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東海研究所気象観測年報(1983年)

1986年3月

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東海研究所気象観測年報（1983年）

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（1986年2月12日受理）

本報告は，東海研究所で行っている気象観測の結果について統計処理したものである。1983年1月から12月までの各月における風向，風速，気温，日射，放射収支および降水量についての統計結果を示す。

東海研究所：茨城県那珂郡東海村白方白根
＋　むつ事業所　定係港建設部
＊　科学技術庁出向中

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Report of Meteorological Observations at the Site of Tokai Research Establishment in 1983

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Results of meteorological observations such as wind speeds, wind directions, solar and net radiations, air temperatures at the site of Tokai Research Establishment in 1983 are summarized in the form of meteorological statistics in this report.

Hourly data (mean of 10 minutes of each hour) are used for the statistical calculation to obtain daily means of all observation items, monthly frequency distribution of wind speeds, atmospheric stabilities by wind directions and hourly means of wind speed in a month etc..

Keywords: Annual Report, Wind Direction, Wind Speed, Meteorological Observation, Meteorological Statistics, Atmospheric Stability, Tokai-Site

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+ Mutsu Establishment

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1. まえがき

東海研究所では構内の気象観測塔（地上40 m），露場などにおいて気象観測を行っている。これらの観測結果は記録紙上に連続記録されるとともに，環境放射線監視装置により10 分毎に収集され，磁気テープに記録される。本年報では，1983年1月から12月までの各正時の観測値について統計処理したものをまとめた。

統計項目と統計結果は以下のとおりである。

(1) 年間統計項目

a. 観測要素の月別欠測回数（Table 4.1－1）

b. 年間風向出現頻度（Table 4.1－2，Fig. 4.1－1）

c. 月間平均（静穏，風速，日射，放射収支，気温，湿度）および総量（降水量）（Table 4.1－3，Fig. 4.1－2～5）

d. 大気安定度年間出現頻度（Table 4.1－4，Fig. 4.1－6）

e. 極値（Table 4.1－5）

(2) 月間統計項目

a. 日・月平均（気温，湿度，日射．放射収支，風速）および日・月総量（降水量)(Table 4.2－x A[*注]）

b. 月間風向出現頻度（Table 4.2－xB）

c. 時刻別平均および標準偏差（風速，気温，湿度，気温減率，大気安定度比，日射，放射収支（Table 4.2－xC）

d. 月間風向別大気安定度出現頻度（Table 4.2－xD）

e. 月間風速階級別風向出現頻度（Table 4.2－xE）

2. 測　　器

(1)	風向・風速	プロペラ型風向風速計
(2)	気温・気温差	白金抵抗温度計
(3)	日　射	差温熱電堆式日射計
(4)	放射収支	通風式風防型示差放射計
(5)	降水量	転倒ます型雨量計
(6)	湿　度	Dewcel露点計で得られた露点温度と1.5 m 高の気温から計算により求めた。

注）xは月（1月～12月）に対応する。

1. まえがき

東海研究所では構内の気象観測塔（地上 40 m），露場などにおいて気象観測を行っている。これらの観測結果は記録紙上に連続記録されるとともに，環境放射線監視装置により 10 分毎に収集され，磁気テープに記録される。本年報では，1983 年 1 月から 12 月までの各正時の観測値について統計処理したものをまとめた。

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b. 月間風向出現頻度（Table 4.2－xB）

c. 時刻別平均および標準偏差（風速，気温，湿度，気温減率，大気安定度比，日射，放射収支（Table 4.2－xC）

d. 月間風向別大気安定度出現頻度（Table 4.2－xD）

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注）xは月（1月～12月）に対応する。

3. データ整理方法および統計項目の定義

(1) データ整理方法

環境放射線監視装置により自動収集された10分毎の観測データをTable 3.1に示す方法で磁気テープに再編集し，統計処理に使用した。

(2) 統計項目の定義等

各統計項目の定義等をTable 3.2およびTable 3.3に示す。

Table 3.1 Methods of data arrangements

Items	Units	Data arrangement methods
Wind Direction	16 directions	Ten minutes average before every hour
Wind Speed	m/s	
Solar Radiation	kw/m^2	
Net Radiation	"	
Air Temperature	°C	Instantaneous value of every hour
Air Temperature Gradient	"	
Dew-point Temperature	"	
Precipitation	mm	One hour accumulated value before every hour

Table 3.2 Definitions of statistical itms

Items	Definitions	Units
Calm	Wind Speed $\leq$ 0.4 m/s	—
Air Temperature	1.5 m above the ground	°C
Temperature Lapse Rate	$\frac{\text{Air Temp. (40m)} - \text{Air Temp. (1.5m)}}{38.5} \times 100$	°C/100m
Stability	See Table 3.3	—
Stability Ratio	Temperature Lapse Rate / [Wind Speed (10m)]^2	°C/100m·(m/s)^2
Solar Radiation	Jan. ∿ Mar., Sep. ∿ Dec. --- 8 ∿ 16 o'clock	
	Apr., May, Jul., Aug. ---- 7 ∿ 17 o'clock	kw/m^2
	Jun. ---------- 7 ∿ 18 o'clock	
Net Radiation	Jan. ∿ Mar., Sep. ∿ Dec. --- 17 ∿ 7 o'clock	
	Apr., May, Jul., Aug. ---- 18 ∿ 6 o'clock	kw/m^2
	Jun. ---------- 19 ∿ 6 o'clock	

Table 3.3 Classification of stability

Wind Speed (u) m/s	Solar Radiation (S) kw/m^2				Net Radiation (N) kw/m^2		
	S≥0.60	0.60>S≥0.30	0.30>S≥0.15	0.15>S	N≥-0.020	-0.020>N≥-0.040	-0.040>N
u<2	A	A-B	B	D	D	G	G
2≤u<3	A-B	B	C	D	D	E	F
3≤u<4	B	B-C	C	D	D	D	E
4≤u<6	C	C-D	D	D	D	D	D
6≤u	C	D	D	D	D	D	D

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4. 統 計 結 果

4.1 年間統計結果

(1) 風向

風向は年間を通して北西及び北東風が卓越しており，出現頻度は40 m高でそれぞれ14.2 %，16.9 %である。

(2) 風速

各測高における年平均風速は10 m高が1.7 m／s，20 m高が2.4 m／s，40 m高が3.5 m／sと平年なみである。また静穏は10 m高において1月から3月にかけ多く出現し，他の測高の傾向と異っている。

(3) 気温

気温は6月，7月が平年に比べ若干低めであるが，年平均気温は12.9度と平年なみである。

(4) 降水量

年積算降水量は1142.5 mmで平年なみである。

(5) その他

真冬日（日最高気温が0 ℃未満の日）	0日
冬日（日最低気温が　〃　）	82日
真夏日（日最高気温が30 ℃以上の日）	13日
夏日（　〃　25 ℃　〃　）	44日
日総降水量が50 mm以上の日	1日
〃　100 mm以上の日	0日
降水日数（0.5 mm以上）	116日

Table 4.1-1 Occurrence frequencies of lack in month

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Elements		Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual (%)
Wind Direction	10m	46	0	7	0	1	6	28	2	1	24	2	32	149 (1.7)
	20m	22	0	7	0	1	6	28	2	1	25	2	32	126 (1.4)
	40m	22	0	7	0	1	6	28	2	1	24	2	32	125 (1.4)
Wind Speed	10m	32	1	7	0	1	6	11	2	1	24	2	32	119 (1.4)
	20m	22	0	7	0	1	6	11	2	1	24	2	32	108 (1.2)
	40m	22	0	7	0	1	6	11	2	1	24	2	32	108 (1.2)
Solar Radiation	5m	7	7	7	0	1	3	5	2	1	13	0	18	64 (0.7)
Net Radiation	1.5m	15	0	0	0	0	3	19	0	0	11	2	14	64 (0.7)
Air Temperature	1.5m	22	0	7	0	1	7	24	2	2	24	3	32	124 (1.4)
Precipitation		19	0	6	0	0	2	16	0	0	21	1	29	94 (1.1)
Humidity	1.5m	22	1	8	28	13	9	26	2	3	25	4	32	173 (2.0)

Table 4.1-2 Frequency distributions of wind direction

Observation height	Calm	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10m	16.8	5.6	15.7	8.4	4.1	2.4	2.3	2.2	4.2	1.8	2.3	2.9	3.7	7.2	12.4	5.3	2.7
20m	8.2	7.2	16.9	7.6	3.7	2.5	2.3	2.9	3.7	1.9	2.7	3.9	5.2	9.0	13.4	5.8	3.2
40m	2.1	6.0	16-9	9.1	4.1	2.6	2.8	4.5	3.0	2.1	3.5	3.4	4.1	7.4	14.2	9.9	4.3

Table 4.1-3 Monthly averages

JAERI-Tokai 1983

Elements		Units	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Calm	10m	%	19.6	20.3	19.4	17.8	19.9	13.0	17.2	15.8	19.2	15.3	12.5	11.8	16.8
	20m		4.8	4.8	7.3	9.9	13.9	12.0	15.6	9.2	8.6	5.4	3.6	2.9	8.2
	40m		1.0	1.3	1.6	3.3	2.8	2.8	3.5	3.6	2.2	1.2	1.0	1.1	2.1
Wind Speed	10m	m/s	1.3	1.6	1.8	1.8	2.1	2.1	1.9	2.0	1.7	1.3	1.6	1.3	1.7
	20m		2.1	2.3	2.6	2.5	2.7	2.7	2.5	2.7	2.4	1.9	2.4	2.1	2.4
	40m		3.4	3.5	3.8	3.6	3.8	3.6	3.3	3.7	3.3	3.0	3.8	3.4	3.5
Solar Radiation	5m	$MJ/m^2 \cdot day$	8.6	12.1	14.6	15.9	22.9	19.8	14.3	16.9	12.3	12.1	10.4	9.6	14.1
Net Radiation	1.5m		2.6	2.7	2.2	1.6	1.6	1.2	0.9	1.0	1.3	1.7	2.4	2.8	1.8
Air Temperature	1.5m	°C	3.0	3.0	6.4	12.8	16.2	17.3	20.5	24.4	21.3	15.5	9.9	4.0	12.9
Preeipitation		mm	19.0	48.5	124.0	138.0	91.5	173.5	168.5	51.5	168.5	95.5	54.5	9.5	1142.5
Humidity	1.5m	%	61.1	60.8	68.5	79.6	77.0	81.8	86.0	84.1	79.8	71.7	69.0	58.5	73.2

