.5	19.6	4.9	SSW
SW	11	2.1	1.6	16.4	17.5	3.2	.5	41.3	5.6	SW
WSW	12	1.6	.5	1.6	.5	.0	.0	4.2	2.9	WSW
W	13	1.1	1.1	.0	.0	.0	.0	2.1	1.5	W
WNW	14	.0	.5	.0	1.1	.0	.0	1.6	5.5	WNW
NW	15	.5	.0	1.1	1.1	.0	.0	2.6	4.3	NW
NNW	16	.5	1.1	.0	.0	.0	.0	1.6	2.2	NNW
CALM		1.6						1.6		
TOTAL		20.6	24.9	22.8	24.9	5.8	1.1	100.0	4.2	

90.4% 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

10/ 1/1996 - 10/31/1996
1000 - 1600 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.2	1.1	.5	.0	1.1	.0	4.9	3.4	N
NNE	2	2.7	2.2	1.1	2.2	1.6	.0	9.9	4.3	NNE
NE	3	3.8	1.1	1.1	1.6	.0	.0	7.7	2.8	NE
ENE	4	6.0	2.7	.5	2.2	.0	.0	11.5	2.4	ENE
E	5	3.3	1.6	.0	.0	.0	.0	4.9	1.4	E
ESE	6	2.7	2.7	.0	.0	.0	.0	5.5	1.7	ESE
SE	7	.5	.0	.0	.0	.0	.0	.5	.8	SE
SSE	8	3.8	.0	.0	.0	.0	.0	3.8	1.2	SSE
S	9	4.9	.5	.0	.0	.0	.0	5.5	1.1	S
SSW	10	1.6	1.1	.0	4.9	.5	.0	8.2	5.3	SSW
SW	11	2.2	1.6	4.9	7.7	.5	.0	17.0	5.2	SW
WSW	12	3.3	1.6	1.6	.5	.0	.0	7.1	2.6	WSW
W	13	2.2	.0	.5	.0	.0	.0	2.7	1.7	W
WNW	14	.5	.5	.0	.0	.0	.0	1.1	1.8	WNW
NW	15	1.1	.5	1.6	.0	.0	.0	3.3	3.0	NW
NNW	16	1.6	.5	.5	.0	.0	.0	2.7	1.9	NNW
CALM		3.3						3.3		
TOTAL		46.2	18.1	12.6	19.2	3.8	.0	100.0	3.1	

84.1% 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

11/ 1/1996 - 11/30/1996
1000 - 1600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.6	.0	1.9	3.2	1.3	.0	9.1	4.7	N
NNE	2	2.6	.6	3.9	5.2	1.3	.0	13.6	4.6	NNE
NE	3	3.9	2.6	1.9	.6	.0	.0	9.1	2.3	NE
ENE	4	6.5	1.9	1.3	.0	.0	.0	9.7	1.7	ENE
E	5	5.8	.6	1.3	.0	.0	.0	7.8	1.7	E
ESE	6	2.6	.6	.0	.0	.0	.0	3.2	1.3	ESE
SE	7	5.8	.6	.0	.0	.0	.0	6.5	1.0	SE
SSE	8	3.9	.6	.0	.0	.0	.0	4.5	1.2	SSE
S	9	2.6	.0	.0	.0	.0	.0	2.6	.9	S
SSW	10	3.9	1.9	.0	.0	.0	.0	5.8	1.5	SSW
SW	11	2.6	.0	1.3	1.9	1.9	.0	7.8	5.3	SW
WSW	12	1.9	.6	.0	.0	.0	.0	2.6	1.6	WSW
W	13	1.3	.0	.0	.0	.0	.0	1.3	.6	W
WNW	14	3.2	.0	.0	.0	.0	.0	3.2	1.0	WNW
NW	15	1.3	.0	.0	.0	.0	.0	1.3	.9	NW
NNW	16	1.3	.0	.0	.0	.6	.0	1.9	3.5	NNW
CALM		9.7						9.7		
TOTAL		61.7	10.4	11.7	11.0	5.2	.0	100.0	2.4	

75.1% DATA RECOVERED
28.5% 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 - Late Mid-Day

12/ 1/1996 - 12/31/1996
1000 - 1600 (PST)

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	6.3	.8	.0	.0	.0	.0	7.1	1.2	NNE
NE	3	5.6	.0	.0	.0	.0	.0	5.6	1.1	NE
ENE	4	12.7	.0	.0	.0	.0	.0	12.7	.9	ENE
E	5	7.9	.0	.0	.0	.0	.0	7.9	1.0	E
ESE	6	4.0	.0	.0	.0	.0	.0	4.0	1.0	ESE
SE	7	4.8	.8	.0	.0	.0	.0	5.6	1.1	SE
SSE	8	6.3	1.6	.0	.0	.0	.0	7.9	1.3	SSE
S	9	3.2	.0	.0	.0	.0	.0	3.2	.8	S
SSW	10	4.0	1.6	2.4	7.9	1.6	4.0	21.4	6.5	SSW
SW	11	2.4	1.6	2.4	.8	.8	.0	7.9	3.8	SW
WSW	12	.0	.8	.0	.0	.0	.0	.8	3.2	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.8	.0	.0	.0	.0	.0	.8	.5	WNW
NW	15	3.2	.0	.0	.0	.0	.0	3.2	.9	NW
NNW	16	4.0	.0	.0	.0	.0	.0	4.0	.8	NNW
CALM		5.6						5.6		
TOTAL		73.0	7.1	4.8	8.7	2.4	4.0	100.0	2.4	

58.7% 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 - Evening Transition 1/ 1/1996 - 1/31/1996
1600 - 2000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.3	.0	2.6	.0	.0	.0	7.0	2.0	N
NNE	2	6.1	.0	2.6	1.7	.0	.0	10.4	2.7	NNE
NE	3	4.3	.9	1.7	.9	.0	.0	7.8	2.6	NE
ENE	4	3.5	.0	.9	.0	.0	.0	4.3	1.7	ENE
E	5	2.6	.0	.0	.0	.0	.0	2.6	1.5	E
ESE	6	.9	.9	.0	.0	.0	.0	1.7	1.4	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	.9	.0	.0	.0	.0	.9	2.0	SSE
S	9	2.6	2.6	.0	.0	.0	.0	5.2	1.6	S
SSW	10	4.3	1.7	.0	2.6	.9	.0	9.6	3.8	SSW
SW	11	7.0	4.3	.0	.0	1.7	.0	13.0	2.7	SW
WSW	12	4.3	.0	.0	.0	.0	.0	4.3	1.1	WSW
W	13	8.7	.0	.0	.0	.0	.0	8.7	1.1	W
WNW	14	7.0	.9	.0	.0	.0	.0	7.8	1.3	WNW
NW	15	4.3	.9	.0	.0	.0	.0	5.2	1.5	NW
NNW	16	2.6	2.6	3.5	.0	.0	.0	8.7	2.9	NNW
CALM		2.6						2.6		
TOTAL		65.2	15.7	11.3	5.2	2.6	.0	100.0	2.2	

74.2% 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 2/ 1/1996 - 2/29/1996
1600 - 2000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.6	.0	.0	.0	.0	.0	5.6	1.3	N
NNE	2	3.2	.8	.0	.0	.0	.0	4.0	1.2	NNE
NE	3	3.2	.0	.0	.0	.0	.0	3.2	1.1	NE
ENE	4	1.6	.0	1.6	.0	.0	.0	3.2	2.7	ENE
E	5	4.0	.8	.0	.0	.0	.0	4.8	1.3	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	2.4	.0	.0	.0	.0	.0	2.4	.9	SE
SSE	8	3.2	1.6	.0	.0	.0	.0	4.8	1.5	SSE
S	9	4.8	1.6	.8	.0	.0	.0	7.2	1.8	S
SSW	10	5.6	8.8	4.0	.0	2.4	1.6	22.4	3.8	SSW
SW	11	4.0	2.4	6.4	.8	.0	.0	13.6	3.2	SW
WSW	12	7.2	.0	3.2	.0	.0	.0	10.4	2.1	WSW
W	13	3.2	.0	.0	.0	.0	.0	3.2	1.2	W
WNW	14	4.8	.0	.8	.0	.0	.0	5.6	1.8	WNW
NW	15	3.2	2.4	.0	.0	.0	.0	5.6	1.7	NW
NNW	16	3.2	.0	.0	.0	.0	.0	3.2	1.1	NNW
CALM		.8						.8		
TOTAL		60.0	18.4	16.8	.8	2.4	1.6	100.0	2.3	

84.9% 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 - Evening Transition 3/ 1/1996 - 3/31/1996
1600 - 2000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.1	3.8	3.8	.8	.8	.8	13.1	3.9	N
NNE	2	3.1	2.3	2.3	.8	.8	1.5	10.8	4.6	NNE
NE	3	2.3	.0	.0	.0	.0	.0	2.3	1.2	NE
ENE	4	.8	.0	.0	.0	.0	.0	.8	1.1	ENE
E	5	.8	1.5	.0	.0	.0	.0	2.3	2.1	E
ESE	6	.8	.0	.0	.0	.0	.0	.8	1.3	ESE
SE	7	3.8	.0	.0	.0	.0	.0	3.8	1.2	SE
SSE	8	.8	.0	.0	.0	.0	.0	.8	1.4	SSE
S	9	.8	.8	.0	.0	.0	.0	1.5	1.6	S
SSW	10	3.8	6.2	1.5	.8	1.5	4.6	18.5	5.3	SSW
SW	11	2.3	2.3	3.1	7.7	.0	.0	15.4	4.8	SW
WSW	12	2.3	4.6	.8	.8	.0	.0	8.5	2.7	WSW
W	13	2.3	1.5	.8	.8	.0	.0	5.4	2.9	W
WNW	14	2.3	.0	.0	.0	.0	.0	2.3	1.3	WNW
NW	15	1.5	3.8	.0	1.5	.0	.0	6.9	3.0	NW
NNW	16	1.5	1.5	.8	1.5	.0	.0	5.4	3.6	NNW
CALM		1.5						1.5		
TOTAL		33.8	28.5	13.1	14.6	3.1	6.9	100.0	3.7	

82.7% 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

2 METER HEIGHT - Evening Transition 4/ 1/1996 - 4/30/1996
1600 - 2000 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.4	.0	4.8	1.4	.0	.0	7.6	4.0	N
NNE	2	.7	.7	2.8	.7	.0	.0	4.8	4.0	NNE
NE	3	2.8	.7	4.8	.7	.0	.0	9.0	3.5	NE
ENE	4	.7	.0	.7	.0	.0	.0	1.4	3.3	ENE
E	5	1.4	.0	.0	.0	.0	.0	1.4	.9	E
ESE	6	.7	.0	.0	.0	.0	.0	.7	1.6	ESE
SE	7	1.4	2.1	.0	.0	.0	.0	3.4	2.0	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	2.1	.7	.7	.0	.0	.0	3.4	1.9	S
SSW	10	3.4	.7	.7	4.8	4.1	2.8	16.6	7.0	SSW
SW	11	4.1	6.2	8.3	4.8	.0	.7	24.1	4.1	SW
WSW	12	1.4	2.1	.7	1.4	.0	.0	5.5	3.0	WSW
W	13	2.1	.0	.7	.0	.0	.0	2.8	1.9	W
WNW	14	1.4	.7	2.1	.7	.0	.0	4.8	3.2	WNW
NW	15	.0	3.4	3.4	2.8	.0	.0	9.7	3.9	NW
NNW	16	.7	.7	.7	2.8	.0	.0	4.8	5.1	NNW
CALM		.0						.0		
TOTAL		24.1	17.9	30.3	20.0	4.1	3.4	100.0	4.2	

96.8% 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 5/ 1/1996 - 5/31/1996
1600 - 2000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.3	.0	1.3	1.9	.6	.0	5.2	5.2	N
NNE	2	.6	.6	.0	.0	.0	.0	1.3	1.8	NNE
NE	3	1.3	.0	.0	.0	.0	.0	1.3	1.4	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	.6	1.3	.0	.0	.0	.0	1.9	2.0	ESE
SE	7	.6	1.3	.0	.0	.0	.0	1.9	2.1	SE
SSE	8	.0	1.3	.6	.0	.0	.0	1.9	3.0	SSE
S	9	.6	.0	1.3	.6	1.3	.0	3.9	5.5	S
SSW	10	2.6	3.2	3.9	5.2	1.9	1.9	18.7	5.8	SSW
SW	11	1.3	7.7	13.5	11.0	1.3	.0	34.8	4.7	SW
WSW	12	1.3	3.2	6.5	.6	.0	.0	11.6	3.6	WSW
W	13	.6	1.3	.6	.6	.0	.0	3.2	3.2	W
WNW	14	3.9	.6	2.6	.0	.0	.0	7.1	2.5	WNW
NW	15	.0	1.3	.6	.6	.6	.0	3.2	4.8	NW
NNW	16	.0	.0	.6	1.3	.6	.0	2.6	7.6	NNW
CALM		.0						.0		
TOTAL		16.1	21.9	31.6	21.9	6.5	1.9	100.0	4.4	

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 6/ 1/1996 - 6/30/1996
1600 - 2000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.7	.0	.0	.0	.7	4.9	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	.7	.0	.0	.0	.0	.0	.7	1.1	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.7	.0	.0	.0	.0	.0	.7	1.0	E
ESE	6	.7	.7	.0	.0	.0	.0	1.3	1.8	ESE
SE	7	2.7	1.3	.7	.0	.0	.0	4.7	1.9	SE
SSE	8	.0	.7	.0	.0	.0	.0	.7	2.5	SSE
S	9	1.3	1.3	.0	.0	.7	.0	3.3	3.5	S
SSW	10	3.3	1.3	6.0	7.3	2.0	.0	20.0	5.2	SSW
SW	11	6.0	8.7	14.0	21.3	2.7	.0	52.7	4.9	SW
WSW	12	.7	2.7	2.0	1.3	.0	.0	6.7	3.2	WSW
W	13	2.7	.0	.0	.0	.0	.0	2.7	1.4	W
WNW	14	1.3	.0	.0	.0	.0	.0	1.3	.9	WNW
NW	15	3.3	.0	.0	.0	.0	.0	3.3	1.2	NW
NNW	16	.7	.0	.0	.0	.0	.0	.7	1.3	NNW
CALM		.7						.7		
TOTAL		24.7	16.7	23.3	30.0	5.3	.0	100.0	4.2	

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/ 1/1996 - 7/31/1996
1600 - 2000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.6	1.3	.0	.0	1.9	5.4	N
NNE	2	1.3	.6	.6	1.3	.0	.0	3.9	4.2	NNE
NE	3	1.9	.6	.6	.0	.0	.0	3.2	2.1	NE
ENE	4	.0	.6	.0	.6	.0	.0	1.3	4.2	ENE
E	5	.0	.0	.6	.0	.0	.0	.6	3.7	E
ESE	6	1.3	.6	.0	.0	.0	.0	1.9	1.7	ESE
SE	7	.0	1.3	1.9	.6	.0	.0	3.9	4.2	SE
SSE	8	.6	1.3	1.3	.0	.0	.0	3.2	2.9	SSE
S	9	.6	.0	.0	.0	.0	.0	.6	1.8	S
SSW	10	5.2	2.6	2.6	4.5	.6	.0	15.5	4.0	SSW
SW	11	2.6	8.4	16.8	14.2	.6	.0	42.6	4.7	SW
WSW	12	3.2	.6	8.4	.0	.0	.0	12.3	3.3	WSW
W	13	.0	.0	.6	.0	.0	.0	.6	4.3	W
WNW	14	.6	.6	.6	.0	.0	.0	1.9	2.8	WNW
NW	15	.6	.6	.6	.6	.0	.0	2.6	4.0	NW
NNW	16	1.3	1.3	.6	.6	.0	.0	3.9	3.3	NNW
CALM		.0						.0		
TOTAL		19.4	19.4	36.1	23.9	1.3	.0	100.0	4.0	

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/ 1/1996 - 8/31/1996
1600 - 2000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.6	.0	.6	.0	.0	.0	1.3	3.0	N
NNE	2	2.6	1.3	.6	.0	.0	.0	4.5	2.1	NNE
NE	3	.6	.0	.6	1.3	.0	.0	2.6	4.4	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	1.3	.6	.0	.0	.0	1.9	3.3	E
ESE	6	.0	1.9	.0	.0	.0	.0	1.9	2.4	ESE
SE	7	1.3	.6	.6	.0	.0	.0	2.6	2.4	SE
SSE	8	2.6	1.3	.0	.0	.0	.0	3.9	1.9	SSE
S	9	1.3	1.3	.0	.6	.6	.0	3.9	4.0	S
SSW	10	5.2	6.5	3.2	8.4	.0	.0	23.2	4.1	SSW
SW	11	1.9	15.5	11.6	11.0	.6	.0	40.6	4.2	SW
WSW	12	.6	2.6	1.9	.0	.0	.0	5.2	2.7	WSW
W	13	1.3	.6	.0	.0	.0	.0	1.9	1.4	W
WNW	14	.6	.0	1.3	.0	.0	.0	1.9	3.4	WNW
NW	15	1.3	.0	.6	.0	.0	.0	1.9	2.0	NW
NNW	16	1.9	.6	.0	.0	.0	.0	2.6	1.6	NNW
CALM		.0						.0		
TOTAL		21.9	33.5	21.9	21.3	1.3	.0	100.0	3.6	

98.4% 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 - Evening Transition 9/ 1/1996 - 9/30/1996
1600 - 2000 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.4	.7	.7	.0	.0	.0	5.9	1.5	N
NNE	2	.7	.7	.7	.0	.0	.0	2.2	2.6	NNE
NE	3	1.5	.0	.0	.0	.0	.0	1.5	1.1	NE
ENE	4	2.2	.0	.0	.0	.0	.0	2.2	1.0	ENE
E	5	2.2	.0	.0	.0	.0	.0	2.2	1.2	E
ESE	6	1.5	.7	.0	.0	.0	.0	2.2	1.4	ESE
SE	7	.0	.7	2.2	.0	.0	.0	3.0	3.4	SE
SSE	8	.7	2.2	.0	.0	.0	.0	3.0	2.2	SSE
S	9	3.0	1.5	.0	.0	.0	.0	4.4	1.5	S
SSW	10	3.7	3.0	4.4	5.2	.0	.0	16.3	4.3	SSW
SW	11	4.4	5.9	13.3	11.9	2.2	.0	37.8	4.7	SW
WSW	12	1.5	3.0	3.0	.0	.0	.0	7.4	2.7	WSW
W	13	2.2	1.5	.0	.0	.0	.0	3.7	1.5	W
WNW	14	2.2	.0	.0	.0	.0	.0	2.2	1.3	WNW
NW	15	1.5	.0	.7	.0	.0	.0	2.2	2.6	NW
NNW	16	3.0	.0	.7	.0	.0	.0	3.7	2.1	NNW
CALM		.0						.0		
TOTAL		34.8	20.0	25.9	17.0	2.2	.0	100.0	3.4	

90.4% 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 10/ 1/1996 - 10/31/1996
1600 - 2000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.8	.8	.0	3.1	.8	.0	8.5	4.2	N
NNE	2	3.1	.0	1.5	3.1	.0	.0	7.7	3.9	NNE
NE	3	3.1	.0	1.5	.0	.0	.0	4.6	2.3	NE
ENE	4	1.5	1.5	.8	1.5	.0	.0	5.4	3.3	ENE
E	5	3.1	.0	.0	.0	.0	.0	3.1	1.3	E
ESE	6	3.1	.0	.0	.0	.0	.0	3.1	1.2	ESE
SE	7	3.1	.8	.0	.0	.0	.0	3.8	1.6	SE
SSE	8	2.3	.8	.0	.0	.0	.0	3.1	1.2	SSE
S	9	6.2	.8	.0	.0	.0	.0	6.9	1.2	S
SSW	10	3.8	2.3	.8	1.5	.0	.0	8.5	2.8	SSW
SW	11	2.3	3.8	3.1	2.3	.0	.0	11.5	3.6	SW
WSW	12	6.2	3.1	1.5	.8	.0	.0	11.5	2.2	WSW
W	13	1.5	.8	.0	.0	.0	.0	2.3	1.3	W
WNW	14	3.1	1.5	.0	.0	.0	.0	4.6	1.7	WNW
NW	15	3.8	4.6	.0	.0	.0	.0	8.5	1.9	NW
NNW	16	5.4	.0	.0	.8	.0	.0	6.2	2.0	NNW
CALM		.8						.8		
TOTAL		56.2	20.8	9.2	13.1	.8	.0	100.0	2.5	

84.1% 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/ 1/1996 - 11/30/1996
1600 - 2000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.3	2.6	4.4	1.8	.0	.0	14.0	3.2	N
NNE	2	.0	2.6	7.9	.9	.0	.0	11.4	4.0	NNE
NE	3	1.8	1.8	1.8	.0	.0	.0	5.3	2.6	NE
ENE	4	.9	.9	.0	.0	.0	.0	1.8	1.7	ENE
E	5	2.6	.0	.0	.0	.0	.0	2.6	.9	E
ESE	6	.9	.9	.0	.0	.0	.0	1.8	1.7	ESE
SE	7	2.6	.0	.0	.0	.0	.0	2.6	.9	SE
SSE	8	.9	.0	.0	.0	.0	.0	.9	1.4	SSE
S	9	3.5	.0	.0	.0	.0	.0	3.5	1.2	S
SSW	10	9.6	3.5	.9	.0	.0	.0	14.0	1.6	SSW
SW	11	5.3	4.4	.9	.0	.0	.0	10.5	2.1	SW
WSW	12	6.1	1.8	.0	.0	.0	.0	7.9	1.4	WSW
W	13	5.3	.0	.0	.0	.0	.0	5.3	1.3	W
WNW	14	7.9	.9	.0	.0	.0	.0	8.8	1.2	WNW
NW	15	4.4	.9	.0	.0	.0	.0	5.3	1.6	NW
NNW	16	3.5	.0	.0	.0	.0	.0	3.5	1.1	NNW
CALM		.9						.9		
TOTAL		61.4	20.2	15.8	2.6	.0	.0	100.0	2.1	

75.1% 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

2 METER HEIGHT - Evening Transition 12/ 1/1996 - 12/31/1996
1600 - 2000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.6	.0	.0	.0	.0	.0	5.6	1.2	N
NNE	2	3.3	.0	.0	.0	.0	.0	3.3	1.1	NNE
NE	3	2.2	.0	.0	.0	.0	.0	2.2	1.3	NE
ENE	4	3.3	.0	.0	.0	.0	.0	3.3	1.0	ENE
E	5	1.1	.0	.0	.0	.0	.0	1.1	1.0	E
ESE	6	1.1	1.1	.0	.0	.0	.0	2.2	1.2	ESE
SE	7	3.3	.0	.0	.0	.0	.0	3.3	1.3	SE
SSE	8	5.6	1.1	.0	.0	.0	.0	6.7	1.2	SSE
S	9	5.6	.0	.0	.0	.0	.0	5.6	1.0	S
SSW	10	2.2	2.2	1.1	8.9	3.3	.0	17.8	6.0	SSW
SW	11	6.7	4.4	2.2	1.1	.0	.0	14.4	2.3	SW
WSW	12	4.4	2.2	.0	1.1	.0	.0	7.8	2.3	WSW
W	13	2.2	.0	.0	.0	.0	.0	2.2	1.0	W
WNW	14	3.3	2.2	.0	.0	.0	.0	5.6	1.7	WNW
NW	15	7.8	2.2	.0	.0	.0	.0	10.0	1.4	NW
NNW	16	5.6	3.3	.0	.0	.0	.0	8.9	1.4	NNW
CALM		.0						.0		
TOTAL		63.3	18.9	3.3	11.1	3.3	.0	100.0	2.3	

58.7% 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 - Night Time

1/ 1/1996 - 1/31/1996
2000 - 600 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.2	1.2	.4	.0	.0	.0	4.7	1.7	N
NNE	2	4.3	.4	1.2	.0	.0	.0	5.9	1.8	NNE
NE	3	3.6	.0	1.6	.4	.0	.0	5.5	2.4	NE
ENE	4	4.7	.8	.0	.0	.0	.0	5.5	1.2	ENE
E	5	2.8	.0	.0	.0	.0	.0	2.8	1.1	E
ESE	6	3.2	.0	.0	.0	.0	.0	3.2	1.0	ESE
SE	7	2.4	.0	.0	.0	.0	.0	2.4	1.0	SE
SSE	8	4.0	.0	.0	.0	.0	.0	4.0	1.0	SSE
S	9	3.2	.0	.0	.0	.0	.0	3.2	.9	S
SSW	10	10.7	.4	.0	.0	.0	.0	11.1	1.1	SSW
SW	11	15.8	1.2	.0	.0	1.2	.0	18.2	1.7	SW
WSW	12	6.3	1.2	.0	.8	.0	.0	8.3	1.8	WSW
W	13	7.5	.0	.0	.0	.0	.0	7.5	1.1	W
WNW	14	5.9	.0	.4	.0	.0	.0	6.3	1.2	WNW
NW	15	4.3	1.6	.4	.8	.4	.0	7.5	2.7	NW
NNW	16	3.2	.0	.4	.0	.0	.0	3.6	1.3	NNW
CALM		.4						.4		
TOTAL		85.4	6.7	4.3	2.0	1.6	.0	100.0	1.5	

74.2% 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

2/ 1/1996 - 2/29/1996
2000 - 600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	7.1	.4	.0	.0	.0	.0	7.5	1.1	N
NNE	2	5.2	.4	.0	.0	.0	.0	5.6	1.1	NNE
NE	3	6.7	.0	.0	.0	.0	.0	6.7	1.0	NE
ENE	4	2.2	.0	.0	.0	.0	.0	2.2	1.0	ENE
E	5	1.9	.0	.0	.0	.0	.0	1.9	.8	E
ESE	6	2.6	.0	.0	.0	.0	.0	2.6	.8	ESE
SE	7	.7	.0	.0	.0	.0	.0	.7	1.0	SE
SSE	8	4.1	.0	.0	.0	.0	.0	4.1	1.0	SSE
S	9	5.2	.7	.0	.4	.0	.0	6.3	1.3	S
SSW	10	9.0	2.2	.4	.0	1.5	1.9	14.9	3.4	SSW
SW	11	12.3	1.5	.4	.0	.7	.0	14.9	1.8	SW
WSW	12	8.6	.4	.0	.0	.0	.0	9.0	1.1	WSW
W	13	4.5	.0	.0	.0	.0	.0	4.5	.9	W
WNW	14	6.3	.4	.0	.0	.0	.0	6.7	1.1	WNW
NW	15	4.5	.4	.0	.0	.0	.0	4.9	1.0	NW
NNW	16	4.5	.4	.0	.0	.0	.0	4.9	1.0	NNW
CALM		2.6						2.6		
TOTAL		88.1	6.7	.7	.4	2.2	1.9	100.0	1.5	

84.9% DATA RECOVERED
45.3% 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 - Night Time

3/ 1/1996 - 3/31/1996
2000 - 600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.4	.7	1.4	1.4	.7	.0	9.7	3.1	N
NNE	2	6.5	.4	2.2	1.8	.4	.0	11.1	2.8	NNE
NE	3	5.4	1.4	1.1	.0	.0	.0	7.9	1.8	NE
ENE	4	2.9	.7	.0	.0	.0	.0	3.6	1.4	ENE
E	5	2.2	.4	.0	.0	.0	.0	2.5	1.3	E
ESE	6	1.4	.0	.0	.0	.0	.0	1.4	.9	ESE
SE	7	2.2	.0	.0	.0	.0	.0	2.2	1.1	SE
SSE	8	2.9	.0	.0	.0	.0	.0	2.9	.9	SSE
S	9	1.4	.4	.0	.0	.0	.0	1.8	1.2	S
SSW	10	7.2	.7	.0	.0	.0	.0	7.9	1.2	SSW
SW	11	13.3	.4	.0	.4	.0	.0	14.0	1.2	SW
WSW	12	7.5	.0	.4	.0	.0	.0	7.9	1.0	WSW
W	13	7.2	.7	.0	.0	.0	.0	7.9	1.1	W
WNW	14	3.9	.0	.0	.4	.0	.0	4.3	1.6	WNW
NW	15	5.0	1.1	.4	.0	.0	.0	6.5	1.5	NW
NNW	16	5.0	1.1	1.4	.7	.0	.0	8.2	2.2	NNW
CALM		.4						.4		
TOTAL		79.6	7.9	6.8	4.7	1.1	.0	100.0	1.7	

82.7% DATA RECOVERED
45.4% 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 - Night Time

4/ 1/1996 - 4/30/1996
2000 - 600 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.4	1.6	3.1	.6	.0	.0	8.8	3.0	N
NNE	2	1.3	1.3	3.4	1.9	.0	.0	7.8	4.0	NNE
NE	3	3.4	1.6	2.8	.0	.0	.0	7.8	2.6	NE
ENE	4	2.2	.6	.6	.0	.0	.0	3.4	2.0	ENE
E	5	.9	.0	.0	.0	.0	.0	.9	.9	E
ESE	6	1.3	.0	.0	.0	.0	.0	1.3	1.1	ESE
SE	7	.6	.0	.0	.0	.0	.0	.6	1.3	SE
SSE	8	1.9	.0	.0	.0	.0	.0	1.9	1.1	SSE
S	9	3.8	.9	.0	.0	.0	.0	4.7	1.3	S
SSW	10	11.9	.3	.6	2.2	3.8	1.9	20.6	4.4	SSW
SW	11	10.6	1.6	.9	1.3	.0	.0	14.4	2.0	SW
WSW	12	5.0	.6	.9	.6	.0	.0	7.2	2.0	WSW
W	13	4.1	.3	.3	.0	.0	.0	4.7	1.4	W
WNW	14	3.8	.3	.3	.0	.0	.0	4.4	1.4	WNW
NW	15	4.1	1.9	.0	.0	.0	.0	5.9	1.5	NW
NNW	16	3.1	.9	.3	.0	.3	.0	4.7	2.2	NNW
CALM		.9						.9		
TOTAL		62.2	11.9	13.4	6.6	4.1	1.9	100.0	2.6	

96.8% 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

5/ 1/1996 - 5/31/1996
2000 - 600 (PST)

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	.9	.6	1.8	.3	.0	6.7	3.5	N
NNE	2	5.0	1.2	1.8	1.2	.0	.0	9.1	2.8	NNE
NE	3	5.0	.3	.3	.3	.0	.0	5.9	1.8	NE
ENE	4	5.0	1.2	.0	.0	.0	.0	6.2	1.4	ENE
E	5	3.8	.0	.6	.0	.0	.0	4.4	1.6	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	1.2	.0	.0	.0	.0	.0	1.2	1.0	SE
SSE	8	1.5	.0	.0	.0	.0	.0	1.5	.8	SSE
S	9	2.3	.9	.0	.0	.3	.0	3.5	2.1	S
SSW	10	4.4	.6	.6	.0	1.8	.0	7.3	3.3	SSW
SW	11	10.3	1.8	1.5	2.3	.3	.0	16.1	2.5	SW
WSW	12	7.6	1.8	1.5	1.2	.0	.0	12.0	2.1	WSW
W	13	5.9	1.2	.6	.3	.0	.0	7.9	1.6	W
WNW	14	4.4	.9	.9	.0	.0	.0	6.2	1.8	WNW
NW	15	3.2	1.2	.6	.3	.0	.0	5.3	2.0	NW
NNW	16	3.8	.6	1.2	.3	.0	.0	5.9	2.1	NNW
CALM		.9						.9		
TOTAL		67.4	12.3	10.0	7.6	2.6	.0	100.0	2.2	

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

6/ 1/1996 - 6/30/1996
2000 - 600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.6	.0	.3	.0	.0	.0	3.9	1.4	N
NNE	2	6.7	1.2	.0	.0	.0	.0	7.9	1.2	NNE
NE	3	6.1	1.8	.0	.0	.0	.0	7.9	1.3	NE
ENE	4	3.6	.0	.0	.0	.0	.0	3.6	1.2	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	2.1	.0	.3	.0	.0	.0	2.4	1.4	SE
SSE	8	1.8	.0	.0	.0	.0	.0	1.8	.8	SSE
S	9	3.0	.6	.0	.0	.0	.0	3.6	1.1	S
SSW	10	7.9	1.8	1.5	1.5	.3	.0	13.0	2.5	SSW
SW	11	11.2	1.5	2.1	.3	.0	.0	15.2	1.7	SW
WSW	12	8.5	1.5	1.8	.0	.0	.0	11.8	1.7	WSW
W	13	7.9	1.5	.3	.0	.0	.0	9.7	1.3	W
WNW	14	5.8	.3	.0	.0	.0	.0	6.1	1.3	WNW
NW	15	3.3	.3	.0	.0	.0	.0	3.6	1.2	NW
NNW	16	3.3	.0	.0	.0	.0	.0	3.3	1.1	NNW
CALM		2.4						2.4		
TOTAL		80.6	10.9	6.4	1.8	.3	.0	100.0	1.5	

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/ 1/1996 - 7/31/1996
2000 - 600 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	5.0	.9	.3	.3	.0	.0	6.5	1.6	N
NNE	2	4.4	2.3	1.2	.0	.0	.0	7.9	1.9	NNE
NE	3	5.6	1.5	.9	.0	.0	.0	7.9	1.7	NE
ENE	4	4.4	1.5	.0	.0	.0	.0	5.9	1.5	ENE
E	5	2.3	.0	.0	.3	.3	.3	3.2	3.4	E
ESE	6	1.5	.3	.0	.0	.0	.0	1.8	1.0	ESE
SE	7	2.1	.9	.0	.0	.0	.0	2.9	1.6	SE
SSE	8	1.8	.6	.0	.0	.0	.0	2.3	1.2	SSE
S	9	2.9	.0	.0	.0	.0	.0	2.9	1.1	S
SSW	10	10.3	1.2	.3	.0	.0	.0	11.7	1.3	SSW
SW	11	10.3	1.8	.9	.0	.0	.0	12.9	1.3	SW
WSW	12	9.1	.6	.0	.0	.0	.0	9.7	1.2	WSW
W	13	5.6	.0	.3	.0	.0	.0	5.9	1.3	W
WNW	14	5.3	.0	.0	.0	.0	.0	5.3	1.0	WNW
NW	15	3.2	1.8	.0	.3	.0	.0	5.3	1.8	NW
NNW	16	4.1	1.2	.3	.0	.0	.0	5.6	1.7	NNW
CALM		2.3						2.3		
TOTAL		80.1	14.4	4.1	.9	.3	.3	100.0	1.5	

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/ 1/1996 - 8/31/1996
2000 - 600 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.6	.3	.0	.0	.0	.0	3.8	1.1	N
NNE	2	9.2	1.5	.0	.0	.0	.0	10.7	1.2	NNE
NE	3	6.2	.9	.0	.0	.0	.0	7.1	1.3	NE
ENE	4	3.8	.3	.0	.0	.0	.0	4.1	1.1	ENE
E	5	1.8	.9	.0	.0	.0	.0	2.7	1.7	E
ESE	6	2.1	.3	.0	.0	.0	.0	2.4	1.2	ESE
SE	7	2.1	.0	.0	.0	.0	.0	2.1	1.0	SE
SSE	8	3.8	.3	.0	.0	.0	.0	4.1	1.1	SSE
S	9	4.1	.3	.0	.0	.0	.0	4.4	1.2	S
SSW	10	8.3	1.2	.3	.0	.0	.0	9.8	1.3	SSW
SW	11	9.2	2.4	2.4	.6	.0	.0	14.5	1.9	SW
WSW	12	7.4	.3	.6	.0	.0	.0	8.3	1.2	WSW
W	13	5.3	.6	.3	.0	.0	.0	6.2	1.2	W
WNW	14	5.0	.6	.3	.0	.0	.0	5.9	1.3	WNW
NW	15	4.4	.6	.0	.0	.0	.0	5.0	1.2	NW
NNW	16	6.2	1.2	.0	.0	.0	.0	7.4	1.2	NNW
CALM		1.5						1.5		
TOTAL		84.0	11.5	3.8	.6	.0	.0	100.0	1.3	

98.4% 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

9/ 1/1996 - 9/30/1996
2000 - 600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.0	1.3	.3	.0	.0	.0	5.7	1.4	N
NNE	2	7.0	2.0	1.3	.0	.0	.0	10.3	1.7	NNE
NE	3	6.3	.3	.0	.0	.0	.0	6.7	1.1	NE
ENE	4	2.7	.7	.0	.0	.0	.0	3.3	1.3	ENE
E	5	2.7	.0	.0	.0	.0	.0	2.7	1.0	E
ESE	6	.7	.0	.0	.0	.0	.0	.7	.7	ESE
SE	7	2.7	.0	.7	.0	.0	.0	3.3	1.7	SE
SSE	8	1.7	.0	.0	.0	.0	.0	1.7	.8	SSE
S	9	4.0	.0	.0	.0	.0	.0	4.0	.9	S
SSW	10	5.7	.7	.3	1.3	.0	.0	8.0	2.3	SSW
SW	11	7.3	.3	1.3	.7	.0	.0	9.7	1.8	SW
WSW	12	11.0	1.7	.0	.3	.0	.0	13.0	1.3	WSW
W	13	6.7	1.3	.7	.0	.0	.0	8.7	1.5	W
WNW	14	5.0	.7	.0	.0	.0	.0	5.7	1.2	WNW
NW	15	5.7	.7	.0	.0	.0	.0	6.3	1.1	NW
NNW	16	6.7	1.0	.0	.0	.0	.0	7.7	1.3	NNW
CALM		2.7						2.7		
TOTAL		82.3	10.7	4.7	2.3	.0	.0	100.0	1.4	

90.4% 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

10/ 1/1996 - 10/31/1996
2000 - 600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.5	2.8	.7	.3	.0	.0	7.3	2.2	N
NNE	2	2.8	.3	2.4	1.0	.0	.0	6.6	3.0	NNE
NE	3	5.6	1.4	.3	.0	.0	.0	7.3	1.4	NE
ENE	4	2.1	2.1	.0	.0	.0	.0	4.2	1.6	ENE
E	5	1.0	.3	.0	.0	.0	.0	1.4	1.6	E
ESE	6	1.0	.0	.0	.0	.0	.0	1.0	.8	ESE
SE	7	1.4	.0	.0	.0	.0	.0	1.4	.7	SE
SSE	8	1.4	.0	.0	.0	.0	.0	1.4	.8	SSE
S	9	5.9	.3	.0	.0	.0	.0	6.3	.9	S
SSW	10	8.3	.3	.0	.0	.0	.0	8.7	1.0	SSW
SW	11	11.5	1.0	.0	.7	.0	.0	13.2	1.3	SW
WSW	12	10.1	.0	1.0	.3	.0	.0	11.5	1.4	WSW
W	13	6.3	.7	.3	.0	.0	.0	7.3	1.2	W
WNW	14	7.3	2.1	.3	.0	.0	.0	9.7	1.5	WNW
NW	15	3.5	1.0	.0	.0	.3	.0	4.9	1.9	NW
NNW	16	4.2	.7	.0	.0	.3	.0	5.2	1.8	NNW
CALM		2.8						2.8		
TOTAL		78.5	13.2	5.2	2.4	.7	.0	100.0	1.5	

84.1% 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 11/ 1/1996 - 11/30/1996
2000 - 600 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.8	1.6	.4	.0	.0	.0	4.8	1.9	N
NNE	2	5.6	4.8	4.0	.4	.0	.0	14.7	2.5	NNE
NE	3	2.4	2.8	.8	.0	.0	.0	6.0	2.1	NE
ENE	4	1.2	2.0	.8	.0	.0	.0	4.0	2.2	ENE
E	5	1.6	.0	.0	.0	.0	.0	1.6	1.1	E
ESE	6	1.6	.0	.0	.0	.0	.0	1.6	.9	ESE
SE	7	.8	.0	.0	.0	.0	.0	.8	.9	SE
SSE	8	3.6	.4	.0	.0	.0	.0	4.0	1.0	SSE
S	9	4.4	.0	.0	.0	.0	.0	4.4	.9	S
SSW	10	10.7	1.6	.0	1.6	.4	.0	14.3	2.1	SSW
SW	11	13.1	2.4	.4	.0	.0	.0	15.9	1.3	SW
WSW	12	6.0	1.2	.0	.0	.0	.0	7.1	1.3	WSW
W	13	6.3	.4	.0	.0	.0	.0	6.7	1.1	W
WNW	14	4.8	.0	.0	.0	.0	.0	4.8	1.1	WNW
NW	15	1.6	.0	.0	.0	.0	.0	1.6	.9	NW
NNW	16	5.2	.8	.4	.0	.0	.0	6.3	1.4	NNW
CALM		1.6						1.6		
TOTAL		73.0	17.9	6.7	2.0	.4	.0	100.0	1.6	

75.1% DATA RECOVERED
46.6% 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 - Night Time 12/ 1/1996 - 12/31/1996
2000 - 600 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.9	.5	.0	.0	.0	.0	4.4	1.2	N
NNE	2	3.4	.0	.0	.0	.0	.0	3.4	1.1	NNE
NE	3	3.0	.0	.0	.0	.0	.0	3.0	1.0	NE
ENE	4	5.4	.0	.0	.0	.0	.0	5.4	1.1	ENE
E	5	2.0	.5	.0	.0	.0	.0	2.5	1.2	E
ESE	6	7.9	.0	.0	.0	.0	.0	7.9	1.0	ESE
SE	7	2.0	.0	.0	.0	.0	.0	2.0	1.0	SE
SSE	8	1.5	.0	.0	.0	.0	.0	1.5	1.0	SSE
S	9	5.4	.5	.0	.0	.0	.0	5.9	1.1	S
SSW	10	6.9	.0	1.5	1.5	4.4	1.0	15.3	5.2	SSW
SW	11	7.9	1.5	3.0	1.5	.0	.0	13.8	2.4	SW
WSW	12	6.9	.5	1.0	1.0	.0	.0	9.4	2.1	WSW
W	13	7.4	1.0	.0	.0	.0	.0	8.4	1.2	W
WNW	14	4.9	1.0	.0	.0	.0	.0	5.9	1.2	WNW
NW	15	2.5	.5	.0	.0	.0	.0	3.0	1.1	NW
NNW	16	6.4	1.5	.5	.0	.0	.0	8.4	1.5	NNW
CALM		.0						.0		
TOTAL		77.3	7.4	5.9	3.9	4.4	1.0	100.0	2.0	

58.7% DATA RECOVERED
46.5% 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/ 1/1996 - 1/31/1996
0 - 2400 (PST)

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	1.1	.0	.0	.0	.0	.0	1.1	.6	N
NNE	2	10.8	1.1	.0	.0	.0	.0	11.8	.8	NNE
NE	3	7.5	.0	.0	.0	.0	.0	7.5	.9	NE
ENE	4	7.5	.0	.0	.0	.0	.0	7.5	.9	ENE
E	5	9.7	.0	.0	.0	.0	.0	9.7	.8	E
ESE	6	8.6	.0	.0	.0	.0	.0	8.6	.8	ESE
SE	7	9.7	1.1	.0	.0	.0	.0	10.8	.9	SE
SSE	8	6.5	.0	.0	.0	.0	.0	6.5	1.0	SSE
S	9	7.5	.0	.0	.0	.0	.0	7.5	.9	S
SSW	10	2.2	1.1	.0	.0	.0	.0	3.2	1.3	SSW
SW	11	4.3	.0	.0	.0	.0	.0	4.3	.8	SW
WSW	12	.0	.0	.0	.0	.0	.0	.0	.0	WSW
W	13	1.1	.0	.0	.0	.0	.0	1.1	.8	W
WNW	14	2.2	.0	.0	.0	.0	.0	2.2	.7	WNW
NW	15	1.1	.0	.0	.0	.0	.0	1.1	.5	NW
NNW	16	4.3	.0	.0	.0	.0	.0	4.3	.8	NNW
CALM		12.9						12.9		
TOTAL		96.8	3.2	.0	.0	.0	.0	100.0	.8	

74.2% 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

2/ 1/1996 - 2/29/1996
0 - 2400 (PST)

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	4.0	.0	.0	.0	.0	.0	4.0	.9	N
NNE	2	6.0	.0	.0	.0	.0	.0	6.0	.8	NNE
NE	3	4.0	.0	.0	.0	.0	.0	4.0	.9	NE
ENE	4	10.0	.0	.0	.0	.0	.0	10.0	.9	ENE
E	5	6.0	1.0	.0	.0	.0	.0	7.0	1.1	E
ESE	6	10.0	.0	.0	.0	.0	.0	10.0	1.0	ESE
SE	7	6.0	.0	.0	.0	.0	.0	6.0	1.0	SE
SSE	8	8.0	.0	.0	.0	.0	.0	8.0	1.1	SSE
S	9	2.0	.0	.0	.0	.0	.0	2.0	1.0	S
SSW	10	9.0	2.0	.0	.0	.0	.0	11.0	1.3	SSW
SW	11	3.0	2.0	.0	.0	.0	.0	5.0	1.7	SW
WSW	12	3.0	.0	.0	.0	.0	.0	3.0	.7	WSW
W	13	4.0	2.0	.0	.0	.0	.0	6.0	1.1	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	3.0	.0	.0	.0	.0	.0	3.0	.8	NNW
CALM		15.0						15.0		
TOTAL		93.0	7.0	.0	.0	.0	.0	100.0	.9	

84.9% 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

2 METER HEIGHT - Total Hours 3/ 1/1996 - 3/31/1996
0 - 2400 (PST)

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	2.6	4.3	.0	.0	.0	.0	6.9	1.8	N
NNE	2	5.2	2.6	.0	.0	.0	.0	7.8	1.5	NNE
NE	3	1.7	.0	.0	.0	.0	.0	1.7	1.0	NE
ENE	4	2.6	2.6	.0	.0	.0	.0	5.2	1.6	ENE
E	5	10.3	.9	.0	.0	.0	.0	11.2	1.2	E
ESE	6	8.6	1.7	.0	.0	.0	.0	10.3	1.2	ESE
SE	7	5.2	.9	.0	.0	.0	.0	6.0	1.2	SE
SSE	8	10.3	.9	.0	.0	.0	.0	11.2	1.3	SSE
S	9	7.8	1.7	.0	.0	.0	.0	9.5	1.4	S
SSW	10	2.6	3.4	.0	.0	.0	.0	6.0	1.7	SSW
SW	11	1.7	1.7	.0	.0	.0	.0	3.4	1.9	SW
WSW	12	1.7	.9	.0	.0	.0	.0	2.6	1.1	WSW
W	13	.9	.0	.0	.0	.0	.0	.9	1.3	W
WNW	14	2.6	.9	.0	.0	.0	.0	3.4	1.5	WNW
NW	15	3.4	.9	.0	.0	.0	.0	4.3	1.4	NW
NNW	16	2.6	2.6	.0	.0	.0	.0	5.2	1.5	NNW
CALM		4.3						4.3		
TOTAL		74.1	25.9	.0	.0	.0	.0	100.0	1.3	

82.7% DATA RECOVERED
18.9% 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 4/ 1/1996 - 4/30/1996
0 - 2400 (PST)

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	.8	.8	.0	.0	.0	.0	1.7	1.4	N
NNE	2	1.7	.0	.0	.0	.0	.0	1.7	1.2	NNE
NE	3	12.6	1.7	.0	.0	.0	.0	14.3	1.2	NE
ENE	4	8.4	.8	.0	.0	.0	.0	9.2	1.1	ENE
E	5	2.5	.8	.0	.0	.0	.0	3.4	1.3	E
ESE	6	5.0	1.7	.0	.0	.0	.0	6.7	1.4	ESE
SE	7	9.2	4.2	.0	.0	.0	.0	13.4	1.5	SE
SSE	8	10.9	.8	.0	.0	.0	.0	11.8	1.2	SSE
S	9	4.2	2.5	.0	.0	.0	.0	6.7	1.6	S
SSW	10	7.6	5.0	.0	.0	.0	.0	12.6	1.8	SSW
SW	11	3.4	1.7	.0	.0	.0	.0	5.0	1.4	SW
WSW	12	3.4	.0	.0	.0	.0	.0	3.4	.9	WSW
W	13	.8	.0	.0	.0	.0	.0	.8	1.0	W
WNW	14	.8	.0	.0	.0	.0	.0	.8	.6	WNW
NW	15	.8	.8	.0	.0	.0	.0	1.7	2.0	NW
NNW	16	.0	4.2	.0	.0	.0	.0	4.2	2.4	NNW
CALM		2.5						2.5		
TOTAL		74.8	25.2	.0	.0	.0	.0	100.0	1.4	

96.8% 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

2 METER HEIGHT - Total Hours 5/ 1/1996 - 5/31/1996
0 - 2400 (PST)

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	3.4	.9	.0	.0	.0	.0	4.3	1.4	N
NNE	2	3.4	3.4	.0	.0	.0	.0	6.8	1.5	NNE
NE	3	5.1	.0	.0	.0	.0	.0	5.1	.8	NE
ENE	4	6.8	1.7	.0	.0	.0	.0	8.5	1.3	ENE
E	5	7.7	1.7	.0	.0	.0	.0	9.4	1.3	E
ESE	6	3.4	3.4	.0	.0	.0	.0	6.8	1.8	ESE
SE	7	6.8	1.7	.0	.0	.0	.0	8.5	1.4	SE
SSE	8	5.1	2.6	.0	.0	.0	.0	7.7	1.4	SSE
S	9	4.3	.9	.0	.0	.0	.0	5.1	1.6	S
SSW	10	6.0	6.0	.0	.0	.0	.0	12.0	1.9	SSW
SW	11	1.7	3.4	.0	.0	.0	.0	5.1	1.7	SW
WSW	12	2.6	3.4	.0	.0	.0	.0	6.0	1.9	WSW
W	13	3.4	.0	.0	.0	.0	.0	3.4	1.2	W
WNW	14	.9	.0	.0	.0	.0	.0	.9	1.2	WNW
NW	15	.9	1.7	.0	.0	.0	.0	2.6	1.7	NW
NNW	16	1.7	.0	.0	.0	.0	.0	1.7	1.2	NNW
CALM		6.0						6.0		
TOTAL		69.2	30.8	.0	.0	.0	.0	100.0	1.4	

100.0% DATA RECOVERED
15.7% 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 6/ 1/1996 - 6/30/1996
0 - 2400 (PST)

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	1.9	1.3	.0	.0	.0	.0	3.1	1.4	N
NNE	2	3.1	.6	.0	.0	.0	.0	3.8	1.0	NNE
NE	3	6.3	1.3	.0	.0	.0	.0	7.5	.9	NE
ENE	4	8.1	.0	.0	.0	.0	.0	8.1	1.1	ENE
E	5	6.9	1.9	.0	.0	.0	.0	8.8	1.3	E
ESE	6	4.4	2.5	.0	.0	.0	.0	6.9	1.6	ESE
SE	7	6.3	2.5	.0	.0	.0	.0	8.8	1.4	SE
SSE	8	1.9	4.4	.0	.0	.0	.0	6.3	1.9	SSE
S	9	5.0	1.9	.0	.0	.0	.0	6.9	1.3	S
SSW	10	8.1	1.9	.0	.0	.0	.0	10.0	1.3	SSW
SW	11	3.8	2.5	.0	.0	.0	.0	6.3	1.5	SW
WSW	12	3.1	.6	.0	.0	.0	.0	3.8	1.0	WSW
W	13	3.1	3.1	.0	.0	.0	.0	6.3	1.7	W
WNW	14	.0	1.3	.0	.0	.0	.0	1.3	2.3	WNW
NW	15	2.5	.0	.0	.0	.0	.0	2.5	1.4	NW
NNW	16	.6	.0	.0	.0	.0	.0	.6	.8	NNW
CALM		9.4						9.4		
TOTAL		74.4	25.6	.0	.0	.0	.0	100.0	1.2	

100.0% DATA RECOVERED
22.2% 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/ 1/1996 - 7/31/1996
0 - 2400 (PST)

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	3.4	.0	.0	.0	.0	.0	3.4	.9	N
NNE	2	4.3	.9	.0	.0	.0	.0	5.2	.9	NNE
NE	3	6.0	.0	.0	.0	.0	.0	6.0	.9	NE
ENE	4	6.0	.9	.0	.0	.0	.0	6.9	1.0	ENE
E	5	5.2	.0	.0	.0	.0	.0	5.2	1.0	E
ESE	6	3.4	.0	.0	.0	.0	.0	3.4	1.0	ESE
SE	7	7.8	1.7	.0	.0	.0	.0	9.5	1.1	SE
SSE	8	3.4	1.7	.0	.0	.0	.0	5.2	1.8	SSE
S	9	4.3	.9	.0	.0	.0	.0	5.2	1.2	S
SSW	10	6.0	5.2	.0	.0	.0	.0	11.2	1.7	SSW
SW	11	3.4	3.4	.0	.0	.0	.0	6.9	1.7	SW
WSW	12	6.0	1.7	.0	.0	.0	.0	7.8	1.2	WSW
W	13	.9	.0	.0	.0	.0	.0	.9	.9	W
WNW	14	1.7	.9	.0	.0	.0	.0	2.6	1.5	WNW
NW	15	.9	1.7	.0	.0	.0	.0	2.6	1.5	NW
NNW	16	3.4	.0	.0	.0	.0	.0	3.4	.8	NNW
CALM		14.7						14.7		
TOTAL		81.0	19.0	.0	.0	.0	.0	100.0	1.1	

100.0% DATA RECOVERED
15.6% 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

8/ 1/1996 - 8/31/1996
0 - 2400 (PST)

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	2.5	.6	.0	.0	.0	.0	3.2	1.5	N
NNE	2	4.5	1.3	.0	.0	.0	.0	5.7	1.0	NNE
NE	3	7.6	1.9	.0	.0	.0	.0	9.6	1.1	NE
ENE	4	10.2	.0	.0	.0	.0	.0	10.2	1.0	ENE
E	5	8.9	1.9	.0	.0	.0	.0	10.8	1.1	E
ESE	6	7.0	2.5	.0	.0	.0	.0	9.6	1.4	ESE
SE	7	3.8	.6	.0	.0	.0	.0	4.5	1.3	SE
SSE	8	3.2	1.3	.0	.0	.0	.0	4.5	1.7	SSE
S	9	4.5	1.9	.0	.0	.0	.0	6.4	1.6	S
SSW	10	3.2	2.5	.0	.0	.0	.0	5.7	1.4	SSW
SW	11	3.2	4.5	.0	.0	.0	.0	7.6	1.9	SW
WSW	12	1.3	1.9	.0	.0	.0	.0	3.2	1.7	WSW
W	13	1.3	.0	.0	.0	.0	.0	1.3	1.1	W
WNW	14	5.1	.0	.0	.0	.0	.0	5.1	.9	WNW
NW	15	2.5	.6	.0	.0	.0	.0	3.2	1.0	NW
NNW	16	1.9	.6	.0	.0	.0	.0	2.5	1.4	NNW
CALM		7.0						7.0		
TOTAL		77.7	22.3	.0	.0	.0	.0	100.0	1.2	

98.4% DATA RECOVERED
21.4% 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

9/ 1/1996 - 9/30/1996
0 - 2400 (PST)

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	3.1	1.6	.0	.0	.0	.0	4.7	1.3	NNE
NE	3	7.8	.8	.0	.0	.0	.0	8.5	1.0	NE
ENE	4	10.1	1.6	.0	.0	.0	.0	11.6	1.2	ENE
E	5	4.7	1.6	.0	.0	.0	.0	6.2	1.3	E
ESE	6	1.6	1.6	.0	.0	.0	.0	3.1	1.3	ESE
SE	7	2.3	2.3	.0	.0	.0	.0	4.7	1.7	SE
SSE	8	1.6	.8	.0	.0	.0	.0	2.3	1.3	SSE
S	9	3.9	7.8	.0	.0	.0	.0	11.6	1.9	S
SSW	10	5.4	6.2	.0	.0	.0	.0	11.6	1.9	SSW
SW	11	3.1	2.3	.0	.0	.0	.0	5.4	1.6	SW
WSW	12	3.1	.0	.0	.0	.0	.0	3.1	1.0	WSW
W	13	3.1	1.6	.0	.0	.0	.0	4.7	1.2	W
WNW	14	.8	.0	.0	.0	.0	.0	.8	.6	WNW
NW	15	1.6	.0	.0	.0	.0	.0	1.6	.9	NW
NNW	16	2.3	.8	.0	.0	.0	.0	3.1	1.3	NNW
CALM		14.7						14.7		
TOTAL		71.3	28.7	.0	.0	.0	.0	100.0	1.2	

90.4% DATA RECOVERED
19.8% 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

10/ 1/1996 - 10/31/1996
0 - 2400 (PST)

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	6.0	1.5	.0	.0	.0	.0	7.5	1.1	N
NNE	2	5.3	1.5	.0	.0	.0	.0	6.8	1.2	NNE
NE	3	5.3	2.3	.0	.0	.0	.0	7.5	1.2	NE
ENE	4	9.8	2.3	.0	.0	.0	.0	12.0	1.2	ENE
E	5	6.0	.8	.0	.0	.0	.0	6.8	1.0	E
ESE	6	3.8	3.8	.0	.0	.0	.0	7.5	1.6	ESE
SE	7	1.5	.0	.0	.0	.0	.0	1.5	.7	SE
SSE	8	4.5	.0	.0	.0	.0	.0	4.5	1.3	SSE
S	9	6.8	.8	.0	.0	.0	.0	7.5	1.1	S
SSW	10	3.8	.0	.0	.0	.0	.0	3.8	1.0	SSW
SW	11	2.3	.0	.0	.0	.0	.0	2.3	1.2	SW
WSW	12	5.3	1.5	.0	.0	.0	.0	6.8	1.6	WSW
W	13	3.8	.0	.0	.0	.0	.0	3.8	1.0	W
WNW	14	.8	.8	.0	.0	.0	.0	1.5	1.8	WNW
NW	15	4.5	.0	.0	.0	.0	.0	4.5	.8	NW
NNW	16	3.0	.8	.0	.0	.0	.0	3.8	1.1	NNW
CALM		12.0						12.0		
TOTAL		84.2	15.8	.0	.0	.0	.0	100.0	1.1	

84.1% 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/ 1/1996 - 11/30/1996
0 - 2400 (PST)

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	8.4	.0	.0	.0	.0	.0	8.4	.7	N
NNE	2	6.0	1.2	.0	.0	.0	.0	7.2	1.1	NNE
NE	3	8.4	.0	.0	.0	.0	.0	8.4	.9	NE
ENE	4	9.6	1.2	.0	.0	.0	.0	10.8	1.3	ENE
E	5	7.2	.0	.0	.0	.0	.0	7.2	.8	E
ESE	6	3.6	1.2	.0	.0	.0	.0	4.8	1.3	ESE
SE	7	9.6	1.2	.0	.0	.0	.0	10.8	1.1	SE
SSE	8	1.2	1.2	.0	.0	.0	.0	2.4	1.8	SSE
S	9	2.4	.0	.0	.0	.0	.0	2.4	1.2	S
SSW	10	2.4	.0	.0	.0	.0	.0	2.4	.6	SSW
SW	11	1.2	.0	.0	.0	.0	.0	1.2	.5	SW
WSW	12	2.4	.0	.0	.0	.0	.0	2.4	1.2	WSW
W	13	2.4	.0	.0	.0	.0	.0	2.4	.8	W
WNW	14	2.4	.0	.0	.0	.0	.0	2.4	.9	WNW
NW	15	4.8	.0	.0	.0	.0	.0	4.8	.9	NW
NNW	16	3.6	.0	.0	.0	.0	.0	3.6	.9	NNW
CALM		18.1						18.1		
TOTAL		94.0	6.0	.0	.0	.0	.0	100.0	.8	

75.1% DATA RECOVERED
15.3% 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/ 1/1996 - 12/31/1996
0 - 2400 (PST)

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	.8	N
NNE	2	7.1	.0	.0	.0	.0	.0	7.1	1.1	NNE
NE	3	8.9	.0	.0	.0	.0	.0	8.9	1.0	NE
ENE	4	16.1	.0	.0	.0	.0	.0	16.1	.9	ENE
E	5	7.1	.0	.0	.0	.0	.0	7.1	.8	E
ESE	6	3.6	.0	.0	.0	.0	.0	3.6	.8	ESE
SE	7	10.7	.0	.0	.0	.0	.0	10.7	.8	SE
SSE	8	5.4	.0	.0	.0	.0	.0	5.4	.9	SSE
S	9	1.8	.0	.0	.0	.0	.0	1.8	.7	S
SSW	10	8.9	.0	.0	.0	.0	.0	8.9	1.0	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	1.8	.0	.0	.0	.0	.0	1.8	.7	W
WNW	14	3.6	.0	.0	.0	.0	.0	3.6	1.2	WNW
NW	15	1.8	.0	.0	.0	.0	.0	1.8	.8	NW
NNW	16	3.6	.0	.0	.0	.0	.0	3.6	.6	NNW
CALM		12.5						12.5		
TOTAL		100.0	.0	.0	.0	.0	.0	100.0	.8	

58.7% DATA RECOVERED
12.8% 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

1/ 1/1996 - 1/31/1996
0 - 2400 (PST)

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	.9	N
NNE	2	8.0	4.0	.0	.0	.0	.0	12.0	1.8	NNE
NE	3	20.0	.0	.0	.0	.0	.0	20.0	.9	NE
ENE	4	8.0	.0	.0	.0	.0	.0	8.0	1.0	ENE
E	5	4.0	.0	.0	.0	.0	.0	4.0	1.2	E
ESE	6	12.0	.0	.0	.0	.0	.0	12.0	.9	ESE
SE	7	4.0	.0	.0	.0	.0	.0	4.0	.9	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	4.0	4.0	.0	.0	.0	8.0	3.3	S
SSW	10	8.0	.0	.0	.0	.0	.0	8.0	1.1	SSW
SW	11	.0	4.0	.0	.0	.0	.0	4.0	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	8.0	.0	.0	.0	.0	.0	8.0	.6	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		8.0						8.0		
TOTAL		84.0	12.0	4.0	.0	.0	.0	100.0	1.2	

74.2% DATA RECOVERED
4.5% 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

2/ 1/1996 - 2/29/1996
0 - 2400 (PST)

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	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	4.0	.0	.0	.0	.0	.0	4.0	1.3	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	12.0	4.0	.0	.0	.0	.0	16.0	1.3	E
ESE	6	8.0	.0	.0	.0	.0	.0	8.0	1.0	ESE
SE	7	4.0	.0	.0	.0	.0	.0	4.0	1.4	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	12.0	12.0	.0	.0	.0	.0	24.0	1.8	S
SSW	10	8.0	4.0	4.0	.0	.0	.0	16.0	2.0	SSW
SW	11	.0	4.0	4.0	.0	.0	.0	8.0	3.3	SW
WSW	12	8.0	.0	.0	.0	.0	.0	8.0	1.1	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		12.0						12.0		
TOTAL		68.0	24.0	8.0	.0	.0	.0	100.0	1.5	

84.9% DATA RECOVERED
4.2% 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/ 1/1996 - 3/31/1996
0 - 2400 (PST)

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	9.1	4.5	9.1	.0	.0	.0	22.7	2.5	N
NNE	2	.0	9.1	4.5	.0	.0	.0	13.6	3.1	NNE
NE	3	4.5	.0	.0	.0	.0	.0	4.5	1.2	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	9.1	.0	.0	.0	.0	.0	9.1	1.1	E
ESE	6	.0	4.5	.0	.0	.0	.0	4.5	2.4	ESE
SE	7	9.1	.0	.0	.0	.0	.0	9.1	1.1	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	4.5	.0	.0	.0	.0	.0	4.5	1.7	S
SSW	10	4.5	.0	4.5	.0	.0	.0	9.1	2.5	SSW
SW	11	9.1	4.5	.0	.0	.0	.0	13.6	1.5	SW
WSW	12	.0	9.1	.0	.0	.0	.0	9.1	2.8	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		50.0	31.8	18.2	.0	.0	.0	100.0	2.1	

82.7% DATA RECOVERED
3.6% 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/ 1/1996 - 4/30/1996
0 - 2400 (PST)

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	2.9	.0	.0	.0	2.9	3.6	N
NNE	2	.0	.0	5.9	.0	.0	.0	5.9	3.5	NNE
NE	3	.0	2.9	.0	.0	.0	.0	2.9	3.0	NE
ENE	4	2.9	2.9	.0	.0	.0	.0	5.9	2.0	ENE
E	5	.0	5.9	.0	.0	.0	.0	5.9	3.1	E
ESE	6	2.9	.0	.0	.0	.0	.0	2.9	1.1	ESE
SE	7	2.9	5.9	2.9	.0	.0	.0	11.8	2.3	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	2.9	2.9	.0	.0	.0	5.9	3.3	S
SSW	10	.0	11.8	5.9	.0	.0	.0	17.6	3.2	SSW
SW	11	5.9	8.8	.0	.0	.0	.0	14.7	2.2	SW
WSW	12	.0	2.9	2.9	.0	.0	.0	5.9	2.9	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	8.8	.0	.0	.0	.0	8.8	3.0	WNW
NW	15	.0	.0	8.8	.0	.0	.0	8.8	3.5	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0						.0		
TOTAL		14.7	52.9	32.4	.0	.0	.0	100.0	2.8	

96.8% DATA RECOVERED
4.9% 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 5/ 1/1996 - 5/31/1996
0 - 2400 (PST)

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	3.8	.0	.0	.0	.0	3.8	2.9	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	7.7	.0	.0	.0	.0	.0	7.7	1.2	ENE
E	5	.0	3.8	.0	.0	.0	.0	3.8	3.3	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	3.8	.0	.0	.0	.0	3.8	3.1	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	15.4	19.2	.0	.0	.0	34.6	3.0	SSW
SW	11	3.8	23.1	3.8	.0	.0	.0	30.8	2.8	SW
WSW	12	.0	3.8	11.5	.0	.0	.0	15.4	3.4	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		11.5	53.8	34.6	.0	.0	.0	100.0	2.9	

100.0% DATA RECOVERED
3.5% 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

6/ 1/1996 - 6/30/1996
0 - 2400 (PST)

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	3.1	.0	.0	.0	.0	.0	3.1	.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	3.1	.0	.0	.0	.0	3.1	2.8	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	3.1	.0	3.1	.0	.0	.0	6.3	2.4	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	6.3	3.1	.0	.0	.0	.0	9.4	1.7	S
SSW	10	.0	9.4	12.5	.0	.0	.0	21.9	3.3	SSW
SW	11	3.1	6.3	25.0	.0	.0	.0	34.4	3.2	SW
WSW	12	.0	3.1	3.1	.0	.0	.0	6.3	3.3	WSW
W	13	3.1	3.1	.0	.0	.0	.0	6.3	2.0	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	6.3	.0	.0	.0	.0	.0	6.3	.8	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		3.1						3.1		
TOTAL		28.1	28.1	43.8	.0	.0	.0	100.0	2.6	

100.0% DATA RECOVERED
4.4% 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 7/ 1/1996 - 7/31/1996
0 - 2400 (PST)

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	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	3.2	.0	.0	.0	.0	.0	3.2	.5	ENE
E	5	3.2	.0	.0	.0	.0	.0	3.2	1.5	E
ESE	6	6.5	.0	.0	.0	.0	.0	6.5	1.3	ESE
SE	7	3.2	3.2	.0	.0	.0	.0	6.5	2.2	SE
SSE	8	.0	3.2	.0	.0	.0	.0	3.2	3.1	SSE
S	9	.0	12.9	.0	.0	.0	.0	12.9	3.0	S
SSW	10	.0	3.2	6.5	.0	.0	.0	9.7	3.3	SSW
SW	11	.0	22.6	12.9	.0	.0	.0	35.5	3.3	SW
WSW	12	.0	6.5	6.5	.0	.0	.0	12.9	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	6.5	.0	.0	.0	.0	.0	6.5	.9	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0						.0		
TOTAL		22.6	51.6	25.8	.0	.0	.0	100.0	2.7	

100.0% DATA RECOVERED
4.2% 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

8/ 1/1996 - 8/31/1996
0 - 2400 (PST)

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	.0	2.7	.0	.0	.0	.0	2.7	2.0	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	2.7	5.4	2.7	.0	.0	.0	10.8	2.5	E
ESE	6	.0	2.7	.0	.0	.0	.0	2.7	2.4	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	5.4	2.7	.0	.0	.0	8.1	3.2	S
SSW	10	5.4	8.1	5.4	.0	.0	.0	18.9	2.5	SSW
SW	11	.0	29.7	2.7	.0	.0	.0	32.4	3.0	SW
WSW	12	2.7	5.4	.0	.0	.0	.0	8.1	2.3	WSW
W	13	.0	2.7	5.4	.0	.0	.0	8.1	3.3	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	5.4	.0	.0	.0	.0	5.4	3.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		2.7						2.7		
TOTAL		13.5	67.6	18.9	.0	.0	.0	100.0	2.7	

98.4% 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

9/ 1/1996 - 9/30/1996
0 - 2400 (PST)

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	3.6	.0	.0	.0	.0	3.6	3.0	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	.0	.0	3.6	.0	.0	.0	3.6	3.4	NE
ENE	4	.0	3.6	.0	.0	.0	.0	3.6	2.8	ENE
E	5	3.6	7.1	.0	.0	.0	.0	10.7	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	3.6	.0	.0	.0	.0	3.6	2.6	SSE
S	9	10.7	3.6	.0	.0	.0	.0	14.3	1.4	S
SSW	10	3.6	7.1	3.6	.0	.0	.0	14.3	2.6	SSW
SW	11	3.6	.0	17.9	.0	.0	.0	21.4	3.1	SW
WSW	12	.0	3.6	7.1	.0	.0	.0	10.7	3.3	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	3.6	.0	.0	.0	.0	3.6	3.2	WNW
NW	15	.0	.0	3.6	.0	.0	.0	3.6	3.3	NW
NNW	16	.0	3.6	.0	.0	.0	.0	3.6	3.2	NNW
CALM		3.6						3.6		
TOTAL		25.0	39.3	35.7	.0	.0	.0	100.0	2.6	

90.4% 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

10/ 1/1996 - 10/31/1996
0 - 2400 (PST)

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	14.3	.0	.0	.0	.0	14.3	2.5	NNE
NE	3	7.1	.0	.0	.0	.0	.0	7.1	.9	NE
ENE	4	.0	7.1	.0	.0	.0	.0	7.1	2.9	ENE
E	5	14.3	.0	.0	.0	.0	.0	14.3	1.3	E
ESE	6	14.3	.0	.0	.0	.0	.0	14.3	1.4	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	7.1	.0	.0	.0	.0	.0	7.1	1.0	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	.0	14.3	.0	.0	.0	.0	14.3	2.6	SSW
SW	11	7.1	.0	.0	.0	.0	.0	7.1	1.2	SW
WSW	12	.0	7.1	7.1	.0	.0	.0	14.3	3.0	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		50.0	42.9	7.1	.0	.0	.0	100.0	2.0	

84.1% DATA RECOVERED
2.2% 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/ 1/1996 - 11/30/1996
0 - 2400 (PST)

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	4.0	.0	.0	.0	8.0	2.2	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	8.0	4.0	4.0	.0	.0	.0	16.0	1.8	ENE
E	5	8.0	.0	.0	.0	.0	.0	8.0	1.0	E
ESE	6	8.0	.0	.0	.0	.0	.0	8.0	1.3	ESE
SE	7	4.0	.0	.0	.0	.0	.0	4.0	.6	SE
SSE	8	8.0	.0	.0	.0	.0	.0	8.0	1.1	SSE
S	9	8.0	.0	.0	.0	.0	.0	8.0	.6	S
SSW	10	4.0	.0	.0	.0	.0	.0	4.0	.7	SSW
SW	11	16.0	.0	.0	.0	.0	.0	16.0	.9	SW
WSW	12	4.0	.0	.0	.0	.0	.0	4.0	.8	WSW
W	13	4.0	.0	.0	.0	.0	.0	4.0	.5	W
WNW	14	4.0	.0	.0	.0	.0	.0	4.0	1.0	WNW
NW	15	4.0	.0	.0	.0	.0	.0	4.0	.8	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		4.0						4.0		
TOTAL		88.0	4.0	8.0	.0	.0	.0	100.0	1.1	

75.1% 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

12/ 1/1996 - 12/31/1996
0 - 2400 (PST)

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	6.3	.0	.0	.0	.0	6.3	2.0	NNE
NE	3	.0	6.3	.0	.0	.0	.0	6.3	1.9	NE
ENE	4	12.5	.0	.0	.0	.0	.0	12.5	.9	ENE
E	5	12.5	.0	.0	.0	.0	.0	12.5	.9	E
ESE	6	12.5	.0	.0	.0	.0	.0	12.5	1.1	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	6.3	.0	.0	.0	.0	.0	6.3	.8	S
SSW	10	6.3	6.3	.0	.0	.0	.0	12.5	1.7	SSW
SW	11	.0	.0	.0	.0	.0	.0	.0	.0	SW
WSW	12	.0	6.3	.0	.0	.0	.0	6.3	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	6.3	.0	.0	.0	.0	.0	6.3	.8	NW
NNW	16	12.5	.0	.0	.0	.0	.0	12.5	.9	NNW
CALM		6.3						6.3		
TOTAL		75.0	25.0	.0	.0	.0	.0	100.0	1.2	

58.7% DATA RECOVERED
3.7% 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/ 1/1996 - 1/31/1996
0 - 2400 (PST)

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	5.0	5.0	5.0	.0	.0	.0	15.0	2.6	NNE
NE	3	10.0	.0	.0	.0	.0	.0	10.0	1.0	NE
ENE	4	10.0	5.0	.0	.0	.0	.0	15.0	1.5	ENE
E	5	20.0	.0	.0	.0	.0	.0	20.0	.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	5.0	.0	.0	.0	.0	.0	5.0	1.1	SSE
S	9	5.0	.0	5.0	.0	.0	.0	10.0	2.7	S
SSW	10	.0	5.0	.0	.0	.0	.0	5.0	2.5	SSW
SW	11	10.0	.0	.0	.0	.0	.0	10.0	1.4	SW
WSW	12	5.0	.0	.0	.0	.0	.0	5.0	1.8	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	5.0	.0	.0	.0	.0	.0	5.0	1.0	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		75.0	15.0	10.0	.0	.0	.0	100.0	1.6	

74.2% DATA RECOVERED
3.6% 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

2/ 1/1996 - 2/29/1996
0 - 2400 (PST)

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	.0	.0	.0	.0	.0	NNE
NE	3	4.0	.0	.0	.0	.0	.0	4.0	1.0	NE
ENE	4	.0	.0	8.0	.0	.0	.0	8.0	3.8	ENE
E	5	4.0	.0	8.0	.0	.0	.0	12.0	2.8	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	4.0	4.0	.0	.0	.0	.0	8.0	1.5	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	4.0	8.0	.0	.0	.0	12.0	3.4	S
SSW	10	4.0	16.0	4.0	.0	.0	.0	24.0	2.4	SSW
SW	11	4.0	.0	8.0	.0	.0	.0	12.0	2.9	SW
WSW	12	4.0	4.0	8.0	.0	.0	.0	16.0	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	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		4.0						4.0		
TOTAL		28.0	28.0	44.0	.0	.0	.0	100.0	2.7	

84.9% DATA RECOVERED
4.2% 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/ 1/1996 - 3/31/1996
0 - 2400 (PST)

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	10.8	.0	.0	.0	10.8	3.9	N
NNE	2	2.7	.0	13.5	.0	.0	.0	16.2	4.2	NNE
NE	3	.0	.0	10.8	.0	.0	.0	10.8	4.1	NE
ENE	4	2.7	.0	.0	.0	.0	.0	2.7	1.5	ENE
E	5	2.7	2.7	.0	.0	.0	.0	5.4	2.0	E
ESE	6	.0	2.7	.0	.0	.0	.0	2.7	2.9	ESE
SE	7	.0	2.7	.0	.0	.0	.0	2.7	2.8	SE
SSE	8	2.7	.0	.0	.0	.0	.0	2.7	.9	SSE
S	9	2.7	.0	.0	.0	.0	.0	2.7	.6	S
SSW	10	5.4	.0	5.4	.0	.0	.0	10.8	3.0	SSW
SW	11	.0	.0	21.6	.0	.0	.0	21.6	4.7	SW
WSW	12	.0	.0	5.4	.0	.0	.0	5.4	4.3	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	2.7	.0	.0	.0	2.7	5.1	NW
NNW	16	.0	.0	2.7	.0	.0	.0	2.7	4.7	NNW
CALM		.0						.0		
TOTAL		18.9	8.1	73.0	.0	.0	.0	100.0	3.7	

82.7% 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

4/ 1/1996 - 4/30/1996
0 - 2400 (PST)

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	17.4	.0	.0	.0	17.4	4.4	N
NNE	2	.0	.0	19.6	2.2	.0	.0	21.7	4.2	NNE
NE	3	.0	.0	4.3	.0	.0	.0	4.3	4.5	NE
ENE	4	.0	2.2	2.2	.0	.0	.0	4.3	2.8	ENE
E	5	.0	.0	2.2	.0	.0	.0	2.2	4.2	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	2.2	.0	.0	.0	.0	.0	2.2	.9	S
SSW	10	2.2	.0	10.9	.0	.0	.0	13.0	3.6	SSW
SW	11	2.2	.0	10.9	.0	.0	.0	13.0	3.6	SW
WSW	12	.0	.0	4.3	.0	.0	.0	4.3	4.0	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	2.2	.0	.0	.0	2.2	4.0	WNW
NW	15	.0	.0	4.3	.0	.0	.0	4.3	4.7	NW
NNW	16	.0	.0	10.9	.0	.0	.0	10.9	4.6	NNW
CALM		.0						.0		
TOTAL		6.5	2.2	89.1	2.2	.0	.0	100.0	4.0	

96.8% DATA RECOVERED
6.6% 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/ 1/1996 - 5/31/1996
0 - 2400 (PST)

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	1.6	1.6	.0	.0	.0	3.2	3.6	N
NNE	2	.0	.0	6.3	.0	.0	.0	6.3	4.4	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	1.6	.0	.0	.0	.0	1.6	2.4	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	.0	1.6	.0	.0	.0	1.6	3.8	SSE
S	9	1.6	.0	.0	.0	.0	.0	1.6	1.4	S
SSW	10	.0	3.2	20.6	.0	.0	.0	23.8	4.4	SSW
SW	11	.0	.0	41.3	1.6	.0	.0	42.9	4.6	SW
WSW	12	.0	.0	9.5	.0	.0	.0	9.5	4.7	WSW
W	13	.0	.0	3.2	.0	.0	.0	3.2	4.2	W
WNW	14	.0	.0	4.8	.0	.0	.0	4.8	4.2	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	1.6	.0	.0	.0	1.6	5.1	NNW
CALM		.0						.0		
TOTAL		1.6	6.3	90.5	1.6	.0	.0	100.0	4.4	

100.0% 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

6/ 1/1996 - 6/30/1996
0 - 2400 (PST)

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	2.2	.0	2.2	.0	.0	.0	4.3	3.1	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	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	2.2	.0	.0	.0	.0	.0	2.2	1.6	ESE
SE	7	2.2	.0	4.3	.0	.0	.0	6.5	3.2	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	.0	4.3	2.2	.0	.0	6.5	4.3	S
SSW	10	2.2	.0	10.9	2.2	.0	.0	15.2	4.3	SSW
SW	11	2.2	.0	45.7	4.3	.0	.0	52.2	4.5	SW
WSW	12	.0	.0	6.5	.0	.0	.0	6.5	4.3	WSW
W	13	.0	.0	2.2	.0	.0	.0	2.2	3.8	W
WNW	14	2.2	.0	.0	.0	.0	.0	2.2	1.0	WNW
NW	15	.0	.0	2.2	.0	.0	.0	2.2	3.6	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0						.0		
TOTAL		13.0	.0	78.3	8.7	.0	.0	100.0	4.1	

100.0% DATA RECOVERED
6.4% 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

7/ 1/1996 - 7/31/1996
0 - 2400 (PST)

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	.0	.0	.0	.0	.0	NNE
NE	3	1.0	1.0	.0	.0	.0	.0	2.1	2.4	NE
ENE	4	.0	1.0	.0	.0	.0	.0	1.0	2.4	ENE
E	5	1.0	.0	1.0	.0	.0	.0	2.1	3.3	E
ESE	6	.0	1.0	1.0	.0	.0	.0	2.1	3.9	ESE
SE	7	.0	.0	1.0	.0	.0	.0	1.0	4.4	SE
SSE	8	1.0	.0	1.0	.0	.0	.0	2.1	2.4	SSE
S	9	.0	.0	4.1	.0	.0	.0	4.1	4.3	S
SSW	10	1.0	.0	13.4	.0	.0	.0	14.4	4.2	SSW
SW	11	1.0	.0	49.5	2.1	.0	.0	52.6	4.5	SW
WSW	12	.0	.0	13.4	.0	.0	.0	13.4	4.4	WSW
W	13	.0	.0	2.1	.0	.0	.0	2.1	4.3	W
WNW	14	.0	.0	2.1	.0	.0	.0	2.1	4.6	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	1.0	.0	.0	.0	1.0	4.4	NNW
CALM		.0						.0		
TOTAL		5.2	3.1	89.7	2.1	.0	.0	100.0	4.3	

100.0% DATA RECOVERED
13.0% 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/ 1/1996 - 8/31/1996
0 - 2400 (PST)

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	2.3	.0	.0	.0	2.3	4.9	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	2.3	.0	2.3	.0	.0	.0	4.7	2.8	NE
ENE	4	2.3	.0	.0	.0	.0	.0	2.3	1.2	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	2.3	.0	.0	.0	.0	2.3	2.0	SE
SSE	8	.0	.0	2.3	.0	.0	.0	2.3	4.4	SSE
S	9	.0	2.3	2.3	.0	.0	.0	4.7	3.7	S
SSW	10	.0	.0	16.3	.0	.0	.0	16.3	4.5	SSW
SW	11	4.7	4.7	37.2	.0	.0	.0	46.5	4.1	SW
WSW	12	2.3	2.3	9.3	.0	.0	.0	14.0	3.2	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	4.7	.0	.0	.0	4.7	4.4	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		11.6	11.6	76.7	.0	.0	.0	100.0	3.9	

98.4% 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 9/ 1/1996 - 9/30/1996
0 - 2400 (PST)

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	2.2	.0	.0	.0	2.2	4.0	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	2.2	2.2	.0	.0	.0	.0	4.4	2.2	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	2.2	2.2	.0	.0	.0	4.4	3.1	E
ESE	6	2.2	2.2	.0	.0	.0	.0	4.4	1.6	ESE
SE	7	.0	.0	2.2	.0	.0	.0	2.2	4.2	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	4.4	.0	8.9	.0	.0	.0	13.3	3.2	SSW
SW	11	4.4	.0	51.1	4.4	.0	.0	60.0	4.3	SW
WSW	12	.0	.0	2.2	.0	.0	.0	2.2	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	2.2	.0	.0	.0	2.2	5.0	NW
NNW	16	.0	.0	2.2	.0	.0	.0	2.2	5.1	NNW
CALM		2.2						2.2		
TOTAL		15.6	6.7	73.3	4.4	.0	.0	100.0	3.8	

90.4% DATA RECOVERED
6.9% 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

10/ 1/1996 - 10/31/1996
0 - 2400 (PST)