Table 4.1-4 Frequency distribution of stability

Stability	A	A-B	B	B-C	C	C-D	D_1	D_2	E	F	G
Frequency (%)	2.8	10.8	10.3	1.6	4.4	1.1	10.1	22.7	2.4	2.1	31.6

Table 4.1-5 Extreme

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Elements			Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Wind Speed (m/s)	10m	Max.(*)	14.3	11.2	13.0	11.3	13.0	9.8	10.0	11.4	16.1	8.6	10.9	9.2	16.1
		Date	18 12:25	18 0:10	13 16:30	27 13:05	7 11:30	11 17:00	12 8:50	15 6:50	29 1:25	11 15:20	12 15:15	26 7:00	29/Sep.
	20m	Max.(*)	12.8	14.7	15.6	13.7	16.8	10.2	11.6	13.5	18.4	10.0	17.0	13.4	18.4
		Date	18 12:35	9 14:35	13 16:40	27 13:50	7 10:15	15 20:00	12 20:35	15 8:10	28 22:05	11 11:05	17 15:25	26 7:00	28/Sep.
	40m	Max.(*)	16.8	16.5	15.0	15.2	18.2	11.5	12.3	13.8	18.3	11.1	19.0	13.8	19.0
		Date	30 18:45	17 22:00	14 11:10	27 13:50	7 11:00	11 20:10	28 0:40	15 6:55	28 19:45	27 12:00	17 16:25	26 7:00	17/Nov.
Air Temperature (°C)	Maximum		15.0	13.3	16.0	26.5	26.8	27.6	31.5	34.6	31.5	26.4	20.8	15.5	34.6
	Date		29 13:50	6 14:30	23 11:30	27 15:10	6 12:00	1 14:00	28 11:30	7 13:50	6 10:50	1 12:40	17 12:45	3 13:35	7/Aug.
	Minimum		-7.6	07.6	03.5	3.6	7.0	9.3	13.7	19.0	14.6	1.8	-1.9	-5.0	-7.6
	Date		23 5:50	14 6:00	9 6:15	3 5:10	18 4:40	5 4:25	13 1:20	2 7:40	30 3:40	31 6:00	28 6:00	21 7:10	14/Fab.
	Daily mean (max)		7.9	5.6	11.1	21.0	20.9	21.0	26.7	28.9	26.9	20.7	14.4	7.2	28.9
	Date		8	15	23	27	30	9	31	7	6	5	10,11	1	7/Aug.
	Daily mean (min)		-1.5	-1.2	1.8	8.8	12.0	14.7	15.2	20.6	16.4	8.8	3.7	0.3	-1.5
	Date		23	13	5	5	26	5	8	2	28	31	27	25	23/Jan.
Precipitation (mm)	Hourly max.		2.0	4.0	4.5	11.5	8.0	18.0	19.5	5.0	7.5	9.0	8.5	4.0	19.5
	Date		18 9	17 12	13 18	1 21	13 5	21 3	25 18	17 9	28 21	9 8	24 9	23 3	25/Jul.
	Daily max.		13.5	33.5	28.0	39.5	40.5	47.0	41.5	26.5	74.0	20.0	24.5	5.0	
	Date		18	17	13	1	16	21	5	17	28	19	24	23	28/Sep.
	Monthly max.		173.5	Jun.											