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	4.0	.0	.0	.0	4.0	4.7	N
NNE	2	.0	4.0	4.0	.0	.0	.0	8.0	3.6	NNE
NE	3	8.0	4.0	4.0	.0	.0	.0	16.0	2.5	NE
ENE	4	.0	4.0	.0	.0	.0	.0	4.0	2.1	ENE
E	5	8.0	4.0	.0	.0	.0	.0	12.0	1.3	E
ESE	6	4.0	.0	.0	.0	.0	.0	4.0	.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	4.0	.0	.0	.0	.0	.0	4.0	.7	S
SSW	10	.0	.0	.0	.0	.0	.0	.0	.0	SSW
SW	11	.0	4.0	28.0	.0	.0	.0	32.0	4.7	SW
WSW	12	.0	.0	8.0	.0	.0	.0	8.0	4.5	WSW
W	13	.0	.0	4.0	.0	.0	.0	4.0	4.2	W
WNW	14	.0	.0	4.0	.0	.0	.0	4.0	3.6	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		24.0	20.0	56.0	.0	.0	.0	100.0	3.3	

84.1% DATA RECOVERED
4.0% 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/ 1/1996 - 11/30/1996
0 - 2400 (PST)

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	14.3	.0	.0	.0	14.3	4.2	N
NNE	2	.0	.0	7.1	.0	.0	.0	7.1	3.9	NNE
NE	3	3.6	10.7	3.6	.0	.0	.0	17.9	2.6	NE
ENE	4	7.1	.0	.0	.0	.0	.0	7.1	1.1	ENE
E	5	10.7	.0	.0	.0	.0	.0	10.7	1.0	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	7.1	.0	.0	.0	.0	.0	7.1	.8	SE
SSE	8	7.1	.0	.0	.0	.0	.0	7.1	.9	SSE
S	9	3.6	.0	.0	.0	.0	.0	3.6	1.2	S
SSW	10	3.6	.0	.0	.0	.0	.0	3.6	1.5	SSW
SW	11	7.1	.0	.0	.0	.0	.0	7.1	1.0	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	7.1	.0	.0	.0	.0	.0	7.1	1.1	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		7.1						7.1		
TOTAL		64.3	10.7	25.0	.0	.0	.0	100.0	1.9	

75.1% 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

12/ 1/1996 - 12/31/1996
0 - 2400 (PST)

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	9.1	.0	.0	.0	.0	.0	9.1	.8	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	4.5	.0	.0	.0	.0	.0	4.5	.6	ENE
E	5	13.6	.0	.0	.0	.0	.0	13.6	1.4	E
ESE	6	13.6	.0	.0	.0	.0	.0	13.6	1.1	ESE
SE	7	4.5	.0	.0	.0	.0	.0	4.5	.9	SE
SSE	8	13.6	.0	.0	.0	.0	.0	13.6	1.1	SSE
S	9	9.1	.0	.0	.0	.0	.0	9.1	.9	S
SSW	10	4.5	.0	4.5	.0	.0	.0	9.1	2.6	SSW
SW	11	9.1	.0	4.5	.0	.0	.0	13.6	1.8	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	9.1	.0	.0	.0	.0	.0	9.1	1.1	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0						.0		
TOTAL		90.9	.0	9.1	.0	.0	.0	100.0	1.3	

58.7% 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

1/ 1/1996 - 1/31/1996
0 - 2400 (PST)

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	1.0	2.0	3.0	3.0	1.0	.0	10.1	4.7	N
NNE	2	1.0	1.0	6.1	4.0	.0	.0	12.1	4.5	NNE
NE	3	2.0	1.0	6.1	1.0	.0	.0	10.1	3.7	NE
ENE	4	1.0	1.0	1.0	.0	.0	.0	3.0	3.0	ENE
E	5	3.0	.0	.0	.0	.0	.0	3.0	1.6	E
ESE	6	1.0	1.0	.0	.0	.0	.0	2.0	1.4	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	1.0	.0	.0	.0	.0	1.0	2.0	SSE
S	9	2.0	3.0	1.0	1.0	.0	.0	7.1	2.8	S
SSW	10	3.0	1.0	1.0	3.0	4.0	.0	12.1	6.0	SSW
SW	11	2.0	5.1	2.0	1.0	6.1	.0	16.2	5.5	SW
WSW	12	.0	1.0	.0	2.0	.0	.0	3.0	5.6	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	1.0	.0	.0	.0	1.0	4.1	WNW
NW	15	.0	.0	1.0	2.0	2.0	.0	5.1	7.9	NW
NNW	16	.0	2.0	5.1	2.0	4.0	1.0	14.1	6.6	NNW
CALM		.0						.0		
TOTAL		16.2	19.2	27.3	19.2	17.2	1.0	100.0	4.9	

74.2% DATA RECOVERED
17.9% 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/ 1/1996 - 2/29/1996
0 - 2400 (PST)

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	1.6	.0	.0	.0	.0	.0	1.6	1.4	N
NNE	2	.0	.8	.0	.0	.0	.0	.8	1.8	NNE
NE	3	.8	.0	.0	.0	.0	.0	.8	1.0	NE
ENE	4	.0	.0	1.6	.0	.0	.0	1.6	4.0	ENE
E	5	.0	.8	.0	.0	.0	.0	.8	3.1	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.8	.0	.0	.0	.0	.0	.8	.7	SE
SSE	8	1.6	.8	.0	.0	.0	.0	2.5	1.5	SSE
S	9	4.1	1.6	.0	1.6	.0	.0	7.4	2.6	S
SSW	10	4.1	9.0	4.9	9.0	7.4	6.6	41.0	6.3	SSW
SW	11	7.4	4.1	7.4	6.6	3.3	.8	29.5	4.5	SW
WSW	12	4.1	.8	1.6	.8	.0	.0	7.4	2.7	WSW
W	13	.8	.0	.0	.0	.0	.0	.8	1.6	W
WNW	14	.8	.0	.8	.0	.0	.0	1.6	3.2	WNW
NW	15	.8	.8	.0	.0	.0	.0	1.6	1.9	NW
NNW	16	.8	.0	.0	.0	.0	.0	.8	1.2	NNW
CALM		.8						.8		
TOTAL		28.7	18.9	16.4	18.0	10.7	7.4	100.0	4.6	

84.9% 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 - Total Hours 3/ 1/1996 - 3/31/1996
0 - 2400 (PST)

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	2.5	3.7	3.1	1.2	.6	11.2	5.7	N
NNE	2	.6	.6	5.6	5.6	1.2	1.2	14.9	6.0	NNE
NE	3	.0	.6	2.5	.0	.0	.0	3.1	4.6	NE
ENE	4	.0	1.2	.0	.0	.0	.0	1.2	2.2	ENE
E	5	.0	.6	.0	.0	.0	.0	.6	2.2	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.6	.6	.0	.0	.0	.0	1.2	1.8	SE
SSE	8	.6	.0	.0	.0	.0	.0	.6	1.4	SSE
S	9	.6	1.2	.0	.0	.0	.6	2.5	4.4	S
SSW	10	.6	3.1	.6	2.5	3.7	6.8	17.4	8.3	SSW
SW	11	1.2	.6	2.5	15.5	5.0	.0	24.8	6.6	SW
WSW	12	1.2	2.5	.6	.6	.0	.0	5.0	2.7	WSW
W	13	.0	.6	.6	.6	.0	.0	1.9	4.5	W
WNW	14	.0	.0	.0	.6	.0	.0	.6	6.4	WNW
NW	15	.6	1.9	.6	3.1	1.2	.0	7.5	5.9	NW
NNW	16	.0	1.2	2.5	2.5	.0	.0	6.2	4.9	NNW
CALM		1.2						1.2		
TOTAL		7.5	17.4	19.3	34.2	12.4	9.3	100.0	5.9	

82.7% 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

4/ 1/1996 - 4/30/1996
0 - 2400 (PST)

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	5.6	2.0	.0	.0	8.0	4.7	N
NNE	2	.0	.0	4.4	7.2	.4	.0	12.0	6.1	NNE
NE	3	.4	1.6	5.2	2.0	1.2	.0	10.4	5.1	NE
ENE	4	.8	.4	1.2	.4	.0	.0	2.8	3.6	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	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	.8	.4	.0	.4	.0	1.6	4.7	S
SSW	10	2.4	.0	.8	6.8	9.2	4.8	23.9	8.4	SSW
SW	11	1.6	1.2	4.0	14.7	2.0	.8	24.3	6.5	SW
WSW	12	.0	.0	.8	2.4	.4	.0	3.6	6.2	WSW
W	13	.0	.0	.4	.0	.0	.0	.4	5.0	W
WNW	14	.0	.8	.8	1.2	.0	.0	2.8	4.9	WNW
NW	15	.0	1.6	.8	4.0	.0	.0	6.4	5.1	NW
NNW	16	.4	.8	.4	2.0	.4	.0	4.0	5.3	NNW
CALM		.0						.0		
TOTAL		6.0	7.2	24.7	42.6	13.9	5.6	100.0	6.3	

96.8% DATA RECOVERED
36.0% 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/ 1/1996 - 5/31/1996
0 - 2400 (PST)

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	.4	1.1	3.9	1.4	.0	6.8	6.9	N
NNE	2	.0	.7	1.8	2.2	.7	.0	5.4	6.1	NNE
NE	3	.0	.4	.4	1.1	.4	.0	2.2	6.3	NE
ENE	4	.4	.0	.0	.4	.0	.0	.7	4.2	ENE
E	5	.0	.0	1.1	.0	.0	.0	1.1	4.8	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	.4	.0	.0	.0	.0	.4	2.9	SE
SSE	8	.0	.4	.0	.0	.0	.0	.4	2.9	SSE
S	9	.0	.7	.4	.4	.7	.0	2.2	5.5	S
SSW	10	1.1	.4	2.2	6.5	6.8	3.9	20.8	8.1	SSW
SW	11	1.1	3.9	8.6	21.5	3.2	.4	38.7	5.8	SW
WSW	12	.0	1.4	3.9	3.2	.0	.0	8.6	4.6	WSW
W	13	.0	1.1	.7	1.1	.0	.0	2.9	4.3	W
WNW	14	.4	1.1	1.1	.0	.0	.0	2.5	3.0	WNW
NW	15	.0	1.4	1.1	.7	.4	.0	3.6	4.4	NW
NNW	16	.7	.4	1.4	1.1	.4	.0	3.9	4.8	NNW
CALM		.0						.0		
TOTAL		3.6	12.5	23.7	41.9	14.0	4.3	100.0	6.0	

100.0% DATA RECOVERED
37.5% 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

6/ 1/1996 - 6/30/1996
0 - 2400 (PST)

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	.0	.5	.0	.0	.0	.9	3.2	N
NNE	2	.0	.5	.0	.0	.0	.0	.5	1.8	NNE
NE	3	.9	1.4	.0	.0	.0	.0	2.3	2.1	NE
ENE	4	.5	.0	.0	.0	.0	.0	.5	1.4	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	.5	.5	.0	.0	.0	.0	.9	2.2	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	.5	.0	.5	.5	.0	1.4	6.3	S
SSW	10	.9	1.4	4.2	15.3	9.7	.0	31.5	7.1	SSW
SW	11	3.2	2.8	6.9	30.1	8.3	.9	52.3	6.5	SW
WSW	12	.9	1.9	3.2	1.4	.0	.0	7.4	3.6	WSW
W	13	.0	.9	.5	.0	.0	.0	1.4	2.9	W
WNW	14	.9	.0	.0	.0	.0	.0	.9	.9	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		8.3	9.7	15.3	47.2	18.5	.9	100.0	6.2	

100.0% DATA RECOVERED
30.0% 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/ 1/1996 - 7/31/1996
0 - 2400 (PST)

STABILITY CLASS D
3.5 - 4.5

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	.5	1.0	1.4	.5	.0	3.3	5.4	N
NNE	2	1.0	2.4	1.9	1.0	.0	.0	6.2	3.6	NNE
NE	3	1.0	1.9	1.9	.0	.0	.0	4.8	2.9	NE
ENE	4	1.9	.5	.0	.5	.0	.0	2.9	2.5	ENE
E	5	.0	.0	.5	.5	.5	.5	1.9	7.9	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	1.9	1.9	.5	.0	.0	4.3	3.9	SE
SSE	8	.0	.0	1.0	.5	.0	.0	1.4	4.6	SSE
S	9	1.0	.0	.0	.0	1.0	.0	1.9	5.6	S
SSW	10	2.4	1.9	1.4	9.6	2.4	.0	17.7	5.8	SSW
SW	11	4.3	3.8	6.2	26.3	3.3	.0	44.0	5.7	SW
WSW	12	1.9	.5	3.3	.0	.0	.0	5.7	3.1	WSW
W	13	.0	.0	.5	.0	.0	.0	.5	4.2	W
WNW	14	.5	.0	.0	.0	.0	.0	.5	1.4	WNW
NW	15	.0	1.0	.5	1.0	.0	.0	2.4	5.2	NW
NNW	16	.5	.5	.5	1.0	.0	.0	2.4	4.7	NNW
CALM		.0						.0		
TOTAL		14.4	14.8	20.6	42.1	7.7	.5	100.0	5.1	

100.0% DATA RECOVERED
28.1% 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/ 1/1996 - 8/31/1996
0 - 2400 (PST)

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	.6	.0	.0	.6	.0	1.1	5.8	N
NNE	2	.6	1.1	.0	.0	.0	.0	1.7	2.3	NNE
NE	3	.6	.6	.0	1.1	.0	.0	2.2	3.9	NE
ENE	4	.6	.0	.0	.0	.0	.0	.6	1.6	ENE
E	5	.0	1.7	.6	.0	.0	.0	2.2	3.3	E
ESE	6	.0	.6	.0	.0	.0	.0	.6	2.9	ESE
SE	7	.6	.0	.6	.0	.0	.0	1.1	3.4	SE
SSE	8	.6	.0	.0	2.2	.0	.0	2.8	5.7	SSE
S	9	.0	.6	.0	.6	.6	.0	1.7	6.7	S
SSW	10	3.3	4.4	2.2	17.8	5.0	.0	32.8	6.0	SSW
SW	11	1.1	6.7	10.0	16.7	11.1	.0	45.6	6.1	SW
WSW	12	.6	.6	1.7	.0	.0	.0	2.8	2.7	WSW
W	13	1.1	1.1	.0	.0	.0	.0	2.2	1.5	W
WNW	14	.0	.6	.6	.0	.0	.0	1.1	3.2	WNW
NW	15	.0	.6	.6	.0	.0	.0	1.1	3.2	NW
NNW	16	.0	.6	.0	.0	.0	.0	.6	2.3	NNW
CALM		.0						.0		
TOTAL		8.9	19.4	16.1	38.3	17.2	.0	100.0	5.5	

98.4% DATA RECOVERED
24.6% 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/ 1/1996 - 9/30/1996
0 - 2400 (PST)

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	1.4	1.4	1.4	.7	.0	.0	4.8	3.2	NNE
NE	3	.7	.7	.0	.0	.0	.0	1.4	2.1	NE
ENE	4	.0	.7	.0	.0	.0	.0	.7	2.9	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	.7	.0	.0	.0	.0	.0	.7	1.2	ESE
SE	7	.0	.7	2.7	.0	.0	.0	3.4	3.8	SE
SSE	8	.7	1.4	.0	.0	.0	.0	2.1	2.0	SSE
S	9	.7	.7	.0	.7	.0	.0	2.1	3.2	S
SSW	10	.0	.0	2.7	13.7	3.4	.7	20.5	7.4	SSW
SW	11	1.4	.7	12.3	30.1	4.8	.7	50.0	6.2	SW
WSW	12	1.4	.7	.7	1.4	.0	.0	4.1	3.7	WSW
W	13	.7	.7	1.4	.0	.0	.0	2.7	3.6	W
WNW	14	.0	.7	.0	1.4	.0	.0	2.1	5.3	WNW
NW	15	.7	1.4	.0	1.4	.0	.0	3.4	3.6	NW
NNW	16	.7	1.4	.0	.0	.0	.0	2.1	2.3	NNW
CALM		.0						.0		
TOTAL		8.9	11.0	21.2	49.3	8.2	1.4	100.0	5.6	

90.4% DATA RECOVERED
22.4% 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/ 1/1996 - 10/31/1996
0 - 2400 (PST)

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	.7	.7	1.4	2.8	1.4	.0	7.1	5.8	N
NNE	2	.0	.0	6.4	9.9	2.1	.0	18.4	6.0	NNE
NE	3	.7	2.8	2.8	2.1	.0	.0	8.5	4.1	NE
ENE	4	.0	4.3	1.4	3.5	.0	.0	9.2	4.1	ENE
E	5	1.4	1.4	.0	.0	.0	.0	2.8	1.7	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	1.4	.0	.0	.0	.0	.0	1.4	1.4	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.7	.0	.0	.0	.0	.0	.7	.7	S
SSW	10	.7	1.4	.7	6.4	.7	.0	9.9	5.9	SSW
SW	11	2.1	2.1	2.1	11.3	.7	.0	18.4	5.5	SW
WSW	12	1.4	.7	2.1	2.1	.0	.0	6.4	3.9	WSW
W	13	.7	.0	.7	.0	.0	.0	1.4	3.3	W
WNW	14	.7	3.5	1.4	.0	.0	.0	5.7	2.9	WNW
NW	15	.0	4.3	2.1	.0	.7	.0	7.1	3.6	NW
NNW	16	.0	.7	.7	.7	.7	.0	2.8	6.4	NNW
CALM		.0						.0		
TOTAL		10.6	22.0	22.0	39.0	6.4	.0	100.0	4.8	

84.1% DATA RECOVERED
22.5% 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/ 1/1996 - 11/30/1996
0 - 2400 (PST)

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	3.0	6.1	4.5	1.5	.0	15.2	5.4	N
NNE	2	.0	6.1	12.9	6.8	1.5	.0	27.3	4.6	NNE
NE	3	.8	6.8	3.8	.8	.0	.0	12.1	3.1	NE
ENE	4	1.5	4.5	3.0	.0	.0	.0	9.1	2.7	ENE
E	5	2.3	.8	1.5	.0	.0	.0	4.5	2.5	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	1.5	.0	.0	.0	.0	.0	1.5	1.2	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	3.0	3.0	.0	3.0	.8	.0	9.8	4.2	SSW
SW	11	2.3	1.5	2.3	3.8	3.0	.0	12.9	5.5	SW
WSW	12	2.3	3.0	.0	.0	.0	.0	5.3	2.1	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.8	.0	.0	.0	.0	.0	.8	1.3	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.8	.0	.8	.0	1.5	6.0	NNW
CALM		.0						.0		
TOTAL		14.4	28.8	30.3	18.9	7.6	.0	100.0	4.2	

75.1% DATA RECOVERED
24.4% 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/ 1/1996 - 12/31/1996
0 - 2400 (PST)

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	.0	.0	.0	.0	.0	NNE
NE	3	3.3	.0	.0	.0	.0	.0	3.3	1.2	NE
ENE	4	4.3	.0	.0	.0	.0	.0	4.3	1.4	ENE
E	5	1.1	.0	.0	.0	.0	.0	1.1	.8	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	1.1	.0	.0	.0	.0	1.1	2.6	SE
SSE	8	2.2	1.1	.0	.0	.0	.0	3.3	1.7	SSE
S	9	1.1	.0	1.1	.0	.0	.0	2.2	2.8	S
SSW	10	.0	.0	5.4	21.7	16.3	8.7	52.2	8.4	SSW
SW	11	1.1	5.4	7.6	4.3	1.1	.0	19.6	4.4	SW
WSW	12	1.1	1.1	2.2	2.2	.0	.0	6.5	4.3	WSW
W	13	1.1	.0	.0	.0	.0	.0	1.1	.8	W
WNW	14	.0	1.1	.0	.0	.0	.0	1.1	2.5	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	3.3	1.1	.0	.0	.0	4.3	3.0	NNW
CALM		.0						.0		
TOTAL		15.2	13.0	17.4	28.3	17.4	8.7	100.0	6.0	

58.7% 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

2 METER HEIGHT - Total Hours 1/ 1/1996 - 1/31/1996
0 - 2400 (PST)

STABILITY CLASS E
4.5 - 5.5

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	6.1	.0	.0	.0	.0	.0	6.1	1.2	N
NNE	2	3.0	.0	.0	.0	.0	.0	3.0	1.4	NNE
NE	3	6.1	.0	.0	.0	.0	.0	6.1	1.3	NE
ENE	4	3.0	.0	.0	.0	.0	.0	3.0	1.4	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	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	6.1	.0	.0	.0	.0	.0	6.1	1.1	S
SSW	10	9.1	3.0	.0	.0	.0	.0	12.1	1.4	SSW
SW	11	21.2	3.0	.0	.0	.0	.0	24.2	1.3	SW
WSW	12	6.1	6.1	.0	.0	.0	.0	12.1	1.8	WSW
W	13	12.1	.0	.0	.0	.0	.0	12.1	1.3	W
WNW	14	.0	3.0	.0	.0	.0	.0	3.0	2.1	WNW
NW	15	3.0	3.0	.0	.0	.0	.0	6.1	1.7	NW
NNW	16	6.1	.0	.0	.0	.0	.0	6.1	1.2	NNW
CALM		.0						.0		
TOTAL		81.8	18.2	.0	.0	.0	.0	100.0	1.4	

74.2% 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

2 METER HEIGHT - Total Hours

2/ 1/1996 - 2/29/1996
0 - 2400 (PST)

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	5.3	.0	.0	.0	.0	.0	5.3	1.3	N
NNE	2	2.6	.0	.0	.0	.0	.0	2.6	1.6	NNE
NE	3	2.6	.0	.0	.0	.0	.0	2.6	1.5	NE
ENE	4	5.3	.0	.0	.0	.0	.0	5.3	1.2	ENE
E	5	2.6	2.6	.0	.0	.0	.0	5.3	2.1	E
ESE	6	5.3	.0	.0	.0	.0	.0	5.3	.7	ESE
SE	7	2.6	.0	.0	.0	.0	.0	2.6	.9	SE
SSE	8	.0	2.6	.0	.0	.0	.0	2.6	1.9	SSE
S	9	2.6	2.6	.0	.0	.0	.0	5.3	1.5	S
SSW	10	10.5	7.9	.0	.0	.0	.0	18.4	1.7	SSW
SW	11	10.5	5.3	5.3	.0	.0	.0	21.1	2.4	SW
WSW	12	5.3	.0	2.6	.0	.0	.0	7.9	1.8	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	2.6	.0	.0	.0	.0	.0	2.6	1.2	WNW
NW	15	7.9	5.3	.0	.0	.0	.0	13.2	1.8	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0						.0		
TOTAL		65.8	26.3	7.9	.0	.0	.0	100.0	1.7	

84.9% DATA RECOVERED
6.4% 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 3/ 1/1996 - 3/31/1996
0 - 2400 (PST)

STABILITY CLASS E
4.5 - 5.5

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	3.4	3.4	.0	.0	.0	6.9	3.4	N
NNE	2	3.4	6.9	.0	.0	.0	.0	10.3	2.1	NNE
NE	3	.0	6.9	.0	.0	.0	.0	6.9	2.4	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	3.4	.0	.0	.0	.0	3.4	2.4	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	3.4	6.9	.0	.0	.0	.0	10.3	1.9	SSW
SW	11	6.9	6.9	.0	.0	.0	.0	13.8	2.0	SW
WSW	12	17.2	6.9	.0	.0	.0	.0	24.1	1.7	WSW
W	13	3.4	3.4	.0	.0	.0	.0	6.9	2.0	W
WNW	14	3.4	.0	.0	.0	.0	.0	3.4	1.2	WNW
NW	15	.0	6.9	.0	.0	.0	.0	6.9	2.2	NW
NNW	16	.0	3.4	3.4	.0	.0	.0	6.9	3.3	NNW
CALM		.0						.0		
TOTAL		37.9	55.2	6.9	.0	.0	.0	100.0	2.1	

82.7% DATA RECOVERED
4.7% 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

4/ 1/1996 - 4/30/1996
0 - 2400 (PST)

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	5.0	1.7	.0	.0	.0	6.7	3.2	N
NNE	2	1.7	5.0	1.7	.0	.0	.0	8.3	2.5	NNE
NE	3	.0	1.7	.0	.0	.0	.0	1.7	2.0	NE
ENE	4	.0	1.7	.0	.0	.0	.0	1.7	2.3	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	1.7	.0	.0	.0	.0	.0	1.7	1.4	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	5.0	.0	.0	.0	.0	.0	5.0	1.3	S
SSW	10	18.3	1.7	.0	.0	.0	.0	20.0	1.4	SSW
SW	11	8.3	11.7	5.0	.0	.0	.0	25.0	2.3	SW
WSW	12	1.7	.0	1.7	.0	.0	.0	3.3	2.5	WSW
W	13	10.0	1.7	1.7	.0	.0	.0	13.3	1.6	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	8.3	3.3	.0	.0	.0	11.7	2.7	NW
NNW	16	.0	1.7	.0	.0	.0	.0	1.7	3.1	NNW
CALM		.0						.0		
TOTAL		46.7	38.3	15.0	.0	.0	.0	100.0	2.1	

96.8% DATA RECOVERED
8.6% 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/ 1/1996 - 5/31/1996
0 - 2400 (PST)

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	2.2	.0	.0	.0	.0	2.2	2.5	N
NNE	2	6.5	2.2	2.2	.0	.0	.0	10.9	2.0	NNE
NE	3	6.5	.0	.0	.0	.0	.0	6.5	1.2	NE
ENE	4	4.3	2.2	.0	.0	.0	.0	6.5	1.6	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	2.2	SE
SSE	8	.0	2.2	.0	.0	.0	.0	2.2	2.2	SSE
S	9	2.2	2.2	2.2	.0	.0	.0	6.5	2.2	S
SSW	10	4.3	2.2	.0	.0	.0	.0	6.5	1.6	SSW
SW	11	8.7	8.7	.0	.0	.0	.0	17.4	1.7	SW
WSW	12	4.3	8.7	.0	.0	.0	.0	13.0	1.9	WSW
W	13	4.3	2.2	2.2	.0	.0	.0	8.7	2.0	W
WNW	14	4.3	2.2	.0	.0	.0	.0	6.5	1.5	WNW
NW	15	4.3	2.2	.0	.0	.0	.0	6.5	1.7	NW
NNW	16	.0	2.2	.0	.0	.0	.0	2.2	2.3	NNW
CALM		2.2						2.2		
TOTAL		52.2	41.3	6.5	.0	.0	.0	100.0	1.8	

100.0% 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

6/ 1/1996 - 6/30/1996
0 - 2400 (PST)

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	2.3	4.5	.0	.0	.0	.0	6.8	1.9	NNE
NE	3	2.3	4.5	.0	.0	.0	.0	6.8	1.7	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	2.3	.0	.0	.0	.0	2.3	2.1	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	.0	2.3	.0	.0	.0	2.3	3.6	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	6.8	2.3	4.5	.0	.0	.0	13.6	2.6	SSW
SW	11	4.5	20.5	6.8	.0	.0	.0	31.8	2.5	SW
WSW	12	6.8	4.5	.0	.0	.0	.0	11.4	1.8	WSW
W	13	15.9	2.3	.0	.0	.0	.0	18.2	1.2	W
WNW	14	.0	2.3	.0	.0	.0	.0	2.3	2.7	WNW
NW	15	2.3	.0	.0	.0	.0	.0	2.3	1.7	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		2.3						2.3		
TOTAL		43.2	43.2	13.6	.0	.0	.0	100.0	2.1	

100.0% DATA RECOVERED
6.1% 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/ 1/1996 - 7/31/1996
0 - 2400 (PST)

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	2.3	.0	.0	.0	.0	2.3	2.3	N
NNE	2	2.3	4.7	.0	.0	.0	.0	7.0	1.9	NNE
NE	3	2.3	.0	.0	.0	.0	.0	2.3	1.7	NE
ENE	4	7.0	7.0	.0	.0	.0	.0	14.0	1.8	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	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	2.3	.0	.0	.0	.0	2.3	2.5	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	11.6	4.7	2.3	.0	.0	.0	18.6	2.0	SSW
SW	11	14.0	14.0	7.0	.0	.0	.0	34.9	2.1	SW
WSW	12	9.3	.0	.0	.0	.0	.0	9.3	.9	WSW
W	13	2.3	.0	.0	.0	.0	.0	2.3	.8	W
WNW	14	4.7	.0	.0	.0	.0	.0	4.7	1.7	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		2.3						2.3		
TOTAL		55.8	34.9	9.3	.0	.0	.0	100.0	1.8	

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 8/ 1/1996 - 8/31/1996
0 - 2400 (PST)

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	3.8	1.9	1.9	.0	.0	.0	7.5	2.3	NNE
NE	3	7.5	.0	.0	.0	.0	.0	7.5	1.2	NE
ENE	4	.0	1.9	.0	.0	.0	.0	1.9	2.4	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	1.9	.0	.0	.0	.0	.0	1.9	.6	ESE
SE	7	3.8	.0	.0	.0	.0	.0	3.8	1.3	SE
SSE	8	3.8	1.9	.0	.0	.0	.0	5.7	1.7	SSE
S	9	1.9	.0	.0	.0	.0	.0	1.9	1.2	S
SSW	10	3.8	7.5	.0	.0	.0	.0	11.3	2.2	SSW
SW	11	13.2	17.0	5.7	.0	.0	.0	35.8	2.2	SW
WSW	12	9.4	1.9	.0	.0	.0	.0	11.3	1.5	WSW
W	13	1.9	1.9	1.9	.0	.0	.0	5.7	2.3	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	1.9	.0	.0	.0	.0	1.9	2.4	NW
NNW	16	.0	3.8	.0	.0	.0	.0	3.8	2.4	NNW
CALM		.0						.0		
TOTAL		50.9	39.6	9.4	.0	.0	.0	100.0	2.0	

98.4% DATA RECOVERED
7.2% 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/ 1/1996 - 9/30/1996
0 - 2400 (PST)

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	5.2	1.3	2.6	.0	.0	.0	9.1	2.2	N
NNE	2	.0	3.9	2.6	.0	.0	.0	6.5	3.1	NNE
NE	3	3.9	.0	.0	.0	.0	.0	3.9	1.3	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	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	1.3	.0	.0	.0	.0	.0	1.3	1.6	SE
SSE	8	1.3	1.3	.0	.0	.0	.0	2.6	1.5	SSE
S	9	1.3	1.3	.0	.0	.0	.0	2.6	1.4	S
SSW	10	3.9	6.5	1.3	.0	.0	.0	11.7	2.2	SSW
SW	11	11.7	9.1	.0	.0	.0	.0	20.8	1.8	SW
WSW	12	6.5	10.4	1.3	.0	.0	.0	18.2	2.1	WSW
W	13	6.5	3.9	.0	.0	.0	.0	10.4	1.6	W
WNW	14	5.2	.0	.0	.0	.0	.0	5.2	1.3	WNW
NW	15	2.6	.0	.0	.0	.0	.0	2.6	1.0	NW
NNW	16	3.9	1.3	.0	.0	.0	.0	5.2	1.4	NNW
CALM		.0						.0		
TOTAL		53.2	39.0	7.8	.0	.0	.0	100.0	1.9	

90.4% DATA RECOVERED
11.8% 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 10/ 1/1996 - 10/31/1996
0 - 2400 (PST)

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	2.3	11.4	.0	.0	.0	.0	13.6	2.6	N
NNE	2	.0	2.3	2.3	.0	.0	.0	4.5	3.3	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	.0	2.3	.0	.0	.0	.0	2.3	2.1	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	2.3	2.3	.0	.0	.0	.0	4.5	1.5	SE
SSE	8	4.5	2.3	.0	.0	.0	.0	6.8	1.2	SSE
S	9	9.1	2.3	.0	.0	.0	.0	11.4	1.4	S
SSW	10	.0	4.5	.0	.0	.0	.0	4.5	2.5	SSW
SW	11	2.3	6.8	2.3	.0	.0	.0	11.4	2.2	SW
WSW	12	6.8	4.5	4.5	.0	.0	.0	15.9	2.4	WSW
W	13	2.3	2.3	.0	.0	.0	.0	4.5	2.0	W
WNW	14	6.8	2.3	.0	.0	.0	.0	9.1	1.8	WNW
NW	15	2.3	4.5	.0	.0	.0	.0	6.8	2.1	NW
NNW	16	2.3	.0	.0	.0	.0	.0	2.3	1.6	NNW
CALM		2.3						2.3		
TOTAL		43.2	47.7	9.1	.0	.0	.0	100.0	2.0	

84.1% DATA RECOVERED
7.0% 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/ 1/1996 - 11/30/1996
0 - 2400 (PST)

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	4.5	.0	.0	.0	.0	4.5	2.5	N
NNE	2	.0	6.8	6.8	.0	.0	.0	13.6	3.1	NNE
NE	3	.0	4.5	.0	.0	.0	.0	4.5	2.7	NE
ENE	4	2.3	2.3	.0	.0	.0	.0	4.5	1.7	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	.0	2.3	.0	.0	.0	.0	2.3	2.5	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	2.3	.0	.0	.0	.0	2.3	2.7	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	11.4	.0	2.3	.0	.0	.0	13.6	1.5	SSW
SW	11	13.6	11.4	.0	.0	.0	.0	25.0	1.7	SW
WSW	12	.0	4.5	.0	.0	.0	.0	4.5	2.4	WSW
W	13	4.5	2.3	.0	.0	.0	.0	6.8	1.8	W
WNW	14	6.8	.0	.0	.0	.0	.0	6.8	1.3	WNW
NW	15	4.5	.0	.0	.0	.0	.0	4.5	1.7	NW
NNW	16	2.3	4.5	.0	.0	.0	.0	6.8	1.9	NNW
CALM		.0						.0		
TOTAL		45.5	45.5	9.1	.0	.0	.0	100.0	2.0	

75.1% 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

2 METER HEIGHT - Total Hours 12/ 1/1996 - 12/31/1996
0 - 2400 (PST)

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	4.8	.0	.0	.0	.0	.0	4.8	1.3	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	7.1	.0	.0	.0	.0	.0	7.1	1.1	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	7.1	.0	.0	.0	.0	.0	7.1	1.1	ESE
SE	7	2.4	.0	.0	.0	.0	.0	2.4	1.2	SE
SSE	8	2.4	2.4	.0	.0	.0	.0	4.8	1.9	SSE
S	9	4.8	2.4	.0	.0	.0	.0	7.1	1.1	S
SSW	10	4.8	2.4	.0	.0	.0	.0	7.1	1.6	SSW
SW	11	14.3	2.4	7.1	.0	.0	.0	23.8	2.0	SW
WSW	12	4.8	4.8	.0	.0	.0	.0	9.5	2.1	WSW
W	13	.0	4.8	.0	.0	.0	.0	4.8	2.1	W
WNW	14	.0	4.8	.0	.0	.0	.0	4.8	1.9	WNW
NW	15	9.5	2.4	.0	.0	.0	.0	11.9	1.5	NW
NNW	16	4.8	.0	.0	.0	.0	.0	4.8	1.1	NNW
CALM		.0						.0		
TOTAL		66.7	26.2	7.1	.0	.0	.0	100.0	1.6	

58.7% DATA RECOVERED
9.6% 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 1/ 1/1996 - 1/31/1996
0 - 2400 (PST)

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	4.6	.7	.0	.0	.0	.0	5.3	1.1	N
NNE	2	6.7	.0	.0	.0	.0	.0	6.7	1.1	NNE
NE	3	6.0	.0	.0	.0	.0	.0	6.0	1.1	NE
ENE	4	5.7	.4	.0	.0	.0	.0	6.0	1.0	ENE
E	5	2.5	.0	.0	.0	.0	.0	2.5	1.1	E
ESE	6	3.5	.0	.0	.0	.0	.0	3.5	1.0	ESE
SE	7	2.8	.0	.0	.0	.0	.0	2.8	.9	SE
SSE	8	3.5	.0	.0	.0	.0	.0	3.5	1.0	SSE
S	9	3.2	.0	.0	.0	.0	.0	3.2	.8	S
SSW	10	11.7	.0	.0	.0	.0	.0	11.7	1.1	SSW
SW	11	13.1	.4	.0	.0	.0	.0	13.5	1.0	SW
WSW	12	7.1	.0	.0	.0	.0	.0	7.1	1.0	WSW
W	13	8.5	.0	.0	.0	.0	.0	8.5	1.1	W
WNW	14	7.4	.0	.0	.0	.0	.0	7.4	1.1	WNW
NW	15	4.6	1.1	.0	.0	.0	.0	5.7	1.4	NW
NNW	16	4.3	.4	.0	.0	.0	.0	4.6	1.0	NNW
CALM		1.8						1.8		
TOTAL		97.2	2.8	.0	.0	.0	.0	100.0	1.0	

74.2% DATA RECOVERED
51.1% 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 2/ 1/1996 - 2/29/1996
0 - 2400 (PST)

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	8.1	.4	.0	.0	.0	.0	8.4	1.1	N
NNE	2	5.5	.0	.0	.0	.0	.0	5.5	.9	NNE
NE	3	8.4	.0	.0	.0	.0	.0	8.4	1.0	NE
ENE	4	2.6	.0	.0	.0	.0	.0	2.6	1.0	ENE
E	5	4.4	.0	.0	.0	.0	.0	4.4	.9	E
ESE	6	2.2	.0	.0	.0	.0	.0	2.2	.9	ESE
SE	7	2.2	.0	.0	.0	.0	.0	2.2	.8	SE
SSE	8	5.1	.0	.0	.0	.0	.0	5.1	1.0	SSE
S	9	7.3	.0	.0	.0	.0	.0	7.3	.8	S
SSW	10	8.8	.4	.0	.0	.0	.0	9.2	1.0	SSW
SW	11	10.3	.0	.0	.0	.0	.0	10.3	1.1	SW
WSW	12	7.3	.0	.0	.0	.0	.0	7.3	1.1	WSW
W	13	6.2	.0	.0	.0	.0	.0	6.2	.9	W
WNW	14	7.7	.0	.0	.0	.0	.0	7.7	1.0	WNW
NW	15	4.8	.4	.0	.0	.0	.0	5.1	1.0	NW
NNW	16	5.1	.4	.0	.0	.0	.0	5.5	1.0	NNW
CALM		2.6						2.6		
TOTAL		98.5	1.5	.0	.0	.0	.0	100.0	1.0	

84.9% 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 - Total Hours

3/ 1/1996 - 3/31/1996
0 - 2400 (PST)

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	7.2	.0	.0	.0	.0	.0	7.2	1.0	N
NNE	2	7.2	.0	.0	.0	.0	.0	7.2	1.0	NNE
NE	3	6.8	.8	.0	.0	.0	.0	7.6	1.2	NE
ENE	4	3.6	.8	.0	.0	.0	.0	4.4	1.3	ENE
E	5	4.0	.4	.0	.0	.0	.0	4.4	1.1	E
ESE	6	2.0	.0	.0	.0	.0	.0	2.0	.9	ESE
SE	7	3.2	.0	.0	.0	.0	.0	3.2	1.0	SE
SSE	8	4.0	.0	.0	.0	.0	.0	4.0	.9	SSE
S	9	2.0	.0	.0	.0	.0	.0	2.0	1.0	S
SSW	10	8.8	.4	.0	.0	.0	.0	9.2	1.1	SSW
SW	11	14.4	.4	.0	.0	.0	.0	14.8	1.0	SW
WSW	12	6.8	.0	.0	.0	.0	.0	6.8	.8	WSW
W	13	8.4	.0	.0	.0	.0	.0	8.4	.9	W
WNW	14	4.4	.0	.0	.0	.0	.0	4.4	1.2	WNW
NW	15	5.6	.4	.0	.0	.0	.0	6.0	1.1	NW
NNW	16	7.6	.4	.0	.0	.0	.0	8.0	1.1	NNW
CALM		.4						.4		
TOTAL		96.4	3.6	.0	.0	.0	.0	100.0	1.0	

82.7% DATA RECOVERED
40.7% 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

4/ 1/1996 - 4/30/1996
0 - 2400 (PST)

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	1.1	.0	.0	.0	.0	7.0	1.3	N
NNE	2	1.6	1.1	.0	.0	.0	.0	2.7	1.4	NNE
NE	3	6.4	.5	.0	.0	.0	.0	7.0	1.1	NE
ENE	4	3.2	.0	.0	.0	.0	.0	3.2	1.1	ENE
E	5	1.6	.0	.0	.0	.0	.0	1.6	.9	E
ESE	6	2.1	.0	.0	.0	.0	.0	2.1	1.1	ESE
SE	7	1.1	.0	.0	.0	.0	.0	1.1	1.3	SE
SSE	8	3.2	.0	.0	.0	.0	.0	3.2	1.1	SSE
S	9	4.8	1.1	.0	.0	.0	.0	5.9	1.2	S
SSW	10	13.9	.5	.0	.0	.0	.0	14.4	1.2	SSW
SW	11	14.4	1.1	.0	.0	.0	.0	15.5	1.1	SW
WSW	12	8.6	1.1	.0	.0	.0	.0	9.6	1.1	WSW
W	13	5.3	.0	.0	.0	.0	.0	5.3	1.1	W
WNW	14	7.0	.0	.0	.0	.0	.0	7.0	1.0	WNW
NW	15	7.0	.5	.0	.0	.0	.0	7.5	1.1	NW
NNW	16	4.8	.5	.0	.0	.0	.0	5.3	1.2	NNW
CALM		1.6						1.6		
TOTAL		92.5	7.5	.0	.0	.0	.0	100.0	1.1	

96.8% DATA RECOVERED
26.8% 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

5/ 1/1996 - 5/31/1996
0 - 2400 (PST)

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	5.2	.5	.0	.0	.0	.0	5.6	1.2	N
NNE	2	6.6	.5	.0	.0	.0	.0	7.0	1.2	NNE
NE	3	6.6	.0	.0	.0	.0	.0	6.6	1.2	NE
ENE	4	6.6	1.4	.0	.0	.0	.0	8.0	1.3	ENE
E	5	6.1	.0	.0	.0	.0	.0	6.1	1.1	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	1.9	.0	.0	.0	.0	.0	1.9	1.0	SE
SSE	8	2.3	.0	.0	.0	.0	.0	2.3	.8	SSE
S	9	3.3	.0	.0	.0	.0	.0	3.3	1.1	S
SSW	10	6.1	.5	.0	.0	.0	.0	6.6	1.1	SSW
SW	11	14.1	.0	.0	.0	.0	.0	14.1	1.0	SW
WSW	12	11.7	.9	.0	.0	.0	.0	12.7	1.2	WSW
W	13	8.5	.0	.0	.0	.0	.0	8.5	1.0	W
WNW	14	7.0	.0	.0	.0	.0	.0	7.0	1.2	WNW
NW	15	4.2	.0	.0	.0	.0	.0	4.2	1.1	NW
NNW	16	5.2	.0	.0	.0	.0	.0	5.2	1.0	NNW
CALM		.9						.9		
TOTAL		96.2	3.8	.0	.0	.0	.0	100.0	1.1	

100.0% DATA RECOVERED
28.6% 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 6/ 1/1996 - 6/30/1996
0 - 2400 (PST)

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	4.5	.0	.0	.0	.0	.0	4.5	1.0	N
NNE	2	8.6	.5	.0	.0	.0	.0	9.0	1.1	NNE
NE	3	5.9	.5	.0	.0	.0	.0	6.3	1.1	NE
ENE	4	4.5	.0	.0	.0	.0	.0	4.5	1.2	ENE
E	5	2.3	.0	.0	.0	.0	.0	2.3	.9	E
ESE	6	2.3	.0	.0	.0	.0	.0	2.3	.9	ESE
SE	7	2.7	.0	.0	.0	.0	.0	2.7	1.1	SE
SSE	8	2.3	.0	.0	.0	.0	.0	2.3	.8	SSE
S	9	3.6	.9	.0	.0	.0	.0	4.5	1.1	S
SSW	10	9.9	.5	.0	.0	.0	.0	10.4	1.1	SSW
SW	11	14.0	.9	.0	.0	.0	.0	14.9	1.1	SW
WSW	12	9.5	.5	.0	.0	.0	.0	9.9	1.1	WSW
W	13	7.7	.9	.0	.0	.0	.0	8.6	1.1	W
WNW	14	7.7	.0	.0	.0	.0	.0	7.7	1.2	WNW
NW	15	3.6	.5	.0	.0	.0	.0	4.1	1.2	NW
NNW	16	5.0	.0	.0	.0	.0	.0	5.0	1.1	NNW
CALM		1.4						1.4		
TOTAL		95.0	5.0	.0	.0	.0	.0	100.0	1.1	

100.0% DATA RECOVERED
30.8% 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/ 1/1996 - 7/31/1996
0 - 2400 (PST)

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	.4	.0	.0	.0	.0	7.3	1.1	N
NNE	2	4.8	.4	.0	.0	.0	.0	5.2	1.1	NNE
NE	3	6.9	.4	.0	.0	.0	.0	7.3	1.1	NE
ENE	4	3.6	.4	.0	.0	.0	.0	4.0	1.2	ENE
E	5	3.2	.0	.0	.0	.0	.0	3.2	1.1	E
ESE	6	2.0	.4	.0	.0	.0	.0	2.4	1.0	ESE
SE	7	2.8	.0	.0	.0	.0	.0	2.8	1.0	SE
SSE	8	2.4	.8	.0	.0	.0	.0	3.2	1.2	SSE
S	9	3.2	.0	.0	.0	.0	.0	3.2	.9	S
SSW	10	10.5	.4	.0	.0	.0	.0	10.9	1.1	SSW
SW	11	9.3	.8	.0	.0	.0	.0	10.1	1.0	SW
WSW	12	10.1	.8	.0	.0	.0	.0	10.9	1.2	WSW
W	13	7.3	.0	.0	.0	.0	.0	7.3	1.2	W
WNW	14	6.0	.0	.0	.0	.0	.0	6.0	.9	WNW
NW	15	4.4	1.6	.0	.0	.0	.0	6.0	1.3	NW
NNW	16	5.6	1.6	.0	.0	.0	.0	7.3	1.5	NNW
CALM		2.8						2.8		
TOTAL		91.9	8.1	.0	.0	.0	.0	100.0	1.1	

100.0% DATA RECOVERED
33.3% 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

8/ 1/1996 - 8/31/1996
0 - 2400 (PST)

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	4.6	.0	.0	.0	.0	.0	4.6	1.0	N
NNE	2	11.1	1.1	.0	.0	.0	.0	12.2	1.1	NNE
NE	3	6.1	.8	.0	.0	.0	.0	6.9	1.2	NE
ENE	4	4.6	.0	.0	.0	.0	.0	4.6	1.0	ENE
E	5	2.3	.4	.0	.0	.0	.0	2.7	1.4	E
ESE	6	2.3	.0	.0	.0	.0	.0	2.3	1.0	ESE
SE	7	2.3	.0	.0	.0	.0	.0	2.3	.9	SE
SSE	8	4.2	.0	.0	.0	.0	.0	4.2	.9	SSE
S	9	5.3	.0	.0	.0	.0	.0	5.3	1.0	S
SSW	10	8.4	.4	.0	.0	.0	.0	8.8	1.0	SSW
SW	11	9.2	.0	.0	.0	.0	.0	9.2	.9	SW
WSW	12	7.6	.0	.0	.0	.0	.0	7.6	1.0	WSW
W	13	5.7	.0	.0	.0	.0	.0	5.7	1.0	W
WNW	14	6.9	.4	.0	.0	.0	.0	7.3	1.1	WNW
NW	15	6.1	.0	.0	.0	.0	.0	6.1	.9	NW
NNW	16	8.0	.4	.0	.0	.0	.0	8.4	1.1	NNW
CALM		1.9						1.9		
TOTAL		96.6	3.4	.0	.0	.0	.0	100.0	1.0	

98.4% DATA RECOVERED
35.8% 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

9/ 1/1996 - 9/30/1996
0 - 2400 (PST)

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	4.9	1.3	.0	.0	.0	.0	6.2	1.2	N
NNE	2	8.4	.9	.0	.0	.0	.0	9.3	1.1	NNE
NE	3	6.6	.4	.0	.0	.0	.0	7.1	1.0	NE
ENE	4	4.4	.4	.0	.0	.0	.0	4.9	1.1	ENE
E	5	3.5	.0	.0	.0	.0	.0	3.5	1.0	E
ESE	6	.9	.0	.0	.0	.0	.0	.9	.7	ESE
SE	7	3.1	.0	.0	.0	.0	.0	3.1	.8	SE
SSE	8	2.2	.0	.0	.0	.0	.0	2.2	.9	SSE
S	9	6.2	.0	.0	.0	.0	.0	6.2	1.0	S
SSW	10	7.1	.0	.0	.0	.0	.0	7.1	1.1	SSW
SW	11	7.1	.4	.0	.0	.0	.0	7.5	1.0	SW
WSW	12	12.4	.0	.0	.0	.0	.0	12.4	.9	WSW
W	13	6.2	.4	.0	.0	.0	.0	6.6	1.0	W
WNW	14	4.9	.4	.0	.0	.0	.0	5.3	1.1	WNW
NW	15	7.1	.0	.0	.0	.0	.0	7.1	1.0	NW
NNW	16	7.1	.0	.0	.0	.0	.0	7.1	1.1	NNW
CALM		3.5						3.5		
TOTAL		95.6	4.4	.0	.0	.0	.0	100.0	1.0	

90.4% DATA RECOVERED
34.7% 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 10/ 1/1996 - 10/31/1996
0 - 2400 (PST)

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	.7	.0	.0	.0	.0	4.5	1.2	N
NNE	2	4.5	.0	.0	.0	.0	.0	4.5	1.0	NNE
NE	3	7.1	.4	.0	.0	.0	.0	7.4	1.0	NE
ENE	4	3.3	.7	.0	.0	.0	.0	4.1	1.1	ENE
E	5	1.5	.0	.0	.0	.0	.0	1.5	1.3	E
ESE	6	2.2	.0	.0	.0	.0	.0	2.2	.8	ESE
SE	7	2.2	.0	.0	.0	.0	.0	2.2	1.0	SE
SSE	8	1.5	.0	.0	.0	.0	.0	1.5	.8	SSE
S	9	5.6	.4	.0	.0	.0	.0	5.9	.9	S
SSW	10	11.2	.0	.0	.0	.0	.0	11.2	.9	SSW
SW	11	12.3	.4	.0	.0	.0	.0	12.6	1.0	SW
WSW	12	10.8	.4	.0	.0	.0	.0	11.2	1.0	WSW
W	13	6.7	.7	.0	.0	.0	.0	7.4	.9	W
WNW	14	7.4	.7	.0	.0	.0	.0	8.2	1.1	WNW
NW	15	5.2	.4	.0	.0	.0	.0	5.6	1.2	NW
NNW	16	5.2	.4	.0	.0	.0	.0	5.6	1.1	NNW
CALM		4.5						4.5		
TOTAL		94.8	5.2	.0	.0	.0	.0	100.0	1.0	

84.1% DATA RECOVERED
43.0% 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/ 1/1996 - 11/30/1996
0 - 2400 (PST)

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	.9	.0	.0	.0	.0	5.2	1.3	N
NNE	2	6.1	.9	.0	.0	.0	.0	7.0	1.1	NNE
NE	3	3.1	.4	.0	.0	.0	.0	3.5	1.2	NE
ENE	4	1.7	.4	.0	.0	.0	.0	2.2	1.3	ENE
E	5	1.7	.0	.0	.0	.0	.0	1.7	1.1	E
ESE	6	2.6	.0	.0	.0	.0	.0	2.6	.9	ESE
SE	7	1.7	.0	.0	.0	.0	.0	1.7	1.0	SE
SSE	8	3.9	.0	.0	.0	.0	.0	3.9	.8	SSE
S	9	8.3	.0	.0	.0	.0	.0	8.3	1.0	S
SSW	10	13.1	1.7	.0	.0	.0	.0	14.8	1.2	SSW
SW	11	11.4	.9	.0	.0	.0	.0	12.2	1.1	SW
WSW	12	7.4	.0	.0	.0	.0	.0	7.4	1.0	WSW
W	13	7.9	.0	.0	.0	.0	.0	7.9	1.0	W
WNW	14	7.0	.4	.0	.0	.0	.0	7.4	1.1	WNW
NW	15	3.5	.4	.0	.0	.0	.0	3.9	1.1	NW
NNW	16	7.4	.4	.0	.0	.0	.0	7.9	1.1	NNW
CALM		2.2						2.2		
TOTAL		93.4	6.6	.0	.0	.0	.0	100.0	1.1	

75.1% DATA RECOVERED
42.3% 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/ 1/1996 - 12/31/1996
0 - 2400 (PST)

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	7.7	.5	.0	.0	.0	.0	8.1	1.2	N
NNE	2	3.8	.0	.0	.0	.0	.0	3.8	1.1	NNE
NE	3	4.3	.5	.0	.0	.0	.0	4.8	1.1	NE
ENE	4	5.7	.0	.0	.0	.0	.0	5.7	1.0	ENE
E	5	3.8	1.0	.0	.0	.0	.0	4.8	1.2	E
ESE	6	7.7	.5	.0	.0	.0	.0	8.1	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	.8	SSE
S	9	5.7	.0	.0	.0	.0	.0	5.7	1.0	S
SSW	10	8.1	.5	.0	.0	.0	.0	8.6	1.2	SSW
SW	11	6.7	.5	.0	.0	.0	.0	7.2	1.2	SW
WSW	12	7.7	.5	.0	.0	.0	.0	8.1	1.1	WSW
W	13	8.6	.0	.0	.0	.0	.0	8.6	1.1	W
WNW	14	5.7	.0	.0	.0	.0	.0	5.7	1.1	WNW
NW	15	4.3	1.0	.0	.0	.0	.0	5.3	1.1	NW
NNW	16	7.7	1.0	.0	.0	.0	.0	8.6	1.1	NNW
CALM		.0						.0		
TOTAL		94.3	5.7	.0	.0	.0	.0	100.0	1.1	

58.7% DATA RECOVERED
47.8% 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/ 1/1996 - 1/31/1996
0 - 2400 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.0	.9	1.1	.7	.4	.0	7.1	2.8	N
NNE	2	3.4	.9	.7	1.1	.2	.0	6.3	2.8	NNE
NE	3	6.7	1.3	.5	1.1	.0	.0	9.6	2.0	NE
ENE	4	5.3	.7	.2	.2	.0	.0	6.3	1.4	ENE
E	5	3.6	.9	.0	.0	.0	.0	4.5	1.2	E
ESE	6	3.4	.2	.0	.0	.0	.0	3.6	1.1	ESE
SE	7	3.1	.7	.0	.0	.0	.0	3.8	1.2	SE
SSE	8	3.1	.2	.0	.0	.0	.0	3.3	1.0	SSE
S	9	3.8	1.1	.5	.0	.0	.0	5.4	1.6	S
SSW	10	4.3	2.4	.7	.5	.5	.2	8.7	2.9	SSW
SW	11	7.4	2.5	1.3	.2	.4	.9	12.7	2.8	SW
WSW	12	4.3	1.3	.0	.2	.2	.0	6.0	1.9	WSW
W	13	3.6	.5	.0	.0	.0	.0	4.2	1.3	W
WNW	14	3.4	1.1	.2	.0	.0	.0	4.7	1.5	WNW
NW	15	2.7	1.3	.0	.0	.4	.2	4.5	2.5	NW
NNW	16	3.6	1.1	.5	.7	.4	.7	7.1	3.7	NNW
CALM		2.2						2.2		
TOTAL		68.1	17.0	5.8	4.7	2.4	2.0	100.0	2.1	

74.2% 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 2/ 1/1996 - 2/29/1996
0 - 2400 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.8	1.2	.0	.0	.0	.0	5.0	1.5	N
NNE	2	4.1	.7	.0	.0	.0	.0	4.8	1.2	NNE
NE	3	3.1	.5	.0	.0	.0	.0	3.6	1.3	NE
ENE	4	3.3	.3	.3	.0	.0	.0	3.9	1.5	ENE
E	5	2.9	.5	1.0	.0	.0	.0	4.5	2.0	E
ESE	6	3.4	.0	.0	.0	.0	.0	3.4	1.0	ESE
SE	7	3.3	.2	.0	.0	.0	.0	3.4	1.1	SE
SSE	8	3.4	.7	.0	.0	.0	.0	4.1	1.3	SSE
S	9	5.5	.9	.5	.0	.0	.0	6.9	1.4	S
SSW	10	5.1	3.3	1.5	1.4	.9	1.7	13.9	4.2	SSW
SW	11	6.9	6.0	2.2	1.5	1.0	1.2	18.9	3.5	SW
WSW	12	4.5	1.2	1.2	.3	.2	.0	7.4	2.3	WSW
W	13	3.3	.7	.0	.0	.0	.0	3.9	1.3	W
WNW	14	5.0	.3	.0	.2	.0	.0	5.5	1.3	WNW
NW	15	2.7	1.2	.2	.0	.0	.0	4.1	1.5	NW
NNW	16	2.2	.0	.0	.0	.0	.0	2.2	1.1	NNW
CALM		4.5						4.5		
TOTAL		66.9	17.7	7.0	3.4	2.1	2.9	100.0	2.2	

83.8% 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/ 1/1996 - 3/31/1996
0 - 2400 (PST)

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	2.9	1.3	2.6	.7	.7	.3	8.5	3.8	N
NNE	2	2.9	2.1	2.0	2.3	.2	.3	9.8	3.9	NNE
NE	3	2.6	1.1	1.1	.7	.0	.2	5.7	2.9	NE
ENE	4	1.8	1.6	.2	.0	.0	.0	3.6	1.9	ENE
E	5	2.3	.8	.0	.0	.0	.0	3.1	1.5	E
ESE	6	3.3	.8	.0	.0	.0	.0	4.1	1.4	ESE
SE	7	1.8	.8	.0	.0	.0	.0	2.6	1.5	SE
SSE	8	4.1	.0	.0	.0	.0	.0	4.1	1.1	SSE
S	9	2.9	1.3	.0	.0	.0	.0	4.2	1.5	S
SSW	10	3.9	2.4	.2	.7	.7	2.3	10.1	5.0	SSW
SW	11	5.9	2.8	1.6	4.4	1.8	.2	16.6	4.1	SW
WSW	12	2.8	1.1	1.1	.3	.2	.0	5.5	2.6	WSW
W	13	4.7	.3	.3	.0	.2	.0	5.5	1.7	W
WNW	14	2.9	.8	.0	.2	.0	.0	3.9	1.5	WNW
NW	15	2.3	1.1	.2	.8	.3	.3	5.0	3.7	NW
NNW	16	3.1	1.6	.7	.7	.2	.0	6.2	2.6	NNW
CALM		1.6						1.6		
TOTAL		51.7	20.2	9.9	10.6	4.1	3.6	100.0	3.0	

82.7% 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

4/ 1/1996 - 4/30/1996
0 - 2400 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.0	1.3	2.4	1.6	.0	.0	6.3	4.0	N
NNE	2	1.0	1.1	2.2	2.9	.9	.0	8.0	5.1	NNE
NE	3	2.4	1.1	1.7	2.2	.7	.0	8.2	4.2	NE
ENE	4	1.7	.7	.6	.4	.0	.0	3.4	2.5	ENE
E	5	1.0	.4	.4	.0	.0	.0	1.9	2.1	E
ESE	6	1.1	.7	.0	.0	.0	.0	1.9	1.3	ESE
SE	7	2.0	1.0	.3	.0	.0	.0	3.3	1.7	SE
SSE	8	2.0	.6	.0	.0	.0	.0	2.6	1.4	SSE
S	9	2.2	1.0	.1	.0	.0	.1	3.4	2.1	S
SSW	10	4.2	2.6	1.4	1.3	1.7	3.4	14.6	5.8	SSW
SW	11	6.0	2.9	2.0	4.9	2.6	.9	19.2	4.9	SW
WSW	12	3.9	1.6	.9	1.1	.1	.0	7.6	2.7	WSW
W	13	1.7	.6	.0	.1	.1	.0	2.6	2.0	W
WNW	14	1.7	.4	.4	.4	.1	.0	3.2	2.9	WNW
NW	15	1.6	1.7	1.6	1.3	.0	.0	6.2	3.7	NW
NNW	16	1.3	1.4	1.1	1.1	.1	.0	5.2	3.7	NNW
CALM		2.4						2.4		
TOTAL		37.3	19.2	15.2	17.4	6.5	4.4	100.0	3.9	

96.8% 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/ 1/1996 - 5/31/1996
0 - 2400 (PST)

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	2.3	.9	.4	1.7	.8	.1	6.3	4.4	N
NNE	2	1.9	1.3	.9	.9	.3	.1	5.5	3.6	NNE
NE	3	1.9	.9	.4	.5	.3	.0	4.0	3.1	NE
ENE	4	2.6	1.1	.0	.1	.1	.0	3.9	2.0	ENE
E	5	2.6	.7	.1	.3	.0	.0	3.6	1.9	E
ESE	6	1.5	.9	.1	.0	.0	.0	2.6	1.7	ESE
SE	7	1.2	.4	.3	.0	.0	.0	1.9	1.7	SE
SSE	8	1.2	.3	.3	.0	.0	.0	1.7	1.8	SSE
S	9	1.5	.4	.3	.0	.0	.0	2.2	1.7	S
SSW	10	2.6	2.0	1.5	2.3	2.0	2.0	12.4	6.0	SSW
SW	11	3.8	3.6	7.1	8.6	2.0	1.3	26.5	5.2	SW
WSW	12	3.4	2.4	3.5	2.8	.1	.0	12.2	3.6	WSW
W	13	2.6	.7	.8	.3	.0	.0	4.3	2.3	W
WNW	14	1.5	1.1	.8	.3	.0	.0	3.6	2.6	WNW
NW	15	1.1	.9	1.1	.3	.1	.0	3.5	3.1	NW
NNW	16	1.7	.3	.5	.1	.1	.1	3.0	3.0	NNW
CALM		2.8						2.8		
TOTAL		35.9	18.0	18.1	18.3	5.9	3.8	100.0	3.8	

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

8 METER HEIGHT - Total Hours

6/ 1/1996 - 6/30/1996
0 - 2400 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.7	.3	.0	.3	.0	.0	2.2	1.9	N
NNE	2	1.8	1.5	.0	.0	.0	.0	3.3	1.8	NNE
NE	3	2.4	1.7	.3	.0	.0	.0	4.3	1.7	NE
ENE	4	2.8	.3	.0	.0	.0	.0	3.1	1.2	ENE
E	5	2.5	.7	.0	.0	.0	.0	3.2	1.4	E
ESE	6	1.1	.8	.0	.0	.0	.0	1.9	1.6	ESE
SE	7	2.2	.8	.4	.0	.0	.0	3.5	1.8	SE
SSE	8	1.5	1.0	.3	.0	.0	.0	2.8	2.0	SSE
S	9	1.9	.4	.6	.1	.0	.0	3.1	2.0	S
SSW	10	3.9	1.9	1.5	3.1	2.8	1.0	14.2	5.1	SSW
SW	11	5.4	3.5	5.7	9.4	4.9	1.3	30.1	5.5	SW
WSW	12	4.2	2.2	2.6	1.1	.1	.0	10.3	2.9	WSW
W	13	3.2	1.5	.7	.0	.0	.0	5.4	1.9	W
WNW	14	2.9	1.0	.0	.0	.0	.0	3.9	1.4	WNW
NW	15	1.4	.8	.0	.0	.0	.0	2.2	1.5	NW
NNW	16	.8	.4	.1	.0	.0	.0	1.4	1.7	NNW
CALM		5.1						5.1		
TOTAL		44.9	18.9	12.2	14.0	7.8	2.2	100.0	3.4	

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/ 1/1996 - 7/31/1996
0 - 2400 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.6	.9	.4	.3	.1	.0	3.4	2.6	N
NNE	2	2.4	1.7	.5	.3	.3	.0	5.2	2.5	NNE
NE	3	1.7	1.9	.7	.1	.0	.0	4.4	2.3	NE
ENE	4	1.5	1.6	.1	.1	.0	.0	3.4	2.0	ENE
E	5	2.8	.1	.1	.3	.0	.3	3.6	2.6	E
ESE	6	.9	.3	.1	.1	.0	.0	1.5	1.8	ESE
SE	7	1.5	.3	.8	.4	.0	.0	3.0	2.7	SE
SSE	8	1.3	.8	.7	.0	.0	.0	2.8	2.0	SSE
S	9	1.3	.7	.9	.1	.1	.0	3.2	3.0	S
SSW	10	2.8	2.3	1.6	2.2	.8	.0	9.7	4.1	SSW
SW	11	5.4	4.2	7.3	9.4	2.3	.1	28.6	4.7	SW
WSW	12	4.6	1.7	3.5	1.2	.0	.0	11.0	3.0	WSW
W	13	3.0	.7	.3	.1	.0	.0	4.0	1.8	W
WNW	14	2.3	.9	.3	.0	.0	.0	3.5	1.6	WNW
NW	15	1.6	1.3	.1	.3	.0	.0	3.4	2.2	NW
NNW	16	2.4	.9	.1	.4	.1	.0	4.0	2.4	NNW
CALM		5.2						5.2		
TOTAL		42.5	20.4	17.6	15.3	3.8	.4	100.0	3.1	

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/ 1/1996 - 8/31/1996
0 - 2400 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.0	.7	.0	.1	.0	.0	2.9	1.7	N
NNE	2	2.9	1.4	.3	.0	.1	.0	4.6	1.9	NNE
NE	3	3.1	2.5	.3	.4	.0	.0	6.3	2.0	NE
ENE	4	2.6	.7	.0	.0	.0	.0	3.3	1.4	ENE
E	5	2.7	.8	.4	.1	.0	.0	4.1	1.8	E
ESE	6	2.0	1.2	.0	.0	.0	.0	3.3	1.6	ESE
SE	7	2.0	.4	.1	.1	.0	.0	2.7	1.5	SE
SSE	8	1.9	1.2	.1	.4	.1	.0	3.8	2.7	SSE
S	9	1.8	1.0	.4	.3	.0	.1	3.6	2.5	S
SSW	10	4.5	2.3	1.2	2.3	1.9	.0	12.3	4.1	SSW
SW	11	5.1	5.2	5.6	6.3	4.0	.4	26.5	4.8	SW
WSW	12	3.7	1.9	1.8	.3	.0	.0	7.7	2.3	WSW
W	13	3.6	.4	.4	.0	.0	.0	4.4	1.6	W
WNW	14	2.3	.8	.4	.0	.0	.0	3.6	1.7	WNW
NW	15	2.2	.8	.5	.0	.0	.0	3.6	1.9	NW
NNW	16	2.6	.7	.0	.0	.0	.0	3.3	1.4	NNW
CALM		4.2						4.2		
TOTAL		49.3	22.0	11.6	10.4	6.1	.5	100.0	2.9	

98.4% 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 9/ 1/1996 - 9/30/1996
0 - 2400 (PST)

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	2.2	1.5	.3	.0	.0	.0	4.0	1.9	N
NNE	2	2.3	1.1	1.4	.3	.0	.0	5.1	2.5	NNE
NE	3	3.1	.8	.5	.0	.0	.0	4.3	1.6	NE
ENE	4	2.9	.6	.2	.0	.0	.0	3.7	1.4	ENE
E	5	2.5	.9	.3	.0	.0	.0	3.7	1.8	E
ESE	6	1.7	.6	.0	.0	.0	.0	2.3	1.3	ESE
SE	7	.8	.6	.6	.2	.0	.0	2.2	2.7	SE
SSE	8	1.4	.8	.0	.0	.0	.0	2.2	1.5	SSE
S	9	2.2	2.2	.2	.0	.0	.0	4.5	1.8	S
SSW	10	4.6	3.2	.8	2.2	1.1	.3	12.1	3.8	SSW
SW	11	4.0	1.7	6.0	8.6	1.5	.5	22.3	5.1	SW
WSW	12	4.8	1.5	3.1	1.1	.0	.0	10.4	2.7	WSW
W	13	4.6	.9	.3	.3	.0	.0	6.1	1.8	W
WNW	14	2.0	.3	.2	.3	.0	.0	2.8	2.0	WNW
NW	15	3.7	.9	.5	.5	.0	.0	5.5	2.0	NW
NNW	16	1.7	.9	.3	.2	.0	.0	3.1	2.0	NNW
CALM		5.8						5.8		
TOTAL		50.1	18.6	14.4	13.5	2.6	.8	100.0	2.8	

90.4% 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 10/ 1/1996 - 10/31/1996
0 - 2400 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.4	1.4	1.1	.5	.5	.0	5.9	3.1	N
NNE	2	2.7	.8	1.4	2.7	.6	.0	8.3	4.2	NNE
NE	3	3.5	1.6	1.3	.3	.5	.0	7.2	2.7	NE
ENE	4	3.5	1.8	.8	.8	.2	.0	7.0	2.6	ENE
E	5	2.6	1.3	.0	.0	.0	.0	3.8	1.4	E
ESE	6	2.4	.8	.0	.0	.0	.0	3.2	1.3	ESE
SE	7	1.8	.3	.2	.0	.0	.0	2.2	1.4	SE
SSE	8	2.4	.3	.0	.0	.0	.0	2.7	1.2	SSE
S	9	3.8	.2	.0	.0	.0	.0	4.0	1.2	S
SSW	10	4.3	1.0	.6	.5	.5	.0	6.9	2.4	SSW
SW	11	5.0	2.1	1.0	3.2	.6	.0	11.8	3.6	SW
WSW	12	5.9	2.1	1.1	1.3	.0	.0	10.4	2.4	WSW
W	13	4.8	.8	.5	.3	.0	.0	6.4	1.7	W
WNW	14	3.0	1.9	.8	.0	.0	.0	5.8	1.9	WNW
NW	15	2.1	1.9	.5	.0	.2	.0	4.6	2.4	NW
NNW	16	1.3	.8	.2	.0	.2	.2	2.6	2.9	NNW
CALM		7.2						7.2		
TOTAL		58.6	19.0	9.4	9.6	3.2	.2	100.0	2.4	

84.1% 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 - Total Hours 11/ 1/1996 - 11/30/1996
0 - 2400 (PST)

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	1.8	1.8	.4	.0	7.6	3.8	N
NNE	2	2.0	2.2	3.0	3.5	.4	.0	11.1	4.3	NNE
NE	3	2.2	1.1	3.7	.4	.0	.0	7.4	3.2	NE
ENE	4	3.0	1.7	1.1	.2	.0	.0	5.9	2.2	ENE
E	5	2.8	.7	.2	.2	.0	.0	3.9	1.8	E
ESE	6	2.0	.4	.2	.0	.0	.0	2.6	1.5	ESE
SE	7	3.1	.4	.0	.0	.0	.0	3.5	1.0	SE
SSE	8	2.4	.4	.0	.0	.0	.0	2.8	1.2	SSE
S	9	3.9	.6	.0	.0	.0	.0	4.4	1.2	S
SSW	10	4.6	1.7	.7	.2	.7	.0	7.9	2.5	SSW
SW	11	5.9	3.3	.7	.7	1.1	.0	11.8	2.8	SW
WSW	12	3.7	1.5	.7	.0	.0	.0	5.9	1.8	WSW
W	13	3.9	.6	.0	.0	.0	.0	4.4	1.3	W
WNW	14	4.1	.9	.0	.0	.0	.0	5.0	1.4	WNW
NW	15	3.1	.6	.0	.0	.0	.0	3.7	1.3	NW
NNW	16	1.7	1.5	.2	.0	.2	.0	3.5	2.2	NNW
CALM		8.5						8.5		
TOTAL		59.7	18.1	12.4	7.0	2.8	.0	100.0	2.2	

75.1% 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 - Total Hours

12/ 1/1996 - 12/31/1996
0 - 2400 (PST)

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	1.4	N
NNE	2	3.9	.9	.0	.0	.0	.0	4.8	1.4	NNE
NE	3	2.3	.5	.0	.0	.0	.0	2.7	1.4	NE
ENE	4	4.6	.7	.0	.0	.0	.0	5.3	1.3	ENE
E	5	3.7	.9	.0	.0	.0	.0	4.6	1.4	E
ESE	6	4.1	.9	.0	.0	.0	.0	5.0	1.2	ESE
SE	7	3.7	.7	.0	.0	.0	.0	4.3	1.2	SE
SSE	8	3.4	.9	.0	.0	.0	.0	4.3	1.3	SSE
S	9	3.9	.2	.2	.0	.0	.0	4.3	1.3	S
SSW	10	4.8	1.6	.7	3.0	2.5	3.0	15.6	6.1	SSW
SW	11	5.3	1.6	1.6	1.8	.9	.9	12.1	4.1	SW
WSW	12	4.8	2.1	1.6	.7	.0	.0	9.2	2.5	WSW
W	13	3.7	1.1	.0	.0	.0	.0	4.8	1.6	W
WNW	14	3.4	.7	.0	.0	.0	.0	4.1	1.3	WNW
NW	15	3.7	1.4	.2	.0	.0	.0	5.3	1.7	NW
NNW	16	2.7	.7	.5	.0	.0	.0	3.9	1.8	NNW
CALM		3.9						3.9		
TOTAL		65.9	16.5	4.8	5.5	3.4	3.9	100.0	2.5	

58.7% 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 - Morning Transition 1/ 1/1996 - 1/31/1996
600 - 1000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	6.1	.9	.0	.0	.0	.0	7.0	1.2	N
NNE	2	2.6	1.7	.0	.9	.9	.0	6.1	3.5	NNE
NE	3	6.1	.9	.0	.0	.0	.0	7.0	1.3	NE
ENE	4	7.0	.9	.0	.0	.0	.0	7.8	1.0	ENE
E	5	8.7	.0	.0	.0	.0	.0	8.7	.8	E
ESE	6	5.2	.0	.0	.0	.0	.0	5.2	1.0	ESE
SE	7	4.3	.0	.0	.0	.0	.0	4.3	.9	SE
SSE	8	5.2	.0	.0	.0	.0	.0	5.2	1.0	SSE
S	9	4.3	.9	.0	.0	.0	.0	5.2	1.1	S
SSW	10	4.3	1.7	.0	.9	.0	.0	7.0	2.2	SSW
SW	11	10.4	.9	.0	.0	.0	.0	11.3	1.2	SW
WSW	12	2.6	.0	.0	.0	.0	.0	2.6	1.0	WSW
W	13	3.5	.9	.0	.0	.0	.0	4.3	1.3	W
WNW	14	3.5	.0	.0	.0	.0	.0	3.5	1.1	WNW
NW	15	2.6	.0	.0	.0	.9	.0	3.5	3.2	NW
NNW	16	3.5	.9	.0	.0	.9	2.6	7.8	5.8	NNW
CALM		3.5						3.5		
TOTAL		83.5	9.6	.0	1.7	2.6	2.6	100.0	1.7	

74.2% 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 2/ 1/1996 - 2/29/1996
600 - 1000 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.5	.8	.0	.0	.0	.0	3.3	1.3	N
NNE	2	3.3	.0	.0	.0	.0	.0	3.3	1.1	NNE
NE	3	3.3	.0	.0	.0	.0	.0	3.3	.9	NE
ENE	4	5.8	.0	.0	.0	.0	.0	5.8	.9	ENE
E	5	6.7	.0	.0	.0	.0	.0	6.7	1.2	E
ESE	6	5.8	:0	.0	.0	.0	.0	5.8	1.0	ESE
SE	7	4.2	.0	.0	.0	.0	.0	4.2	.9	SE
SSE	8	5.0	.0	.0	.0	.0	.0	5.0	1.0	SSE
S	9	5.8	.0	.0	.0	.0	.0	5.8	.9	S
SSW	10	6.7	2.5	.8	.0	1.7	.0	11.7	2.7	SSW
SW	11	7.5	2.5	.0	.8	1.7	2.5	15.0	4.2	SW
WSW	12	2.5	.0	.0	.0	.0	.0	2.5	.9	WSW
W	13	4.2	.0	.0	.0	.0	.0	4.2	.8	W
WNW	14	5.0	.0	.0	.0	.0	.0	5.0	.9	WNW
NW	15	.8	.8	.0	.0	.0	.0	1.7	1.4	NW
NNW	16	4.2	.0	.0	.0	.0	.0	4.2	1.2	NNW
CALM		12.5						12.5		
TOTAL		85.8	6.7	.8	.8	3.3	2.5	100.0	1.6	

83.8% 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

8 METER HEIGHT - Morning Transition 3/ 1/1996 - 3/31/1996
600 - 1000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.4	.0	1.6	.0	.0	.0	3.9	2.6	N
NNE	2	1.6	1.6	2.4	2.4	.0	.0	7.9	3.9	NNE
NE	3	4.7	.0	1.6	.8	.0	.0	7.1	2.4	NE
ENE	4	2.4	3.9	.8	.0	.0	.0	7.1	2.3	ENE
E	5	7.1	.8	.0	.0	.0	.0	7.9	1.1	E
ESE	6	6.3	.0	.0	.0	.0	.0	6.3	.9	ESE
SE	7	5.5	.0	.0	.0	.0	.0	5.5	1.0	SE
SSE	8	9.4	.0	.0	.0	.0	.0	9.4	1.1	SSE
S	9	5.5	.8	.0	.0	.0	.0	6.3	1.1	S
SSW	10	4.7	.0	.0	.0	.0	.8	5.5	2.3	SSW
SW	11	7.1	.8	.0	.8	2.4	.0	11.0	3.4	SW
WSW	12	1.6	.0	.0	.0	.0	.0	1.6	1.0	WSW
W	13	2.4	.0	.0	.0	.0	.0	2.4	1.1	W
WNW	14	3.9	.0	.0	.0	.0	.0	3.9	.8	WNW
NW	15	2.4	.8	.0	1.6	.0	.0	4.7	2.8	NW
NNW	16	3.1	.8	.8	.0	.0	.0	4.7	1.5	NNW
CALM		4.7						4.7		
TOTAL		74.8	9.4	7.1	5.5	2.4	.8	100.0	1.9	

82.7% 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 4/ 1/1996 - 4/30/1996
600 - 1000 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	3.4	2.1	.0	.0	5.5	5.1	N
NNE	2	.0	.0	2.8	3.4	2.1	.0	8.3	6.9	NNE
NE	3	6.2	1.4	2.8	.7	2.8	.0	13.8	3.6	NE
ENE	4	4.8	.7	.0	.7	.0	.0	6.2	1.7	ENE
E	5	2.1	.7	.7	.0	.0	.0	3.4	1.8	E
ESE	6	4.8	.0	.0	.0	.0	.0	4.8	.9	ESE
SE	7	3.4	.7	.7	.0	.0	.0	4.8	1.4	SE
SSE	8	4.8	.0	.0	.0	.0	.0	4.8	.9	SSE
S	9	3.4	.0	.0	.0	.0	.0	3.4	1.0	S
SSW	10	6.2	2.1	.7	1.4	.0	.0	10.3	2.4	SSW
SW	11	5.5	.7	.0	3.4	2.8	2.1	14.5	5.9	SW
WSW	12	2.8	.0	.0	.0	.7	.0	3.4	2.9	WSW
W	13	2.8	.0	.0	.0	.7	.0	3.4	2.4	W
WNW	14	2.1	.0	.0	.0	.0	.0	2.1	1.0	WNW
NW	15	.7	.7	.0	.0	.0	.0	1.4	2.0	NW
NNW	16	.7	.7	1.4	.7	.0	.0	3.4	4.1	NNW
CALM		6.2						6.2		
TOTAL		56.6	7.6	12.4	12.4	9.0	2.1	100.0	3.2	

96.8% 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 5/ 1/1996 - 5/31/1996
600 - 1000 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.9	1.3	.6	1.3	.0	.0	5.2	2.8	N
NNE	2	1.9	2.6	1.9	1.3	.6	.0	8.4	3.8	NNE
NE	3	5.2	.0	.6	.6	.6	.0	7.1	2.7	NE
ENE	4	7.1	.0	.0	.6	.0	.0	7.7	1.6	ENE
E	5	5.2	.0	.6	.6	.0	.0	6.5	1.9	E
ESE	6	2.6	.6	.0	.0	.0	.0	3.2	1.2	ESE
SE	7	3.2	.6	.0	.0	.0	.0	3.9	1.2	SE
SSE	8	3.2	.6	.0	.0	.0	.0	3.9	1.4	SSE
S	9	3.9	.0	.0	.0	.0	.0	3.9	1.0	S
SSW	10	3.2	2.6	1.3	.6	1.3	1.9	11.0	4.9	SSW
SW	11	3.2	1.9	3.9	3.9	1.3	3.2	17.4	5.9	SW
WSW	12	1.9	.0	2.6	1.3	.6	.0	6.5	4.2	WSW
W	13	1.9	.0	.0	.0	.0	.0	1.9	1.4	W
WNW	14	1.3	.0	.0	.0	.0	.0	1.3	1.1	WNW
NW	15	.6	.6	.0	.0	.0	.0	1.3	1.4	NW
NNW	16	.0	.6	.0	.0	.0	.0	.6	2.5	NNW
CALM		10.3						10.3		
TOTAL		56.8	11.6	11.6	10.3	4.5	5.2	100.0	3.0	

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 6/ 1/1996 - 6/30/1996
600 - 1000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.0	.7	.0	.7	.0	.0	3.3	2.3	N
NNE	2	1.3	.0	.0	.0	.0	.0	1.3	.7	NNE
NE	3	4.0	.0	.0	.0	.0	.0	4.0	.7	NE
ENE	4	6.0	.0	.0	.0	.0	.0	6.0	.9	ENE
E	5	5.3	.0	.0	.0	.0	.0	5.3	1.1	E
ESE	6	2.0	.7	.0	.0	.0	.0	2.7	1.4	ESE
SE	7	6.0	.0	1.3	.0	.0	.0	7.3	1.7	SE
SSE	8	2.0	.7	.7	.0	.0	.0	3.3	2.2	SSE
S	9	4.7	1.3	.7	.7	.0	.0	7.3	2.1	S
SSW	10	10.0	2.7	.0	1.3	1.3	.0	15.3	2.6	SSW
SW	11	4.0	2.0	.7	3.3	2.0	2.0	14.0	5.9	SW
WSW	12	2.7	.7	.0	.0	.7	.0	4.0	2.7	WSW
W	13	2.7	.0	.0	.0	.0	.0	2.7	1.0	W
WNW	14	2.0	.7	.0	.0	.0	.0	2.7	1.3	WNW
NW	15	.7	.7	.0	.0	.0	.0	1.3	1.3	NW
NNW	16	.0	.0	.7	.0	.0	.0	.7	4.0	NNW
CALM		18.7						18.7		
TOTAL		74.0	10.0	4.0	6.0	4.0	2.0	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

8 METER HEIGHT - Morning Transition 7/ 1/1996 - 7/31/1996
600 - 1000 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.9	.0	.0	.0	.0	.0	1.9	1.0	N
NNE	2	3.9	.0	.0	.0	.0	.0	3.9	.9	NNE
NE	3	3.9	.6	.0	.0	.0	.0	4.5	.9	NE
ENE	4	5.2	.0	.0	.0	.0	.0	5.2	1.0	ENE
E	5	6.5	.0	.0	.0	.0	.0	6.5	1.1	E
ESE	6	1.9	.6	.0	.0	.0	.0	2.6	1.1	ESE
SE	7	5.2	.6	.0	.0	.0	.0	5.8	1.3	SE
SSE	8	2.6	.6	.0	.0	.0	.0	3.2	1.1	SSE
S	9	1.9	.6	1.3	.0	.6	.0	4.5	3.3	S
SSW	10	5.2	3.9	1.3	1.9	.6	.0	12.9	3.2	SSW
SW	11	3.9	1.9	2.6	2.6	.6	.0	11.6	3.8	SW
WSW	12	5.8	.6	.0	.0	.0	.0	6.5	1.1	WSW
W	13	1.3	.0	.0	.0	.0	.0	1.3	.7	W
WNW	14	2.6	.0	.0	.0	.0	.0	2.6	.9	WNW
NW	15	1.3	.6	.0	.0	.0	.0	1.9	1.3	NW
NNW	16	3.9	.0	.0	.0	.0	.0	3.9	.7	NNW
CALM		21.3						21.3		
TOTAL		78.1	10.3	5.2	4.5	1.9	.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

8 METER HEIGHT - Morning Transition 8/ 1/1996 - 8/31/1996
600 - 1000 (PST)

		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	.7	N
NNE	2	4.0	.7	.0	.0	.0	.0	4.7	1.0	NNE
NE	3	8.7	.7	.0	.0	.0	.0	9.3	1.0	NE
ENE	4	6.7	.0	.0	.0	.0	.0	6.7	1.0	ENE
E	5	8.7	.0	.7	.0	.0	.0	9.3	1.0	E
ESE	6	4.7	.7	.0	.0	.0	.0	5.3	1.0	ESE
SE	7	5.3	.0	.0	.0	.0	.0	5.3	1.0	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	.9	S
SSW	10	5.3	.7	1.3	.7	.0	.0	8.0	2.2	SSW
SW	11	5.3	.7	2.0	.7	2.7	1.3	12.7	5.0	SW
WSW	12	6.7	.0	.0	.0	.0	.0	6.7	.7	WSW
W	13	2.0	.0	.0	.0	.0	.0	2.0	.8	W
WNW	14	2.0	.0	.0	.0	.0	.0	2.0	.8	WNW
NW	15	2.7	.0	.0	.0	.0	.0	2.7	1.1	NW
NNW	16	2.7	.0	.0	.0	.0	.0	2.7	1.0	NNW
CALM		15.3						15.3		
TOTAL		87.3	3.3	4.0	1.3	2.7	1.3	100.0	1.4	

98.4% 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 - Morning Transition 9/ 1/1996 - 9/30/1996
600 - 1000 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.5	.7	.0	.0	.0	.0	2.2	1.7	N
NNE	2	1.5	.7	.7	1.5	.0	.0	4.4	3.4	NNE
NE	3	6.7	.0	2.2	.0	.0	.0	8.9	1.5	NE
ENE	4	6.7	.0	.0	.0	.0	.0	6.7	.8	ENE
E	5	5.9	1.5	.0	.0	.0	.0	7.4	1.5	E
ESE	6	3.0	.0	.0	.0	.0	.0	3.0	.8	ESE
SE	7	.7	.0	.0	.0	.0	.0	.7	.8	SE
SSE	8	3.0	.7	.0	.0	.0	.0	3.7	1.1	SSE
S	9	3.0	.7	.0	.0	.0	.0	3.7	1.3	S
SSW	10	8.9	2.2	.0	1.5	.7	.0	13.3	2.3	SSW
SW	11	7.4	.7	.0	4.4	1.5	.0	14.1	3.9	SW
WSW	12	2.2	.0	.0	.7	.0	.0	3.0	2.6	WSW
W	13	2.2	.0	.0	.0	.0	.0	2.2	.6	W
WNW	14	1.5	.0	.0	.0	.0	.0	1.5	.6	WNW
NW	15	1.5	.0	.7	.0	.0	.0	2.2	1.8	NW
NNW	16	.7	.0	.7	.0	.0	.0	1.5	2.2	NNW
CALM		21.5						21.5		
TOTAL		77.8	7.4	4.4	8.1	2.2	.0	100.0	1.6	

90.4% 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 10/ 1/1996 - 10/31/1996
600 - 1000 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.1	.0	.0	.0	.0	.0	3.1	.8	N
NNE	2	2.3	.0	2.3	3.1	1.6	.0	9.3	5.0	NNE
NE	3	5.4	1.6	3.1	.0	.8	.0	10.9	2.5	NE
ENE	4	3.1	2.3	1.6	.0	.0	.0	7.0	2.1	ENE
E	5	4.7	.8	.0	.0	.0	.0	5.4	1.0	E
ESE	6	6.2	.0	.0	.0	.0	.0	6.2	.9	ESE
SE	7	3.1	.0	.0	.0	.0	.0	3.1	.9	SE
SSE	8	1.6	.0	.0	.0	.0	.0	1.6	.7	SSE
S	9	2.3	.0	.0	.0	.0	.0	2.3	1.0	S
SSW	10	5.4	.0	.0	.0	.0	.0	5.4	1.0	SSW
SW	11	3.9	.8	.0	.0	.0	.0	4.7	1.0	SW
WSW	12	.8	.8	.0	.8	.0	.0	2.3	3.2	WSW
W	13	3.9	.8	.8	.8	.0	.0	6.2	2.1	W
WNW	14	3.1	.8	1.6	.0	.0	.0	5.4	2.2	WNW
NW	15	3.9	.8	.0	.0	.0	.0	4.7	1.3	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		22.5						22.5		
TOTAL		75.2	8.5	9.3	4.7	2.3	.0	100.0	1.6	

84.1% 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

8 METER HEIGHT - Morning Transition 11/ 1/1996 - 11/30/1996
600 - 1000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.6	.9	3.6	.9	.9	.0	10.0	3.6	N
NNE	2	2.7	.9	1.8	3.6	.0	.0	9.1	3.9	NNE
NE	3	1.8	.9	2.7	.0	.0	.0	5.5	3.0	NE
ENE	4	4.5	3.6	1.8	.0	.0	.0	10.0	2.1	ENE
E	5	3.6	.0	.0	.0	.0	.0	3.6	.9	E
ESE	6	3.6	.0	.0	.0	.0	.0	3.6	.9	ESE
SE	7	2.7	.9	.0	.0	.0	.0	3.6	1.2	SE
SSE	8	4.5	.0	.0	.0	.0	.0	4.5	.7	SSE
S	9	8.2	.0	.0	.0	.0	.0	8.2	1.1	S
SSW	10	4.5	.9	.0	.0	.9	.0	6.4	2.3	SSW
SW	11	5.5	.9	.0	1.8	1.8	.0	10.0	3.9	SW
WSW	12	3.6	.0	.0	.0	.0	.0	3.6	1.2	WSW
W	13	1.8	.0	.0	.0	.0	.0	1.8	1.0	W
WNW	14	1.8	.0	.0	.0	.0	.0	1.8	.8	WNW
NW	15	2.7	.0	.0	.0	.0	.0	2.7	1.2	NW
NNW	16	2.7	.9	.0	.0	.0	.0	3.6	1.4	NNW
CALM		11.8						11.8		
TOTAL		70.0	10.0	10.0	6.4	3.6	.0	100.0	2.0	

75.1% DATA RECOVERED
20.3% 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 12/ 1/1996 - 12/31/1996
600 - 1000 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	6.7	1.1	.0	.0	.0	.0	7.8	1.3	N
NNE	2	5.6	.0	.0	.0	.0	.0	5.6	1.2	NNE
NE	3	5.6	2.2	.0	.0	.0	.0	7.8	1.4	NE
ENE	4	4.4	.0	.0	.0	.0	.0	4.4	1.3	ENE
E	5	4.4	1.1	.0	.0	.0	.0	5.6	1.3	E
ESE	6	5.6	.0	.0	.0	.0	.0	5.6	.9	ESE
SE	7	5.6	1.1	.0	.0	.0	.0	6.7	1.2	SE
SSE	8	5.6	.0	.0	.0	.0	.0	5.6	1.0	SSE
S	9	4.4	.0	1.1	.0	.0	.0	5.6	1.7	S
SSW	10	5.6	1.1	.0	.0	2.2	5.6	14.4	6.8	SSW
SW	11	7.8	.0	.0	1.1	1.1	.0	10.0	2.5	SW
WSW	12	3.3	3.3	.0	.0	.0	.0	6.7	1.7	WSW
W	13	3.3	1.1	.0	.0	.0	.0	4.4	1.9	W
WNW	14	2.2	.0	.0	.0	.0	.0	2.2	.8	WNW
NW	15	2.2	.0	.0	.0	.0	.0	2.2	1.4	NW
NNW	16	2.2	.0	.0	.0	.0	.0	2.2	1.3	NNW
CALM		3.3						3.3		
TOTAL		77.8	11.1	1.1	1.1	3.3	5.6	100.0	2.2	

58.7% 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

8 METER HEIGHT - Late Mid-Day

1/ 1/1996 - 1/31/1996
1000 - 1600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.9	.0	1.2	1.9	1.2	.0	6.2	5.4	N
NNE	2	5.0	.6	.6	2.5	.0	.0	8.7	2.7	NNE
NE	3	10.6	.0	.0	.0	.0	.0	10.6	.9	NE
ENE	4	8.1	.6	.0	.0	.0	.0	8.7	1.1	ENE
E	5	8.1	1.2	.0	.0	.0	.0	9.3	1.1	E
ESE	6	6.2	.6	.0	.0	.0	.0	6.8	1.1	ESE
SE	7	5.6	1.2	.0	.0	.0	.0	6.8	1.1	SE
SSE	8	3.7	.6	.0	.0	.0	.0	4.3	.9	SSE
S	9	4.3	.0	1.9	.0	.0	.0	6.2	2.0	S
SSW	10	1.2	2.5	1.9	1.9	.6	.6	8.7	5.1	SSW
SW	11	3.1	.0	3.1	.6	.0	1.9	8.7	4.9	SW
WSW	12	.6	.6	.0	.0	.0	.0	1.2	1.9	WSW
W	13	.6	.6	.0	.0	.0	.0	1.2	1.5	W
WNW	14	2.5	.0	.0	.0	.0	.0	2.5	.9	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	2.5	.0	.0	1.2	.6	1.2	5.6	5.4	NNW
CALM		4.3						4.3		
TOTAL		68.3	8.7	8.7	8.1	2.5	3.7	100.0	2.4	

74.2% 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

2/ 1/1996 - 2/29/1996
1000 - 1600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.6	.6	.0	.0	.0	.0	1.1	1.4	N
NNE	2	2.9	.0	.0	.0	.0	.0	2.9	.7	NNE
NE	3	1.7	.0	.0	.0	.0	.0	1.7	1.0	NE
ENE	4	4.0	.0	1.1	.0	.0	.0	5.1	1.8	ENE
E	5	5.7	1.1	2.9	.0	.0	.0	9.7	2.2	E
ESE	6	5.1	.0	.0	.0	.0	.0	5.1	1.0	ESE
SE	7	6.3	.6	.0	.0	.0	.0	6.9	1.1	SE
SSE	8	5.7	1.1	.0	.0	.0	.0	6.9	1.4	SSE
S	9	2.9	.6	1.1	.0	.0	.0	4.6	1.8	S
SSW	10	5.1	4.0	4.0	4.0	2.9	1.1	21.1	4.9	SSW
SW	11	3.4	4.6	4.0	4.0	1.7	.0	17.7	4.2	SW
WSW	12	3.4	.6	1.1	1.1	.6	.0	6.9	3.3	WSW
W	13	2.3	1.1	.0	.0	.0	.0	3.4	1.2	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	.6	.0	.0	.0	.0	.0	.6	.8	NNW
CALM		6.3						6.3		
TOTAL		56.0	14.3	14.3	9.1	5.1	1.1	100.0	2.7	

83.8% DATA RECOVERED
30.0% 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 3/ 1/1996 - 3/31/1996
1000 - 1600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.2	2.7	2.2	.0	.0	.0	7.1	2.6	N
NNE	2	1.1	2.2	2.2	2.7	.0	.0	8.2	4.2	NNE
NE	3	.5	.0	1.6	.0	.0	.5	2.7	5.2	NE
ENE	4	.5	1.1	.0	.0	.0	.0	1.6	1.9	ENE
E	5	1.6	.5	.0	.0	.0	.0	2.2	1.8	E
ESE	6	5.5	2.2	.0	.0	.0	.0	7.7	1.7	ESE
SE	7	3.3	2.7	.0	.0	.0	.0	6.0	1.8	SE
SSE	8	3.8	.0	.0	.0	.0	.0	3.8	1.2	SSE
S	9	4.4	3.3	.0	.0	.0	.0	7.7	1.7	S
SSW	10	2.2	3.8	.0	2.2	1.1	6.6	15.9	7.5	SSW
SW	11	1.6	.5	3.8	10.4	4.4	.0	20.9	6.4	SW
WSW	12	.0	1.6	1.6	1.1	.5	.0	4.9	4.7	WSW
W	13	.0	.5	.0	.0	.0	.0	.5	2.2	W
WNW	14	.5	.0	.0	.0	.0	.0	.5	1.6	WNW
NW	15	1.6	.5	.0	1.6	1.1	1.1	6.0	6.1	NW
NNW	16	.5	2.2	.0	.0	.0	.0	2.7	2.0	NNW
CALM		1.1						1.1		
TOTAL		30.8	24.2	11.5	18.1	7.1	8.2	100.0	4.4	

82.7% 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

4/ 1/1996 - 4/30/1996
1000 - 1600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.5	1.5	.5	.0	.0	2.5	4.3	N
NNE	2	.0	.5	2.5	3.0	1.0	.0	6.9	5.9	NNE
NE	3	1.0	.0	1.5	2.5	1.0	.0	5.9	6.2	NE
ENE	4	1.5	1.5	1.0	.5	.0	.0	4.4	2.8	ENE
E	5	.5	.5	1.5	.0	.0	.0	2.5	3.2	E
ESE	6	1.5	1.5	.0	.0	.0	.0	3.0	1.5	ESE
SE	7	3.4	1.5	1.0	.0	.0	.0	5.9	2.1	SE
SSE	8	2.0	1.5	.0	.0	.0	.0	3.4	1.8	SSE
S	9	2.5	1.5	.0	.0	.0	.5	4.4	2.8	S
SSW	10	2.5	3.4	3.4	1.0	1.5	4.4	16.3	6.3	SSW
SW	11	2.5	3.4	3.4	8.9	5.9	1.0	25.1	6.3	SW
WSW	12	1.0	.5	1.5	1.5	.0	.0	4.4	3.9	WSW
W	13	.0	.0	.0	.0	.5	.0	.5	9.4	W
WNW	14	.0	.5	.5	1.0	.5	.0	2.5	6.1	WNW
NW	15	.5	1.5	1.5	3.9	.0	.0	7.4	5.4	NW
NNW	16	.0	2.5	1.5	1.0	.0	.0	4.9	3.8	NNW
CALM		.0						.0		
TOTAL		18.7	20.7	20.7	23.6	10.3	5.9	100.0	5.0	

96.8% 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 5/ 1/1996 - 5/31/1996
1000 - 1600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.9	.5	.5	.5	.9	.5	3.7	5.9	N
NNE	2	.0	1.4	.0	.5	.5	.5	2.8	5.8	NNE
NE	3	.5	.0	.5	.5	.0	.0	1.4	4.5	NE
ENE	4	.9	.9	.0	.5	.0	.0	2.3	3.1	ENE
E	5	.9	.9	.0	.0	.0	.0	1.8	2.0	E
ESE	6	1.8	2.3	.5	.0	.0	.0	4.6	2.1	ESE
SE	7	.5	.9	.5	.0	.0	.0	1.8	2.3	SE
SSE	8	1.4	.5	.0	.0	.0	.0	1.8	1.7	SSE
S	9	1.8	.9	.0	.0	.0	.0	2.8	1.6	S
SSW	10	1.4	2.8	3.2	4.1	1.8	4.6	18.0	7.0	SSW
SW	11	.0	5.1	12.0	22.1	1.4	3.2	43.8	6.2	SW
WSW	12	.5	1.4	3.2	4.6	.0	.0	9.7	5.0	WSW
W	13	.9	.5	.5	.5	.0	.0	2.3	3.6	W
WNW	14	.0	.0	1.4	.0	.0	.0	1.4	4.7	WNW
NW	15	.0	.5	.0	.0	.0	.0	.5	2.0	NW
NNW	16	.5	.5	.0	.0	.0	.5	1.4	5.2	NNW
CALM		.0						.0		
TOTAL		12.0	18.9	22.1	33.2	4.6	9.2	100.0	5.4	

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

6/ 1/1996 - 6/30/1996
1000 - 1600 (PST)

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	2.1	N
NNE	2	.5	.5	.0	.0	.0	.0	1.0	1.8	NNE
NE	3	.5	1.0	.0	.0	.0	.0	1.4	1.7	NE
ENE	4	.5	.0	.0	.0	.0	.0	.5	1.7	ENE
E	5	1.9	1.9	.0	.0	.0	.0	3.8	2.0	E
ESE	6	.0	2.9	.0	.0	.0	.0	2.9	2.3	ESE
SE	7	1.4	1.9	.0	.0	.0	.0	3.3	2.0	SE
SSE	8	.5	2.9	.0	.0	.0	.0	3.3	2.4	SSE
S	9	1.4	1.0	1.4	.0	.0	.0	3.8	2.6	S
SSW	10	1.4	2.4	2.9	3.3	7.6	2.9	20.5	7.1	SSW
SW	11	.5	1.9	10.0	16.7	12.4	3.8	45.2	7.2	SW
WSW	12	.5	1.4	1.9	2.4	.0	.0	6.2	4.5	WSW
W	13	1.0	2.4	1.0	.0	.0	.0	4.3	2.6	W
WNW	14	.0	1.4	.0	.0	.0	.0	1.4	2.5	WNW
NW	15	.0	.5	.0	.0	.0	.0	.5	1.9	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.5						.5		
TOTAL		11.0	22.9	17.1	22.4	20.0	6.7	100.0	5.6	

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/ 1/1996 - 7/31/1996
1000 - 1600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.5	.0	.0	.5	.5	.0	1.4	6.0	N
NNE	2	.0	.5	.0	.0	.5	.0	.9	5.3	NNE
NE	3	.5	.0	.0	.0	.0	.0	.5	.7	NE
ENE	4	.0	.5	.0	.5	.0	.0	.9	4.4	ENE
E	5	.5	.0	.0	.5	.0	.0	.9	3.8	E
ESE	6	.9	.0	.0	.5	.0	.0	1.4	2.6	ESE
SE	7	1.4	.5	.9	.5	.0	.0	3.2	3.0	SE
SSE	8	.9	1.4	.9	.0	.0	.0	3.2	2.3	SSE
S	9	.9	.9	2.3	.5	.5	.0	5.1	4.4	S
SSW	10	2.3	2.3	4.6	5.5	2.3	.0	17.1	5.4	SSW
SW	11	.9	4.1	14.3	23.0	6.5	.0	48.8	6.0	SW
WSW	12	1.8	.9	7.4	2.8	.0	.0	12.9	4.2	WSW
W	13	.0	.0	.9	.0	.0	.0	.9	4.7	W
WNW	14	.0	.0	.9	.0	.0	.0	.9	5.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.5	.0	.5	.5	.5	.0	1.8	5.6	NNW
CALM		.0						.0		
TOTAL		11.1	11.1	32.7	34.6	10.6	.0	100.0	5.2	

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

8 METER HEIGHT - Late Mid-Day

8/ 1/1996 - 8/31/1996
1000 - 1600 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.5	.9	.0	.0	.0	.0	1.4	1.9	N
NNE	2	.0	.9	.0	.0	.5	.0	1.4	5.1	NNE
NE	3	.0	1.4	.0	.5	.0	.0	1.9	3.4	NE
ENE	4	1.9	.0	.0	.0	.0	.0	1.9	1.3	ENE
E	5	1.9	1.4	.5	.0	.0	.0	3.8	2.1	E
ESE	6	1.9	2.8	.0	.0	.0	.0	4.7	2.1	ESE
SE	7	2.4	.5	.0	.0	.0	.0	2.8	1.2	SE
SSE	8	1.4	1.4	.5	1.4	.5	.0	5.2	4.4	SSE
S	9	1.4	2.4	.9	.5	.0	.5	5.7	3.4	S
SSW	10	1.9	2.8	2.8	5.7	5.2	.0	18.5	6.0	SSW
SW	11	2.4	5.7	6.6	10.9	11.8	1.4	38.9	6.5	SW
WSW	12	.5	2.4	2.8	.9	.0	.0	6.6	3.5	WSW
W	13	.0	.5	.9	.0	.0	.0	1.4	3.5	W
WNW	14	1.4	.0	.0	.0	.0	.0	1.4	1.1	WNW
NW	15	.5	1.4	.5	.0	.0	.0	2.4	2.5	NW
NNW	16	.9	.0	.0	.0	.0	.0	.9	1.3	NNW
CALM		.9						.9		
TOTAL		19.9	24.6	15.6	19.9	18.0	1.9	100.0	4.8	

98.4% 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

8 METER HEIGHT - Late Mid-Day 9/ 1/1996 - 9/30/1996
1000 - 1600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.1	.0	.0	.0	.0	.0	1.1	1.0	N
NNE	2	.5	1.1	.0	.0	.0	.0	1.6	1.7	NNE
NE	3	.5	.5	.0	.0	.0	.0	1.1	2.0	NE
ENE	4	1.1	1.1	.0	.0	.0	.0	2.1	1.7	ENE
E	5	2.6	2.6	1.1	.0	.0	.0	6.3	2.4	E
ESE	6	.5	1.6	.0	.0	.0	.0	2.1	1.9	ESE
SE	7	.5	1.1	.5	.0	.0	.0	2.1	2.7	SE
SSE	8	.0	1.1	.0	.0	.0	.0	1.1	2.3	SSE
S	9	1.1	4.8	.0	.0	.0	.0	5.8	2.0	S
SSW	10	2.6	7.4	2.1	2.1	3.2	1.1	18.5	4.9	SSW
SW	11	2.1	1.1	12.2	19.6	3.7	1.6	40.2	6.3	SW
WSW	12	2.1	1.1	2.6	2.6	.0	.0	8.5	3.9	WSW
W	13	.5	1.1	.0	.0	.0	.0	1.6	1.9	W
WNW	14	.0	.0	.5	1.1	.0	.0	1.6	6.1	WNW
NW	15	.5	.0	.5	1.6	.0	.0	2.6	4.7	NW
NNW	16	.5	.5	.5	.0	.0	.0	1.6	2.3	NNW
CALM		2.1						2.1		
TOTAL		18.5	24.9	20.1	27.0	6.9	2.6	100.0	4.5	

90.4% 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

10/ 1/1996 - 10/31/1996
1000 - 1600 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.5	1.6	.5	.0	1.1	.0	3.8	4.6	N
NNE	2	3.3	1.6	1.1	1.1	1.6	.0	8.8	4.0	NNE
NE	3	1.6	1.6	.5	1.1	1.6	.0	6.6	4.8	NE
ENE	4	5.5	2.7	1.1	1.6	.5	.0	11.5	3.0	ENE
E	5	3.3	1.6	.0	.0	.0	.0	4.9	1.5	E
ESE	6	2.7	2.7	.0	.0	.0	.0	5.5	1.8	ESE
SE	7	1.6	.5	.0	.0	.0	.0	2.2	1.4	SE
SSE	8	3.3	.0	.0	.0	.0	.0	3.3	1.3	SSE
S	9	4.9	.0	.0	.0	.0	.0	4.9	1.2	S
SSW	10	2.2	1.1	.0	1.6	1.6	.0	6.6	4.7	SSW
SW	11	2.2	1.1	2.7	9.9	2.2	.0	18.1	5.9	SW
WSW	12	2.7	2.2	1.6	2.2	.0	.0	8.8	3.4	WSW
W	13	2.2	.5	1.1	.0	.0	.0	3.8	2.0	W
WNW	14	.5	.5	.0	.0	.0	.0	1.1	1.9	WNW
NW	15	1.1	.5	1.6	.0	.0	.0	3.3	3.3	NW
NNW	16	1.1	.5	.5	.0	.0	.0	2.2	2.3	NNW
CALM		4.4						4.4		
TOTAL		43.4	19.2	11.0	17.6	8.8	.0	100.0	3.4	

84.1% 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

11/ 1/1996 - 11/30/1996
1000 - 1600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.9	.0	1.3	3.2	1.3	.0	7.8	5.7	N
NNE	2	1.9	.6	2.6	5.2	1.3	.0	11.7	5.5	NNE
NE	3	2.6	1.3	4.5	.6	.0	.0	9.1	3.4	NE
ENE	4	4.5	1.3	1.9	.0	.0	.0	7.8	2.1	ENE
E	5	5.8	1.3	.6	.6	.0	.0	8.4	2.2	E
ESE	6	3.9	.6	.0	.0	.0	.0	4.5	1.2	ESE
SE	7	4.5	.6	.0	.0	.0	.0	5.2	1.2	SE
SSE	8	5.2	.6	.0	.0	.0	.0	5.8	1.2	SSE
S	9	2.6	.0	.0	.0	.0	.0	2.6	1.3	S
SSW	10	1.9	.0	1.9	.0	.0	.0	3.9	2.2	SSW
SW	11	3.9	.0	.6	1.3	3.2	.0	9.1	5.2	SW
WSW	12	3.2	1.3	.0	.0	.0	.0	4.5	1.3	WSW
W	13	.6	.0	.0	.0	.0	.0	.6	.7	W
WNW	14	2.6	.0	.0	.0	.0	.0	2.6	1.1	WNW
NW	15	1.3	.0	.0	.0	.0	.0	1.3	1.0	NW
NNW	16	.6	.0	.0	.0	.6	.0	1.3	5.5	NNW
CALM		13.6						13.6		
TOTAL		61.0	7.8	13.6	11.0	6.5	.0	100.0	2.7	

75.1% DATA RECOVERED
28.5% 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 - Late Mid-Day

12/ 1/1996 - 12/31/1996
1000 - 1600 (PST)

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	.9	N
NNE	2	3.2	2.4	.0	.0	.0	.0	5.6	1.6	NNE
NE	3	3.2	.0	.0	.0	.0	.0	3.2	1.2	NE
ENE	4	11.1	.0	.0	.0	.0	.0	11.1	1.1	ENE
E	5	6.3	.0	.0	.0	.0	.0	6.3	1.2	E
ESE	6	5.6	1.6	.0	.0	.0	.0	7.1	1.2	ESE
SE	7	4.0	1.6	.0	.0	.0	.0	5.6	1.2	SE
SSE	8	5.6	3.2	.0	.0	.0	.0	8.7	1.5	SSE
S	9	3.2	.0	.0	.0	.0	.0	3.2	1.0	S
SSW	10	4.0	.8	1.6	4.8	4.0	1.6	16.7	6.6	SSW
SW	11	1.6	.8	2.4	1.6	1.6	2.4	10.3	7.1	SW
WSW	12	.0	.8	1.6	.0	.0	.0	2.4	4.0	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.8	.0	.0	.0	.0	.0	.8	.7	WNW
NW	15	4.8	.0	.0	.0	.0	.0	4.8	1.0	NW
NNW	16	1.6	.0	.0	.0	.0	.0	1.6	.8	NNW
CALM		11.1						11.1		
TOTAL		67.5	11.1	5.6	6.3	5.6	4.0	100.0	2.6	

58.7% 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

8 METER HEIGHT - Evening Transition 1/ 1/1996 - 1/31/1996
1600 - 2000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.6	.0	3.5	.9	.0	.0	7.0	3.5	N
NNE	2	3.5	1.7	1.7	2.6	.0	.0	9.6	3.6	NNE
NE	3	1.7	3.5	1.7	1.7	.0	.0	8.7	3.4	NE
ENE	4	.0	.9	.0	.9	.0	.0	1.7	4.1	ENE
E	5	.9	2.6	.0	.0	.0	.0	3.5	1.9	E
ESE	6	2.6	.9	.0	.0	.0	.0	3.5	1.5	ESE
SE	7	.0	.9	.0	.0	.0	.0	.9	1.9	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	1.7	3.5	.0	.0	.0	.0	5.2	2.2	S
SSW	10	1.7	2.6	.9	1.7	1.7	.0	8.7	5.1	SSW
SW	11	2.6	2.6	2.6	.0	.9	.9	9.6	4.2	SW
WSW	12	5.2	2.6	.0	.0	.0	.0	7.8	1.5	WSW
W	13	4.3	.9	.0	.0	.0	.0	5.2	1.6	W
WNW	14	5.2	3.5	.0	.0	.0	.0	8.7	1.6	WNW
NW	15	6.1	2.6	.0	.0	.0	.0	8.7	1.6	NW
NNW	16	5.2	1.7	1.7	1.7	.0	.0	10.4	2.7	NNW
CALM		.9						.9		
TOTAL		44.3	30.4	12.2	9.6	2.6	.9	100.0	2.8	

74.2% 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 2/ 1/1996 - 2/29/1996
1600 - 2000 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.8	1.6	.0	.0	.0	.0	6.4	1.8	N
NNE	2	2.4	1.6	.0	.0	.0	.0	4.0	1.8	NNE
NE	3	1.6	.8	.0	.0	.0	.0	2.4	1.6	NE
ENE	4	1.6	1.6	.0	.0	.0	.0	3.2	1.7	ENE
E	5	.8	.8	2.4	.0	.0	.0	4.0	3.6	E
ESE	6	1.6	.0	.0	.0	.0	.0	1.6	1.0	ESE
SE	7	2.4	.0	.0	.0	.0	.0	2.4	.9	SE
SSE	8	1.6	1.6	.0	.0	.0	.0	3.2	2.0	SSE
S	9	4.8	3.2	1.6	.0	.0	.0	9.6	2.0	S
SSW	10	2.4	7.2	3.2	.0	.0	4.0	16.8	5.0	SSW
SW	11	3.2	8.0	4.8	2.4	.0	.0	18.4	3.5	SW
WSW	12	3.2	2.4	3.2	.8	.0	.0	9.6	3.0	WSW
W	13	4.0	.8	.0	.0	.0	.0	4.8	1.5	W
WNW	14	1.6	1.6	.0	.8	.0	.0	4.0	2.6	WNW
NW	15	4.0	2.4	.8	.0	.0	.0	7.2	1.9	NW
NNW	16	2.4	.0	.0	.0	.0	.0	2.4	1.4	NNW
CALM		.0						.0		
TOTAL		42.4	33.6	16.0	4.0	.0	4.0	100.0	2.9	

83.8% DATA RECOVERED
21.4% 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 - Evening Transition 3/ 1/1996 - 3/31/1996
1600 - 2000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.3	2.3	3.8	1.5	1.5	.8	12.3	4.6	N
NNE	2	.0	2.3	3.8	.0	.8	1.5	8.5	6.1	NNE
NE	3	2.3	1.5	.0	.8	.0	.0	4.6	2.9	NE
ENE	4	1.5	.0	.0	.0	.0	.0	1.5	1.2	ENE
E	5	.8	2.3	.0	.0	.0	.0	3.1	2.5	E
ESE	6	.8	.0	.0	.0	.0	.0	.8	1.5	ESE
SE	7	.8	.0	.0	.0	.0	.0	.8	1.6	SE
SSE	8	3.1	.0	.0	.0	.0	.0	3.1	1.2	SSE
S	9	.8	.0	.0	.0	.0	.0	.8	1.5	S
SSW	10	1.5	6.9	.8	.8	1.5	3.8	15.4	6.2	SSW
SW	11	1.5	5.4	3.1	9.2	.8	.8	20.8	5.3	SW
WSW	12	.0	3.8	3.1	.8	.0	.0	7.7	3.7	WSW
W	13	2.3	.0	1.5	.0	.8	.0	4.6	3.7	W
WNW	14	.0	1.5	.0	.0	.0	.0	1.5	2.2	WNW
NW	15	2.3	3.8	.0	1.5	.0	.0	7.7	3.4	NW
NNW	16	.8	3.1	.8	.8	.8	.0	6.2	4.2	NNW
CALM		.8						.8		
TOTAL		21.5	33.1	16.9	15.4	6.2	6.9	100.0	4.4	

82.7% 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

4/ 1/1996 - 4/30/1996
1600 - 2000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.7	.7	3.4	2.1	.0	.0	6.9	4.8	N
NNE	2	.0	.0	1.4	2.1	.0	.0	3.4	5.5	NNE
NE	3	1.4	2.1	4.1	2.1	.0	.0	9.7	4.2	NE
ENE	4	.0	.7	.0	.7	.0	.0	1.4	4.3	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	.0	.7	.0	.0	.0	.0	.7	1.9	ESE
SE	7	.7	2.1	.7	.0	.0	.0	3.4	2.3	SE
SSE	8	.7	.0	.0	.0	.0	.0	.7	1.3	SSE
S	9	2.8	.7	.7	.0	.0	.0	4.1	2.0	S
SSW	10	1.4	1.4	1.4	1.4	4.1	3.4	13.1	8.0	SSW
SW	11	3.4	4.1	5.5	6.9	2.8	1.4	24.1	5.4	SW
WSW	12	2.8	3.4	2.1	2.1	.0	.0	10.3	3.3	WSW
W	13	.0	.7	.0	.0	.0	.0	.7	2.0	W
WNW	14	.0	1.4	2.1	1.4	.0	.0	4.8	4.3	WNW
NW	15	.0	4.1	4.1	2.1	.0	.0	10.3	4.3	NW
NNW	16	.0	.0	1.4	4.1	.0	.0	5.5	6.3	NNW
CALM		.7						.7		
TOTAL		14.5	22.1	26.9	24.8	6.9	4.8	100.0	4.9	

96.8% 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 5/ 1/1996 - 5/31/1996
1600 - 2000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.6	.6	.6	3.2	1.3	.0	6.5	6.0	N
NNE	2	.6	1.3	.0	.0	.0	.0	1.9	2.1	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	.6	.6	.0	.0	.0	.0	1.3	1.6	E
ESE	6	1.3	1.3	.0	.0	.0	.0	2.6	1.9	ESE
SE	7	.0	.6	.6	.0	.0	.0	1.3	3.1	SE
SSE	8	.0	.0	1.3	.0	.0	.0	1.3	3.9	SSE
S	9	.0	.6	.6	.0	.0	.0	1.3	3.4	S
SSW	10	.0	3.2	2.6	5.8	2.6	3.9	18.1	7.2	SSW
SW	11	1.9	3.2	13.5	12.3	3.9	.0	34.8	5.3	SW
WSW	12	1.3	1.9	10.3	3.9	.0	.0	17.4	4.3	WSW
W	13	1.3	1.9	.6	.0	.0	.0	3.9	2.5	W
WNW	14	.0	1.3	1.9	1.3	.0	.0	4.5	4.5	WNW
NW	15	.0	.6	1.9	.6	.6	.0	3.9	5.2	NW
NNW	16	.0	.0	.0	.0	.6	.6	1.3	10.0	NNW
CALM		.0						.0		
TOTAL		7.7	17.4	34.2	27.1	9.0	4.5	100.0	5.2	

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 6/ 1/1996 - 6/30/1996
1600 - 2000 (PST)

		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	5.7	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	.7	.0	.0	.0	.0	.0	.7	1.6	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.7	.0	.0	.0	.0	.0	.7	1.0	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	2.0	1.3	.7	.0	.0	.0	4.0	2.0	SE
SSE	8	.0	.7	.7	.0	.0	.0	1.3	3.7	SSE
S	9	1.3	.0	.7	.0	.0	.0	2.0	2.2	S
SSW	10	1.3	2.7	2.0	5.3	3.3	1.3	16.0	6.2	SSW
SW	11	2.0	9.3	12.7	21.3	9.3	.0	54.7	5.8	SW
WSW	12	.7	4.0	6.7	2.0	.0	.0	13.3	3.7	WSW
W	13	1.3	.0	.0	.0	.0	.0	1.3	1.6	W
WNW	14	.7	.7	.0	.0	.0	.0	1.3	1.4	WNW
NW	15	2.7	.0	.0	.0	.0	.0	2.7	1.2	NW
NNW	16	.0	.7	.0	.0	.0	.0	.7	1.9	NNW
CALM		.7						.7		
TOTAL		14.0	19.3	23.3	29.3	12.7	1.3	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

8 METER HEIGHT - Evening Transition 7/ 1/1996 - 7/31/1996
1600 - 2000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.0	.0	.6	.6	.0	.0	1.3	5.5	N
NNE	2	.0	1.3	.6	1.3	1.3	.0	4.5	5.6	NNE
NE	3	.6	.6	.6	.0	.0	.0	1.9	2.5	NE
ENE	4	.0	.6	.0	.6	.0	.0	1.3	4.8	ENE
E	5	.0	.0	.6	.0	.0	.0	.6	4.3	E
ESE	6	.0	.0	.6	.0	.0	.0	.6	3.7	ESE
SE	7	.6	.0	1.9	1.9	.0	.0	4.5	4.2	SE
SSE	8	.0	.0	1.9	.0	.0	.0	1.9	3.7	SSE
S	9	.0	.0	.6	.0	.0	.0	.6	4.7	S
SSW	10	.0	2.6	1.9	2.6	.6	.0	7.7	5.1	SSW
SW	11	.6	9.7	14.2	17.4	3.2	.6	45.8	5.3	SW
WSW	12	1.9	4.5	9.0	3.2	.0	.0	18.7	4.0	WSW
W	13	1.9	.0	.6	.0	.0	.0	2.6	2.4	W
WNW	14	.0	.6	.6	.0	.0	.0	1.3	3.8	WNW
NW	15	1.3	.6	.0	.6	.0	.0	2.6	2.6	NW
NNW	16	.6	1.3	.6	.6	.6	.0	3.9	4.9	NNW
CALM		.0						.0		
TOTAL		7.7	21.9	34.8	29.0	5.8	.6	100.0	4.7	

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 8/ 1/1996 - 8/31/1996
1600 - 2000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.6	.0	.0	.6	.0	.0	1.3	3.7	N
NNE	2	.0	1.9	1.3	.0	.0	.0	3.2	3.0	NNE
NE	3	.0	1.3	.0	1.9	.0	.0	3.2	4.8	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	1.3	.6	.6	.0	.0	2.6	3.9	E
ESE	6	.0	.6	.0	.0	.0	.0	.6	2.2	ESE
SE	7	.6	1.9	.6	.6	.0	.0	3.9	2.9	SE
SSE	8	.6	2.6	.0	.0	.0	.0	3.2	2.2	SSE
S	9	.6	1.3	.0	.6	.0	.6	3.2	5.1	S
SSW	10	.6	5.8	.6	3.9	3.2	.0	14.2	5.2	SSW
SW	11	.6	12.3	15.5	18.1	1.3	.0	47.7	4.9	SW
WSW	12	.6	3.9	3.9	.0	.0	.0	8.4	3.2	WSW
W	13	.6	.6	.0	.0	.0	.0	1.3	2.1	W
WNW	14	1.9	.0	.6	.0	.0	.0	2.6	2.3	WNW
NW	15	.6	.6	1.3	.0	.0	.0	2.6	3.0	NW
NNW	16	.0	1.9	.0	.0	.0	.0	1.9	2.4	NNW
CALM		.0						.0		
TOTAL		7.7	36.1	24.5	26.5	4.5	.6	100.0	4.3	

98.4% 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

8 METER HEIGHT - Evening Transition 9/ 1/1996 - 9/30/1996
1600 - 2000 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.5	1.5	.7	.0	.0	.0	3.7	2.4	N
NNE	2	.0	.0	1.5	.0	.0	.0	1.5	4.4	NNE
NE	3	1.5	.0	.0	.0	.0	.0	1.5	1.6	NE
ENE	4	2.2	.0	.0	.0	.0	.0	2.2	1.5	ENE
E	5	.7	.0	.0	.0	.0	.0	.7	1.6	E
ESE	6	1.5	1.5	.0	.0	.0	.0	3.0	1.8	ESE
SE	7	.0	.7	2.2	.0	.0	.0	3.0	4.0	SE
SSE	8	.7	1.5	.0	.0	.0	.0	2.2	2.3	SSE
S	9	.7	3.0	.7	.0	.0	.0	4.4	2.5	S
SSW	10	2.2	3.0	1.5	3.7	.7	.0	11.1	4.7	SSW
SW	11	1.5	4.4	11.1	17.8	2.2	.7	37.8	5.6	SW
WSW	12	1.5	2.2	11.1	.7	.0	.0	15.6	3.6	WSW
W	13	3.7	.7	.7	.0	.0	.0	5.2	1.9	W
WNW	14	.7	.0	.0	.0	.0	.0	.7	1.0	WNW
NW	15	.7	1.5	.0	.7	.0	.0	3.0	2.9	NW
NNW	16	3.7	.0	.0	.7	.0	.0	4.4	2.3	NNW
CALM		.0						.0		
TOTAL		23.0	20.0	29.6	23.7	3.0	.7	100.0	4.1	

90.4% 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 10/ 1/1996 - 10/31/1996
1600 - 2000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.5	3.1	.8	2.3	1.5	.0	9.2	4.6	N
NNE	2	1.5	.8	.0	4.6	.0	.0	6.9	4.9	NNE
NE	3	2.3	3.1	1.5	.0	.0	.0	6.9	2.5	NE
ENE	4	.8	1.5	.0	2.3	.0	.0	4.6	4.5	ENE
E	5	1.5	1.5	.0	.0	.0	.0	3.1	1.8	E
ESE	6	1.5	.8	.0	.0	.0	.0	2.3	1.5	ESE
SE	7	1.5	.8	.8	.0	.0	.0	3.1	2.2	SE
SSE	8	1.5	1.5	.0	.0	.0	.0	3.1	1.8	SSE
S	9	5.4	.0	.0	.0	.0	.0	5.4	1.3	S
SSW	10	2.3	3.1	2.3	.8	.0	.0	8.5	2.9	SSW
SW	11	2.3	4.6	2.3	4.6	.0	.0	13.8	4.2	SW
WSW	12	2.3	4.6	3.1	.8	.0	.0	10.8	3.0	WSW
W	13	3.8	1.5	.0	.0	.0	.0	5.4	1.5	W
WNW	14	.8	2.3	.0	.0	.0	.0	3.1	2.0	WNW
NW	15	1.5	6.2	.0	.0	.0	.0	7.7	2.5	NW
NNW	16	2.3	2.3	.0	.0	.8	.0	5.4	2.9	NNW
CALM		.8						.8		
TOTAL		33.8	37.7	10.8	15.4	2.3	.0	100.0	3.1	

84.1% 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 11/ 1/1996 - 11/30/1996
1600 - 2000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	.9	1.8	2.6	4.4	.0	.0	9.6	4.5	N
NNE	2	1.8	3.5	4.4	5.3	.0	.0	14.9	4.2	NNE
NE	3	.0	.0	4.4	.0	.0	.0	4.4	4.5	NE
ENE	4	.9	.9	.0	.0	.0	.0	1.8	2.3	ENE
E	5	1.8	.0	.0	.0	.0	.0	1.8	1.2	E
ESE	6	1.8	.9	.0	.0	.0	.0	2.6	1.7	ESE
SE	7	1.8	.0	.0	.0	.0	.0	1.8	.8	SE
SSE	8	2.6	.0	.0	.0	.0	.0	2.6	1.5	SSE
S	9	1.8	.9	.0	.0	.0	.0	2.6	1.8	S
SSW	10	6.1	3.5	2.6	.0	.0	.0	12.3	2.2	SSW
SW	11	2.6	4.4	1.8	.9	.0	.0	9.6	2.7	SW
WSW	12	2.6	3.5	1.8	.0	.0	.0	7.9	2.4	WSW
W	13	5.3	.9	.0	.0	.0	.0	6.1	1.3	W
WNW	14	7.9	2.6	.0	.0	.0	.0	10.5	1.5	WNW
NW	15	3.5	2.6	.0	.0	.0	.0	6.1	2.0	NW
NNW	16	1.8	3.5	.0	.0	.0	.0	5.3	1.8	NNW
CALM		.0						.0		
TOTAL		43.0	28.9	17.5	10.5	.0	.0	100.0	2.6	

75.1% 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

12/ 1/1996 - 12/31/1996
1600 - 2000 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.4	3.3	.0	.0	.0	.0	7.8	1.6	N
NNE	2	3.3	2.2	.0	.0	.0	.0	5.6	1.4	NNE
NE	3	1.1	.0	.0	.0	.0	.0	1.1	1.0	NE
ENE	4	1.1	.0	.0	.0	.0	.0	1.1	1.4	ENE
E	5	1.1	.0	.0	.0	.0	.0	1.1	.8	E
ESE	6	1.1	1.1	.0	.0	.0	.0	2.2	1.9	ESE
SE	7	2.2	1.1	.0	.0	.0	.0	3.3	1.7	SE
SSE	8	3.3	3.3	.0	.0	.0	.0	6.7	1.7	SSE
S	9	4.4	1.1	.0	.0	.0	.0	5.6	1.1	S
SSW	10	2.2	1.1	.0	7.8	4.4	1.1	16.7	6.9	SSW
SW	11	1.1	4.4	.0	1.1	1.1	.0	7.8	4.0	SW
WSW	12	5.6	2.2	2.2	1.1	.0	.0	11.1	2.9	WSW
W	13	5.6	1.1	.0	.0	.0	.0	6.7	1.5	W
WNW	14	5.6	2.2	.0	.0	.0	.0	7.8	1.7	WNW
NW	15	4.4	3.3	1.1	.0	.0	.0	8.9	2.1	NW
NNW	16	3.3	2.2	.0	.0	.0	.0	5.6	1.7	NNW
CALM		1.1						1.1		
TOTAL		51.1	28.9	3.3	10.0	5.6	1.1	100.0	2.8	

58.7% 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

8 METER HEIGHT - Night Time

1/ 1/1996 - 1/31/1996
2000 - 600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.3	1.6	1.2	.0	.0	.0	7.1	1.8	N
NNE	2	2.0	.4	.8	.0	.0	.0	3.2	2.1	NNE
NE	3	6.3	.8	.4	2.0	.0	.0	9.5	2.6	NE
ENE	4	4.0	1.2	.4	.0	.0	.0	5.5	1.5	ENE
E	5	.4	.8	.0	.0	.0	.0	1.2	1.9	E
ESE	6	1.6	.0	.0	.0	.0	.0	1.6	1.2	ESE
SE	7	2.8	.8	.0	.0	.0	.0	3.6	1.4	SE
SSE	8	2.4	.0	.0	.0	.0	.0	2.4	1.1	SSE
S	9	4.0	.4	.0	.0	.0	.0	4.3	1.2	S
SSW	10	7.1	2.4	.4	.0	.0	.0	9.9	1.5	SSW
SW	11	11.1	4.0	.8	.0	.4	.8	17.0	2.3	SW
WSW	12	7.9	1.6	.0	.4	.4	.0	10.3	2.0	WSW
W	13	5.1	.4	.0	.0	.0	.0	5.5	1.3	W
WNW	14	4.0	1.2	.4	.0	.0	.0	5.5	1.5	WNW
NW	15	3.2	1.6	.0	.0	.8	.4	5.9	3.2	NW
NNW	16	4.7	1.6	.4	.4	.0	.0	7.1	2.0	NNW
CALM		.4						.4		
TOTAL		71.1	18.6	4.7	2.8	1.6	1.2	100.0	1.9	

74.2% 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

2/ 1/1996 - 2/29/1996
2000 - 600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	6.1	1.5	.0	.0	.0	.0	7.7	1.4	N
NNE	2	6.1	1.5	.0	.0	.0	.0	7.7	1.3	NNE
NE	3	3.8	1.1	.0	.0	.0	.0	5.0	1.4	NE
ENE	4	2.3	.0	.0	.0	.0	.0	2.3	1.3	ENE
E	5	.4	.0	.0	.0	.0	.0	.4	.9	E
ESE	6	2.7	.0	.0	.0	.0	.0	2.7	1.1	ESE
SE	7	1.9	.0	.0	.0	.0	.0	1.9	1.0	SE
SSE	8	2.3	.4	.0	.0	.0	.0	2.7	1.4	SSE
S	9	6.9	.4	.4	.0	.0	.0	7.7	1.3	S
SSW	10	4.6	1.9	.0	.4	.0	1.9	8.8	4.0	SSW
SW	11	10.7	6.1	.8	.4	.4	1.9	20.3	2.9	SW
WSW	12	6.9	1.5	.8	.0	.0	.0	9.2	1.5	WSW
W	13	4.6	.4	.0	.0	.0	.0	5.0	1.3	W
WNW	14	9.6	.0	.0	.0	.0	.0	9.6	1.1	WNW
NW	15	3.8	1.1	.0	.0	.0	.0	5.0	1.3	NW
NNW	16	2.7	.0	.0	.0	.0	.0	2.7	1.1	NNW
CALM		1.5						1.5		
TOTAL		77.0	16.1	1.9	.8	.4	3.8	100.0	1.8	

83.8% DATA RECOVERED
44.8% 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

3/ 1/1996 - 3/31/1996
2000 - 600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.3	.7	2.5	.7	1.1	.4	9.7	3.9	N
NNE	2	5.4	1.8	1.4	2.5	.4	.0	11.5	3.2	NNE
NE	3	3.2	2.2	1.1	1.1	.0	.0	7.5	2.6	NE
ENE	4	2.9	1.4	.0	.0	.0	.0	4.3	1.6	ENE
E	5	1.4	.4	.0	.0	.0	.0	1.8	1.5	E
ESE	6	1.4	.4	.0	.0	.0	.0	1.8	1.2	ESE
SE	7	.4	.0	.0	.0	.0	.0	.4	1.6	SE
SSE	8	3.2	.0	.0	.0	.0	.0	3.2	1.1	SSE
S	9	1.8	.4	.0	.0	.0	.0	2.2	1.2	S
SSW	10	6.1	.4	.0	.0	.0	.0	6.5	1.2	SSW
SW	11	9.7	3.9	.0	.4	.0	.0	14.0	1.5	SW
WSW	12	5.7	.0	.4	.0	.0	.0	6.1	1.4	WSW
W	13	9.0	.4	.4	.0	.0	.0	9.7	1.3	W
WNW	14	5.0	1.8	.0	.4	.0	.0	7.2	1.7	WNW
NW	15	3.2	.7	.4	.4	.0	.0	4.7	1.9	NW
NNW	16	5.0	1.8	1.1	1.1	.0	.0	9.0	2.5	NNW
CALM		.7						.7		
TOTAL		68.5	16.1	7.2	6.5	1.4	.4	100.0	2.1	

82.7% DATA RECOVERED
45.4% 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 - Night Time

4/ 1/1996 - 4/30/1996
2000 - 600 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	1.9	2.5	1.9	1.6	.0	.0	7.8	3.3	N
NNE	2	2.2	2.2	1.9	3.1	.6	.0	10.0	4.3	NNE
NE	3	1.9	1.3	1.3	2.8	.0	.0	7.2	4.0	NE
ENE	4	1.3	.3	.6	.3	.0	.0	2.5	2.7	ENE
E	5	1.3	.3	.0	.0	.0	.0	1.6	1.3	E
ESE	6	.3	.6	.0	.0	.0	.0	.9	1.7	ESE
SE	7	1.3	.3	.0	.0	.0	.0	1.6	1.3	SE
SSE	8	1.3	.3	.0	.0	.0	.0	1.6	1.4	SSE
S	9	2.2	.9	.0	.0	.0	.0	3.1	1.3	S
SSW	10	5.3	3.1	.3	1.9	1.9	4.1	16.6	5.7	SSW
SW	11	9.4	2.8	.3	1.6	.3	.3	14.7	2.5	SW
WSW	12	6.6	2.5	.3	1.3	.0	.0	10.6	2.2	WSW
W	13	3.1	.9	.0	.3	.0	.0	4.4	1.7	W
WNW	14	3.1	.0	.0	.3	.0	.0	3.4	1.7	WNW
NW	15	3.1	1.9	.6	.0	.0	.0	5.6	1.9	NW
NNW	16	2.8	1.6	.6	.3	.3	.0	5.6	2.7	NNW
CALM		2.8						2.8		
TOTAL		49.7	21.6	7.8	13.4	3.1	4.4	100.0	3.1	

96.8% 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/ 1/1996 - 5/31/1996
2000 - 600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.1	1.5	.3	1.8	.9	.0	8.5	3.6	N
NNE	2	3.2	1.5	1.5	1.5	.3	.0	7.9	3.4	NNE
NE	3	2.3	2.1	.3	.6	.3	.0	5.6	2.7	NE
ENE	4	3.5	1.8	.0	.0	.3	.0	5.6	2.0	ENE
E	5	2.9	.9	.3	.3	.0	.0	4.4	2.0	E
ESE	6	1.5	.3	.0	.0	.0	.0	1.8	1.1	ESE
SE	7	1.5	.0	.0	.0	.0	.0	1.5	1.1	SE
SSE	8	.6	.0	.0	.0	.0	.0	.6	1.2	SSE
S	9	1.2	.0	.3	.0	.0	.0	1.5	1.3	S
SSW	10	3.5	2.1	.3	.0	1.8	.0	7.6	3.7	SSW
SW	11	7.0	3.2	1.5	1.2	1.8	.0	14.7	3.2	SW
WSW	12	6.2	3.8	1.8	2.1	.3	.0	14.1	2.8	WSW
W	13	4.1	1.2	1.2	.3	.0	.0	6.7	2.1	W
WNW	14	2.6	2.1	.6	.3	.0	.0	5.6	2.1	WNW
NW	15	2.3	1.5	1.8	.3	.0	.0	5.9	2.6	NW
NNW	16	3.5	.3	1.2	.3	.0	.0	5.3	2.3	NNW
CALM		2.9						2.9		
TOTAL		53.1	22.0	10.9	8.5	5.6	.0	100.0	2.7	

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

6/ 1/1996 - 6/30/1996
2000 - 600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.0	.0	.0	.3	.0	.0	3.3	1.7	N
NNE	2	3.6	3.0	.0	.0	.0	.0	6.7	1.7	NNE
NE	3	3.6	3.0	.6	.0	.0	.0	7.3	1.9	NE
ENE	4	3.6	.6	.0	.0	.0	.0	4.2	1.3	ENE
E	5	1.8	.3	.0	.0	.0	.0	2.1	1.3	E
ESE	6	1.5	.0	.0	.0	.0	.0	1.5	1.1	ESE
SE	7	1.5	.3	.3	.0	.0	.0	2.1	1.6	SE
SSE	8	2.1	.3	.0	.0	.0	.0	2.4	1.2	SSE
S	9	2.1	.0	.0	.0	.0	.0	2.1	1.2	S
SSW	10	4.2	2.4	.9	2.4	.3	.0	10.3	3.1	SSW
SW	11	10.0	3.9	1.8	1.5	:0	.0	17.3	2.2	SW
WSW	12	7.9	3.3	2.1	.6	.0	.0	13.9	2.2	WSW
W	13	5.8	1.8	.9	.0	.0	.0	8.5	1.8	W
WNW	14	6.1	1.2	.0	.0	.0	.0	7.3	1.3	WNW
NW	15	1.8	1.5	.0	.0	.0	.0	3.3	1.6	NW
NNW	16	1.8	.9	.0	.0	.0	.0	2.7	1.4	NNW
CALM		4.8						4.8		
TOTAL		65.5	22.7	6.7	4.8	.3	.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

8 METER HEIGHT - Night Time

7/ 1/1996 - 7/31/1996
2000 - 600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	2.9	2.1	.6	.3	.0	.0	5.9	2.1	N
NNE	2	4.1	3.5	.9	.3	.0	.0	8.8	2.1	NNE
NE	3	2.6	3.5	1.2	.3	.0	.0	7.6	2.4	NE
ENE	4	.9	2.9	.3	.0	.0	.0	4.1	2.2	ENE
E	5	4.1	.3	.0	.3	.0	.6	5.3	2.8	E
ESE	6	.9	.3	.0	.0	.0	.0	1.2	1.3	ESE
SE	7	.6	.3	.6	.0	.0	.0	1.5	2.6	SE
SSE	8	1.8	.9	.0	.0	.0	.0	2.6	1.3	SSE
S	9	1.8	.6	.0	.0	.0	.0	2.3	1.4	S
SSW	10	4.1	2.6	.0	.0	.0	.0	6.7	1.6	SSW
SW	11	10.9	3.8	1.8	.0	.0	.0	16.4	1.8	SW
WSW	12	7.0	1.5	.0	.0	.0	.0	8.5	1.5	WSW
W	13	6.2	1.5	.0	.3	.0	.0	7.9	1.6	W
WNW	14	4.1	1.8	.0	.0	.0	.0	5.9	1.4	WNW
NW	15	2.9	2.3	.3	.3	.0	.0	5.9	2.2	NW
NNW	16	3.5	1.8	.0	.3	.0	.0	5.6	1.8	NNW
CALM		3.8						3.8		
TOTAL		62.2	29.6	5.6	2.1	.0	.6	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

8 METER HEIGHT - Night Time

8/ 1/1996 - 8/31/1996
2000 - 600 (PST)

WIND SPEED CLASS

WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.3	.9	.0	.0	.0	.0	4.1	1.5	N
NNE	2	5.0	2.4	.0	.0	.0	.0	7.4	1.5	NNE
NE	3	4.1	4.1	.6	.0	.0	.0	8.9	1.9	NE
ENE	4	2.1	1.5	.0	.0	.0	.0	3.6	1.6	ENE
E	5	1.8	.3	.6	.0	.0	.0	2.7	1.9	E
ESE	6	1.2	.9	.0	.0	.0	.0	2.1	1.8	ESE
SE	7	1.5	.0	.3	.0	.0	.0	1.8	1.3	SE
SSE	8	2.7	1.2	.0	.0	.0	.0	3.8	1.5	SSE
S	9	2.1	.3	.3	.0	.0	.0	2.7	1.3	S
SSW	10	8.0	2.4	.6	.0	.0	.0	10.9	1.4	SSW
SW	11	8.0	3.3	3.0	1.5	.0	.0	15.7	2.5	SW
WSW	12	6.8	1.5	.9	.0	.0	.0	9.2	1.6	WSW
W	13	6.5	.3	.3	.0	.0	.0	7.1	1.4	W
WNW	14	3.0	1.8	.6	.0	.0	.0	5.3	1.7	WNW
NW	15	3.8	.9	.3	.0	.0	.0	5.0	1.5	NW
NNW	16	4.7	1.5	.0	.0	.0	.0	6.2	1.5	NNW
CALM		3.6						3.6		
TOTAL		68.0	23.1	7.4	1.5	.0	.0	100.0	1.7	

98.4% 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

9/ 1/1996 - 9/30/1996
2000 - 600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.7	2.7	.3	.0	.0	.0	6.7	1.8	N
NNE	2	4.0	1.7	2.3	.3	.0	.0	8.3	2.4	NNE
NE	3	3.7	1.3	.0	.0	.0	.0	5.0	1.6	NE
ENE	4	2.7	.7	.3	.0	.0	.0	3.7	1.5	ENE
E	5	2.7	.3	.0	.0	.0	.0	3.0	1.2	E
ESE	6	1.7	.0	.0	.0	.0	.0	1.7	1.0	ESE
SE	7	1.0	.3	.3	.3	.0	.0	2.0	2.5	SE
SSE	8	2.0	.0	.0	.0	.0	.0	2.0	1.0	SSE
S	9	2.3	.0	.0	.0	.0	.0	2.3	1.1	S
SSW	10	6.7	1.0	.0	1.3	.0	.0	9.0	2.2	SSW
SW	11	5.3	1.3	1.7	1.3	.0	.0	9.7	2.5	SW
WSW	12	9.0	2.0	1.0	.7	.0	.0	12.7	1.8	WSW
W	13	8.7	1.3	.3	.7	.0	.0	11.0	1.8	W
WNW	14	3.7	.7	.0	.0	.0	.0	4.3	1.2	WNW
NW	15	7.3	2.0	.7	.0	.0	.0	10.0	1.6	NW
NNW	16	2.3	1.7	.3	.0	.0	.0	4.3	1.8	NNW
CALM		4.3						4.3		
TOTAL		71.0	17.0	7.3	4.7	.0	.0	100.0	1.8	

90.4% 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

8 METER HEIGHT - Night Time

10/ 1/1996 - 10/31/1996
2000 - 600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	3.5	1.7	2.1	.3	.0	.0	7.6	2.4	N
NNE	2	3.1	.3	1.7	2.8	.0	.0	8.0	3.8	NNE
NE	3	5.2	1.4	1.0	.0	.0	.0	7.6	1.7	NE
ENE	4	2.8	1.0	1.0	.0	.0	.0	4.9	1.8	ENE
E	5	1.7	1.0	.0	.0	.0	.0	2.8	1.5	E
ESE	6	1.0	.0	.0	.0	.0	.0	1.0	.7	ESE
SE	7	1.4	.0	.0	.0	.0	.0	1.4	.9	SE
SSE	8	2.4	.0	.0	.0	.0	.0	2.4	.8	SSE
S	9	3.1	.3	.0	.0	.0	.0	3.5	1.1	S
SSW	10	6.3	.0	.3	.0	.0	.0	6.6	1.0	SSW
SW	11	7.6	2.4	.0	.3	.0	.0	10.4	1.5	SW
WSW	12	10.8	1.0	.3	1.0	.0	.0	13.2	1.8	WSW
W	13	6.9	.7	.3	.7	.0	.0	8.7	1.7	W
WNW	14	5.9	2.4	1.0	.0	.0	.0	9.4	1.7	WNW
NW	15	2.1	2.1	.0	.0	.3	.0	4.5	2.6	NW
NNW	16	1.7	.3	.0	.0	.0	.3	2.4	2.9	NNW
CALM		5.6						5.6		
TOTAL		71.2	14.9	8.0	5.2	.3	.3	100.0	1.8	

84.1% 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

11/ 1/1996 - 11/30/1996
2000 - 600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.0	1.6	.8	.0	.0	.0	6.3	1.7	N
NNE	2	2.0	3.6	3.6	2.0	.0	.0	11.1	3.5	NNE
NE	3	3.2	1.2	3.6	.4	.0	.0	8.3	2.9	NE
ENE	4	2.0	1.6	.4	.4	.0	.0	4.4	2.3	ENE
E	5	1.2	.8	.0	.0	.0	.0	2.0	1.2	E
ESE	6	1.2	.0	.4	.0	.0	.0	1.6	1.8	ESE
SE	7	2.8	.4	.0	.0	.0	.0	3.2	1.0	SE
SSE	8	.4	.4	.0	.0	.0	.0	.8	2.0	SSE
S	9	3.2	.8	.0	.0	.0	.0	4.0	1.2	S
SSW	10	6.3	2.0	.0	.4	1.6	.0	10.3	2.7	SSW
SW	11	9.5	6.0	.8	.0	.0	.0	16.3	1.7	SW
WSW	12	5.2	1.6	.8	.0	.0	.0	7.5	1.7	WSW
W	13	5.6	.8	.0	.0	.0	.0	6.3	1.3	W
WNW	14	4.0	1.2	.0	.0	.0	.0	5.2	1.4	WNW
NW	15	3.6	.0	.0	.0	.0	.0	3.6	1.0	NW
NNW	16	2.0	1.2	.4	.0	.0	.0	3.6	1.9	NNW
CALM		5.6						5.6		
TOTAL		61.5	23.0	10.7	3.2	1.6	.0	100.0	1.9	

75.1% DATA RECOVERED
46.6% 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 - Night Time

12/ 1/1996 - 12/31/1996
2000 - 600 (PST)

		WIND SPEED CLASS								
WIND DIR	SECTOR	1	2	3	4	5	6	TOTAL	AVG WS (MPS)	
N	1	4.9	2.0	.0	.0	.0	.0	6.9	1.4	N
NNE	2	4.4	.5	.0	.0	.0	.0	4.9	1.4	NNE
NE	3	1.5	.0	.0	.0	.0	.0	1.5	1.4	NE
ENE	4	1.5	1.5	.0	.0	.0	.0	3.0	1.6	ENE
E	5	2.0	1.5	.0	.0	.0	.0	3.4	1.6	E
ESE	6	3.9	.5	.0	.0	.0	.0	4.4	1.2	ESE
SE	7	3.0	.5	.0	.0	.0	.0	3.4	1.2	SE
SSE	8	1.0	.0	.0	.0	.0	.0	1.0	1.1	SSE
S	9	4.4	.0	.0	.0	.0	.0	4.4	1.1	S
SSW	10	5.9	2.0	.5	1.5	1.0	3.4	14.3	5.2	SSW
SW	11	8.9	2.0	2.0	2.0	1.0	.5	16.3	3.2	SW
WSW	12	7.9	2.0	2.0	1.5	.0	.0	13.3	2.5	WSW
W	13	5.9	2.0	.0	.0	.0	.0	7.9	1.6	W
WNW	14	4.4	.5	.0	.0	.0	.0	4.9	1.2	WNW
NW	15	3.4	1.5	.5	.0	.0	.0	5.4	1.7	NW
NNW	16	2.5	.5	1.0	.0	.0	.0	3.9	2.3	NNW
CALM		1.0						1.0		
TOTAL		66.5	16.7	5.9	4.9	2.0	3.9	100.0	2.4	

58.7% DATA RECOVERED
46.5% 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/ 1/1996 - 1/31/1996
0 - 2400 (PST)

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	3.2	.0	.0	.0	.0	.0	3.2	.7	N
NNE	2	5.4	1.1	.0	.0	.0	.0	6.5	1.0	NNE
NE	3	12.9	.0	.0	.0	.0	.0	12.9	.9	NE
ENE	4	6.5	.0	.0	.0	.0	.0	6.5	.9	ENE
E	5	12.9	.0	.0	.0	.0	.0	12.9	.9	E
ESE	6	7.5	.0	.0	.0	.0	.0	7.5	.8	ESE
SE	7	8.6	2.2	.0	.0	.0	.0	10.8	1.1	SE
SSE	8	7.5	1.1	.0	.0	.0	.0	8.6	.9	SSE
S	9	7.5	.0	.0	.0	.0	.0	7.5	1.0	S
SSW	10	2.2	1.1	.0	.0	.0	.0	3.2	1.5	SSW
SW	11	3.2	.0	.0	.0	.0	.0	3.2	1.0	SW
WSW	12	.0	.0	.0	.0	.0	.0	.0	.0	WSW
W	13	1.1	.0	.0	.0	.0	.0	1.1	.8	W
WNW	14	2.2	.0	.0	.0	.0	.0	2.2	.9	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	4.3	.0	.0	.0	.0	.0	4.3	.8	NNW
CALM		9.7						9.7		
TOTAL		94.6	5.4	.0	.0	.0	.0	100.0	.8	

74.2% 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

8 METER HEIGHT - Total Hours

2/ 1/1996 - 2/29/1996
0 - 2400 (PST)

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	1.0	.0	.0	.0	.0	3.0	1.2	N
NNE	2	6.0	.0	.0	.0	.0	.0	6.0	.8	NNE
NE	3	4.0	.0	.0	.0	.0	.0	4.0	1.0	NE
ENE	4	7.0	.0	.0	.0	.0	.0	7.0	.9	ENE
E	5	9.0	1.0	.0	.0	.0	.0	10.0	1.1	E
ESE	6	8.0	.0	.0	.0	.0	.0	8.0	.9	ESE
SE	7	10.0	.0	.0	.0	.0	.0	10.0	1.0	SE
SSE	8	6.0	1.0	.0	.0	.0	.0	7.0	1.3	SSE
S	9	2.0	.0	.0	.0	.0	.0	2.0	1.1	S
SSW	10	7.0	2.0	.0	.0	.0	.0	9.0	1.3	SSW
SW	11	3.0	3.0	.0	.0	.0	.0	6.0	1.9	SW
WSW	12	4.0	.0	.0	.0	.0	.0	4.0	.9	WSW
W	13	4.0	2.0	.0	.0	.0	.0	6.0	1.2	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	2.0	.0	.0	.0	.0	.0	2.0	.8	NNW
CALM		16.0						16.0		
TOTAL		90.0	10.0	.0	.0	.0	.0	100.0	.9	

83.8% 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 3/ 1/1996 - 3/31/1996
0 - 2400 (PST)

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	3.4	3.4	.0	.0	.0	.0	6.9	1.8	N
NNE	2	2.6	3.4	.0	.0	.0	.0	6.0	1.8	NNE
NE	3	1.7	.0	.0	.0	.0	.0	1.7	1.1	NE
ENE	4	.9	2.6	.0	.0	.0	.0	3.4	2.0	ENE
E	5	5.2	.0	.0	.0	.0	.0	5.2	1.0	E
ESE	6	12.9	1.7	.0	.0	.0	.0	14.7	1.2	ESE
SE	7	6.0	2.6	.0	.0	.0	.0	8.6	1.4	SE
SSE	8	7.8	.0	.0	.0	.0	.0	7.8	1.2	SSE
S	9	6.9	5.2	.0	.0	.0	.0	12.1	1.7	S
SSW	10	3.4	5.2	.0	.0	.0	.0	8.6	1.7	SSW
SW	11	3.4	.9	.0	.0	.0	.0	4.3	1.4	SW
WSW	12	.0	.9	.0	.0	.0	.0	.9	2.0	WSW
W	13	1.7	.9	.0	.0	.0	.0	2.6	1.5	W
WNW	14	1.7	.0	.0	.0	.0	.0	1.7	1.1	WNW
NW	15	3.4	1.7	.0	.0	.0	.0	5.2	1.5	NW
NNW	16	.9	3.4	.0	.0	.0	.0	4.3	2.0	NNW
CALM		6.0						6.0		
TOTAL		68.1	31.9	.0	.0	.0	.0	100.0	1.4	

82.7% DATA RECOVERED
18.9% 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

4/ 1/1996 - 4/30/1996
0 - 2400 (PST)

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	.8	.0	.0	.0	.0	.8	2.1	N
NNE	2	.0	.8	.0	.0	.0	.0	.8	1.9	NNE
NE	3	8.4	1.7	.0	.0	.0	.0	10.1	1.2	NE
ENE	4	5.9	2.5	.0	.0	.0	.0	8.4	1.5	ENE
E	5	2.5	.8	.0	.0	.0	.0	3.4	1.6	E
ESE	6	5.0	2.5	.0	.0	.0	.0	7.6	1.2	ESE
SE	7	8.4	3.4	.0	.0	.0	.0	11.8	1.5	SE
SSE	8	7.6	2.5	.0	.0	.0	.0	10.1	1.4	SSE
S	9	6.7	1.7	.0	.0	.0	.0	8.4	1.4	S
SSW	10	7.6	4.2	.0	.0	.0	.0	11.8	1.8	SSW
SW	11	4.2	3.4	.0	.0	.0	.0	7.6	1.7	SW
WSW	12	2.5	.8	.0	.0	.0	.0	3.4	1.2	WSW
W	13	1.7	.0	.0	.0	.0	.0	1.7	.8	W
WNW	14	1.7	.0	.0	.0	.0	.0	1.7	.7	WNW
NW	15	.8	.8	.0	.0	.0	.0	1.7	2.2	NW
NNW	16	.0	4.2	.0	.0	.0	.0	4.2	2.5	NNW
CALM		6.7						6.7		
TOTAL		69.7	30.3	.0	.0	.0	.0	100.0	1.4	

96.8% 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 5/ 1/1996 - 5/31/1996
0 - 2400 (PST)

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	2.6	.9	.0	.0	.0	.0	3.4	1.4	N
NNE	2	2.6	4.3	.0	.0	.0	.0	6.8	1.7	NNE
NE	3	5.1	.0	.0	.0	.0	.0	5.1	.8	NE
ENE	4	5.1	1.7	.0	.0	.0	.0	6.8	1.4	ENE
E	5	6.8	1.7	.0	.0	.0	.0	8.5	1.3	E
ESE	6	5.1	4.3	.0	.0	.0	.0	9.4	1.7	ESE
SE	7	3.4	1.7	.0	.0	.0	.0	5.1	1.5	SE
SSE	8	6.0	1.7	.0	.0	.0	.0	7.7	1.5	SSE
S	9	6.0	1.7	.0	.0	.0	.0	7.7	1.5	S
SSW	10	5.1	5.1	.0	.0	.0	.0	10.3	1.9	SSW
SW	11	.9	6.0	.0	.0	.0	.0	6.8	2.2	SW
WSW	12	2.6	2.6	.0	.0	.0	.0	5.1	1.9	WSW
W	13	2.6	.9	.0	.0	.0	.0	3.4	1.8	W
WNW	14	1.7	.0	.0	.0	.0	.0	1.7	1.1	WNW
NW	15	.0	.9	.0	.0	.0	.0	.9	2.0	NW
NNW	16	.9	.9	.0	.0	.0	.0	1.7	2.1	NNW
CALM		9.4						9.4		
TOTAL		65.8	34.2	.0	.0	.0	.0	100.0	1.4	

100.0% DATA RECOVERED
15.7% 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

6/ 1/1996 - 6/30/1996
0 - 2400 (PST)

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	1.3	1.3	.0	.0	.0	.0	2.5	1.7	N
NNE	2	1.3	.6	.0	.0	.0	.0	1.9	1.5	NNE
NE	3	3.8	1.3	.0	.0	.0	.0	5.0	1.0	NE
ENE	4	6.3	.0	.0	.0	.0	.0	6.3	1.0	ENE
E	5	7.5	1.9	.0	.0	.0	.0	9.4	1.4	E
ESE	6	1.3	3.8	.0	.0	.0	.0	5.0	1.9	ESE
SE	7	6.9	3.1	.0	.0	.0	.0	10.0	1.5	SE
SSE	8	1.9	3.8	.0	.0	.0	.0	5.6	2.1	SSE
S	9	4.4	1.9	.0	.0	.0	.0	6.3	1.5	S
SSW	10	8.8	3.1	.0	.0	.0	.0	11.9	1.4	SSW
SW	11	3.1	2.5	.0	.0	.0	.0	5.6	1.6	SW
WSW	12	1.9	.6	.0	.0	.0	.0	2.5	1.4	WSW
W	13	3.1	2.5	.0	.0	.0	.0	5.6	1.7	W
WNW	14	.6	1.9	.0	.0	.0	.0	2.5	2.1	WNW
NW	15	1.9	1.3	.0	.0	.0	.0	3.1	1.3	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		16.9						16.9		
TOTAL		70.6	29.4	.0	.0	.0	.0	100.0	1.3	

100.0% DATA RECOVERED
22.2% 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/ 1/1996 - 7/31/1996
0 - 2400 (PST)

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	1.7	.0	.0	.0	.0	.0	1.7	.8	N
NNE	2	3.4	.9	.0	.0	.0	.0	4.3	1.1	NNE
NE	3	3.4	.9	.0	.0	.0	.0	4.3	1.0	NE
ENE	4	5.2	.9	.0	.0	.0	.0	6.0	1.0	ENE
E	5	4.3	.0	.0	.0	.0	.0	4.3	1.2	E
ESE	6	3.4	.0	.0	.0	.0	.0	3.4	1.0	ESE
SE	7	6.0	.9	.0	.0	.0	.0	6.9	1.2	SE
SSE	8	2.6	2.6	.0	.0	.0	.0	5.2	1.7	SSE
S	9	3.4	.9	.0	.0	.0	.0	4.3	1.3	S
SSW	10	5.2	5.2	.0	.0	.0	.0	10.3	1.9	SSW
SW	11	2.6	5.2	.0	.0	.0	.0	7.8	2.0	SW
WSW	12	7.8	1.7	.0	.0	.0	.0	9.5	1.2	WSW
W	13	.9	.0	.0	.0	.0	.0	.9	.9	W
WNW	14	2.6	.9	.0	.0	.0	.0	3.4	1.4	WNW
NW	15	.0	1.7	.0	.0	.0	.0	1.7	2.0	NW
NNW	16	4.3	.0	.0	.0	.0	.0	4.3	.7	NNW
CALM		21.6						21.6		
TOTAL		78.4	21.6	.0	.0	.0	.0	100.0	1.1	

100.0% DATA RECOVERED
15.6% 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

8/ 1/1996 - 8/31/1996
0 - 2400 (PST)

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	1.9	1.3	.0	.0	.0	.0	3.2	1.4	N
NNE	2	2.5	1.3	.0	.0	.0	.0	3.8	1.3	NNE
NE	3	5.1	1.9	.0	.0	.0	.0	7.0	1.2	NE
ENE	4	7.6	.0	.0	.0	.0	.0	7.6	1.2	ENE
E	5	8.3	.6	.0	.0	.0	.0	8.9	1.0	E
ESE	6	6.4	3.8	.0	.0	.0	.0	10.2	1.6	ESE
SE	7	5.7	.6	.0	.0	.0	.0	6.4	1.1	SE
SSE	8	3.2	2.5	.0	.0	.0	.0	5.7	1.8	SSE
S	9	3.2	2.5	.0	.0	.0	.0	5.7	1.7	S
SSW	10	3.2	2.5	.0	.0	.0	.0	5.7	1.5	SSW
SW	11	4.5	5.1	.0	.0	.0	.0	9.6	1.9	SW
WSW	12	1.3	2.5	.0	.0	.0	.0	3.8	1.9	WSW
W	13	2.5	.0	.0	.0	.0	.0	2.5	.9	W
WNW	14	3.2	.0	.0	.0	.0	.0	3.2	.9	WNW
NW	15	1.9	1.3	.0	.0	.0	.0	3.2	1.6	NW
NNW	16	1.9	.0	.0	.0	.0	.0	1.9	1.1	NNW
CALM		11.5						11.5		
TOTAL		73.9	26.1	.0	.0	.0	.0	100.0	1.2	

98.4% DATA RECOVERED
21.4% 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

9/ 1/1996 - 9/30/1996
0 - 2400 (PST)

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	1.0	N
NNE	2	2.3	1.6	.0	.0	.0	.0	3.9	1.4	NNE
NE	3	6.2	.8	.0	.0	.0	.0	7.0	1.0	NE
ENE	4	7.0	1.6	.0	.0	.0	.0	8.5	1.2	ENE
E	5	5.4	1.6	.0	.0	.0	.0	7.0	1.5	E
ESE	6	3.9	1.6	.0	.0	.0	.0	5.4	1.2	ESE
SE	7	1.6	1.6	.0	.0	.0	.0	3.1	1.7	SE
SSE	8	1.6	1.6	.0	.0	.0	.0	3.1	1.4	SSE
S	9	3.1	7.8	.0	.0	.0	.0	10.9	1.9	S
SSW	10	4.7	9.3	.0	.0	.0	.0	14.0	2.1	SSW
SW	11	3.9	1.6	.0	.0	.0	.0	5.4	1.4	SW
WSW	12	3.1	.8	.0	.0	.0	.0	3.9	1.4	WSW
W	13	1.6	1.6	.0	.0	.0	.0	3.1	1.6	W
WNW	14	1.6	.0	.0	.0	.0	.0	1.6	.6	WNW
NW	15	1.6	.0	.0	.0	.0	.0	1.6	1.1	NW
NNW	16	1.6	.8	.0	.0	.0	.0	2.3	1.4	NNW
CALM		17.1						17.1		
TOTAL		68.2	31.8	.0	.0	.0	.0	100.0	1.3	

90.4% DATA RECOVERED
19.8% 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

10/ 1/1996 - 10/31/1996
0 - 2400 (PST)

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	3.0	2.3	.0	.0	.0	.0	5.3	1.4	N
NNE	2	5.3	.8	.0	.0	.0	.0	6.0	1.1	NNE
NE	3	1.5	3.0	.0	.0	.0	.0	4.5	1.8	NE
ENE	4	9.0	2.3	.0	.0	.0	.0	11.3	1.3	ENE
E	5	5.3	.8	.0	.0	.0	.0	6.0	1.1	E
ESE	6	5.3	3.0	.0	.0	.0	.0	8.3	1.6	ESE
SE	7	3.0	.8	.0	.0	.0	.0	3.8	1.3	SE
SSE	8	4.5	.0	.0	.0	.0	.0	4.5	1.2	SSE
S	9	7.5	.0	.0	.0	.0	.0	7.5	1.2	S
SSW	10	4.5	.8	.0	.0	.0	.0	5.3	1.1	SSW
SW	11	2.3	.8	.0	.0	.0	.0	3.0	1.3	SW
WSW	12	3.8	2.3	.0	.0	.0	.0	6.0	1.7	WSW
W	13	3.8	.8	.0	.0	.0	.0	4.5	1.0	W
WNW	14	.8	.8	.0	.0	.0	.0	1.5	1.9	WNW
NW	15	3.8	.0	.0	.0	.0	.0	3.8	.9	NW
NNW	16	1.5	.8	.0	.0	.0	.0	2.3	1.5	NNW
CALM		16.5						16.5		
TOTAL		81.2	18.8	.0	.0	.0	.0	100.0	1.1	

84.1% 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

8 METER HEIGHT - Total Hours 11/ 1/1996 - 11/30/1996
0 - 2400 (PST)

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	3.6	.0	.0	.0	.0	.0	3.6	.8	N
NNE	2	6.0	1.2	.0	.0	.0	.0	7.2	1.2	NNE
NE	3	3.6	.0	.0	.0	.0	.0	3.6	1.1	NE
ENE	4	8.4	2.4	.0	.0	.0	.0	10.8	1.2	ENE
E	5	3.6	1.2	.0	.0	.0	.0	4.8	1.6	E
ESE	6	6.0	1.2	.0	.0	.0	.0	7.2	1.2	ESE
SE	7	8.4	1.2	.0	.0	.0	.0	9.6	1.1	SE
SSE	8	3.6	1.2	.0	.0	.0	.0	4.8	1.1	SSE
S	9	3.6	.0	.0	.0	.0	.0	3.6	1.4	S
SSW	10	1.2	.0	.0	.0	.0	.0	1.2	.5	SSW
SW	11	1.2	.0	.0	.0	.0	.0	1.2	.7	SW
WSW	12	4.8	.0	.0	.0	.0	.0	4.8	.9	WSW
W	13	1.2	.0	.0	.0	.0	.0	1.2	.9	W
WNW	14	4.8	.0	.0	.0	.0	.0	4.8	.9	WNW
NW	15	3.6	.0	.0	.0	.0	.0	3.6	1.1	NW
NNW	16	1.2	.0	.0	.0	.0	.0	1.2	1.5	NNW
CALM		26.5						26.5		
TOTAL		91.6	8.4	.0	.0	.0	.0	100.0	.8	

75.1% DATA RECOVERED
15.3% 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/ 1/1996 - 12/31/1996
0 - 2400 (PST)

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	5.4	.0	.0	.0	.0	.0	5.4	.9	N
NNE	2	3.6	1.8	.0	.0	.0	.0	5.4	1.4	NNE
NE	3	5.4	.0	.0	.0	.0	.0	5.4	1.2	NE
ENE	4	17.9	.0	.0	.0	.0	.0	17.9	1.0	ENE
E	5	3.6	.0	.0	.0	.0	.0	3.6	.8	E
ESE	6	7.1	.0	.0	.0	.0	.0	7.1	.9	ESE
SE	7	7.1	1.8	.0	.0	.0	.0	8.9	.9	SE
SSE	8	7.1	.0	.0	.0	.0	.0	7.1	.7	SSE
S	9	3.6	.0	.0	.0	.0	.0	3.6	.9	S
SSW	10	5.4	.0	.0	.0	.0	.0	5.4	1.1	SSW
SW	11	1.8	.0	.0	.0	.0	.0	1.8	1.5	SW
WSW	12	1.8	1.8	.0	.0	.0	.0	3.6	1.4	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	1.8	.0	.0	.0	.0	.0	1.8	.7	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	1.8	.0	.0	.0	.0	.0	1.8	.7	NNW
CALM		21.4						21.4		
TOTAL		94.6	5.4	.0	.0	.0	.0	100.0	.8	

58.7% DATA RECOVERED
12.8% 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/ 1/1996 - 1/31/1996
0 - 2400 (PST)

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	4.0	.0	.0	.0	.0	.0	4.0	.9	N
NNE	2	8.0	.0	4.0	.0	.0	.0	12.0	2.1	NNE
NE	3	4.0	.0	.0	.0	.0	.0	4.0	1.1	NE
ENE	4	20.0	.0	.0	.0	.0	.0	20.0	1.1	ENE
E	5	4.0	.0	.0	.0	.0	.0	4.0	1.4	E
ESE	6	16.0	.0	.0	.0	.0	.0	16.0	1.0	ESE
SE	7	4.0	.0	.0	.0	.0	.0	4.0	1.0	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	.0	8.0	.0	.0	.0	8.0	3.7	S
SSW	10	4.0	.0	.0	.0	.0	.0	4.0	1.0	SSW
SW	11	4.0	.0	.0	.0	.0	.0	4.0	1.4	SW
WSW	12	4.0	4.0	.0	.0	.0	.0	8.0	1.9	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	4.0	.0	.0	.0	.0	.0	4.0	.6	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	4.0	.0	.0	.0	.0	.0	4.0	.6	NNW
CALM		4.0						4.0		
TOTAL		84.0	4.0	12.0	.0	.0	.0	100.0	1.4	