(*) Maximum instantaneous wind speed

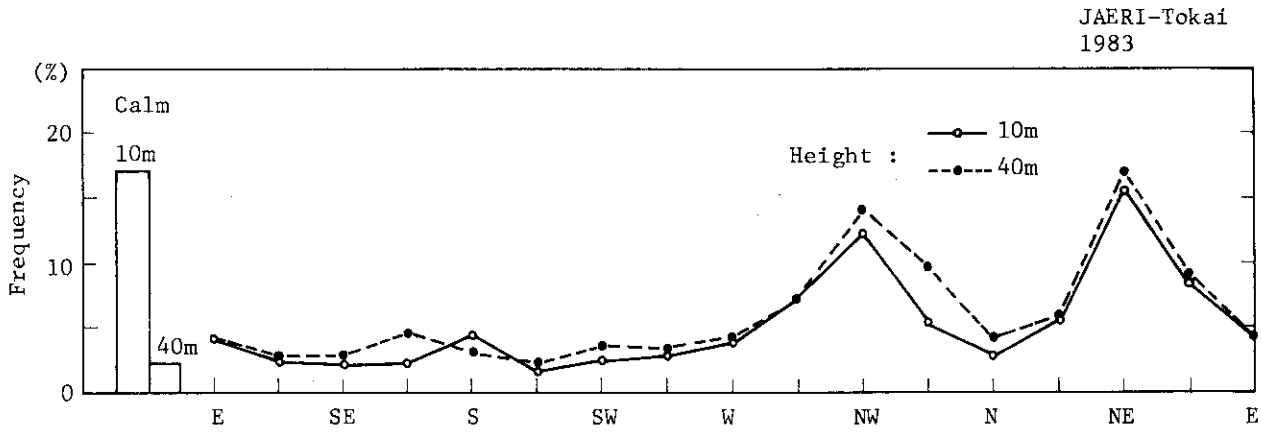

Fig. 4.1-1 Frequency distribution of wind direction

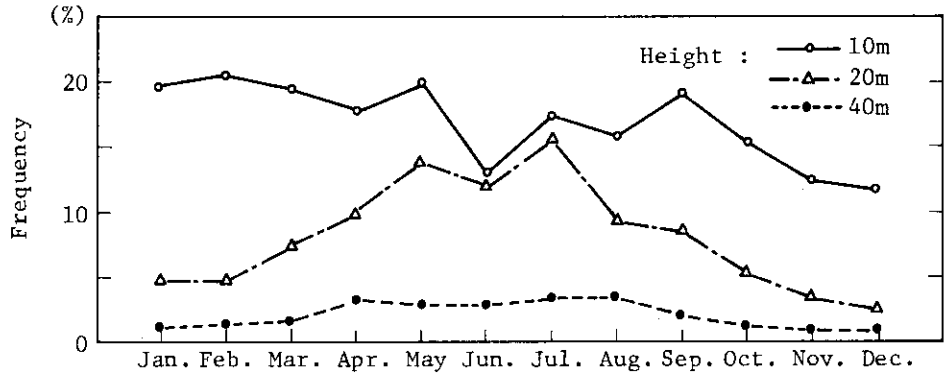

Fig. 4.1-2 Frequency distribution of calm

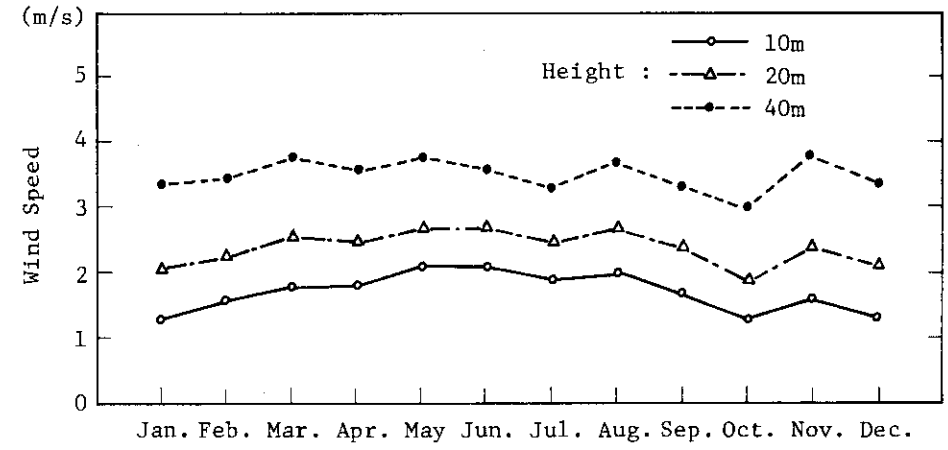

Fig. 4.1-3 Monthly mean wind speed

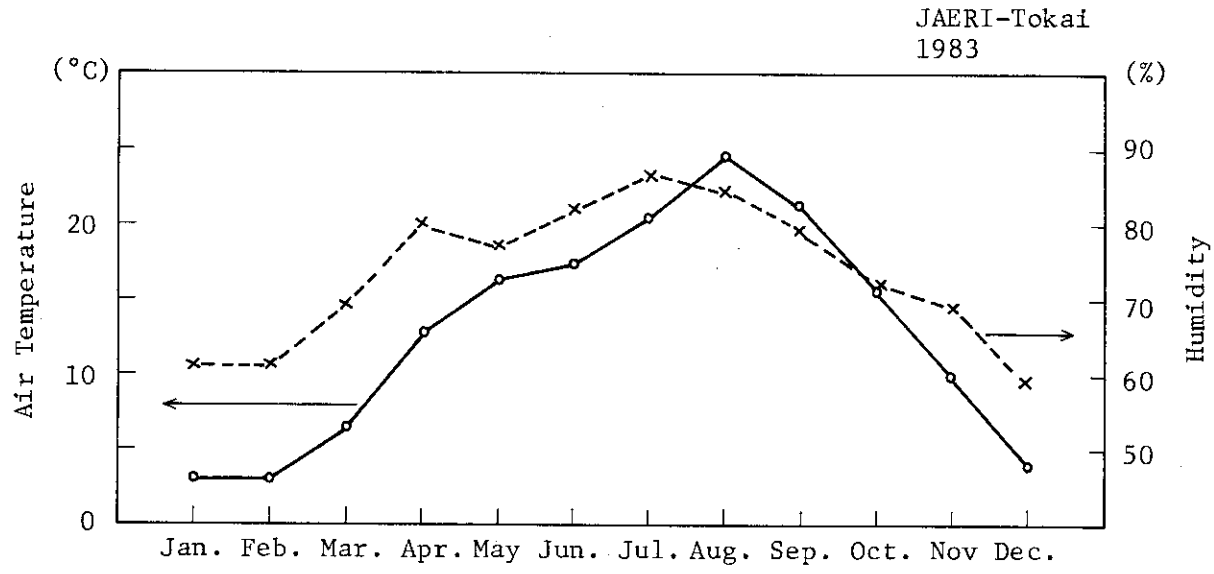

Fig. 4.1-4 Monthly mean of air temperature and humidity

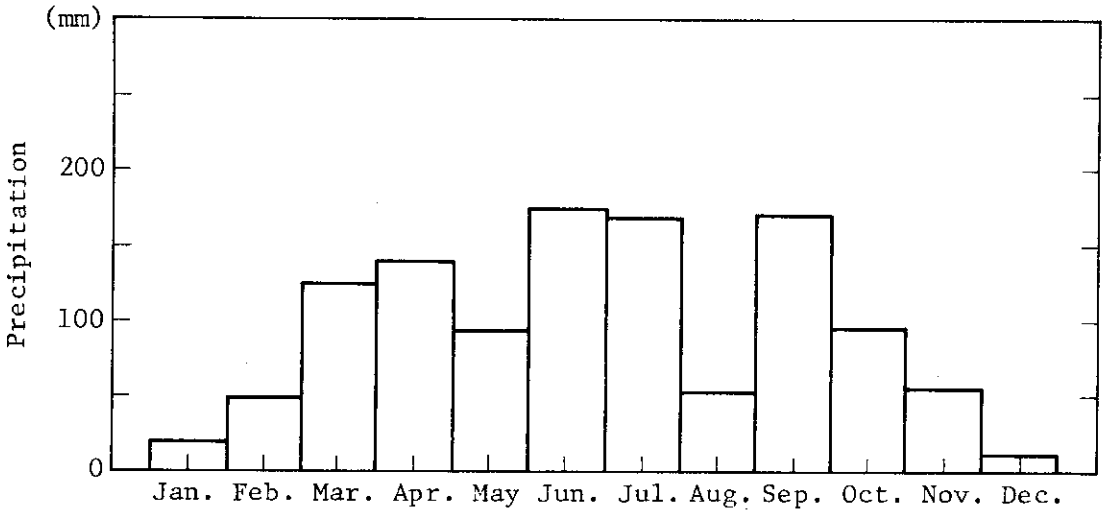

Fig. 5.1-5 Monthly precipitation

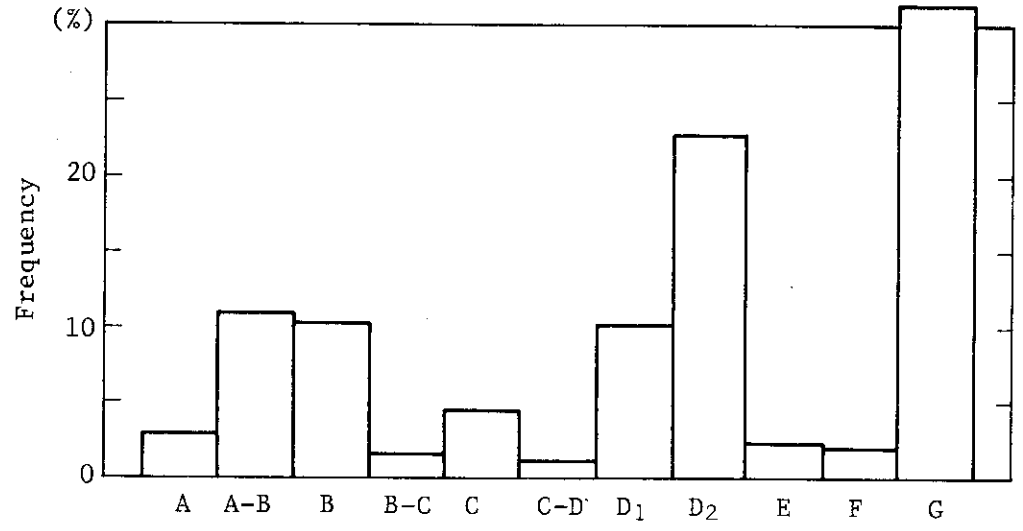

Fig. 4.1-6 Frequency distribution of stability

4.2 月間統計結果

TABLE 4.2- 1A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMID-ITY PERCENT	PRECIP-ITAT. MM	SOLAR RAD. MJ/SQ(M)/DAY	NET RAD.	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	2.0	51.8	0.0	7.9	3.2	1.1	1.6	3.2
2	1.4	57.5	0.0	9.2	3.0	1.3	1.7	3.4
3	2.5	50.9	0.0	9.4	3.6	1.2	1.8	3.4
4	1.4	60.5	0.0	10.0	2.9	0.8	1.5	2.5
5	3.8	74.2	0.0	2.8	0.9	0.6	1.2	2.3
6	7.5	70.8	0.5	3.3	1.3	3.5	4.5	6.0
7	6.8	72.1	0.0	7.1	1.4	1.3	1.8	2.7
8	7.9	80.5	1.0	1.5	0.7	1.5	2.4	3.8
9	4.6	50.3	0.0	7.2	2.0	0.9	1.2	2.3
10	0.5	52.8	0.0	7.5	3.7	1.4	2.2	3.8
11	0.6	46.5	0.0	9.9	3.8	1.2	2.4	3.7
12	1.5	58.1	0.0	9.8	3.1	0.8	1.7	2.6
13	4.2	66.9	0.0	10.1	1.4	1.0	1.7	3.1
14	2.0	46.9	0.0	9.8	3.7	0.8	1.9	3.3
15	1.8	54.1	0.0	9.7	3.3	1.0	1.4	3.1
16	1.6	55.6	0.0	11.2	****	0.8	1.4	2.7
17	7.4	60.8	0.0	10.1	1.4	1.3	2.1	3.0
18	3.8	84.7	13.5	0.9	0.7	3.6	4.6	6.1
19	3.4	78.2	4.0	6.8	0.9	1.3	2.1	2.9
20	2.0	67.7	0.0	8.9	2.8	1.7	2.3	4.1
21	0.5	65.7	0.0	8.7	3.1	1.0	1.5	2.6
22	-0.0	46.1	0.0	10.2	3.5	1.7	2.2	4.3
23	-1.5	55.3	0.0	11.3	3.7	0.7	1.7	2.9
24	2.3	52.5	0.0	10.8	3.3	1.3	2.4	3.6
25	2.3	74.0	0.0	9.8	2.8	1.1	1.8	3.0
26	4.0	58.1	0.0	11.2	2.8	1.2	2.0	3.4
27	3.6	52.3	0.0	10.3	3.2	1.0	2.0	3.4
28	4.1	62.4	0.0	11.2	2.9	0.8	1.6	2.9
29	5.2	64.6	0.0	10.9	2.8	1.3	2.2	3.0
30	5.1	76.5	0.0	7.8	1.5	2.5	3.5	5.0
31	3.2	46.3	0.0	11.8	3.3	1.0	1.6	3.0
MONTH	3.0	61.1	19.0	8.6	2.6	1.3	2.1	3.4
LACK	22	22	19	7	15	32	22	22

TABLE 4.2- 1B DISTRIBUTION OF WIND DIRECTION FREQUENCIES (%)

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	19.6	7.3	5.6	2.1	0.9	0.4	2.0	1.3	1.6	1.4	1.7	2.1	8.3	15.7	19.3	7.0	3.6
20M	4.8	6.1	6.6	2.2	1.1	1.0	1.9	2.6	1.9	1.5	2.1	3.3	8.6	19.3	22.4	10.0	4.4
40M	1.0	6.6	7.6	2.4	1.5	0.8	2.8	2.4	1.9	1.5	1.9	3.9	6.0	14.7	24.1	14.5	6.4

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TABLE 4.2- 1C HOURLY AVERAGES AND STANDARD DEVIATIONS

TIME(HR)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WIND SPD																								
H=																								
10M																								
MEAN	1.2	1.0	1.0	1.2	1.1	1.2	1.2	1.3	1.2	1.3	1.5	1.8	1.7	1.9	1.6	1.6	1.3	1.2	1.3	1.1	1.3	1.3	1.2	1.3
SIGM	0.9	0.7	0.6	1.0	1.1	1.1	0.9	1.1	1.2	1.4	1.4	1.4	1.4	1.3	1.2	1.4	1.4	1.4	1.3	1.0	0.8	0.9	1.1	0.9
20M																								
MEAN	1.9	1.6	1.7	2.0	1.9	2.0	1.8	1.8	1.7	2.0	2.3	2.8	2.7	2.8	2.5	2.3	2.0	2.0	2.1	1.8	1.9	1.9	1.8	2.1
SIGM	1.0	0.9	0.8	1.2	1.3	1.4	1.1	1.3	1.5	1.7	1.6	1.5	1.6	1.3	1.2	1.5	1.7	1.6	1.6	1.3	1.0	1.1	1.2	1.1
40M																								
MEAN	3.3	3.0	3.0	3.6	3.4	3.6	3.5	3.1	2.5	2.8	3.1	3.8	3.9	3.9	3.7	3.7	3.3	3.5	3.7	3.3	3.5	3.5	3.4	3.5
SIGM	1.1	1.0	0.9	1.2	1.5	1.6	1.1	1.5	1.8	2.1	2.2	2.0	2.4	1.9	1.7	1.9	2.1	1.9	2.1	1.6	1.5	1.2	1.5	1.2
TEMPERA-																								
TURE																								
MEAN	0.4	0.0	-0.2	-0.4	-0.6	-0.7	-0.8	0.5	2.8	5.2	6.6	7.3	7.5	7.8	7.4	7.0	5.5	4.3	3.7	2.8	2.2	1.7	1.3	0.9
SIGM	3.1	3.0	3.2	3.3	3.5	3.4	3.3	2.9	2.3	2.3	2.3	2.3	2.6	2.5	2.4	2.3	2.5	2.6	2.6	2.8	2.9	2.8	2.9	3.0
HUMIDITY																								
MEAN	69.4	71.0	72.3	72.2	72.6	71.8	72.3	69.0	61.9	51.0	46.6	46.2	45.9	46.0	45.7	48.7	55.0	58.2	60.4	64.2	65.2	66.6	67.3	69.0
SIGM	11.1	11.4	10.3	10.5	11.2	11.9	11.8	12.4	13.1	16.0	16.4	16.7	17.0	17.6	18.7	17.8	15.9	15.0	15.0	14.8	14.7	14.1	13.6	12.3
LAPSE																								
RATE																								
MEAN	3.4	4.3	4.1	3.6	3.6	3.6	4.3	0.8	-2.1	-3.2	-3.2	-3.3	-2.9	-2.7	-2.0	-1.1	1.4	3.2	3.3	3.4	2.3	2.9	2.0	2.9
SIGM	3.6	4.4	5.0	4.3	3.6	4.0	4.1	3.4	2.0	0.8	0.9	0.8	0.7	0.5	0.5	1.0	3.1	4.4	4.3	4.9	3.5	4.0	3.1	3.2
STABIL.																								
RATIO																								
MEAN	1.6	1.6	1.9	1.1	0.9	1.7	2.0	0.3	-1.5	-1.2	-1.0	-1.1	-1.0	-0.9	-0.6	-0.4	-0.2	0.4	1.1	1.5	1.1	1.6	0.4	1.2
SIGM	2.3	2.8	3.3	1.8	1.2	2.5	2.7	2.1	1.0	1.2	0.9	1.0	0.9	0.7	0.4	0.3	0.5	1.7	2.3	2.8	2.3	2.7	1.5	2.1
RADIA-																								
TION																								
MEAN	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.8	1.2	1.5	1.4	1.3	1.1	0.7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
SIGM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.5	0.5	0.6	0.5	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TABLE 4.2- 1D FREQUENCY DISTRIBUTIONS OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A-B	75	0	0	1	2	2	9	2	2	4	3	6	10	17	9	4	2	2
B	87	1	7	1	1	3	6	5	2	1	3	2	7	21	20	2	1	4
B-C	3	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
C	14	0	0	2	1	0	0	0	2	0	0	0	0	1	0	6	2	0
C-D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D1	85	8	10	4	3	1	3	3	3	1	2	3	9	16	11	5	2	1
D2	95	18	12	4	0	0	0	0	0	0	1	4	5	21	18	7	5	0
E	11	7	2	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
F	15	5	0	1	0	0	0	0	0	0	0	0	0	0	6	2	1	0
G	327	16	7	2	1	0	0	1	4	5	8	8	43	66	97	33	21	15
LACK	32	1	0	0	0	0	0	0	0	0	0	1	3	1	1	1	0	24