74.2% DATA RECOVERED
4.5% 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

2/ 1/1996 - 2/29/1996
0 - 2400 (PST)

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	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	4.0	.0	.0	.0	.0	.0	4.0	1.3	ENE
E	5	12.0	4.0	.0	.0	.0	.0	16.0	1.4	E
ESE	6	4.0	.0	.0	.0	.0	.0	4.0	1.7	ESE
SE	7	4.0	.0	.0	.0	.0	.0	4.0	.7	SE
SSE	8	4.0	.0	.0	.0	.0	.0	4.0	1.6	SSE
S	9	12.0	.0	4.0	.0	.0	.0	16.0	1.4	S
SSW	10	8.0	4.0	8.0	.0	.0	.0	20.0	2.5	SSW
SW	11	4.0	8.0	4.0	.0	.0	.0	16.0	2.7	SW
WSW	12	8.0	.0	.0	.0	.0	.0	8.0	1.2	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	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		8.0						8.0		
TOTAL		68.0	16.0	16.0	.0	.0	.0	100.0	1.7	

83.8% 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 3/ 1/1996 - 3/31/1996
0 - 2400 (PST)

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	9.1	4.5	9.1	.0	.0	.0	22.7	2.7	N
NNE	2	.0	4.5	9.1	.0	.0	.0	13.6	3.4	NNE
NE	3	4.5	.0	.0	.0	.0	.0	4.5	1.3	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	9.1	.0	.0	.0	.0	.0	9.1	1.2	E
ESE	6	.0	4.5	.0	.0	.0	.0	4.5	2.7	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	9.1	.0	.0	.0	.0	.0	9.1	1.3	SSE
S	9	.0	4.5	.0	.0	.0	.0	4.5	1.9	S
SSW	10	4.5	.0	.0	.0	.0	.0	4.5	1.6	SSW
SW	11	9.1	.0	9.1	.0	.0	.0	18.2	2.1	SW
WSW	12	.0	9.1	.0	.0	.0	.0	9.1	3.0	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		45.5	27.3	27.3	.0	.0	.0	100.0	2.3	

82.7% DATA RECOVERED
3.6% 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/ 1/1996 - 4/30/1996
0 - 2400 (PST)

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	2.9	.0	.0	.0	2.9	3.9	N
NNE	2	.0	.0	5.9	.0	.0	.0	5.9	3.9	NNE
NE	3	.0	.0	2.9	.0	.0	.0	2.9	3.3	NE
ENE	4	2.9	.0	2.9	.0	.0	.0	5.9	2.2	ENE
E	5	.0	.0	5.9	.0	.0	.0	5.9	3.5	E
ESE	6	2.9	.0	.0	.0	.0	.0	2.9	1.2	ESE
SE	7	.0	2.9	5.9	.0	.0	.0	8.8	3.1	SE
SSE	8	2.9	.0	.0	.0	.0	.0	2.9	.7	SSE
S	9	.0	2.9	.0	.0	.0	.0	2.9	3.1	S
SSW	10	.0	5.9	11.8	.0	.0	.0	17.6	3.5	SSW
SW	11	5.9	8.8	2.9	.0	.0	.0	17.6	2.6	SW
WSW	12	.0	2.9	2.9	.0	.0	.0	5.9	3.1	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	2.9	.0	.0	.0	.0	2.9	3.3	WNW
NW	15	.0	5.9	5.9	.0	.0	.0	11.8	3.4	NW
NNW	16	.0	.0	2.9	.0	.0	.0	2.9	3.8	NNW
CALM		.0						.0		
TOTAL		14.7	32.4	52.9	.0	.0	.0	100.0	3.1	

96.8% DATA RECOVERED
4.9% 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

5/ 1/1996 - 5/31/1996
0 - 2400 (PST)

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	3.8	.0	.0	.0	.0	3.8	3.1	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	3.8	.0	.0	.0	.0	.0	3.8	1.4	ENE
E	5	3.8	.0	.0	.0	.0	.0	3.8	1.0	E
ESE	6	.0	.0	3.8	.0	.0	.0	3.8	3.6	ESE
SE	7	.0	.0	3.8	.0	.0	.0	3.8	3.4	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	3.8	11.5	.0	.0	.0	15.4	3.3	SSW
SW	11	3.8	23.1	23.1	.0	.0	.0	50.0	3.1	SW
WSW	12	.0	.0	15.4	.0	.0	.0	15.4	3.7	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		11.5	30.8	57.7	.0	.0	.0	100.0	3.1	

100.0% DATA RECOVERED
3.5% 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

6/ 1/1996 - 6/30/1996
0 - 2400 (PST)

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	3.1	.0	.0	.0	.0	.0	3.1	.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	3.1	.0	.0	.0	.0	3.1	3.1	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	3.1	.0	3.1	.0	.0	.0	6.3	2.7	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	3.1	.0	3.1	.0	.0	.0	6.3	2.5	S
SSW	10	3.1	3.1	9.4	.0	.0	.0	15.6	3.0	SSW
SW	11	3.1	3.1	31.3	.0	.0	.0	37.5	3.4	SW
WSW	12	.0	6.3	3.1	.0	.0	.0	9.4	3.3	WSW
W	13	3.1	3.1	3.1	.0	.0	.0	9.4	2.8	W
WNW	14	3.1	.0	.0	.0	.0	.0	3.1	.7	WNW
NW	15	3.1	.0	.0	.0	.0	.0	3.1	1.2	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		3.1						3.1		
TOTAL		28.1	18.8	53.1	.0	.0	.0	100.0	2.8	

100.0% DATA RECOVERED
4.4% 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 7/ 1/1996 - 7/31/1996
0 - 2400 (PST)

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	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	3.2	.0	.0	.0	.0	.0	3.2	1.6	E
ESE	6	.0	3.2	.0	.0	.0	.0	3.2	1.9	ESE
SE	7	6.5	.0	.0	.0	.0	.0	6.5	1.2	SE
SSE	8	.0	.0	6.5	.0	.0	.0	6.5	3.5	SSE
S	9	.0	6.5	6.5	.0	.0	.0	12.9	3.3	S
SSW	10	.0	3.2	3.2	.0	.0	.0	6.5	3.4	SSW
SW	11	.0	12.9	22.6	.0	.0	.0	35.5	3.5	SW
WSW	12	.0	3.2	12.9	.0	.0	.0	16.1	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	6.5	.0	.0	.0	.0	.0	6.5	1.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		3.2						3.2		
TOTAL		19.4	29.0	51.6	.0	.0	.0	100.0	3.0	

100.0% DATA RECOVERED
4.2% 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

8/ 1/1996 - 8/31/1996
0 - 2400 (PST)

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	.0	2.7	.0	.0	.0	.0	2.7	2.1	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	8.1	2.7	.0	.0	.0	10.8	3.3	E
ESE	6	2.7	.0	.0	.0	.0	.0	2.7	.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	2.7	5.4	.0	.0	.0	8.1	3.5	S
SSW	10	2.7	5.4	8.1	.0	.0	.0	16.2	3.0	SSW
SW	11	2.7	13.5	13.5	.0	.0	.0	29.7	3.1	SW
WSW	12	2.7	5.4	5.4	.0	.0	.0	13.5	2.8	WSW
W	13	.0	2.7	5.4	.0	.0	.0	8.1	3.5	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	2.7	2.7	.0	.0	.0	5.4	3.3	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		2.7						2.7		
TOTAL		13.5	43.2	43.2	.0	.0	.0	100.0	3.0	

98.4% 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

9/ 1/1996 - 9/30/1996
0 - 2400 (PST)

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	3.6	.0	.0	.0	.0	3.6	3.2	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	.0	.0	3.6	.0	.0	.0	3.6	3.8	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	3.6	7.1	3.6	.0	.0	.0	14.3	2.6	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	3.6	.0	.0	.0	.0	3.6	2.9	SSE
S	9	7.1	.0	.0	.0	.0	.0	7.1	1.1	S
SSW	10	7.1	7.1	7.1	.0	.0	.0	21.4	2.5	SSW
SW	11	3.6	.0	14.3	.0	.0	.0	17.9	3.3	SW
WSW	12	.0	3.6	10.7	.0	.0	.0	14.3	3.7	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	3.6	.0	.0	.0	3.6	3.5	WNW
NW	15	.0	.0	3.6	.0	.0	.0	3.6	3.6	NW
NNW	16	.0	.0	3.6	.0	.0	.0	3.6	3.4	NNW
CALM		3.6						3.6		
TOTAL		25.0	25.0	50.0	.0	.0	.0	100.0	2.8	

90.4% 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

10/ 1/1996 - 10/31/1996
0 - 2400 (PST)

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	14.3	.0	.0	.0	.0	14.3	2.8	NNE
NE	3	7.1	.0	.0	.0	.0	.0	7.1	1.0	NE
ENE	4	.0	7.1	.0	.0	.0	.0	7.1	3.2	ENE
E	5	.0	7.1	.0	.0	.0	.0	7.1	1.8	E
ESE	6	14.3	7.1	.0	.0	.0	.0	21.4	1.3	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	7.1	.0	.0	.0	.0	.0	7.1	1.1	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	.0	7.1	.0	.0	.0	.0	7.1	3.1	SSW
SW	11	7.1	7.1	.0	.0	.0	.0	14.3	1.9	SW
WSW	12	.0	7.1	.0	.0	.0	.0	7.1	2.5	WSW
W	13	.0	.0	7.1	.0	.0	.0	7.1	4.0	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		35.7	57.1	7.1	.0	.0	.0	100.0	2.1	

84.1% DATA RECOVERED
2.2% 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

11/ 1/1996 - 11/30/1996
0 - 2400 (PST)

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	4.0	.0	.0	.0	8.0	2.4	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	4.0	4.0	4.0	.0	.0	.0	12.0	2.4	ENE
E	5	8.0	.0	.0	.0	.0	.0	8.0	1.1	E
ESE	6	8.0	.0	.0	.0	.0	.0	8.0	1.5	ESE
SE	7	4.0	.0	.0	.0	.0	.0	4.0	1.0	SE
SSE	8	8.0	.0	.0	.0	.0	.0	8.0	1.3	SSE
S	9	4.0	.0	.0	.0	.0	.0	4.0	.8	S
SSW	10	4.0	.0	.0	.0	.0	.0	4.0	.8	SSW
SW	11	16.0	.0	.0	.0	.0	.0	16.0	.9	SW
WSW	12	4.0	.0	.0	.0	.0	.0	4.0	.6	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	4.0	.0	.0	.0	.0	.0	4.0	1.1	WNW
NW	15	4.0	.0	.0	.0	.0	.0	4.0	.8	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		16.0						16.0		
TOTAL		88.0	4.0	8.0	.0	.0	.0	100.0	1.2	

75.1% 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

8 METER HEIGHT - Total Hours

12/ 1/1996 - 12/31/1996
0 - 2400 (PST)

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	6.3	.0	.0	.0	.0	6.3	2.4	NNE
NE	3	.0	6.3	.0	.0	.0	.0	6.3	2.1	NE
ENE	4	12.5	.0	.0	.0	.0	.0	12.5	.9	ENE
E	5	6.3	.0	.0	.0	.0	.0	6.3	1.2	E
ESE	6	18.8	.0	.0	.0	.0	.0	18.8	1.1	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	6.3	.0	.0	.0	.0	.0	6.3	.9	S
SSW	10	.0	6.3	.0	.0	.0	.0	6.3	3.0	SSW
SW	11	6.3	.0	.0	.0	.0	.0	6.3	.8	SW
WSW	12	.0	.0	6.3	.0	.0	.0	6.3	3.9	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	12.5	.0	.0	.0	.0	.0	12.5	.9	NW
NNW	16	6.3	.0	.0	.0	.0	.0	6.3	1.0	NNW
CALM		6.3						6.3		
TOTAL		75.0	18.8	6.3	.0	.0	.0	100.0	1.4	

58.7% DATA RECOVERED
3.7% 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/ 1/1996 - 1/31/1996
0 - 2400 (PST)

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	5.0	.0	.0	.0	.0	.0	5.0	.9	N
NNE	2	.0	5.0	.0	5.0	.0	.0	10.0	4.0	NNE
NE	3	10.0	.0	.0	.0	.0	.0	10.0	1.1	NE
ENE	4	10.0	5.0	.0	.0	.0	.0	15.0	1.7	ENE
E	5	20.0	.0	.0	.0	.0	.0	20.0	.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	5.0	.0	.0	.0	.0	.0	5.0	1.2	SSE
S	9	5.0	.0	5.0	.0	.0	.0	10.0	3.2	S
SSW	10	.0	.0	5.0	.0	.0	.0	5.0	3.4	SSW
SW	11	10.0	.0	.0	.0	.0	.0	10.0	1.6	SW
WSW	12	.0	.0	.0	.0	.0	.0	.0	.0	WSW
W	13	.0	5.0	.0	.0	.0	.0	5.0	2.3	W
WNW	14	5.0	.0	.0	.0	.0	.0	5.0	1.2	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		70.0	15.0	10.0	5.0	.0	.0	100.0	1.9	

74.2% DATA RECOVERED
3.6% 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

2/ 1/1996 - 2/29/1996
0 - 2400 (PST)

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	.0	.0	.0	.0	.0	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	4.0	.0	8.0	.0	.0	.0	12.0	3.3	ENE
E	5	.0	.0	8.0	.0	.0	.0	8.0	4.2	E
ESE	6	4.0	.0	.0	.0	.0	.0	4.0	1.4	ESE
SE	7	.0	4.0	.0	.0	.0	.0	4.0	2.3	SE
SSE	8	8.0	.0	.0	.0	.0	.0	8.0	.8	SSE
S	9	.0	.0	4.0	.0	.0	.0	4.0	4.4	S
SSW	10	4.0	12.0	12.0	.0	.0	.0	28.0	3.0	SSW
SW	11	4.0	4.0	8.0	.0	.0	.0	16.0	3.1	SW
WSW	12	4.0	4.0	4.0	4.0	.0	.0	16.0	3.7	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		28.0	24.0	44.0	4.0	.0	.0	100.0	3.0	

83.8% 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

3/ 1/1996 - 3/31/1996
0 - 2400 (PST)

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	10.8	.0	.0	.0	10.8	4.6	N
NNE	2	.0	2.7	5.4	8.1	.0	.0	16.2	4.6	NNE
NE	3	.0	.0	10.8	.0	.0	.0	10.8	4.5	NE
ENE	4	2.7	.0	2.7	.0	.0	.0	5.4	2.9	ENE
E	5	2.7	2.7	.0	.0	.0	.0	5.4	2.3	E
ESE	6	.0	2.7	.0	.0	.0	.0	2.7	3.3	ESE
SE	7	.0	2.7	.0	.0	.0	.0	2.7	3.1	SE
SSE	8	2.7	.0	.0	.0	.0	.0	2.7	1.0	SSE
S	9	2.7	.0	.0	.0	.0	.0	2.7	.6	S
SSW	10	2.7	.0	.0	2.7	.0	.0	5.4	3.5	SSW
SW	11	2.7	.0	13.5	8.1	.0	.0	24.3	4.6	SW
WSW	12	.0	.0	5.4	2.7	.0	.0	8.1	5.1	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	2.7	.0	.0	2.7	5.6	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0						.0		
TOTAL		16.2	10.8	48.6	24.3	.0	.0	100.0	4.1	

82.7% 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 4/ 1/1996 - 4/30/1996
0 - 2400 (PST)

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	13.0	4.3	.0	.0	17.4	4.9	N
NNE	2	.0	.0	13.0	2.2	.0	.0	15.2	4.6	NNE
NE	3	.0	.0	8.7	2.2	.0	.0	10.9	4.9	NE
ENE	4	.0	.0	2.2	.0	.0	.0	2.2	4.2	ENE
E	5	.0	2.2	2.2	.0	.0	.0	4.3	3.4	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	4.3	.0	8.7	.0	.0	.0	13.0	3.2	SSW
SW	11	2.2	.0	13.0	.0	.0	.0	15.2	4.0	SW
WSW	12	.0	.0	4.3	.0	.0	.0	4.3	4.4	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	2.2	.0	.0	.0	2.2	4.4	WNW
NW	15	.0	.0	4.3	.0	.0	.0	4.3	5.1	NW
NNW	16	.0	.0	8.7	2.2	.0	.0	10.9	4.8	NNW
CALM		.0						.0		
TOTAL		6.5	2.2	80.4	10.9	.0	.0	100.0	4.4	

96.8% DATA RECOVERED
6.6% 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

5/ 1/1996 - 5/31/1996
0 - 2400 (PST)

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	3.2	1.6	.0	.0	4.8	4.5	N
NNE	2	.0	.0	3.2	.0	.0	.0	3.2	4.7	NNE
NE	3	.0	.0	3.2	.0	.0	.0	3.2	5.0	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	1.6	.0	.0	.0	.0	1.6	2.8	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	.0	1.6	.0	.0	.0	1.6	4.4	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	1.6	.0	9.5	3.2	.0	.0	14.3	4.5	SSW
SW	11	.0	.0	39.7	9.5	.0	.0	49.2	4.9	SW
WSW	12	.0	.0	7.9	6.3	.0	.0	14.3	5.2	WSW
W	13	.0	.0	1.6	.0	.0	.0	1.6	4.8	W
WNW	14	.0	.0	6.3	.0	.0	.0	6.3	4.5	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		1.6	1.6	76.2	20.6	.0	.0	100.0	4.8	

100.0% 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 6/ 1/1996 - 6/30/1996
0 - 2400 (PST)

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	2.2	.0	.0	2.2	.0	.0	4.3	3.5	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	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	2.2	.0	.0	.0	.0	.0	2.2	1.7	ESE
SE	7	.0	.0	2.2	.0	.0	.0	2.2	4.7	SE
SSE	8	2.2	.0	2.2	.0	.0	.0	4.3	3.1	SSE
S	9	.0	.0	4.3	2.2	.0	.0	6.5	4.7	S
SSW	10	2.2	.0	6.5	4.3	.0	.0	13.0	4.5	SSW
SW	11	.0	.0	28.3	15.2	.0	.0	43.5	5.1	SW
WSW	12	2.2	.0	10.9	4.3	.0	.0	17.4	4.3	WSW
W	13	.0	.0	2.2	.0	.0	.0	2.2	4.1	W
WNW	14	2.2	.0	.0	.0	.0	.0	2.2	1.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	2.2	.0	.0	.0	2.2	4.0	NNW
CALM		.0						.0		
TOTAL		13.0	.0	58.7	28.3	.0	.0	100.0	4.5	

100.0% DATA RECOVERED
6.4% 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

7/ 1/1996 - 7/31/1996
0 - 2400 (PST)

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	.0	.0	.0	.0	.0	NNE
NE	3	.0	.0	1.0	.0	.0	.0	1.0	4.1	NE
ENE	4	1.0	1.0	.0	.0	.0	.0	2.1	2.1	ENE
E	5	1.0	.0	.0	1.0	.0	.0	2.1	3.8	E
ESE	6	.0	.0	1.0	1.0	.0	.0	2.1	4.6	ESE
SE	7	.0	.0	1.0	.0	.0	.0	1.0	4.8	SE
SSE	8	1.0	.0	1.0	.0	.0	.0	2.1	2.6	SSE
S	9	.0	.0	4.1	.0	.0	.0	4.1	4.7	S
SSW	10	1.0	.0	9.3	2.1	.0	.0	12.4	4.4	SSW
SW	11	.0	.0	29.9	16.5	.0	.0	46.4	5.0	SW
WSW	12	1.0	.0	15.5	5.2	.0	.0	21.6	4.8	WSW
W	13	.0	.0	2.1	.0	.0	.0	2.1	4.7	W
WNW	14	.0	.0	2.1	.0	.0	.0	2.1	5.0	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	1.0	.0	.0	.0	1.0	4.8	NNW
CALM		.0						.0		
TOTAL		5.2	1.0	68.0	25.8	.0	.0	100.0	4.7	

100.0% DATA RECOVERED
13.0% 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/ 1/1996 - 8/31/1996
0 - 2400 (PST)

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	2.3	.0	.0	2.3	5.8	N
NNE	2	.0	.0	.0	.0	.0	.0	.0	.0	NNE
NE	3	2.3	.0	.0	2.3	.0	.0	4.7	3.3	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	2.3	.0	.0	.0	.0	.0	2.3	1.3	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	2.3	.0	.0	.0	.0	2.3	2.2	SE
SSE	8	.0	.0	2.3	.0	.0	.0	2.3	4.9	SSE
S	9	.0	2.3	.0	2.3	.0	.0	4.7	4.1	S
SSW	10	.0	.0	9.3	4.7	.0	.0	14.0	5.0	SSW
SW	11	4.7	4.7	25.6	9.3	.0	.0	44.2	4.4	SW
WSW	12	2.3	2.3	9.3	4.7	.0	.0	18.6	4.0	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	2.3	.0	.0	.0	2.3	5.4	WNW
NW	15	.0	.0	2.3	.0	.0	.0	2.3	4.8	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0						.0		
TOTAL		11.6	11.6	51.2	25.6	.0	.0	100.0	4.3	

98.4% 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

9/ 1/1996 - 9/30/1996
0 - 2400 (PST)

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	2.2	.0	.0	.0	2.2	4.4	NNE
NE	3	2.2	.0	2.2	.0	.0	.0	4.4	2.4	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	2.2	2.2	.0	.0	.0	4.4	3.5	E
ESE	6	.0	4.4	.0	.0	.0	.0	4.4	1.9	ESE
SE	7	.0	.0	2.2	.0	.0	.0	2.2	4.7	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	.0	4.4	.0	.0	.0	4.4	4.5	SSW
SW	11	4.4	2.2	40.0	11.1	.0	.0	57.8	4.5	SW
WSW	12	.0	.0	6.7	4.4	.0	.0	11.1	5.1	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	2.2	.0	.0	2.2	5.6	NW
NNW	16	.0	.0	.0	2.2	.0	.0	2.2	5.9	NNW
CALM		4.4						4.4		
TOTAL		11.1	8.9	60.0	20.0	.0	.0	100.0	4.2	

90.4% DATA RECOVERED
6.9% 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 10/ 1/1996 - 10/31/1996
0 - 2400 (PST)

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	4.0	.0	.0	.0	4.0	5.2	N
NNE	2	.0	.0	8.0	.0	.0	.0	8.0	4.0	NNE
NE	3	8.0	.0	8.0	.0	.0	.0	16.0	2.8	NE
ENE	4	.0	4.0	.0	.0	.0	.0	4.0	2.4	ENE
E	5	4.0	4.0	.0	.0	.0	.0	8.0	1.8	E
ESE	6	8.0	.0	.0	.0	.0	.0	8.0	.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	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	4.0	.0	.0	.0	.0	.0	4.0	.7	SSW
SW	11	.0	.0	12.0	12.0	.0	.0	24.0	5.0	SW
WSW	12	.0	.0	8.0	8.0	.0	.0	16.0	5.2	WSW
W	13	.0	.0	4.0	.0	.0	.0	4.0	4.6	W
WNW	14	.0	.0	4.0	.0	.0	.0	4.0	4.0	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		24.0	8.0	48.0	20.0	.0	.0	100.0	3.7	

84.1% DATA RECOVERED
4.0% 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/ 1/1996 - 11/30/1996
0 - 2400 (PST)

STABILITY CLASS C
2.5 - 3.5

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	7.1	3.6	.0	.0	10.7	4.8	N
NNE	2	.0	.0	3.6	.0	.0	.0	3.6	4.5	NNE
NE	3	3.6	7.1	14.3	.0	.0	.0	25.0	3.5	NE
ENE	4	7.1	.0	.0	.0	.0	.0	7.1	1.1	ENE
E	5	10.7	.0	.0	.0	.0	.0	10.7	1.1	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	3.6	.0	.0	.0	.0	.0	3.6	.7	SE
SSE	8	10.7	.0	.0	.0	.0	.0	10.7	1.0	SSE
S	9	3.6	.0	.0	.0	.0	.0	3.6	1.3	S
SSW	10	.0	.0	.0	.0	.0	.0	.0	.0	SSW
SW	11	10.7	.0	.0	.0	.0	.0	10.7	1.3	SW
WSW	12	.0	.0	.0	.0	.0	.0	.0	.0	WSW
W	13	3.6	.0	.0	.0	.0	.0	3.6	.7	W
WNW	14	3.6	.0	.0	.0	.0	.0	3.6	1.6	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		7.1						7.1		
TOTAL		64.3	7.1	25.0	3.6	.0	.0	100.0	2.1	

75.1% 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 12/ 1/1996 - 12/31/1996
0 - 2400 (PST)

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	4.5	.0	.0	.0	.0	.0	4.5	1.2	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	9.1	.0	.0	.0	.0	.0	9.1	1.5	E
ESE	6	4.5	9.1	.0	.0	.0	.0	13.6	1.7	ESE
SE	7	9.1	.0	.0	.0	.0	.0	9.1	.8	SE
SSE	8	18.2	.0	.0	.0	.0	.0	18.2	1.0	SSE
S	9	4.5	.0	.0	.0	.0	.0	4.5	1.3	S
SSW	10	13.6	.0	4.5	.0	.0	.0	18.2	1.9	SSW
SW	11	4.5	.0	4.5	.0	.0	.0	9.1	2.6	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	9.1	.0	.0	.0	.0	.0	9.1	1.1	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		4.5						4.5		
TOTAL		81.8	9.1	9.1	.0	.0	.0	100.0	1.4	

58.7% 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

1/ 1/1996 - 1/31/1996
0 - 2400 (PST)

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	6.1	4.0	2.0	.0	13.1	5.9	N
NNE	2	1.0	1.0	3.0	5.1	1.0	.0	11.1	5.4	NNE
NE	3	2.0	.0	3.0	6.1	.0	.0	11.1	5.1	NE
ENE	4	1.0	.0	1.0	1.0	.0	.0	3.0	3.8	ENE
E	5	.0	3.0	.0	.0	.0	.0	3.0	2.2	E
ESE	6	1.0	1.0	.0	.0	.0	.0	2.0	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	5.1	.0	.0	.0	.0	5.1	2.6	S
SSW	10	1.0	4.0	2.0	3.0	3.0	1.0	14.1	6.2	SSW
SW	11	1.0	1.0	7.1	1.0	2.0	5.1	17.2	6.8	SW
WSW	12	.0	1.0	.0	1.0	1.0	.0	3.0	6.8	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.0	1.0	.0	.0	.0	1.0	5.1	WNW
NW	15	.0	.0	.0	.0	2.0	1.0	3.0	9.9	NW
NNW	16	.0	.0	3.0	4.0	2.0	4.0	13.1	8.1	NNW
CALM		.0						.0		
TOTAL		7.1	17.2	26.3	25.3	13.1	11.1	100.0	5.9	

74.2% DATA RECOVERED
17.9% 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 (PERGENT OF VALID HOUR OBSERVATIONS)

SPILL TEST FACILITY 24 METER TOWER

8 METER HEIGHT - Total Hours 2/ 1/1996 - 2/29/1996
0 - 2400 (PST)

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	1.6	.0	.0	.0	.0	2.5	1.9	N
NNE	2	.0	.8	.0	.0	.0	.0	.8	2.0	NNE
NE	3	.8	.0	.0	.0	.0	.0	.8	1.1	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	.0	2.5	.0	.0	.0	2.5	4.6	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.8	.0	.0	.0	.0	.0	.8	.9	SE
SSE	8	1.6	.8	.0	.0	.0	.0	2.5	1.6	SSE
S	9	2.5	1.6	.8	.0	.0	.0	4.9	1.9	S
SSW	10	2.5	9.0	3.3	6.6	4.1	8.2	33.6	6.8	SSW
SW	11	1.6	11.5	5.7	7.4	4.9	5.7	36.9	6.0	SW
WSW	12	1.6	1.6	4.1	.8	.8	.0	9.0	4.0	WSW
W	13	1.6	.8	.0	.0	.0	.0	2.5	1.4	W
WNW	14	.0	1.6	.0	.8	.0	.0	2.5	3.6	WNW
NW	15	.0	.8	.0	.0	.0	.0	.8	1.8	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0						.0		
TOTAL		13.9	30.3	16.4	15.6	9.8	13.9	100.0	5.3	

83.8% 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 - Total Hours

3/ 1/1996 - 3/31/1996
0 - 2400 (PST)

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	5.0	2.5	2.5	1.2	11.2	6.6	N
NNE	2	.0	.6	4.3	6.8	.6	1.2	13.7	6.8	NNE
NE	3	.0	.6	1.2	2.5	.0	.6	5.0	6.2	NE
ENE	4	.0	1.2	.0	.0	.0	.0	1.2	2.6	ENE
E	5	.0	.6	.0	.0	.0	.0	.6	3.2	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.6	.6	.0	.0	.0	.0	1.2	2.1	SE
SSE	8	.6	.0	.0	.0	.0	.0	.6	.7	SSE
S	9	.6	.6	.0	.0	.0	.0	1.2	2.0	S
SSW	10	.0	4.3	.6	1.9	2.5	8.7	18.0	9.0	SSW
SW	11	.0	2.5	.6	14.9	6.8	.6	25.5	7.4	SW
WSW	12	.6	1.2	1.9	.6	.6	.0	5.0	4.4	WSW
W	13	.6	.0	.6	.0	.6	.0	1.9	5.1	W
WNW	14	.0	1.2	.0	.6	.0	.0	1.9	4.0	WNW
NW	15	.0	1.2	.6	2.5	1.2	1.2	6.8	7.2	NW
NNW	16	.0	.6	1.9	2.5	.6	.0	5.6	5.9	NNW
CALM		.6						.6		
TOTAL		3.7	15.5	16.8	34.8	15.5	13.7	100.0	6.8	

82.7% 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

8 METER HEIGHT - Total Hours 4/ 1/1996 - 4/30/1996
0 - 2400 (PST)

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	2.8	3.6	.0	.0	6.4	5.6	N
NNE	2	.0	.8	2.0	7.6	2.4	.0	12.7	6.7	NNE
NE	3	.0	.8	2.8	5.6	2.0	.0	11.2	6.4	NE
ENE	4	.0	.8	.8	1.2	.0	.0	2.8	4.5	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	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	.0	.4	.0	.0	.4	.8	8.2	S
SSW	10	.4	1.6	.4	3.6	4.8	9.6	20.3	9.5	SSW
SW	11	1.2	2.0	.8	13.5	7.2	2.4	27.1	7.5	SW
WSW	12	.0	.0	.8	3.2	.4	.0	4.4	6.3	WSW
W	13	.0	.0	.0	.4	.4	.0	.8	7.7	W
WNW	14	.0	.4	.4	1.2	.4	.0	2.4	5.9	WNW
NW	15	.0	.8	2.0	3.6	.0	.0	6.4	5.7	NW
NNW	16	.0	.4	.8	2.8	.4	.0	4.4	6.2	NNW
CALM		.4						.4		
TOTAL		2.0	7.6	13.9	46.2	17.9	12.4	100.0	7.2	

96.8% DATA RECOVERED
36.0% 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/ 1/1996 - 5/31/1996
0 - 2400 (PST)

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	.4	4.3	2.2	.4	7.5	7.5	N
NNE	2	.0	.0	1.4	2.5	.7	.4	5.0	6.6	NNE
NE	3	.0	.0	.4	1.4	.7	.0	2.5	7.3	NE
ENE	4	.0	.4	.0	.4	.4	.0	1.1	6.7	ENE
E	5	.0	.0	.4	.7	.0	.0	1.1	5.8	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	.0	.4	.0	.0	.0	.4	3.5	SE
SSE	8	.0	.0	.4	.0	.0	.0	.4	3.3	SSE
S	9	.0	.0	.4	.0	.0	.0	.4	3.7	S
SSW	10	.0	.4	.7	5.4	5.4	5.4	17.2	9.3	SSW
SW	11	1.4	2.2	7.2	20.8	5.4	3.6	40.5	6.8	SW
WSW	12	.0	1.1	4.7	6.1	.4	.0	12.2	5.5	WSW
W	13	.4	.4	1.4	.7	.0	.0	2.9	4.4	W
WNW	14	.0	.0	.7	.7	.0	.0	1.4	5.4	WNW
NW	15	.0	.7	2.9	.7	.4	.0	4.7	4.7	NW
NNW	16	.4	.0	1.4	.4	.4	.4	2.9	5.8	NNW
CALM		.0						.0		
TOTAL		2.5	5.0	22.6	44.1	15.8	10.0	100.0	6.8	

100.0% DATA RECOVERED
37.5% 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 6/ 1/1996 - 6/30/1996
0 - 2400 (PST)

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	.5	.0	.0	.5	5.7	N
NNE	2	.0	.9	.0	.0	.0	.0	.9	2.6	NNE
NE	3	.0	1.9	.5	.0	.0	.0	2.3	3.1	NE
ENE	4	.0	.5	.0	.0	.0	.0	.5	1.9	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	.5	.5	.0	.0	.0	.9	2.7	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	.0	.5	.0	.0	.0	.5	3.5	S
SSW	10	.0	.5	.9	9.3	9.3	3.2	23.1	8.3	SSW
SW	11	.9	3.2	5.1	28.2	16.2	4.2	57.9	7.5	SW
WSW	12	1.4	1.4	4.6	2.8	.5	.0	10.6	4.5	WSW
W	13	.5	.9	.9	.0	.0	.0	2.3	3.0	W
WNW	14	.5	.0	.0	.0	.0	.0	.5	.9	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		3.2	9.7	13.0	40.7	25.9	7.4	100.0	7.0	

100.0% DATA RECOVERED
30.0% 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/ 1/1996 - 7/31/1996
0 - 2400 (PST)

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	1.4	1.0	.5	.0	3.3	5.5	N
NNE	2	.5	.5	1.9	1.0	1.0	.0	4.8	5.3	NNE
NE	3	.5	3.8	1.9	.5	.0	.0	6.7	3.3	NE
ENE	4	.5	1.4	.0	.5	.0	.0	2.4	3.4	ENE
E	5	.0	.0	.5	.5	.0	1.0	1.9	9.6	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	.5	2.4	1.4	.0	.0	4.3	4.5	SE
SSE	8	.0	.0	.5	.0	.0	.0	.5	4.1	SSE
S	9	.0	.5	.5	.5	.5	.0	1.9	6.1	S
SSW	10	.0	3.3	.0	6.7	2.9	.0	12.9	6.7	SSW
SW	11	1.4	4.8	5.7	25.8	8.1	.5	46.4	6.5	SW
WSW	12	.5	2.9	3.3	1.9	.0	.0	8.6	4.1	WSW
W	13	.0	.5	.0	.5	.0	.0	1.0	3.9	W
WNW	14	.0	.0	.0	.0	.0	.0	.0	.0	WNW
NW	15	.0	1.0	.5	1.0	.0	.0	2.4	4.6	NW
NNW	16	.0	1.0	.0	1.4	.5	.0	2.9	6.0	NNW
CALM		.0						.0		
TOTAL		3.3	20.6	18.7	42.6	13.4	1.4	100.0	5.8	

100.0% DATA RECOVERED
28.1% 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/ 1/1996 - 8/31/1996
0 - 2400 (PST)

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	.6	.6	.0	.6	.0	1.7	5.6	NNE
NE	3	.0	1.1	1.1	1.1	.0	.0	3.3	4.3	NE
ENE	4	.0	.6	.0	.0	.0	.0	.6	2.2	ENE
E	5	.0	.6	1.1	.6	.0	.0	2.2	4.2	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.6	.0	.6	.6	.0	.0	1.7	3.8	SE
SSE	8	.0	.6	.0	1.7	.6	.0	2.8	6.6	SSE
S	9	.0	.0	.6	.6	.0	.6	1.7	7.6	S
SSW	10	.0	2.8	.6	8.3	7.8	.0	19.4	7.4	SSW
SW	11	1.7	6.1	8.3	23.3	16.1	1.7	57.2	6.8	SW
WSW	12	1.1	1.1	2.8	.0	.0	.0	5.0	3.4	WSW
W	13	.6	1.1	.0	.0	.0	.0	1.7	2.4	W
WNW	14	.0	.0	1.1	.0	.0	.0	1.1	4.1	WNW
NW	15	.0	.0	1.1	.0	.0	.0	1.1	3.9	NW
NNW	16	.0	.6	.0	.0	.0	.0	.6	2.9	NNW
CALM		.0						.0		
TOTAL		3.9	15.0	17.8	36.1	25.0	2.2	100.0	6.4	

98.4% DATA RECOVERED
24.6% 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

9/ 1/1996 - 9/30/1996
0 - 2400 (PST)

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	.7	1.4	1.4	1.4	.0	.0	4.8	4.0	NNE
NE	3	.7	.0	.7	.0	.0	.0	1.4	2.7	NE
ENE	4	.0	.0	.7	.0	.0	.0	.7	3.5	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	.7	.0	.0	.0	.0	.0	.7	1.6	ESE
SE	7	.0	.7	2.1	.7	.0	.0	3.4	4.4	SE
SSE	8	.7	.7	.0	.0	.0	.0	1.4	1.7	SSE
S	9	.0	.7	.7	.0	.0	.0	1.4	3.5	S
SSW	10	.0	.7	.0	9.6	4.8	1.4	16.4	8.2	SSW
SW	11	1.4	.7	6.2	34.9	6.8	2.1	52.1	7.1	SW
WSW	12	.0	1.4	2.7	3.4	.0	.0	7.5	5.2	WSW
W	13	.7	.0	.7	1.4	.0	.0	2.7	4.5	W
WNW	14	.0	.0	.0	1.4	.0	.0	1.4	7.3	WNW
NW	15	.7	1.4	1.4	1.4	.0	.0	4.8	3.9	NW
NNW	16	.0	.7	.7	.0	.0	.0	1.4	3.2	NNW
CALM		.0						.0		
TOTAL		5.5	8.2	17.1	54.1	11.6	3.4	100.0	6.4	

90.4% DATA RECOVERED
22.4% 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 10/ 1/1996 - 10/31/1996
0 - 2400 (PST)

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	.7	2.1	2.1	.0	5.7	7.2	N
NNE	2	.0	.7	3.5	12.1	2.8	.0	19.1	6.5	NNE
NE	3	.0	1.4	4.3	1.4	2.1	.0	9.2	5.7	NE
ENE	4	.0	2.1	3.5	3.5	.7	.0	9.9	5.1	ENE
E	5	.7	1.4	.0	.0	.0	.0	2.1	2.3	E
ESE	6	.7	.0	.0	.0	.0	.0	.7	1.5	ESE
SE	7	.7	.7	.0	.0	.0	.0	1.4	2.0	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.7	.0	.0	.0	.0	.0	.7	1.1	S
SSW	10	.0	.0	2.1	2.1	2.1	.0	6.4	6.6	SSW
SW	11	.0	2.8	1.4	12.1	2.8	.0	19.1	6.6	SW
WSW	12	.7	1.4	1.4	4.3	.0	.0	7.8	5.0	WSW
W	13	.7	.7	.7	1.4	.0	.0	3.5	3.9	W
WNW	14	.0	1.4	2.1	.0	.0	.0	3.5	3.5	WNW
NW	15	.0	3.5	2.1	.0	.7	.0	6.4	4.5	NW
NNW	16	.0	2.1	.7	.0	.7	.7	4.3	5.5	NNW
CALM		.0						.0		
TOTAL		4.3	19.1	22.7	39.0	14.2	.7	100.0	5.6	

84.1% DATA RECOVERED
22.5% 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/ 1/1996 - 11/30/1996
0 - 2400 (PST)

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	4.5	6.8	1.5	.0	12.9	6.3	N
NNE	2	.0	3.8	8.3	14.4	1.5	.0	28.0	5.5	NNE
NE	3	.0	1.5	10.6	1.5	.0	.0	13.6	4.3	NE
ENE	4	.0	2.3	3.8	.8	.0	.0	6.8	4.1	ENE
E	5	3.0	.8	.8	.8	.0	.0	5.3	2.8	E
ESE	6	.0	.0	.8	.0	.0	.0	.8	4.0	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.8	.0	.0	.0	.0	.0	.8	1.1	SSE
S	9	.8	.0	.0	.0	.0	.0	.8	1.6	S
SSW	10	.8	.8	2.3	.8	3.0	.0	7.6	5.9	SSW
SW	11	.8	2.3	2.3	3.0	4.5	.0	12.9	6.3	SW
WSW	12	.8	4.5	2.3	.0	.0	.0	7.6	2.8	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	.0	.8	.0	.0	.0	.0	.8	2.1	WNW
NW	15	.0	.0	.0	.0	.0	.0	.0	.0	NW
NNW	16	.0	.0	.8	.0	.8	.0	1.5	6.9	NNW
CALM		.8						.8		
TOTAL		7.6	16.7	36.4	28.0	11.4	.0	100.0	5.0	

75.1% DATA RECOVERED
24.4% 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 12/ 1/1996 - 12/31/1996
0 - 2400 (PST)

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	.0	.0	.0	.0	.0	NNE
NE	3	2.2	.0	.0	.0	.0	.0	2.2	1.2	NE
ENE	4	3.3	1.1	.0	.0	.0	.0	4.3	1.8	ENE
E	5	2.2	.0	.0	.0	.0	.0	2.2	1.3	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	1.1	.0	.0	.0	.0	1.1	2.9	SE
SSE	8	1.1	2.2	.0	.0	.0	.0	3.3	2.0	SSE
S	9	.0	.0	1.1	.0	.0	.0	1.1	4.5	S
SSW	10	.0	1.1	2.2	14.1	12.0	14.1	43.5	9.2	SSW
SW	11	1.1	3.3	5.4	8.7	4.3	4.3	27.2	7.0	SW
WSW	12	1.1	1.1	3.3	3.3	.0	.0	8.7	4.9	WSW
W	13	.0	.0	.0	.0	.0	.0	.0	.0	W
WNW	14	1.1	.0	.0	.0	.0	.0	1.1	.8	WNW
NW	15	.0	1.1	1.1	.0	.0	.0	2.2	3.1	NW
NNW	16	.0	1.1	2.2	.0	.0	.0	3.3	4.2	NNW
CALM		.0						.0		
TOTAL		12.0	12.0	15.2	26.1	16.3	18.5	100.0	6.8	

58.7% 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 - Total Hours

1/ 1/1996 - 1/31/1996
0 - 2400 (PST)

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	12.1	.0	.0	.0	.0	.0	12.1	1.4	N
NNE	2	3.0	.0	.0	.0	.0	.0	3.0	1.8	NNE
NE	3	3.0	6.1	.0	.0	.0	.0	9.1	1.9	NE
ENE	4	.0	3.0	.0	.0	.0	.0	3.0	1.9	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	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	3.0	.0	.0	.0	.0	.0	3.0	.9	S
SSW	10	6.1	6.1	3.0	.0	.0	.0	15.2	2.0	SSW
SW	11	3.0	21.2	.0	.0	.0	.0	24.2	2.2	SW
WSW	12	3.0	9.1	.0	.0	.0	.0	12.1	2.1	WSW
W	13	6.1	.0	.0	.0	.0	.0	6.1	1.7	W
WNW	14	3.0	3.0	.0	.0	.0	.0	6.1	1.6	WNW
NW	15	.0	3.0	.0	.0	.0	.0	3.0	2.3	NW
NNW	16	.0	3.0	.0	.0	.0	.0	3.0	3.2	NNW
CALM		.0						.0		
TOTAL		42.4	54.5	3.0	.0	.0	.0	100.0	1.9	

74.2% 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

2/ 1/1996 - 2/29/1996
0 - 2400 (PST)

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	2.6	2.6	.0	.0	.0	.0	5.3	1.8	N
NNE	2	.0	2.6	.0	.0	.0	.0	2.6	2.2	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	2.6	5.3	.0	.0	.0	.0	7.9	1.8	ENE
E	5	.0	2.6	2.6	.0	.0	.0	5.3	3.2	E
ESE	6	2.6	.0	.0	.0	.0	.0	2.6	1.3	ESE
SE	7	2.6	.0	.0	.0	.0	.0	2.6	.9	SE
SSE	8	.0	2.6	.0	.0	.0	.0	2.6	2.8	SSE
S	9	2.6	2.6	.0	.0	.0	.0	5.3	1.9	S
SSW	10	2.6	2.6	.0	.0	.0	.0	5.3	2.3	SSW
SW	11	5.3	18.4	7.9	.0	.0	.0	31.6	2.8	SW
WSW	12	5.3	2.6	2.6	.0	.0	.0	10.5	2.3	WSW
W	13	.0	2.6	.0	.0	.0	.0	2.6	2.1	W
WNW	14	2.6	.0	.0	.0	.0	.0	2.6	1.8	WNW
NW	15	2.6	5.3	2.6	.0	.0	.0	10.5	2.4	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		2.6						2.6		
TOTAL		34.2	50.0	15.8	.0	.0	.0	100.0	2.3	

83.8% DATA RECOVERED
6.5% 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

3/ 1/1996 - 3/31/1996
0 - 2400 (PST)

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	6.9	.0	.0	.0	6.9	4.4	N
NNE	2	3.4	6.9	3.4	.0	.0	.0	13.8	2.7	NNE
NE	3	.0	3.4	3.4	.0	.0	.0	6.9	3.2	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	.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	3.4	.0	.0	.0	.0	3.4	3.0	SSW
SW	11	.0	17.2	6.9	.0	.0	.0	24.1	2.7	SW
WSW	12	3.4	6.9	6.9	.0	.0	.0	17.2	2.7	WSW
W	13	6.9	.0	3.4	.0	.0	.0	10.3	2.4	W
WNW	14	3.4	.0	.0	.0	.0	.0	3.4	.8	WNW
NW	15	.0	3.4	.0	.0	.0	.0	3.4	3.1	NW
NNW	16	.0	6.9	3.4	.0	.0	.0	10.3	3.7	NNW
CALM		.0						.0		
TOTAL		17.2	48.3	34.5	.0	.0	.0	100.0	2.9	

82.7% DATA RECOVERED
4.7% 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 4/ 1/1996 - 4/30/1996
0 - 2400 (PST)

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	1.7	5.0	.0	.0	.0	6.7	3.7	N
NNE	2	.0	5.0	3.3	.0	.0	.0	8.3	3.3	NNE
NE	3	.0	1.7	.0	.0	.0	.0	1.7	2.5	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	1.7	.0	.0	.0	.0	1.7	3.1	E
ESE	6	.0	.0	.0	.0	.0	.0	.0	.0	ESE
SE	7	.0	1.7	.0	.0	.0	.0	1.7	1.9	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	.0	3.3	.0	.0	.0	.0	3.3	1.9	S
SSW	10	3.3	6.7	1.7	.0	.0	.0	11.7	2.1	SSW
SW	11	11.7	10.0	8.3	.0	.0	.0	30.0	2.5	SW
WSW	12	1.7	6.7	1.7	.0	.0	.0	10.0	2.6	WSW
W	13	3.3	5.0	.0	.0	.0	.0	8.3	1.8	W
WNW	14	.0	1.7	1.7	.0	.0	.0	3.3	3.3	WNW
NW	15	.0	3.3	3.3	.0	.0	.0	6.7	3.7	NW
NNW	16	.0	5.0	1.7	.0	.0	.0	6.7	3.1	NNW
CALM		.0						.0		
TOTAL		20.0	53.3	26.7	.0	.0	.0	100.0	2.7	

96.8% DATA RECOVERED
8.6% 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

5/ 1/1996 - 5/31/1996
0 - 2400 (PST)

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	2.2	4.3	.0	.0	.0	.0	6.5	2.4	N
NNE	2	6.5	2.2	2.2	.0	.0	.0	10.9	2.5	NNE
NE	3	2.2	4.3	.0	.0	.0	.0	6.5	2.3	NE
ENE	4	2.2	2.2	.0	.0	.0	.0	4.3	1.7	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	2.6	SE
SSE	8	.0	.0	.0	.0	.0	.0	.0	.0	SSE
S	9	2.2	2.2	2.2	.0	.0	.0	6.5	2.5	S
SSW	10	2.2	6.5	.0	.0	.0	.0	8.7	2.5	SSW
SW	11	2.2	10.9	4.3	.0	.0	.0	17.4	2.5	SW
WSW	12	2.2	6.5	8.7	.0	.0	.0	17.4	3.0	WSW
W	13	2.2	2.2	2.2	.0	.0	.0	6.5	2.5	W
WNW	14	.0	4.3	.0	.0	.0	.0	4.3	3.0	WNW
NW	15	.0	4.3	.0	.0	.0	.0	4.3	2.3	NW
NNW	16	.0	2.2	.0	.0	.0	.0	2.2	2.1	NNW
CALM		2.2						2.2		
TOTAL		26.1	54.3	19.6	.0	.0	.0	100.0	2.5	

100.0% 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 6/ 1/1996 - 6/30/1996
0 - 2400 (PST)

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	6.8	.0	.0	.0	.0	6.8	2.8	NNE
NE	3	2.3	2.3	2.3	.0	.0	.0	6.8	2.5	NE
ENE	4	.0	.0	.0	.0	.0	.0	.0	.0	ENE
E	5	.0	2.3	.0	.0	.0	.0	2.3	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	.0	2.3	.0	.0	.0	2.3	4.7	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	.0	2.3	6.8	.0	.0	.0	9.1	4.0	SSW
SW	11	4.5	13.6	15.9	.0	.0	.0	34.1	3.2	SW
WSW	12	6.8	9.1	6.8	.0	.0	.0	22.7	2.5	WSW
W	13	6.8	.0	2.3	.0	.0	.0	9.1	1.9	W
WNW	14	2.3	2.3	.0	.0	.0	.0	4.5	1.6	WNW
NW	15	2.3	.0	.0	.0	.0	.0	2.3	1.6	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		.0						.0		
TOTAL		25.0	38.6	36.4	.0	.0	.0	100.0	2.8	

100.0% DATA RECOVERED
6.1% 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/ 1/1996 - 7/31/1996
0 - 2400 (PST)

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	9.3	.0	.0	.0	.0	9.3	2.7	NNE
NE	3	.0	4.7	.0	.0	.0	.0	4.7	2.1	NE
ENE	4	.0	7.0	2.3	.0	.0	.0	9.3	2.7	ENE
E	5	2.3	.0	.0	.0	.0	.0	2.3	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	2.3	.0	.0	.0	2.3	3.4	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	2.3	.0	4.7	.0	.0	.0	7.0	2.6	SSW
SW	11	20.9	16.3	14.0	.0	.0	.0	51.2	2.6	SW
WSW	12	2.3	2.3	.0	.0	.0	.0	4.7	2.1	WSW
W	13	2.3	.0	.0	.0	.0	.0	2.3	1.5	W
WNW	14	.0	2.3	.0	.0	.0	.0	2.3	2.2	WNW
NW	15	.0	2.3	.0	.0	.0	.0	2.3	2.3	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		2.3						2.3		
TOTAL		32.6	44.2	23.3	.0	.0	.0	100.0	2.4	

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

8/ 1/1996 - 8/31/1996
0 - 2400 (PST)

STABILITY CLASS E
4.5 - 5.5

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	1.9	.0	.0	.0	.0	1.9	3.0	N
NNE	2	.0	5.7	1.9	.0	.0	.0	7.5	3.1	NNE
NE	3	3.8	3.8	.0	.0	.0	.0	7.5	2.1	NE
ENE	4	.0	3.8	.0	.0	.0	.0	3.8	2.5	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	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	1.9	5.7	.0	.0	.0	.0	7.5	2.1	SSE
S	9	.0	1.9	.0	.0	.0	.0	1.9	1.9	S
SSW	10	1.9	3.8	1.9	.0	.0	.0	7.5	2.2	SSW
SW	11	3.8	20.8	18.9	.0	.0	.0	43.4	3.0	SW
WSW	12	.0	3.8	3.8	.0	.0	.0	7.5	3.4	WSW
W	13	3.8	.0	1.9	.0	.0	.0	5.7	2.6	W
WNW	14	.0	1.9	.0	.0	.0	.0	1.9	1.9	WNW
NW	15	.0	1.9	.0	.0	.0	.0	1.9	2.9	NW
NNW	16	.0	.0	.0	.0	.0	.0	.0	.0	NNW
CALM		1.9						1.9		
TOTAL		17.0	54.7	28.3	.0	.0	.0	100.0	2.7	

98.4% DATA RECOVERED
7.2% 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/ 1/1996 - 9/30/1996
0 - 2400 (PST)

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	3.9	3.9	2.6	.0	.0	.0	10.4	2.3	N
NNE	2	.0	.0	7.8	.0	.0	.0	7.8	4.0	NNE
NE	3	.0	2.6	.0	.0	.0	.0	2.6	2.4	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	1.3	.0	.0	.0	.0	1.3	2.0	SE
SSE	8	1.3	1.3	.0	.0	.0	.0	2.6	1.9	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	3.9	6.5	1.3	.0	.0	.0	11.7	2.4	SSW
SW	11	5.2	2.6	10.4	.0	.0	.0	18.2	2.8	SW
WSW	12	2.6	6.5	13.0	.0	.0	.0	22.1	3.0	WSW
W	13	5.2	3.9	1.3	.0	.0	.0	10.4	1.9	W
WNW	14	1.3	1.3	.0	.0	.0	.0	2.6	1.4	WNW
NW	15	3.9	1.3	.0	.0	.0	.0	5.2	1.6	NW
NNW	16	2.6	1.3	.0	.0	.0	.0	3.9	1.8	NNW
CALM		1.3						1.3		
TOTAL		31.2	32.5	36.4	.0	.0	.0	100.0	2.5	

90.4% DATA RECOVERED
11.8% 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 10/ 1/1996 - 10/31/1996
0 - 2400 (PST)

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	2.3	11.4	.0	.0	.0	13.6	3.5	N
NNE	2	.0	.0	4.5	.0	.0	.0	4.5	4.7	NNE
NE	3	.0	.0	.0	.0	.0	.0	.0	.0	NE
ENE	4	.0	2.3	.0	.0	.0	.0	2.3	2.9	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	.0	2.3	.0	.0	.0	2.3	3.3	SE
SSE	8	2.3	2.3	.0	.0	.0	.0	4.5	1.6	SSE
S	9	4.5	2.3	.0	.0	.0	.0	6.8	2.0	S
SSW	10	.0	4.5	2.3	.0	.0	.0	6.8	3.0	SSW
SW	11	4.5	6.8	2.3	.0	.0	.0	13.6	2.4	SW
WSW	12	4.5	9.1	6.8	.0	.0	.0	20.5	2.8	WSW
W	13	.0	2.3	.0	.0	.0	.0	2.3	3.2	W
WNW	14	4.5	4.5	2.3	.0	.0	.0	11.4	2.3	WNW
NW	15	.0	6.8	.0	.0	.0	.0	6.8	2.1	NW
NNW	16	.0	2.3	.0	.0	.0	.0	2.3	2.1	NNW
CALM		2.3						2.3		
TOTAL		22.7	45.5	31.8	.0	.0	.0	100.0	2.7	

84.1% DATA RECOVERED
7.0% 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/ 1/1996 - 11/30/1996
0 - 2400 (PST)

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	2.3	2.3	.0	.0	.0	4.5	3.5	N
NNE	2	.0	2.3	9.1	.0	.0	.0	11.4	4.3	NNE
NE	3	.0	2.3	4.5	.0	.0	.0	6.8	3.6	NE
ENE	4	2.3	2.3	.0	.0	.0	.0	4.5	2.3	ENE
E	5	.0	.0	.0	.0	.0	.0	.0	.0	E
ESE	6	.0	2.3	.0	.0	.0	.0	2.3	3.1	ESE
SE	7	.0	.0	.0	.0	.0	.0	.0	.0	SE
SSE	8	.0	2.3	.0	.0	.0	.0	2.3	3.2	SSE
S	9	.0	.0	.0	.0	.0	.0	.0	.0	S
SSW	10	9.1	.0	2.3	.0	.0	.0	11.4	2.1	SSW
SW	11	9.1	13.6	2.3	.0	.0	.0	25.0	2.2	SW
WSW	12	4.5	2.3	2.3	.0	.0	.0	9.1	2.3	WSW
W	13	2.3	2.3	.0	.0	.0	.0	4.5	2.4	W
WNW	14	4.5	.0	.0	.0	.0	.0	4.5	1.3	WNW
NW	15	.0	4.5	.0	.0	.0	.0	4.5	2.8	NW
NNW	16	.0	9.1	.0	.0	.0	.0	9.1	2.2	NNW
CALM		.0						.0		
TOTAL		31.8	45.5	22.7	.0	.0	.0	100.0	2.6	

75.1% 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 12/ 1/1996 - 12/31/1996
0 - 2400 (PST)

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	2.4	2.4	.0	.0	.0	.0	4.8	1.6	NNE
NE	3	2.4	.0	.0	.0	.0	.0	2.4	1.0	NE
ENE	4	2.4	.0	.0	.0	.0	.0	2.4	1.6	ENE
E	5	.0	4.8	.0	.0	.0	.0	4.8	2.0	E
ESE	6	2.4	.0	.0	.0	.0	.0	2.4	1.5	ESE
SE	7	4.8	.0	.0	.0	.0	.0	4.8	1.4	SE
SSE	8	.0	4.8	.0	.0	.0	.0	4.8	2.5	SSE
S	9	2.4	.0	.0	.0	.0	.0	2.4	1.2	S
SSW	10	4.8	4.8	.0	.0	.0	.0	9.5	1.6	SSW
SW	11	7.1	2.4	2.4	.0	.0	.0	11.9	2.2	SW
WSW	12	2.4	11.9	7.1	.0	.0	.0	21.4	3.0	WSW
W	13	.0	7.1	.0	.0	.0	.0	7.1	2.8	W
WNW	14	.0	2.4	.0	.0	.0	.0	2.4	2.1	WNW
NW	15	7.1	7.1	.0	.0	.0	.0	14.3	2.1	NW
NNW	16	2.4	.0	.0	.0	.0	.0	2.4	1.1	NNW
CALM		2.4						2.4		
TOTAL		42.9	47.6	9.5	.0	.0	.0	100.0	2.1	

58.7% DATA RECOVERED
9.6% 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

1/ 1/1996 - 1/31/1996
0 - 2400 (PST)

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	4.6	1.4	.0	.0	.0	.0	6.0	1.4	N
NNE	2	3.5	.7	.0	.0	.0	.0	4.3	1.3	NNE
NE	3	6.7	1.8	.0	.0	.0	.0	8.5	1.3	NE
ENE	4	5.3	.7	.0	.0	.0	.0	6.0	1.1	ENE
E	5	1.1	.7	.0	.0	.0	.0	1.8	1.5	E
ESE	6	2.5	.0	.0	.0	.0	.0	2.5	1.3	ESE
SE	7	2.8	.7	.0	.0	.0	.0	3.5	1.3	SE
SSE	8	3.2	.0	.0	.0	.0	.0	3.2	1.0	SSE
S	9	4.3	.4	.0	.0	.0	.0	4.6	1.2	S
SSW	10	6.4	2.1	.0	.0	.0	.0	8.5	1.4	SSW
SW	11	11.7	2.1	.0	.0	.0	.0	13.8	1.4	SW
WSW	12	7.8	.7	.0	.0	.0	.0	8.5	1.3	WSW
W	13	6.0	.7	.0	.0	.0	.0	6.7	1.3	W
WNW	14	5.0	1.8	.0	.0	.0	.0	6.7	1.4	WNW
NW	15	5.3	2.1	.0	.0	.0	.0	7.4	1.5	NW
NNW	16	5.3	1.8	.0	.0	.0	.0	7.1	1.6	NNW
CALM		.7						.7		
TOTAL		82.3	17.7	.0	.0	.0	.0	100.0	1.3	

74.2% DATA RECOVERED
51.1% 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

2/ 1/1996 - 2/29/1996
0 - 2400 (PST)

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	6.6	1.1	.0	.0	.0	.0	7.7	1.4	N
NNE	2	6.6	.7	.0	.0	.0	.0	7.3	1.2	NNE
NE	3	4.8	1.1	.0	.0	.0	.0	5.9	1.4	NE
ENE	4	3.3	.0	.0	.0	.0	.0	3.3	1.2	ENE
E	5	1.8	.0	.0	.0	.0	.0	1.8	1.3	E
ESE	6	3.3	.0	.0	.0	.0	.0	3.3	1.0	ESE
SE	7	2.2	.0	.0	.0	.0	.0	2.2	1.0	SE
SSE	8	3.3	.4	.0	.0	.0	.0	3.7	1.2	SSE
S	9	8.4	.7	.0	.0	.0	.0	9.2	1.2	S
SSW	10	5.9	.4	.0	.0	.0	.0	6.2	1.0	SSW
SW	11	11.4	2.9	.0	.0	.0	.0	14.3	1.3	SW
WSW	12	5.5	1.1	.0	.0	.0	.0	6.6	1.3	WSW
W	13	4.8	.0	.0	.0	.0	.0	4.8	1.2	W
WNW	14	10.3	.0	.0	.0	.0	.0	10.3	1.1	WNW
NW	15	5.5	1.5	.0	.0	.0	.0	7.0	1.3	NW
NNW	16	4.0	.0	.0	.0	.0	.0	4.0	1.2	NNW
CALM		2.6						2.6		
TOTAL		90.1	9.9	.0	.0	.0	.0	100.0	1.2	

83.8% DATA RECOVERED
46.8% 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/ 1/1996 - 3/31/1996
0 - 2400 (PST)

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	1.2	.0	.0	.0	.0	6.0	1.5	N
NNE	2	5.6	1.6	.0	.0	.0	.0	7.2	1.3	NNE
NE	3	5.2	2.0	.0	.0	.0	.0	7.2	1.4	NE
ENE	4	3.6	2.0	.0	.0	.0	.0	5.6	1.6	ENE
E	5	2.0	1.2	.0	.0	.0	.0	3.2	1.5	E
ESE	6	2.0	.4	.0	.0	.0	.0	2.4	1.2	ESE
SE	7	1.2	.0	.0	.0	.0	.0	1.2	1.1	SE
SSE	8	4.8	.0	.0	.0	.0	.0	4.8	1.1	SSE
S	9	3.2	.0	.0	.0	.0	.0	3.2	1.0	S
SSW	10	7.2	.4	.0	.0	.0	.0	7.6	1.2	SSW
SW	11	11.6	2.8	.0	.0	.0	.0	14.4	1.3	SW
WSW	12	6.0	.0	.0	.0	.0	.0	6.0	1.1	WSW
W	13	9.6	.4	.0	.0	.0	.0	10.0	1.2	W
WNW	14	6.0	1.2	.0	.0	.0	.0	7.2	1.2	WNW
NW	15	4.0	.8	.0	.0	.0	.0	4.8	1.3	NW
NNW	16	7.2	1.2	.0	.0	.0	.0	8.4	1.3	NNW
CALM		.8						.8		
TOTAL		84.8	15.2	.0	.0	.0	.0	100.0	1.3	

82.7% DATA RECOVERED
40.7% 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 4/ 1/1996 - 4/30/1996
0 - 2400 (PST)

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	3.7	.0	.0	.0	.0	7.5	1.8	N
NNE	2	3.7	1.1	.0	.0	.0	.0	4.8	1.6	NNE
NE	3	3.7	1.6	.0	.0	.0	.0	5.3	1.7	NE
ENE	4	2.1	.0	.0	.0	.0	.0	2.1	1.3	ENE
E	5	2.1	.0	.0	.0	.0	.0	2.1	.9	E
ESE	6	.5	1.1	.0	.0	.0	.0	1.6	1.7	ESE
SE	7	2.1	.5	.0	.0	.0	.0	2.7	1.3	SE
SSE	8	2.1	.5	.0	.0	.0	.0	2.7	1.4	SSE
S	9	3.7	1.1	.0	.0	.0	.0	4.8	1.3	S
SSW	10	8.0	1.6	.0	.0	.0	.0	9.6	1.4	SSW
SW	11	12.8	1.1	.0	.0	.0	.0	13.9	1.3	SW
WSW	12	12.3	2.7	.0	.0	.0	.0	15.0	1.4	WSW
W	13	4.3	.5	.0	.0	.0	.0	4.8	1.2	W
WNW	14	5.3	.0	.0	.0	.0	.0	5.3	1.3	WNW
NW	15	5.3	2.7	.0	.0	.0	.0	8.0	1.6	NW
NNW	16	4.8	.5	.0	.0	.0	.0	5.3	1.4	NNW
CALM		4.3						4.3		
TOTAL		81.3	18.7	.0	.0	.0	.0	100.0	1.4	

96.8% DATA RECOVERED
26.8% 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

5/ 1/1996 - 5/31/1996
0 - 2400 (PST)

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	5.6	1.4	.0	.0	.0	.0	7.0	1.4	N
NNE	2	3.8	1.9	.0	.0	.0	.0	5.6	1.7	NNE
NE	3	3.3	2.3	.0	.0	.0	.0	5.6	1.6	NE
ENE	4	5.2	1.9	.0	.0	.0	.0	7.0	1.5	ENE
E	5	4.7	1.4	.0	.0	.0	.0	6.1	1.5	E
ESE	6	2.3	.5	.0	.0	.0	.0	2.8	1.1	ESE
SE	7	2.3	.0	.0	.0	.0	.0	2.3	1.1	SE
SSE	8	.9	.0	.0	.0	.0	.0	.9	1.2	SSE
S	9	1.4	.0	.0	.0	.0	.0	1.4	.7	S
SSW	10	5.2	1.9	.0	.0	.0	.0	7.0	1.5	SSW
SW	11	9.9	1.4	.0	.0	.0	.0	11.3	1.3	SW
WSW	12	9.9	4.2	.0	.0	.0	.0	14.1	1.5	WSW
W	13	6.6	.9	.0	.0	.0	.0	7.5	1.2	W
WNW	14	4.2	2.8	.0	.0	.0	.0	7.0	1.4	WNW
NW	15	3.8	.9	.0	.0	.0	.0	4.7	1.3	NW
NNW	16	5.2	.0	.0	.0	.0	.0	5.2	1.2	NNW
CALM		4.2						4.2		
TOTAL		78.4	21.6	.0	.0	.0	.0	100.0	1.3	

100.0% DATA RECOVERED
28.6% 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 6/ 1/1996 - 6/30/1996
0 - 2400 (PST)

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	.0	.0	.0	.0	.0	4.1	1.3	N
NNE	2	4.5	2.3	.0	.0	.0	.0	6.8	1.6	NNE
NE	3	4.5	2.3	.0	.0	.0	.0	6.8	1.5	NE
ENE	4	4.5	.5	.0	.0	.0	.0	5.0	1.3	ENE
E	5	2.7	.0	.0	.0	.0	.0	2.7	1.1	E
ESE	6	2.3	.0	.0	.0	.0	.0	2.3	1.1	ESE
SE	7	1.8	.0	.0	.0	.0	.0	1.8	1.1	SE
SSE	8	3.2	.5	.0	.0	.0	.0	3.6	1.2	SSE
S	9	2.7	.0	.0	.0	.0	.0	2.7	1.1	S
SSW	10	5.4	2.7	.0	.0	.0	.0	8.1	1.4	SSW
SW	11	13.1	3.2	.0	.0	.0	.0	16.2	1.3	SW
WSW	12	9.0	2.7	.0	.0	.0	.0	11.7	1.4	WSW
W	13	5.9	1.8	.0	.0	.0	.0	7.7	1.5	W
WNW	14	7.2	1.4	.0	.0	.0	.0	8.6	1.3	WNW
NW	15	2.3	1.8	.0	.0	.0	.0	4.1	1.6	NW
NNW	16	2.7	1.4	.0	.0	.0	.0	4.1	1.4	NNW
CALM		4.1						4.1		
TOTAL		79.7	20.3	.0	.0	.0	.0	100.0	1.3	

100.0% DATA RECOVERED
30.8% 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/ 1/1996 - 7/31/1996
0 - 2400 (PST)

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	4.0	2.4	.0	.0	.0	.0	6.5	1.6	N
NNE	2	5.2	2.8	.0	.0	.0	.0	8.1	1.5	NNE
NE	3	3.2	1.2	.0	.0	.0	.0	4.4	1.4	NE
ENE	4	1.2	1.6	.0	.0	.0	.0	2.8	1.7	ENE
E	5	5.2	.4	.0	.0	.0	.0	5.6	1.1	E
ESE	6	1.2	.4	.0	.0	.0	.0	1.6	1.3	ESE
SE	7	.8	.0	.0	.0	.0	.0	.8	1.4	SE
SSE	8	2.4	1.2	.0	.0	.0	.0	3.6	1.3	SSE
S	9	2.4	.4	.0	.0	.0	.0	2.8	1.2	S
SSW	10	5.2	1.2	.0	.0	.0	.0	6.5	1.4	SSW
SW	11	10.1	1.6	.0	.0	.0	.0	11.7	1.2	SW
WSW	12	8.9	1.2	.0	.0	.0	.0	10.1	1.4	WSW
W	13	8.1	1.6	.0	.0	.0	.0	9.7	1.4	W
WNW	14	5.6	2.0	.0	.0	.0	.0	7.7	1.3	WNW
NW	15	4.0	2.0	.0	.0	.0	.0	6.0	1.6	NW
NNW	16	5.2	2.0	.0	.0	.0	.0	7.3	1.6	NNW
CALM		4.8						4.8		
TOTAL		77.8	22.2	.0	.0	.0	.0	100.0	1.3	

100.0% DATA RECOVERED
33.3% 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

8/ 1/1996 - 8/31/1996
0 - 2400 (PST)

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	4.6	.8	.0	.0	.0	.0	5.3	1.4	N
NNE	2	6.5	1.5	.0	.0	.0	.0	8.0	1.3	NNE
NE	3	4.6	3.8	.0	.0	.0	.0	8.4	1.7	NE
ENE	4	2.7	.8	.0	.0	.0	.0	3.4	1.3	ENE
E	5	2.3	.4	.0	.0	.0	.0	2.7	1.4	E
ESE	6	1.5	1.1	.0	.0	.0	.0	2.7	1.8	ESE
SE	7	1.9	.4	.0	.0	.0	.0	2.3	1.1	SE
SSE	8	3.1	.4	.0	.0	.0	.0	3.4	1.3	SSE
S	9	3.1	.0	.0	.0	.0	.0	3.1	.9	S
SSW	10	9.9	1.5	.0	.0	.0	.0	11.5	1.2	SSW
SW	11	8.4	.4	.0	.0	.0	.0	8.8	1.1	SW
WSW	12	8.0	1.1	.0	.0	.0	.0	9.2	1.2	WSW
W	13	7.3	.0	.0	.0	.0	.0	7.3	1.1	W
WNW	14	4.6	1.9	.0	.0	.0	.0	6.5	1.4	WNW
NW	15	5.0	.8	.0	.0	.0	.0	5.7	1.2	NW
NNW	16	6.1	1.5	.0	.0	.0	.0	7.6	1.4	NNW
CALM		4.2						4.2		
TOTAL		83.6	16.4	.0	.0	.0	.0	100.0	1.2	

98.4% DATA RECOVERED
35.8% 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

9/ 1/1996 - 9/30/1996
0 - 2400 (PST)

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	3.5	2.7	.0	.0	.0	.0	6.2	1.7	N
NNE	2	4.9	1.3	.0	.0	.0	.0	6.2	1.4	NNE
NE	3	4.4	.9	.0	.0	.0	.0	5.3	1.5	NE
ENE	4	4.4	.9	.0	.0	.0	.0	5.3	1.3	ENE
E	5	3.5	.4	.0	.0	.0	.0	4.0	1.2	E
ESE	6	2.2	.0	.0	.0	.0	.0	2.2	1.0	ESE
SE	7	1.3	.0	.0	.0	.0	.0	1.3	.7	SE
SSE	8	2.2	.0	.0	.0	.0	.0	2.2	1.1	SSE
S	9	3.5	1.3	.0	.0	.0	.0	4.9	1.4	S
SSW	10	8.4	.4	.0	.0	.0	.0	8.8	1.1	SSW
SW	11	5.3	2.2	.0	.0	.0	.0	7.5	1.3	SW
WSW	12	11.1	.4	.0	.0	.0	.0	11.5	1.1	WSW
W	13	10.2	.4	.0	.0	.0	.0	10.6	1.3	W
WNW	14	4.4	.4	.0	.0	.0	.0	4.9	1.2	WNW
NW	15	8.0	1.3	.0	.0	.0	.0	9.3	1.3	NW
NNW	16	3.1	1.3	.0	.0	.0	.0	4.4	1.5	NNW
CALM		5.3						5.3		
TOTAL		85.8	14.2	.0	.0	.0	.0	100.0	1.2	

90.4% DATA RECOVERED
34.7% 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

10/ 1/1996 - 10/31/1996
0 - 2400 (PST)

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	1.5	.0	.0	.0	.0	5.6	1.5	N
NNE	2	3.7	.4	.0	.0	.0	.0	4.1	1.3	NNE
NE	3	6.3	1.5	.0	.0	.0	.0	7.8	1.2	NE
ENE	4	3.7	.7	.0	.0	.0	.0	4.5	1.2	ENE
E	5	2.6	1.1	.0	.0	.0	.0	3.7	1.3	E
ESE	6	1.1	.0	.0	.0	.0	.0	1.1	.7	ESE
SE	7	2.2	.0	.0	.0	.0	.0	2.2	1.0	SE
SSE	8	2.6	.4	.0	.0	.0	.0	3.0	1.1	SSE
S	9	4.1	.0	.0	.0	.0	.0	4.1	1.0	S
SSW	10	7.4	.7	.0	.0	.0	.0	8.2	1.0	SSW
SW	11	9.3	1.5	.0	.0	.0	.0	10.8	1.2	SW
WSW	12	10.8	1.1	.0	.0	.0	.0	11.9	1.3	WSW
W	13	8.9	.7	.0	.0	.0	.0	9.7	1.1	W
WNW	14	5.9	2.6	.0	.0	.0	.0	8.6	1.4	WNW
NW	15	3.0	1.5	.0	.0	.0	.0	4.5	1.6	NW
NNW	16	2.2	.0	.0	.0	.0	.0	2.2	1.2	NNW
CALM		8.2						8.2		
TOTAL		86.2	13.8	.0	.0	.0	.0	100.0	1.1	

84.1% DATA RECOVERED
43.0% 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/ 1/1996 - 11/30/1996
0 - 2400 (PST)

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	1.3	.0	.0	.0	.0	6.1	1.4	N
NNE	2	2.6	2.2	.0	.0	.0	.0	4.8	1.7	NNE
NE	3	3.5	.4	.0	.0	.0	.0	3.9	1.4	NE
ENE	4	2.2	.9	.0	.0	.0	.0	3.1	1.4	ENE
E	5	1.3	.9	.0	.0	.0	.0	2.2	1.2	E
ESE	6	1.7	.0	.0	.0	.0	.0	1.7	1.1	ESE
SE	7	3.5	.4	.0	.0	.0	.0	3.9	1.0	SE
SSE	8	1.7	.0	.0	.0	.0	.0	1.7	1.0	SSE
S	9	6.6	1.3	.0	.0	.0	.0	7.9	1.2	S
SSW	10	7.9	3.5	.0	.0	.0	.0	11.4	1.4	SSW
SW	11	8.3	3.9	.0	.0	.0	.0	12.2	1.4	SW
WSW	12	5.2	.4	.0	.0	.0	.0	5.7	1.3	WSW
W	13	7.9	.9	.0	.0	.0	.0	8.7	1.2	W
WNW	14	6.1	1.7	.0	.0	.0	.0	7.9	1.4	WNW
NW	15	5.7	.4	.0	.0	.0	.0	6.1	1.2	NW
NNW	16	3.5	1.7	.0	.0	.0	.0	5.2	1.5	NNW
CALM		7.4						7.4		
TOTAL		79.9	20.1	.0	.0	.0	.0	100.0	1.2	

75.1% DATA RECOVERED
42.3% 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/ 1/1996 - 12/31/1996
0 - 2400 (PST)

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	7.2	3.3	.0	.0	.0	.0	10.5	1.5	N
NNE	2	6.2	.5	.0	.0	.0	.0	6.7	1.3	NNE
NE	3	1.9	.5	.0	.0	.0	.0	2.4	1.5	NE
ENE	4	1.9	1.0	.0	.0	.0	.0	2.9	1.4	ENE
E	5	4.3	1.0	.0	.0	.0	.0	5.3	1.4	E
ESE	6	4.3	1.0	.0	.0	.0	.0	5.3	1.3	ESE
SE	7	3.8	.5	.0	.0	.0	.0	4.3	1.2	SE
SSE	8	2.9	.0	.0	.0	.0	.0	2.9	1.0	SSE
S	9	5.7	.5	.0	.0	.0	.0	6.2	1.1	S
SSW	10	6.2	1.4	.0	.0	.0	.0	7.7	1.5	SSW
SW	11	7.7	1.4	.0	.0	.0	.0	9.1	1.3	SW
WSW	12	8.6	1.0	.0	.0	.0	.0	9.6	1.3	WSW
W	13	7.7	1.0	.0	.0	.0	.0	8.6	1.4	W
WNW	14	6.2	1.0	.0	.0	.0	.0	7.2	1.3	WNW
NW	15	4.3	1.0	.0	.0	.0	.0	5.3	1.4	NW
NNW	16	4.3	1.0	.0	.0	.0	.0	5.3	1.4	NNW
CALM		1.0						1.0		
TOTAL		84.2	15.8	.0	.0	.0	.0	100.0	1.3	

58.7% DATA RECOVERED
47.8% 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, 1996
13-24	Richardson Number, One Half to Four Meter Layer, January-December, 1996
25-36	Richardson Number, Two to Sixteen Meter Layer, January-December, 1996

Monin-Obukhov Lengths Based on Richardson Numbers

37-48	Based on Richardson Number, One Quarter to Two Meter Layer, January-December, 1996
49-60	Based on Richardson Number, One Half to Four Meter Layer, January-December, 1996
61-72	Based on Richardson Number, Two to Sixteen Meter Layer, January-December, 1996

Temperature Difference Two to Sixteen Meters

73-84	Temperature Difference, Two to Sixteen Meter Layer, January-December, 1996

Sigma Theta Stability Classes

85-96	Eight Meter Sigma Theta Stability Class, January-December, 1996

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — JAN, 1996

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	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
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	46	100	36	29	116	30	11	18	24	24	90	94	60	43	43	141	44	21	14	25	37	30	29	36

PERCENT VALID HOURS FOR JAN, 1996 24*100/ 744= 3.2%

THREE HIGHEST VALUES FOR JAN, 1996 XXXX(DD,HH) = 141(31,15) 116(31, 4) 100(31, 1) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — FEB, 1996

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	28	34	36	41	65	40	56	44	124	131	1388	415	49	13	-3	1	6	7	16	24	18	24	26	36
2	73	64	79	61	24	57	34	39	52	63	8	144	6	-19	-2	1	4	16	10	49	96	42	83	36
3	27	18	49	44	63	51	56	48	138	89	252	71	49	101	101	83	101	76	23	21	34	58	26	30
4	98	77	29	64	50	26	49	39	122	95	354	683	46	38	45	34	81	56	90	22	30	35	35	24
5	30	35	36	100	23	23	70	22	37	20	66	59	25	2	33	27	6124	33	20	69	28	43	38	32
6	29	42	28	43	47	57	21	78	88	113	374	64	126	304	35	16	19	29	86	47	40	38	104	82
7	44	30	33	77	37	48	55	38	121	194	71	11	107	121	59	26	48	101	53	160	32	52	58	90
8	36	53	70	49	24	58	30	39	151	226	423	127	381	339	223	9	16	27	21	107	54	41	74	76
9	78	112	44	12	111	32	87	57	72	272	3514	1183	961	1792	300	82	35	59	34	30	34	59	96	84
10	113	126	99	100	114	91	77	254	152	432	2748	292	629	233	20	18	28	30	33	17	26	423	149	31
11	63	142	166	160	109	94	110	138	183	92	-44	180	63	27	6	5	5	14	34	51	88	116	22	104
12	155	314	25	28	24	29	19	29	27	34	67	77	1	2	3	6	6	26	30	46	27	24	68	53
13	508	152	53	66	28	64	99	432	135	80	619	69	19	5	-68	155	45	67	17	78	41	34	46	88
14	47	55	30	59	59	83	83	145	388	5428	1339	284	148	42	-12	7	13	20	20	96	75	28	64	41
15	74	56	95	51	37	52	44	78	----	333	1886	4658	1232	252	-7	2	8	17	33	96	39	112	229	38
16	81	40	43	49	33	28	93	40	344	118	105	73	-18	-8	-4	1	10	18	25	48	98	33	70	33
17	35	44	59	29	58	31	40	156	135	534	236	115	38	1	0	2	9	28	22	31	78	42	38	65
18	45	17	34	41	151	35	31	41	46	111	152	2701	0	100	-3	1	3	8	47	38	32	87	44	70
19	50	86	13	64	89	246	99	72	39	55	4	1	0	0	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	6	4	6	7	8	3	20	32
21	5	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
22	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
23	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
24	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
25	****	****	****	****	****	****	****	****	****	0	0	0	-1	-1	0	4	22	5	4	8	7	12	11	16
26	7	9	9	13	9	57	57	54	49	16	-1	-3	-2	-2	-3	-1	0	3	5	29	34	51	27	40
27	74	67	58	36	60	47	67	15	38	332	148	-91	-17	-25	-17	-1	3	3	6	20	23	19	32	****
28	434	****	1	****	144	****	5	1923	91	8	-81	11	1329	-56	-3	72	32	61	44	74	33	30	38	34
29	23	26	42	18	30	31	40	28	42	46	81	154	94	-23	156	7	38	49	30	33	109	111	21	30

PERCENT VALID HOURS FOR FEB, 1996 588*100/ 696= 84.5%

THREE HIGHEST VALUES FOR FEB, 1996 XXXX(DD,HH) = 6124(5,16) 5428(14, 9) 4658(15,11) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — MAR, 1996