TABLE 4.2- 1E FREQUENCY DISTRIBUTIONS OF WIND DIRECTION AND SPEED

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
10M																			
-0.4	136																	3	139
0.5-0.9		7	2	1	1	1	2	1	1	2	5	4	26	39	48	11	10	11	172
1.0-1.9		10	7	6	3	0	12	5	4	8	7	9	27	62	65	26	11	7	269
2.0-2.9		11	8	5	2	2	0	3	5	0	0	1	2	7	17	9	2	1	75
3.0-3.9		9	7	1	0	0	0	0	1	0	0	0	0	0	3	2	2	0	25
4.0-4.9		10	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
5.0-5.9		4	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
6.0-6.9		0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7.0-7.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0-8.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		1	0	0	0	0	0	0	0	0	0	1	3	1	1	1	0	24	32
TOTL	136	52	40	15	6	3	14	9	11	10	12	15	58	109	134	49	25	46	744
20M																			
-0.4	35																	0	35
0.5-0.9		1	0	2	1	2	0	1	1	2	1	1	5	12	30	20	4	0	83
1.0-1.9		12	4	3	1	3	9	5	5	4	8	4	20	57	91	31	17	0	274
2.0-2.9		8	8	3	5	2	5	12	4	5	5	16	27	55	30	16	7	0	208
3.0-3.9		8	10	3	1	0	0	1	4	0	1	2	5	13	9	4	2	0	63
4.0-4.9		5	8	2	0	0	0	0	0	0	0	1	3	2	2	1	1	0	25
5.0-5.9		5	6	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	14
6.0-6.9		4	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
7.0-7.9		1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
8.0-8.9		0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22
TOTL	35	44	48	16	8	7	14	19	14	11	15	24	62	139	162	72	32	22	744
40M																			
-0.4	7																	0	7
0.5-0.9		1	1	0	1	1	0	0	0	0	0	1	2	2	4	0	3	0	16
1.0-1.9		6	1	2	2	2	2	1	3	3	2	3	9	20	17	13	6	0	92
2.0-2.9		15	6	3	0	1	14	7	6	3	6	4	10	40	41	20	21	0	197
3.0-3.9		6	8	2	3	2	3	6	3	5	4	12	11	33	72	33	9	0	212
4.0-4.9		5	14	2	4	0	1	3	2	0	2	7	5	8	21	22	4	0	100
5.0-5.9		6	6	3	1	0	0	0	0	0	0	1	2	1	11	9	1	0	41
6.0-6.9		1	5	0	0	0	0	0	0	0	0	0	3	2	5	3	2	0	21
7.0-7.9		7	7	2	0	0	0	0	0	0	0	0	1	0	3	2	0	0	22
8.0-8.9		0	2	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	5
9.0-9.9		1	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
10.0-		0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22
TOTL	7	48	55	17	11	6	20	17	14	11	14	28	43	106	174	105	46	22	744

TABLE 4.2- 2A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMID-ITY PERCENT	PRECIP-ITAT. MM	SOLAR RAD. MJ/SQ(M)/DAY	NET RAD.	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	4.1	63.3	0.0	6.7	0.9	1.3	1.9	3.0
2	4.4	88.1	5.0	1.1	0.5	1.8	2.6	3.7
3	4.8	60.4	1.5	8.8	2.6	1.4	2.1	3.5
4	1.7	59.3	0.0	12.5	3.4	1.0	1.6	2.7
5	3.2	59.8	0.0	12.1	3.0	1.2	2.1	3.2
6	4.1	69.1	0.0	11.2	2.9	1.5	2.3	3.5
7	4.0	60.5	2.0	10.3	1.8	1.5	2.3	3.8
8	2.1	62.2	0.0	12.5	3.0	1.0	1.5	2.5
9	1.9	56.6	0.0	12.7	3.4	1.2	2.2	3.7
10	2.8	58.7	0.0	11.8	1.9	1.7	2.7	3.9
11	1.9	56.8	0.0	13.2	3.6	1.3	2.3	3.5
12	0.7	60.0	0.0	13.1	3.2	1.8	2.9	4.0
13	-1.2	43.8	0.0	13.8	4.0	1.3	1.9	3.3
14	-0.5	50.6	0.0	13.9	3.1	1.3	2.0	2.7
15	5.6	49.8	0.0	11.7	2.3	1.9	2.9	4.1
16	4.7	57.9	0.0	12.7	2.4	1.8	2.8	4.0
17	4.4	85.5	33.5	1.3	1.4	5.6	7.3	9.3
18	4.5	88.5	2.0	5.4	1.3	1.8	2.5	3.6
19	3.4	58.8	0.0	16.4	2.9	1.3	2.0	3.0
20	1.7	46.3	0.0	17.5	3.1	1.3	1.8	2.7
21	2.6	38.2	0.0	17.6	4.1	2.2	2.8	3.9
22	2.6	49.0	0.0	18.5	3.2	1.1	1.6	2.5
23	4.9	57.1	0.0	15.0	2.5	1.0	1.5	2.3
24	3.0	84.3	4.5	1.6	0.8	2.6	3.2	4.0
25	3.1	69.8	0.0	15.0	2.8	0.6	1.2	2.2
26	2.4	51.0	0.0	19.3	3.8	1.0	1.8	3.0
27	2.9	55.5	0.0	16.9	3.5	0.9	1.6	2.3
28	4.3	61.4	0.0	19.6	3.5	1.1	1.9	2.7
MONTH	3.0	60.8	48.5	12.1	2.7	1.6	2.3	3.5
LACK	0	1	0	7	0	1	0	0

TABLE 4.2- 2B DISTRIBUTION OF WIND DIRECTION FREQUENCIES (%)

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	20.3	10.3	7.4	4.3	1.5	1.0	1.5	1.3	1.6	2.2	2.8	4.0	4.3	12.1	14.9	7.0	3.4
20M	4.8	11.5	7.1	3.7	1.5	0.9	2.1	1.2	1.3	2.5	3.3	5.7	9.4	16.4	16.5	7.4	4.8
40M	1.3	8.8	10.0	3.7	2.2	1.3	2.2	1.0	1.6	1.6	3.7	4.0	6.8	10.1	22.8	13.4	5.2