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	66	33	30	43	47	34	67	96	33	14	112	-26	22	-6	-2	1	4	7	19	16	78	25	30	42
2	118	79	20	41	152	53	144	143	37	342	815	-36	-36	98	-80	-33	11	18	16	36	50	53	56	45
3	49	49	103	43	59	34	37	137	158	12	66	3471	54	12	5	31	126	203	26	23	23	33	29	105
4	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
5	****	****	****	****	****	****	****	****	****	0	-1	-1	-1	-1	0	0	0	1	2	1	2	2	1	3
6	15	22	11	98	99	39	61	25	23	0	-3	-14	-22	-9	-25	-2	4	14	20	72	27	26	59	27
7	110	48	97	53	48	22	49	48	30	25	924	10	11	22	-44	-29	13	152	37	30	46	98	45	24
8	39	66	45	67	42	76	73	49	390	58	17	2	-24	-1	-2	1	8	15	33	60	62	36	52	51
9	33	54	31	33	49	66	123	41	75	247	555	27	10	6	10	38	34	54	44	16	33	58	78	103
10	94	102	59	89	74	45	44	-75	41	353	16	-2	-2	-2	-1	0	2	8	22	39	73	71	97	87
11	40	51	78	44	38	34	64	50	113	273	51	-6	-4	-4	-4	-1	0	7	6	21	82	131	139	149
12	121	131	163	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	46	85	50	48	71	82	57	-10	-3	-1	-39	-52	-11	7	41	37	39	12	19	60	97
15	69	10	55	18	88	52	36	253	72	128	50	-45	-32	-13	-20	-4	13	38	19	16	20	33	34	62
16	79	232	85	118	57	33	24	44	21	8	0	-1	-2	-3	-4	-2	8	11	12	10	41	67	41	46
17	12	12	25	36	83	25	39	29	24	130	3	-16	-18	-17	-7	-7	9	9	19	21	111	41	20	18
18	14	14	43	51	30	37	166	50	448	539	-31	-31	-96	-75	-133	-21	28	71	112	23	22	47	58	22
19	89	139	117	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
21	****	****	****	75	59	98	303	407	263	++++	1180	442	-16	-6	-4	-2	1	5	20	19	57	63	162	58
22	59	75	74	132	58	58	60	58	56	42	-2	-2	-2	-2	-1	0	0	1	2	2	9	4	4	4
23	5	6	6	16	18	14	16	5	-4	-9	-9	-4	-2	-3	-4	-4	-1	1	4	7	12	20	12	17
24	8	9	25	42	18	5	9	-3	118	12	17	-89	-10	-8	-3	-1	0	3	4	13	12	57	47	70
25	79	34	57	43	55	23	40	82	-91	2	-19	-81	-88	-26	-14	-8	-7	2	1	0	1	4	3	3
26	5	4	3	4	5	3	5	2	-2	-7	-14	-41	-125	-149	-84	-47	-5	10	11	15	32	38	57	36
27	39	114	25	70	39	77	36	-21	15	7	83	272	-23	-17	-5	-3	0	2	14	35	74	42	60	32
28	54	52	55	55	74	45	84	11	4	-1	-1	-1	-1	-1	-1	0	0	0	1	1	1	2	3	4
29	8	89	129	136	33	35	7	14	-10	-6	-15	-90	-75	-71	-78	-52	-2	3	14	39	27	72	36	26
30	26	41	29	98	91	83	43	98	491	32	1	-64	-45	-16	-10	-6	-1	2	14	73	64	63	38	22
31	56	115	75	52	141	68	38	-179	-425	114	527	-35	-54	-37	-6	-2	0	2	7	13	73	57	97	67

PERCENT VALID HOURS FOR MAR, 1996 615*100/ 744= 82.7%

THREE HIGHEST VALUES FOR MAR, 1996 XXXX(DD,HH) = ++++(21, 9) 3471(3,11) 1180(21,10) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — APR, 1996

RICHARDSON NUMBER 1 TIMES 100 — RINUM1

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	122	49	55	62	70	60	84	117	25	-3	-2	-1	-1	-1	-1	0	0	1	1	1	3	2	2	2
2	2	4	4	6	13	30	53	31	-3	7	-21	-10	-16	-23	-27	-32	-4	4	10	17	35	98	68	40
3	28	25	57	61	96	92	209	36	16	-40	-201	-97	-109	-34	-15	-9	-3	5	8	11	44	144	80	38
4	49	19	10	28	29	11	12	1	-1	-3	-5	-6	-2	-3	-2	-2	0	3	10	15	9	8	6	6
5	7	6	4	6	9	7	5	1	0	-1	-3	-6	-8	-15	-13	-6	1	7	27	57	43	132	35	19
6	69	198	55	51	47	51	80	126	121	29	52	-66	-63	-57	-108	-24	9	19	70	45	32	167	106	31
7	66	74	229	98	47	74	73	17	166	81	-154	-146	-98	-88	-69	-27	-2	4	14	25	72	41	94	31
8	94	83	153	143	46	158	31	319	199	331	101	-23	-8	-6	-4	-2	0	2	10	94	182	268	56	85
9	31	186	81	80	23	18	98	192	75	113	-6	-2	-2	-1	-1	-1	0	2	5	7	22	21	17	30
10	25	60	28	35	25	113	93	158	104	25	-34	-19	-7	-5	-3	-2	0	1	6	12	10	15	10	63
11	51	54	19	44	85	26	13	1	-7	-8	-16	-30	-47	-43	-61	-17	-3	2	8	20	32	21	91	95
12	62	68	158	59	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	25	28	38	81	34	-2	-13	-24	-71	-78	-38	-53	-46	-1	4	10	17	108	63	7	21
14	8	9	24	48	53	30	20	25	12	-11	-9	-15	-23	-54	-80	-63	-19	10	53	82	21	43	23	122
15	54	76	105	36	104	27	32	-57	-4	408	126	-76	-103	-22	-15	-2	0	2	7	37	30	28	25	5
16	5	2	6	11	8	7	2	2	1	1	0	0	-1	-2	-1	0	0	0	1	2	1	1	1	2
17	3	4	5	6	6	4	1	0	-2	-3	-4	-5	-4	-4	-3	-1	0	1	2	2	1	1	1	1
18	1	1	1	1	1	1	1	0	-1	-2	-1	-6	-8	-8	-8	-7	-3	1	5	7	8	7	13	14
19	23	33	45	68	32	65	21	9	-8	-111	-115	-224	-91	-111	-28	-3	0	5	13	19	14	48	35	18
20	39	40	32	45	37	117	8	3	-6	-11	-12	-20	-75	-51	-25	2	18	16	101	26	8	29	33	29
21	51	30	125	22	40	43	42	7	-216	-175	-153	-77	-49	-20	-13	-15	-8	23	26	17	101	108	30	58
22	34	32	45	27	22	30	150	164	617	-126	-63	-39	-36	-20	-38	-17	-6	4	13	24	27	46	62	32
23	34	109	32	62	64	12	41	-140	56	----	436	-100	-28	-13	-6	-9	2	11	43	38	113	40	39	34
24	51	57	32	17	80	20	47	4	-11	43	-8	-5	-3	-3	-2	-1	1	2	6	8	4	6	36	43
25	55	49	23	29	18	26	8	1	-7	-8	-8	-13	-19	-20	-13	-4	-1	5	12	36	95	35	39	32
26	23	68	53	21	110	77	52	121	123	-128	-36	-121	-60	-8	-1	-1	0	2	9	89	174	28	86	50
27	17	28	24	251	83	29	25	18	-27	-11	-24	-38	-36	-16	-6	-3	-1	2	4	11	9	3	14	6
28	5	3	2	5	7	3	1	0	-1	-2	-2	-3	-4	-4	-4	-2	-1	3	5	10	7	8	6	7
29	14	147	37	55	37	94	21	16	-16	-28	-235	-95	-186	-126	-75	-145	-8	47	17	14	26	74	47	31
30	99	48	33	57	91	35	17	160	-29	-31	-58	-85	-14	-64	-24	-5	-1	2	6	14	9	9	8	28

PERCENT VALID HOURS FOR APR, 1996 697*100/ 720= 96.8%

THREE HIGHEST VALUES FOR APR, 1996 XXXX(DD,HH) = 617(22, 8) 436(23,10) 408(15, 9) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — MAY, 1996

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	36	42	51	86	41	57	192	71	2247	-45	-65	-26	-23	-19	-12	-11	-2	3	15	23	18	61	150	126
2	40	26	57	23	46	38	-73	306	++++	-140	-170	-10	-7	-5	-3	-3	-1	2	9	23	18	40	64	78
3	129	116	30	43	68	182	206	167	-23	-258	-70	-18	-8	-10	-5	-4	-1	2	10	33	27	27	37	29
4	69	41	27	34	60	222	139	78	-113	-59	-87	-77	-76	-15	-8	-4	0	3	9	13	54	47	65	92
5	113	91	89	38	27	24	26	139	129	-52	-49	-25	-10	-7	-5	-4	-2	3	13	25	184	45	98	49
6	43	76	103	61	50	60	677	-563	479	26	-144	-91	-9	-6	-4	-2	0	2	6	33	83	49	32	32
7	64	100	323	217	98	49	27	220	-3	-6	-8	-10	-12	-9	-6	-4	-1	3	8	52	27	25	42	37
8	92	92	23	16	87	189	73	329	-22	-36	-21	-23	-14	-8	-7	-3	-1	2	4	8	9	18	7	7
9	3	6	45	14	7	12	3	-2	-65	-106	-65	-24	-58	-124	-18	-29	-66	1	3	11	30	146	36	65
10	45	40	51	95	49	33	9	162	118	-86	-60	-50	-52	-70	-46	-22	-7	2	12	15	39	102	89	118
11	40	45	107	51	91	36	104	88	764	-212	-507	-37	-63	-53	-59	-8	0	7	17	22	35	55	227	122
12	38	75	47	39	58	65	351	2807	++++	++++	6194	-57	-33	-22	-20	-8	-1	2	6	17	14	27	45	94
13	67	75	148	109	154	91	39	188	-6	-12	-8	-6	-6	-5	-3	-2	-1	3	7	16	54	33	8	14
14	16	101	17	29	33	76	202	11	-4	-10	-16	-12	-13	-8	-5	-2	0	2	2	3	2	3	7	9
15	68	11	22	92	30	52	61	0	-5	-3	-5	-4	-2	-1	-1	-1	0	1	1	1	1	1	2	1
16	1	1	1	2	1	2	1	0	-1	-1	-1	-1	-2	-1	-1	-1	0	0	1	2	4	15	4	5
17	16	24	34	38	75	75	76	-7	-4	-9	-22	-92	-8	-3	-2	-1	0	1	3	3	5	6	9	15
18	12	13	15	13	7	4	1	0	-1	-1	-2	-2	-2	-2	-2	-1	0	1	2	2	3	24	11	16
19	51	364	66	57	55	41	117	15	-8	-16	-14	-14	-9	-9	-9	-6	-5	0	7	14	9	16	62	33
20	28	17	51	25	9	4	2	-1	-7	-32	-67	-95	-89	-69	-70	-108	-102	-1	5	12	20	93	56	73
21	56	23	65	56	33	24	52	++++	2278	-123	-36	-16	-6	-3	-2	-1	0	3	10	28	27	8	4	10
22	4	5	9	25	72	35	104	-1	-4	-10	-14	-10	-14	-7	-6	-3	-1	2	3	8	7	5	6	4
23	4	8	9	81	7	33	9	-2	-11	-42	-44	-42	-36	-33	-18	-1	0	1	3	2	4	2	1	2
24	2	2	2	1	1	2	3	2	1	-1	-1	0	0	-2	-3	-65	-10	3	12	16	14	14	112	106
25	103	59	46	26	35	12	1	-1	-6	-14	-17	-8	-33	-93	-15	-9	1	6	30	23	39	45	56	220
26	29	38	41	36	36	57	154	59	-13	-166	-107	-52	-61	-32	-22	-9	-6	1	8	20	36	14	16	24
27	89	102	24	17	30	26	26	112	-9	-1	-2	-3	-5	-3	-4	-4	-1	0	1	3	18	57	70	40
28	77	59	39	52	47	42	68	32	-34	-187	-276	-54	-203	-17	-29	-13	-1	3	8	33	42	28	44	36
29	61	60	63	93	153	60	38	12	-1	-2	-2	-1	-2	-3	-3	-2	-1	1	4	11	23	64	45	37
30	35	47	77	33	26	17	25	-1	-110	-108	-68	-190	-104	-9	-9	-11	-10	1	7	16	19	73	35	63
31	24	38	31	12	33	73	232	183	-200	-176	-147	-72	-30	-21	-13	-9	-6	1	7	16	52	52	50	78

PERCENT VALID HOURS FOR MAY, 1996 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR MAY, 1996 XXXX(DD,HH) = ++++(12, 9) ++++(12, 8) ++++(21, 7) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — JUNE, 1996

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	53	46	71	224	77	95	146	-142	19	-122	-113	-65	-91	-49	-60	-90	-21	50	64	63	29	54	49	94
2	64	40	126	240	69	307	148	224	132	-162	-36	-22	-73	-72	-51	-110	-54	66	53	52	51	38	33	32
3	43	70	42	101	129	179	80	5944	216	993	-146	-90	-21	-71	-34	-17	-15	2	9	15	38	70	71	31
4	75	48	128	48	43	164	264	224	-2	24	-101	-12	-9	-7	-6	-3	-2	2	7	20	25	44	58	33
5	62	35	62	40	43	73	272	-110	-153	-455	-79	-17	-8	-7	-7	-8	-4	3	12	20	21	36	49	34
6	76	30	18	292	80	43	288	109	110	-63	-108	-75	-42	-41	-40	-38	-17	8	61	18	24	27	52	72
7	72	217	63	57	99	72	112	31	-86	-313	-79	-18	-19	-7	-6	-2	-1	1	3	12	27	393	19	11
8	40	110	65	184	175	196	185	59	-342	-37	-32	-5	-3	-4	-4	-5	-3	2	8	34	39	20	23	45
9	68	26	29	201	361	163	-21	-7	651	-259	-19	-18	-19	-37	-26	-19	-5	4	11	16	7	74	36	40
10	67	38	21	93	28	52	281	184	-15	-66	-29	-14	-13	-9	-7	-7	-3	1	5	18	120	19	161	55
11	32	18	70	105	73	103	40	86	-29	-26	-31	-26	-15	-8	-6	-3	-2	0	3	16	50	28	40	33
12	74	72	103	129	93	391	66	83	748	-122	-53	-21	-11	-9	-4	-2	-1	0	2	10	39	34	40	55
13	73	151	59	65	61	32	235	-8	571	-196	-65	-51	-38	-25	-10	-3	-1	0	2	12	75	95	22	144
14	37	90	149	46	110	60	103	287	7	-367	-66	-109	-19	-13	-11	-5	-2	0	4	15	50	44	26	37
15	52	44	81	136	61	138	143	647	39	14	-43	-7	-8	-5	-3	-3	-1	0	2	8	145	23	33	87
16	41	38	253	74	69	219	34	103	83	-79	-12	-2	-2	-2	-2	-1	-1	1	3	15	36	421	214	137
17	99	82	77	224	74	114	59	3	-3	-1	-2	-3	-4	-4	-3	-2	-1	1	3	9	17	17	41	29
18	21	57	122	36	79	29	46	26	116	-57	-29	-22	-11	-6	-3	-3	-1	1	4	40	84	144	116	51
19	142	348	56	65	59	27	41	1	-21	-57	-72	-20	-4	-2	-3	-2	-2	0	2	5	20	7	3	5
20	4	6	6	24	42	56	6	1	0	-1	-2	-3	-1	-2	-2	-2	-1	0	2	10	11	58	17	7
21	8	18	11	42	25	46	23	-15	-3	-1	-1	-2	-4	-3	-2	-2	-1	0	1	4	8	6	6	13
22	26	53	285	36	103	40	183	500	-196	-345	-144	-62	-48	-28	-39	-12	-4	-1	3	13	21	58	62	52
23	39	61	99	87	248	150	77	11	8088	-54	-55	-14	-14	-10	-5	-3	-1	0	2	6	7	28	29	25
24	74	18	15	55	555	33	46	0	-2	-2	-2	-2	-2	-2	-2	-1	0	0	1	3	4	-3	2	18
25	176	45	46	10	10	8	8	-2	-2	-3	-3	-2	-3	-2	-1	-1	-1	0	2	22	9	9	5	15
26	42	12	13	6	8	17	3	11	12	11	13	12	2	0	-1	0	0	0	2	7	6	7	10	51
27	67	50	49	77	44	15	84	78	1640	-142	-120	-22	-16	-17	-12	-6	-3	-1	4	15	16	35	92	43
28	76	43	25	53	20	61	306	483	-21	-145	-50	-48	-72	-351	-85	-43	-63	-10	40	22	29	47	55	31
29	30	78	194	31	138	181	99	149	-177	31	-55	-71	-119	-63	-63	-44	-18	101	130	297	61	75	165	48
30	71	77	57	40	137	52	76	181	2321	347	855	-49	-44	-111	-17	-10	-4	2	8	20	25	36	117	35

PERCENT VALID HOURS FOR JUNE, 1996 720*100/ 720=100.0%

THREE HIGHEST VALUES FOR JUNE, 1996 XXXX(DD,HH) = 8088(23, 8) 5944(3, 7) 2321(30, 8) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — JULY, 1996

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	59	98	107	153	29	39	128	3013	5	135	-48	-25	-14	-13	-12	-8	-4	1	7	30	53	35	102	58
2	62	169	160	104	20	42	48	-238	191	885	-70	-10	-13	-16	-7	-5	-2	0	3	8	21	50	89	27
3	24	23	28	20	20	28	117	7	-7	-2	-3	-2	-3	-2	-2	-2	-1	0	2	6	9	19	50	17
4	57	32	23	80	41	17	56	398	-71	-35	-9	-4	-4	-4	-3	-4	-2	0	3	16	107	22	66	36
5	22	21	66	41	39	81	-125	31	-2	-39	-56	-29	-19	-10	-8	-4	-2	0	3	10	54	52	25	35
6	42	42	47	69	60	283	270	1162	930	-103	-80	-24	-14	-12	-15	-9	-2	0	5	16	21	49	62	63
7	28	155	81	180	88	77	++++	111	++++	----	-13	-9	-7	-8	-6	-6	-3	0	3	18	265	56	29	24
8	171	36	32	1213	54	43	142	90	80	-79	-14	-8	-6	-4	-3	-3	-1	0	2	8	35	85	52	14
9	3	7	9	13	13	40	34	409	17	-21	-28	-11	-8	-9	-8	-5	-3	-1	3	13	26	112	42	38
10	34	48	69	13	19	29	94	259	24	-850	-90	-58	-7	-38	-14	-6	-2	-1	4	33	28	27	37	23
11	18	28	102	94	31	34	47	64	50	-75	-17	-45	-101	-30	-3	-1	-4	-1	3	5	3	5	5	28
12	30	21	70	49	30	17	12	835	-126	-280	-129	-111	-61	-47	-6	1	-1	1	9	7	40	26	31	29
13	23	32	37	120	68	78	416	51	-796	----	-103	-91	-154	-181	-13	-9	-11	-6	13	4	8	75	34	53
14	38	46	21	48	40	78	1742	1190	-388	-187	-90	-26	-10	-2	-2	-1	-1	2	73	21	14	5	5	12
15	27	48	63	33	40	32	112	301	578	-153	-41	-13	-6	-6	-5	-5	-2	0	2	7	23	29	34	80
16	73	39	24	20	20	33	139	16	-1	-1	-2	-2	-2	-2	-2	-1	-1	0	1	4	7	115	51	22
17	7	10	19	38	41	20	65	-3	-7	-5	-4	-2	-4	-3	-2	-1	-1	0	3	13	48	22	41	112
18	28	18	33	53	48	146	110	69	-11	-24	-2	-2	-3	-3	-3	-2	-1	1	3	8	45	374	92	78
19	48	139	64	68	119	204	375	226	++++	-58	-5	-5	-4	-6	-6	-5	-2	1	6	18	37	46	81	67
20	51	66	42	34	43	47	144	4986	5363	++++	-319	-36	-39	-16	-10	-8	-3	1	6	21	22	52	294	47
21	170	77	114	46	193	113	272	859	296	-48	-116	-36	-17	-14	-13	-8	-2	2	15	20	27	50	45	30
22	49	135	42	43	98	55	287	270	34	776	-127	-66	-53	-16	-12	-9	-4	1	9	17	19	78	114	57
23	101	58	22	50	55	182	228	163	7	2	-104	-156	-29	-12	-9	-8	0	1	12	19	27	21	29	199
24	30	23	67	62	95	105	138	85	++++	5622	-103	-21	-9	-8	-6	-6	-2	1	6	18	21	56	121	41
25	52	18	83	68	48	25	41	55	126	-14	-10	-5	-7	-7	-7	-7	-3	2	9	23	21	29	84	36
26	37	39	33	39	105	27	24	5	-6	-22	-17	-28	-50	-13	-9	-4	-2	1	4	12	65	1	0	1
27	37	15	10	18	58	19	31	125	18	10	-7	-10	-7	-21	-33	-5	-4	0	2	5	8	9	23	100
28	56	33	65	53	35	25	62	23	119	-11	-5	-6	-10	-10	-10	-9	-22	9	20	11	18	6	3	6
29	25	22	70	57	28	58	36	77	272	-203	-176	-154	-72	-124	-9	-3	-2	-1	23	39	37	31	96	22
30	19	26	104	67	67	215	319	8521	-22	-130	-55	-54	-18	-10	-20	-10	-6	2	12	24	42	60	71	123
31	75	237	42	76	40	63	151	3237	++++	-243	-66	-18	-9	-9	-10	-9	-5	7	8	19	70	22	20	44

PERCENT VALID HOURS FOR JULY, 1996 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR JULY, 1996 XXXX(DD,HH) = ++++(7, 6) ++++(19, 8) ++++(24, 8) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — AUG, 1996

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	38	42	26	61	70	64	205	458	-58	-10	-6	-3	-3	-3	-2	-2	-1	1	4	18	19	18	33	29
2	15	15	49	85	23	58	893	126	-1	-1	-1	-2	-2	-2	-2	-1	0	1	2	5	5	9	17	20
3	27	16	45	101	118	46	43	29	-1	-1	0	0	0	0	0	0	0	0	0	0	1	0	0	1
4	2	3	10	10	6	13	2	14	-1	-1	-1	-1	-1	-2	-1	-1	0	0	1	5	13	26	14	20
5	9	33	16	34	16	10	61	1577	1	-1	-2	-3	-2	-2	-2	-1	0	1	2	6	7	8	8	7
6	23	50	123	69	21	58	62	67	14	-114	-77	-40	-69	-73	-68	-84	-8	3	6	16	33	65	38	149
7	31	47	13	28	****	****	****	****	****	****	****	****	****	****	****	****	-9	37	117	308	24	35	116	104
8	414	105	108	164	183	214	495	-32	-21	++++	1037	-103	-86	-38	-24	-22	-22	14	49	18	58	49	45	65
9	37	35	46	38	149	58	79	-18	246	66	-81	-48	-196	-22	-90	-15	6	12	18	16	26	75	46	198
10	81	58	61	24	378	59	287	945	46	-8	-148	-103	-73	-47	-47	-8	-2	6	14	13	9	29	42	69
11	107	79	96	58	64	42	390	4199	276	84	127	-23	-97	-29	-7	-5	-5	10	3	14	31	36	65	55
12	37	44	53	55	74	90	45	26	-22	58	-4	-2	1	0	-2	0	0	2	6	14	51	14	34	67
13	28	34	52	113	59	95	41	772	163	-74	388	-120	-29	-21	-9	-17	-13	-4	3	14	16	55	52	24
14	40	78	153	59	48	34	51	122	84	218	-48	-29	-9	-14	-5	-3	-1	3	10	19	16	53	57	91
15	34	135	70	232	33	18	39	33	24	-229	-216	-18	-27	-16	-16	-8	-2	2	4	12	18	28	16	23
16	18	23	8	52	13	37	68	111	34	-85	-37	-20	-7	-7	-12	0	7	5	18	15	26	26	23	14
17	25	57	36	24	36	31	38	155	18	-79	-24	-20	-11	-5	-4	-3	0	1	4	6	6	8	10	35
18	26	33	43	71	84	39	68	76	96	-10	-7	-3	-3	-2	-2	-2	0	2	9	62	38	42	40	44
19	35	117	218	111	35	37	38	26	34	-11	-7	-2	-2	-2	-1	-1	0	1	5	12	39	29	21	54
20	146	86	66	71	51	42	63	51	107	603	-10	-2	-2	-2	-3	-1	0	2	9	43	34	32	152	312
21	126	134	210	54	180	104	50	323	203	3857	270	-99	-36	-17	-13	-9	-3	5	20	26	87	471	114	36
22	70	362	267	75	133	114	170	250	1952	95	214	-85	-55	-35	-27	-15	1	3	10	21	34	143	83	39
23	43	31	77	36	75	25	97	1357	963	-77	223	-35	-34	-32	-17	-15	-5	4	5	5	14	15	13	21
24	14	103	34	52	18	29	43	74	10	-92	-35	-29	-37	-19	-20	-7	5	4	3	6	23	27	20	111
25	81	33	74	41	85	58	76	++++	726	50	79	-91	-84	-26	-23	-17	-10	5	13	36	14	33	31	47
26	24	48	19	42	44	65	79	32	138	55	-5	-2	-3	-3	-2	-2	0	2	5	26	13	7	10	26
27	80	41	50	119	36	57	46	150	0	-1	-1	-2	-3	-3	-2	-1	0	3	18	370	53	219	43	34
28	110	68	67	57	67	43	151	207	2598	3089	1031	145	-4	-40	-23	-18	-1	14	17	16	79	42	195	31
29	78	171	119	81	47	100	38	577	++++	19	194	162	-16	-44	-24	-12	0	7	15	19	49	71	49	46
30	177	59	142	113	47	24	107	258	72	6	375	-80	-85	-44	-11	-5	0	8	16	22	52	61	54	40
31	59	76	25	63	30	58	79	++++	++++	53	-36	-15	-7	-6	-6	-3	0	5	19	14	89	24	43	62

PERCENT VALID HOURS FOR AUG, 1996 732*100/ 744= 98.4%

THREE HIGHEST VALUES FOR AUG, 1996 XXXX(DD,HH) = ++++(31, 7) ++++(25, 7) ++++(31, 8) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — SEPT, 1996

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	151	73	25	39	16	24	89	1415	72	-18	-35	-39	-27	-26	-11	-3	1	4	17	90	52	28	29	44
2	23	61	162	45	66	49	155	196	231	-61	-20	-15	-18	-11	-7	-4	0	5	25	57	51	107	24	57
3	25	49	67	58	140	98	371	190	30	7	-2	-2	-3	-3	-2	-1	1	2	7	16	15	17	29	28
4	39	38	328	117	15	8	65	9	0	-1	-1	-1	-1	-1	-1	-1	0	1	2	2	2	4	3	2
5	5	19	17	24	15	41	44	7	-1	-4	-4	-7	-5	-3	-2	-2	0	2	4	11	37	120	163	115
6	45	74	19	27	56	62	44	199	2738	40	-50	-61	-52	-67	-18	-7	-2	3	16	58	28	35	36	27
7	30	54	44	45	29	44	113	133	173	229	-109	-36	-11	-11	-8	-4	-1	3	13	62	51	150	25	40
8	37	49	50	97	70	102	64	100	203	134	-6	-39	-65	-15	-5	-13	-3	4	22	40	52	24	24	35
9	44	56	46	52	29	72	71	113	2950	751	171	-55	-40	-24	-16	-10	-3	12	31	41	29	16	42	51
10	15	52	21	48	24	37	69	121	79	10	-37	-58	-52	-32	-14	-11	-2	5	19	30	29	59	10	20
11	13	20	18	32	42	77	56	51	7	27	-23	-61	-55	-24	-14	-10	-2	4	17	28	39	23	111	28
12	148	36	59	240	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	48	17	8	2	2	2	1	0	0	0	0	1	0	1	2	7	32	48	48	40	36
14	94	70	101	190	64	51	40	367	251	0	-38	-34	-46	-43	-42	-26	-1	2	10	16	62	43	30	40
15	54	100	55	112	47	36	71	155	1086	58	-8	-11	-3	-1	-1	-1	0	1	2	3	6	8	13	3
16	3	5	6	13	131	74	14	8	-1	-11	-28	-28	-10	-10	-5	-3	0	5	9	13	5	75	11	13
17	8	9	20	13	30	32	17	20	-22	-142	-49	-43	-330	-81	-35	-14	-1	5	22	35	30	31	84	86
18	32	22	51	23	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	54	57	64	167	150	7960	6454	149	-73	-28	-12	-5	-2	1	7	22	82	49	62	38	49
20	110	62	106	111	70	83	79	347	132	296	39	19	-137	-30	-8	-3	1	8	20	26	71	108	47	41
21	324	76	153	72	37	43	280	210	82	224	64	-19	-8	-6	-3	-1	1	3	7	16	42	31	70	98
22	37	47	65	35	45	58	32	381	943	120	-43	-42	-14	-7	-3	-1	1	5	52	92	37	54	22	60
23	46	103	101	35	89	35	61	48	142	++++	4301	-42	-9	-5	-2	-1	1	3	12	13	63	66	43	33
24	43	40	67	33	222	289	154	-816	125	++++	33	-77	-13	-5	-2	-1	1	6	11	15	59	33	70	26
25	118	436	105	148	54	61	58	254	169	38	-20	-10	-7	-4	-1	1	1	3	14	25	36	84	126	153
26	59	140	56	79	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
27	****	****	****	50	23	19	7	3	-1	-2	-6	-8	-10	-57	-6	-76	22	60	94	42	45	52	44	98
28	40	129	68	57	69	110	60	382	1492	----	4051	-13	-4	-6	-4	-5	12	40	40	75	104	72	47	34
29	102	225	54	103	110	61	40	++++	1528	1308	++++	-80	-51	-26	-41	8	32	32	23	36	23	75	69	39
30	89	70	95	81	105	132	94	964	454	1520	++++	1201	-13	-21	-10	-1	2	8	20	29	38	73	170	78

PERCENT VALID HOURS FOR SEPT, 1996 651*100/ 720= 90.4%

THREE HIGHEST VALUES FOR SEPT, 1996 XXXX(DD,HH) = ++++(24, 9) ++++(23, 9) ++++(29,10) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — OCT, 1996

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	130	45	79	163	28	93	68	6	64	173	179	-49	-20	-3	-1	1	6	29	59	135	212	105	58
2	49	51	62	78	53	67	35	35	30	65	-27	-10	-12	-13	-42	-2	39	46	85	21	23	19	110	74
3	34	33	52	66	128	196	38	782	634	41	-207	-216	-85	-11	-2	2	5	30	418	21	71	14	84	45
4	49	38	82	47	70	66	82	97	328	804	++++	-10	-28	-19	-4	6	17	90	198	30	15	36	149	184
5	126	46	65	113	188	234	51	138	229	++++	89	3197	-5	-46	-4	-2	48	36	45	17	18	26	50	55
6	37	84	469	101	132	73	146	1196	-23	++++	7115	238	488	15	-29	-20	99	66	48	29	33	48	18	27
7	76	34	38	23	****	****	****	****	4241	825	++++	9298	10	-28	-1	13	51	64	40	49	26	61	95	122
8	172	96	81	62	108	57	101	88	774	2652	326	30	-29	-54	58	165	155	174	46	42	54	70	101	116
9	284	66	96	115	89	51	89	250	78	259	3592	358	396	-10	-3	2	9	22	26	119	145	40	38	72
10	170	127	49	66	48	52	162	497	193	320	164	84	-4	-2	-1	1	3	10	39	68	46	26	86	41
11	328	94	166	298	152	148	260	1110	++++	4725	++++	415	-16	-7	-2	1	2	10	186	63	31	53	41	91
12	72	62	70	248	91	59	62	44	249	261	275	424	44	-2	0	1	3	13	26	37	62	96	98	134
13	64	72	81	50	119	57	81	97	253	204	285	2	0	-1	-1	1	4	21	21	80	90	44	120	54
14	89	202	87	73	54	52	66	37	10	108	6383	-43	67	-25	-80	49	101	54	53	56	45	131	64	36
15	119	39	181	185	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	15	8	27	111	223	5	10	-1	-42	-23	66	237	747	209	78	76	24	38	76	103	54
18	86	164	114	68	60	83	64	646	637	3863	5877	129	9	-1	0	1	3	8	18	54	23	102	51	47
19	21	17	7	4	5	6	6	6	2	-2	-8	-13	-16	-5	-2	0	2	3	3	10	25	4	5	8
20	3	16	15	13	25	14	16	8	1	-4	-7	-18	-28	-11	-5	0	2	3	5	7	14	12	9	8
21	8	10	6	4	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
22	****	****	****	34	45	83	43	40	92	125	165	611	144	-9	-40	14	275	45	27	142	30	41	40	55
23	82	106	21	67	121	44	34	128	48	269	93	-76	-17	-7	-6	11	36	40	49	37	59	51	42	104
24	40	43	39	57	30	32	45	62	87	49	-35	70	-2	1	0	1	2	5	61	35	28	74	19	5
25	14	24	2	3	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	35	46	28	8	3	1	0	-1	-1	-1	-1	0	1	2	2	4	4	5	18	26	38
27	15	22	35	36	18	14	18	19	3	0	-1	2	2	1	2	1	3	2	3	12	3	7	35	44
28	32	108	53	27	29	77	57	71	76	23	15	34	22	45	375	104	8	7	17	54	70	76	23	19
29	63	32	61	71	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	26	121	123	92	42	42	59	13	13	3	3	6	3	7	16	15	12	146	48	89	56
31	64	22	11	29	12	17	70	33	49	44	-1	-1	37	226	33	81	133	80	39	26	37	69	51	30

PERCENT VALID HOURS FOR OCT, 1996 624*100/ 744= 83.9%

THREE HIGHEST VALUES FOR OCT, 1996 XXXX(DD,HH) = ++++(7,10) ++++(11,10) ++++(11, 8) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — NOV, 1996

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	38	22	69	32	17	72	22	20	480	74	4	7	3	3	4	13	12	15	8	7	7	13	8	15
2	24	44	38	27	34	37	25	45	53	15	24	22	33	19	6	5	8	14	14	28	19	19	11	35
3	33	72	41	17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
4	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
5	****	****	****	92	71	30	28	29	117	57	39	1	2	3	2	2	4	15	7	8	21	27	30	13
6	13	17	11	14	12	23	30	6	7	2	0	4	20	31	90	14	10	15	84	52	38	26	95	22
7	51	105	41	47	157	96	42	80	81	1684	378	775	++++	301	30	140	73	138	28	44	28	79	54	61
8	71	44	125	96	40	98	64	162	542	381	205	342	53	27	241	115	211	54	30	65	28	145	105	156
9	73	60	42	43	27	63	39	60	63	425	501	2771	55	652	330	56	143	57	19	37	52	33	101	110
10	322	98	42	56	94	107	42	65	454	724	180	293	1621	18	62	3600	106	110	194	46	291	95	27	62
11	54	51	82	41	58	51	58	123	194	128	2758	7864	++++	1870	++++	189	102	27	50	92	40	115	71	123
12	67	121	81	121	88	46	108	41	355	332	4705	4669	2685	800	++++	228	80	41	39	109	49	52	56	26
13	83	50	300	35	53	27	48	21	170	124	159	335	220	53	76	322	426	40	88	59	80	25	51	38
14	52	58	30	33	21	42	32	33	55	117	33	31	28	77	6	15	16	17	28	61	102	74	21	32
15	25	104	58	214	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	48	38	28	38	18	53	27
18	119	67	41	74	92	33	60	35	113	1511	287	-13	13	13	8	11	42	80	18	26	35	39	68	27
19	134	73	43	77	46	58	61	54	192	192	410	200	151	770	70	56	15	9	14	12	22	76	34	40
20	84	34	40	45	124	24	86	80	120	201	319	316	76	99	116	12	25	58	25	40	92	19	34	51
21	38	37	42	33	56	60	29	35	53	42	35	42	19	34	475	106	44	59	33	35	46	28	51	59
22	13	21	4	3	2	2	2	4	3	2	1	1	1	2	2	3	6	15	19	47	29	28	21	27
23	23	17	18	35	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
24	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
25	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	20	11	16	21	13	15	25	3	1	1	1	2	3	5	9	8	7	9	7	5	6
27	14	14	20	13	25	24	27	11	7	11	108	66	5	13	3	3	10	26	39	44	19	21	55	73
28	44	55	44	39	27	40	39	28	83	114	66	92	64	366	98	333	48	25	40	21	28	17	36	29
29	20	16	14	14	32	87	25	11	15	7	1	1	0	2	1	1	7	29	14	6	6	10	9	24
30	58	29	158	35	43	42	79	39	44	79	33	-5	-17	42	56	67	122	39	42	34	35	21	33	25

PERCENT VALID HOURS FOR NOV, 1996 541*100/ 720= 75.1%

THREE HIGHEST VALUES FOR NOV, 1996 XXXX(DD,HH) = ++++(11,12) ++++(7,12) ++++(11,14) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 1, 0.25-2.0 M LEVELS — DEC, 1996

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	34	38	32	51	42	46	42	83	319	387	209	136	22	27	9	12	21	26	36	129	51	13	15	75
2	47	86	41	45	25	36	58	50	139	121	57	++++	1857	176	++++	100	474	48	40	35	20	74	40	19
3	77	142	80	45	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
4	****	****	****	57	39	61	81	72	93	152	606	207	353	79	571	244	85	62	42	45	94	16	41	29
5	42	66	51	57	71	43	75	46	61	23	54	55	66	156	76	103	61	37	20	42	37	37	48	51
6	63	92	61	50	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
7	****	****	****	67	36	78	34	43	80	127	338	461	425	39	27	13	21	37	16	31	79	47	62	62
8	50	35	51	56	36	73	50	34	29	104	278	867	304	720	185	168	49	28	15	104	82	80	27	44
9	80	53	77	44	52	39	39	57	24	16	23	76	41	10	8	8	19	14	29	36	20	23	16	6
10	3	4	11	6	4	5	4	7	10	2	2	2	2	3	2	3	3	4	3	3	5	5	9	9
11	7	10	8	7	9	12	15	18	46	49	73	32	72	19	36	51	75	179	48	55	53	23	73	31
12	22	57	29	67	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
15	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
18	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	106	49	31	27	34	70	50	51	50	83	61	46	168	92	105	43	58	33	62	42	33
21	36	26	66	36	68	45	44	54	60	77	33	10	4	3	2	3	2	2	3	4	3	1	1	1
22	2	2	1	1	1	1	1	1	1	1	1	1	0	0	1	1	3	2	2	6	4	7	32	30
23	53	27	26	28	17	30	30	60	54	126	297	++++	145	68	54	75	36	16	32	105	49	46	20	35
24	31	56	75	34	133	60	29	60	222	213	823	205	155	399	160	49	27	177	78	39	92	73	53	66
25	139	74	99	28	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	29	14	22	60	34	24	43	49	44	94	97	302	50	58	71	19	89	62	42	74	62
27	44	96	38	43	95	104	28	18	18	35	38	23	24	38	13	6	8	15	45	52	43	36	67	84
28	58	61	29	65	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
29	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	29	21	30	23	32	21	39	61	26	77	46	38	50	30	53	77	27	37	20	68	100
31	57	60	38	42	64	73	70	25	34	70	144	456	193	685	991	96	69	84	20	28	13	19	34	18

PERCENT VALID HOURS FOR DEC, 1996 437*100/ 744= 58.7%

THREE HIGHEST VALUES FOR DEC, 1996 XXXX(DD,HH) = ++++(2,14) ++++(23,11) ++++(2,11) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS JAN, 1996

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	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
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	116	161	69	55	169	41	9	21	28	26	194	214	50	35	18	1434	34	40	13	17	16	19	17	54

PERCENT VALID HOURS FOR JAN, 1996 24*100/ 744= 3.2%

THREE HIGHEST VALUES FOR JAN, 1996 XXXX(DD,HH) = 1434(31,15) 214(31,11) 194(31,10) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — FEB, 1996

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	47	32	48	73	87	45	81	60	210	++++	6921	454	-344	-30	-14	-2	6	7	17	30	22	36	21	55
2	1421	3167	348	325	57	168	371	47	86	68	4	27	-9	-49	-7	0	5	19	9	53	136	48	177	56
3	41	32	127	81	235	131	103	96	324	452	8785	234	++++	84	475	180	617	55	78	21	55	132	30	48
4	399	166	47	181	126	38	63	58	424	510	759	822	-123	-30	10	15	66	78	116	36	44	41	40	24
5	38	68	35	100	28	28	108	24	26	8	-181	-101	-72	-8	21	17	2141	47	48	223	69	89	112	49
6	48	91	50	74	132	139	38	98	110	722	9226	-11	-199	-41	-4	-6	22	36	97	92	75	62	191	286
7	91	67	37	170	70	123	289	209	++++	302	-7	-292	-60	-234	36	29	59	174	55	667	87	141	322	259
8	52	219	603	145	41	93	50	579	5099	408	++++	-23	351	62	119	7	20	33	28	233	116	58	126	222
9	197	153	96	119	285	62	157	100	71	4484	++++	1026	1269	----	-21	72	36	61	40	54	68	141	506	235
10	4607	960	1307	782	++++	259	1203	1044	6113	3514	7	4251	379	-184	-7	2	21	26	35	18	33	++++	1326	51
11	156	1067	1003	711	266	179	239	403	313	187	-964	----	20	-168	-5	-1	2	11	45	87	341	256	32	247
12	2269	1420	37	28	32	46	28	31	44	49	18	-37	-4	-4	-3	0	3	15	32	62	66	36	140	133
13	++++	1159	87	124	72	85	243	3076	696	61	917	-479	-65	-60	-317	12	25	58	20	671	65	59	66	481
14	251	132	38	196	131	387	756	288	2143	166	6703	203	-165	-400	-134	-4	15	23	27	192	109	49	103	128
15	184	144	263	118	56	80	151	233	----	799	4037	8719	221	-99	-64	-2	8	20	41	127	59	1469	4044	47
16	185	53	68	77	165	44	257	125	596	36	47	-68	-42	-23	-12	-5	10	20	28	80	98	140	1193	94
17	40	135	147	60	91	43	226	259	686	443	367	43	-6	-9	-3	0	9	32	27	36	73	73	40	94
18	80	30	78	77	607	69	55	118	201	292	194	2443	-160	-430	-12	-4	2	11	93	66	39	113	180	128
19	83	135	249	144	208	629	204	94	24	42	2	0	-1	0	0	1	1	1	1	2	1	1	2	1
20	1	1	1	1	2	1	1	1	1	0	1	1	1	1	0	3	3	5	7	8	10	5	22	164
21	7	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
22	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
23	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
24	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
25	****	****	****	****	****	****	****	****	****	0	-1	-1	-2	-3	-2	3	30	6	4	11	9	17	17	22
26	10	13	13	23	12	112	126	74	47	27	-2	-7	-4	-5	-5	-2	0	3	6	36	54	95	35	52
27	319	214	196	139	413	475	544	66	489	1228	5013	-440	-34	-44	-29	-4	2	4	9	29	20	366	77	167
28	****	****	****	****	****	****	****	****	800	26	222	-27	33	-673	-20	125	20	89	203	135	75	42	112	46
29	25	57	318	75	63	60	99	552	9961	1636	132	398	405	-80	-587	-162	1	85	54	53	534	407	36	79

PERCENT VALID HOURS FOR FEB, 1996 584*100/ 696= 83.9%

THREE HIGHEST VALUES FOR FEB, 1996 XXXX(DD,HH) = ++++(1, 9) ++++(13, 0) ++++(7, 8) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — MAR, 1996

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	280	128	45	72	125	108	196	213	111	-86	123	-260	-148	-20	-7	-2	3	9	23	18	79	45	45	102
2	1395	188	30	85	346	286	888	360	78	322	++++	-90	-97	-59	-251	-168	10	20	20	63	57	661	279	68
3	90	154	327	100	150	148	109	226	704	4	26	77	10	1	2	32	117	4590	45	31	37	45	35	299
4	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
5	****	****	****	****	****	****	****	****	****	-1	-2	-3	-3	-2	-2	-1	0	2	3	2	2	3	2	4
6	21	23	13	190	266	72	233	54	28	-3	-10	-32	-54	-21	-56	-31	0	17	24	114	28	52	176	65
7	409	180	495	95	96	30	122	126	32	156	2850	-83	-169	-110	-271	-123	-6	126	80	63	82	368	85	46
8	576	203	111	551	160	211	487	220	++++	37	-3	-29	-272	-16	-8	-8	1	10	49	59	65	88	267	116
9	108	151	57	101	61	89	323	50	95	588	17	-53	-18	-29	-36	45	25	56	124	18	45	156	162	583
10	++++	151	167	304	186	81	88	43	14	-1	-123	-10	-5	-5	-4	-2	1	10	20	48	91	109	231	242
11	425	130	187	139	59	40	65	115	85	++++	-52	-12	-9	-9	-8	-5	-1	7	6	16	134	601	189	905
12	259	324	1014	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	89	326	1546	182	2913	414	54	-60	-78	-72	-140	-144	-45	-6	47	50	45	16	24	614	2959
15	1092	24	3703	84	510	338	55	749	97	82	-61	-86	-81	-32	-57	-26	-10	50	26	19	26	40	45	102
16	313	2175	++++	772	156	96	66	47	-97	-20	-3	-2	-7	-8	-12	-9	1	12	14	11	44	70	50	54
17	18	14	24	27	109	38	60	18	13	5	-29	-60	-40	-41	-21	-37	-5	9	20	22	305	38	16	12
18	13	20	74	87	61	56	297	205	296	668	-104	-71	-256	-137	-398	-88	-11	77	127	35	27	104	176	37
19	371	2404	1565	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
21	****	****	****	264	130	1101	2230	766	1717	-247	++++	-591	-70	-15	-10	-6	-1	5	22	18	89	97	668	109
22	163	1229	381	329	191	169	116	465	389	11	-5	-5	-5	-5	-4	-2	0	1	2	3	11	5	5	5
23	6	7	7	20	24	18	20	3	-9	-21	-17	-8	-4	-5	-7	-7	-2	1	5	9	14	26	17	67
24	38	42	213	152	1120	103	108	++++	417	----	-157	-176	-21	-17	-6	-3	-2	3	5	12	12	70	70	85
25	481	36	215	158	345	64	108	149	-205	-51	-144	-330	-203	-51	-29	-17	-19	1	0	0	1	2	3	4
26	6	4	4	5	6	4	6	1	-6	-14	-33	-114	-291	-265	-163	-82	-32	10	12	18	52	240	96	5749
27	84	239	373	134	67	4412	376	-211	-16	-44	-65	----	-53	-31	-10	-7	-1	2	18	80	198	277	88	38
28	88	116	142	82	177	109	98	5	-3	-2	-3	-3	-3	-3	-2	-1	0	0	1	1	0	2	3	6
29	11	191	558	360	52	46	9	13	-28	-11	-19	-178	-191	-144	-261	-99	-7	2	15	50	39	124	40	38
30	33	126	1081	575	827	478	86	5616	2046	-38	-490	-294	-88	-35	-20	-13	-3	2	14	177	114	101	175	47
31	74	445	619	219	982	884	133	----	-821	-32	355	-207	-139	-84	-15	-6	-1	2	7	14	84	62	225	349

PERCENT VALID HOURS FOR MAR, 1996 615*100/ 744= 82.7%

THREE HIGHEST VALUES FOR MAR, 1996 XXXX(DD,HH) = ++++(16, 2) ++++(8, 8) ++++(24, 7) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — APR, 1996

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	421	92	227	167	321	142	1094	1218	4	-20	-6	-4	-3	-4	-3	-2	0	1	1	1	5	3	3	3
2	4	6	5	8	13	34	68	-341	-59	-308	-53	-24	-35	-43	-46	-79	-10	1	11	17	31	215	124	92
3	62	72	126	140	283	720	665	-6	-174	----	----	----	-264	-73	-32	-20	-11	2	10	12	57	1052	325	59
4	81	24	13	30	26	9	14	0	-4	-9	-11	-13	-6	-6	-5	-7	-3	2	11	16	6	7	5	8
5	8	6	4	8	10	8	5	0	-2	-3	-5	-7	-12	-24	-29	-20	-5	4	20	85	143	474	68	28
6	411	787	147	145	177	185	578	202	275	----	----	-187	-106	-252	-426	-74	-26	9	52	70	38	766	898	61
7	196	473	6081	267	171	180	78	-138	641	----	-809	-612	-385	-323	-283	-79	-9	3	15	31	96	135	++++	69
8	1192	245	++++	349	414	8861	232	3410	90	-48	-469	-55	-18	-14	-9	-6	-2	2	11	110	136	231	73	94
9	40	513	181	439	165	29	230	141	63	-181	-17	-5	-5	-4	-2	-3	-2	2	5	8	26	34	26	30
10	32	111	70	67	49	589	139	++++	211	-171	-83	-38	-17	-11	-6	-4	-2	1	8	12	10	15	13	167
11	75	63	20	56	151	30	11	-4	-17	-17	-34	-61	-103	-76	-132	-38	-7	1	9	26	37	34	240	183
12	207	208	6081	184	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	37	43	53	159	30	-88	-25	-25	-156	-162	-77	-104	-91	-31	2	11	17	197	130	9	29
14	10	11	22	99	80	63	31	2	----	-18	-12	-17	-35	-95	-149	-94	-52	-8	47	287	34	67	41	2015
15	175	163	1807	310	278	1203	2638	----	-615	-988	----	-208	-174	-47	-34	-6	-2	1	8	41	37	27	35	7
16	6	4	9	14	12	9	2	1	0	0	0	-1	-3	-5	-4	-2	-1	0	2	2	2	2	2	3
17	5	5	6	8	7	5	2	-1	-6	-8	-8	-10	-8	-8	-7	-4	-1	0	2	2	2	1	2	1
18	1	1	1	1	2	1	0	-1	-3	-4	-3	-10	-13	-15	-15	-14	-8	0	6	9	10	10	15	18
19	33	65	100	120	88	109	37	1	----	-773	-250	-948	-160	-266	-52	-9	-3	2	14	21	17	80	47	18
20	65	77	47	86	85	504	12	0	-12	-23	-26	-45	-146	-126	-114	-96	-20	9	4762	39	8	34	65	86
21	128	60	391	39	84	94	74	-20	-910	-334	-721	-180	-93	-32	-26	-35	-21	7	30	17	376	2409	60	130
22	73	101	126	70	172	++++	113	5	2103	----	-232	-91	-73	-45	-74	-44	-24	2	15	35	43	52	154	44
23	93	754	89	367	385	3646	76	-147	-542	----	----	-254	-72	-34	-16	-21	-6	9	44	60	++++	80	192	111
24	87	96	84	62	139	24	49	-35	-39	-762	-21	-12	-8	-8	-5	-3	-1	1	6	9	4	8	34	51
25	78	68	25	26	19	28	5	-5	-20	-20	-17	-23	-39	-35	-30	-9	-7	1	12	32	363	45	72	43
26	30	115	95	29	898	325	104	56	-520	----	-143	----	-198	-20	-5	-5	-3	1	10	83	977	37	166	68
27	15	46	40	240	216	75	30	-28	-85	-28	-72	-106	-80	-34	-13	-6	-4	1	5	13	8	3	17	6
28	4	3	3	6	7	4	1	-1	-2	-4	-4	-6	-8	-9	-7	-5	-3	0	2	7	9	7	5	8
29	17	451	76	51	108	151	17	4	-59	-53	-646	-397	-490	-349	-223	-575	-277	-42	18	16	35	125	66	93
30	893	139	76	142	681	60	1978	1416	----	----	-356	-253	-43	-186	-66	-13	-5	1	7	15	10	9	10	21

PERCENT VALID HOURS FOR APR, 1996 697*100/ 720= 96.8%

THREE HIGHEST VALUES FOR APR, 1996 XXXX(DD,HH) = ++++(8, 2) ++++(7,22) ++++(23,20) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — MAY, 1996

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	43	88	100	147	87	1039	++++	56	----	-304	-108	-49	-43	-41	-25	-26	-9	1	17	28	18	113	1546	++++
2	90	40	144	38	79	78	-170	++++	++++	-297	-511	-23	-16	-13	-9	-7	-3	1	10	22	20	49	93	147
3	500	261	50	113	204	9361	6706	1859	-274	----	-313	-44	-19	-22	-11	-9	-5	1	10	41	40	28	40	44
4	146	61	37	50	331	++++	++++	889	-549	-170	-386	-306	-197	-34	-21	-12	-4	2	9	14	89	48	103	291
5	477	547	477	102	42	35	39	-916	-772	-377	-193	-57	-24	-16	-12	-11	-6	0	14	28	269	53	243	118
6	109	137	299	162	2359	131	7772	-752	----	----	----	-440	-22	-15	-9	-6	-3	-1	7	45	184	63	43	21
7	53	294	4346	1783	624	87	351	285	-10	-16	-21	-25	-28	-22	-16	-10	-6	1	8	58	76	24	35	37
8	138	124	35	25	358	347	137	82	-112	-84	-51	-47	-30	-18	-15	-9	-5	1	4	9	10	23	7	8
9	3	7	73	12	8	13	1	-37	-239	-413	-123	-45	-113	-312	-29	-72	-222	-3	3	12	40	1975	77	1440
10	133	68	++++	638	205	++++	16	30	-8	-198	-280	-125	-145	-187	-109	-61	-28	-2	12	17	74	296	256	4789
11	224	64	2751	96	446	1091	192	28	----	----	----	-316	-167	-219	-205	-30	-13	4	17	28	56	77	9101	3165
12	66	133	116	48	58	119	201	1673	-29	----	----	-269	-66	-47	-46	-19	-5	0	5	19	16	16	36	183
13	149	205	1586	279	272	137	25	385	-51	-518	-21	-14	-15	-12	-9	-7	-4	2	7	18	79	36	9	16
14	15	218	24	35	47	131	108	-37	-12	-26	-37	-27	-31	-17	-13	-7	-4	0	1	3	2	4	7	10
15	109	13	24	154	31	89	30	-17	-12	-8	-11	-8	-5	-3	-3	-3	-1	0	0	1	1	1	1	1
16	1	1	1	2	2	2	0	-1	-2	-2	-2	-3	-4	-2	-2	-3	-1	0	1	2	4	15	3	4
17	19	29	39	62	685	2571	61	-44	-22	-31	-61	-294	-17	-7	-5	-4	-2	0	3	4	7	8	10	15
18	13	15	17	15	8	4	1	-2	-2	-3	-4	-4	-4	-4	-5	-3	-1	0	2	3	3	25	13	18
19	71	9835	130	67	47	155	376	-59	-19	-35	-29	-26	-19	-18	-18	-12	-11	-3	6	13	10	16	84	50
20	21	24	34	18	5	6	1	-6	-20	-71	-157	-491	-236	-153	-167	-170	-472	-8	3	12	21	1569	92	++++
21	237	29	157	149	61	257	2158	1124	1893	-506	-107	-36	-13	-6	-5	-4	-4	-1	10	45	33	9	4	13
22	4	5	9	25	110	45	190	-6	-11	-23	-31	-23	-29	-17	-13	-9	-4	0	4	8	6	6	6	5
23	5	10	11	296	8	20	4	-8	-26	-80	-106	-82	-49	-40	-38	-5	-1	0	1	1	3	2	1	2
24	2	3	2	1	1	1	1	1	0	-4	-2	0	-1	-5	-8	-109	-21	-2	5	11	13	12	1712	108
25	156	150	53	36	28	12	0	-4	-14	-32	-42	-17	-111	-171	-34	-21	-4	5	42	67	36	29	45	279
26	18	29	48	28	55	50	5437	18	-550	----	-295	-90	-154	-83	-44	-21	-17	-3	4	13	37	16	15	22
27	++++	976	32	18	37	32	23	-141	-24	-2	-4	-7	-11	-7	-9	-10	-3	-1	0	1	18	75	98	81
28	218	130	85	119	103	123	54	13	-63	----	----	-127	-481	-26	-69	-34	-7	-1	6	40	44	45	88	52
29	94	104	++++	795	1412	162	32	-24	-5	-5	-4	-4	-5	-8	-8	-7	-4	-1	5	12	26	85	64	152
30	26	170	146	57	51	24	22	-83	-439	-295	-177	----	-264	-22	-21	-24	-28	-8	7	16	23	215	32	286
31	32	52	42	18	55	379	811	-83	-790	----	----	-219	-59	-48	-29	-23	-16	-5	6	18	65	97	163	742

PERCENT VALID HOURS FOR MAY, 1996 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR MAY, 1996 XXXX(DD,HH) = ++++(1, 6) ++++(10, 5) ++++(20,23) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — JUNE, 1996

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	127	188	98	262	4054	994	++++	-514	----	-198	-229	-182	-159	-137	-120	-328	-62	-49	42	112	71	99	58	364
2	124	98	743	++++	106	++++	885	-98	----	----	-77	-43	-200	-153	-123	-489	-637	-141	72	70	48	83	92	76
3	111	133	99	432	359	665	694	-468	----	----	----	-542	-50	-156	-95	-61	-69	-7	7	17	53	89	206	131
4	684	191	366	496	141	405	64	-239	-562	-184	-944	-30	-20	-16	-16	-10	-10	-1	7	23	32	93	124	47
5	248	46	135	154	103	99	++++	-224	-376	----	-205	-42	-20	-16	-16	-20	-17	-4	12	23	24	69	93	104
6	183	46	28	++++	415	159	127	-462	----	----	-443	-330	-111	-90	-101	-130	-86	-23	33	15	29	41	61	167
7	147	396	141	272	946	++++	352	-52	-416	----	-283	-28	-49	-17	-16	-7	-4	-2	2	13	23	945	16	12
8	60	++++	147	++++	5571	465	7725	-24	-529	----	-78	-13	-6	-10	-12	-13	-11	-4	6	31	44	21	24	100
9	135	42	72	1841	5577	85	-224	-261	----	-606	-50	-38	-46	-82	-58	-56	-20	0	8	16	7	59	57	58
10	296	50	24	567	42	82	++++	-204	-114	-369	-91	-34	-29	-23	-17	-18	-8	-4	4	17	162	18	763	107
11	50	15	82	952	193	278	18	-24	-105	-76	-62	-55	-32	-17	-12	-8	-7	-2	2	17	48	19	46	29
12	141	157	924	555	201	359	145	28	-232	----	-129	-50	-24	-20	-8	-4	-3	-1	2	10	29	80	36	113
13	337	808	168	294	1451	751	344	-407	-841	----	-272	-134	-71	-60	-22	-7	-4	-1	2	12	61	193	20	551
14	94	3309	1716	106	1615	143	3921	-194	-167	----	-186	-507	-43	-30	-28	-11	-6	-2	3	15	78	60	28	36
15	78	67	1711	324	186	2297	0	-81	-33	----	-126	-18	-18	-11	-8	-6	-4	-1	2	8	201	38	44	111
16	49	69	8499	152	306	++++	-68	-602	-193	-122	-30	-5	-6	-6	-4	-4	-4	-2	3	17	56	1350	951	312
17	136	149	207	620	184	1063	18	-16	-11	-4	-5	-7	-9	-10	-9	-7	-4	-2	3	10	18	16	43	26
18	20	131	446	55	382	37	29	-75	----	-175	-67	-49	-24	-15	-7	-8	-4	-2	4	49	138	110	110	76
19	595	3710	176	75	110	38	92	-83	-223	-196	-170	-48	-9	-6	-7	-7	-7	-1	1	6	20	8	3	6
20	5	7	8	35	69	72	7	-1	-1	-5	-6	-7	-4	-6	-5	-6	-4	-1	2	12	15	49	22	8
21	10	20	15	50	30	65	16	-32	-9	-2	-3	-5	-9	-7	-6	-6	-3	-1	1	4	8	6	7	14
22	31	71	3584	61	322	69	128	136	----	----	-890	-170	-145	-67	-89	-28	-11	-4	1	12	23	252	88	89
23	334	100	436	++++	1262	533	-17	-61	----	-273	-171	-31	-31	-20	-11	-6	-3	-1	2	6	9	44	26	24
24	103	20	18	109	3714	81	96	-3	-6	-5	-4	-5	-6	-6	-5	-3	-2	-1	1	4	5	4	2	21
25	241	55	87	13	12	9	1	-19	-6	-7	-7	-5	-7	-5	-3	-2	-2	-2	1	23	11	11	6	15
26	47	14	16	6	8	14	4	4	2	3	6	9	1	-1	-3	-1	-1	-1	2	8	7	7	11	53
27	71	91	124	251	110	817	++++	++++	852	----	-268	-47	-33	-35	-25	-13	-9	-4	2	16	16	43	148	45
28	5798	89	42	233	28	138	994	17	-414	-494	-182	-100	-165	-915	-213	-120	-257	-74	43	30	27	57	110	67
29	39	151	5218	132	2641	5489	558	3526	----	----	-547	-386	-371	-184	-159	-82	-121	-123	274	1947	75	191	318	74
30	1180	276	92	237	3635	220	592	-94	----	----	----	-147	-157	-500	-39	-28	-14	-4	8	23	35	164	++++	148

PERCENT VALID HOURS FOR JUNE, 1996 720*100/ 720=100.0%

THREE HIGHEST VALUES FOR JUNE, 1996 XXXX(DD,HH) = ++++(23, 3) ++++(7, 5) ++++(30,22) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — JULY, 1996

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	140	251	++++	2116	83	65	269	-300	-482	----	-488	-94	-34	-31	-30	-20	-15	-4	5	24	80	71	163	903
2	571	++++	7228	468	31	66	-53	----	-418	----	-370	-29	-33	-41	-18	-14	-8	-4	1	6	22	52	310	22
3	16	16	15	17	11	16	117	-23	-27	-7	-9	-7	-8	-5	-7	-6	-5	-2	1	5	8	7	31	25
4	40	22	17	79	44	22	29	-723	-903	-98	-22	-9	-10	-9	-9	-10	-5	-3	1	15	216	22	49	40
5	23	25	94	74	74	102	-341	-23	-46	-148	-136	-86	-41	-22	-19	-12	-6	-3	1	12	28	69	17	32
6	45	69	138	126	169	3372	849	5378	----	----	-177	-58	-33	-28	-40	-23	-8	-5	3	16	25	55	255	141
7	41	5773	425	1096	240	314	59	-475	----	----	-35	-22	-19	-21	-15	-16	-9	-2	1	18	1212	81	31	43
8	421	49	35	59	137	65	314	-80	-383	-895	-31	-19	-15	-10	-8	-7	-4	-2	1	8	37	166	85	18
9	3	6	8	14	7	26	-17	-56	-55	-125	-123	-29	-20	-20	-20	-14	-10	-5	1	12	24	72	47	49
10	26	94	136	12	21	25	31	----	-587	----	-686	-172	-18	-85	-34	-15	-4	-5	-2	9	16	13	37	24
11	17	20	92	331	45	24	-13	-23	-101	-185	-56	-221	-248	-73	-11	-6	-13	-3	-1	2	1	1	4	18
12	33	16	74	50	44	19	-8	----	----	----	-309	-247	-139	-113	-57	-8	-3	-3	6	9	50	28	37	30
13	52	60	74	477	393	85	15	-166	----	----	-557	-305	-483	-529	-31	-19	-23	-55	0	3	7	124	36	54
14	40	61	25	175	35	60	36	----	----	----	-534	-86	-90	-7	-5	-3	-6	-11	20	24	11	3	3	6
15	24	56	92	45	64	60	-24	----	----	-396	-69	-29	-14	-14	-12	-13	-7	-4	0	5	9	16	25	108
16	61	51	35	22	18	46	256	-64	-5	-4	-4	-6	-6	-6	-5	-4	-3	-1	1	4	7	195	93	31
17	9	11	25	57	35	22	64	-25	-19	-13	-10	-6	-9	-8	-5	-4	-4	-2	2	14	102	24	59	403
18	42	19	34	58	87	128	586	18	-55	-97	-5	-6	-9	-10	-8	-6	-3	-1	2	9	62	547	116	94
19	57	314	220	474	513	2012	142	----	-146	-565	-13	-12	-10	-13	-15	-13	-9	-3	4	19	50	281	439	215
20	67	187	100	65	133	186	387	-25	----	----	----	-111	-83	-36	-23	-19	-10	-3	5	28	31	84	++++	103
21	5409	591	1397	73	327	3199	9	++++	-263	-111	-407	-106	-36	-35	-38	-23	-12	-4	14	22	28	95	50	53
22	89	502	55	66	1316	75	1626	-546	-356	-701	-683	----	-131	-36	-31	-26	-13	-5	7	17	22	295	382	152
23	517	60	28	151	712	594	++++	682	-280	----	----	-568	-68	-26	-22	-22	-3	-1	5	20	26	19	14	235
24	80	30	205	122	5867	304	21	-240	-208	----	----	-59	-21	-21	-14	-17	-9	-3	5	19	26	82	254	49
25	69	22	494	311	109	59	-6	-49	-162	-189	-28	-13	-17	-18	-19	-17	-10	-5	8	24	25	30	81	48
26	35	82	48	58	185	43	18	-16	-28	-64	-42	-74	-138	-31	-22	-11	-7	-3	2	11	176	0	0	0
27	17	4	7	13	117	22	10	-78	-8	-17	-35	-28	-21	-44	-87	-14	-13	-5	-1	3	6	8	17	118
28	54	51	142	157	76	50	59	-150	----	-34	-12	-15	-20	-20	-20	-23	-97	----	-3	7	15	1	2	6
29	21	38	624	143	61	3078	-14	-70	----	----	----	----	----	-361	-25	-13	-12	-16	15	47	61	42	242	25
30	23	29	5038	237	118	1571	5999	----	----	----	----	-162	-42	-25	-42	-25	-18	-6	10	25	65	164	115	385
31	628	117	313	250	224	175	51	----	----	----	-262	-52	-21	-23	-23	-24	-16	-10	2	13	171	30	22	93

PERCENT VALID HOURS FOR JULY, 1996 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR JULY, 1996 XXXX(DD,HH) = ++++(23, 6) ++++(1, 2) ++++(21, 7) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — AUG, 1996

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	33	92	30	94	239	170	204	35	-759	-185	-18	-9	-8	-8	-7	-7	-4	-1	4	21	21	19	39	22
2	11	14	41	177	34	145	910	41	-40	-4	-4	-5	-5	-5	-5	-5	-3	0	2	6	5	10	17	23
3	31	17	65	88	177	51	43	6	-4	-4	-4	-5	-6	-6	-5	-4	-3	0	2	6	14	6	5	14
4	16	24	88	130	50	284	33	-146	-121	-317	-193	-76	-151	-51	-20	-14	-6	-2	3	14	38	83	67	1369
5	40	150	85	305	68	147	33	103	-20	-78	-12	-7	-6	-6	-5	-4	-2	-1	2	6	8	8	8	8
6	51	71	848	207	30	337	6388	39	-108	----	-708	-480	-769	-198	-147	-202	-32	-5	5	18	36	181	113	1405
7	84	110	16	30	****	****	****	****	****	****	****	****	****	****	****	****	-56	-44	195	234	42	40	308	447
8	++++	4175	851	1904	++++	51	1270	-89	-660	-150	----	----	-511	-94	-56	-75	-119	-27	41	24	113	82	52	109
9	83	54	60	87	4877	6595	54	-87	-403	----	-882	-236	----	-78	-614	-40	-48	-5	21	20	38	242	66	1401
10	159	94	127	41	++++	76	1285	65	-574	-252	----	-327	-256	-98	-102	-30	-10	-4	13	12	9	31	80	234
11	4620	161	3651	717	231	174	29	----	-230	-872	----	-228	-256	-70	-17	-15	-27	3	2	11	33	45	144	88
12	31	95	123	149	324	96	61	-24	-140	-432	-13	-9	-3	-6	-11	-3	0	1	5	12	76	16	62	86
13	51	53	149	186	925	372	14	3495	----	-894	----	-405	-64	-39	-22	-39	-38	-28	0	5	13	46	74	26
14	56	117	8690	96	420	70	52	----	-258	----	-448	-72	-25	-39	-14	-8	-5	-1	9	21	18	59	116	123
15	87	816	848	3218	58	27	23	-50	-178	----	-541	-76	-63	-44	-41	-20	-9	-2	4	11	15	32	17	17
16	20	20	4	56	14	47	84	48	-48	-537	-153	-52	-19	-18	-44	-1	4	3	15	22	25	39	33	12
17	40	106	59	32	41	122	34	57	-191	-546	-878	-52	-24	-13	-12	-8	-3	0	4	6	7	10	9	62
18	29	30	93	228	2090	104	169	85	-92	-29	-16	-7	-7	-6	-6	-6	-3	0	8	89	42	57	48	64
19	139	375	281	306	78	70	130	1	-29	-39	-17	-6	-6	-5	-4	-4	-3	0	5	11	40	40	21	234
20	1139	141	170	179	103	91	242	-10	-117	----	-37	-6	-6	-6	-8	-4	-2	1	11	63	58	39	481	3775
21	765	202	1045	78	2249	394	790	++++	-187	----	-815	-409	-94	-38	-27	-22	-11	2	21	43	250	449	328	90
22	415	1786	++++	++++	9956	7407	151	130	262	----	----	-629	-150	-71	-50	-59	-13	0	9	23	45	1092	211	111
23	62	30	70	71	290	34	1640	----	299	-192	-895	-375	-122	-84	-39	-63	-23	-3	2	1	5	6	15	21
24	17	504	51	69	16	25	560	5	-371	-207	-80	-49	-54	-48	-35	-14	-10	0	2	5	23	40	31	892
25	191	77	417	183	460	288	5857	104	3185	-152	----	-576	-274	-78	-50	-40	-57	-4	12	26	6	46	26	109
26	25	123	25	80	128	537	2341	-41	-309	----	-26	-6	-8	-7	-5	-5	-3	1	5	26	13	8	11	25
27	114	52	42	219	41	127	61	111	-5	-3	-4	-6	-7	-6	-6	-5	-2	2	20	854	49	1193	189	38
28	302	191	198	124	137	165	2040	1134	471	1635	2809	119	-36	-103	-70	-47	-31	8	16	18	130	67	4797	59
29	2285	++++	270	398	117	++++	372	161	81	----	----	-383	-295	-152	-63	-42	-6	5	14	22	47	329	217	108
30	1177	145	1907	1932	173	51	187	2564	-94	-75	----	-878	-198	-160	-32	-17	-12	7	16	26	110	259	389	85
31	140	175	49	145	85	259	237	-126	2587	-120	-161	-43	-18	-16	-14	-9	-3	3	22	16	266	20	104	126

PERCENT VALID HOURS FOR AUG, 1996 732*100/ 744= 98.4%

THREE HIGHEST VALUES FOR AUG, 1996 XXXX(DD,HH) = ++++(8, 0) ++++(21, 7) ++++(22, 2) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — SEPT, 1996

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	1464	129	29	67	26	40	86	47	-20	-88	-199	-87	-64	-72	-29	-8	-3	3	16	217	83	33	31	28
2	29	97	500	98	148	83	539	2060	----	-393	-65	-34	-40	-26	-17	-10	-4	3	22	62	146	442	40	74
3	31	101	168	130	159	1278	++++	322	-25	-190	-7	-5	-8	-7	-6	-3	-1	2	9	18	15	20	36	42
4	35	39	257	175	15	9	34	4	-2	-4	-5	-4	-4	-4	-3	-3	-1	0	2	2	3	4	4	3
5	6	23	18	27	18	45	45	-2	-4	-9	-10	-15	-12	-8	-6	-5	-3	1	4	12	89	352	1356	869
6	50	158	19	36	173	397	915	-16	----	-407	-163	-132	-149	-168	-41	-16	-7	1	18	61	33	79	58	59
7	84	190	349	83	33	80	163	16	86	-178	-595	-127	-26	-24	-21	-10	-6	1	12	93	121	600	58	162
8	55	307	106	1516	3495	++++	57	103	++++	-71	-682	-125	-154	-46	-25	-48	-13	-1	14	40	86	48	37	44
9	95	178	104	190	55	158	828	190	630	----	----	----	-132	-60	-37	-25	-12	-18	23	37	28	15	58	98
10	15	67	24	142	36	66	101	67	-46	-126	-170	-229	-132	-64	-35	-26	-12	2	18	20	39	131	7	15
11	10	26	14	44	50	79	++++	532	-42	----	-58	-161	-147	-56	-32	-24	-9	2	16	24	65	30	229	49
12	465	69	96	130	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	47	20	8	2	2	2	0	-2	-2	-1	-1	-1	-1	0	1	7	38	39	54	68	89
14	1032	135	563	1299	616	751	1791	872	++++	-167	-106	-63	-107	-119	-118	-79	-6	2	10	14	106	68	31	45
15	111	156	190	662	191	78	111	677	389	-8	-14	-21	-7	-3	-4	-2	-1	1	2	4	7	10	14	3
16	4	5	5	13	2221	124	14	4	-8	-32	-51	-53	-18	-16	-9	-6	-3	5	10	16	6	117	13	14
17	9	11	22	14	38	48	31	12	-67	----	-134	-129	----	-128	-47	-31	-5	5	24	69	41	51	133	161
18	57	31	86	30	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	97	127	191	2462	205	36	177	-61	-277	-62	-25	-12	-6	-1	7	22	154	54	43	120	74
20	1194	160	277	1436	412	476	418	1165	81	-700	----	----	-510	-76	-19	-9	-2	6	21	32	209	289	263	96
21	565	181	6859	2510	2013	205	4067	180	----	-893	-58	-50	-18	-13	-7	-3	-1	2	7	17	48	44	92	107
22	49	55	214	85	92	262	119	256	357	-18	-353	-237	-33	-14	-7	-4	-1	5	57	96	61	136	29	104
23	135	1989	1018	90	1019	157	939	144	144	400	-823	-89	-24	-12	-6	-3	0	3	13	14	72	93	95	74
24	121	146	242	94	1207	2962	1958	----	----	591	-549	-279	-32	-11	-7	-3	0	6	12	17	56	24	182	46
25	279	6043	677	1816	222	111	186	299	----	-4	-69	-22	-15	-9	-4	-1	0	3	14	26	30	142	458	272
26	84	208	92	103	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
27	****	****	****	83	26	18	8	2	-7	-8	-10	-10	-22	-131	-21	-184	-3	25	66	63	82	95	2073	118
28	135	279	205	645	397	860	246	379	2568	----	-651	-31	-7	-13	-18	-32	-3	22	88	265	371	137	90	62
29	++++	++++	1244	1367	684	1082	151	73	840	271	----	----	-834	-271	-193	-144	7	44	30	57	36	169	4058	158
30	423	228	487	551	637	6995	++++	428	++++	193	9167	79	-87	-46	-42	-6	1	9	21	42	60	90	++++	217

PERCENT VALID HOURS FOR SEPT, 1996 651*100/ 720= 90.4%

THREE HIGHEST VALUES FOR SEPT, 1996 XXXX(DD,HH) = ++++(8, 8) ++++(29, 0) ++++(29, 1) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — OCT, 1996

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	65	144	138	672	1090	77	256	1803	-3	-383	319	-293	-185	-51	-8	-4	-2	5	36	107	1171	582	409	90
2	290	492	231	276	512	595	106	70	1	----	-68	-98	-80	-36	-135	-75	-20	39	103	31	32	21	187	78
3	42	54	9029	63	633	205	129	34	148	-77	-400	-556	-274	-34	-13	-4	2	28	883	23	159	20	94	96
4	86	67	156	159	262	++++	1255	2549	10	-268	----	-51	-60	-39	-13	-8	2	47	88	37	16	56	436	598
5	3147	105	482	1306	3157	876	++++	102	157	++++	-330	----	-293	-131	-14	-83	-3	29	29	20	18	49	123	117
6	134	1337	3503	3429	1321	507	7173	4473	-54	----	1463	----	-293	-148	-466	-146	28	92	92	39	81	54	23	40
7	262	52	89	35	****	****	****	****	++++	724	385	-614	-33	-97	-23	-3	20	61	38	89	33	111	272	++++
8	549	427	200	218	++++	126	188	103	1759	7062	-105	-97	-155	-253	-678	-44	86	126	71	94	258	104	114	300
9	2697	646	197	2473	564	104	694	3151	19	824	2015	34	-798	-41	-11	-5	8	26	36	382	136	127	64	184
10	++++	++++	86	425	70	102	475	61	153	5	17	-103	-12	-6	-4	-1	3	10	35	124	805	18	209	80
11	1987	367	1118	3263	1959	459	++++	555	++++	1073	1508	69	-42	-18	-7	-1	2	10	421	75	31	67	70	181
12	403	127	196	5122	6975	178	1767	2212	671	++++	81	271	-124	-6	-2	0	3	17	33	105	138	299	403	621
13	382	1338	501	1741	196	166	7417	128	70	1080	74	1	-2	-4	-3	-1	4	32	29	156	276	83	1006	529
14	514	5838	4324	313	114	141	273	89	-73	-823	-476	-412	-407	-320	-281	-12	68	60	79	88	61	453	141	97
15	506	124	6578	695	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	17	10	32	665	7396	0	-9	-34	-61	-37	-252	-108	105	++++	52	224	72	83	152	199	124
18	502	2891	2302	803	542	354	186	4108	1304	4059	-265	----	-34	-4	-2	0	3	10	23	66	35	115	116	75
19	38	19	8	5	5	8	7	6	-2	-5	-16	-22	-29	-11	-6	-2	2	3	4	8	17	4	5	8
20	4	19	20	18	58	16	17	7	-4	-12	-17	-40	-69	-21	-11	-3	2	4	6	9	18	15	12	10
21	12	13	10	6	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
22	****	****	****	112	121	93	100	197	1613	817	91	----	59	-140	-105	-23	691	63	35	476	38	71	92	155
23	180	369	196	2327	436	194	239	1593	42	2450	-35	-298	-205	-27	-25	-1	43	43	92	120	131	58	125	441
24	121	182	118	99	81	71	73	142	79	41	-80	-304	-5	0	-1	1	2	6	83	52	22	66	26	6
25	20	39	3	3	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	267	77	63	10	4	0	-2	-2	-4	-2	-2	0	0	2	3	5	5	7	26	36	42
27	9	12	30	20	13	11	13	12	1	-2	-2	0	1	0	1	0	1	1	2	8	4	7	34	105
28	118	301	131	29	33	144	69	75	92	24	4	4	1	8	600	174	5	7	18	53	108	180	24	24
29	297	48	47	108	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	30	438	216	176	45	99	82	12	8	2	2	6	6	38	14	12	9	783	72	129	65
31	50	20	13	39	14	20	318	22	41	46	-7	-6	32	89	-11	271	177	284	36	29	44	178	124	79

PERCENT VALID HOURS FOR OCT, 1996 624*100/ 744= 83.9%

THREE HIGHEST VALUES FOR OCT, 1996 XXXX(DD,HH) = ++++(7, 8) ++++(17,16) ++++(5, 6) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — NOV, 1996

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	127	165	1482	58	57	685	98	++++	283	106	3	2	0	0	1	4	8	17	10	10	10	16	10	19
2	32	86	56	32	54	99	39	121	57	6	11	12	21	13	8	5	9	15	16	28	30	31	13	40
3	45	86	68	24	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
4	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
5	****	****	****	669	160	45	232	81	122	100	16	-5	-1	2	2	2	5	19	9	12	26	32	36	14
6	13	13	5	7	9	17	46	8	6	2	-3	-8	-28	-21	6	11	10	11	96	142	62	45	668	39
7	111	221	1614	62	269	119	63	319	112	8125	++++	1905	5680	28	-63	225	150	170	51	86	48	147	162	103
8	125	102	613	811	384	712	598	++++	4918	-590	668	303	-154	-141	292	505	823	119	54	115	43	2991	774	3748
9	635	209	382	78	64	78	45	++++	962	1454	991	893	10	1620	4349	32	104	113	21	51	168	95	783	417
10	1164	4021	276	1879	874	199	106	193	3049	++++	65	42	-993	-367	-268	2343	271	239	607	122	732	6087	2122	312
11	203	98	793	687	1692	125	64	355	++++	-64	-41	3572	1165	523	-148	348	142	32	150	93	81	7239	++++	442
12	1055	3632	668	496	899	73	563	614	485	803	++++	4431	5155	++++	2704	3158	69	43	77	724	234	81	78	74
13	851	78	252	127	107	51	115	844	577	137	183	69	245	27	114	3413	6841	44	132	301	206	40	111	39
14	371	340	44	113	31	52	174	62	72	152	16	16	17	70	6	19	19	20	40	84	1201	829	26	43
15	32	372	507	1142	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	115	50	34	55	20	99	47
18	412	3806	128	79	96	63	655	132	126	1569	212	-49	-36	-6	-2	5	38	130	21	29	63	114	143	6033
19	2442	422	294	363	222	852	165	771	3977	2248	1805	-537	----	231	22	116	19	12	16	13	23	90	31	42
20	168	73	73	115	389	41	560	1371	181	1057	470	196	13	-1	36	11	36	67	33	81	348	29	57	103
21	74	42	77	31	95	120	45	40	71	603	74	51	1492	-13	93	82	52	40	39	21	57	29	60	98
22	18	29	6	4	3	4	4	6	3	2	1	1	1	1	2	4	7	18	21	48	46	46	26	36
23	40	21	24	55	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
24	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
25	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	19	14	26	29	18	15	18	2	0	0	0	2	4	7	12	11	9	13	9	6	8
27	14	17	18	16	20	17	27	14	9	12	109	46	1	2	3	4	14	25	49	85	29	34	127	432
28	664	136	443	63	50	51	47	30	188	657	103	121	796	1589	1356	1847	108	29	67	28	30	20	42	54
29	27	19	17	22	55	127	34	17	21	8	1	0	-1	2	1	2	9	18	14	8	9	14	11	21
30	129	39	308	45	105	110	341	59	31	122	54	0	-41	-67	-4	3459	295	38	58	156	91	216	155	49

PERCENT VALID HOURS FOR NOV, 1996 541*100/ 720= 75.1%

THREE HIGHEST VALUES FOR NOV, 1996 XXXX(DD,HH) = ++++(12,10) ++++(9, 7) ++++(8, 7) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 2, 0.50-4.0 M LEVELS — DEC, 1996

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	611	93	115	151	94	85	85	463	865	329	380	88	0	6	8	15	24	36	52	379	61	16	17	99
2	91	124	73	54	59	103	104	84	414	256	116	651	1444	174	873	293	1348	52	77	54	33	74	104	63
3	220	971	463	176	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
4	****	****	****	96	72	155	158	118	981	219	1502	334	1692	128	1928	3950	129	217	75	109	355	25	45	54
5	70	151	87	103	159	54	251	60	187	494	76	49	87	230	148	561	117	91	27	598	52	39	59	93
6	460	++++	259	74	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
7	****	****	****	440	54	519	52	63	167	1920	3607	371	127	-3	-60	14	21	40	22	41	209	111	313	167
8	75	115	86	180	369	184	104	49	179	++++	394	1342	221	1905	192	2701	105	57	17	211	422	224	40	60
9	329	62	85	44	145	70	58	100	43	19	35	62	23	16	11	11	25	16	28	30	25	27	22	11
10	7	6	15	8	6	6	5	8	13	4	3	3	3	4	3	5	4	5	5	5	7	7	12	12
11	9	12	9	9	9	12	14	14	32	44	108	17	83	11	19	48	151	350	37	140	345	34	393	85
12	40	106	70	492	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
15	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
18	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	270	49	54	76	43	247	81	86	101	86	86	58	534	210	687	79	116	54	82	71	28
21	78	40	186	63	466	71	89	688	177	281	27	17	6	4	3	4	3	1	1	2	2	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	1	1	2	2	3	14	16
23	25	24	21	22	12	44	42	80	36	26	81	63	15	8	7	16	21	13	39	275	109	45	14	22
24	40	72	40	40	104	164	75	35	95	66	96	43	20	97	29	24	28	107	61	402	118	55	126	55
25	154	173	519	143	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	19	15	14	35	23	13	16	12	65	100	2727	75	42	135	59	14	67	122	42	71	52
27	28	81	28	21	279	55	14	7	9	19	12	4	7	18	7	2	3	7	26	35	22	19	45	141
28	51	40	17	82	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
29	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	47	11	47	14	16	9	19	15	76	17	95	15	24	28	25	41	17	14	11	62	1045
31	1869	29	67	59	34	63	35	19	18	9	10	208	129	1544	384	143	64	95	21	33	15	29	51	20

PERCENT VALID HOURS FOR DEC, 1996 437*100/ 744= 58.7%

THREE HIGHEST VALUES FOR DEC, 1996 XXXX(DD,HH) = ++++(6, 1) ++++(8, 9) 3950(4,15) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — JAN, 1996

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	48	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
2	****	20	10	16	268	363	++++	1451	217	-7	----	-522	----	-500	----	-146	282	406	313	468	4908	4096	688	227
3	1398	1195	614	2454	288	748	++++	74	284	----	----	-810	-961	-528	-6	12	25	69	1369	134	342	533	1495	3107
4	3998	982	2902	879	1241	6767	284	1190	191	----	----	----	----	-78	-25	1	19	59	77	1737	540	++++	5869	249
5	418	118	65	4976	223	532	773	33	----	-18	----	----	----	-860	-496	-5	29	46	341	185	1228	1346	243	1934
6	907	237	619	2046	4239	864	267	3746	790	-6	----	-677	----	----	-55	1	1768	634	775	3831	2331	1119	1663	958
7	502	2259	478	5006	1208	++++	1529	885	410	-600	----	-762	----	-921	-115	4146	143	665	2567	203	429	4690	824	952
8	840	1255	++++	9761	2855	1555	++++	687	87	----	----	----	----	----	----	1190	176	332	317	396	405	3856	105	327
9	6097	++++	1240	109	680	7696	1475	289	712	-40	----	-225	-250	----	----	122	708	6411	440	114	520	355	789	674
10	4536	308	249	++++	225	1717	429	2188	88	1	-20	-34	-43	-23	-17	-3	11	16	9	8	9	10	14	61
11	181	114	++++	88	370	429	186	211	1240	++++	----	----	----	-569	----	-1	22	32	52	51	1045	++++	5332	1542
12	405	98	184	166	455	611	136	491	2115	-6	----	----	-607	-453	-151	6	45	66	490	233	347	++++	++++	3965
13	688	1711	7220	3446	++++	1183	2579	24	222	-105	----	----	----	----	-511	-34	26	29	532	701	1278	2895	3390	3840
14	926	1226	++++	114	++++	++++	++++	887	708	-73	-363	-369	----	-947	----	11	19	153	750	++++	++++	144	532	4874
15	++++	1202	269	167	++++	4392	456	4595	275	----	-713	----	----	----	----	-38	139	381	868	++++	266	1100	++++	642
16	++++	8971	++++	1057	323	7887	2049	875	++++	-589	-950	-32	----	----	-16	-1	3	3	1	2	2	2	3	4
17	6	17	3	6	18	16	7	6	0	-5	-10	-13	-19	-13	-9	-10	5	13	14	13	27	69	23	183
18	230	++++	++++	52	++++	169	1565	++++	59	-36	-55	----	----	----	-177	-216	-4	23	4188	138	248	160	229	334
19	586	805	1255	198	1237	876	594	2062	30	-135	----	----	----	-603	-64	13	15	17	23	378	147	139	423	++++
20	587	518	897	1663	++++	8494	3888	++++	277	----	-69	-133	-503	-268	-90	-9	27	129	1444	332	621	++++	744	1581
21	++++	++++	7763	559	1783	813	3856	340	194	-206	-6	-7	-8	-4	-3	-2	3	475	114	4	-1	6	13	16
22	23	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
23	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
24	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
25	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
27	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
28	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
29	****	809	235	++++	169	996	1838	1094	357	----	-159	----	-958	----	-238	-132	14	436	7648	++++	893	++++	++++	2409
30	++++	++++	2652	89	44	73	221	1069	23	-267	----	----	----	----	----	-311	229	3407	1412	++++	464	83	148	526
31	1271	1058	326	++++	++++	160	24	22	17	-108	----	----	----	----	-729	----	-43	42	2	6	7	16	7	30

PERCENT VALID HOURS FOR JAN, 1996 552*100/ 744= 74.2%

THREE HIGHEST VALUES FOR JAN, 1996 XXXX(DD,HH) = ++++(18, 1) ++++(31, 3) ++++(14, 5) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — FEB, 1996

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	565	113	54	176	121	94	879	585	-76	----	----	----	----	----	-310	-114	-7	8	31	93	82	295	104	40
2	529	190	172	++++	2942	209	160	1728	92	-104	-297	----	-541	-563	-104	-43	0	23	13	114	469	165	1505	251
3	++++	328	3610	2544	387	968	++++	4862	421	-3	-13	-170	-37	----	----	-26	40	128	1778	54	383	1074	174	494
4	361	++++	4398	2986	++++	403	2120	181	1745	-156	----	----	----	----	-786	-467	-819	90	396	1879	239	138	347	51
5	127	1214	50	31	70	58	57	61	0	-154	----	----	----	-184	-62	-136	21	82	86	359	++++	157	3211	347
6	442	8929	++++	311	++++	2167	784	591	----	-702	----	----	----	----	-510	-316	0	47	647	1318	1524	550	3688	65
7	4851	5561	3094	3393	352	1156	8089	4318	288	----	----	-373	-544	----	-871	31	114	397	401	213	++++	1440	++++	4200
8	++++	7858	261	1913	183	314	1366	1623	401	----	----	----	----	----	----	-31	36	70	144	182	++++	653	230	1146
9	1727	172	++++	4690	1871	++++	++++	465	5302	-117	-42	-45	----	-313	-402	-236	26	38	82	986	362	++++	1035	252
10	82	55	150	623	90	41	56	174	19	-56	----	-325	-451	----	-187	-51	6	26	158	87	220	188	221	1862
11	586	385	584	1456	5298	174	170	275	117	7	-697	-500	-292	-191	-90	-35	-1	13	89	261	452	6096	543	++++
12	2022	8614	81	185	++++	3727	9635	99	3246	++++	-572	-605	-46	-50	-34	-22	1	13	64	237	5169	1332	259	349
13	300	4878	580	612	++++	3845	85	45	208	-713	----	----	----	-813	----	-675	-84	38	74	++++	1399	++++	++++	17
14	65	1136	281	862	910	266	2201	1221	11	-25	----	----	----	----	-717	-139	14	29	66	396	85	928	1253	128
15	592	1815	576	3312	411	5154	18	54	----	-60	-380	-521	----	-883	-444	-50	5	19	94	584	152	118	267	82
16	412	68	301	203	317	657	188	403	171	-21	-257	----	-219	-163	-88	-58	-10	28	43	680	68	4298	293	2566
17	696	65	379	9061	310	1072	5591	1100	2	-192	-33	----	----	-134	-30	-14	10	50	68	73	381	7710	119	288
18	852	1298	++++	318	299	++++	487	4662	254	-680	-80	-38	----	----	-105	-65	-6	15	182	431	164	158	4206	1363
19	4718	182	++++	91	891	378	209	190	27	-38	-43	-8	-13	-7	-5	-2	-1	0	0	1	1	0	1	1
20	1	0	1	0	1	0	0	0	-2	-3	-1	-3	-3	-3	-3	8	2	1	2	5	5	2	11	170
21	8	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
22	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
23	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
24	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
25	****	****	****	****	****	****	****	****	****	-7	-11	-13	-23	-36	-59	-273	-312	-5	-3	-16	-11	-6	3	15
26	5	12	3	25	12	43	1088	360	126	5	-20	-54	-33	-30	-26	-26	-21	-6	2	14	73	158	113	158
27	++++	589	1132	29	69	715	34	-34	-70	-18	----	----	-204	-331	-299	-44	-23	-28	-55	-228	-108	-1	-134	0
28	0	0	0	0	1	****	1	1	17	118	++++	1362	-164	----	-247	----	-578	-104	418	206	418	137	1970	474
29	190	391	65	1165	773	2007	109	14	-2	-62	-462	----	----	-757	----	----	----	-166	134	265	79	1327	495	4049

PERCENT VALID HOURS FOR FEB, 1996 591*100/ 696= 84.9%

THREE HIGHEST VALUES FOR FEB, 1996 XXXX(DD,HH) = ++++(4, 4) ++++(7,20) ++++(9,21) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — MAR, 1996

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	50	371	240	1571	48	1439	2517	146	220	-201	-467	----	----	-132	-50	-32	-9	15	27	34	214	603	335	3175
2	++++	1429	882	540	280	179	216	451	66	-835	----	-419	-624	----	----	-689	-118	26	47	1574	75	956	1338	122
3	948	226	181	8502	2640	76	256	281	-9	-240	----	-6	-211	-196	-36	-32	6	198	315	173	316	426	178	1005
4	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
5	****	****	****	****	****	****	****	****	****	-12	-14	-16	-16	-10	-9	-6	-2	1	2	0	0	0	0	3
6	50	34	10	205	456	1374	3926	263	-117	-36	-86	-266	-217	-158	-304	-321	-42	22	50	90	47	156	828	6370
7	61	352	447	53	843	333	++++	179	-22	-603	-36	-443	----	----	----	----	-167	78	123	390	932	156	3561	767
8	1107	++++	676	247	5195	34	1104	740	-4	----	----	-906	----	-293	-69	-77	-32	13	82	66	118	229	++++	571
9	5523	729	568	231	208	249	1143	288	89	-46	-303	-457	-191	-822	-60	-47	8	34	1862	98	168	36	184	261
10	89	78	363	621	5221	9786	1607	43	-783	-789	----	-67	-27	-28	-26	-18	-14	11	18	42	531	319	408	++++
11	624	++++	424	583	911	205	1151	117	-112	-116	----	-63	-48	-49	-40	-31	-18	3	7	13	839	252	42	893
12	410	1023	284	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	141	26	664	101	16	-16	-702	-666	----	-566	----	----	-696	-134	-62	135	124	29	54	100	11
15	2596	31	54	++++	++++	624	7137	7	-25	-110	-215	-789	-482	-226	-395	-155	-80	23	65	27	67	917	921	1266
16	++++	89	249	187	591	289	218	131	-222	-286	-22	-15	-42	-37	-59	-63	-39	14	28	15	56	134	159	137
17	61	31	80	27	47	157	420	17	-273	----	-967	-423	-214	-123	-77	-269	-66	10	26	31	265	67	21	22
18	39	49	215	179	1524	1691	603	++++	-24	-117	----	-428	-913	----	----	----	-437	-108	20	227	787	248	++++	2693
19	329	71	124	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
21	****	****	****	112	++++	248	15	57	----	-711	----	----	-822	-84	-52	-42	-13	5	20	30	1355	323	1034	++++
22	525	712	480	675	1263	2533	++++	9	-28	----	-31	-28	-22	-24	-23	-12	-3	0	2	2	17	8	7	3
23	4	7	2	34	32	20	24	-28	-49	-91	-72	-39	-21	-23	-33	-32	-17	-4	3	11	15	25	29	300
24	268	187	123	100	698	2621	3324	12	-42	-942	----	-768	-110	-86	-27	-20	-21	-2	6	13	20	139	150	159
25	523	268	127	++++	1072	666	304	222	-230	----	----	----	-975	-244	-178	-93	-124	-10	-2	-3	-5	-4	-1	2
26	4	4	4	7	6	6	6	-14	-43	-110	-181	-295	----	----	----	-446	-339	-8	14	31	158	2892	170	387
27	339	++++	1542	766	++++	879	332	-18	-672	----	----	-242	-301	-161	-58	-40	-14	0	31	3671	96	1109	176	209
28	136	1517	378	915	578	7463	219	42	-187	-14	-15	-12	-16	-12	-9	-5	-3	-1	0	-6	-5	-5	-9	0
29	10	167	290	151	220	126	14	-107	-529	-123	-311	-499	----	----	----	-515	-65	-5	24	44	32	489	1056	308
30	837	661	31	9942	900	216	++++	-11	----	-162	----	----	----	-222	-92	-75	-26	-2	15	21	6331	237	9533	365
31	170	138	116	737	88	99	2886	-12	----	----	-484	----	----	-406	-71	-31	-12	0	14	35	277	388	288	1206

PERCENT VALID HOURS FOR MAR, 1996 615*100/ 744= 82.7%

THREE HIGHEST VALUES FOR MAR, 1996 XXXX(DD,HH) = ++++(18, 7) ++++(30, 6) ++++(21,23) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — APR, 1996

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	152	546	751	836	268	536	660	-895	----	-334	-34	-19	-14	-13	-13	-10	-4	-1	-1	-1	0	3	4	3
2	4	9	7	12	24	35	274	-36	-968	-447	-328	-89	-131	-145	-260	-513	-55	-18	12	26	69	1049	1021	5504
3	7083	7570	2182	404	237	239	325	-67	----	----	----	----	----	-354	-148	-87	-81	-24	5	12	118	2107	++++	1345
4	146	15	14	28	17	16	3	-16	-25	-37	-51	-56	-33	-34	-29	-31	-20	-3	14	17	15	14	9	16
5	16	11	9	10	12	11	6	-9	-19	-21	-31	-45	-80	-150	-135	-127	-40	0	35	154	6227	1161	4865	292
6	192	807	391	++++	1974	864	4468	-1	-452	-864	----	----	-412	----	----	-483	-782	4	58	362	107	260	++++	414
7	282	1608	497	758	1550	298	2699	-40	----	-137	----	----	----	----	----	----	-55	-4	20	29	115	4136	210	437
8	227	26	246	46	248	148	1322	-42	-550	-188	----	-401	-81	-55	-44	-29	-12	-2	13	60	44	65	272	326
9	100	176	602	1411	154	1499	250	----	----	-817	-141	-26	-23	-16	-12	-14	-11	0	7	10	41	540	306	2399
10	114	1118	1748	1323	212	338	291	-56	----	----	-358	-214	-78	-52	-30	-24	-12	-2	11	17	19	17	16	301
11	158	67	4	23	110	68	2	-37	-69	-66	-100	-268	-525	-377	-540	-210	-38	-10	10	45	41	323	1470	1508
12	3823	68	11	264	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	97	2373	284	880	32	-795	-109	-279	----	----	-430	-457	-302	----	-17	15	28	254	2633	19	33
14	11	12	21	1267	551	++++	136	----	-449	-138	-108	-90	-354	----	----	-248	-175	-121	19	742	653	242	++++	100
15	++++	684	102	36	282	1610	26	-260	-455	-69	-343	----	----	-345	-130	-34	-16	-4	7	31	5182	719	133	7
16	8	4	11	32	21	13	-2	-3	-7	-6	-4	-5	-15	-21	-18	-9	-5	-2	1	2	1	1	1	1
17	4	4	6	9	11	7	-1	-9	-33	-40	-38	-57	-36	-35	-32	-23	-8	-3	0	1	0	0	1	0
18	1	0	0	0	1	0	-2	-6	-15	-18	-20	-43	-51	-61	-54	-63	-47	-12	4	8	10	8	14	24
19	224	1253	++++	637	905	++++	575	-299	-58	----	----	----	----	-614	-286	-52	-34	-32	8	24	30	1117	2881	80
20	440	294	105	1334	479	++++	11	-51	-55	-85	-92	-206	----	-608	-548	----	-694	-123	-10	48	7	65	++++	737
21	5668	++++	849	3320	821	261	2882	----	----	----	----	----	----	-178	-125	-135	-146	-202	44	27	1368	126	552	610
22	1573	++++	1368	6219	134	77	7	-11	----	----	----	-437	-306	-323	-757	-276	-205	-19	18	74	596	1258	71	323
23	2455	252	1308	++++	++++	366	933	----	-563	----	----	----	-310	-158	-82	-107	-66	0	51	279	3193	106	3495	303
24	3794	276	2521	4788	678	301	80	-148	-504	----	-132	-62	-37	-39	-22	-17	-10	-3	8	10	7	11	26	57
25	491	90	35	39	31	46	7	-46	-82	-92	-94	-128	-181	-174	-152	-54	-46	-16	17	36	1118	254	779	421
26	300	1366	5408	773	1307	172	5958	----	----	----	----	----	----	-105	-34	-33	-22	-5	14	33	2794	260	664	786
27	44	151	137	166	295	5683	390	----	-386	-93	-338	-721	-367	-115	-49	-26	-24	-5	5	15	11	5	9	5
28	3	4	5	10	12	6	-4	-13	-15	-21	-20	-30	-38	-46	-38	-29	-23	-10	1	13	20	18	15	21
29	51	189	994	45	8867	++++	-4	-147	----	-393	----	----	----	----	----	----	----	-277	27	33	78	461	130	451
30	408	181	2044	639	170	2756	15	-32	-682	----	----	----	-924	----	-317	-55	-24	-4	11	18	14	9	15	51

PERCENT VALID HOURS FOR APR, 1996 697*100/ 720= 96.8%

THREE HIGHEST VALUES FOR APR, 1996 XXXX(DD,HH) = ++++(22, 1) ++++(3,22) ++++(19, 2) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — MAY, 1996

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	45	590	357	351	456	++++	116	----	-34	----	-648	-783	-554	-170	-101	-130	-44	-6	28	62	24	2373	407	967
2	++++	591	58	2085	426	805	40	-102	-300	----	----	-95	-73	-62	-39	-36	-19	-10	18	27	29	85	139	346
3	469	++++	544	++++	3498	205	442	-107	----	----	----	-167	-98	-104	-54	-49	-32	-7	12	42	306	255	85	679
4	805	1394	163	108	222	199	144	-8	-873	-722	----	----	----	----	-150	-113	-71	-31	-5	19	23	430	222	147	1074
5	1842	550	662	3238	948	393	4892	----	----	----	-480	-259	-136	-82	-57	-54	-42	-13	18	49	++++	444	3225	1465
6	++++	478	389	3775	1106	925	28	-72	-587	----	----	----	-111	-68	-42	-34	-19	-13	6	151	7187	113	97	105
7	117	6499	618	628	1819	639	238	12	-48	-91	-136	-169	-144	-102	-99	-51	-33	-8	7	25	63	1050	982	142
8	226	661	288	103	166	475	22	-13	-196	-476	-279	-287	-144	-85	-66	-37	-23	-9	1	10	13	38	10	8
9	3	7	134	19	15	17	-21	-253	----	----	-452	-349	-542	----	-222	-584	----	-29	1	13	58	232	429	232
10	327	440	480	193	4210	88	2	-43	----	----	----	----	-598	----	-588	-419	-145	-23	15	53	147	853	9005	2363
11	4520	1193	13	65	2566	3539	14	----	-75	----	----	----	----	----	----	-213	-116	-1	22	69	622	369	297	8447
12	662	289	455	933	1474	++++	1050	-24	----	----	----	----	-294	-245	-230	-104	-30	-5	10	44	59	92	81	735
13	1259	564	1216	707	131	400	624	-406	----	----	-117	-81	-78	-57	-43	-33	-23	-1	8	24	75	41	12	34
14	29	++++	67	45	71	904	240	-31	-88	-152	-183	-182	-192	-73	-61	-33	-21	-9	-1	3	1	4	12	14
15	92	20	27	189	++++	1373	-897	-274	-66	-38	-52	-41	-20	-13	-14	-11	-5	-4	-1	-2	-2	-2	-1	-1
16	0	-1	0	0	1	1	-4	-7	-9	-8	-9	-12	-17	-10	-9	-10	-5	-4	-2	0	2	9	3	3
17	26	46	141	9452	56	9	-25	-371	-222	-181	-332	-911	-85	-34	-24	-21	-14	-5	2	4	8	11	22	26
18	25	26	34	25	13	7	-4	-12	-10	-16	-18	-19	-16	-18	-24	-14	-6	-4	0	3	3	63	30	28
19	180	174	317	2074	77	228	41	-334	-100	-150	-157	-115	-79	-80	-87	-56	-61	-26	5	18	15	22	452	68
20	34	44	31	18	11	10	-5	-39	-109	-329	-756	----	----	----	----	----	----	-65	0	13	24	925	1842	301
21	2809	6107	1292	46	229	23	32	-52	-90	----	-642	-188	-64	-32	-25	-31	-32	-27	4	333	57	11	5	16
22	5	4	11	29	297	1426	32	-46	-77	-123	-152	-126	-122	-84	-61	-44	-28	-12	4	5	8	7	5	4
23	5	20	16	89	21	21	-41	-54	-105	-334	----	----	----	-220	-158	-34	-9	-6	-16	-8	-8	-2	-2	-4
24	-4	-4	-2	-1	-2	-4	-4	-3	-3	-23	-10	-8	-11	-27	-47	----	-126	-42	-31	-26	-39	-2	6	8
25	28	-255	52	29	30	8	-6	-27	-66	-172	-207	-92	----	----	-151	-151	-39	-41	-77	195	66	20	-17	-7
26	-47	-11	-16	22	14	-23	-102	----	----	----	----	----	----	----	-325	-199	-129	-98	-29	-12	-1	77	901	58	117
27	122	162	371	49	52	74	20	----	-172	-12	-18	-34	-48	-27	-33	-43	-18	-11	-8	-10	-20	124	67	665
28	1673	9218	338	1001	1050	232	-8	-95	----	----	----	----	----	-172	-400	-157	-49	-33	5	50	437	78	357	650
29	759	121	279	166	104	429	-19	-685	-32	-24	-23	-26	-26	-37	-36	-33	-25	-16	2	12	33	62	1785	++++
30	47	320	1495	896	++++	162	58	-740	----	----	----	----	----	-124	-106	-118	-159	-75	6	24	125	581	158	2938
31	281	555	599	117	1115	593	1427	-108	----	----	----	----	-244	-279	-154	-116	-82	-36	6	36	93	++++	++++	++++

PERCENT VALID HOURS FOR MAY, 1996 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR MAY, 1996 XXXX(DD,HH) = ++++(1, 5) ++++(3, 1) ++++(31,21) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — JUNE, 1996

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	1544	1420	258	159	554	1223	302	-163	----	----	----	----	----	----	----	----	-731	----	5	54	6892	562	68	++++
2	993	743	359	178	1153	1221	53	-49	----	----	-672	-253	-844	-851	-424	----	----	----	187	154	103	730	872	561
3	146	1726	5718	3285	315	1874	474	----	----	----	----	----	-176	-480	-520	-817	-524	-56	11	38	222	1954	5081	++++
4	701	463	26	5193	8257	103	8	----	----	----	----	-137	-82	-85	-68	-47	-53	-13	9	28	96	2734	1711	415
5	1329	764	8103	634	361	2695	26	----	----	----	-971	-212	-96	-75	-71	-94	-80	-39	19	36	59	1752	710	++++
6	1184	123	164	89	2928	470	32	----	----	----	----	----	-604	-436	-336	-305	-206	-65	-2	7	80	574	128	1741
7	2644	202	1365	1276	975	548	4	-130	-886	----	----	-228	-164	-62	-57	-33	-22	-12	2	15	17	164	1182	100
8	162	577	++++	520	558	74	-110	----	----	-711	-493	-61	-25	-45	-60	-65	-60	-34	7	29	56	++++	90	882
9	409	730	1746	95	186	65	-194	-837	-977	----	-297	-175	-261	-342	-228	-219	-105	-13	12	28	10	102	430	3256
10	383	2597	248	227	1086	832	16	----	----	----	-352	-162	-133	-95	-72	-92	-43	-26	3	18	41	31	526	652
11	494	226	353	406	1149	265	1071	----	----	-350	-287	-318	-149	-71	-53	-39	-36	-19	1	23	91	182	311	60
12	214	4576	298	++++	136	531	-2	----	----	----	-422	-203	-94	-81	-33	-18	-14	-6	0	12	21	2525	168	434
13	561	301	652	288	51	155	5	-146	----	----	----	----	-227	-220	-79	-27	-17	-8	0	13	18	449	462	423
14	8634	100	119	777	153	5953	-460	----	----	----	----	----	-240	-138	-104	-51	-29	-13	3	16	163	1826	69	41
15	321	7644	2643	359	2088	113	5	-584	----	----	-434	-98	-76	-47	-33	-28	-21	-10	1	9	84	480	82	427
16	142	420	368	667	1293	167	-42	-148	----	----	-107	-19	-25	-21	-17	-17	-17	-11	0	19	57	24	400	335
17	576	2207	291	736	7365	386	1537	-194	-67	-16	-20	-32	-35	-42	-36	-31	-19	-12	1	14	29	20	83	412
18	48	++++	8034	359	1016	380	175	-132	----	-759	-231	-220	-111	-70	-29	-41	-21	-12	0	55	721	583	431	777
19	94	194	2303	994	529	4862	801	----	----	----	-534	-231	-39	-24	-35	-29	-38	-6	1	8	18	10	4	6
20	6	8	9	60	151	291	80	-10	-8	-22	-25	-30	-17	-26	-22	-25	-17	-7	0	22	48	35	43	18
21	30	62	41	141	73	246	37	-362	-47	-16	-13	-22	-40	-26	-24	-22	-15	-8	-3	6	9	8	14	24
22	55	158	1173	2087	165	266	-40	-272	-211	----	----	----	----	-292	-557	-114	-61	-28	-4	14	36	123	1022	98
23	466	6558	1326	121	1367	2277	-292	-186	-167	----	-702	-147	-142	-83	-48	-31	-16	-8	0	8	10	77	43	28
24	700	298	84	218	544	2891	279	-18	-29	-20	-17	-19	-26	-25	-20	-12	-9	-6	-2	4	6	4	2	19
25	319	48	432	41	22	18	-32	-120	-26	-30	-30	-22	-30	-20	-12	-11	-10	-12	-5	20	14	20	9	8
26	-7	15	18	1	-5	-4	3	2	-9	-28	-46	-29	-9	-9	-18	-9	-11	-8	0	12	15	13	14	48
27	639	128	438	51	178	261	-8	-111	-101	----	----	-219	-145	-190	-113	-67	-52	-34	-6	20	49	203	1047	821
28	40	836	465	185	4061	143	-41	-5	----	----	----	-610	----	----	----	-680	----	-611	-116	91	67	3304	102	++++
29	1023	158	252	108	38	171	0	-42	----	----	----	----	----	----	----	-756	----	----	-390	++++	++++	659	549	4061
30	287	122	4798	1769	41	2720	10	-510	-282	----	----	----	----	----	-191	-126	-75	-35	12	45	124	2161	263	++++

PERCENT VALID HOURS FOR JUNE, 1996 720*100/ 720=100.0%

THREE HIGHEST VALUES FOR JUNE, 1996 XXXX(DD,HH) = ++++(8, 2) ++++(8,21) ++++(18, 1) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — JULY, 1996

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	823	399	34	324	++++	1568	293	-147	----	----	----	----	-177	-157	-151	-87	-71	-29	4	19	223	2691	843	1890
2	645	272	397	3185	++++	3512	166	----	----	----	----	-130	-180	-144	-88	-68	-36	-23	-3	9	31	43	1853	++++
3	98	211	49	66	28	183	59	-333	-127	-35	-41	-34	-35	-23	-29	-26	-21	-12	-2	3	7	1	14	554
4	54	83	27	201	572	255	263	----	----	-546	-84	-45	-41	-40	-38	-41	-27	-16	-2	21	2187	550	634	231
5	63	573	532	290	735	352	-29	-147	----	-797	-667	-527	-186	-94	-76	-52	-34	-17	-4	15	22	90	359	126
6	65	7276	++++	482	256	3482	384	-255	-795	----	----	-220	-157	-159	-162	-108	-37	-34	3	23	40	170	82	619
7	++++	617	596	498	138	4212	125	-248	----	----	-148	-89	-78	-87	-75	-76	-49	-15	-3	18	607	1387	4179	290
8	207	538	1115	248	2397	471	4268	----	----	----	-190	-107	-75	-43	-32	-30	-17	-11	-3	9	33	458	144	159
9	2	3	4	24	9	49	-228	-939	-617	-537	----	-149	-101	-83	-106	-65	-55	-25	-6	15	24	22	38	92
10	82	1812	++++	120	39	157	-185	-629	----	----	----	----	-37	-158	-102	-52	-26	-35	-12	-10	-5	6	42	7
11	23	26	53	157	1803	127	-490	----	----	----	-268	----	----	-217	-43	-37	-84	-19	-16	-7	-7	-10	0	6
12	54	54	84	332	276	94	-313	-993	----	----	----	----	----	-168	-56	-73	-16	-18	-21	16	158	44	29	106
13	4318	9297	++++	1287	89	2041	-12	-683	----	----	----	----	----	----	-253	-94	-103	-391	-55	2	17	324	63	116
14	52	115	204	73	198	174	-41	-516	----	----	----	-505	-49	-25	-26	-17	-30	-128	-724	44	18	8	0	3
15	57	687	1666	219	1288	421	----	----	----	----	-430	-115	-58	-63	-56	-61	-40	-21	-6	-2	-3	-1	7	11
16	7	676	1506	958	86	573	147	----	-22	-16	-18	-27	-27	-24	-19	-17	-11	-5	-1	4	8	98	295	77
17	27	14	45	3563	58	181	163	-132	-109	-57	-50	-29	-44	-32	-23	-17	-17	-12	0	15	431	251	203	3804
18	3538	86	46	68	196	1021	165	----	----	----	-24	-26	-40	-44	-40	-26	-18	-6	1	11	66	70	++++	72
19	75	1370	286	1017	345	349	47	-95	-452	----	-67	-57	-39	-56	-74	-60	-52	-26	3	23	141	1584	222	1917
20	430	1041	433	601	++++	3052	857	-28	----	----	----	----	-550	-152	-128	-89	-49	-30	6	39	385	1425	315	1006
21	246	2483	144	467	1602	++++	27	----	----	----	----	-515	-186	-185	-212	-130	-76	-32	21	36	32	104	644	223
22	347	792	2268	527	++++	797	3792	----	----	----	----	----	----	-174	-159	-96	-71	-32	11	25	31	150	423	77
23	145	448	++++	5866	2049	804	-213	----	----	----	----	----	-322	-123	-112	-93	-17	-8	7	25	48	27	20	69
24	++++	271	213	175	300	151	372	-883	-223	----	----	-362	-113	-95	-63	-80	-51	-19	7	38	90	287	++++	256
25	470	184	463	2883	1674	8755	59	----	----	----	-116	-62	-81	-87	-108	-68	-49	-35	13	32	61	101	300	157
26	91	1202	577	607	185	142	20	-175	-153	-228	-199	-341	-586	-146	-120	-56	-36	-22	-3	9	704	0	-1	-1
27	-51	4	8	4	566	66	-132	-619	-340	-972	-235	-157	-146	-279	-390	-63	-81	-33	-13	-2	4	6	11	137
28	++++	498	128	1362	++++	203	75	----	----	-188	-57	-75	-90	-91	-85	-110	-37	-32	-9	3	27	-4	2	10
29	31	652	1108	160	6344	54	----	-692	----	----	----	----	----	----	-90	-41	-69	-110	23	97	379	317	837	98
30	109	166	131	9576	339	29	390	-299	----	----	----	----	-219	-138	-210	-137	-101	-55	12	25	760	++++	163	394
31	662	167	2423	428	328	450	60	----	----	----	----	-333	-93	-122	-92	-101	-79	-29	-4	8	166	163	70	522

PERCENT VALID HOURS FOR JULY, 1996 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR JULY, 1996 XXXX(DD,HH) = ++++(30,21) ++++(28, 0) ++++(13, 2) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — AUG, 1996

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	74	449	3837	3266	387	52	125	----	----	----	-82	-44	-37	-38	-30	-34	-19	-10	4	26	36	19	163	668
2	131	49	48	143	291	402	413	355	----	-15	-17	-23	-22	-19	-23	-21	-13	-5	2	8	8	12	15	28
3	53	41	++++	162	502	384	181	-52	-19	-19	-18	-22	-24	-25	-23	-19	-15	-6	1	8	17	10	8	23
4	44	41	305	1180	137	165	202	----	-668	----	----	-631	----	-234	-100	-67	-34	-12	2	15	28	152	788	310
5	545	949	6495	5187	3186	1386	22	-70	----	----	-55	-27	-25	-28	-24	-18	-12	-6	1	8	10	12	15	17
6	148	240	179	439	3239	267	29	-196	----	----	----	----	----	----	----	----	-727	-179	-60	6	20	35	1020	5836	598
7	1152	1452	158	105	****	****	****	****	****	****	****	****	****	****	****	****	-731	-911	2344	74	623	223	112	192
8	127	2573	583	327	968	2511	234	----	----	----	----	----	----	-820	-635	-351	-145	-70	22	46	218	454	148	72
9	874	892	203	935	620	1395	105	-439	----	----	----	----	----	----	----	----	-281	-500	-67	34	60	78	1337	172	1358
10	838	565	560	828	377	1923	-33	----	----	----	----	----	----	----	----	-297	-262	-64	-55	22	18	12	73	170	281
11	660	557	418	145	567	327	17	-181	----	----	----	----	----	-862	-81	-77	-179	-16	1	12	36	157	5121	591
12	51	2670	1195	177	1341	27	522	----	----	----	-63	-40	-6	-27	-13	-6	-3	-3	4	18	124	114	2798	435
13	398	175	349	513	4606	472	7635	-97	----	----	----	----	-633	-392	-102	-271	-164	-191	-4	12	38	77	392	208
14	611	114	608	398	++++	311	249	-207	----	----	----	-393	-124	-214	-66	-42	-33	-15	13	26	67	74	++++	283
15	891	1824	567	230	147	204	111	-543	----	----	-682	----	-639	-211	-185	-103	-52	-19	4	16	19	944	124	50
16	58	165	12	253	79	168	24	87	-445	----	----	-276	-64	-42	-60	-6	7	10	19	36	47	111	78	29
17	295	250	225	521	301	273	4999	----	-713	----	----	-262	-93	-68	-74	-44	-16	-6	5	7	9	19	16	2304
18	++++	68	400	176	271	9180	790	-887	----	-249	-79	-34	-31	-26	-28	-33	-19	-6	11	451	63	129	161	84
19	3896	266	2923	457	968	870	945	----	-447	-951	-150	-29	-26	-19	-18	-19	-16	-4	8	16	275	++++	88	396
20	224	1062	1595	1575	992	2086	++++	-41	-457	----	-408	-26	-32	-29	-44	-22	-15	-2	15	136	2565	125	2651	1993
21	977	323	3416	860	97	282	405	-18	----	----	----	----	-328	-203	-114	-110	-65	-14	34	154	++++	194	689	847
22	++++	122	40	64	182	143	27	-5	-28	-596	----	----	----	-432	-221	-430	-88	-9	13	32	142	92	541	1279
23	608	106	295	1168	220	582	263	-50	-158	----	----	----	----	-485	-207	----	-146	-39	-12	-2	-2	-1	13	60
24	65	93	167	344	130	27	435	-20	-955	----	-688	-327	-362	-512	-346	-135	-106	-6	2	9	30	++++	283	652
25	339	197	765	++++	175	421	181	-20	-869	----	----	----	----	-750	-317	-225	-453	-59	20	49	9	198	28	1322
26	51	8569	1169	292	2677	1152	151	329	-437	----	-117	-31	-42	-34	-23	-25	-20	-4	7	27	28	13	15	34
27	193	617	235	1321	129	426	82	82	-38	-13	-19	-25	-30	-28	-29	-21	-18	-2	22	105	197	142	521	3742
28	371	625	932	1945	529	536	926	----	-64	----	----	----	-450	----	-535	-224	-251	-16	24	40	1149	1666	128	1253
29	428	33	1868	206	++++	64	35	10	-75	----	----	----	----	-750	-460	-157	-49	2	19	39	3482	448	8529	764
30	128	732	225	142	6350	6517	188	37	----	----	----	----	----	-421	-165	-93	-86	5	21	55	1325	++++	++++	4509
31	502	513	3917	408	++++	239	90	-20	-87	-551	----	-317	-95	-95	-80	-47	-21	0	33	25	1315	59	594	284

PERCENT VALID HOURS FOR AUG, 1996 732*100/ 744= 98.4%

THREE HIGHEST VALUES FOR AUG, 1996 XXXX(DD,HH) = ++++(31, 4) ++++(3, 2) ++++(30,22) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — SEPT, 1996

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	734	98	500	232	474	650	178	23	----	----	----	-269	-259	-442	-149	-52	-21	-1	20	57	6132	1908	376	79
2	87	1256	583	4601	479	238	31	-28	-392	----	-453	-158	-223	-145	-77	-54	-27	-1	22	72	308	508	196	138
3	197	1179	++++	527	420	623	335	98	----	----	-36	-24	-37	-33	-30	-19	-11	-1	12	19	18	23	109	2128
4	646	242	125	602	22	17	102	13	-13	-21	-25	-18	-14	-17	-13	-12	-5	-2	1	1	3	5	4	3
5	7	51	23	30	56	167	1043	-66	-30	-44	-60	-70	-57	-34	-33	-23	-19	-3	5	12	2573	++++	++++	562
6	138	212	22	70	++++	232	131	-106	-217	----	----	-496	----	-495	-166	-73	-47	-13	20	108	112	104	145	1370
7	921	407	511	516	160	1437	110	-17	----	----	----	----	-119	-144	-125	-53	-35	-8	15	35	322	250	247	997
8	381	5840	249	582	11	101	++++	-219	-60	----	----	----	----	-200	-323	-369	-86	-28	-2	50	363	765	203	131
9	55	498	3231	++++	1356	26	318	-15	----	----	----	----	-452	-409	-203	-142	-27	-18	11	28	111	59	116	844
10	29	87	84	3127	++++	6358	244	-21	-366	----	----	----	-717	-325	-217	-164	-71	-11	21	7	158	3020	1	0
11	28	146	21	251	21	35	57	-72	----	----	----	-879	-957	-260	-162	-91	-60	-6	8	19	344	100	26	186
12	377	603	409	104	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	138	23	8	2	-3	-5	-9	-10	-11	-10	-12	-12	-11	-6	-2	7	210	80	167	615	745
14	1330	4270	107	57	756	71	124	-38	-142	----	----	-278	-758	-928	-525	-550	-44	-2	13	17	216	++++	82	98
15	255	45	404	724	625	1017	209	-38	-40	----	-196	-196	-30	-12	-16	-12	-6	-2	2	5	9	16	20	5
16	6	7	6	15	71	7104	56	-5	-91	-135	-247	-225	-62	-55	-36	-32	-27	1	10	21	8	322	18	22
17	15	24	19	24	34	508	685	----	-742	-249	----	----	----	----	-909	-197	-52	2	29	56	160	373	99	93
18	736	654	125	49	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	401	2635	++++	4413	-43	-23	-119	-837	----	-324	-127	-62	-38	-19	10	26	43	2856	410	++++	++++
20	306	839	442	34	387	30	26	46	----	----	----	----	----	-330	-105	-60	-22	9	26	62	++++	99	341	1392
21	766	253	700	10	19	1612	8	-307	-306	-794	----	-208	-97	-71	-37	-18	-8	2	9	17	193	3442	128	343
22	152	71	328	390	2082	379	33	1	-34	----	----	----	-153	-60	-44	-25	-10	5	80	436	120	419	855	624
23	++++	965	1230	385	717	95	43	-11	----	-319	-498	-365	-147	-55	-29	-15	-7	3	20	69	631	145	279	263
24	++++	4874	417	711	100	1268	11	0	-38	-77	----	-578	-192	-56	-35	-21	-7	9	17	26	274	66	123	3142
25	122	110	247	402	1325	839	218	272	----	----	-244	-105	-80	-47	-25	-10	-6	5	20	32	36	243	3260	1421
26	343	2458	733	289	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
27	****	****	****	351	41	22	12	-6	-54	-84	-108	-98	-305	----	-233	----	-174	7	26	173	357	7085	++++	419
28	746	254	++++	950	153	62	82	1570	-26	----	-496	-229	-57	-111	-168	-144	-69	11	931	3584	753	403	350	1121
29	26	254	825	2754	157	43	168	-4	-10	-77	----	----	----	----	----	----	-369	38	68	395	++++	3880	6416	3179
30	1278	710	698	93	25	188	13	-9	----	----	----	----	----	-266	-240	-38	-7	12	28	247	1312	98	383	153

PERCENT VALID HOURS FOR SEPT, 1996 651*100/ 720= 90.4%

THREE HIGHEST VALUES FOR SEPT, 1996 XXXX(DD,HH) = ++++(29,20) ++++(6, 4) ++++(5,21) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — OCT, 1996

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	++++	171	1049	229	143	++++	264	97	-486	----	-306	----	----	-196	-41	-29	-22	3	86	9058	++++	267	175	111
2	131	3098	430	20	59	667	468	263	-664	-621	-378	----	-415	-254	----	----	-325	49	813	392	958	201	140	84
3	64	957	64	272	189	58	++++	3	-35	----	----	----	----	-352	-127	-37	-8	49	90	46	704	268	96	2214
4	++++	561	1517	1632	8831	156	17	10	-13	----	-475	-475	-210	-166	-91	-112	-55	15	17	164	98	2511	104	586
5	197	930	88	37	128	53	440	5	-15	-54	----	----	----	-763	-164	-479	-124	18	22	276	103	737	294	634
6	481	33	47	24	36	24	75	14	----	-233	----	----	----	----	----	----	-761	-274	132	334	2141	196	440	++++	++++
7	237	1234	++++	532	****	****	****	****	-24	----	----	----	-750	-484	-156	-70	-16	39	62	3396	594	2005	893	267
8	791	++++	211	118	134	258	375	2896	-126	-33	----	----	----	----	----	----	-646	44	43	181	1194	3043	649	1513	884
9	228	85	216	40	101	8586	155	11	-7	-139	----	----	----	-355	-93	-65	9	47	190	2318	850	4068	314	727
10	25	181	++++	127	1243	3263	54	1	-12	----	----	----	-64	-35	-24	-14	0	14	27	188	4734	88	261	598
11	925	1142	55	183	681	93	28	3	-16	-252	-730	----	-212	-112	-40	-11	1	13	128	1054	111	87	227	296
12	750	453	2376	67	20	402	121	561	-2	----	----	----	----	-34	-14	-10	2	22	75	277	399	453	808	1088
13	184	1744	249	++++	64	667	812	74	----	-657	-232	-6	-17	-20	-15	-8	2	22	93	++++	150	1429	1233	697
14	8389	2343	187	439	++++	4032	104	3496	-217	-106	----	----	----	----	----	-448	-64	108	40	3663	57	722	685	374
15	1622	804	2758	35	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	19	13	47	4681	++++	-36	-193	-503	-379	-456	----	-736	-777	-17	21	934	2405	129	828	2387	188
18	188	253	850	23	153	316	76	14	-10	-27	-79	----	-661	-20	-11	-6	1	12	25	39	73	325	++++	3532
19	265	29	14	9	8	12	11	0	-49	-37	-90	-133	-175	-72	-45	-21	-3	1	1	3	19	5	8	8
20	7	33	29	52	2332	18	22	-5	-78	-96	-89	-246	-423	-134	-63	-30	-3	6	10	17	27	22	35	25
21	26	24	31	15	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
22	****	****	****	5424	1858	3504	311	862	-2	-2	----	-177	-496	----	----	----	0	26	36	663	221	628	++++	++++
23	993	++++	++++	5867	281	264	107	-29	----	-377	----	-727	----	-287	-226	-100	50	69	388	++++	++++	430	458	168
24	254	76	263	197	3125	4100	574	326	----	----	----	-331	-35	-9	-10	-2	1	9	90	267	52	131	61	9
25	57	79	2	6	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	++++	1094	4587	16	5	-8	-24	-20	-28	-18	-16	-8	-6	-2	1	6	5	8	114	81	107
27	15	19	29	13	21	20	22	6	-21	-20	-21	-7	-6	-6	-6	-2	-2	-1	-2	0	-5	3	29	83
28	672	92	1385	14	18	-26	-52	-153	-330	-77	-17	-43	-51	-138	-963	-633	-52	-14	-5	8	60	28	99	88
29	29	1116	63	633	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	34	613	386	667	820	23	-542	-119	-113	-30	-32	-16	-11	-25	-83	-74	-94	-107	-76	-487	-89
31	-58	-23	-3	-1	-1	3	-20	-122	-557	-39	-200	-158	-281	-188	-26	-42	-304	6	196	113	55	959	609	263

PERCENT VALID HOURS FOR OCT, 1996 624*100/ 744= 83.9%

THREE HIGHEST VALUES FOR OCT, 1996 XXXX(DD,HH) = ++++(23, 1) ++++(1,20) ++++(4, 0) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — NOV, 1996

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	485	20	19	246	++++	44	226	430	132	52	-24	-36	-14	-10	-8	-2	17	26	16	18	23	29	18	26
2	61	++++	94	62	696	244	432	2297	48	7	7	9	6	-7	12	8	16	29	25	87	174	156	29	110
3	137	146	1547	210	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
4	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
5	****	****	****	165	1232	500	270	182	35	-770	-340	-62	-36	-28	-8	-1	5	21	11	13	23	40	56	22
6	32	28	12	17	17	29	81	14	0	-16	-47	-257	-198	-540	----	-9	21	19	97	3779	7436	++++	533	1620
7	2294	236	++++	2035	1493	321	178	1204	-93	125	-35	-127	-36	-630	-713	-129	74	440	427	++++	++++	++++	++++	143
8	2505	341	446	39	72	619	135	64	56	-823	-158	----	----	-794	-97	505	1196	++++	1817	4681	690	71	944	69
9	355	3305	241	127	1386	777	2478	253	216	367	----	-872	-315	-81	----	-5	73	1032	176	++++	181	++++	360	811
10	1042	60	315	50	75	61	386	9755	165	8	-247	-67	-130	----	-416	14	4044	1709	538	1963	96	516	59	1146
11	767	99	23	8819	755	53	162	39	128	-887	-87	-57	-49	-50	----	7227	501	97	++++	4019	2355	69	116	49
12	28	19	16	7	16	1362	10	22	11	2	-60	-9	----	-704	-301	411	290	52	365	605	3549	++++	355	4771
13	4348	113	37	5910	++++	5699	874	16	354	++++	-457	-4	----	-995	-15	103	319	122	291	++++	2914	290	900	241
14	++++	405	288	++++	357	230	606	116	27	52	-423	----	-897	21	-4	18	25	27	118	171	208	364	332	242
15	107	151	256	110	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	20	119	96	207	58	1253	271
18	117	271	64	197	272	3103	199	183	-187	-83	----	-135	----	-225	-114	-34	19	436	394	61	160	119	3139	787
19	21	23	9	153	203	47	64	26	26	-3	-16	----	-59	-830	-584	335	25	16	21	18	17	266	108	89
20	84	599	1520	436	41	658	2913	18	1053	-41	----	----	----	----	-634	4	58	124	281	288	347	++++	978	8706
21	1095	77	50	56	118	155	481	56	-39	-21	-121	----	-24	-265	----	-671	-279	-56	-49	12	16	53	51	73
22	13	57	7	5	4	4	5	7	1	-2	-2	-4	-4	-4	-2	1	8	24	25	90	321	820	87	632
23	729	79	16	93	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
24	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
25	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	21	22	50	38	35	14	-17	-9	-11	-12	-12	-6	2	9	16	14	21	31	31	20	23
27	32	28	18	44	29	16	38	22	14	-8	-730	-189	-46	-126	-6	6	25	37	78	684	245	461	3109	++++
28	304	75	135	1979	207	86	41	69	-10	-6	----	----	-16	2	2	2	684	50	261	90	49	29	27	54
29	34	30	22	70	217	357	51	21	17	-5	-5	-8	-13	-13	-2	1	14	27	31	15	14	24	25	18
30	114	107	1777	83	1750	222	1136	177	131	21	-194	-814	-144	-226	-683	39	1084	252	828	1334	411	318	445	3677

PERCENT VALID HOURS FOR NOV, 1996 541*100/ 720= 75.1%

THREE HIGHEST VALUES FOR NOV, 1996 XXXX(DD,HH) = ++++(9,21) ++++(27,23) ++++(7, 2) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY RICHARDSON NUMBER 3, 2.0-16.0 M LEVELS — DEC, 1996

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	13	683	552	140	1345	++++	330	118	304	-672	-578	----	-757	-195	-55	7	22	100	153	596	84	21	27	241
2	319	348	648	152	6353	247	277	1621	78	-103	-266	-36	-50	-112	-16	39	101	449	395	232	222	150	++++	2162
3	273	10	13	779	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
4	****	****	****	325	318	306	1027	209	83	----	-14	----	----	-7	-10	4	177	91	285	489	3018	679	113	625
5	242	87	398	485	112	300	353	64	188	-42	-63	-252	----	----	-3	108	147	468	224	128	92	37	32	606
6	46	22	74	137	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
7	****	****	****	3522	248	4523	1740	262	29	-13	-31	----	-185	-173	-68	-14	12	32	146	207	47	612	9305	457
8	1187	313	69	++++	265	173	6875	592	3	-15	-13	-11	----	-27	----	20	++++	++++	37	144	274	213	189	246
9	100	47	913	1103	254	54	1131	246	303	-25	-20	-146	16	27	14	9	15	6	25	34	7	36	38	4
10	4	6	17	11	9	10	8	12	12	3	1	1	0	2	1	2	3	5	5	4	6	7	13	14
11	9	14	12	11	11	13	16	11	23	12	104	-30	-163	-1	1	25	65	72	176	153	15	203	255	336
12	191	1963	2251	94	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
15	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
18	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	151	123	195	++++	2416	----	-309	-301	----	-259	-238	23	56	24	931	159	1212	253	1399	626	171
21	4541	95	68	422	2084	302	441	++++	584	-116	125	62	5	3	0	4	4	3	5	6	6	2	2	1
22	2	3	3	2	1	1	1	1	5	0	-1	-2	-2	-2	-1	1	5	4	5	11	9	11	138	73
23	120	414	++++	273	189	192	++++	423	6	101	-510	-81	----	-593	-408	-107	62	86	149	236	456	1200	305	122
24	460	617	186	++++	174	444	1317	392	219	186	-22	-125	-4	-14	-334	1515	246	74	29	8138	++++	++++	3317	1386
25	568	580	74	22	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	249	128	106	130	263	300	-186	----	-13	-14	-3	-9	77	12	114	224	332	1392	166	556	391
27	597	180	446	380	101	511	844	67	70	96	50	-91	36	85	24	10	14	23	113	71	160	72	1384	253
28	832	355	86	601	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
29	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	949	1270	102	44	37	23	4	----	-3	-38	-75	-27	13	85	154	132	93	104	193	138	77
31	23	329	223	201	106	374	95	179	121	-260	-27	----	----	-229	-777	----	27	48	104	160	95	214	329	157

PERCENT VALID HOURS FOR DEC, 1996 437*100/ 744= 58.7%

THREE HIGHEST VALUES FOR DEC, 1996 XXXX(DD,HH) = ++++(2,22) ++++(20, 6) ++++(8,16) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 JAN, 1996

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	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
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	<10	<10	<10	<10	<10	<10	52	25	12	12	<10	<10	<10	<10	<10	<10	<10	17	39	10	<10	<10	<10	<10

PERCENT VALID HOURS FOR JAN, 1996 24*100/ 744= 3.2%

THREE HIGHEST VALUES FOR JAN, 1996 XXXX(DD,HH) = 52(31, 6) 39(31,18) 25(31, 7) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 FEB, 1996

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	<10	<10	<10	<10	<10	<10	<10	42	-366	563	112	103	29	12	25	12	<10	<10
2	<10	<10	<10	<10	12	<10	<10	<10	<10	<10	85	<10	109	-52	-491	538	168	31	64	<10	<10	<10	<10	<10
3	<10	24	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	14	16	<10	<10	<10	<10
4	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	15	<10	<10	<10	11
5	<10	<10	<10	<10	13	13	<10	14	<10	18	<10	<10	11	331	<10	<10	<10	<10	19	<10	<10	<10	<10	<10
6	<10	<10	<10	<10	<10	<10	18	<10	<10	<10	<10	<10	<10	<10	<10	30	22	<10	<10	<10	<10	<10	<10	<10
7	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	54	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8	<10	<10	<10	<10	11	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	68	30	<10	17	<10	<10	<10	<10	<10
9	<10	<10	<10	49	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	19	23	<10	<10	<10	26	<10	<10	<10	<10
11	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-23	<10	<10	<10	112	132	132	37	<10	<10	<10	<10	15	<10
12	<10	<10	11	<10	11	<10	21	<10	<10	<10	<10	<10	643	463	242	124	122	<10	<10	<10	<10	12	<10	<10
13	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	21	164	-15	<10	<10	<10	28	<10	<10	<10	<10	<10
14	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-81	96	42	18	18	<10	<10	<10	<10	<10
15	<10	<10	<10	<10	<10	<10	<10	<10	-1	<10	<10	<10	<10	<10	-149	356	86	28	<10	<10	<10	<10	<10	<10
16	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-57	-119	-241	884	61	24	11	<10	<10	<10	<10	<10
17	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	832	----	429	75	<10	14	<10	<10	<10	<10	<10
18	<10	26	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	2352	<10	-372	1550	260	80	<10	<10	<10	<10	<10	<10
19	<10	<10	43	<10	<10	<10	<10	<10	<10	<10	174	1619	5876	1998	1655	1105	1222	908	930	736	743	846	756	875
20	813	986	941	899	619	759	789	977	1328	1076	910	861	876	391	516	502	119	165	125	105	90	233	20	<10
21	150	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
22	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
23	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
24	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
25	****	****	****	****	****	****	****	****	****	2429	----	----	----	----	----	190	14	142	203	86	103	46	53	29
26	107	69	73	41	72	<10	<10	<10	<10	31	-987	-324	-622	-460	-399	----	5112	305	147	<10	<10	<10	<10	<10
27	<10	<10	<10	<10	<10	<10	<10	34	<10	<10	<10	-11	-61	-41	-61	-728	294	234	117	18	13	22	<10	****
28	<10	****	639	****	<10	****	145	<10	<10	86	-12	56	<10	-18	-324	<10	<10	<10	<10	<10	<10	<10	<10	<10
29	13	<10	<10	25	<10	<10	<10	<10	<10	<10	<10	<10	<10	-44	<10	103	<10	<10	<10	<10	<10	<10	17	<10

PERCENT VALID HOURS FOR FEB, 1996 588*100/ 696= 84.5%

THREE HIGHEST VALUES FOR FEB, 1996 XXXX(DD,HH) = 5876(19,12) 5112(26,16) 2429(25, 9) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 MAR, 1996

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	<10	<10	<10	36	<10	-39	14	-176	-653	859	213	106	22	31	<10	10	<10	<10
2	<10	<10	20	<10	<10	<10	<10	<10	<10	<10	<10	-28	-28	<10	-13	-30	53	23	30	<10	<10	<10	<10	<10
3	<10	<10	<10	<10	<10	<10	<10	<10	<10	46	<10	<10	<10	46	140	<10	<10	<10	<10	13	12	<10	<10	<10
4	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
5	****	****	****	****	****	****	****	****	****	----	----	----	----	----	----	----	2217	661	319	609	492	325	566	283
6	35	15	56	<10	<10	<10	<10	10	13	----	-297	-70	-45	-113	-40	-413	185	37	20	<10	<10	<10	<10	<10
7	<10	<10	<10	<10	<10	16	<10	<10	<10	<10	<10	62	58	16	-23	-35	44	<10	<10	<10	<10	<10	<10	12
8	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	26	392	-42	----	-612	696	79	32	<10	<10	<10	<10	<10	<10
9	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	60	121	63	<10	<10	<10	<10	31	<10	<10	<10	<10
10	<10	<10	<10	<10	<10	<10	<10	-13	<10	<10	31	-495	-679	-640	-777	----	465	86	15	<10	<10	<10	<10	<10
11	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-171	-243	-247	-290	-792	3011	92	113	18	<10	<10	<10	<10
12	<10	<10	<10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	<10	<10	<10	<10	<10	<10	<10	-100	-383	----	-25	-19	-91	93	<10	<10	<10	48	21	<10	<10
15	<10	60	<10	24	<10	<10	<10	<10	<10	<10	<10	-22	-32	-76	-50	-229	41	<10	21	31	20	<10	<10	<10
16	<10	<10	<10	<10	<10	<10	12	<10	18	87	----	----	-415	-388	-257	-625	87	52	47	64	<10	<10	<10	<10
17	47	49	<10	<10	<10	10	<10	<10	12	<10	218	-63	-57	-60	-137	-152	75	77	21	18	<10	<10	19	24
18	40	38	<10	<10	<10	<10	<10	<10	<10	<10	-32	-32	-10	-13	-8	-48	<10	<10	<10	13	16	<10	<10	15
19	<10	<10	<10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
21	****	****	****	<10	<10	<10	<10	<10	<10	<10	<10	<10	-62	-179	-269	-670	1056	144	19	23	<10	<10	<10	<10
22	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-629	-528	-599	-605	-739	----	2564	959	521	390	70	203	191	183
23	153	108	119	30	23	39	32	148	-272	-106	-117	-238	-469	-378	-266	-273	----	622	189	98	47	19	48	28
24	89	74	<10	<10	25	144	73	-379	<10	47	28	-11	-99	-129	-354	-703	----	292	172	44	47	<10	<10	<10
25	<10	<10	<10	<10	<10	12	<10	<10	-11	373	-53	-12	-11	-38	-73	-123	-145	483	1550	2985	614	215	251	272
26	153	194	235	209	157	256	148	489	-613	-152	-71	-24	-8	-7	-12	-21	-195	60	54	33	<10	<10	<10	<10
27	<10	<10	<10	<10	<10	<10	<10	-48	33	106	<10	<10	-43	-57	-211	-376	6182	331	38	<10	<10	<10	<10	<10
28	<10	<10	<10	<10	<10	<10	<10	53	212	----	----	-962	-814	----	----	----	8698	1891	1207	869	1513	358	302	165
29	83	<10	<10	<10	<10	<10	101	40	-104	-179	-68	-11	-13	-14	-13	-19	-489	309	38	<10	<10	<10	<10	<10
30	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	549	-16	-22	-63	-99	-178	----	350	40	<10	<10	<10	<10	15
31	<10	<10	<10	<10	<10	<10	<10	-6	-2	<10	<10	-28	-19	-27	-160	-549	3466	354	97	45	<10	<10	<10	<10

PERCENT VALID HOURS FOR MAR, 1996 615*100/ 744= 82.7%

THREE HIGHEST VALUES FOR MAR, 1996 XXXX(DD,HH) = 8698(28,16) 6182(27,16) 3466(31,16) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 APR, 1996

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	<10	<10	10	-318	-506	-722	-897	-736	----	----	2963	1113	1207	853	281	484	538	442
2	316	192	204	116	44	<10	<10	<10	-372	99	-47	-96	-62	-43	-38	-31	-249	199	62	28	<10	<10	<10	<10
3	<10	<10	<10	<10	<10	<10	<10	<10	29	-25	-5	-10	-9	-30	-67	-113	-367	146	79	51	<10	<10	<10	<10
4	<10	20	59	<10	<10	52	48	603	----	-300	-210	-172	-502	-393	-542	-460	----	219	65	34	67	82	129	110
5	107	125	200	109	77	95	157	765	----	-872	-346	-168	-129	-69	-78	-157	1501	97	<10	<10	<10	<10	<10	22
6	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-15	-16	-18	-9	-41	72	22	<10	<10	<10	<10	<10	<10
7	<10	<10	<10	<10	<10	<10	<10	27	<10	<10	-6	-7	-10	-11	-15	-37	-618	182	40	11	<10	<10	<10	<10
8	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-43	-128	-164	-289	-524	2140	336	67	<10	<10	<10	<10	<10
9	<10	<10	<10	<10	13	25	<10	<10	<10	<10	-174	-498	-546	-815	----	----	----	331	162	91	14	17	26	<10
10	11	<10	<10	<10	10	<10	<10	<10	<10	10	-29	-53	-138	-192	-388	-630	----	604	115	48	67	34	64	<10
11	<10	<10	23	<10	<10	<10	43	905	-137	-123	-64	-34	-21	-23	-16	-60	-365	322	80	18	<10	18	<10	<10
12	<10	<10	<10	<10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	<10	<10	<10	<10	<10	-459	-79	-43	-14	-13	-26	-19	-22	-872	202	61	28	<10	<10	106	18
14	82	72	12	<10	<10	<10	19	10	46	-90	-107	-67	-44	-18	-13	-16	-54	65	<10	<10	16	<10	13	<10
15	<10	<10	<10	<10	<10	<10	<10	-18	-270	<10	<10	-13	-10	-46	-67	-431	----	467	101	<10	<10	<10	<10	139
16	146	324	121	54	78	98	350	506	819	1218	5360	----	-820	-535	-787	----	----	1954	664	459	666	745	717	378
17	224	201	145	120	126	205	551	6328	-439	-300	-279	-209	-288	-287	-344	-719	4015	1498	397	538	609	708	634	908
18	917	879	1109	1292	782	1053	1631	----	----	-597	-703	-172	-133	-125	-119	-136	-309	641	157	102	78	96	45	36
19	13	<10	<10	<10	<10	<10	17	76	-128	-9	-9	-4	-11	-9	-36	-305	----	145	40	22	36	<10	<10	25
20	<10	<10	<10	<10	<10	<10	82	312	-183	-95	-82	-50	-13	-20	-40	509	23	31	<10	<10	82	<10	<10	<10
21	<10	<10	<10	15	<10	<10	<10	100	-5	-6	-7	-13	-21	-50	-80	-66	-134	13	<10	28	<10	<10	<10	<10
22	<10	<10	<10	<10	16	<10	<10	<10	<10	-8	-16	-26	-28	-51	-26	-60	-175	166	45	11	<10	<10	<10	<10
23	<10	<10	<10	<10	<10	50	<10	-7	<10	0	<10	-10	-36	-80	-166	-116	467	52	<10	<10	<10	<10	<10	<10
24	<10	<10	<10	26	<10	20	<10	205	-92	<10	-122	-205	-295	-305	-574	----	1564	414	126	87	171	118	<10	<10
25	<10	<10	13	<10	25	<10	79	710	-148	-131	-128	-79	-54	-49	-77	-276	-910	149	48	<10	<10	<10	<10	<10
26	14	<10	<10	16	<10	<10	<10	<10	<10	-8	-28	-8	-17	-129	----	----	2699	315	68	<10	<10	<10	<10	<10
27	27	<10	11	<10	<10	<10	11	25	-37	-93	-42	-26	-28	-62	-169	-384	----	361	165	56	74	277	39	112
28	135	267	332	149	104	245	659	5691	----	-481	-434	-365	-286	-270	-267	-421	----	293	133	63	107	89	114	103
29	38	<10	<10	<10	<10	<10	16	29	-63	-36	-4	-11	-5	-8	-13	-7	-119	<10	28	39	<10	<10	<10	<10
30	<10	<10	<10	<10	<10	<10	28	<10	-35	-33	-17	-12	-73	-16	-42	-187	----	368	113	40	72	76	82	<10

PERCENT VALID HOURS FOR APR, 1996 697*100/ 720= 96.8%

THREE HIGHEST VALUES FOR APR, 1996 XXXX(DD,HH) = 6328(17, 7) 5691(28, 7) 5360(16,10) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 — MAY, 1996

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	<10	<10	<10	-22	-15	-39	-44	-54	-83	-88	-411	237	33	14	25	<10	<10	<10
2	<10	<10	<10	13	<10	<10	-14	<10	<10	-7	-6	-97	-143	-189	-295	-393	----	323	68	14	24	<10	<10	<10
3	<10	<10	<10	<10	<10	<10	<10	<10	-44	-4	-14	-57	-123	-100	-219	-266	-824	334	65	<10	<10	<10	<10	<10
4	<10	<10	<10	<10	<10	<10	<10	<10	-9	-17	-11	-13	-13	-68	-123	-248	----	231	73	42	<10	<10	<10	<10
5	<10	<10	<10	<10	<10	11	<10	<10	<10	-19	-20	-41	-103	-149	-191	-235	-587	311	44	10	<10	<10	<10	<10
6	<10	<10	<10	<10	<10	<10	<10	-2	<10	<10	-7	-11	-108	-164	-281	-443	----	518	112	<10	<10	<10	<10	<10
7	<10	<10	<10	<10	<10	<10	<10	<10	-331	-171	-122	-104	-82	-107	-157	-244	-739	270	79	<10	<10	10	<10	<10
8	<10	<10	14	29	<10	<10	<10	<10	-46	-28	-48	-43	-73	-124	-136	-308	-773	386	205	87	77	24	104	97
9	261	113	<10	40	97	49	263	-617	-15	-9	-15	-41	-17	-8	-56	-35	-15	1155	240	58	<10	<10	<10	<10
10	<10	<10	<10	<10	<10	<10	72	<10	<10	-12	-17	-20	-19	-14	-22	-45	-137	389	46	33	<10	<10	<10	<10
11	<10	<10	<10	<10	<10	<10	<10	<10	<10	-5	-2	-27	-16	-19	-17	-131	4678	101	28	14	<10	<10	<10	<10
12	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-18	-30	-46	-50	-122	-979	452	121	28	36	<10	<10	<10
13	<10	<10	<10	<10	<10	<10	<10	<10	-169	-81	-127	-169	-158	-185	-316	-507	----	224	101	30	<10	<10	85	37
14	31	<10	28	<10	<10	<10	<10	52	-259	-105	-63	-84	-76	-127	-187	-434	----	395	483	278	384	240	94	74
15	<10	55	16	<10	<10	<10	<10	3631	-219	-360	-210	-274	-562	-968	----	----	----	1688	1307	815	755	692	524	733
16	599	607	706	496	542	436	1477	----	----	----	----	-844	-594	----	----	----	----	2519	885	514	212	35	211	150
17	30	12	<10	<10	<10	<10	<10	-153	-240	-115	-46	-11	-121	-357	-520	-899	----	1034	273	253	132	113	73	35
18	47	42	34	41	94	197	693	----	----	-760	-638	-617	-665	-633	-543	----	++++	1066	455	356	237	12	54	30
19	<10	<10	<10	<10	<10	<10	<10	33	-131	-61	-71	-70	-109	-115	-117	-172	-221	2710	96	37	72	31	<10	<10
20	<10	26	<10	10	77	170	437	-992	-142	-31	-15	-11	-11	-15	-14	-9	-10	----	147	49	20	<10	<10	<10
21	<10	14	<10	<10	<10	12	<10	<10	<10	-8	-28	-61	-177	-372	-644	----	3120	307	62	<10	<10	78	190	60
22	199	159	68	<10	<10	<10	<10	----	-265	-103	-72	-103	-70	-138	-172	-295	----	448	243	82	104	133	119	174
23	169	87	69	<10	104	<10	69	-432	-92	-24	-23	-24	-28	-30	-57	-707	----	1554	277	447	215	433	616	467
24	450	324	350	636	725	537	278	391	912	-737	----	1958	----	-478	-335	-15	-105	257	50	29	37	39	<10	<10
25	<10	<10	<10	<10	<10	50	1127	----	-168	-72	-58	-125	-30	-11	-68	-118	1123	119	<10	14	<10	<10	<10	<10
26	<10	<10	<10	<10	<10	<10	<10	<10	-77	-6	-9	-19	-16	-31	-45	-115	-166	1171	84	20	<10	38	30	12
27	<10	<10	11	27	<10	<10	<10	<10	-114	----	-604	-387	-196	-347	-245	-228	----	1953	686	311	23	<10	<10	<10
28	<10	<10	<10	<10	<10	<10	<10	<10	-29	-5	-4	-19	-5	-59	-35	-75	-891	220	82	<10	<10	<10	<10	<10
29	<10	<10	<10	<10	<10	<10	<10	51	-850	-661	-607	-915	-626	-315	-353	-441	-855	762	185	52	14	<10	<10	<10
30	<10	<10	<10	<10	<10	26	<10	-911	-9	-9	-15	-5	-10	-111	-107	-91	-102	1288	96	31	22	<10	<10	<10
31	12	<10	<10	48	<10	<10	<10	<10	-5	-6	-7	-14	-34	-47	-78	-108	-180	1609	104	29	<10	<10	<10	<10

PERCENT VALID HOURS FOR MAY, 1996 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR MAY, 1996 XXXX(DD,HH) = ++++(18,16) 4678(11,16) 3631(15, 7) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 — JUNE, 1996

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	<10	-7	20	-8	-9	-15	-11	-20	-17	-11	-47	<10	<10	<10	<10	<10	<10	<10
2	<10	<10	<10	<10	<10	<10	<10	<10	<10	-6	-28	-45	-14	-14	-20	-9	-19	<10	<10	<10	<10	<10	<10	<10
3	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-7	-11	-47	-14	-29	-59	-65	337	73	34	<10	<10	<10	<10
4	<10	<10	<10	<10	<10	<10	<10	<10	-687	12	-10	-82	-110	-151	-158	-325	-425	466	92	18	10	<10	<10	<10
5	<10	<10	<10	<10	<10	<10	<10	-9	-7	-2	-13	-60	-130	-154	-143	-130	-234	293	51	19	17	<10	<10	<10
6	<10	<10	23	<10	<10	<10	<10	<10	<10	-16	-9	-13	-24	-24	-25	-26	-58	86	<10	23	12	<10	<10	<10
7	<10	<10	<10	<10	<10	<10	<10	<10	-12	-3	-13	-55	-53	-139	-180	-446	-979	1433	286	47	<10	<10	22	52
8	<10	<10	<10	<10	<10	<10	<10	<10	-3	-27	-31	-195	-400	-238	-240	-216	-325	471	89	<10	<10	19	13	<10
9	<10	<10	<10	<10	<10	<10	-48	-139	<10	-4	-52	-56	-53	-27	-39	-52	-197	190	56	30	95	<10	<10	<10
10	<10	<10	17	<10	<10	<10	<10	<10	-65	-15	-34	-71	-79	-107	-139	-135	-381	1477	134	25	<10	22	<10	<10
11	<10	23	<10	<10	<10	<10	<10	<10	-35	-38	-32	-39	-68	-133	-182	-320	-449	2517	241	32	<10	<10	<10	<10
12	<10	<10	<10	<10	<10	<10	<10	<10	<10	-8	-19	-47	-95	-109	-287	-638	----	2664	367	66	<10	<10	<10	<10
13	<10	<10	<10	<10	<10	<10	<10	-128	<10	-5	-15	-20	-27	-40	-99	-401	----	2495	358	47	<10	<10	15	<10
14	<10	<10	<10	<10	<10	<10	<10	<10	107	-3	-15	-9	-53	-76	-91	-213	-565	2772	206	35	<10	<10	<10	<10
15	<10	<10	<10	<10	<10	<10	<10	<10	<10	36	-23	-142	-125	-218	-344	-400	----	1970	315	84	<10	14	<10	<10
16	<10	<10	<10	<10	<10	<10	<10	<10	<10	-13	-84	-562	-452	-461	-682	-853	----	1614	244	33	<10	<10	<10	<10
17	<10	<10	<10	<10	<10	<10	<10	241	-295	-728	-511	-397	-266	-264	-301	-419	-994	1108	286	77	28	28	<10	<10
18	17	<10	<10	<10	<10	<10	<10	<10	<10	-17	-35	-45	-93	-155	-338	-340	-802	1304	180	<10	<10	<10	<10	<10
19	<10	<10	<10	<10	<10	<10	<10	636	-47	-18	-14	-49	-255	-432	-374	-438	-542	2014	519	134	19	107	292	147
20	190	123	116	12	<10	<10	111	1525	2386	-863	-548	-380	-718	-439	-509	-475	----	2974	332	62	55	<10	27	94
21	81	23	56	<10	10	<10	13	-65	-349	-884	-831	-506	-256	-372	-433	-518	----	3265	540	178	88	126	119	44
22	<10	<10	<10	<10	<10	<10	<10	<10	-5	-3	-7	-16	-21	-36	-26	-86	-250	----	310	45	17	<10	<10	<10
23	<10	<10	<10	<10	<10	<10	<10	57	<10	-18	-18	-73	-72	-104	-223	-404	----	3528	379	113	101	<10	<10	10
24	<10	23	33	<10	<10	<10	<10	----	-479	-499	-661	-566	-445	-489	-608	-999	----	3916	736	251	186	233	432	25
25	<10	<10	<10	62	62	79	79	-438	-533	-390	-408	-497	-344	-511	----	----	----	----	411	15	71	71	141	35
26	<10	47	41	115	81	26	232	55	49	53	45	48	512	5202	----	5322	++++	2041	362	94	112	91	59	<10
27	<10	<10	<10	<10	<10	33	<10	<10	<10	-7	-8	-46	-64	-59	-86	-165	-290	----	198	35	32	<10	<10	<10
28	<10	<10	10	<10	18	<10	<10	<10	-47	-7	-20	-21	-14	-3	-12	-23	-16	-98	<10	15	<10	<10	<10	<10
29	<10	<10	<10	<10	<10	<10	<10	<10	-6	<10	-18	-14	-8	-16	-16	-23	-54	<10	<10	<10	<10	<10	<10	<10
30	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-20	-23	-9	-59	-96	-281	434	81	20	<10	<10	<10	<10

PERCENT VALID HOURS FOR JUNE, 1996 720*100/ 720=100.0%

THREE HIGHEST VALUES FOR JUNE, 1996 XXXX(DD,HH) = ++++(26,16) 5322(26,15) 5202(26,13) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 — JULY, 1996

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	<10	<10	143	<10	-21	-39	-71	-78	-82	-120	-225	1139	108	<10	<10	<10	<10	<10
2	<10	<10	<10	<10	18	<10	<10	-4	<10	<10	-14	-98	-77	-63	-141	-207	-463	----	221	86	16	<10	<10	<10
3	12	13	<10	18	19	<10	<10	97	-137	-424	-318	-438	-365	-608	-445	-515	-801	4343	384	130	71	21	<10	26
4	<10	<10	13	<10	<10	26	<10	<10	-14	-29	-117	-264	-242	-267	-292	-260	-651	++++	242	30	<10	15	<10	<10
5	14	17	<10	<10	<10	<10	-8	<10	-436	-25	-18	-35	-53	-106	-119	-226	-507	++++	246	59	<10	<10	11	<10
6	<10	<10	<10	<10	<10	<10	<10	<10	<10	-10	-13	-42	-71	-84	-66	-112	-519	1958	156	29	16	<10	<10	<10
7	<10	<10	<10	<10	<10	<10	<10	<10	<10	0	-75	-115	-151	-122	-167	-173	-337	5323	292	23	<10	<10	<10	11
8	<10	<10	<10	<10	<10	<10	<10	<10	<10	-13	-71	-124	-170	-252	-313	-381	-914	7785	413	79	<10	<10	<10	36
9	242	107	74	44	40	<10	<10	<10	26	-48	-36	-89	-122	-118	-132	-189	-298	----	267	45	<10	<10	<10	<10
10	<10	<10	<10	43	22	<10	<10	<10	12	-1	-11	-17	-141	-27	-74	-160	-446	----	177	<10	<10	<10	<10	13
11	23	<10	<10	<10	<10	<10	<10	<10	<10	-13	-59	-22	-10	-33	-356	----	-283	----	293	142	301	152	135	<10
12	<10	17	<10	<10	<10	28	46	<10	-8	-4	-8	-9	-16	-21	-172	1147	----	1672	74	99	<10	<10	<10	<10
13	13	<10	<10	<10	<10	<10	<10	<10	-1	-1	-10	-11	-7	-6	-75	-117	-91	-180	43	180	83	<10	<10	<10
14	<10	<10	17	<10	<10	<10	<10	<10	-3	-5	-11	-39	-102	-454	-467	----	-742	380	<10	17	37	154	155	47
15	<10	<10	<10	<10	<10	<10	<10	<10	<10	-7	-24	-79	-166	-169	-208	-196	-496	----	513	96	13	<10	<10	<10
16	<10	<10	12	18	20	<10	<10	29	-911	-854	-627	-466	-461	-453	-543	-750	----	3257	649	208	107	<10	<10	14
17	94	61	21	<10	<10	19	<10	-327	-151	-195	-262	-448	-288	-349	-446	-700	----	2173	258	45	<10	16	<10	<10
18	<10	24	<10	<10	<10	<10	<10	<10	-89	-41	-498	-465	-321	-297	-334	-538	----	1548	299	84	<10	<10	<10	<10
19	<10	<10	<10	<10	<10	<10	<10	<10	<10	-17	-190	-209	-238	-180	-179	-219	-409	1315	119	25	<10	<10	<10	<10
20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-3	-28	-26	-61	-98	-125	-294	753	113	17	14	<10	<10	<10
21	<10	<10	<10	<10	<10	<10	<10	<10	<10	-21	-9	-27	-61	-72	-80	-129	-443	485	34	18	<10	<10	<10	<10
22	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-8	-15	-19	-61	-85	-110	-275	1239	73	26	22	<10	<10	<10
23	<10	<10	14	<10	<10	<10	<10	<10	98	504	-10	-6	-35	-87	-110	-118	----	1403	49	20	<10	17	<10	<10
24	<10	13	<10	<10	<10	<10	<10	<10	<10	<10	-10	-48	-109	-127	-171	-166	-435	850	114	23	18	<10	<10	<10
25	<10	24	<10	<10	<10	10	<10	<10	<10	-69	-96	-197	-154	-141	-141	-142	-364	346	74	13	17	<10	<10	<10
26	<10	<10	<10	<10	<10	<10	12	133	-162	-45	-59	-36	-20	-77	-108	-232	-595	1620	192	51	<10	1036	3507	567
27	<10	33	65	24	<10	21	<10	<10	25	64	-142	-102	-152	-49	-31	-209	-254	4022	347	157	84	75	13	<10
28	<10	<10	<10	<10	<10	10	<10	13	<10	-96	-211	-159	-105	-105	-105	-108	-46	77	19	56	25	123	298	116
29	11	15	<10	<10	<10	<10	<10	<10	<10	-5	-6	-7	-14	-8	-107	-372	-457	----	13	<10	<10	<10	<10	16
30	21	<10	<10	<10	<10	<10	<10	<10	-46	-8	-18	-19	-55	-98	-51	-99	-171	489	48	12	<10	<10	<10	<10
31	<10	<10	<10	<10	<10	<10	<10	<10	<10	-4	-15	-54	-117	-110	-97	-106	-190	100	78	21	<10	15	18	<10

PERCENT VALID HOURS FOR JULY, 1996 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR JULY, 1996 XXXX(DD,HH) = ++++(4,17) ++++(5,17) 7785(8,17) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 AUG, 1996

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	<10	<10	-17	-101	-161	-332	-343	-340	-450	-470	----	774	176	25	20	25	<10	<10
2	34	34	<10	<10	13	<10	<10	<10	-811	-928	-890	-623	-582	<10	-586	-870	----	953	345	160	158	72	25	19
3	<10	31	<10	<10	<10	<10	<10	<10	----	-742	----	----	----	----	----	----	----	++++	9107	2038	602	2556	3368	844
4	532	224	66	59	108	44	409	38	----	-805	-952	----	-818	-681	-955	----	----	7889	1148	154	42	<10	36	20
5	75	<10	29	<10	30	59	<10	<10	779	-739	-576	-388	-473	-445	-531	-802	----	1488	388	120	100	80	87	97
6	13	<10	<10	<10	17	<10	<10	<10	37	-9	-13	-25	-15	-14	-15	-12	-122	269	113	29	<10	<10	<10	<10
7	<10	<10	43	<10	****	****	****	****	****	****	****	****	****	****	****	****	-112	<10	<10	<10	12	<10	<10	<10
8	<10	<10	<10	<10	<10	<10	<10	-31	-48	<10	<10	-10	-12	-26	-42	-46	-45	37	<10	23	<10	<10	<10	<10
9	<10	<10	<10	<10	<10	<10	<10	-55	<10	<10	-12	-21	-5	-45	-11	-69	129	47	25	29	<10	<10	<10	<10
10	<10	<10	<10	12	<10	<10	<10	<10	<10	-121	-7	-10	-14	-21	-21	-133	-593	129	40	43	71	<10	<10	<10
11	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-43	-10	-35	-137	-184	-202	62	237	38	<10	<10	<10	<10
12	<10	<10	<10	<10	<10	<10	<10	<10	-45	<10	-253	-419	854	----	-509	4237	2246	464	109	37	<10	38	<10	<10
13	<10	<10	<10	<10	<10	<10	<10	<10	<10	-14	<10	-8	-34	-49	-106	-61	-77	-231	278	40	31	<10	<10	12
14	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-21	-34	-113	-71	-184	-384	----	297	65	20	31	<10	<10	<10
15	<10	<10	<10	<10	<10	23	<10	<10	11	-4	-5	-55	-37	-61	-62	-127	-490	387	168	48	23	<10	32	13
16	25	14	80	<10	44	<10	<10	<10	<10	-12	-27	-50	-135	-153	-82	2974	101	147	24	32	<10	<10	13	39
17	<10	<10	<10	11	<10	<10	<10	<10	23	-13	-42	-51	-93	-203	-238	-385	----	594	207	112	120	79	66	<10
18	<10	<10	<10	<10	<10	<10	<10	<10	<10	-96	-147	-342	-349	-426	-467	-553	----	458	77	<10	<10	<10	<10	<10
19	<10	<10	<10	<10	<10	<10	<10	<10	<10	-91	-146	-430	-432	-597	-720	-823	----	576	131	48	<10	<10	16	<10
20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-100	-437	-411	-415	-358	-794	7966	329	69	<10	<10	<10	<10	<10
21	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-10	-28	-59	-78	-113	-370	131	20	<10	<10	<10	<10	<10
22	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-12	-18	-28	-37	-65	1366	302	60	16	<10	<10	<10	<10
23	<10	<10	<10	<10	<10	10	<10	<10	<10	-13	<10	-29	-29	-31	-59	-69	-190	169	151	156	39	33	41	18
24	36	<10	<10	<10	25	<10	<10	<10	58	-11	-29	-34	-27	-52	-50	-145	151	196	284	115	14	<10	18	<10
25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-11	-12	-38	-44	-60	-97	144	40	<10	39	<10	<10	<10
26	12	<10	21	<10	<10	<10	<10	<10	<10	<10	-192	-613	-357	-399	-621	-675	----	509	147	<10	43	97	65	<10
27	<10	<10	<10	<10	<10	<10	<10	<10	2485	----	-852	-557	-405	-407	-488	-767	4905	255	25	<10	<10	<10	<10	<10
28	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-239	-25	-43	-55	-826	37	28	29	<10	<10	<10	<10
29	<10	<10	<10	<10	<10	<10	<10	<10	<10	21	<10	<10	-65	-23	-41	-84	5144	97	34	21	<10	<10	<10	<10
30	<10	<10	<10	<10	<10	11	<10	<10	<10	113	<10	-13	-12	-23	-90	-198	2301	78	31	15	<10	<10	<10	<10
31	<10	<10	10	<10	<10	<10	<10	<10	<10	<10	-28	-65	-143	-162	-170	-320	2284	152	21	37	<10	11	<10	<10

PERCENT VALID HOURS FOR AUG, 1996 732*100/ 744= 98.4%

THREE HIGHEST VALUES FOR AUG, 1996 XXXX(DD,HH) = ++++(3,17) 9107(3,18) 7966(20,16) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 — SEPT, 1996