TABLE 4.2- 2C HOURLY AVERAGES AND STANDARD DEVIATIONS

TIME(HR)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WIND SPD																								
H=																								
10M																								
MEAN	0.9	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.3	1.9	2.1	2.5	2.8	2.5	2.6	2.5	1.7	1.6	1.5	1.5	1.3	1.3	1.3	1.0
SIGM	1.1	1.1	1.1	1.0	1.0	1.0	1.1	1.3	1.3	1.4	1.2	1.2	1.0	1.2	1.0	1.2	1.1	1.1	1.1	1.3	1.3	1.5	1.5	1.3
20M																								
MEAN	1.6	1.7	1.7	1.7	1.8	1.8	2.0	1.7	1.7	2.4	2.9	3.4	3.8	3.4	3.5	3.2	2.4	2.4	2.4	2.4	2.1	2.1	2.2	1.9
SIGM	1.4	1.3	1.4	1.2	1.3	1.2	1.4	1.6	1.7	1.7	1.4	1.4	1.4	1.5	1.4	1.5	1.5	1.5	1.5	1.7	1.6	1.8	1.7	1.6
40M																								
MEAN	2.9	3.1	2.9	2.9	2.9	3.2	3.1	2.6	2.2	3.1	3.6	4.3	4.7	4.5	4.6	4.3	3.8	3.8	3.7	3.8	3.2	3.4	3.4	3.0
SIGM	1.7	1.5	1.6	1.3	1.4	1.4	1.5	1.7	2.0	2.1	1.8	1.8	1.9	1.8	1.8	2.2	2.2	2.0	2.1	2.2	2.1	2.2	2.0	1.7
TEMPERA-																								
TURE																								
MEAN	0.2	0.0	-0.2	-0.5	-2.3	-1.0	-1.1	0.8	3.3	5.2	6.4	7.0	7.5	7.5	7.3	6.8	5.9	4.8	4.2	3.6	2.6	2.0	1.2	0.7
SIGM	2.7	2.7	2.8	3.0	9.0	3.1	2.9	2.2	1.4	1.6	2.0	2.4	2.3	2.4	2.5	2.1	2.0	2.0	2.1	2.2	2.2	2.7	2.6	2.6
HUMIDITY																								
MEAN	69.0	70.8	70.7	73.0	75.5	76.3	76.3	69.7	60.6	51.4	48.4	45.6	43.9	44.3	45.6	49.8	54.5	57.6	57.3	58.4	62.9	64.3	66.5	68.0
SIGM	13.6	12.6	12.8	11.4	10.9	10.9	10.4	13.1	17.8	21.3	22.0	21.7	21.6	21.6	21.1	20.3	18.9	17.1	16.9	15.6	15.8	15.8	14.6	14.6
LAPSE																								
RATE																								
MEAN	2.8	3.4	3.9	2.9	3.5	3.8	3.2	-1.5	-3.4	-3.7	-3.7	-3.8	-3.6	-3.2	-2.6	-1.9	-1.1	0.0	0.2	0.4	1.3	2.3	2.2	2.6
SIGM	3.5	4.1	4.0	3.8	4.3	4.6	4.0	1.9	0.8	0.9	0.9	0.9	0.9	0.7	0.6	0.7	0.9	2.2	2.3	2.4	3.0	3.8	3.6	3.7
STABIL.																								
RATIO																								
MEAN	****	****	****	****	****	****	****	****	****	-1.3	-1.4	-1.0	-0.7	-0.8	-0.5	-0.5	-0.5	-0.2	-0.0	0.2	0.2	****	****	****
SIGM	****	****	****	****	****	****	****	****	****	0.9	1.0	0.8	0.6	0.9	0.3	0.4	0.4	0.5	1.0	1.3	0.8	****	****	****
RADIA-																								
TION																								
MEAN	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.7	1.2	1.7	1.8	1.9	1.9	1.4	1.0	0.5	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
SIGM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.5	0.7	0.8	0.9	0.8	0.7	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TABLE 4.2- 2D FREQUENCY DISTRIBUTIONS OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	17	0	0	0	0	2	1	1	0	3	0	2	3	2	1	1	1	0
A-B	76	0	1	3	0	2	4	3	0	2	5	7	11	13	14	9	2	0
B	64	3	2	1	2	0	4	2	4	0	1	6	4	14	14	4	3	0
B-C	9	0	2	0	0	0	0	0	2	1	3	1	0	0	0	0	0	0
C	21	1	4	1	0	0	1	0	1	1	0	1	0	6	1	1	3	0
C-D	5	0	1	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0
D1	53	22	10	4	0	2	0	1	2	0	0	1	1	0	8	1	1	0
D2	85	21	18	5	0	0	0	0	0	0	1	1	2	3	20	9	5	0
E	21	5	9	3	1	0	0	0	0	0	0	0	1	0	2	0	0	0
F	22	3	3	1	0	0	0	0	0	1	0	0	0	11	1	2	0	0
G	291	17	0	8	7	4	0	2	1	10	15	12	27	49	84	42	13	0
LACK	8	0	0	1	0	0	0	0	1	1	0	1	0	2	2	0	0	0

TABLE 4.2- 2E FREQUENCY DISTRIBUTIONS OF WIND DIRECTION AND SPEED

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
10M																			
-0.4	136																	0	136
0.5-0.9		5	0	1	1	2	0	2	0	2	8	12	14	33	39	23	8	0	150
1.0-1.9		19	5	12	6	5	6	5	1	8	4	8	9	18	44	17	9	0	176
2.0-2.9		16	16	6	3	0	4	2	3	4	3	4	5	22	14	7	6	0	115
3.0-3.9		17	14	3	0	0	0	0	6	1	3	2	1	5	2	0	0	0	54
4.0-4.9		7	6	3	0	0	0	0	0	0	1	0	0	3	1	0	0	0	21
5.0-5.9		4	4	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	11
6.0-6.9		1	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
7.0-7.9		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8.0-8.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
TOTL	136	69	50	29	10	7	10	9	11	15	19	27	29	81	100	47	23	0	672
20M																			
-0.4	32																	0	32
0.5-0.9		2	0	2	0	0	0	0	0	2	2	1	10	15	33	16	9	0	92
1.0-1.9		5	5	3	3	4	6	1	2	5	6	21	21	48	49	20	11	0	210
2.0-2.9		20	7	8	5	2	7	3	1	7	4	11	18	28	23	10	9	0	163
3.0-3.9		20	11	4	2	0	1	3	3	2	4	2	10	9	5	4	1	0	81
4.0-4.9		15	8	2	0	0	0	1	2	1	3	1	2	7	1	0	2	0	45
5.0-5.9		5	7	1	0	0	0	0	0	0	3	1	2	2	0	0	0	0	21
6.0-6.9		2	7	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	12
7.0-7.9		7	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
8.0-8.9		1	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
9.0-9.9		0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTL	32	77	48	25	10	6	14	8	9	17	22	38	63	110	111	50	32	0	672
40M																			
-0.4	9																	0	9
0.5-0.9		1	1	1	0	0	0	0	0	1	1	0	4	4	8	2	1	0	24
1.0-1.9		8	2	2	2	1	1	4	0	2	3	7	11	13	25	12	11	0	104
2.0-2.9		4	4	4	3	6	7	0	2	1	2	9	14	22	52	30	11	0	171
3.0-3.9		14	16	4	1	1	6	1	2	3	12	7	9	12	31	21	8	0	148
4.0-4.9		11	19	1	7	1	1	2	5	2	2	0	4	9	23	17	2	0	106
5.0-5.9		5	11	4	2	0	0	0	1	2	1	1	1	5	10	6	0	0	49
6.0-6.9		4	3	2	0	0	0	0	0	0	1	1	2	2	4	2	2	0	23
7.0-7.9		3	5	2	0	0	0	0	1	0	3	1	1	1	0	0	0	0	17
8.0-8.9		5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
9.0-9.9		4	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	7
10.0-		0	2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTL	9	59	67	25	15	9	15	7	11	11	25	27	46	68	153	90	35	0	672

TABLE 4.2- 3A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMID-ITY PERCENT	PRECIP-ITAT. MM	SOLAR RAD. MJ/SQ(M)/DAY	NET RAD.	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	6.4	58.8	0.0	18.9	2.5	1.1	1.8	2.9
2	6.5	84.1	10.0	1.9	0.5	3.0	4.0	5.1
3	8.0	68.7	0.0	18.4	2.5	1.4	2.2	3.1
4	4.1	71.6	0.0	7.8	2.6	0.7	1.1	1.9
5	1.8	64.5	0.0	****	3.6	0.6	1.2	2.5
6	4.9	51.5	0.0	19.8	3.4	1.8	2.7	4.2
7	3.5	44.0	0.0	19.0	3.1	1.0	1.4	2.1
8	3.4	43.2	0.0	18.8	3.9	1.7	2.5	4.6
9	3.5	51.2	0.0	20.8	3.0	1.2	1.9	2.8
10	6.5	87.0	27.0	3.3	0.9	1.7	2.4	3.4
11	9.1	61.9	0.0	19.8	3.1	2.7	3.8	6.3
12	6.9	66.0	0.0	16.3	2.0	0.9	1.3	2.1
13	7.4	92.3	28.0	2.4	1.0	2.8	3.7	5.3
14	5.0	54.5	0.0	19.5	3.0	1.9	2.8	4.8
15	4.2	55.8	0.0	20.8	3.2	1.1	1.8	2.7
16	6.0	66.9	0.5	16.6	1.7	1.6	2.3	3.3
17	7.0	91.6	20.0	4.4	1.7	1.4	2.4	3.6
18	5.4	44.2	0.5	18.5	4.0	3.0	5.4	7.6
19	3.8	57.9	0.0	22.8	3.4	1.3	1.8	2.6
20	5.8	75.3	0.0	17.6	2.4	1.3	1.7	2.6
21	6.8	93.6	7.0	4.2	1.5	0.8	1.3	2.3
22	7.7	76.5	0.0	22.5	1.7	1.6	2.3	3.2
23	11.2	79.3	8.5	15.6	0.9	1.1	1.7	2.7
24	8.8	88.7	12.5	7.3	1.3	4.5	5.5	7.0
25	7.1	69.2	0.0	22.5	2.2	2.2	2.6	3.4
26	7.2	62.5	0.0	16.4	1.4	1.5	2.0	2.9
27	6.3	81.2	9.5	5.4	1.1	1.7	2.2	3.0
28	7.8	85.4	0.0	14.6	1.8	2.5	3.2	4.1
29	7.6	65.8	0.0	14.8	1.8	2.3	3.0	3.9
30	9.2	63.4	0.5	5.5	1.2	3.1	4.0	5.0
31	8.7	65.7	0.0	22.1	3.2	3.5	4.3	5.6
MONTH	6.4	68.5	124.0	14.6	2.2	1.8	2.6	3.8
LACK	7	8	6	7	0	7	7	7

TABLE 4.2- 3B DISTRIBUTION OF WIND DIRECTION FREQUENCIES (%)

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	19.4	6.8	20.8	7.2	3.0	3.4	1.5	1.8	2.4	0.4	2.4	2.3	2.3	4.6	12.8	5.0	3.9
20M	7.3	9.2	21.4	6.0	3.8	2.6	1.8	2.6	1.8	0.5	2.7	3.3	3.7	7.2	14.5	6.5	5.2
40M	1.6	8.5	22.4	7.3	3.1	3.9	1.5	3.8	1.2	0.7	3.0	2.7	3.1	6.5	12.8	10.9	6.9

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TABLE 4.2- 3C HOURLY AVERAGES AND STANDARD DEVIATIONS

TIME(HR)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WIND SPD H=																								
10M																								
MEAN	1.4	1.1	1.1	1.3	1.3	1.3	1.4	1.6	2.2	2.5	2.6	2.8	3.0	2.7	3.0	2.6	2.2	1.9	1.6	1.5	1.3	1.3	1.3	1.3
SIGM	1.5	1.1	1.2	1.3	1.5	1.5	1.5	1.5	1.4	1.3	1.4	1.3	1.5	1.4	1.5	1.6	1.3	1.3	1.3	1.3	1.1	1.1	1.2	1.2
20M																								
MEAN	2.1	1.8	1.8	2.1	2.1	2.1	2.1	2.2	2.9	3.2	3.3	3.5	3.9	3.7	3.8	3.4	3.0	2.8	2.4	2.3	2.0	1.9	1.9	2.0
SIGM	2.0	1.5	1.5	1.7	1.9	1.9	1.7	1.8	1.8	1.6	1.6	1.7	1.9	1.8	1.9	1.9	1.7	1.5	1.7	1.6	1.6	1.3	1.4	1.4
40M																								
MEAN	3.3	3.0	3.0	3.4	3.4	3.5	3.2	3.1	3.9	4.2	4.3	4.6	5.1	4.9	5.2	4.6	4.2	3.9	3.5	3.5	3.3	3.3	3.1	3.1
SIGM	2.5	1.8	1.8	1.9	2.5	2.1	2.1	2.4	2.5	2.4	2.2	2.5	2.7	2.4	2.4	2.5	2.2	1.8	2.1	1.7	1.9	1.7	1.7	1.9
TEMPERATURE																								
MEAN	4.5	4.1	3.7	3.3	3.0	2.9	3.9	5.8	7.5	8.6	9.2	9.3	9.5	9.3	9.3	8.9	8.4	7.7	7.0	6.4	6.0	5.7	5.5	5.0
SIGM	3.4	3.4	3.6	3.6	3.7	3.7	3.4	2.5	2.2	2.3	2.4	2.3	2.3	1.8	2.1	2.0	2.1	2.0	2.3	2.4	2.5	2.6	2.9	3.2
HUMIDITY																								
MEAN	75.2	75.7	76.8	77.4	78.4	78.7	77.0	70.5	62.6	57.4	58.5	56.9	56.9	59.9	61.2	62.3	64.2	66.6	68.5	70.7	71.6	70.7	70.2	72.8
SIGM	16.2	15.7	14.8	13.5	12.9	12.5	12.7	16.0	20.1	24.4	23.3	25.0	24.6	24.4	23.7	22.6	21.5	20.6	18.7	17.3	17.0	17.1	16.7	16.1
LAPSE RATE																								
MEAN	1.7	2.3	2.2	2.7	2.9	3.0	1.3	-1.9	-2.5	-2.9	-3.3	-3.1	-3.1	-3.0	-2.7	-2.1	-1.4	-0.8	-0.2	0.8	1.2	1.1	0.7	1.7
SIGM	3.1	4.2	3.5	3.6	3.7	3.9	3.0	1.3	1.0	1.0	1.0	1.1	1.0	1.0	0.7	0.6	0.5	0.9	1.6	2.8	3.3	3.3	2.9	3.3
STABIL. RATIO																								
MEAN	0.2	0.7	****	0.5	0.2	0.6	0.2	-0.5	-0.6	-0.9	-0.7	-0.7	-0.5	-0.5	-0.5	-0.6	-0.3	-0.4	-0.1	-0.2	-0.2	-0.2	-0.2	-0.1
SIGM	1.0	3.4	****	1.2	0.8	1.6	1.0	0.6	0.6	1.0	0.8	0.8	0.5	0.4	0.5	0.6	0.3	0.4	0.9	0.4	0.4	0.4	0.3	0.5
RADIATION																								
MEAN	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.9	1.5	1.8	2.3	2.2	2.1	1.7	1.4	0.8	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2
SIGM	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.5	0.8	1.0	1.1	1.1	1.1	0.9	0.7	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TABLE 4.2- 3D FREQUENCY DISTRIBUTIONS OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	23	2	1	0	2	4	0	0	1	0	5	3	2	2	1	0	0	0
A-B	67	1	2	5	7	10	4	7	6	1	5	4	3	5	5	1	1	0
B	63	1	7	8	4	4	6	2	2	1	3	1	2	4	7	8	3	0
B-C	19	1	7	4	0	0	0	0	0	1	0	0	0	0	2	2	2	0
C	35	0	17	3	0	0	0	0	2	0	1	0	0	0	7	3	2	0
C-D	11	0	3	0	0	0	0	0	4	0	0	0	0	0	3	1	0	0
D1	54	4	32	3	2	1	1	0	0	0	2	1	1	0	3	2	2	0
D2	170	13	53	10	4	2	1	3	1	1	2	3	2	15	40	14	6	0
E	45	4	20	9	0	1	0	0	0	0	0	2	1	3	3	0	2	0
F	23	2	4	2	0	0	0	0	2	0	1	1	3	1	6	0	1	0
G	227	30	12	10	5	5	2	3	1	3	3	9	12	16	59	34	23	0
LACK	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7

TABLE 4.2- 3E FREQUENCY DISTRIBUTIONS OF WIND DIRECTION AND SPEED

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
10M																			
-0.4	143																	0	143
0.5-0.9		15	5	2	5	4	0	3	1	1	3	8	7	13	38	13	12	0	130
1.0-1.9		19	14	17	7	11	8	4	3	1	8	4	4	12	29	13	8	0	162
2.0-2.9		11	28	14	8	10	3	6	7	0	4	3	4	5	10	4	2	0	119
3.0-3.9		4	60	17	2	0	0	0	1	1	3	2	1	3	8	5	5	0	112
4.0-4.9		0	30	2	0	0	0	0	5	0	0	0	1	1	6	1	2	0	48
5.0-5.9		1	11	1	0	0	0	0	1	0	0	0	0	0	3	1	0	0	18
6.0-6.9		0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
7.0-7.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0-8.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
TOTL	143	50	153	53	22	25	11	13	18	3	18	17	17	34	94	37	29	7	744
20M																			
-0.4	54																	0	54
0.5-0.9		6	8	2	3	1	3	1	1	3	2	4	5	10	25	10	6	0	90
1.0-1.9		20	7	7	9	5	5	5	2	0	7	10	7	15	44	22	20	0	185
2.0-2.9		15	20	11	12	9	5	6	1	0	5	5	6	14	14	5	4	0	132
3.0-3.9		16	38	10	2	4	0	5	4	0	2	1	2	6	7	4	1	0	102
4.0-4.9		6	44	11	2	0	0	0	1	1	3	3	3	1	6	4	5	0	90
5.0-5.9		3	22	3	0	0	0	2	3	0	1	1	1	3	5	1	1	0	46
6.0-6.9		2	9	0	0	0	0	0	1	0	0	0	1	2	5	1	1	0	22
7.0-7.9		0	9	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	12
8.0-8.9		0	1	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	3
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
TOTL	54	68	158	44	28	19	13	19	13	4	20	24	27	53	107	48	38	7	744
40M																			
-0.4	12																	0	12
0.5-0.9		2	1	2	0	3	0	1	0	1	1	3	3	1	5	6	3	0	32
1.0-1.9		11	9	6	4	6	1	4	4	2	4	5	4	12	17	12	12	0	113
2.0-2.9		21	8	10	9	5	4	7	1	1	4	4	5	13	24	27	14	0	157
3.0-3.9		14	20	10	5	12	6	6	1	0	7	2	2	10	20	17	10	0	142
4.0-4.9		8	39	12	3	3	0	5	0	0	1	0	1	5	4	4	3	0	88
5.0-5.9		1	42	11	2	0	0	1	1	1	3	2	1	1	6	3	0	0	75
6.0-6.9		2	21	3	0	0	0	3	1	0	2	0	2	0	2	2	5	0	43
7.0-7.9		2	12	0	0	0	0	1	1	0	0	2	2	2	8	1	1	0	32
8.0-8.9		2	6	0	0	0	0	0	0	0	0	1	2	2	3	4	1	0	21
9.0-9.9		0	5	0	0	0	0	0	0	0	0	0	0	0	3	2	1	0	11
10.0-		0	2	0	0	0	0	0	0	0	0	1	1	2	2	2	1	0	11
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
TOTL	12	63	165	54	23	29	11	28	9	5	22	20	23	48	94	80	51	7	744

TABLE 4.2- 4A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMID- ITY PERCENT	PRECIP- ITAT. MM	SOLAR RAD. MJ/SQ(M)/DAY	NET RAD.	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	10.2	86.1	39.5	5.0	0.9	3.6	4.8	6.6
2	10.7	86.7	0.0	13.9	1.9	0.9	1.4	2.3
3	9.8	74.2	0.0	24.1	2.2	1.8	2.3	3.5
4	11.9	46.4	3.0	14.7	1.9	1.3	2.2	3.6
5	8.7	33.7	0.0	19.7	2.4	1.8	2.3	3.3
6	10.6	75.5	0.0	23.9	2.6	1.9	2.6	3.6
7	13.6	76.1	0.0	20.1	1.4	1.7	2.5	3.7
8	12.9	73.3	0.0	16.7	1.9	2.5	3.3	4.3
9	10.2	68.0	0.0	25.9	2.9	3.1	3.9	5.0
10	10.9	87.2	10.0	11.4	1.3	0.7	1.3	2.0
11	14.3	94.1	24.5	9.8	0.8	3.0	4.0	5.4
12	11.2	87.2	1.5	4.5	1.4	2.8	3.7	4.9
13	10.2	76.1	0.0	27.8	2.7	1.5	2.0	2.9
14	11.1	76.3	0.0	22.0	2.2	1.1	1.5	2.2
15	14.5	96.7	6.0	4.2	0.6	0.8	1.4	2.5
16	13.1	96.2	7.5	2.4	0.7	2.1	3.0	4.2
17	9.9	93.7	18.0	4.9	1.2	3.5	4.4	5.6
18	10.9	86.3	0.0	28.7	1.8	1.6	2.0	2.4
19	12.7	91.8	5.5	9.1	0.7	0.8	1.5	2.2
20	13.5	96.9	4.5	4.9	1.0	1.3	2.1	3.1
21	10.2	67.0	0.0	27.0	1.5	1.0	1.6	2.4
22	13.1	94.8	16.0	4.2	0.9	0.9	1.4	2.4
23	14.5	81.2	0.0	18.9	1.8	1.0	1.5	2.4
24	14.7	78.0	0.0	25.4	2.5	1.6	2.4	3.5
25	17.7	69.6	0.0	26.1	2.1	1.8	2.7	3.8
26	16.5	70.3	0.0	26.3	2.6	1.5	2.4	3.6
27	21.0	73.0	0.0	23.6	2.1	3.5	5.3	7.5
28	17.4	85.9	0.5	7.5	0.7	0.7	1.2	2.0
29	15.0	92.5	0.0	17.9	0.3	2.7	3.6	4.6
30	12.2	85.7	1.5	6.5	1.3	1.5	2.1	3.1
MONTH	12.8	79.6	138.0	15.9	1.6	1.8	2.5	3.6
LACK	0	28	0	0	0	0	0	0