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	11	<10	31	12	<10	<10	<10	-54	-28	-26	-37	-38	-93	-402	1582	196	28	<10	<10	<10	<10	<10
2	14	<10	<10	<10	<10	<10	<10	<10	<10	-16	-49	-66	-55	-91	-136	-284	----	159	11	<10	<10	<10	11	<10
3	10	<10	<10	<10	<10	<10	<10	<10	<10	93	-409	-527	-346	-388	-523	----	1764	352	91	29	36	27	<10	<10
4	<10	<10	<10	<10	32	90	<10	71	++++	-989	-727	-713	-846	-805	----	----	2689	856	366	424	350	209	254	331
5	150	22	28	12	32	<10	<10	94	----	-272	-233	-154	-194	-313	-497	-689	----	352	169	55	<10	<10	<10	<10
6	<10	<10	21	<10	<10	<10	<10	<10	<10	<10	-20	-16	-19	-15	-55	-143	-471	252	31	<10	<10	<10	<10	<10
7	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-9	-28	-88	-89	-119	-245	----	271	44	<10	<10	<10	11	<10
8	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-175	-25	-15	-66	-221	-80	-384	187	14	<10	<10	12	12	<10
9	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-18	-25	-42	-62	-97	-341	47	<10	<10	<10	32	<10	<10
10	33	<10	18	<10	11	<10	<10	<10	<10	63	-27	-17	-19	-32	-71	-94	-420	148	21	<10	<10	<10	61	20
11	45	19	24	<10	<10	<10	<10	<10	105	<10	-43	-16	-18	-42	-69	-104	-604	208	26	<10	<10	14	<10	<10
12	<10	<10	<10	<10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	<10	28	80	351	336	345	990	----	----	7802	4080	671	2823	610	455	93	<10	<10	<10	<10	<10
14	<10	<10	<10	<10	<10	<10	<10	<10	<10	2061	-26	-29	-22	-23	-24	-38	----	313	63	32	<10	<10	<10	<10
15	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-132	-93	-355	----	-897	----	3743	566	433	264	121	80	42	226
16	234	154	119	43	<10	<10	39	79	----	-90	-36	-36	-97	-105	-187	-336	2148	135	68	40	132	<10	52	44
17	88	76	20	45	<10	<10	27	19	-46	-7	-20	-23	-3	-12	-29	-69	----	150	15	<10	<10	<10	<10	<10
18	<10	16	<10	13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	<10	<10	<10	<10	<10	<10	<10	<10	-14	-36	-87	-196	-456	760	92	15	<10	<10	<10	<10	<10
20	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	23	-7	-34	-119	-359	787	87	19	<10	<10	<10	<10	<10
21	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-52	-123	-183	-376	----	1296	298	97	31	<10	<10	<10	<10
22	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-23	-24	-71	-143	-311	-705	1021	143	<10	<10	<10	<10	15	<10
23	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-24	-107	-199	-495	----	879	256	48	42	<10	<10	<10	<10
24	<10	<10	<10	<10	<10	<10	<10	-1	<10	<10	<10	-13	-79	-206	-440	----	601	128	57	32	<10	<10	<10	<10
25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-50	-105	-151	-289	----	1506	883	217	40	11	<10	<10	<10	<10
26	<10	<10	<10	<10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
27	****	****	****	<10	13	22	95	288	----	-456	-168	-130	-105	-18	-164	-13	14	<10	<10	<10	<10	<10	<10	<10
28	<10	<10	<10	<10	<10	<10	<10	<10	<10	0	<10	-79	-276	-171	-286	-219	46	<10	<10	<10	<10	<10	<10	<10
29	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-13	-20	-38	-24	79	<10	<10	14	<10	13	<10	<10	<10
30	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-76	-47	-101	----	387	83	19	<10	<10	<10	<10	<10

PERCENT VALID HOURS FOR SEPT, 1996 651*100/ 720= 90.4%

THREE HIGHEST VALUES FOR SEPT, 1996 XXXX(DD,HH) = ++++(4, 8) 7802(13,12) 4080(13,13) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 — OCT, 1996

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	<10	<10	130	<10	<10	<10	-20	-50	-362	----	650	112	<10	<10	<10	<10	<10	<10
2	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-37	-96	-85	-76	-24	-429	<10	<10	<10	17	13	21	<10	<10
3	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-5	-5	-12	-89	-454	519	151	<10	<10	17	<10	37	<10	<10
4	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-105	-36	-52	-281	131	28	<10	<10	<10	32	<10	<10	<10
5	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-223	-22	-264	-674	<10	<10	<10	28	25	<10	<10	<10
6	<10	<10	<10	<10	<10	<10	<10	<10	-43	<10	<10	<10	<10	35	-35	-50	<10	<10	<10	<10	<10	<10	25	<10
7	<10	<10	<10	13	****	****	****	****	<10	<10	<10	<10	65	-36	-739	41	<10	<10	<10	<10	<10	<10	<10	<10
8	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-35	-19	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
9	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-96	-330	355	74	15	<10	<10	<10	<10	<10	<10
10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-262	-473	----	1307	251	62	<10	<10	<10	<10	<10	<10
11	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-65	-137	-478	1602	327	66	<10	<10	<10	<10	<10	<10
12	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-645	----	746	251	42	<10	<10	<10	<10	<10	<10
13	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	497	----	-947	----	1309	196	17	16	<10	<10	<10	<10	<10
14	<10	<10	<10	<10	<10	<10	<10	<10	65	<10	<10	-23	<10	-40	-12	<10	<10	<10	<10	<10	<10	<10	<10	<10
15	<10	<10	<10	<10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	35	81	<10	<10	<10	161	63	-891	-24	-44	<10	<10	<10	<10	<10	<10	11	<10	<10	<10	<10
18	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	69	-894	----	1422	311	90	25	<10	13	<10	<10	<10
19	16	26	95	169	163	115	126	124	344	-576	-120	-78	-64	-199	-425	++++	314	312	257	60	10	202	163	85
20	241	29	33	43	10	40	29	83	763	-251	-140	-56	-36	-94	-194	----	479	248	138	98	40	47	71	82
21	77	62	111	169	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
22	****	****	****	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-110	-25	38	<10	<10	<10	<10	<10	<10	<10	<10
23	<10	<10	16	<10	<10	<10	<10	<10	<10	<10	<10	-13	-59	-143	-173	53	<10	<10	<10	<10	<10	<10	<10	<10
24	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-28	<10	-661	986	2400	682	386	139	<10	<10	<10	<10	20	157
25	40	12	382	260	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	<10	<10	<10	87	222	1112	----	----	-702	----	----	3158	1034	531	368	188	184	135	25	<10	<10
27	33	15	<10	<10	25	38	24	22	221	----	----	501	349	638	316	649	288	369	217	51	227	102	<10	<10
28	<10	<10	<10	<10	<10	<10	<10	<10	<10	14	36	<10	15	<10	<10	<10	86	91	27	<10	<10	<10	13	21
29	<10	<10	<10	<10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	<10	<10	<10	<10	<10	<10	<10	41	41	259	223	127	256	100	29	35	46	<10	<10	<10	<10
31	<10	16	57	<10	47	26	<10	<10	<10	<10	-957	-887	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

PERCENT VALID HOURS FOR OCT, 1996 624*100/ 744= 83.9%

THREE HIGHEST VALUES FOR OCT, 1996 XXXX(DD,HH) = ++++(19,15) 3158(26,14) 2400(24,14) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 NOV, 1996

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	15	<10	<10	27	<10	15	20	<10	<10	187	91	265	304	174	44	48	35	90	91	94	40	85	33
2	11	<10	<10	<10	<10	<10	11	<10	<10	32	12	16	<10	20	114	152	79	37	39	<10	21	22	53	<10
3	<10	<10	<10	26	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
4	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
5	****	****	****	<10	<10	<10	<10	<10	<10	<10	<10	544	516	239	400	404	187	32	103	79	17	<10	<10	40
6	43	27	52	40	47	13	<10	112	106	322	1959	212	20	<10	<10	40	60	33	<10	<10	<10	<10	<10	15
7	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
8	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
9	<10	<10	<10	<10	<10	<10	<10	<10	<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	<10	<10	25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
11	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
12	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
13	<10	<10	<10	<10	<10	<10	<10	17	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	11	<10	<10
14	<10	<10	<10	<10	17	<10	<10	<10	<10	<10	<10	<10	<10	<10	128	33	31	27	<10	<10	<10	<10	16	<10
15	<10	<10	<10	<10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	<10	<10	<10	<10	23	<10	<10
18	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-80	44	45	90	55	<10	<10	25	<10	<10	<10	<10	<10
19	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	34	70	38	47	14	<10	<10	<10
20	<10	<10	<10	<10	<10	12	<10	<10	<10	<10	<10	<10	<10	<10	<10	48	10	<10	10	<10	<10	21	<10	<10
21	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	21	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
22	44	16	173	262	382	313	329	171	282	451	621	692	734	537	432	252	127	36	21	<10	<10	<10	18	<10
23	13	27	25	<10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
24	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
25	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	19	56	29	17	45	35	11	302	630	887	727	422	271	133	71	81	99	68	98	148	123
27	38	39	20	41	10	11	<10	52	98	55	<10	<10	163	45	261	219	66	<10	<10	<10	21	17	<10	<10
28	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	16	<10	28	<10	<10
29	18	31	40	37	<10	<10	10	51	35	108	1029	1504	----	403	697	581	101	<10	39	127	114	64	77	12
30	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-191	-60	<10	<10	<10	<10	<10	<10	<10	<10	17	<10	10

PERCENT VALID HOURS FOR NOV, 1996 541*100/ 720= 75.1%

THREE HIGHEST VALUES FOR NOV, 1996 XXXX(DD,HH) = 1959(6,10) 1504(29,11) 1029(29,10) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 1 DEC, 1996

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	<10	<10	<10	<10	<10	<10	15	<10	73	46	18	<10	<10	<10	<10	43	33	<10
2	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	19	<10	<10	22
3	<10	<10	<10	<10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
4	****	****	****	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	29	<10	<10
5	<10	<10	<10	<10	<10	<10	<10	<10	<10	13	<10	<10	<10	<10	<10	<10	<10	<10	19	<10	<10	<10	<10	<10
6	<10	<10	<10	<10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
7	****	****	****	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	41	17	<10	31	<10	<10	<10	<10	<10
8	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	34	<10	<10	<10	<10	<10
9	<10	<10	<10	<10	<10	<10	<10	<10	11	31	13	<10	<10	63	81	84	21	39	<10	<10	19	13	31	120
10	218	194	52	129	174	162	214	104	61	323	453	407	419	253	334	235	307	211	228	236	157	163	67	70
11	99	67	90	94	76	51	33	25	<10	<10	<10	<10	<10	22	<10	<10	<10	<10	<10	<10	<10	14	<10	<10
12	14	<10	<10	<10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
15	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
18	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
21	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	67	196	261	403	259	345	498	285	195	229	593	580	709
22	404	402	560	768	674	669	683	768	1220	1126	877	1612	2269	1832	1004	552	310	384	336	123	192	106	<10	<10
23	<10	<10	<10	<10	28	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	29	<10	<10	<10	<10	20	<10
24	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
25	<10	<10	<10	<10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	<10	40	14	<10	<10	12	<10	<10	<10	<10	<10	<10	<10	<10	<10	21	<10	<10	<10	<10	<10
27	<10	<10	<10	<10	<10	<10	<10	23	23	<10	<10	13	12	<10	42	117	85	34	<10	<10	<10	<10	<10	<10
28	<10	<10	<10	<10	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
29	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	<10	17	<10	13	<10	18	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	18	<10	<10
31	<10	<10	<10	<10	<10	<10	<10	10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	19	<10	43	21	<10	25

PERCENT VALID HOURS FOR DEC, 1996 437*100/ 744= 58.7%

THREE HIGHEST VALUES FOR DEC, 1996 XXXX(DD,HH) = 2269(22,12) 1832(22,13) 1612(22,11) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 JAN, 1996

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	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
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	<20	<20	<20	<20	<20	<20	145	35	<20	<20	<20	<20	<20	<20	50	<20	<20	<20	81	57	60	42	52	<20

PERCENT VALID HOURS FOR JAN, 1996 24*100/ 744= 3.2%

THREE HIGHEST VALUES FOR JAN, 1996 XXXX(DD,HH) = 145(31, 6) 81(31,18) 60(31,20) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 FEB, 1996

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	<20	<20	-6	-67	-141	-943	217	185	52	<20	30	<20	32	<20
2	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	406	<20	-231	-41	-283	++++	290	45	142	<20	<20	<20	<20	<20
3	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	35	<20	<20	<20	<20
4	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-16	-67	121	70	<20	<20	<20	<20	<20	<20	<20	23
5	<20	<20	<20	<20	<20	<20	<20	23	<20	178	-11	-20	-28	-241	35	54	<20	<20	<20	<20	<20	<20	<20	<20
6	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-183	-10	-49	-525	-336	32	<20	<20	<20	<20	<20	<20	<20
7	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-305	-7	-33	-9	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
8	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-88	<20	<20	<20	207	36	<20	<20	<20	<20	<20	<20	<20
9	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-1	-97	<20	<20	<20	<20	<20	<20	<20	<20	<20
10	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	181	<20	<20	-11	-292	689	34	<20	<20	49	<20	<20	<20	<20
11	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-2	-1	37	-12	-382	----	767	110	<20	<20	<20	<20	<20	<20
12	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	47	-53	-497	-504	-774	----	531	64	<20	<20	<20	<20	<20	<20
13	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-4	-31	-33	-6	102	<20	<20	40	<20	<20	<20	<20	<20
14	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-12	-5	-15	-562	65	28	<20	<20	<20	<20	<20	<20
15	<20	<20	<20	<20	<20	<20	<20	<20	-1	<20	<20	<20	<20	-20	-31	-920	170	40	<20	<20	<20	<20	<20	<20
16	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-29	-47	-89	-174	-439	129	37	<20	<20	<20	<20	<20	<20
17	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-356	-220	-611	4430	148	<20	<20	<20	<20	<20	<20	<20
18	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-12	-5	-172	-528	634	113	<20	<20	<20	<20	<20	<20
19	<20	<20	<20	<20	<20	<20	<20	<20	23	<20	732	----	----	----	----	2230	2047	1396	1394	1068	1090	1200	981	1189
20	1221	1504	1321	1328	896	1145	1208	1546	2813	8139	1467	1885	1532	1154	4260	467	506	293	202	165	133	317	30	<20
21	188	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
22	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
23	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
24	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
25	****	****	****	****	****	****	****	****	****	++++	----	----	----	-816	----	507	<20	231	333	116	148	56	51	31
26	130	86	90	28	93	<20	<20	<20	<20	<20	----	-308	-496	-418	-436	-907	----	459	227	<20	<20	<20	<20	<20
27	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-5	-58	-45	-68	-533	770	358	142	<20	36	<20	<20	<20
28	****	****	****	****	****	****	****	****	<20	<20	<20	-74	<20	-3	-101	<20	40	<20	<20	<20	<20	<20	<20	<20
29	20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-25	-3	-12	1307	<20	<20	<20	<20	<20	<20	<20

PERCENT VALID HOURS FOR FEB, 1996 584*100/ 696= 83.9%

THREE HIGHEST VALUES FOR FEB, 1996 XXXX(DD,HH) = ++++(2,15) ++++(25, 9) 8139(20, 9) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 MAR, 1996

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	-23	<20	-8	-14	-98	-305	-918	538	149	25	47	<20	<20	<20	<20
2	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-22	-21	-34	-8	-12	119	36	40	<20	<20	<20	<20	<20
3	<20	<20	<20	<20	<20	<20	<20	<20	<20	364	<20	<20	130	1274	718	<20	<20	<20	<20	<20	<20	<20	<20	<20
4	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
5	****	****	****	****	****	****	****	****	****	----	----	-756	-734	----	----	----	7718	975	524	901	712	474	848	396
6	35	25	87	<20	<20	<20	<20	<20	<20	-620	-211	-62	-37	-96	-36	-64	7798	56	22	<20	<20	<20	<20	<20
7	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-24	-12	-18	-7	-16	-367	<20	<20	<20	<20	<20	<20	<20
8	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-580	-69	-7	-126	-251	-244	1393	117	<20	<20	<20	<20	<20	<20
9	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	52	-38	-114	-70	-55	<20	20	<20	<20	46	<20	<20	<20	<20
10	<20	<20	<20	<20	<20	<20	<20	<20	73	----	-16	-208	-435	-395	-454	-823	3368	117	39	<20	<20	<20	<20	<20
11	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-38	-169	-227	-231	-259	-435	----	203	216	61	<20	<20	<20	<20
12	<20	<20	<20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	<20	<20	<20	<20	<20	<20	<20	-33	-26	-28	-14	-14	-44	-358	<20	<20	<20	60	23	<20	<20
15	<20	22	<20	<20	<20	<20	<20	<20	<20	<20	-33	-23	-25	-62	-35	-78	-199	<20	<20	42	<20	<20	<20	<20
16	<20	<20	<20	<20	<20	<20	<20	<20	-21	-100	-728	-865	-281	-257	-162	-218	1958	94	75	113	<20	<20	<20	<20
17	49	74	22	<20	<20	<20	<20	50	87	294	-68	-33	-50	-49	-98	-54	-446	143	40	31	<20	<20	60	95
18	81	40	<20	<20	<20	<20	<20	<20	<20	<20	-19	-28	-8	-15	-5	-23	-175	<20	<20	<20	<20	<20	<20	<20
19	<20	<20	<20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
21	****	****	****	<20	<20	<20	<20	<20	<20	-8	<20	-3	-29	-135	-208	-331	----	285	31	47	<20	<20	<20	<20
22	<20	<20	<20	<20	<20	<20	<20	<20	<20	114	-442	-386	-446	-418	-458	----	----	1749	751	613	108	280	291	288
23	229	202	198	38	25	49	39	545	-227	-97	-118	-243	-502	-399	-276	-290	-820	1350	290	136	73	<20	54	<20
24	<20	<20	<20	<20	<20	<20	<20	<20	<20	0	-13	-11	-95	-116	-353	-614	----	562	275	93	95	<20	<20	<20
25	<20	<20	<20	<20	<20	<20	<20	<20	-10	-40	-14	-6	-10	-39	-69	-117	-106	2130	4204	++++	1300	676	534	430
26	237	342	395	307	224	341	242	2332	-340	-140	-60	-18	-7	-8	-12	-24	-63	127	101	49	<20	<20	<20	<20
27	<20	<20	<20	<20	<20	<20	<20	-9	-124	-46	-31	-1	-38	-65	-194	-309	----	642	49	<20	<20	<20	<20	<20
28	<20	<20	<20	<20	<20	<20	<20	280	-796	-914	-750	-701	-607	-758	----	----	----	3930	2047	2002	4852	655	582	232
29	109	<20	<20	<20	<20	<20	141	85	-71	-179	-107	-11	-10	-14	-8	-20	-275	764	66	<20	<20	<20	<20	<20
30	<20	<20	<20	<20	<20	<20	<20	<20	<20	-52	-4	-7	-23	-58	-98	-152	-688	853	80	<20	<20	<20	<20	<20
31	<20	<20	<20	<20	<20	<20	<20	-1	-2	-62	<20	-10	-14	-24	-135	-347	----	746	181	72	<20	<20	<20	<20

PERCENT VALID HOURS FOR MAR, 1996 615*100/ 744= 82.7%

THREE HIGHEST VALUES FOR MAR, 1996 XXXX(DD,HH) = ++++(25,19) 7798(6,16) 7718(5,16) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 APR, 1996

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	349	-103	-351	-484	-637	-565	-713	----	----	2517	2750	1516	319	613	615	535
2	389	259	286	169	85	<20	<20	-6	-34	-6	-37	-85	-57	-47	-44	-25	-195	1088	113	53	<20	<20	<20	<20
3	<20	<20	<20	<20	<20	<20	<20	-323	-12	0	0	-1	-8	-28	-63	-100	-190	702	129	92	<20	<20	<20	<20
4	<20	22	86	<20	<20	145	76	----	-534	-237	-181	-153	-322	-321	-370	-288	-671	660	103	59	236	202	311	180
5	163	252	359	174	124	162	326	7041	-896	-593	-390	-269	-164	-85	-70	-101	-427	430	37	<20	<20	<20	<20	<20
6	<20	<20	<20	<20	<20	<20	<20	<20	<20	-1	0	-11	-19	-8	-5	-27	-76	147	<20	<20	<20	<20	<20	<20
7	<20	<20	<20	<20	<20	<20	<20	-15	<20	0	-2	-3	-5	-6	-7	-25	-219	573	70	<20	<20	<20	<20	<20
8	<20	<20	<20	<20	<20	<20	<20	<20	<20	-42	-4	-36	-111	-148	-217	-337	----	925	114	<20	<20	<20	<20	<20
9	<20	<20	<20	<20	<20	<20	<20	<20	<20	-11	-118	-370	-391	-527	-818	-793	----	729	311	162	<20	<20	<20	<20
10	<20	<20	<20	<20	<20	<20	<20	<20	<20	-12	-24	-52	-120	-176	-313	-459	----	1576	175	99	122	65	86	<20
11	<20	<20	40	<20	<20	<20	115	-552	-120	-115	-59	-33	-19	-26	-15	-52	-294	1773	149	<20	<20	<20	<20	<20
12	<20	<20	<20	<20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	<20	<20	<20	<20	<20	-23	-79	-80	-13	-12	-26	-19	-22	-65	861	108	54	<20	<20	141	<20
14	119	103	31	<20	<20	<20	<20	843	-1	-111	-162	-119	-57	-21	-13	-21	-38	-259	<20	<20	<20	<20	<20	<20
15	<20	<20	<20	<20	<20	<20	<20	-1	-3	-2	-1	-10	-11	-43	-58	-346	-851	1324	167	<20	<20	<20	<20	192
16	218	427	149	80	95	149	635	1115	7874	++++	----	----	-620	-428	-546	----	----	6965	1057	669	902	999	1024	552
17	307	321	216	167	182	317	1032	----	-338	-263	-252	-192	-240	-257	-286	-498	----	8247	793	875	958	1147	946	1384
18	1316	1241	1543	1654	1026	1469	3683	----	-778	-555	-594	-197	-156	-133	-136	-142	-237	++++	241	144	117	130	71	49
19	<20	<20	<20	<20	<20	<20	<20	2478	0	-3	-8	-2	-12	-8	-38	-236	-594	658	80	33	53	<20	<20	49
20	<20	<20	<20	<20	<20	<20	102	----	-162	-87	-76	-44	-14	-16	-18	-21	-103	136	<20	<20	162	<20	<20	<20
21	<20	<20	<20	<20	<20	<20	<20	-100	-2	-6	-3	-11	-21	-62	-78	-57	-94	198	<20	52	<20	<20	<20	<20
22	<20	<20	<20	<20	<20	<20	<20	325	<20	0	-9	-22	-28	-45	-27	-46	-85	680	69	<20	<20	<20	<20	<20
23	<20	<20	<20	<20	<20	<20	<20	-14	-4	0	-2	-8	-28	-60	-129	-94	-345	149	<20	<20	<20	<20	<20	<20
24	<20	<20	<20	<20	<20	23	<20	-57	-51	-3	-95	-167	-248	-239	-404	-632	----	1458	229	151	364	176	<20	<20
25	<20	<20	<20	<20	44	<20	301	-379	-100	-103	-118	-89	-51	-57	-67	-229	-297	1781	96	<20	<20	<20	<20	<20
26	<20	<20	<20	<20	<20	<20	<20	<20	-4	0	-14	-1	-10	-100	-416	-437	-783	1497	118	<20	<20	<20	<20	<20
27	65	<20	<20	<20	<20	<20	<20	-73	-23	-73	-28	-19	-25	-59	-156	-367	-497	1408	320	90	180	443	56	246
28	412	522	555	251	190	398	1748	----	-862	-539	-549	-358	-267	-225	-273	-408	-596	++++	731	212	152	188	273	165
29	51	<20	<20	<20	<20	<20	56	377	-34	-38	-3	-5	-4	-6	-9	-3	-7	-48	48	58	<20	<20	<20	<20
30	<20	<20	<20	<20	<20	<20	<20	<20	0	-2	-6	-8	-46	-11	-30	-149	-445	1594	189	71	118	135	133	32

PERCENT VALID HOURS FOR APR, 1996 697*100/ 720= 96.8%

THREE HIGHEST VALUES FOR APR, 1996 XXXX(DD,HH) = ++++(16, 9) ++++(18,17) ++++(28,17) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 MAY, 1996

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	0	-7	-19	-41	-47	-49	-80	-78	-217	1100	57	<20	46	<20	<20	<20
2	<20	<20	<20	<20	<20	<20	-12	<20	<20	-7	-4	-89	-127	-157	-222	-271	-653	2396	130	31	39	<20	<20	<20
3	<20	<20	<20	<20	<20	<20	<20	<20	-7	-1	-6	-46	-106	-91	-180	-215	-396	1854	119	<20	<20	<20	<20	<20
4	<20	<20	<20	<20	<20	<20	<20	<20	-4	-12	-5	-7	-10	-58	-95	-170	-485	773	150	78	<20	<20	<20	<20
5	<20	<20	<20	<20	<20	<20	<20	-2	-3	-5	-10	-35	-85	-123	-165	-183	-313	4474	77	<20	<20	<20	<20	<20
6	<20	<20	<20	<20	<20	<20	<20	-3	0	0	-2	-5	-91	-134	-237	-313	-670	----	213	<20	<20	<20	<20	35
7	<20	<20	<20	<20	<20	<20	<20	<20	-210	-124	-97	-82	-71	-92	-125	-194	-345	1209	165	<20	<20	22	<20	<20
8	<20	<20	<20	<20	<20	<20	<20	<20	-18	-24	-39	-43	-67	-114	-133	-230	-438	2207	410	149	118	27	183	171
9	446	188	<20	102	170	86	1910	-54	-8	-5	-16	-45	-18	-6	-69	-28	-9	-693	444	97	<20	<20	<20	<20
10	<20	<20	<20	<20	<20	<20	63	<20	-253	-10	-7	-16	-14	-11	-18	-33	-72	----	101	54	<20	<20	<20	<20
11	<20	<20	<20	<20	<20	<20	<20	<20	0	0	0	-6	-12	-9	-10	-66	-152	357	52	<20	<20	<20	<20	<20
12	<20	<20	<20	<20	<20	<20	<20	<20	-70	-1	0	-7	-31	-43	-43	-103	-423	5917	265	43	57	63	<20	<20
13	<20	<20	<20	<20	<20	<20	<20	<20	-40	-4	-98	-142	-130	-162	-233	-307	-528	753	212	49	<20	<20	148	58
14	70	<20	23	<20	<20	<20	<20	-55	-170	-78	-54	-74	-65	-120	-150	-288	-566	6921	1395	569	860	402	183	130
15	<20	90	22	<20	<20	<20	<20	-117	-163	-265	-182	-243	-442	-665	-643	-740	----	----	4056	2221	1872	1429	1115	1469
16	1164	1114	1272	920	895	766	++++	----	----	-962	-973	-652	-476	-868	----	-789	----	----	2342	946	425	70	456	368
17	41	<20	<20	<20	<20	<20	<20	-45	-91	-64	-33	-7	-117	-273	-368	-466	-860	----	501	419	213	179	118	65
18	86	71	53	67	159	359	2907	----	-923	-595	-516	-485	-494	-468	-368	-693	----	++++	996	602	577	20	86	48
19	<20	<20	<20	<20	<20	<20	<20	-34	-103	-57	-68	-76	-104	-109	-112	-166	-175	-691	232	82	130	60	<20	<20
20	33	24	<20	50	264	262	1216	-349	-102	-28	-13	-4	-8	-13	-12	-12	-4	-267	455	100	35	<20	<20	<20
21	<20	<20	<20	<20	<20	<20	<20	<20	<20	-4	-19	-55	-158	-321	-426	-458	-556	----	131	<20	<20	152	406	89
22	389	308	138	21	<20	<20	<20	-321	-175	-88	-64	-87	-70	-118	-151	-229	-502	----	405	156	216	245	220	274
23	275	118	112	<20	156	39	340	-244	-77	-25	-19	-24	-41	-50	-53	-390	----	----	1136	1221	519	773	1314	993
24	951	593	748	1741	3314	2968	1404	2161	++++	-570	----	----	----	----	-406	-264	-18	-97	-943	314	106	86	91	<20	<20
25	<20	<20	<20	<20	<20	96	7295	-575	-142	-62	-48	-121	-18	-12	-58	-95	-456	307	<20	<20	<20	<20	<20	<20
26	46	<20	<20	<20	<20	<20	<20	51	-4	-1	-7	-22	-13	-24	-46	-95	-121	-586	404	87	<20	58	66	29
27	<20	<20	<20	50	<20	<20	26	-14	-83	-907	-459	-298	-182	-299	-226	-200	-637	----	++++	1248	49	<20	<20	<20
28	<20	<20	<20	<20	<20	<20	<20	81	-32	0	-1	-16	-4	-78	-29	-59	-300	----	216	<20	<20	<20	<20	<20
29	<20	<20	<20	<20	<20	<20	<20	-83	-397	-434	-465	-469	-377	-245	-265	-306	-471	----	322	98	<20	<20	<20	<20
30	<20	<20	<20	<20	<20	22	31	-24	-5	-7	-11	-2	-8	-90	-96	-82	-72	-255	215	63	26	<20	<20	<20
31	<20	<20	<20	47	<20	<20	<20	-24	-3	-1	-2	-9	-34	-42	-68	-87	-127	-413	241	50	<20	<20	<20	<20

PERCENT VALID HOURS FOR MAY, 1996 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR MAY, 1996 XXXX(DD,HH) = ++++(16, 6) ++++(18,17) ++++(24, 8) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 — JUNE, 1996

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	0	-10	-9	-11	-13	-15	-17	-6	-32	-41	<20	<20	<20	<20	<20	<20
2	<20	<20	<20	<20	<20	<20	<20	-20	-1	0	-26	-46	-10	-13	-16	-4	-3	-14	<20	<20	<20	<20	<20	<20
3	<20	<20	<20	<20	<20	<20	<20	-4	0	0	-1	-4	-40	-13	-21	-33	-29	-288	191	56	<20	<20	<20	<20
4	<20	<20	<20	<20	<20	<20	<20	-8	-4	-11	-2	-66	-101	-123	-124	-205	-201	----	188	27	<20	<20	<20	<20
5	<20	<20	<20	<20	<20	<20	<20	-9	-5	0	-10	-47	-102	-129	-122	-100	-119	-501	101	27	24	<20	<20	<20
6	<20	<20	<20	<20	<20	<20	<20	-4	-1	-2	-5	-6	-18	-22	-20	-15	-23	-87	<20	71	<20	<20	<20	<20
7	<20	<20	<20	<20	<20	<20	<20	-38	-5	-1	-7	-73	-41	-121	-126	-302	-494	----	739	89	27	<20	60	96
8	<20	<20	<20	<20	<20	<20	<20	-83	-4	-2	-26	-149	-323	-191	-163	-153	-186	-524	220	<20	<20	36	22	<20
9	<20	<20	<20	<20	<20	<20	-9	-8	0	-3	-40	-53	-44	-25	-34	-36	-98	++++	166	59	187	<20	<20	<20
10	<20	<20	22	<20	<20	<20	<20	-10	-18	-5	-22	-60	-69	-88	-119	-109	-253	-525	386	51	<20	47	<20	<20
11	<20	69	<20	<20	<20	<20	51	-85	-19	-26	-32	-36	-63	-120	-164	-247	-277	-825	625	56	<20	43	<20	<20
12	<20	<20	<20	<20	<20	<20	<20	<20	-9	-1	-15	-40	-85	-98	-253	-496	-677	----	965	126	<20	<20	<20	<20
13	<20	<20	<20	<20	<20	<20	<20	-5	-2	-2	-7	-15	-28	-33	-90	-306	-564	----	896	98	<20	<20	40	<20
14	<20	<20	<20	<20	<20	<20	<20	-10	-12	-1	-11	-4	-47	-67	-72	-180	-356	----	504	67	<20	<20	<20	<20
15	<20	<20	<20	<20	<20	<20	----	-25	-61	0	-16	-113	-110	-183	-266	-318	-544	----	835	159	<20	<20	<20	<20
16	<20	<20	<20	<20	<20	<20	-30	-3	-10	-16	-67	-427	-341	-362	-467	-515	-535	----	581	54	<20	<20	<20	<20
17	<20	<20	<20	<20	<20	<20	50	-123	-188	-502	-395	-307	-223	-205	-230	-300	-516	----	609	123	47	58	<20	<20
18	40	<20	<20	<20	<20	<20	<20	-27	0	-11	-30	-41	-83	-135	-294	-238	-455	----	430	<20	<20	<20	<20	<20
19	<20	<20	<20	<20	<20	<20	<20	-24	-9	-10	-12	-42	-217	-337	-274	-295	-275	----	1174	239	37	175	449	259
20	282	201	176	<20	<20	<20	192	----	----	-431	-350	-285	-495	-325	-376	-324	-550	----	885	96	66	<20	29	156
21	125	38	71	<20	<20	<20	63	-63	-227	-836	-646	-421	-218	-289	-323	-353	-622	----	1610	345	164	239	212	74
22	<20	<20	<20	<20	<20	<20	<20	<20	0	-1	-2	-12	-14	-30	-23	-71	-177	-453	1422	97	26	<20	<20	<20
23	<20	<20	<20	<20	<20	<20	-119	-33	-1	-7	-12	-65	-64	-101	-183	-313	-586	----	1021	217	149	<20	<20	23
24	<20	39	48	<20	<20	<20	<20	-748	-324	-421	-526	-435	-330	-358	-433	-628	----	----	2276	420	283	377	696	33
25	<20	<20	<20	81	99	144	2038	-107	-358	-287	-302	-383	-281	-391	-717	-953	-980	----	2050	27	115	107	258	70
26	<20	80	62	261	180	79	392	380	770	448	238	134	2812	----	-660	----	----	----	757	172	184	186	115	<20
27	<20	<20	<20	<20	<20	<20	<20	<20	<20	0	-7	-42	-61	-57	-81	-157	-235	-475	635	64	60	<20	<20	<20
28	<20	<20	<20	<20	<20	<20	<20	53	-5	-4	-11	-20	-12	-2	-9	-17	-8	-27	<20	<20	<20	<20	<20	<20
29	<20	<20	<20	<20	<20	<20	<20	<20	-1	0	-4	-5	-5	-11	-13	-24	-17	-16	<20	<20	<20	<20	<20	<20
30	<20	<20	<20	<20	<20	<20	<20	-21	0	0	0	-14	-13	-4	-52	-72	-146	-489	179	25	<20	<20	<20	<20

PERCENT VALID HOURS FOR JUNE, 1996 720*100/ 720=100.0%

THREE HIGHEST VALUES FOR JUNE, 1996 XXXX(DD,HH) = ++++(9,17) 2812(26,12) 2276(24,18) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 — JULY, 1996

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	-7	-4	0	-4	-21	-59	-64	-67	-100	-137	-476	299	22	<20	<20	<20	<20
2	<20	<20	<20	<20	<20	<20	-38	0	-5	0	-5	-68	-60	-49	-114	-146	-258	-535	1078	221	31	<20	<20	30
3	61	63	70	56	114	62	<20	-87	-75	-269	-216	-279	-265	-380	-310	-364	-444	----	1418	312	160	197	<20	<20
4	<20	31	55	<20	<20	29	<20	-3	-2	-20	-93	-213	-204	-221	-224	-200	-408	-811	1113	69	<20	31	<20	<20
5	27	21	<20	<20	<20	<20	-6	-87	-43	-14	-15	-23	-49	-90	-108	-173	-312	-774	1610	102	<20	<20	53	<20
6	<20	<20	<20	<20	<20	<20	<20	<20	-1	0	-11	-34	-61	-71	-51	-89	-264	-368	463	64	20	<20	<20	<20
7	<20	<20	<20	<20	<20	<20	<20	-4	-2	-1	-57	-91	-108	-94	-130	-129	-219	-817	1411	47	<20	<20	<20	<20
8	<20	<20	<20	<20	<20	<20	<20	-25	-5	-2	-64	-104	-137	-207	-248	-304	-505	----	2358	172	<20	<20	<20	48
9	579	229	168	80	189	<20	-116	-36	-36	-16	-16	-70	-102	-99	-101	-142	-203	-432	1976	97	23	<20	<20	<20
10	<20	<20	<20	101	32	20	<20	0	-3	-1	-3	-12	-109	-24	-59	-134	-501	-427	-935	144	58	90	<20	23
11	57	39	<20	<20	<20	24	-159	-88	-20	-11	-35	-9	-8	-28	-178	-330	-155	-612	----	729	1181	1196	419	50
12	<20	58	<20	<20	<20	44	-253	-1	0	-1	-6	-8	-14	-18	-35	-254	-599	-729	223	154	<20	<20	<20	<20
13	<20	<20	<20	<20	<20	<20	70	-12	0	0	-4	-7	-4	-4	-65	-104	-88	-36	4277	514	187	<20	<20	<20
14	<20	<20	<20	<20	<20	<20	<20	0	-1	-1	-4	-23	-22	-308	-407	-608	-336	-180	38	23	109	530	484	219
15	24	<20	<20	<20	<20	<20	-82	-1	-2	-5	-29	-68	-141	-141	-164	-152	-270	-562	++++	297	142	63	21	<20
16	<20	<20	<20	30	49	<20	<20	-31	-410	-530	-456	-336	-339	-327	-398	-474	-749	----	2044	433	197	<20	<20	<20
17	153	106	21	<20	<20	32	<20	-81	-107	-157	-195	-332	-217	-262	-370	-504	-574	----	680	76	<20	22	<20	<20
18	<20	43	<20	<20	<20	<20	<20	49	-36	-21	-367	-365	-234	-208	-238	-350	-581	----	706	148	<20	<20	<20	<20
19	<20	<20	<20	<20	<20	<20	<20	0	-14	-4	-150	-162	-207	-151	-133	-154	-226	-675	362	42	<20	<20	<20	<20
20	<20	<20	<20	<20	<20	<20	<20	-80	0	-1	0	-18	-24	-56	-86	-108	-203	-588	266	<20	<20	<20	<20	<20
21	<20	<20	<20	<20	<20	<20	152	<20	-8	-18	-5	-19	-56	-57	-52	-88	-166	-517	73	28	<20	<20	<20	<20
22	<20	<20	<20	<20	<20	<20	<20	-4	-6	-3	-3	-2	-15	-56	-64	-75	-156	-403	197	52	30	<20	<20	<20
23	<20	<20	<20	<20	<20	<20	<20	<20	-7	0	-2	-4	-30	-76	-89	-90	-754	----	279	39	<20	43	73	<20
24	<20	<20	<20	<20	<20	<20	34	-8	-10	-2	-1	-34	-94	-97	-139	-121	-228	-755	278	41	<20	<20	<20	<20
25	<20	31	<20	<20	<20	<20	-354	-41	-12	-11	-72	-159	-119	-114	-105	-121	-203	-429	168	23	20	<20	<20	<20
26	<20	<20	<20	<20	<20	<20	50	-123	-70	-31	-48	-27	-15	-65	-91	-177	-309	-629	775	114	<20	5905	----	3576
27	54	392	191	86	<20	29	131	-26	-259	-116	-58	-72	-93	-45	-23	-148	-150	-426	----	524	218	180	57	<20
28	<20	<20	<20	<20	<20	<20	<20	-13	-1	-59	-162	-130	-101	-98	-100	-86	-21	0	-602	199	68	1091	706	235
29	35	<20	<20	<20	<20	<20	-142	-29	0	-1	-1	-1	-1	-6	-80	-154	-164	-129	72	<20	<20	<20	<20	<20
30	25	<20	<20	<20	<20	<20	<20	-1	-2	0	-1	-12	-48	-81	-47	-80	-112	-338	129	21	<20	<20	<20	<20
31	<20	<20	<20	<20	<20	<20	<20	0	0	0	-8	-38	-97	-88	-88	-84	-123	-208	696	86	<20	<20	29	<20

PERCENT VALID HOURS FOR JULY, 1996 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR JULY, 1996 XXXX(DD,HH) = ++++(15,18) 5905(26,21) 4277(13,18) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 AUG, 1996

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	-3	-11	-110	-236	-250	-244	-303	-281	-515	----	382	35	34	43	<20	30
2	107	80	<20	<20	<20	<20	<20	<20	-50	-544	-534	-407	-390	-438	-384	-448	-812	----	754	258	308	131	54	25
3	<20	54	<20	<20	<20	<20	<20	235	-565	-513	-477	-399	-353	-312	-384	-495	-712	----	805	249	80	220	291	74
4	63	25	<20	<20	<20	<20	<20	-14	-17	-6	-10	-26	-13	-39	-100	-143	-314	----	471	73	<20	<20	<20	<20
5	<20	<20	<20	<20	<20	<20	<20	<20	-99	-26	-172	-309	-351	-334	-381	-531	-904	----	922	217	157	158	168	166
6	<20	<20	<20	<20	<20	<20	<20	<20	-18	-1	-3	-4	-3	-10	-14	-10	-62	-380	289	50	<20	<20	<20	<20
7	<20	<20	60	<20	****	****	****	****	****	****	****	****	****	****	****	****	-36	-46	<20	<20	<20	<20	<20	<20
8	<20	<20	<20	<20	<20	<20	<20	-22	-3	-13	-1	0	-4	-21	-36	-27	-17	-75	<20	22	<20	<20	<20	<20
9	<20	<20	<20	<20	<20	<20	<20	-23	-5	-1	-2	-8	-1	-26	-3	-50	-41	-393	33	37	<20	<20	<20	<20
10	<20	<20	<20	<20	<20	<20	<20	<20	-3	-8	-2	-6	-8	-20	-20	-66	-192	-487	89	93	144	<20	<20	<20
11	<20	<20	<20	<20	<20	<20	<20	-1	-9	-2	-1	-9	-8	-28	-120	-134	-74	447	713	106	<20	<20	<20	<20
12	<20	<20	<20	<20	<20	<20	<20	-82	-14	-5	-153	-212	-726	-357	-178	-590	----	2411	313	99	<20	60	<20	<20
13	<20	<20	<20	<20	<20	<20	72	<20	0	-2	-1	-5	-31	-51	-90	-51	-53	-72	----	287	86	<20	<20	<20
14	<20	<20	<20	<20	<20	<20	<20	0	-8	-1	-4	-28	-82	-51	-146	-244	-400	----	147	35	48	<20	<20	<20
15	<20	<20	<20	<20	<20	<20	25	-40	-11	-1	-4	-26	-32	-45	-49	-100	-221	----	430	109	64	<20	52	57
16	36	39	331	<20	74	<20	<20	<20	-41	-4	-13	-39	-107	-109	-46	----	357	454	68	31	20	<20	<20	94
17	<20	<20	<20	<20	<20	<20	<20	<20	-11	-4	-2	-38	-82	-153	-166	-240	-756	----	415	230	203	133	147	<20
18	<20	<20	<20	<20	<20	<20	<20	<20	-22	-69	-122	-282	-297	-352	-351	-330	-613	4645	155	<20	<20	<20	<20	<20
19	<20	<20	<20	<20	<20	<20	<20	2188	-68	-51	-118	-337	-336	-432	-479	-497	-790	4249	264	112	<20	<20	34	<20
20	<20	<20	<20	<20	<20	<20	<20	-201	-17	0	-55	-362	-311	-312	-239	-478	-945	1176	116	<20	<20	<20	<20	<20
21	<20	<20	<20	<20	<20	<20	<20	<20	-11	0	-2	-5	-21	-53	-74	-92	-176	1020	33	<20	<20	<20	<20	<20
22	<20	<20	<20	<20	<20	<20	<20	<20	<20	0	0	-3	-13	-28	-40	-34	-161	5155	152	27	<20	<20	<20	<20
23	<20	<20	<20	<20	<20	<20	<20	-1	<20	-10	-2	-5	-16	-24	-52	-32	-86	-712	742	1086	288	241	68	35
24	57	<20	<20	<20	59	21	<20	319	-5	-10	-25	-41	-37	-41	-57	-143	-194	3973	915	288	27	<20	<20	<20
25	<20	<20	<20	<20	<20	<20	<20	<20	<20	-13	-1	-3	-7	-26	-40	-50	-35	-504	97	<20	222	<20	<20	<20
26	<20	<20	<20	<20	<20	<20	<20	-49	-6	0	-76	-327	-240	-279	-413	-378	-682	2415	297	<20	89	172	103	<20
27	<20	<20	<20	<20	<20	<20	<20	<20	-398	-699	-522	-359	-292	-318	-341	-448	-861	741	40	<20	<20	<20	<20	<20
28	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-55	-19	-29	-42	-65	165	57	47	<20	<20	<20	<20
29	<20	<20	<20	<20	<20	<20	<20	<20	<20	-1	0	-5	-7	-13	-32	-48	-321	264	80	29	<20	<20	<20	<20
30	<20	<20	<20	<20	<20	<20	<20	<20	-21	-27	0	-2	-10	-12	-63	-115	-165	212	61	<20	<20	<20	<20	<20
31	<20	<20	<20	<20	<20	<20	<20	-16	<20	-17	-12	-47	-109	-126	-140	-221	-668	454	31	58	<20	38	<20	<20

PERCENT VALID HOURS FOR AUG, 1996 732*100/ 744= 98.4%

THREE HIGHEST VALUES FOR AUG, 1996 XXXX(DD,HH) = 5155(22,17) 4645(18,17) 4249(19,17) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 — SEPT, 1996

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	-99	-23	-10	-23	-31	-28	-69	-243	-774	551	57	<20	<20	<20	<20	<20
2	<20	<20	<20	<20	<20	<20	<20	<20	0	-5	-31	-60	-50	-78	-115	-196	-552	582	32	<20	<20	<20	<20	<20
3	<20	<20	<20	<20	<20	<20	<20	<20	-79	-11	-294	-410	-259	-278	-340	-587	----	971	148	50	65	39	<20	<20
4	<20	<20	<20	<20	67	141	<20	405	----	-496	-446	-474	-579	-530	-655	-811	----	5668	821	805	594	330	400	519
5	252	28	50	<20	49	<20	<20	----	-510	-226	-192	-130	-174	-245	-324	-443	-764	1244	334	99	<20	<20	<20	<20
6	<20	<20	44	<20	<20	<20	<20	-122	0	-5	-12	-15	-13	-12	-49	-125	-273	2652	51	<20	<20	<20	<20	<20
7	<20	<20	<20	<20	<20	<20	<20	61	<20	-11	-3	-16	-78	-82	-96	-204	-363	1427	95	<20	<20	<20	<20	<20
8	<20	<20	<20	<20	<20	<20	<20	<20	<20	-28	-3	-16	-13	-43	-81	-42	-153	----	80	<20	<20	<20	<20	<20
9	<20	<20	<20	<20	<20	<20	<20	<20	<20	0	0	-2	-15	-33	-54	-81	-168	-111	25	<20	<20	71	<20	<20
10	68	<20	23	<20	<20	<20	<20	<20	-43	-16	-12	-9	-15	-31	-58	-78	-162	882	49	40	<20	<20	205	64
11	122	<20	72	<20	<20	<20	<20	<20	-48	0	-35	-12	-14	-36	-62	-84	-233	1028	58	22	<20	<20	<20	<20
12	<20	<20	<20	<20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	<20	37	162	632	792	935	----	----	----	----	----	----	----	4002	1197	212	<20	<20	<20	<20	<20
14	<20	<20	<20	<20	<20	<20	<20	<20	<20	-12	-19	-32	-19	-17	-17	-25	-348	899	122	78	<20	<20	<20	<20
15	<20	<20	<20	<20	<20	<20	<20	<20	<20	-252	-143	-93	-288	-713	-564	-833	----	1354	685	398	199	118	77	476
16	415	305	266	90	<20	<20	72	395	-239	-63	-39	-37	-112	-128	-226	-331	-768	293	117	61	258	<20	81	76
17	150	103	30	72	<20	<20	<20	94	-30	-1	-15	-16	-1	-16	-42	-65	-405	317	23	<20	<20	<20	<20	<20
18	<20	<20	<20	<20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	<20	<20	<20	<20	<20	<20	<20	-33	-7	-32	-81	-170	-316	----	184	29	<20	<20	<20	<20	<20
20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-3	-2	-2	-4	-26	-106	-236	----	216	35	<20	<20	<20	<20	<20
21	<20	<20	<20	<20	<20	<20	<20	<20	-1	-2	-35	-40	-108	-152	-297	-635	----	669	184	57	<20	<20	<20	<20
22	<20	<20	<20	<20	<20	<20	<20	<20	<20	-108	-6	-8	-61	-141	-271	-458	----	295	<20	<20	<20	<20	<20	<20
23	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-2	-22	-83	-171	-356	-770	----	506	88	72	<20	<20	<20	<20
24	<20	<20	<20	<20	<20	<20	<20	-1	0	<20	-4	-7	-62	-182	-295	-604	++++	230	96	54	<20	24	<20	<20
25	<20	<20	<20	<20	<20	<20	<20	<20	-1	-540	-29	-93	-132	-228	-511	----	----	446	75	<20	<20	<20	<20	<20
26	<20	<20	<20	<20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
27	****	****	****	<20	<20	46	155	881	-271	-252	-195	-210	-91	-15	-98	-11	-685	20	<20	<20	<20	<20	<20	<20
28	<20	<20	<20	<20	<20	<20	<20	<20	<20	0	-3	-65	-278	-159	-110	-62	-801	28	<20	<20	<20	<20	<20	<20
29	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	0	-1	-2	-7	-10	-14	206	<20	<20	<20	<20	<20	<20	<20
30	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-23	-43	-47	-331	2306	145	33	<20	<20	<20	<20	<20

PERCENT VALID HOURS FOR SEPT, 1996 651*100/ 720= 90.4%

THREE HIGHEST VALUES FOR SEPT, 1996 XXXX(DD,HH) = ++++(24,16) 5668(4,17) 4002(13,16) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 OCT, 1996

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	-598	-5	<20	-7	-11	-40	-260	-517	----	311	<20	<20	<20	<20	<20	<20
2	<20	<20	<20	<20	<20	<20	<20	<20	2315	-1	-30	-20	-25	-56	-15	-27	-103	<20	<20	<20	<20	36	<20	<20
3	<20	<20	<20	<20	<20	<20	<20	<20	<20	-26	-5	-4	-7	-60	-155	-576	1044	<20	<20	25	<20	38	<20	<20
4	<20	<20	<20	<20	<20	<20	<20	<20	128	-7	-2	-40	-34	-51	-159	-262	659	<20	<20	<20	59	<20	<20	<20
5	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-6	-1	-7	-15	-142	-24	-682	<20	<20	40	49	<20	<20	<20
6	<20	<20	<20	<20	<20	<20	<20	<20	-37	0	<20	0	-7	-14	-4	-14	<20	<20	<20	<20	<20	<20	25	<20
7	<20	<20	<20	<20	****	****	****	****	<20	<20	<20	-3	-60	-21	-87	-694	37	<20	<20	<20	<20	<20	<20	<20
8	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-19	-21	-13	-8	-3	-46	<20	<20	<20	<20	<20	<20	<20	<20
9	<20	<20	<20	<20	<20	<20	<20	<20	45	<20	<20	<20	-3	-49	-178	-368	167	<20	<20	<20	<20	<20	<20	<20
10	<20	<20	<20	<20	<20	<20	<20	<20	<20	270	54	-19	-166	-323	-467	----	619	120	<20	<20	<20	49	<20	<20
11	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-48	-113	-282	----	808	130	<20	<20	<20	<20	<20	<20
12	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-16	-334	-859	----	464	53	<20	<20	<20	<20	<20	<20
13	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	2257	-845	-510	-649	----	395	<20	<20	<20	<20	<20	<20	<20
14	<20	<20	<20	<20	<20	<20	<20	<20	-27	-2	-4	-5	-5	-6	-7	-174	<20	<20	<20	<20	<20	<20	<20	<20
15	<20	<20	<20	<20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	53	128	<20	<20	<20	----	-228	-60	-33	-54	-8	-19	<20	<20	<20	<20	<20	<20	<20	<20	<20
18	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-8	-1	-58	-514	----	----	577	132	28	<20	<20	<20	<20	<20
19	<20	42	167	303	302	175	196	234	-826	-429	-123	-91	-70	-182	-315	----	803	519	423	163	54	400	280	164
20	351	41	40	49	<20	62	52	208	-554	-173	-115	-50	-29	-96	-175	-667	986	394	229	143	50	70	101	117
21	102	84	121	231	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
22	****	****	****	<20	<20	<20	<20	<20	<20	<20	<20	0	<20	-14	-19	-87	<20	<20	<20	<20	<20	<20	<20	<20
23	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-58	-7	-10	-75	-79	----	<20	<20	<20	<20	<20	<20	<20	<20
24	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-25	-7	-371	----	----	1823	804	261	<20	<20	30	<20	<20	230
25	36	<20	578	471	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	<20	<20	<20	126	391	5541	-980	-888	-492	-945	-842	----	4875	839	563	317	266	186	<20	<20	<20
27	135	93	<20	39	86	115	87	101	1330	----	-868	5188	2847	4044	2795	4182	2091	1654	854	168	423	187	<20	<20
28	<20	<20	<20	<20	<20	<20	<20	<20	<20	21	338	378	1551	163	<20	<20	285	200	50	<20	<20	<20	24	21
29	<20	<20	<20	<20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	<20	<20	<20	<20	<20	<20	<20	95	157	901	638	235	250	<20	80	92	153	<20	<20	<20	<20
31	<20	38	82	<20	80	38	<20	28	<20	<20	-299	-314	<20	<20	-181	<20	<20	<20	<20	<20	<20	<20	<20	<20

PERCENT VALID HOURS FOR OCT, 1996 624*100/ 744= 83.9%

THREE HIGHEST VALUES FOR OCT, 1996 XXXX(DD,HH) = 5541(26, 8) 5188(27,11) 4875(26,15) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 NOV, 1996

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	554	694	4559	6638	1116	425	163	57	126	121	134	63	122	41
2	<20	<20	<20	<20	<20	<20	<20	<20	<20	256	113	95	34	87	174	280	145	65	63	<20	<20	<20	86	<20
3	<20	<20	<20	21	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
4	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
5	****	****	****	<20	<20	<20	<20	<20	<20	<20	59	-422	----	1061	919	667	299	43	137	100	<20	<20	<20	73
6	83	85	290	198	150	55	<20	157	234	686	-594	-237	-72	-97	216	104	123	109	<20	<20	<20	<20	<20	<20
7	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-32	<20	<20	<20	<20	<20	<20	<20	<20	<20
8	<20	<20	<20	<20	<20	<20	<20	<20	<20	-3	<20	<20	-13	-14	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
9	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	119	<20	<20	<20	<20	<20	35	<20	<20	<20	<20	<20
10	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-2	-5	-7	<20	<20	<20	<20	<20	<20	<20	<20	<20
11	<20	<20	<20	<20	<20	<20	<20	<20	<20	-31	-49	<20	<20	<20	-14	<20	<20	<20	<20	<20	<20	<20	<20	<20
12	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
13	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
14	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	58	63	52	<20	235	42	45	40	<20	<20	<20	<20	<20	<20
15	<20	<20	<20	<20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	<20	<20	<20	<20	38	<20	<20
18	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-41	-56	-336	-875	282	<20	<20	35	<20	<20	<20	<20	<20
19	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-4	-1	<20	29	<20	45	93	63	83	25	<20	<20	<20
20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	90	----	<20	111	<20	<20	<20	<20	<20	<20	<20	<20
21	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-153	<20	<20	<20	<20	<20	34	<20	<20	<20	<20
22	46	<20	225	349	490	395	425	242	436	669	1156	1377	1754	1313	869	404	185	51	33	<20	<20	<20	<20	<20
23	<20	34	23	<20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
24	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
25	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	41	78	<20	<20	48	69	47	697	3647	----	++++	1063	405	191	94	103	137	83	137	223	167
27	79	53	49	60	38	56	<20	76	139	95	<20	<20	1607	1067	578	376	73	<20	<20	<20	<20	<20	<20	<20
28	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	39	<20	<20
29	<20	42	54	29	<20	<20	<20	54	36	180	2445	++++	----	984	1217	936	138	51	74	164	154	78	108	32
30	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	++++	-49	-30	-506	<20	<20	<20	<20	<20	<20	<20	<20	<20

PERCENT VALID HOURS FOR NOV, 1996 541*100/ 720= 75.1%

THREE HIGHEST VALUES FOR NOV, 1996 XXXX(DD,HH) = ++++(30,11) ++++(29,11) ++++(26,13) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 2 DEC, 1996

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	<20	<20	----	236	168	68	23	<20	<20	<20	<20	63	52	<20
2	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
3	<20	<20	<20	<20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
4	****	****	****	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	20	<20	<20	<20
5	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
6	<20	<20	<20	<20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
7	****	****	****	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	-596	-33	75	32	<20	31	<20	<20	<20	<20	<20
8	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	55	<20	<20	<20	<20	<20
9	<20	<20	<20	<20	<20	<20	<20	<20	<20	42	<20	<20	28	58	107	108	21	61	<20	<20	20	<20	30	114
10	184	261	71	166	228	233	310	160	83	432	621	519	552	359	449	329	416	284	303	298	210	205	95	100
11	143	96	145	148	136	103	72	76	<20	<20	<20	54	<20	117	44	<20	<20	<20	<20	<20	<20	<20	<20	<20
12	<20	<20	<20	<20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
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
21	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	51	258	354	520	330	611	2318	1305	966	1065	2749	2837	3528
22	2079	1811	2481	3451	3183	3150	3353	3453	2201	1958	3222	++++	++++	++++	6254	3051	1483	1784	1525	628	979	559	73	60
23	<20	24	32	31	95	<20	<20	<20	<20	<20	<20	<20	65	165	196	58	33	87	<20	<20	<20	<20	75	29
24	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	36	<20	<20	22	<20	<20	<20	<20	<20	<20	<20	<20
25	<20	<20	<20	<20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	45	68	76	<20	26	81	63	92	<20	<20	<20	<20	<20	<20	<20	78	<20	<20	<20	<20	<20
27	<20	<20	<20	35	<20	<20	76	212	151	41	91	397	185	47	215	668	466	214	<20	<20	29	45	<20	<20
28	<20	<20	51	<20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
29	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	<20	113	<20	78	63	151	42	67	<20	52	<20	64	23	<20	20	<20	53	72	103	<20	<20
31	<20	<20	<20	<20	<20	<20	<20	44	50	146	124	<20	<20	<20	<20	<20	<20	<20	32	<20	72	<20	<20	40

PERCENT VALID HOURS FOR DEC, 1996 437*100/ 744= 58.7%

THREE HIGHEST VALUES FOR DEC, 1996 XXXX(DD,HH) = ++++(22,12) ++++(22,13) ++++(22,11) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 JAN, 1996

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	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
2	****	145	522	241	<80	<80	<80	<80	<80	----	-6	-15	-1	-16	-2	-55	<80	<80	<80	<80	<80	<80	<80	<80
3	<80	<80	<80	<80	<80	<80	<80	<80	<80	-4	-8	-10	-8	-15	----	392	79	<80	<80	<80	<80	<80	<80	<80
4	<80	<80	<80	<80	<80	<80	<80	<80	<80	0	-2	-1	-7	-103	-323	4923	180	<80	<80	<80	<80	<80	<80	<80
5	<80	<80	<80	<80	<80	<80	<80	<80	-2	-453	0	-2	-6	-9	-16	----	<80	<80	<80	<80	<80	<80	<80	<80
6	<80	<80	<80	<80	<80	<80	<80	<80	<80	----	-3	-12	-4	-3	-145	4912	<80	<80	<80	<80	<80	<80	<80	<80
7	<80	<80	<80	<80	<80	<80	<80	<80	<80	-13	0	-11	-3	-9	-69	<80	<80	<80	<80	<80	<80	<80	<80	<80
8	<80	<80	<80	<80	<80	<80	<80	<80	<80	-6	0	-2	-6	-5	-4	<80	<80	<80	<80	<80	<80	<80	<80	<80
9	<80	<80	<80	<80	<80	<80	<80	<80	<80	-201	-6	-36	-32	-2	-4	<80	<80	<80	<80	<80	<80	<80	<80	<80
10	<80	<80	<80	<80	<80	<80	<80	<80	<80	9162	-395	-238	-187	-349	-482	----	458	229	618	654	571	528	306	<80
11	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-4	-5	-3	-14	-5	----	123	<80	<80	<80	<80	<80	<80	<80
12	<80	<80	<80	<80	<80	<80	<80	<80	<80	----	-4	-4	-13	-18	-53	899	<80	<80	<80	<80	<80	<80	<80	<80
13	<80	<80	<80	<80	<80	<80	<80	96	<80	-77	-2	-3	-5	-2	-16	-238	<80	<80	<80	<80	<80	<80	<80	<80
14	<80	<80	<80	<80	<80	<80	<80	<80	<80	-110	-22	-22	-4	-8	-1	438	167	<80	<80	<80	<80	<80	<80	<80
15	<80	<80	<80	<80	<80	<80	<80	<80	<80	0	-11	-2	-8	-2	-1	-211	<80	<80	<80	<80	<80	<80	<80	<80
16	<80	<80	<80	<80	<80	<80	<80	<80	<80	-14	-8	-247	-6	-1	-506	----	1853	1995	4419	3184	2576	2586	2205	1403
17	1019	215	1751	950	193	228	782	1047	++++	----	-815	-643	-414	-618	-851	-781	1220	337	321	353	<80	<80	111	<80
18	<80	<80	<80	<80	<80	<80	<80	<80	<80	-225	-145	-3	0	-7	-45	-37	----	104	<80	<80	<80	<80	<80	<80
19	<80	<80	<80	<80	<80	<80	<80	<80	<80	-59	-1	0	0	-13	-126	329	272	222	111	<80	<80	<80	<80	<80
20	<80	<80	<80	<80	<80	<80	<80	<80	<80	-5	-116	-60	-16	-30	-89	-882	<80	<80	<80	<80	<80	<80	<80	<80
21	<80	<80	<80	<80	<80	<80	<80	<80	<80	-39	----	----	-996	----	----	----	1962	<80	<80	1363	----	1033	334	243
22	111	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
23	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
24	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
25	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
27	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
28	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
29	****	<80	<80	<80	<80	<80	<80	<80	<80	-8	-50	-4	-8	-1	-34	-61	293	<80	<80	<80	<80	<80	<80	<80
30	<80	<80	<80	<80	<80	<80	<80	<80	101	-30	-2	0	-5	0	-3	-26	<80	<80	<80	<80	<80	<80	<80	<80
31	<80	<80	<80	<80	<80	<80	97	114	206	-74	-4	-2	-1	-5	-11	0	-186	<80	2738	971	774	246	749	<80

PERCENT VALID HOURS FOR JAN, 1996 552*100/ 744= 74.2%

THREE HIGHEST VALUES FOR JAN, 1996 XXXX(DD,HH) = ++++(17, 8) 9162(10, 9) 4923(4,15) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 FEB, 1996

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	-106	-4	0	0	0	-4	-26	-70	----	700	<80	<80	<80	<80	<80	<80
2	<80	<80	<80	<80	<80	<80	<80	<80	<80	-77	-27	-1	-15	-14	-77	-188	----	106	338	<80	<80	<80	<80	<80
3	<80	<80	<80	<80	<80	<80	<80	<80	<80	----	-596	-47	-219	-2	-2	-303	<80	<80	<80	<80	<80	<80	<80	<80
4	<80	<80	<80	<80	<80	<80	<80	<80	<80	-51	0	0	0	0	-10	-17	-10	<80	<80	<80	<80	<80	<80	<80
5	<80	<80	<80	<80	<80	<80	<80	<80	++++	-52	-1	-2	-2	-43	-129	-59	137	<80	<80	<80	<80	<80	<80	<80
6	<80	<80	<80	<80	<80	<80	<80	<80	-2	-11	-1	-1	-2	-1	-16	-25	++++	<80	<80	<80	<80	<80	<80	<80
7	<80	<80	<80	<80	<80	<80	<80	<80	<80	0	-2	-21	-15	-2	-9	<80	<80	<80	<80	<80	<80	<80	<80	<80
8	<80	<80	<80	<80	<80	<80	<80	<80	<80	-2	-3	0	-2	0	-1	-261	<80	<80	<80	<80	<80	<80	<80	<80
9	<80	<80	<80	<80	<80	<80	<80	<80	<80	-69	-190	-177	-1	-26	-20	-34	<80	<80	<80	<80	<80	<80	<80	<80
10	<80	<80	<80	<80	<80	<80	<80	<80	180	-144	0	-25	-18	-2	-43	-158	1035	<80	<80	<80	<80	<80	<80	<80
11	<80	<80	<80	<80	<80	<80	<80	<80	<80	795	-11	-16	-27	-42	-89	-231	----	352	<80	<80	<80	<80	<80	<80
12	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-14	-13	-173	-159	-232	-364	9590	339	<80	<80	<80	<80	<80	<80
13	<80	<80	<80	<80	<80	<80	<80	<80	<80	-11	-2	-4	-6	-10	-4	-12	-95	<80	<80	<80	<80	<80	<80	209
14	<80	<80	<80	<80	<80	<80	<80	<80	462	-319	-3	0	-7	-6	-11	-58	314	<80	<80	<80	<80	<80	<80	<80
15	<80	<80	<80	<80	<80	<80	189	<80	-2	-134	-21	-15	-3	-9	-18	-160	1170	172	<80	<80	<80	<80	<80	<80
16	<80	<80	<80	<80	<80	<80	<80	<80	<80	-389	-31	-2	-37	-49	-91	-138	-823	<80	<80	<80	<80	<80	<80	<80
17	<80	<80	<80	<80	<80	<80	<80	<80	2975	-42	-241	-1	-5	-60	-266	-593	519	<80	<80	<80	<80	<80	<80	<80
18	<80	<80	<80	<80	<80	<80	<80	<80	<80	-12	-101	-212	-5	0	-76	-123	----	260	<80	<80	<80	<80	<80	<80
19	<80	<80	<80	<80	<80	<80	<80	<80	<80	-210	-187	-995	-614	----	----	----	----	++++	++++	9685	++++	++++	6981	9038
20	++++	++++	++++	++++	7237	++++	++++	----	----	----	----	----	----	----	----	----	619	3109	8159	2533	1149	1194	3379	414	<80
21	672	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
22	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
23	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
24	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
25	****	****	****	****	****	****	****	****	****	****	----	-763	-621	-353	-222	-136	-29	-26	----	----	-507	-728	----	1921	257
26	1281	371	2297	85	380	<80	<80	<80	<80	1067	-405	-150	-246	-269	-306	-311	-391	----	2595	300	<80	<80	<80	<80
27	<80	<80	<80	<80	<80	<80	<80	-236	-115	-434	-3	-2	-39	-24	-27	-183	-351	-285	-147	-35	-74	----	-60	----
28	++++	++++	++++	++++	5385	****	6372	4497	226	<80	<80	<80	-49	-2	-32	0	-14	-77	<80	<80	<80	<80	<80	<80
29	<80	<80	<80	<80	<80	<80	<80	310	----	-130	-17	-8	0	-11	-4	-4	-3	-48	<80	<80	<80	<80	<80	<80

PERCENT VALID HOURS FOR FEB, 1996 591*100/ 696= 84.9%

THREE HIGHEST VALUES FOR FEB, 1996 XXXX(DD,HH) = ++++(5, 8) ++++(19,18) ++++(28, 0) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 MAR, 1996

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	-40	-17	-2	0	-61	-159	-253	-939	278	<80	<80	<80	<80	<80	<80
2	<80	<80	<80	<80	<80	<80	<80	<80	<80	-10	-3	-19	-13	-5	-1	-12	-68	<80	<80	<80	<80	<80	<80	<80
3	<80	<80	<80	<80	<80	<80	<80	<80	-934	-33	-1	----	-38	-41	-220	-247	1027	<80	<80	<80	<80	<80	<80	<80
4	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
5	****	****	****	****	****	****	****	****	****	-691	-557	-494	-506	-798	-868	----	----	7177	2629	++++	----	++++	++++	1754
6	<80	<80	476	<80	<80	<80	<80	<80	-69	-225	-94	-30	-37	-51	-26	-25	-189	116	<80	<80	<80	<80	<80	<80
7	<80	<80	<80	<80	<80	<80	<80	<80	-367	-13	-224	-18	0	-2	0	-5	-48	<80	<80	<80	<80	<80	<80	<80
8	<80	<80	<80	<80	<80	<80	<80	<80	----	-1	-7	-9	0	-27	-116	-104	-252	348	<80	<80	<80	<80	<80	<80
9	<80	<80	<80	<80	<80	<80	<80	<80	<80	-173	-26	-18	-42	-10	-133	-170	720	<80	<80	<80	<80	<80	<80	<80
10	<80	<80	<80	<80	<80	<80	<80	<80	-10	-10	0	-119	-298	-286	-305	-443	-587	417	198	<80	<80	<80	<80	<80
11	<80	<80	<80	<80	<80	<80	<80	<80	-72	-69	-7	-128	-166	-165	-200	-261	-442	1843	731	333	<80	<80	<80	<80
12	<80	<80	<80	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	<80	<80	<80	<80	233	-515	-11	-12	-6	-14	-1	-4	-11	-60	-130	<80	<80	<80	<80	<80	448
15	<80	<80	<80	<80	<80	<80	<80	745	-322	-73	-37	-10	-17	-35	-20	-52	-101	111	<80	<80	<80	<80	<80	<80
16	<80	<80	<80	<80	<80	<80	<80	<80	-36	-28	-359	-543	-190	-214	-136	-127	-205	311	<80	275	<80	<80	<80	<80
17	<80	<80	<80	<80	<80	<80	<80	221	-29	-4	-8	-19	-37	-65	-104	-30	-121	482	<80	<80	<80	<80	132	119
18	<80	<80	<80	<80	<80	<80	<80	<80	-338	-68	-7	-19	-9	-4	-1	-4	-18	-74	146	<80	<80	<80	<80	<80
19	<80	<80	<80	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
21	****	****	****	<80	<80	<80	265	<80	-8	-11	0	0	-10	-95	-155	-193	-640	1195	145	<80	<80	<80	<80	<80
22	<80	<80	<80	<80	<80	<80	<80	618	-289	-2	-260	-284	-358	-338	-342	-659	----	----	3408	3105	227	690	799	1817
23	1630	829	3424	<80	<80	150	94	-288	-164	-88	-112	-203	-383	-345	-245	-254	-462	----	1789	439	286	83	<80	<80
24	<80	<80	<80	<80	<80	<80	<80	398	-192	-9	-1	-10	-73	-93	-292	-400	-384	----	927	327	146	<80	<80	<80
25	<80	<80	<80	<80	<80	<80	<80	<80	-35	0	-2	0	-8	-33	-45	-86	-64	-810	----	----	----	----	----	3930
26	1571	1432	1332	802	873	1038	886	-584	-185	-73	-44	-27	0	-4	-6	-18	-24	-975	318	<80	<80	<80	<80	<80
27	<80	<80	<80	<80	<80	<80	<80	-450	-12	-1	-7	-33	-27	-50	-139	-202	-570	++++	<80	<80	<80	<80	<80	<80
28	<80	<80	<80	<80	<80	<80	<80	<80	-43	-594	-536	-661	-496	-695	-925	----	----	----	----	----	----	----	-850	++++
29	529	<80	<80	<80	<80	<80	301	-75	-15	-65	-26	-16	-2	-1	-1	-16	-124	----	97	<80	<80	<80	<80	<80
30	<80	<80	<80	<80	<80	<80	<80	-714	0	-49	0	-1	-7	-36	-87	-106	-311	----	268	142	<80	<80	<80	<80
31	<80	<80	<80	<80	<80	<80	<80	-667	-4	-3	-17	-3	-1	-20	-112	-257	-697	++++	309	<80	<80	<80	<80	<80

PERCENT VALID HOURS FOR MAR, 1996 615*100/ 744= 82.7%

THREE HIGHEST VALUES FOR MAR, 1996 XXXX(DD,HH) = ++++(31,17) ++++(28,23) ++++(5,19) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 APR, 1996

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	-9	0	-24	-235	-428	-592	-601	-603	-834	----	----	----	----	----	1757	1702	1833
2	1390	543	770	377	98	<80	<80	-225	-8	-18	-24	-90	-61	-55	-31	-16	-146	-456	373	<80	<80	<80	<80	<80
3	<80	<80	<80	<80	<80	<80	<80	-120	-3	0	-4	0	-6	-23	-54	-92	-99	-327	1201	371	<80	<80	<80	<80
4	<80	256	287	<80	205	249	2127	-489	-323	-215	-158	-143	-242	-233	-279	-263	-395	----	298	220	258	303	554	228
5	241	426	607	481	383	465	1043	-867	-427	-376	-258	-179	-101	-53	-59	-63	-201	++++	<80	<80	<80	<80	<80	<80
6	<80	<80	<80	<80	<80	<80	<80	----	-18	-9	0	-1	-19	-3	0	-17	-10	1391	<80	<80	<80	<80	<80	<80
7	<80	<80	<80	<80	<80	<80	<80	-199	-8	-58	-5	0	-2	-4	-7	-7	-147	----	156	<80	<80	<80	<80	<80
8	<80	<80	<80	<80	<80	<80	<80	-190	-15	-43	-5	-20	-99	-146	-182	-280	-685	----	357	<80	<80	<80	<80	<80
9	<80	<80	<80	<80	<80	<80	<80	0	-1	-10	-57	-310	-344	-489	-660	-581	-712	----	792	499	<80	<80	<80	<80
10	<80	<80	<80	<80	<80	<80	<80	-142	0	-5	-22	-37	-102	-154	-269	-341	-673	----	448	220	164	218	238	<80
11	<80	<80	1392	100	<80	<80	3741	-219	-115	-121	-80	-30	-15	-21	-15	-38	-212	-790	473	<80	<80	<80	<80	<80
12	<80	<80	447	<80	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	<80	<80	<80	<80	<80	-10	-73	-29	-7	-3	-19	-18	-26	-8	-473	276	<80	<80	<80	172	<80
14	422	395	129	<80	<80	<80	<80	-3	-18	-58	-74	-89	-23	-3	-8	-32	-46	-66	178	<80	<80	<80	<80	<80
15	<80	<80	<80	<80	<80	<80	<80	-31	-18	-116	-23	-1	-6	-23	-61	-239	-506	----	726	<80	<80	<80	<80	726
16	687	1481	440	<80	131	338	----	----	----	----	----	----	-521	-379	-439	-850	----	----	++++	3722	7432	7594	++++	5551
17	1584	1537	974	603	440	760	----	-870	-241	-198	-209	-141	-221	-231	-250	-344	----	----	++++	9110	++++	++++	9395	++++
18	++++	++++	++++	++++	8913	++++	----	----	-530	-444	-400	-187	-158	-131	-148	-127	-172	-644	1698	621	534	636	302	92
19	<80	<80	<80	<80	<80	<80	<80	-27	-139	-1	-1	-1	0	-13	-28	-154	-235	-247	710	95	<80	<80	<80	<80
20	<80	<80	<80	<80	<80	<80	453	-156	-145	-94	-87	-39	-6	-13	-15	-3	-12	-65	-826	<80	746	<80	<80	<80
21	<80	<80	<80	<80	<80	<80	<80	-3	-1	-2	-4	-3	-4	-45	-64	-59	-55	-40	<80	<80	<80	<80	<80	<80
22	<80	<80	<80	<80	<80	<80	825	-763	-3	-7	-1	-18	-26	-25	-11	-29	-39	-413	185	<80	<80	<80	<80	<80
23	<80	<80	<80	<80	<80	<80	<80	-3	-14	0	-2	-5	-26	-51	-97	-75	-122	----	<80	<80	<80	<80	<80	<80
24	<80	<80	<80	<80	<80	<80	<80	-54	-16	-2	-61	-128	-214	-206	-367	-472	-838	----	723	489	833	422	<80	<80
25	<80	<80	<80	<80	<80	<80	733	-175	-97	-87	-85	-62	-44	-46	-53	-148	-174	-499	220	<80	<80	<80	<80	<80
26	<80	<80	<80	<80	<80	<80	<80	-2	-3	-3	-3	0	-7	-76	-238	-240	-357	----	301	<80	<80	<80	<80	<80
27	<80	<80	<80	<80	<80	<80	<80	-6	-21	-86	-24	-11	-22	-69	-165	-306	-339	----	1080	269	411	1314	566	1283
28	1831	1322	1241	502	364	881	----	-600	-528	-386	-395	-269	-211	-172	-211	-271	-350	-825	4360	339	157	199	286	140
29	<80	<80	<80	<80	<80	<80	----	-55	-7	-20	-3	-1	-1	0	-1	-2	-2	-29	<80	<80	<80	<80	<80	<80
30	<80	<80	<80	<80	<80	<80	264	-248	-12	0	-3	-2	-9	-4	-25	-146	-339	----	430	197	319	537	280	<80

PERCENT VALID HOURS FOR APR, 1996 697*100/ 720= 96.8%

THREE HIGHEST VALUES FOR APR, 1996 XXXX(DD,HH) = ++++(5,17) ++++(17,18) ++++(18, 3) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 — MAY, 1996

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	-1	-236	-3	-12	-10	-14	-47	-80	-61	-182	----	<80	<80	98	<80	<80	<80
2	<80	<80	<80	<80	<80	<80	<80	-79	-27	-3	-4	-84	-109	-130	-206	-220	-430	-802	198	<80	<80	<80	<80	<80
3	<80	<80	<80	<80	<80	<80	<80	-75	0	-1	0	-48	-82	-77	-148	-165	-253	----	390	<80	<80	<80	<80	<80
4	<80	<80	<80	<80	<80	<80	<80	-999	-9	-11	-1	0	-5	-54	-71	-113	-257	----	178	106	<80	<80	<80	<80
5	<80	<80	<80	<80	<80	<80	<80	-6	-1	-3	-17	-31	-59	-97	-140	-148	-193	-601	182	<80	<80	<80	<80	<80
6	<80	<80	<80	<80	<80	<80	<80	-111	-14	-1	-3	-1	-72	-117	-190	-233	-429	-616	942	<80	<80	<80	<80	<80
7	<80	<80	<80	<80	<80	<80	<80	391	-166	-88	-59	-47	-56	-78	-81	-156	-240	----	815	<80	<80	<80	<80	<80
8	<80	<80	<80	<80	<80	<80	114	-606	-41	-17	-29	-28	-56	-94	-121	-217	-356	-928	7174	524	361	<80	469	642
9	2110	849	<80	173	275	208	-385	-32	-2	0	-18	-23	-15	-2	-36	-14	-4	-276	4364	330	<80	<80	<80	<80
10	<80	<80	<80	<80	<80	<80	3336	-185	0	-2	-2	-6	-13	-3	-14	-19	-55	-349	278	<80	<80	<80	<80	<80
11	<80	<80	363	<80	<80	<80	313	-2	-107	0	0	-1	-3	-1	-2	-38	-69	----	124	<80	<80	<80	<80	<80
12	<80	<80	<80	<80	<80	<80	<80	-340	-1	0	-4	-2	-27	-33	-35	-77	-270	----	484	<80	<80	<80	<80	<80
13	<80	<80	<80	<80	<80	<80	<80	-20	-3	-3	-68	-99	-102	-141	-186	-240	-356	----	687	96	<80	<80	379	<80
14	<80	<80	<80	<80	<80	<80	<80	-257	-91	-53	-44	-44	-42	-110	-131	-241	-384	-865	----	2086	4311	1470	397	302
15	<80	148	<80	<80	<80	<80	-9	-29	-121	-211	-154	-197	-404	-605	-583	-723	----	----	----	----	----	----	----	----
16	----	----	++++	++++	7919	++++	----	----	-922	-972	-856	-643	-482	-808	-926	-774	----	----	----	----	3584	614	1854	1823
17	<80	<80	<80	<80	<80	567	-316	-22	-36	-44	-24	-9	-94	-233	-330	-377	-573	----	2860	1484	624	436	121	<80
18	<80	<80	<80	85	355	861	----	-691	-798	-518	-452	-427	-491	-443	-332	-586	----	----	++++	1941	1951	<80	<80	<80
19	<80	<80	<80	<80	<80	<80	<80	-24	-80	-53	-51	-69	-101	-100	-92	-142	-131	-310	1256	185	266	113	<80	<80
20	<80	<80	<80	191	451	467	----	-208	-73	-24	-11	0	-1	-5	-7	-4	0	-124	++++	330	98	<80	<80	<80
21	<80	<80	<80	<80	<80	105	<80	-154	-89	0	-12	-43	-125	-249	-318	-263	-249	-293	1631	<80	<80	465	1184	239
22	1102	1325	464	<80	<80	<80	<80	-176	-103	-65	-52	-64	-65	-95	-131	-182	-289	-648	1430	1250	664	856	1073	1608
23	1298	149	230	<80	137	129	-194	-149	-76	-24	-7	-7	-8	-36	-51	-237	-896	----	-511	----	----	----	----	----
24	----	----	----	----	----	----	----	----	----	-344	-779	-965	-744	-300	-172	-6	-64	-191	-256	-302	-208	----	897	721
25	<80	-31	<80	<80	<80	640	----	-300	-121	-47	-39	-87	-5	-4	-53	-53	-204	-194	-104	<80	<80	154	-467	----
26	-169	-718	-499	115	312	-346	-78	-7	-3	-6	-1	-6	-6	-25	-40	-62	-82	-271	-693	----	<80	<80	<80	<80
27	<80	<80	<80	<80	<80	<80	153	-7	-47	-673	-439	-237	-166	-294	-245	-185	-437	-719	-995	-796	-400	<80	<80	<80
28	<80	<80	<80	<80	<80	<80	----	-85	-5	0	0	-5	-2	-47	-20	-51	-165	-241	1244	<80	<80	<80	<80	<80
29	<80	<80	<80	<80	<80	<80	-414	-12	-254	-340	-355	-306	-311	-216	-222	-240	-315	-502	2706	385	<80	<80	<80	<80
30	<80	<80	<80	<80	<80	<80	<80	-11	-1	-1	-5	0	0	-65	-75	-68	-50	-107	871	90	<80	<80	<80	<80
31	<80	<80	<80	<80	<80	<80	<80	-74	-1	-1	-2	-1	-33	-29	-52	-69	-98	-223	933	<80	<80	<80	<80	<80

PERCENT VALID HOURS FOR MAY, 1996 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR MAY, 1996 XXXX(DD,HH) = ++++(18,18) ++++(16, 2) ++++(20,18) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 — JUNE, 1996

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	-49	0	-6	-2	-6	-2	-4	-6	-5	-11	-8	1191	<80	<80	<80	<80	<80
2	<80	<80	<80	<80	<80	<80	<80	-162	-1	0	-12	-32	-9	-9	-19	0	0	0	<80	<80	<80	<80	<80	<80
3	<80	<80	<80	<80	<80	<80	<80	-6	0	0	0	0	-46	-17	-15	-10	-15	-143	431	<80	<80	<80	<80	<80
4	<80	<80	<80	<80	<80	<80	682	-5	-1	-1	-2	-58	-98	-94	-119	-170	-150	-622	543	<80	<80	<80	<80	<80
5	<80	<80	<80	<80	<80	<80	<80	-8	-6	-1	-8	-38	-83	-107	-113	-85	-101	-207	173	<80	<80	<80	<80	<80
6	<80	<80	<80	<80	<80	<80	<80	-6	-8	0	-1	0	-13	-18	-24	-26	-39	-123	----	751	<80	<80	<80	<80
7	<80	<80	<80	<80	<80	<80	1408	-61	-9	0	0	-35	-49	-128	-141	-245	-368	-688	3556	267	209	<80	<80	<80
8	<80	<80	<80	<80	<80	<80	-73	-5	0	-11	-16	-132	-323	-178	-133	-124	-134	-236	820	<80	<80	<80	<80	<80
9	<80	<80	<80	<80	<80	<80	-41	-10	-8	0	-27	-46	-31	-23	-35	-37	-76	-624	383	<80	535	<80	<80	<80
10	<80	<80	<80	<80	<80	<80	247	-4	-1	-1	-23	-49	-60	-85	-111	-87	-187	-303	2060	198	<80	<80	<80	<80
11	<80	<80	<80	<80	<80	<80	<80	-1	-6	-23	-28	-25	-54	-113	-152	-206	-222	-428	6348	111	<80	<80	<80	<80
12	<80	<80	<80	<80	<80	<80	----	-1	-1	-2	-19	-39	-85	-98	-246	-447	-585	----	++++	381	130	<80	<80	<80
13	<80	<80	<80	<80	<80	<80	1090	-55	-3	-2	0	-5	-35	-36	-101	-295	-467	----	++++	332	195	<80	<80	<80
14	<80	<80	<80	<80	<80	<80	-17	-4	-1	-3	-5	0	-33	-58	-77	-157	-276	-599	2055	247	<80	<80	<80	<80
15	<80	<80	<80	<80	<80	<80	1119	-14	-4	-2	-18	-81	-105	-170	-241	-284	-389	-832	7119	538	<80	<80	<80	<80
16	<80	<80	<80	<80	<80	<80	-193	-54	0	-5	-75	-414	-323	-390	-476	-481	-471	-708	++++	180	<80	93	<80	<80
17	<80	<80	<80	<80	<80	<80	<80	-41	-120	-491	-399	-251	-230	-191	-224	-256	-427	-645	5973	316	<80	148	<80	<80
18	<80	<80	<80	<80	<80	<80	<80	-60	-3	-11	-35	-36	-72	-115	-276	-195	-384	-667	----	<80	<80	<80	<80	<80
19	<80	<80	<80	<80	<80	<80	<80	0	-2	-5	-15	-35	-206	-333	-232	-271	-208	----	++++	713	188	525	1417	894
20	886	715	552	<80	<80	<80	<80	-833	-997	-362	-320	-268	-482	-311	-364	-325	-484	----	++++	118	<80	<80	<80	188
21	<80	<80	<80	<80	<80	<80	<80	-22	-172	-488	-630	-359	-200	-302	-341	-366	-531	-981	----	1040	555	637	314	90
22	<80	<80	<80	<80	<80	<80	-201	-29	-38	-1	0	0	0	-27	-14	-70	-130	-289	----	305	<80	<80	<80	<80
23	<80	<80	<80	<80	<80	<80	-27	-43	-48	-4	-11	-54	-56	-96	-166	-257	-500	----	++++	661	470	<80	<80	<80
24	<80	<80	<80	<80	<80	<80	<80	-455	-273	-395	-471	-418	-304	-325	-401	-645	-946	----	----	1557	903	1326	2777	167
25	<80	<80	<80	<80	115	195	-253	-67	-310	-263	-265	-370	-263	-399	-679	-708	-783	-668	----	157	312	150	563	646
26	----	263	194	8069	----	----	1797	3124	-919	-288	-175	-271	-906	-847	-438	-896	-735	----	++++	403	269	331	319	<80
27	<80	<80	<80	<80	<80	<80	-987	-72	-79	0	-1	-36	-55	-42	-71	-119	-153	-234	----	155	<80	<80	<80	<80
28	<80	<80	<80	<80	<80	<80	-195	----	-4	0	-4	-13	-8	0	-5	-12	-4	-13	-69	<80	<80	<80	<80	<80
29	<80	<80	<80	<80	<80	<80	----	-189	-3	-1	-1	0	-3	-6	-7	-11	-4	-1	-21	<80	<80	<80	<80	<80
30	<80	<80	<80	<80	<80	<80	475	-16	-28	0	0	-6	-2	-6	-42	-63	-106	-226	396	<80	<80	<80	<80	<80