TABLE 4.2- 4B DISTRIBUTION OF WIND DIRECTION FREQUENCIES (%)

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	17.8	3.6	17.6	10.0	5.1	1.5	4.0	2.5	7.1	2.1	3.3	3.9	3.6	8.2	7.8	0.8	1.0
20M	9.9	4.4	19.3	9.4	4.9	2.5	3.6	4.6	6.0	1.9	4.6	4.2	4.7	9.7	7.8	1.2	1.2
40M	3.3	4.2	19.0	11.0	4.3	2.8	3.9	6.8	5.8	2.8	6.4	3.7	4.2	8.5	8.1	3.5	1.8

TABLE 4.2- 4C HOURLY AVERAGES AND STANDARD DEVIATIONS

TIME(HR)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WIND SPD																								
H=																								
10M																								
MEAN	1.3	1.1	1.2	1.1	1.4	1.5	1.6	1.8	2.0	2.4	2.5	2.8	3.0	2.8	2.6	2.5	2.2	1.9	1.4	1.4	1.3	1.2	1.1	1.1
SIGM	1.1	1.1	1.2	1.0	1.2	1.3	1.7	1.6	1.4	1.4	1.3	1.5	1.5	1.5	1.3	1.5	1.4	1.5	1.2	1.3	1.3	1.2	0.9	1.1
20M																								
MEAN	2.0	1.8	1.9	1.9	2.4	2.4	2.3	2.6	2.7	3.1	3.2	3.5	3.7	3.6	3.3	3.2	3.0	2.7	2.2	2.2	2.0	1.8	1.8	1.8
SIGM	1.3	1.4	1.4	1.3	1.4	1.6	2.0	2.0	1.8	1.9	1.7	2.0	1.9	1.9	1.7	1.9	1.7	1.8	1.5	1.6	1.7	1.5	1.2	1.3
40M																								
MEAN	3.0	3.0	3.1	3.0	3.6	3.7	3.3	3.4	3.6	4.0	4.0	4.4	4.5	4.6	4.3	4.4	4.1	3.8	3.4	3.5	3.0	3.1	3.0	3.2
SIGM	1.6	1.7	1.7	1.6	1.6	1.9	2.3	2.5	2.4	2.5	2.3	2.7	2.5	2.5	2.1	2.2	2.1	2.2	2.0	2.1	2.2	1.7	1.5	1.5
TEMPERA-																								
TURE																								
MEAN	11.1	10.6	10.2	9.9	9.9	10.2	11.7	13.5	14.7	15.2	15.1	15.1	15.3	15.2	14.9	14.7	14.4	13.5	12.9	12.4	12.0	11.8	11.3	11.1
SIGM	3.2	3.5	3.5	3.6	3.7	3.7	3.2	3.1	3.6	4.1	3.9	3.7	3.8	3.8	3.7	3.8	3.4	3.3	3.2	3.2	3.0	3.0	3.0	3.1
HUMIDITY																								
MEAN	85.8	88.0	87.6	87.9	88.4	87.2	83.6	78.0	74.0	68.6	67.2	67.2	70.2	71.2	70.1	71.4	74.8	78.0	82.5	84.6	86.2	86.5	86.8	86.9
SIGM	16.1	14.0	14.4	15.1	15.6	16.7	17.3	18.1	19.6	23.1	22.6	21.1	19.9	21.1	19.9	20.1	19.7	18.2	15.8	14.3	13.2	15.5	15.1	14.2
LAPSE																								
RATE																								
MEAN	1.9	2.3	3.0	2.8	2.8	2.0	-0.5	-1.8	-2.4	-2.5	-2.6	-2.8	-2.8	-2.6	-2.2	-1.7	-1.1	-0.2	1.0	1.7	2.2	2.1	2.5	2.3
SIGM	3.3	3.8	3.8	3.8	3.8	3.1	1.5	1.0	1.0	1.0	1.1	1.1	1.1	1.0	1.0	1.4	1.3	2.1	2.6	3.1	3.4	3.4	3.8	3.1
STABIL.																								
RATIO																								
MEAN	0.5	1.7	0.6	1.4	1.6	0.4	-0.5	-0.8	-0.8	-0.7	-0.7	-0.7	-0.5	-0.6	-0.5	-0.4	-0.3	-0.1	0.2	0.5	-0.1	0.2	1.1	1.3
SIGM	1.2	3.6	1.5	3.0	3.2	0.7	0.6	0.8	0.7	0.7	0.6	0.7	0.5	0.7	0.5	0.5	0.6	0.6	1.0	1.8	0.6	0.8	3.4	2.9
RADIA-																								
TION																								
MEAN	0.1	0.1	0.1	0.1	0.1	0.0	0.7	1.2	1.6	1.9	2.0	2.1	2.1	1.8	1.4	0.9	0.4	0.1	0.2	0.2	0.1	0.1	0.1	0.1
SIGM	0.1	0.1	0.1	0.1	0.1	0.0	0.4	0.7	1.0	1.2	1.3	1.3	1.3	1.1	0.9	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TABLE 4.2- 4D FREQUENCY DISTRIBUTIONS OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	29	0	0	1	5	3	8	3	2	0	1	1	2	2	0	1	0	0
A-B	68	1	3	8	14	4	7	8	3	1	1	4	4	4	3	2	1	0
B	70	1	4	8	6	1	6	3	16	2	0	5	5	7	5	0	1	0
B-C	15	0	6	3	0	0	0	0	3	0	3	0	0	0	0	0	0	0
C	29	2	8	5	0	0	0	0	7	0	3	4	0	0	0	0	0	0
C-D	10	1	2	0	0	0	0	0	4	0	3	0	0	0	0	0	0	0
D1	109	4	41	15	7	3	7	3	8	3	4	5	2	3	2	1	1	0
D2	147	5	34	18	1	2	3	3	6	1	7	10	13	22	16	3	3	0
E	19	4	9	2	1	1	0	0	1	0	0	1	0	0	0	0	0	0
F	18	1	10	4	0	0	0	0	0	0	0	2	0	0	1	0	0	0
G	206	8	17	12	5	6	5	4	10	11	8	4	12	32	50	12	10	0
LACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 4.2- 4E FREQUENCY DISTRIBUTIONS OF WIND DIRECTION AND SPEED

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
10M																			
-0.4	128																	0	128
0.5-0.9		5	3	6	7	2	5	2	0	5	6	5	14	25	24	5	6	0	120
1.0-1.9		9	18	15	13	5	17	9	16	9	5	9	12	32	25	1	1	0	196
2.0-2.9		7	23	25	14	3	7	7	11	1	1	4	0	2	7	0	0	0	112
3.0-3.9		4	37	21	2	0	0	0	18	0	6	5	0	0	0	0	0	0	93
4.0-4.9		1	34	3	1	1	0	0	5	0	2	2	0	0	0	0	0	0	49
5.0-5.9		0	8	2	0	0	0	0	1	0	4	2	0	0	0	0	0	0	17
6.0-6.9		0	4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	5
7.0-7.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0-8.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTL	128	26	127	72	37	11	29	18	51	15	24	28	26	59	56	6	7	0	720
20M																			
-0.4	71																	0	71
0.5-0.9		1	2	7	3	1	2	3	2	2	3	2	4	5	14	5	2	0	58
1.0-1.9		5	12	14	8	9	14	8	6	5	11	7	16	25	31	4	7	0	182
2.0-2.9		7	24	16	11	6	10	13	12	6	3	9	11	30	9	0	0	0	167
3.0-3.9		7	23	13	10	1	0	8	7	1	2	2	3	10	2	0	0	0	89
4.0-4.9		8	33	14	1	0	0	1	12	0	3	3	0	0	0	0	0	0	75
5.0-5.9		4	27	3	2	0	0	0	4	0	5	3	0	0	0	0	0	0	48
6.0-6.9		0	14	1	0	1	0	0	0	0	1	1	0	0	0	0	0	0	18
7.0-7.9		0	2	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	6
8.0-8.9		0	2	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	5
9.0-9.9		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTL	71	32	139	68	35	18	26	33	43	14	33	30	34	70	56	9	9	0	720
40M																			
-0.4	24																	0	24
0.5-0.9		0	1	0	0	1	1	3	2	2	5	4	4	2	3	3	1	0	32
1.0-1.9		4	9	14	7	6	10	8	4	5	4	1	4	8	8	5	4	0	101
2.0-2.9		5	14	13	6	9	13	11	7	6	3	6	12	17	18	6	6	0	152
3.0-3.9		3	18	16	8	2	3	13	9	5	8	10	5	23	17	5	2	0	147
4.0-4.9		8	16	16	6	0	0	7	7	2	4	1	5	11	12	6	0	0	101
5.0-5.9		5	29	9	1	0	1	5	8	0	1	3	0	0	0	0	0	0	62
6.0-6.9		4	23	6	2	0	0	1	4	0	6	1	0	0	0	0	0	0	47
7.0-7.9		1	14	3	0	0	0	1	1	0	4	0	0	0	0	0	0	0	24
8.0-8.9		0	8	2	0	1	0	0	0	0	2	1	0	0	0	0	0	0	14
9.0-9.9		0	5	0	1	0	0	0	0	0	3	0	0	0	0	0	0	0	9
10.0-		0	0	0	0	1	0	0	0	0	6	0	0	0	0	0	0	0	7
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTL	24	30	137	79	31	20	28	49	42	20	46	27	30	61	58	25	13	0	720