PERCENT VALID HOURS FOR JUNE, 1996 720*100/ 720=100.0%

THREE HIGHEST VALUES FOR JUNE, 1996 XXXX(DD,HH) = ++++(20,18) ++++(23,18) ++++(12,18) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 — JULY, 1996

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	-55	-3	0	-2	-7	-45	-51	-53	-92	-113	-276	1339	175	<80	<80	<80	<80
2	<80	<80	<80	<80	<80	<80	<80	-2	-1	-1	-4	-62	-44	-56	-91	-117	-222	-355	----	536	<80	<80	<80	<80
3	<80	<80	<80	<80	<80	<80	<80	-24	-63	-230	-194	-237	-229	-351	-276	-310	-374	-653	----	1785	789	7385	290	<80
4	<80	<80	<80	<80	<80	<80	<80	-1	0	-15	-95	-177	-197	-202	-210	-195	-299	-509	----	134	<80	<80	<80	<80
5	<80	<80	<80	<80	<80	<80	-273	-55	-3	-10	-12	-15	-43	-85	-105	-154	-238	-485	----	262	121	<80	<80	<80
6	<80	<80	<80	<80	<80	<80	<80	-31	-10	-1	-1	-36	-51	-50	-49	-74	-214	-235	2236	102	<80	<80	<80	<80
7	<80	<80	<80	<80	<80	<80	<80	-32	-2	0	-54	-90	-103	-92	-107	-106	-165	-523	----	202	<80	<80	<80	<80
8	<80	<80	<80	<80	<80	<80	<80	-7	0	-1	-42	-75	-107	-188	-247	-269	-475	-751	----	595	<80	<80	<80	<80
9	3301	1876	1417	87	594	<80	-35	-9	-13	-15	-7	-54	-79	-97	-75	-122	-147	-320	----	261	91	125	<80	<80
10	<80	<80	<80	<80	<80	<80	-43	-13	-1	0	0	-2	-217	-51	-78	-154	-310	-228	-669	-806	----	887	<80	738
11	101	<80	<80	<80	<80	<80	-16	-4	-1	-2	-30	-1	-4	-37	-188	-219	-95	-412	-492	----	----	-804	----	976
12	<80	<80	<80	<80	<80	<80	-26	-8	0	0	-8	0	-5	-48	-142	-109	-493	-450	-378	237	<80	<80	<80	<80
13	<80	<80	<80	<80	<80	<80	-675	-12	-5	-8	-2	-3	-1	-2	-32	-85	-78	-20	-145	2956	222	<80	<80	<80
14	<80	<80	<80	<80	<80	<80	-198	-16	0	0	0	-16	-162	-322	-303	-476	-265	-62	-11	<80	202	722	----	2124
15	<80	<80	<80	<80	<80	<80	-1	0	-7	0	-19	-70	-137	-126	-142	-131	-199	-381	----	----	----	----	795	463
16	779	<80	<80	<80	<80	<80	<80	-4	-364	-495	-447	-293	-299	-329	-427	-472	-705	----	----	1731	680	<80	<80	<80
17	<80	302	<80	<80	<80	<80	<80	-61	-74	-140	-161	-277	-182	-247	-345	-460	-481	-681	----	276	<80	<80	<80	<80
18	<80	<80	<80	<80	<80	<80	<80	-4	-2	-3	-331	-311	-199	-181	-202	-308	-449	----	4974	457	<80	<80	<80	<80
19	<80	<80	<80	<80	<80	<80	<80	-84	-18	-2	-119	-140	-208	-144	-109	-133	-155	-308	1848	100	<80	<80	<80	<80
20	<80	<80	<80	<80	<80	<80	<80	-291	-2	-1	0	-3	-15	-53	-62	-90	-162	-268	906	<80	<80	<80	<80	<80
21	<80	<80	<80	<80	<80	<80	<80	-3	-2	-2	-4	-16	-43	-43	-38	-62	-105	-251	132	<80	<80	<80	<80	<80
22	<80	<80	<80	<80	<80	<80	<80	0	-3	-2	-3	0	-4	-46	-50	-83	-113	-252	432	<80	<80	<80	<80	<80
23	<80	<80	<80	<80	<80	<80	-38	-2	0	-1	-1	-1	-25	-65	-72	-86	-462	----	741	85	<80	<80	145	<80
24	<80	<80	<80	<80	<80	<80	<80	-9	-36	-1	-1	-22	-71	-84	-127	-100	-158	-420	787	<80	<80	<80	<80	<80
25	<80	<80	<80	<80	<80	<80	<80	-5	0	-6	-69	-129	-99	-92	-74	-118	-164	-228	332	<80	<80	<80	<80	<80
26	<80	<80	<80	<80	<80	<80	144	-46	-52	-35	-40	-23	-14	-55	-67	-142	-224	-365	----	599	<80	----	----	----
27	-157	1332	722	1523	<80	<80	-61	-13	-24	-8	-34	-51	-55	-29	-20	-127	-99	-245	-618	----	1372	902	439	<80
28	<80	<80	<80	<80	<80	<80	<80	-6	0	-43	-140	-106	-89	-88	-94	-73	-215	-248	-939	2323	<80	----	2812	468
29	<80	<80	<80	<80	<80	<80	-8	-12	-5	0	0	-1	-3	0	-89	-194	-117	-73	102	<80	<80	<80	<80	<80
30	<80	<80	<80	<80	<80	<80	<80	-27	0	0	0	-3	-37	-58	-38	-59	-79	-146	402	82	<80	<80	<80	<80
31	<80	<80	<80	<80	<80	<80	<80	0	-5	-1	-6	-24	-86	-66	-87	-79	-102	-271	----	625	<80	<80	<80	<80

PERCENT VALID HOURS FOR JULY, 1996 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR JULY, 1996 XXXX(DD,HH) = 7385(3,21) 4974(18,18) 3301(9, 0) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 AUG, 1996

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	-6	-2	-3	-97	-182	-219	-210	-270	-234	-428	-824	1350	<80	<80	175	<80	<80
2	<80	<80	<80	<80	<80	<80	<80	<80	-6	-548	-481	-352	-366	-418	-342	-379	-635	----	3736	625	687	388	278	<80
3	<80	<80	<80	<80	<80	<80	<80	-155	-433	-424	-444	-361	-334	-320	-346	-414	-540	----	4604	660	213	488	646	111
4	<80	<80	<80	<80	<80	<80	<80	-5	-12	-2	-1	-13	-7	-34	-80	-119	-232	-678	2703	257	<80	<80	<80	<80
5	<80	<80	<80	<80	<80	<80	113	-115	-2	-4	-144	-295	-322	-285	-336	-451	-682	----	++++	704	477	395	269	209
6	<80	<80	<80	<80	<80	<80	<80	-41	-2	0	0	0	0	-6	-3	-11	-45	-132	866	162	<80	<80	<80	<80
7	<80	<80	<80	<80	****	****	****	****	****	****	****	****	****	****	****	****	-11	-9	<80	<80	<80	<80	<80	<80
8	<80	<80	<80	<80	<80	<80	<80	0	0	-3	-4	0	0	-10	-13	-23	-55	-115	126	<80	<80	<80	<80	<80
9	<80	<80	<80	<80	<80	<80	<80	-18	-6	-3	-1	0	0	-7	-1	-28	-16	-120	<80	<80	<80	<80	<80	<80
10	<80	<80	<80	<80	<80	<80	-242	-7	-7	0	-1	-1	-1	-6	-27	-31	-126	-145	115	187	405	<80	<80	<80
11	<80	<80	<80	<80	<80	<80	210	-44	-1	-5	0	0	-1	-9	-99	-104	-45	-497	5548	382	<80	<80	<80	<80
12	<80	<80	<80	<80	<80	<80	<80	-3	-4	0	-127	-201	----	-295	-620	----	----	----	1344	202	<80	<80	<80	<80
13	<80	<80	<80	<80	<80	<80	<80	-83	-3	-2	0	0	-13	-20	-79	-30	-49	-42	----	380	<80	<80	<80	<80
14	<80	<80	<80	<80	<80	<80	<80	-39	-3	0	-2	-20	-64	-37	-122	-190	-242	-532	323	<80	<80	<80	<80	<80
15	<80	<80	<80	<80	<80	<80	<80	-15	-3	0	-12	-2	-13	-38	-43	-78	-155	-412	1505	239	165	<80	<80	<80
16	<80	<80	397	<80	<80	<80	87	<80	-18	0	-1	-29	-125	-189	-133	----	826	503	162	<80	<80	<80	<80	<80
17	<80	<80	<80	<80	<80	<80	<80	-8	-11	0	-1	-31	-86	-117	-108	-183	-497	----	1098	726	540	173	249	<80
18	<80	<80	<80	<80	<80	<80	<80	-9	-3	-32	-101	-234	-255	-311	-289	-246	-421	----	450	<80	<80	<80	<80	<80
19	<80	<80	<80	<80	<80	<80	<80	-7	-18	-8	-53	-279	-304	-431	-457	-430	-515	----	678	229	<80	<80	<80	<80
20	<80	<80	<80	<80	<80	<80	<80	-198	-18	-4	-20	-309	-248	-271	-182	-372	-553	----	279	<80	<80	<80	<80	<80
21	<80	<80	<80	<80	<80	<80	<80	-434	-6	0	0	0	-24	-39	-70	-73	-124	-572	<80	<80	<80	<80	<80	<80
22	<80	<80	<80	<80	<80	<80	<80	----	-283	-13	0	-1	-8	-19	-36	-19	-91	-931	334	<80	<80	<80	<80	<80
23	<80	<80	<80	<80	<80	<80	<80	-160	-51	0	0	-1	-7	-16	-39	-3	-55	-208	-690	----	----	----	342	<80
24	<80	<80	<80	<80	<80	<80	<80	-401	-8	-3	-12	-24	-22	-16	-23	-59	-76	----	3871	608	<80	<80	<80	<80
25	<80	<80	<80	<80	<80	<80	<80	-396	-9	-2	-1	0	-1	-11	-25	-36	-18	-135	155	<80	568	<80	<80	<80
26	<80	<80	<80	<80	<80	<80	<80	<80	-18	0	-68	-257	-191	-235	-347	-315	-395	----	760	<80	<80	325	256	<80
27	<80	<80	<80	<80	<80	<80	<80	<80	-211	-600	-414	-315	-270	-291	-275	-376	-444	----	118	<80	<80	<80	<80	<80
28	<80	<80	<80	<80	<80	<80	<80	-5	-125	-3	-6	-6	-18	-5	-15	-36	-32	-509	88	<80	<80	<80	<80	<80
29	<80	<80	<80	<80	<80	<80	<80	472	-107	0	0	-2	-1	-11	-17	-51	-162	3174	171	<80	<80	<80	<80	<80
30	<80	<80	<80	<80	<80	<80	<80	<80	-6	-3	-2	-1	-4	-19	-49	-86	-93	1292	140	<80	<80	<80	<80	<80
31	<80	<80	<80	<80	<80	<80	<80	-401	-92	-15	-1	-25	-84	-85	-100	-170	-385	++++	<80	<80	<80	<80	<80	<80

PERCENT VALID HOURS FOR AUG, 1996 732*100/ 744= 98.4%

THREE HIGHEST VALUES FOR AUG, 1996 XXXX(DD,HH) = ++++(31,17) ++++(5,18) 5548(11,18) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 — SEPT, 1996

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	101	-1	-7	-2	-30	-31	-18	-54	-153	-384	----	157	<80	<80	<80	<80	<80
2	<80	<80	<80	<80	<80	<80	<80	-282	-20	-6	-18	-51	-36	-55	-104	-149	-298	----	127	<80	<80	<80	<80	<80
3	<80	<80	<80	<80	<80	<80	<80	<80	-1	-6	-224	-336	-215	-241	-264	-432	-737	----	373	165	196	109	<80	<80
4	<80	<80	<80	<80	124	221	<80	362	-616	-381	-326	-438	-572	-485	-610	-677	----	----	6087	4338	1914	1061	1506	1969
5	861	<80	102	<80	<80	<80	<80	-121	-269	-182	-133	-115	-140	-236	-246	-353	-420	----	1126	380	<80	<80	<80	<80
6	<80	<80	120	<80	<80	<80	<80	-75	-37	0	-6	-16	-1	-16	-48	-109	-171	-612	157	<80	<80	<80	<80	<80
7	<80	<80	<80	<80	<80	<80	<80	-479	-2	-3	-6	-3	-67	-56	-64	-152	-227	----	273	<80	<80	<80	<80	<80
8	<80	<80	<80	<80	448	<80	<80	-37	-133	-1	0	-2	-3	-40	-25	-22	-94	-284	----	<80	<80	<80	<80	<80
9	<80	<80	<80	<80	<80	<80	<80	-538	-3	0	-2	0	-18	-20	-39	-56	-297	-454	448	<80	<80	<80	<80	<80
10	<80	<80	<80	<80	<80	<80	<80	-374	-22	-5	-6	-5	-11	-25	-37	-49	-112	-734	136	829	<80	<80	++++	----
11	<80	<80	139	<80	137	<80	<80	-112	-6	-2	-4	-9	-8	-31	-49	-88	-134	----	696	175	<80	<80	<80	<80
12	<80	<80	<80	<80	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	<80	106	684	3222	----	----	-928	-770	-713	-778	-663	-695	-738	----	----	850	<80	<80	<80	<80	<80
14	<80	<80	<80	<80	<80	<80	<80	-211	-56	-5	-5	-29	-11	-9	-15	-15	-182	----	339	225	<80	<80	<80	<80
15	<80	<80	<80	<80	<80	<80	<80	-211	-202	-6	-41	-41	-269	-654	-507	-652	----	----	3401	1291	580	249	147	1214
16	992	784	883	277	<80	<80	<80	----	-88	-59	-32	-36	-129	-146	-221	-253	-293	5395	488	133	626	<80	191	119
17	273	97	171	98	<80	<80	<80	-5	-11	-32	-3	-6	-1	-1	-9	-41	-155	4027	<80	<80	<80	<80	<80	<80
18	<80	<80	<80	<80	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	<80	<80	<80	<80	-187	-349	-67	-10	-3	-25	-63	-130	-211	-432	519	<80	<80	<80	<80	<80	<80
20	<80	<80	<80	<80	<80	<80	<80	<80	-4	-7	0	0	0	-24	-76	-134	-360	542	<80	<80	<80	<80	<80	<80
21	<80	<80	<80	491	177	<80	623	-26	-26	-10	-1	-38	-82	-113	-218	-438	----	3125	590	225	<80	<80	<80	<80
22	<80	<80	<80	<80	<80	<80	<80	5543	-234	-4	-2	0	-52	-134	-182	-317	-789	1086	<80	<80	<80	<80	<80	<80
23	<80	<80	<80	<80	<80	<80	<80	-708	-8	-25	-16	-22	-55	-145	-280	-537	----	1793	147	<80	<80	<80	<80	<80
24	<80	<80	<80	<80	<80	<80	429	----	-212	-104	-2	-14	-42	-142	-227	-390	----	583	217	<80	<80	<80	<80	<80
25	<80	<80	<80	<80	<80	<80	<80	<80	-3	-1	-33	-76	-100	-170	-326	-787	----	1179	146	<80	<80	<80	<80	<80
26	<80	<80	<80	<80	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
27	****	****	****	<80	<80	119	375	----	-149	-96	-74	-82	-26	-6	-34	-7	-46	813	<80	<80	<80	<80	<80	<80
28	<80	<80	<80	<80	<80	<80	<80	<80	-311	-6	-16	-35	-140	-72	-48	-56	-116	444	<80	<80	<80	<80	<80	<80
29	<80	<80	<80	<80	<80	<80	<80	----	-831	-104	-3	-1	0	-4	-2	-2	-22	<80	<80	<80	<80	<80	<80	<80
30	<80	<80	<80	<80	<80	<80	324	-854	0	-2	-4	0	-3	-30	-33	-211	----	394	<80	<80	<80	<80	<80	<80

PERCENT VALID HOURS FOR SEPT, 1996 651*100/ 720= 90.4%

THREE HIGHEST VALUES FOR SEPT, 1996 XXXX(DD,HH) = ++++(10,22) 6087(4,18) 5543(22, 7) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 — OCT, 1996

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	-16	-2	-26	-2	-3	-41	-193	-280	-371	1775	<80	<80	<80	<80	<80	<80
2	<80	<80	<80	153	<80	<80	<80	<80	-12	-13	-21	-4	-19	-32	-7	-5	-25	<80	<80	<80	<80	<80	<80	<80
3	<80	<80	<80	<80	<80	<80	<80	2263	-228	-2	-4	-1	-3	-23	-63	-214	----	<80	<80	<80	<80	<80	<80	<80
4	<80	<80	<80	<80	<80	<80	222	531	-608	-2	-17	-17	-38	-48	-88	-71	-145	266	222	<80	<80	<80	<80	<80
5	<80	<80	<80	<80	<80	<80	<80	1253	-542	-147	-4	-2	-1	-10	-49	-17	-64	190	116	<80	<80	<80	<80	<80
6	<80	<80	<80	96	<80	96	<80	303	-1	-34	-2	-1	-1	-8	0	-11	-29	<80	<80	<80	<80	<80	<80	<80
7	<80	<80	<80	<80	****	****	****	****	-339	0	-6	-1	-11	-17	-51	-114	-491	<80	<80	<80	<80	<80	<80	<80
8	<80	<80	<80	<80	<80	<80	<80	<80	-64	-243	-2	0	-4	0	-2	-12	<80	<80	<80	<80	<80	<80	<80	<80
9	<80	<80	<80	<80	<80	<80	<80	434	----	-57	0	-3	0	-23	-86	-123	596	<80	<80	<80	<80	<80	<80	<80
10	82	<80	<80	<80	<80	<80	<80	6534	-687	-3	-6	-3	-125	-231	-330	-573	++++	292	<80	<80	<80	<80	<80	<80
11	<80	<80	<80	<80	<80	<80	<80	1800	-490	-32	-11	-2	-38	-71	-200	-721	++++	356	<80	<80	<80	<80	<80	<80
12	<80	<80	<80	<80	155	<80	<80	<80	----	-7	-5	0	-2	-236	-578	-795	2628	124	<80	<80	<80	<80	<80	<80
13	<80	<80	<80	<80	<80	<80	<80	<80	-5	-12	-34	----	-478	-407	-528	-979	3240	120	<80	<80	<80	<80	<80	<80
14	<80	<80	<80	<80	<80	<80	<80	<80	-37	-76	-4	0	-1	-3	-6	-18	-126	<80	<80	<80	<80	<80	<80	<80
15	<80	<80	<80	<80	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	165	330	<80	<80	<80	-220	-41	-16	-21	-18	-2	-11	-10	-479	138	<80	<80	<80	<80	<80	<80
18	<80	<80	<80	108	<80	<80	<80	303	-792	-299	-102	0	-12	-396	-738	----	9446	409	<80	<80	<80	<80	<80	<80
19	<80	<80	297	602	684	365	451	++++	-162	-216	-89	-60	-46	-111	-180	-374	----	++++	7764	2394	165	1093	705	660
20	817	<80	<80	<80	<80	195	116	----	-102	-84	-90	-32	-19	-60	-128	-265	----	1038	506	220	<80	116	<80	85
21	<80	86	<80	279	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
22	****	****	****	<80	<80	<80	<80	<80	----	----	-3	-45	-16	0	-7	-8	----	<80	<80	<80	<80	<80	<80	<80
23	<80	<80	<80	<80	<80	<80	<80	-272	-5	-21	-1	-11	-1	-28	-35	-80	<80	<80	<80	<80	<80	<80	<80	<80
24	<80	<80	<80	<80	<80	<80	<80	<80	-7	-5	-3	-24	-231	-885	-776	----	9735	612	<80	<80	<80	<80	<80	564
25	<80	<80	2536	1017	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	<80	<80	<80	233	1159	-995	-330	-404	-284	-439	-491	----	----	----	4662	965	1107	671	<80	<80	<80
27	263	163	<80	331	135	147	121	886	-380	-408	-385	----	----	----	----	----	----	----	----	++++	----	2109	<80	<80
28	<80	<80	<80	297	201	-313	-155	-52	-24	-104	-482	-186	-157	-58	-8	-13	-154	-571	----	670	<80	<80	<80	<80
29	<80	<80	<80	<80	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	<80	<80	<80	<80	<80	107	-15	-67	-71	-270	-253	-512	-725	-319	-97	-108	-86	-75	-106	-16	-90
31	-138	-355	----	----	----	2011	-395	-66	-14	-204	-40	-51	-29	-43	-303	-191	-26	950	<80	<80	<80	<80	<80	<80

PERCENT VALID HOURS FOR OCT, 1996 624*100/ 744= 83.9%

THREE HIGHEST VALUES FOR OCT, 1996 XXXX(DD,HH) = ++++(10,16) ++++(19, 7) ++++(27,19) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 NOV, 1996

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	157	166	<80	<80	<80	<80	<80	<80	<80	-332	-223	-584	-835	----	----	209	<80	242	182	101	<80	198	<80
2	<80	<80	<80	<80	<80	<80	<80	<80	<80	851	861	561	928	----	381	683	252	<80	<80	<80	<80	<80	<80	<80
3	<80	<80	<80	<80	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
4	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
5	****	****	****	<80	<80	<80	<80	<80	<80	-10	-24	-129	-223	-285	-952	----	1102	142	440	345	112	<80	<80	125
6	<80	<80	401	222	213	<80	<80	311	++++	-512	-170	-31	-40	-15	-5	-890	129	170	<80	<80	<80	<80	<80	<80
7	<80	<80	<80	<80	<80	<80	<80	<80	-86	<80	-231	-63	-223	-13	-11	-62	<80	<80	<80	<80	<80	<80	<80	<80
8	<80	<80	<80	<80	<80	<80	<80	<80	<80	-10	-51	-1	-2	-10	-82	<80	<80	<80	<80	<80	<80	<80	<80	<80
9	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-7	-9	-25	-99	-8	----	<80	<80	<80	<80	<80	<80	<80	<80
10	<80	<80	<80	<80	<80	<80	<80	<80	<80	626	-32	-120	-62	-3	-19	319	<80	<80	<80	<80	<80	<80	<80	<80
11	<80	<80	105	<80	<80	<80	<80	<80	<80	-9	-92	-141	-163	-160	-6	<80	<80	<80	<80	<80	<80	<80	<80	<80
12	<80	168	238	749	255	<80	473	113	460	4172	-134	-855	0	-11	-27	<80	<80	<80	<80	<80	<80	<80	<80	<80
13	<80	<80	<80	<80	<80	<80	<80	233	<80	<80	-17	----	-1	-8	-525	<80	<80	<80	<80	<80	<80	<80	<80	<80
14	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-19	-7	-9	138	----	187	82	<80	<80	<80	<80	<80	<80	<80
15	<80	<80	<80	<80	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	150	<80	<80	<80	<80	<80	<80
18	<80	<80	<80	<80	<80	<80	<80	<80	-43	-97	0	-59	-8	-36	-70	-239	171	<80	<80	<80	<80	<80	<80	<80
19	138	109	568	<80	<80	<80	<80	<80	<80	----	-488	0	-136	-10	-14	<80	84	245	128	189	208	<80	<80	<80
20	<80	<80	<80	<80	<80	<80	<80	203	<80	-197	-1	-1	-4	-4	-13	1596	<80	<80	<80	<80	<80	<80	<80	<80
21	<80	<80	<80	<80	<80	<80	<80	<80	-205	-378	-66	-8	-333	-30	-6	-12	-29	-143	-163	408	244	<80	<80	<80
22	337	<80	763	1077	1517	1338	1213	810	6246	----	----	----	----	----	----	4575	623	94	<80	<80	<80	<80	<80	<80
23	<80	<80	248	<80	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
24	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
25	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	131	120	<80	<80	<80	289	-485	-867	-759	-643	-672	----	4070	561	240	315	129	<80	<80	153	102
27	<80	<80	195	<80	<80	230	<80	121	288	-998	-11	-42	-172	-64	----	907	85	<80	<80	<80	<80	<80	<80	<80
28	<80	<80	<80	<80	<80	<80	<80	<80	-817	----	-8	-5	-509	3800	2882	3720	<80	<80	<80	<80	<80	<80	<80	<80
29	<80	<80	118	<80	<80	<80	<80	138	223	----	----	-979	-603	-611	----	6038	320	<80	<80	260	294	98	80	199
30	<80	<80	<80	<80	<80	<80	<80	<80	<80	132	-41	-10	-56	-35	-12	<80	<80	<80	<80	<80	<80	<80	<80	<80

PERCENT VALID HOURS FOR NOV, 1996 541*100/ 720= 75.1%

THREE HIGHEST VALUES FOR NOV, 1996 XXXX(DD,HH) = ++++(6, 8) 6246(22, 8) 6038(29,15) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY MONIN-OBUKHOV LENGTH (m) BASED ON RICHARDSON NUMBER 3 — DEC, 1996

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	359	<80	<80	<80	<80	<80	<80	<80	<80	-12	-14	-2	-11	-41	-146	817	113	<80	<80	<80	<80	138	<80	<80
2	<80	<80	<80	<80	<80	<80	<80	<80	<80	-78	-30	-222	-159	-71	-487	<80	<80	<80	<80	<80	<80	<80	<80	<80
3	<80	471	341	<80	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
4	****	****	****	<80	<80	<80	<80	<80	<80	0	-561	-4	0	----	-795	1509	<80	<80	<80	<80	<80	<80	<80	<80
5	<80	<80	<80	<80	<80	<80	<80	<80	<80	-192	-128	-32	-5	-4	----	<80	<80	<80	<80	<80	<80	<80	<80	<80
6	<80	117	<80	<80	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
7	****	****	****	<80	<80	<80	<80	<80	<80	-620	-261	-4	-43	-46	-117	-557	377	<80	<80	<80	<80	<80	<80	<80
8	<80	<80	<80	<80	<80	<80	<80	<80	2305	-552	-626	-743	0	-297	-3	160	<80	<80	<80	<80	<80	<80	<80	<80
9	<80	<80	<80	<80	<80	<80	<80	<80	<80	-321	-398	-55	236	<80	290	595	269	897	<80	<80	857	<80	<80	1406
10	1363	878	219	442	560	477	709	367	384	2130	4653	++++	++++	2822	8841	2564	2385	1235	1058	1481	1000	851	340	299
11	608	315	395	434	421	335	253	419	99	376	<80	-268	-49	----	5257	<80	<80	<80	<80	<80	256	<80	<80	<80
12	<80	<80	<80	<80	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
15	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
18	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	<80	<80	<80	<80	<80	0	-26	-27	-3	-31	-34	104	<80	90	<80	<80	<80	<80	<80	<80	<80
21	<80	<80	<80	<80	<80	<80	<80	<80	<80	-69	<80	<80	1075	2417	++++	1733	1726	2084	1129	981	1029	3081	3843	4749
22	3008	1741	2357	3906	4573	7099	8409	4542	1073	----	----	----	----	----	----	4837	1084	1508	1246	413	610	432	<80	<80
23	<80	<80	<80	<80	<80	<80	<80	<80	946	<80	-16	-98	-6	-13	-20	-75	<80	<80	<80	<80	<80	<80	<80	<80
24	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-372	-64	----	-555	-24	<80	<80	<80	<80	<80	<80	<80	<80	<80
25	<80	<80	<80	115	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	<80	<80	<80	<80	<80	<80	-43	0	-642	-586	----	-896	<80	407	<80	<80	<80	<80	<80	<80	<80
27	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	-88	<80	<80	93	502	315	111	<80	<80	<80	<80	<80	<80
28	<80	<80	<80	<80	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
29	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	<80	<80	<80	<80	<80	103	1503	-3	----	-209	-106	-294	331	<80	<80	<80	<80	<80	<80	<80	<80
31	109	<80	<80	<80	<80	<80	<80	<80	<80	-31	-297	-7	-6	-35	-10	-4	<80	<80	<80	<80	<80	<80	<80	<80

PERCENT VALID HOURS FOR DEC, 1996 437*100/ 744= 58.7%

THREE HIGHEST VALUES FOR DEC, 1996 XXXX(DD,HH) = ++++(21,14) ++++(10,12) ++++(10,11) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) JAN, 1996

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	92	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
2	****	177	158	127	80	151	240	437	200	-14	-47	-59	-60	-68	-47	-31	76	251	252	235	251	298	176	238
3	304	157	194	305	286	223	283	199	7	-39	-54	-39	-47	-48	-16	25	139	372	317	155	360	215	286	457
4	208	298	246	184	259	215	236	214	27	-43	-57	-52	-69	-59	-49	-10	114	179	325	255	428	314	228	192
5	223	189	186	203	152	133	167	96	-20	-38	-44	-50	-60	-51	-48	-17	124	165	272	195	354	290	373	326
6	427	484	407	314	334	346	267	285	35	-14	-51	-47	-50	-48	-44	-12	51	318	298	379	470	436	302	321
7	345	353	275	374	320	358	267	175	55	-32	-48	-47	-62	-57	-48	21	162	346	367	237	305	281	299	409
8	276	269	187	267	351	316	317	202	55	-36	-53	-46	-58	-56	-41	47	226	359	264	281	235	377	297	317
9	336	328	263	339	276	333	250	263	51	-31	-44	-52	-50	-56	-37	29	175	198	337	255	138	284	340	148
10	240	323	296	309	185	339	232	397	132	-8	-56	-71	-71	-66	-50	-20	45	200	110	65	100	103	103	101
11	80	207	378	440	453	360	323	194	141	17	-48	-63	-52	-54	-52	-14	97	221	146	103	420	521	639	716
12	570	654	366	663	475	371	497	332	184	-16	-56	-56	-42	-52	-45	-9	129	433	305	196	427	316	426	265
13	308	479	277	400	236	267	318	121	-1	-30	-54	-57	-49	-62	-67	-32	79	244	329	408	465	438	360	155
14	407	211	377	345	191	303	313	253	38	-39	-50	-55	-60	-59	-43	-5	153	208	303	372	413	341	376	167
15	214	229	160	121	235	138	233	240	51	-46	-54	-52	-51	-50	-47	-34	77	203	215	287	358	246	300	383
16	248	261	280	384	220	226	313	105	14	-33	-39	-39	-45	-53	-33	-18	6	11	1	3	16	13	16	26
17	32	63	13	22	48	43	40	33	-9	-43	-66	-79	-80	-75	-63	-41	3	64	79	107	50	45	74	93
18	100	116	162	138	260	318	333	193	42	-32	-44	-52	-50	-60	-60	-55	-24	85	302	324	279	83	171	208
19	175	277	138	234	220	180	185	138	-2	-38	-49	-63	-59	-58	-22	-11	40	89	130	281	261	333	425	489
20	467	431	206	279	206	217	314	322	54	-39	-39	-45	-67	-71	-63	-29	66	186	383	283	216	310	293	307
21	363	209	277	239	236	164	187	136	22	-40	-32	-70	-76	-51	-38	-25	10	150	170	6	-14	-4	-7	19
22	46	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
23	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
24	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
25	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
27	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
28	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
29	****	193	103	151	148	123	205	130	47	-35	-40	-54	-52	-52	-52	-36	1	101	177	78	144	187	201	261
30	203	154	53	133	7	68	39	100	-8	-34	-38	-42	-44	-42	-39	-22	13	71	162	121	166	188	169	128
31	233	257	219	158	116	102	51	6	2	-31	-38	-43	-49	-50	-55	-41	-23	7	-10	-5	2	-3	0	5

PERCENT VALID HOURS FOR JAN, 1996 552*100/ 744= 74.2%

THREE HIGHEST VALUES FOR JAN, 1996 XXXX(DD,HH) = 716(11,23) 663(12, 3) 654(12, 1) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) FEB, 1996

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	7	28	30	55	22	29	40	20	-20	-38	-100	-107	-53	-47	-57	-55	-23	31	114	108	170	183	308	120
2	117	190	219	111	103	95	51	71	7	-28	-57	-56	-81	-74	-68	-53	-13	47	88	78	200	318	229	204
3	358	340	264	281	188	149	156	151	27	-12	-32	-50	-40	-41	-40	-35	-6	69	115	64	61	91	206	137
4	142	193	155	166	83	159	220	152	1	-45	-48	-52	-54	-63	-56	-53	-31	77	106	278	177	165	70	60
5	36	74	47	49	73	72	58	24	-12	-48	-55	-56	-55	-50	-45	-41	-6	127	246	116	218	141	255	217
6	231	196	220	232	195	177	170	149	-37	-44	-52	-73	-71	-59	-58	-47	-13	160	133	228	233	322	242	239
7	314	357	335	289	295	240	242	271	75	-44	-58	-77	-48	-53	-41	8	73	215	270	249	398	270	331	276
8	297	150	220	217	328	137	203	194	5	-39	-52	-70	-61	-62	-62	-32	61	182	454	227	348	454	222	236
9	315	198	230	296	147	275	183	273	-6	-31	-48	-55	-58	-53	-45	-33	59	166	159	186	224	177	244	261
10	197	156	209	260	228	232	320	220	33	-37	-58	-46	-53	-53	-62	-52	3	139	264	340	240	174	298	329
11	190	207	216	193	257	252	240	266	116	5	-61	-53	-65	-63	-80	-76	-20	148	316	209	277	213	478	271
12	311	291	569	548	552	506	597	475	299	99	-40	-68	-110	-104	-94	-74	-7	114	277	348	396	464	277	279
13	289	336	455	266	319	259	283	147	40	-49	-52	-71	-76	-81	-65	-51	-37	112	339	97	219	361	467	177
14	233	206	459	250	313	220	210	160	0	-43	-55	-70	-65	-63	-59	-47	4	177	216	261	296	279	237	248
15	277	303	216	297	357	201	282	146	-24	-39	-49	-58	-60	-47	-60	-51	3	155	259	278	227	236	205	173
16	197	204	230	210	288	335	192	170	26	-35	-64	-74	-78	-85	-83	-54	-22	131	286	299	218	243	168	206
17	234	143	179	247	257	176	254	69	-12	-47	-47	-65	-69	-67	-70	-46	8	89	112	229	296	462	325	322
18	355	408	295	215	222	454	361	223	82	-26	-45	-48	-60	-58	-71	-60	-31	64	106	130	247	215	276	221
19	188	105	111	117	88	186	163	116	69	-32	-48	-56	-67	-57	-50	-33	-23	-11	-12	-6	-7	-9	-4	-4
20	-4	-6	-5	-7	-4	-9	-10	-16	-33	-38	-22	-31	-29	-25	-31	34	-4	-10	-6	4	0	-5	10	17
21	14	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
22	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
23	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
24	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
25	****	****	****	****	****	****	****	****	****	-51	-64	-61	-67	-62	-53	-47	-38	-21	-19	-28	-24	-20	-1	22
26	-1	12	-9	6	33	1	32	114	52	-7	-68	-94	-104	-114	-100	-71	-50	-27	-4	1	41	79	166	175
27	62	152	121	62	65	66	79	-18	-33	-46	-54	-59	-88	-67	-64	-61	-46	-38	-37	-36	-29	-25	-24	-20
28	0	10	22	-1	26	41	46	25	57	15	15	61	-42	-63	-50	-46	-49	-19	61	67	68	69	151	127
29	71	128	58	157	176	156	153	52	-19	-42	-56	-51	-54	-69	-53	-57	-43	-19	131	149	158	122	279	220

PERCENT VALID HOURS FOR FEB, 1996 592*100/ 696= 85.1%

THREE HIGHEST VALUES FOR FEB, 1996 XXXX(DD,HH) = 597(12, 6) 569(12, 2) 552(12, 4) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) MAR, 1996

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	198	180	192	190	182	166	217	8	58	-49	-52	-59	-62	-79	-92	-71	-31	80	104	134	59	329	296	301
2	315	408	272	320	226	293	179	87	-2	-41	-57	-69	-66	-68	-72	-54	-36	102	237	329	241	273	255	305
3	287	121	125	212	250	288	190	84	-22	-65	-52	-38	-56	-49	-42	-31	-8	41	266	286	246	261	295	208
4	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
5	****	****	****	****	****	****	****	****	****	-80	-100	-99	-96	-94	-88	-72	-40	-5	7	-11	-15	-11	-10	7
6	102	102	60	37	89	230	246	81	-34	-90	-93	-84	-81	-105	-66	-62	-44	48	285	165	124	156	216	314
7	204	265	281	139	136	233	203	45	-38	-54	-42	-52	-71	-71	-54	-65	-43	42	225	202	262	136	242	332
8	249	303	296	222	309	184	169	60	-16	-52	-73	-80	-71	-81	-99	-78	-61	72	201	243	195	295	274	273
9	184	276	305	300	373	314	232	107	-7	-33	-55	-57	-63	-62	-58	-36	4	47	174	317	242	107	245	198
10	191	136	243	240	309	355	217	53	-55	-47	-60	-86	-111	-107	-100	-78	-47	30	156	187	334	198	138	431
11	284	370	228	163	287	336	160	4	-42	-46	-61	-105	-119	-113	-99	-79	-58	-5	20	27	82	153	105	283
12	347	237	199	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	76	84	96	103	11	-38	-43	-52	-50	-60	-66	-59	-61	-46	-24	65	114	73	105	31	63
15	85	90	101	146	158	178	185	-11	-41	-52	-60	-79	-80	-86	-79	-67	-49	-7	184	119	148	319	255	209
16	250	194	196	259	298	323	179	43	-41	-60	-87	-124	-115	-117	-97	-79	-52	20	149	144	76	101	162	154
17	200	118	128	92	122	148	203	9	-42	-57	-70	-82	-93	-85	-87	-67	-45	11	132	185	128	143	117	174
18	172	178	81	212	480	385	291	169	-42	-50	-77	-96	-85	-95	-71	-69	-57	-24	44	249	267	198	206	333
19	253	181	175	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
21	****	****	****	210	301	268	229	44	-47	-57	-54	-56	-74	-111	-103	-84	-58	8	157	363	474	381	207	279
22	358	297	296	306	309	263	226	-2	-36	-50	-115	-130	-134	-127	-111	-88	-52	-16	4	5	51	63	36	5
23	2	3	-9	39	51	43	26	-42	-64	-84	-96	-119	-113	-123	-109	-90	-70	-31	2	37	58	101	137	122
24	170	197	174	239	282	269	172	-3	-43	-61	-70	-84	-114	-115	-123	-101	-65	-20	29	94	131	125	234	229
25	229	224	165	290	261	452	113	2	-52	-70	-74	-85	-90	-100	-100	-87	-63	-42	-35	-48	-34	-28	-16	-6
26	1	6	12	27	25	19	10	-44	-75	-93	-94	-76	-84	-77	-81	-80	-58	-22	111	173	208	404	305	285
27	363	238	170	183	116	76	52	-36	-52	-47	-55	-59	-84	-67	-98	-87	-64	-12	164	295	249	191	246	167
28	216	203	254	334	186	332	184	23	-55	-99	-119	-136	-133	-128	-105	-85	-61	-32	-18	-39	-43	-29	-33	-12
29	16	65	119	52	169	212	71	-40	-64	-111	-98	-101	-86	-82	-78	-70	-69	-29	109	118	151	353	160	254
30	321	162	154	338	134	211	164	-24	-48	-54	-68	-76	-94	-103	-94	-87	-70	-23	93	94	114	294	249	441
31	364	120	232	182	132	163	133	-25	-55	-69	-65	-75	-93	-90	-108	-99	-67	-13	166	483	328	384	337	228

PERCENT VALID HOURS FOR MAR, 1996 615*100/ 744= 82.7%

THREE HIGHEST VALUES FOR MAR, 1996 XXXX(DD,HH) = 483(31,19) 480(18, 4) 474(21,20) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) APR, 1996

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	265	246	347	311	281	210	159	-39	-51	-86	-106	-131	-138	-134	-116	-93	-56	-26	-25	-20	-13	31	29	19
2	16	44	43	81	183	120	43	-39	-54	-54	-82	-104	-111	-94	-82	-70	-62	-37	20	205	218	237	345	248
3	348	435	241	272	212	367	175	-24	-56	-64	-60	-82	-96	-104	-110	-93	-67	-41	1	46	33	99	259	108
4	60	25	17	72	23	46	-8	-51	-89	-111	-111	-98	-95	-121	-108	-95	-73	-25	52	92	176	150	144	170
5	147	140	86	83	81	89	16	-46	-89	-114	-133	-120	-123	-117	-99	-87	-73	-13	183	178	463	374	502	612
6	274	298	430	422	362	270	150	-13	-43	-71	-75	-86	-103	-85	-73	-74	-60	-4	184	365	207	210	252	485
7	268	385	211	309	327	303	100	-33	-60	-61	-82	-79	-94	-95	-83	-82	-69	-23	138	299	221	433	295	392
8	333	262	228	263	300	128	68	-49	-57	-58	-75	-103	-124	-126	-117	-102	-65	-23	73	73	86	243	420	441
9	436	261	395	375	306	505	159	-35	-52	-66	-96	-136	-139	-131	-96	-88	-79	-15	65	97	143	260	392	312
10	269	325	510	269	404	206	145	-20	-57	-70	-86	-109	-127	-126	-128	-103	-75	-29	58	119	117	104	42	72
11	188	34	-10	-3	73	85	-9	-53	-74	-102	-104	-94	-96	-102	-79	-86	-74	-38	33	170	194	181	296	251
12	202	228	135	127	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	204	351	431	320	-10	-53	-94	-96	-81	-92	-112	-92	-89	-62	-36	53	253	88	134	91	22
14	41	46	66	178	321	385	114	-38	-55	-96	-114	-124	-105	-99	-89	-85	-77	-50	35	151	431	257	224	149
15	298	264	174	304	206	202	100	-40	-52	-46	-62	-72	-84	-97	-91	-105	-75	-33	31	125	331	354	201	28
16	37	20	52	199	126	62	-21	-29	-46	-48	-63	-86	-122	-136	-121	-87	-70	-38	-7	1	-5	-5	-9	-7
17	5	7	11	24	32	28	-19	-63	-92	-115	-138	-132	-144	-127	-126	-102	-61	-42	-12	-7	-10	-8	-6	-9
18	-6	-7	-7	-10	-4	-8	-34	-64	-100	-115	-101	-112	-126	-121	-107	-92	-74	-45	1	23	29	32	54	71
19	176	241	180	192	433	495	81	-44	-49	-64	-72	-90	-84	-93	-91	-90	-67	-41	-1	35	98	115	435	182
20	254	320	366	164	258	230	11	-48	-79	-94	-104	-107	-77	-72	-63	-56	-47	-39	-15	79	10	12	37	114
21	124	216	171	344	324	346	110	-43	-58	-87	-73	-83	-84	-101	-107	-92	-81	-52	22	189	111	86	290	162
22	234	436	259	335	258	221	38	-45	-52	-52	-78	-98	-106	-113	-92	-83	-66	-38	96	189	242	376	233	365
23	331	181	257	290	261	162	88	-45	-51	-71	-68	-95	-100	-102	-86	-80	-58	-14	134	200	321	367	272	415
24	351	185	355	331	265	310	43	-26	-64	-61	-105	-119	-138	-129	-118	-87	-62	-28	32	64	40	44	67	41
25	149	133	116	111	136	90	30	-60	-81	-99	-124	-124	-116	-113	-103	-113	-86	-43	88	118	245	305	299	392
26	340	397	419	379	168	299	113	-30	-52	-65	-90	-87	-98	-90	-81	-77	-64	-31	100	120	133	204	221	264
27	115	126	186	28	158	243	123	-47	-69	-84	-81	-92	-96	-109	-114	-101	-70	-32	16	46	29	17	1	4
28	2	13	17	53	61	23	-31	-81	-110	-141	-165	-162	-162	-156	-145	-127	-100	-56	4	92	80	177	177	199
29	239	67	60	72	116	7	-17	-50	-66	-75	-78	-79	-84	-90	-91	-72	-61	-43	108	242	295	308	350	341
30	370	248	307	297	238	252	26	-24	-49	-66	-84	-100	-112	-98	-99	-94	-70	-30	45	138	72	32	41	136

PERCENT VALID HOURS FOR APR, 1996 697*100/ 720= 96.8%

THREE HIGHEST VALUES FOR APR, 1996 XXXX(DD,HH) = 612(5,23) 510(10, 2) 505(9, 5) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) MAY, 1996

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	160	411	320	381	355	239	108	-54	-53	-73	-92	-108	-107	-110	-100	-87	-71	-30	81	162	239	302	166	265
2	492	446	165	379	325	311	31	-40	-43	-77	-97	-119	-130	-137	-126	-104	-78	-39	64	323	212	108	145	98
3	155	268	449	432	318	268	147	-43	-62	-66	-85	-107	-134	-124	-128	-105	-81	-38	62	186	297	463	308	488
4	430	464	522	399	381	316	158	-19	-60	-71	-81	-83	-93	-115	-112	-90	-72	-27	119	366	295	448	243	311
5	346	299	321	376	382	382	28	-46	-54	-70	-85	-106	-130	-137	-126	-101	-80	-42	117	260	341	425	274	317
6	370	347	416	287	232	214	98	-46	-62	-69	-71	-81	-122	-138	-126	-110	-76	-52	19	130	119	56	139	266
7	180	269	236	279	303	299	145	-8	-86	-104	-115	-125	-120	-125	-122	-109	-83	-34	9	87	284	455	487	393
8	389	382	329	296	318	170	10	-43	-65	-85	-103	-110	-127	-132	-126	-112	-90	-40	-10	49	60	47	36	16
9	3	7	39	66	87	66	-41	-57	-68	-68	-109	-114	-106	-85	-125	-84	-68	-59	-7	94	139	290	313	294
10	254	428	304	205	185	135	13	-46	-69	-69	-81	-92	-102	-92	-99	-86	-76	-51	61	330	303	311	270	322
11	441	393	239	365	268	146	30	-54	-50	-63	-68	-83	-92	-86	-83	-77	-64	-16	98	407	175	211	348	276
12	352	235	154	478	308	287	53	-45	-63	-65	-64	-85	-110	-113	-97	-91	-81	-37	71	381	548	346	262	143
13	276	386	300	297	392	328	45	-57	-67	-66	-121	-137	-136	-138	-129	-109	-82	-17	34	143	188	101	133	148
14	192	147	46	127	202	266	48	-54	-87	-96	-111	-125	-125	-138	-133	-109	-72	-42	-20	7	-2	7	44	63
15	45	72	80	121	293	127	-28	-65	-96	-108	-131	-142	-156	-121	-107	-110	-76	-47	-31	-29	-26	-24	-22	-21
16	-17	-18	-13	-11	-6	-8	-46	-77	-101	-120	-98	-134	-153	-107	-104	-123	-79	-53	-28	-14	-5	3	5	2
17	32	62	103	162	79	39	-33	-56	-60	-64	-74	-91	-115	-132	-128	-97	-74	-46	-2	14	28	38	56	61
18	111	83	77	93	68	32	-36	-76	-105	-131	-151	-151	-155	-147	-130	-103	-69	-44	-13	14	14	36	128	173
19	62	109	158	203	195	166	52	-47	-90	-93	-115	-133	-140	-131	-126	-114	-86	-63	-2	126	66	74	53	109
20	79	54	111	85	133	58	-28	-70	-88	-84	-86	-83	-95	-108	-98	-87	-65	-60	-13	129	167	157	355	226
21	308	489	221	194	301	81	7	-53	-59	-68	-94	-121	-113	-111	-104	-80	-62	-49	-7	245	197	74	19	28
22	17	6	48	74	188	222	-4	-72	-92	-101	-109	-125	-125	-137	-122	-118	-80	-47	6	-8	20	14	7	2
23	7	44	78	73	78	65	-42	-81	-93	-88	-87	-104	-116	-123	-85	-81	-69	-49	-40	-37	-31	-24	-26	-29
24	-29	-26	-22	-23	-36	-45	-36	-39	-51	-104	-113	-67	-84	-143	-103	-64	-68	-58	-47	-42	-30	-15	-9	-6
25	-1	-23	16	22	80	4	-46	-79	-84	-66	-71	-105	-77	-90	-76	-70	-54	-34	-27	47	33	15	-22	-28
26	-32	-19	-18	-6	-8	-25	-42	-51	-53	-68	-79	-97	-78	-89	-102	-99	-84	-58	-40	-17	54	189	177	141
27	108	131	234	206	176	100	-4	-45	-80	-91	-135	-139	-125	-137	-137	-116	-78	-57	-45	-39	-24	21	32	94
28	133	146	204	188	165	125	-34	-53	-63	-69	-83	-99	-95	-111	-91	-79	-67	-49	-3	157	278	219	123	255
29	275	109	88	150	136	56	-28	-55	-87	-107	-97	-85	-96	-134	-127	-112	-91	-56	-4	99	235	210	238	450
30	261	258	285	354	391	335	24	-54	-71	-76	-88	-82	-93	-110	-97	-100	-79	-58	6	205	233	309	273	217
31	458	240	243	384	209	134	9	-53	-70	-67	-79	-83	-117	-121	-117	-102	-87	-64	5	224	266	397	292	253

PERCENT VALID HOURS FOR MAY, 1996 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR MAY, 1996 XXXX(DD,HH) = 548(12,20) 522(4, 2) 492(2, 0) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) JUNE, 1996

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	390	312	321	162	231	163	101	-34	-58	-72	-91	-97	-99	-102	-97	-84	-82	-51	-10	119	232	137	150	258
2	390	205	239	271	228	266	12	-45	-61	-65	-98	-117	-101	-111	-101	-78	-66	-51	20	258	215	223	189	422
3	196	391	232	278	203	172	41	-47	-63	-63	-72	-88	-116	-103	-103	-86	-78	-56	25	241	277	364	332	421
4	305	343	280	261	328	140	-9	-56	-61	-75	-84	-123	-132	-133	-119	-113	-85	-52	32	222	328	441	314	362
5	343	464	346	352	347	197	-4	-51	-68	-66	-91	-110	-140	-137	-126	-102	-79	-52	77	238	227	442	383	392
6	333	278	305	183	266	160	49	-43	-56	-66	-94	-85	-103	-129	-113	-103	-83	-61	-18	51	205	296	223	251
7	185	253	331	355	324	195	-2	-63	-63	-63	-82	-122	-130	-135	-133	-119	-97	-63	-2	103	124	175	573	446
8	223	314	234	280	232	112	-29	-57	-70	-62	-105	-130	-160	-150	-133	-113	-90	-57	15	124	81	476	327	320
9	320	261	370	121	214	165	-31	-49	-63	-81	-105	-120	-125	-106	-107	-90	-76	-43	34	193	29	178	235	225
10	268	292	325	148	347	233	13	-55	-77	-79	-96	-124	-136	-128	-126	-108	-94	-63	-1	123	73	184	129	389
11	614	489	629	389	436	366	41	-56	-76	-83	-103	-108	-127	-141	-137	-126	-98	-66	-8	156	196	512	288	392
12	256	457	276	274	304	136	-15	-61	-67	-70	-93	-115	-130	-135	-141	-130	-99	-63	-13	86	127	337	328	233
13	343	363	297	243	218	110	-3	-53	-62	-63	-89	-109	-123	-116	-124	-123	-101	-64	-11	103	56	289	501	173
14	382	249	303	249	166	210	-32	-48	-69	-69	-86	-87	-114	-133	-123	-118	-104	-66	2	145	137	566	344	238
15	231	307	230	168	239	158	6	-52	-69	-70	-90	-134	-134	-142	-142	-124	-98	-63	-8	68	178	546	357	341
16	298	309	265	262	349	165	-24	-46	-63	-80	-114	-156	-156	-150	-135	-118	-94	-61	-13	100	211	190	83	121
17	438	439	471	214	378	170	59	-54	-86	-129	-141	-149	-155	-147	-140	-119	-97	-58	-8	87	255	273	349	540
18	333	340	396	476	307	320	-1	-46	-56	-80	-98	-119	-130	-139	-141	-118	-96	-63	-14	57	149	286	345	444
19	267	231	403	463	341	450	147	-50	-68	-80	-92	-119	-164	-157	-139	-121	-91	-58	-9	49	100	57	28	33
20	31	45	49	124	217	291	97	-60	-63	-98	-118	-135	-149	-165	-149	-123	-100	-64	-14	122	334	160	189	98
21	83	115	94	80	149	146	-12	-74	-99	-137	-153	-162	-150	-150	-141	-122	-94	-66	-28	24	66	67	79	101
22	255	235	267	260	172	189	-37	-56	-63	-71	-83	-97	-106	-113	-105	-112	-98	-76	-29	89	221	214	298	249
23	346	253	200	311	216	97	-34	-60	-65	-76	-94	-130	-131	-139	-136	-126	-104	-67	-13	58	76	122	189	150
24	138	344	283	195	275	372	52	-73	-104	-127	-150	-160	-162	-150	-143	-119	-93	-60	-27	9	20	14	10	33
25	52	53	170	152	274	50	-38	-62	-111	-120	-138	-164	-162	-145	-112	-94	-93	-81	-35	16	50	32	29	3
26	-15	8	21	-11	-19	-18	7	-3	-35	-38	-33	-26	-41	-68	-92	-67	-68	-56	-12	61	227	162	181	89
27	176	186	164	170	257	247	-19	-42	-51	-55	-87	-109	-117	-117	-113	-108	-93	-68	-26	132	293	195	244	234
28	206	403	250	211	335	119	-15	-43	-64	-68	-83	-91	-98	-96	-94	-83	-69	-60	-24	203	160	467	258	449
29	394	253	209	274	212	181	-17	-43	-58	-67	-78	-90	-94	-97	-88	-92	-66	-48	-15	127	330	166	235	380
30	362	266	276	350	245	233	-4	-45	-46	-58	-55	-92	-93	-85	-105	-88	-82	-56	25	258	278	243	266	561

PERCENT VALID HOURS FOR JUNE, 1996 720*100/ 720=100.0%

THREE HIGHEST VALUES FOR JUNE, 1996 XXXX(DD,HH) = 629(11, 2) 614(11, 0) 573(7,22) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) JULY, 1996

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	411	207	290	201	369	214	12	-44	-65	-55	-80	-107	-117	-120	-109	-104	-85	-63	-3	90	56	282	206	303
2	449	199	325	208	379	191	3	-55	-66	-59	-83	-128	-128	-113	-121	-115	-101	-72	-23	45	134	159	284	475
3	274	200	193	239	202	147	44	-75	-87	-121	-139	-120	-138	-119	-138	-124	-99	-69	-24	4	22	-6	8	169
4	53	49	100	49	104	164	-1	-49	-58	-77	-114	-147	-148	-149	-139	-122	-101	-71	-23	120	249	521	382	313
5	339	277	301	235	274	186	-16	-64	-82	-79	-93	-105	-124	-131	-127	-117	-94	-70	-29	82	196	246	466	254
6	245	347	286	251	161	126	49	-54	-58	-71	-93	-109	-123	-126	-102	-106	-84	-65	-5	233	301	197	335	345
7	384	310	305	145	224	165	46	-53	-66	-62	-105	-137	-127	-114	-133	-112	-93	-68	-26	70	130	375	452	241
8	222	167	358	188	204	254	54	-54	-68	-72	-114	-134	-145	-144	-143	-125	-105	-73	-31	37	113	90	172	222
9	-5	-6	-5	23	12	22	-51	-49	-56	-61	-80	-117	-136	-139	-122	-115	-99	-75	-33	89	149	67	31	77
10	134	57	105	211	130	81	-42	-51	-64	-74	-81	-100	-148	-150	-131	-134	-131	-98	-65	-37	-15	-6	-9	-7
11	51	84	14	18	53	31	-39	-56	-74	-81	-90	-87	-95	-121	-92	-83	-77	-73	-46	-30	-32	-34	-13	-6
12	14	66	70	74	110	74	-40	-52	-58	-81	-97	-100	-111	-129	-85	-66	-79	-64	-19	65	99	101	28	75
13	199	149	201	155	145	147	-29	-52	-60	-60	-92	-91	-108	-109	-107	-98	-90	-60	-41	-5	47	66	76	108
14	137	103	160	64	99	38	-35	-46	-58	-64	-83	-85	-99	-119	-135	-104	-84	-86	-42	97	81	19	-15	-7
15	29	58	113	84	66	11	-39	-54	-63	-85	-104	-126	-153	-147	-135	-127	-105	-77	-39	-21	-23	-18	-2	-11
16	-2	114	217	240	258	193	33	-55	-83	-116	-135	-148	-157	-158	-139	-126	-97	-63	-23	10	34	64	125	153
17	181	70	52	100	183	166	2	-62	-90	-112	-132	-150	-143	-154	-141	-126	-98	-64	-14	87	180	429	253	413
18	335	292	311	140	257	359	121	-40	-68	-75	-138	-150	-148	-140	-132	-118	-93	-58	-5	83	116	42	419	398
19	244	234	397	348	378	204	21	-39	-57	-79	-130	-145	-146	-135	-126	-116	-90	-62	-3	179	216	326	259	398
20	144	316	232	264	191	284	55	-47	-55	-61	-76	-89	-111	-119	-116	-105	-88	-58	5	198	231	345	219	413
21	249	251	222	325	223	186	68	-44	-59	-71	-79	-112	-124	-123	-103	-88	-78	-59	47	302	242	248	342	414
22	424	330	376	331	255	227	18	-49	-53	-52	-78	-82	-99	-120	-112	-99	-88	-60	30	171	340	141	322	261
23	220	375	379	243	228	279	-17	-55	-64	-67	-81	-82	-113	-133	-124	-105	-98	-57	15	99	114	47	64	108
24	306	366	170	234	196	186	84	-52	-41	-58	-80	-107	-137	-133	-130	-104	-86	-61	17	212	256	189	223	160
25	205	370	131	234	269	321	47	-50	-59	-71	-111	-138	-136	-136	-122	-104	-88	-57	27	238	222	275	226	314
26	228	280	212	218	167	135	16	-64	-73	-102	-107	-115	-107	-118	-121	-119	-97	-66	-24	16	159	-15	-46	-31
27	-26	9	5	-8	53	120	-41	-45	-57	-67	-76	-85	-87	-91	-107	-131	-92	-68	-49	-20	4	9	14	42
28	124	167	130	122	180	214	-11	-49	-61	-95	-133	-139	-136	-130	-131	-108	-112	-66	-37	-1	2	-23	1	55
29	34	153	71	87	145	52	-43	-50	-55	-61	-72	-82	-80	-100	-99	-91	-72	-67	10	136	142	158	92	233
30	308	328	183	176	248	87	38	-43	-63	-68	-77	-92	-122	-125	-111	-102	-80	-60	13	211	165	262	118	107
31	190	138	198	179	201	108	46	-62	-69	-65	-85	-111	-140	-131	-120	-99	-90	-59	-30	67	113	237	196	180

PERCENT VALID HOURS FOR JULY, 1996 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR JULY, 1996 XXXX(DD,HH) = 521(4,21) 475(2,23) 466(5,22) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) AUG, 1996

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	202	262	367	328	177	136	0	-51	-55	-76	-121	-147	-145	-145	-134	-117	-93	-53	14	233	336	304	284	397
2	428	390	185	364	396	427	137	2	-49	-116	-134	-141	-148	-148	-134	-114	-85	-49	1	58	65	84	78	44
3	51	142	394	180	121	273	153	-26	-84	-118	-142	-149	-153	-144	-133	-118	-88	-50	-3	45	76	53	51	74
4	184	190	194	280	367	160	19	-46	-60	-76	-88	-106	-95	-123	-127	-113	-97	-62	-2	155	130	247	453	242
5	426	296	254	350	263	238	12	-40	-67	-69	-127	-151	-157	-149	-139	-124	-94	-54	-9	38	70	86	168	144
6	115	93	126	233	348	242	25	-21	-65	-58	-68	-71	-79	-93	-88	-86	-72	-53	13	159	108	173	275	192
7	231	337	319	272	****	****	****	****	****	****	****	****	****	****	****	****	-76	-45	11	124	336	271	262	399
8	170	236	198	251	320	185	72	-46	-60	-55	-64	-72	-83	-102	-95	-95	-91	-58	37	234	212	389	362	255
9	475	406	238	318	242	291	19	-52	-52	-60	-75	-100	-90	-102	-85	-89	-69	-45	87	189	251	291	369	226
10	427	218	281	326	216	108	-27	-49	-49	-75	-71	-92	-103	-99	-112	-76	-72	-50	67	219	112	157	248	212
11	222	285	169	171	97	190	31	-25	-58	-66	-78	-89	-90	-107	-127	-106	-74	-29	-8	57	117	106	315	299
12	217	188	280	134	184	137	52	-55	-71	-73	-99	-95	-75	-78	-100	-83	-56	-31	3	67	76	233	198	226
13	292	171	214	179	181	217	89	-36	-62	-61	-72	-83	-101	-129	-128	-94	-88	-74	-44	42	99	106	22	115
14	191	132	220	214	260	182	121	-48	-57	-63	-74	-105	-127	-112	-125	-112	-80	-46	63	246	309	176	198	282
15	318	277	326	174	294	275	22	-46	-59	-68	-93	-102	-110	-121	-115	-99	-86	-52	12	121	159	365	485	202
16	156	66	87	130	178	118	-4	16	-49	-67	-85	-105	-130	-151	-122	-59	26	39	39	118	91	102	165	80
17	337	167	220	101	128	91	66	-41	-60	-73	-81	-108	-131	-135	-121	-108	-79	-43	22	59	101	180	215	249
18	388	258	180	399	277	407	148	-23	-60	-85	-106	-141	-146	-148	-130	-105	-83	-39	47	207	296	244	359	272
19	386	294	337	241	386	376	161	-29	-60	-79	-105	-138	-147	-142	-134	-110	-77	-36	48	173	272	511	270	263
20	264	282	199	234	258	401	139	-35	-46	-58	-97	-147	-148	-138	-115	-102	-73	-24	102	238	667	419	205	245
21	395	369	204	219	253	125	149	-31	-50	-67	-73	-75	-99	-115	-106	-95	-73	-34	133	344	200	185	353	356
22	386	238	233	269	230	230	182	-37	-48	-67	-75	-91	-95	-104	-91	-77	-61	-39	77	200	161	195	286	303
23	341	152	136	165	131	243	141	-42	-53	-71	-73	-78	-78	-85	-85	-78	-84	-50	-33	-29	-21	-15	34	50
24	191	106	88	98	103	93	62	-19	-56	-75	-91	-126	-119	-99	-121	-104	-64	-39	-3	26	50	211	222	130
25	177	172	233	165	142	156	37	-36	-55	-70	-62	-77	-99	-93	-101	-90	-68	-48	72	94	60	120	98	236
26	159	156	318	199	292	179	93	-5	-68	-64	-89	-108	-131	-133	-130	-107	-78	-33	40	130	396	184	143	254
27	277	416	335	298	378	236	163	20	-65	-105	-123	-136	-138	-133	-123	-106	-72	-23	96	225	420	255	409	477
28	317	289	191	326	296	264	186	-18	-36	-31	-83	-108	-128	-93	-94	-81	-62	-24	153	279	222	316	205	347
29	283	192	234	235	296	259	92	-1	-43	-62	-72	-81	-87	-88	-94	-87	-68	-10	171	276	585	295	377	451
30	355	318	264	203	209	301	181	-4	-57	-74	-69	-78	-91	-94	-100	-87	-69	-4	202	216	330	358	277	349
31	319	250	318	232	325	212	128	-34	-50	-64	-90	-109	-122	-124	-110	-95	-72	-14	213	208	87	511	354	394

PERCENT VALID HOURS FOR AUG, 1996 732*100/ 744= 98.4%

THREE HIGHEST VALUES FOR AUG, 1996 XXXX(DD,HH) = 667(20,20) 585(29,20) 511(19,21) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) SEPT, 1996

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	178	199	312	237	338	279	141	9	-64	-74	-87	-94	-113	-104	-93	-96	-70	-16	149	313	419	476	467	361
2	411	300	350	415	273	335	43	-30	-59	-74	-82	-108	-111	-116	-108	-97	-70	-16	108	200	301	394	298	134
3	346	404	290	321	310	336	156	-5	-58	-65	-117	-140	-137	-129	-112	-96	-65	-20	76	179	185	243	452	529
4	572	456	286	241	146	116	97	-5	-76	-105	-123	-134	-145	-130	-119	-98	-62	-36	-6	1	15	21	8	9
5	24	77	97	67	119	152	97	-46	-85	-102	-125	-124	-137	-133	-105	-104	-74	-27	20	102	131	132	183	376
6	266	43	82	52	112	263	194	-28	-51	-68	-82	-105	-97	-84	-89	-93	-78	-40	64	124	328	303	174	184
7	228	123	108	223	223	227	128	-46	-50	-66	-69	-86	-105	-115	-104	-95	-73	-34	71	103	339	221	244	252
8	131	165	168	141	191	130	166	-44	-60	-62	-77	-96	-95	-84	-60	-77	-72	-47	-21	90	115	217	132	210
9	135	156	132	147	319	142	77	-40	-57	-60	-69	-77	-86	-99	-105	-96	-101	-51	26	119	198	253	179	142
10	55	99	133	93	283	250	164	-24	-58	-57	-77	-85	-97	-98	-91	-86	-67	-32	102	17	104	65	-7	-15
11	47	78	79	85	74	44	53	-20	-60	-63	-88	-109	-106	-109	-99	-91	-82	-29	11	72	161	266	28	205
12	255	250	301	155	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	149	74	31	2	-23	-30	-51	-85	-80	-70	-66	-53	-67	-42	-25	10	104	112	113	176	101
14	146	254	209	117	166	185	109	-24	-52	-68	-80	-113	-88	-96	-89	-76	-67	-24	70	153	138	364	298	184
15	290	233	263	220	241	256	141	-35	-54	-63	-113	-114	-137	-140	-121	-98	-64	-26	2	15	44	78	109	32
16	24	18	15	29	40	155	57	-24	-82	-68	-82	-89	-114	-105	-103	-83	-52	-10	24	99	44	21	74	140
17	65	50	20	32	24	223	184	-39	-58	-57	-74	-74	-69	-84	-91	-84	-64	-8	110	113	200	304	193	252
18	172	392	172	134	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	153	238	209	114	-24	-45	-52	-65	-77	-101	-108	-108	-90	-55	35	180	152	467	362	387	383
20	300	421	288	229	208	166	161	1	-57	-60	-73	-65	-81	-94	-100	-83	-55	27	226	285	391	257	415	433
21	262	324	175	165	200	249	118	-23	-52	-59	-76	-94	-107	-114	-107	-89	-55	1	66	108	246	463	346	399
22	278	228	218	363	257	123	238	-12	-47	-61	-74	-76	-100	-110	-114	-93	-55	12	149	278	278	308	379	355
23	212	243	206	399	174	242	151	-22	-52	-60	-64	-85	-115	-120	-114	-92	-53	10	199	352	329	292	318	233
24	342	280	278	240	199	207	156	-14	-48	-50	-74	-93	-111	-117	-108	-83	-45	47	220	346	316	346	237	359
25	263	131	243	214	236	247	230	35	-48	-64	-85	-104	-113	-121	-94	-62	-47	19	122	128	132	187	324	192
26	379	396	403	415	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
27	****	****	****	124	93	62	52	-26	-60	-98	-103	-110	-96	-82	-97	-68	-56	9	109	168	192	384	377	395
28	299	333	205	332	277	244	204	37	-53	-66	-61	-88	-126	-113	-101	-77	-57	35	183	202	243	297	389	339
29	154	242	284	280	195	289	206	-14	-28	-48	-53	-69	-65	-72	-64	-58	-42	66	223	228	420	331	175	390
30	270	259	199	264	253	236	239	-17	-51	-61	-60	-68	-78	-88	-81	-73	-37	64	190	313	574	438	243	271

PERCENT VALID HOURS FOR SEPT, 1996 651*100/ 720= 90.4%

THREE HIGHEST VALUES FOR SEPT, 1996 XXXX(DD,HH) = 574(30,20) 572(4, 0) 529(3,23) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) OCT, 1996

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	321	323	285	270	268	277	268	13	-53	-53	-62	-70	-79	-94	-98	-78	-56	-2	122	334	232	180	200	302
2	272	283	338	218	254	204	200	124	-55	-47	-88	-63	-64	-71	-66	-64	-51	31	214	240	302	256	131	195
3	186	361	368	239	265	160	210	-2	-45	-68	-73	-82	-85	-97	-99	-91	-35	108	173	189	239	254	210	213
4	257	306	151	297	309	231	181	1	-51	-63	-58	-82	-108	-106	-100	-76	-48	36	77	228	368	147	128	147
5	210	272	251	189	237	184	147	7	-47	-42	-68	-60	-70	-75	-95	-67	-44	96	205	275	319	182	152	227
6	167	183	250	188	280	263	200	21	-58	-56	-56	-56	-67	-77	-64	-67	-37	120	229	377	409	379	573	399
7	236	398	287	412	****	****	****	****	-31	-53	-54	-61	-85	-77	-78	-72	-26	118	293	269	508	371	399	322
8	343	378	314	285	259	410	326	61	-49	-52	-66	-78	-83	-70	-61	-50	-9	146	304	418	391	394	261	408
9	296	327	284	259	270	278	311	4	-39	-54	-65	-73	-68	-84	-81	-57	6	206	258	245	234	491	430	393
10	213	266	391	255	363	392	176	-8	-38	-67	-70	-69	-101	-111	-91	-62	-13	94	140	141	448	240	253	392
11	286	304	288	252	260	234	239	10	-47	-63	-60	-73	-81	-93	-81	-62	-11	97	23	253	403	192	386	417
12	270	382	344	263	254	294	166	84	-37	-61	-62	-62	-84	-101	-84	-54	1	174	344	422	386	402	374	416
13	373	345	336	315	240	247	288	28	-55	-46	-31	-37	-81	-105	-107	-57	-3	107	262	262	383	315	304	373
14	276	322	256	235	258	326	153	37	-32	-52	-65	-69	-67	-68	-68	-56	-25	148	203	573	259	322	465	422
15	256	416	285	170	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	86	109	120	425	181	-54	-62	-73	-93	-82	-67	-61	-49	-32	65	159	483	285	346	261	416
18	239	250	250	238	188	208	120	26	-46	-55	-47	-64	-71	-103	-84	-56	-9	42	90	102	291	234	418	212
19	136	54	68	60	57	49	36	-13	-51	-82	-86	-88	-87	-97	-78	-58	-25	-11	-9	-8	11	16	33	17
20	16	74	141	164	134	111	47	-23	-56	-77	-88	-85	-78	-87	-84	-64	-24	14	34	57	87	206	313	178
21	220	383	356	156	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
22	****	****	****	469	386	313	259	109	-25	-40	-66	-58	-69	-63	-62	-46	-15	187	215	335	478	423	336	329
23	297	330	287	256	102	20	30	-21	-53	-55	-69	-62	-60	-75	-66	-45	4	187	253	390	399	374	371	414
24	336	194	216	224	272	220	56	46	-40	-49	-58	-60	-78	-51	-61	-30	-9	37	85	324	178	224	291	54
25	56	72	7	42	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	261	341	286	102	16	-49	-78	-90	-114	-99	-109	-64	-45	-24	-6	12	12	20	83	91	57
27	130	83	72	86	132	132	80	2	-49	-78	-96	-52	-47	-48	-48	-41	-38	-21	-27	-12	-23	-5	24	83
28	175	115	101	1	2	-20	-27	-38	-44	-49	-51	-47	-50	-56	-49	-43	-45	-31	-19	-7	73	80	191	169
29	67	73	69	76	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	38	39	31	29	15	-4	-33	-36	-39	-40	-39	-31	-33	-31	-53	-52	-56	-36	-33	-34	-33
31	-24	-25	-15	-13	-14	-9	-16	-29	-34	-37	-49	-47	-43	-50	-44	-39	-36	5	72	61	71	112	119	125

PERCENT VALID HOURS FOR OCT, 1996 624*100/ 744= 83.9%

THREE HIGHEST VALUES FOR OCT, 1996 XXXX(DD,HH) = 573(6,22) 573(14,19) 508(7,20) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) NOV, 1996

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	100	157	118	142	104	69	114	27	52	-8	-44	-53	-76	-74	-59	-26	96	128	87	108	144	110	92	75
2	73	238	195	124	233	416	360	329	159	56	27	14	-5	-21	20	39	83	130	172	96	213	128	185	115
3	106	179	229	295	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
4	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
5	****	****	****	81	258	263	149	134	20	-46	-45	-50	-46	-39	-33	-16	7	34	26	30	25	34	43	68
6	84	121	82	77	70	107	60	45	-12	-39	-52	-59	-49	-58	-50	-22	124	268	160	339	352	478	324	391
7	349	263	252	303	269	114	249	147	-17	61	-28	-49	-41	-56	-49	-23	20	205	192	341	476	232	204	283
8	241	342	222	238	304	250	260	110	66	-26	-31	-44	-50	-44	-36	-4	75	300	279	241	408	172	360	258
9	281	296	397	342	433	344	223	163	34	38	-29	-44	-47	-39	-29	-17	117	350	562	364	457	350	264	226
10	180	215	252	236	278	281	241	206	4	10	-40	-45	-43	-52	-39	25	147	104	200	175	153	260	135	216
11	212	207	239	166	184	249	138	25	43	-46	-50	-37	-43	-45	-42	5	157	335	269	354	313	199	236	152
12	162	180	155	165	134	255	187	114	40	-11	-43	-45	-55	-54	-32	50	158	308	203	67	174	276	245	369
13	241	262	134	221	136	206	162	112	40	-6	-42	-38	-49	-50	-23	50	106	335	214	197	272	301	291	351
14	254	229	208	229	210	129	110	114	56	-11	-37	-39	-48	-5	-23	55	193	252	192	248	185	340	364	337
15	322	163	160	257	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	74	51	74	40	98	47	134
18	181	156	97	184	245	99	78	27	-24	-43	-42	-68	-67	-70	-78	-46	9	169	345	193	156	158	197	204
19	210	197	222	191	205	156	148	65	8	-33	-40	-55	-45	-51	-55	52	90	90	146	224	196	243	346	222
20	278	361	227	302	199	287	280	111	-1	-45	-50	-53	-67	-60	-51	-9	58	200	239	210	169	247	210	214
21	243	85	14	87	157	108	95	16	-33	-26	-34	-37	-38	-37	-36	-36	-27	-26	-23	-4	6	24	18	19
22	29	27	28	35	25	20	27	25	-7	-24	-26	-38	-44	-39	-28	-5	42	114	118	96	250	163	231	158
23	156	148	49	85	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
24	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
25	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	120	109	79	42	110	23	-27	-35	-44	-49	-44	-31	-7	33	81	83	163	198	177	148	144
27	139	152	105	230	89	117	55	43	26	-19	-40	-52	-52	-51	-27	10	98	207	163	242	409	268	301	222
28	275	226	145	220	158	163	148	76	-16	-28	-33	-36	-18	-8	2	-4	68	239	283	134	50	48	42	53
29	84	98	64	161	75	88	87	38	14	-21	-42	-53	-64	-38	-21	-5	26	85	117	89	97	73	162	157
30	64	198	31	120	205	265	165	167	78	-10	-37	-43	-42	-51	-39	-2	71	278	234	226	294	253	202	271

PERCENT VALID HOURS FOR NOV, 1996 541*100/ 720= 75.1%

THREE HIGHEST VALUES FOR NOV, 1996 XXXX(DD,HH) = 562(9,18) 478(6,21) 476(7,20) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY TEMPERATURE DIFFERENCE, 2.0 M TO 16.0 M (DEG C) DEC, 1996

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	124	205	213	144	141	184	69	82	2	-40	-42	-55	-56	-61	-43	-3	51	183	165	245	172	94	162	130
2	91	66	294	169	436	222	216	187	112	-31	-42	-41	-48	-51	-42	-5	68	261	169	110	321	236	277	309
3	171	171	130	206	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
4	****	****	****	158	228	248	128	145	44	-44	-29	-41	-43	-43	-38	4	147	327	300	326	266	307	137	189
5	92	149	161	156	114	247	119	131	33	-37	-36	-37	-35	-35	-14	36	117	114	131	113	115	95	88	61
6	102	123	132	110	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
7	****	****	****	221	160	135	157	111	6	-42	-47	-54	-48	-51	-55	-30	51	114	325	259	95	218	252	201
8	199	230	284	185	183	171	223	123	-3	-36	-49	-40	-52	-47	-30	14	97	193	211	103	159	206	256	151
9	188	134	205	218	249	126	147	120	76	-19	-40	-45	-12	60	42	15	11	-1	12	32	1	19	55	10
10	22	32	59	48	47	71	72	63	24	7	-3	-10	-10	-2	-9	-2	3	16	21	8	10	15	31	31
11	19	28	34	35	39	52	48	10	20	-5	-9	-18	-26	-15	-11	16	51	126	148	71	56	197	94	133
12	182	183	250	177	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
13	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
14	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
15	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
16	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
17	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
18	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
19	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
20	****	****	****	159	186	161	179	154	-17	-35	-31	-28	-30	-26	1	92	123	206	162	154	189	125	145	119
21	146	88	80	120	141	118	150	87	51	-20	18	114	17	3	-12	7	16	23	21	24	21	12	7	7
22	9	18	13	8	3	-4	-5	2	61	-15	-20	-36	-45	-38	-20	-1	32	23	26	51	48	64	116	123
23	254	196	171	213	333	234	298	164	109	21	-52	-47	-61	-62	-58	-40	70	207	187	242	198	208	298	164
24	275	271	213	154	148	195	289	140	47	6	-31	-57	-45	-35	-30	79	119	133	94	368	296	255	270	237
25	155	179	169	158	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
26	****	****	****	159	88	95	117	198	62	-29	-27	-28	-36	-37	-26	13	68	168	287	126	207	190	66	57
27	50	54	65	50	159	105	90	65	57	72	58	-35	13	85	67	38	60	60	63	90	194	268	123	102
28	192	188	172	250	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
29	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****	****
30	****	****	****	65	161	133	57	35	23	0	-33	-34	-35	-33	-27	-6	29	20	57	81	45	89	57	50
31	91	53	108	67	68	146	105	173	152	-38	-42	-54	-55	-51	-43	-38	24	80	224	213	261	185	167	134

PERCENT VALID HOURS FOR DEC, 1996 437*100/ 744= 58.7%

THREE HIGHEST VALUES FOR DEC, 1996 XXXX(DD,HH) = 436(2, 4) 368(24,19) 333(23, 4) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY YAMARTINO SIGMA THETA 8 M STABILITY CLASS JAN, 1996

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

PERCENT VALID HOURS FOR JAN, 1996 552*100/ 744= 74.2%

THREE HIGHEST VALUES FOR JAN, 1996 XXXX(DD,HH) = 6(2, 4) 6(2, 5) 6(2, 6) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY YAMARTINO SIGMA THETA 8 M STABILITY CLASS FEB, 1996

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

PERCENT VALID HOURS FOR FEB, 1996 583*100/ 696= 83.8%

THREE HIGHEST VALUES FOR FEB, 1996 XXXX(DD,HH) = 6(1, 4) 6(1, 5) 6(1, 6) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY YAMARTINO SIGMA THETA 8 M STABILITY CLASS MAR, 1996

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

PERCENT VALID HOURS FOR MAR, 1996 615*100/ 744= 82.7%

THREE HIGHEST VALUES FOR MAR, 1996 XXXX(DD,HH) = 6(1, 0) 6(1, 1) 6(1, 3) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY YAMARTINO SIGMA THETA 8 M STABILITY CLASS APR, 1996

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

PERCENT VALID HOURS FOR APR, 1996 697*100/ 720= 96.8%

THREE HIGHEST VALUES FOR APR, 1996 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 MAY, 1996

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

PERCENT VALID HOURS FOR MAY, 1996 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR MAY, 1996 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, 1996

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

PERCENT VALID HOURS FOR JUNE, 1996 720*100/ 720=100.0%

THREE HIGHEST VALUES FOR JUNE, 1996 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, 1996

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

PERCENT VALID HOURS FOR JULY, 1996 744*100/ 744=100.0%

THREE HIGHEST VALUES FOR JULY, 1996 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 AUG, 1996

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

PERCENT VALID HOURS FOR AUG, 1996 732*100/ 744= 98.4%

THREE HIGHEST VALUES FOR AUG, 1996 XXXX(DD,HH) = 6(1, 0) 6(1, 1) 6(1, 3) (FIRST OCCURRENCE IN MONTH)

SPILL TEST FACILITY YAMARTINO SIGMA THETA 8 M STABILITY CLASS — SEPT, 1996

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

PERCENT VALID HOURS FOR SEPT, 1996 651*100/ 720= 90.4%

THREE HIGHEST VALUES FOR SEPT, 1996 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, 1996 — STBSIG8

LEAST SIGNIFICANT DIGIT = 1.000

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

PERCENT VALID HOURS FOR OCT, 1996 626*100/ 744= 84.1%

THREE HIGHEST VALUES FOR OCT, 1996 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 NOV, 1996

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

PERCENT VALID HOURS FOR NOV, 1996 541*100/ 720= 75.1%

THREE HIGHEST VALUES FOR NOV, 1996 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 DEC, 1996

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

PERCENT VALID HOURS FOR DEC, 1996 437*100/ 744= 58.7%

THREE HIGHEST VALUES FOR DEC, 1996 XXXX(DD,HH) = 6(1, 0) 6(1, 1) 6(1, 2) (FIRST OCCURRENCE IN MONTH)