TABLE 4.2- 5A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMID- ITY PERCENT	PRECIP- ITAT. MM	SOLAR RAD. MJ/SQ(M)	NET RAD. /DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	12.6	81.3	1.5	12.2	0.9	0.8	1.1	2.0
2	14.4	86.7	2.0	18.7	0.9	1.3	1.7	2.5
3	15.5	75.6	0.0	23.0	2.1	1.8	2.3	3.6
4	16.8	77.4	0.0	26.0	2.2	1.7	2.5	3.7
5	17.0	75.1	0.0	25.8	1.9	2.9	4.0	5.3
6	13.7	79.4	1.5	19.2	1.4	3.7	4.8	6.1
7	18.0	91.6	5.0	4.8	1.2	2.2	3.2	4.6
8	14.7	83.3	0.0	23.1	1.7	1.6	2.3	3.5
9	14.8	74.9	0.5	29.5	1.8	1.6	2.1	3.0
10	14.0	70.3	0.0	28.5	2.4	1.4	1.8	2.7
11	17.4	72.4	0.0	27.1	1.8	2.3	3.1	4.2
12	18.2	81.0	0.5	21.7	1.3	2.1	2.8	3.7
13	16.9	87.8	21.0	21.0	0.7	3.5	4.5	5.8
14	19.3	67.7	0.0	22.6	2.1	1.1	1.6	3.2
15	15.9	61.0	1.0	28.0	1.8	1.5	1.9	3.6
16	13.9	89.2	40.5	4.4	0.9	4.8	5.7	6.9
17	12.6	84.0	15.0	18.1	2.4	3.3	4.0	4.9
18	13.8	66.4	0.0	29.2	2.6	1.6	2.2	3.5
19	18.8	63.1	0.0	28.7	2.3	2.1	3.2	4.9
20	18.3	78.6	0.0	28.2	1.8	0.9	1.2	2.0
21	17.5	87.2	0.0	26.7	1.4	1.0	1.3	1.7
22	19.8	79.3	0.0	27.1	1.6	1.4	2.0	2.8
23	17.1	68.3	0.0	26.8	2.0	1.4	1.7	2.4
24	14.7	73.5	0.0	24.9	2.2	3.6	4.5	5.7
25	13.0	76.3	2.0	17.7	1.1	4.8	5.8	6.9
26	12.0	70.9	0.0	28.8	1.7	4.2	5.3	6.4
27	13.6	75.0	0.0	20.3	1.3	0.9	0.9	1.7
28	18.8	70.0	0.0	27.5	1.8	1.7	2.1	3.3
29	18.9	80.7	1.0	16.3	1.1	1.6	1.9	3.1
30	20.9	77.4	0.0	32.4	1.1	1.6	1.9	2.9
31	20.5	84.2	0.0	22.3	1.6	1.1	1.2	2.1
MONTH	16.2	77.0	91.5	22.9	1.6	2.1	2.7	3.8
LACK	1	13	0	1	0	1	1	1

TABLE 4.2- 5B DISTRIBUTION OF WIND DIRECTION FREQUENCIES (%)

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	19.9	3.2	17.4	11.0	5.7	2.2	1.5	2.7	9.3	4.6	3.6	3.0	3.8	6.2	4.0	0.9	1.1
20M	13.9	5.4	18.6	10.4	4.2	2.2	1.6	3.1	9.8	4.0	4.0	4.2	4.7	7.1	4.2	1.3	1.3
40M	2.8	2.0	17.1	13.7	5.1	3.2	2.3	7.9	7.1	4.6	6.1	3.5	3.1	7.4	7.5	5.1	1.3

TABLE 4.2- 5C HOURLY AVERAGES AND STANDARD DEVIATIONS

TIME(HR)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WIND SPD H=																								
10M																								
MEAN	1.3	1.2	1.4	1.5	1.4	1.3	1.5	1.8	2.5	2.9	2.9	3.2	3.2	3.3	3.5	3.3	3.1	2.5	2.1	1.6	1.3	1.1	1.4	1.4
SIGM	1.9	1.7	2.0	1.7	1.5	1.4	1.9	1.5	1.4	1.4	1.4	1.3	1.3	1.7	1.4	1.4	1.6	1.8	1.8	1.8	1.6	1.8	1.8	1.7
20M																								
MEAN	1.8	1.6	2.0	2.0	1.9	1.7	1.9	2.4	3.0	3.5	3.8	3.9	3.8	4.0	4.2	4.0	3.9	3.3	2.9	2.3	1.9	1.7	1.9	2.0
SIGM	2.3	2.2	2.3	2.1	1.8	1.9	2.4	1.8	1.7	1.8	1.8	1.8	1.5	2.0	1.7	1.7	1.9	2.1	2.2	2.1	2.0	2.2	2.2	2.0
40M																								
MEAN	2.9	2.8	3.2	3.3	3.0	2.9	2.7	3.0	3.7	4.3	4.8	5.0	5.0	5.1	5.4	5.1	5.0	4.4	4.1	3.4	3.1	3.0	3.3	3.2
SIGM	2.5	2.4	2.5	2.3	1.9	1.8	2.7	2.2	2.0	2.2	2.4	2.1	1.9	2.5	2.2	2.1	2.3	2.5	2.5	2.5	2.2	2.5	2.4	2.1
TEMPERA-TURE																								
MEAN	13.9	13.7	13.6	13.3	13.2	14.3	16.1	17.6	18.1	18.5	18.7	18.7	18.6	18.6	18.5	17.9	17.2	16.8	16.4	15.9	15.5	15.1	15.0	14.7
SIGM	2.5	2.6	2.7	2.8	2.8	2.7	2.9	3.0	3.4	3.7	3.8	3.4	3.3	3.5	3.2	3.2	3.0	2.8	2.9	2.7	2.6	2.4	2.4	2.4
HUMIDITY																								
MEAN	85.2	86.0	85.8	86.9	87.1	84.5	77.1	72.3	69.1	67.7	67.1	67.3	68.3	67.7	68.6	69.8	72.9	75.8	77.8	79.5	81.5	81.7	82.9	84.0
SIGM	9.9	9.5	9.7	7.2	7.7	8.9	11.4	13.0	13.0	13.7	12.6	13.6	13.2	13.5	13.0	13.3	12.2	10.1	12.3	12.4	12.1	12.2	12.1	10.7
LAPSE RATE																								
MEAN	1.5	1.8	1.3	1.6	1.6	-0.5	-1.8	-2.4	-2.7	-2.8	-3.0	-3.2	-3.0	-2.7	-2.5	-2.1	-1.6	-1.1	-0.6	0.0	0.7	0.8	0.8	1.1
SIGM	2.7	2.7	2.3	2.8	2.9	1.1	0.8	0.7	0.9	1.1	1.0	1.1	0.7	0.7	0.7	0.5	0.6	0.8	0.9	1.3	2.1	2.2	2.2	2.5
STABIL. RATIO																								
MEAN	****	****	0.7	1.0	0.8	-0.0	-0.8	-1.0	-0.9	-0.7	-0.5	-0.5	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.3	-0.1	0.0	****	0.6	0.2
SIGM	****	****	1.8	1.3	1.4	0.2	1.2	1.0	1.0	0.8	0.4	0.3	0.4	0.4	0.5	0.4	0.5	0.6	0.5	0.2	0.9	****	1.3	0.8
RADIA-TION																								
MEAN	0.1	0.1	0.1	0.1	0.1	0.0	1.1	1.7	2.1	2.7	3.0	3.0	2.9	2.6	1.9	1.3	0.7	0.1	0.2	0.2	0.2	0.1	0.1	0.1
SIGM	0.1	0.1	0.1	0.1	0.1	0.0	0.5	0.7	0.9	1.0	1.1	1.0	0.9	0.9	0.8	0.5	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TABLE 4.2- 5D FREQUENCY DISTRIBUTIONS OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	39	2	0	4	4	7	1	4	1	2	0	4	4	4	0	0	2	0
A-B	99	1	5	12	12	7	8	10	12	1	4	3	6	9	6	0	3	0
B	65	0	3	16	11	1	1	4	16	5	4	2	0	1	1	0	0	0
B-C	11	0	2	2	0	0	0	0	3	2	2	0	0	0	0	0	0	0
C	62	1	21	12	1	0	1	0	21	0	4	1	0	0	0	0	0	0
C-D	12	0	9	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
D1	52	7	21	6	1	0	0	1	5	4	2	2	0	1	2	0	0	0
D2	169	11	55	16	3	1	0	4	5	6	4	8	11	17	13	11	4	0
E	12	1	4	4	0	0	0	0	1	2	0	0	0	0	0	0	0	0
F	13	1	4	1	0	0	0	0	0	3	2	1	0	1	0	0	0	0
G	209	5	7	15	18	6	1	1	4	15	13	16	16	35	30	17	10	0
LACK	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

TABLE 4.2- 5E FREQUENCY DISTRIBUTIONS OF WIND DIRECTION AND SPEED

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
10M																			
-0.4	148																	0	148
0.5-0.9		5	4	6	9	1	1	2	1	4	3	5	13	23	20	5	4	0	106
1.0-1.9		0	6	22	20	11	3	9	6	13	6	11	14	21	10	2	4	0	158
2.0-2.9		2	14	27	13	4	6	8	14	7	7	3	1	1	0	0	0	0	107
3.0-3.9		6	18	18	0	0	1	1	23	9	5	1	0	0	0	0	0	0	82
4.0-4.9		3	41	7	0	0	0	0	21	1	1	1	0	1	0	0	0	0	76
5.0-5.9		3	32	1	0	0	0	0	4	0	4	1	0	0	0	0	0	0	45
6.0-6.9		2	9	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	13
7.0-7.9		3	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
8.0-8.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
TOTL	148	24	129	82	42	16	11	20	69	34	27	22	28	46	30	7	8	1	744
20M																			
-0.4	103																	0	103
0.5-0.9		4	3	2	5	0	0	2	2	4	3	4	9	11	10	7	5	0	71
1.0-1.9		3	11	20	14	5	4	6	4	3	7	15	15	31	21	3	2	0	164
2.0-2.9		3	9	22	8	11	5	9	8	14	5	4	9	9	0	0	2	0	118
3.0-3.9		3	15	24	4	0	3	5	19	7	3	4	2	1	0	0	1	0	91
4.0-4.9		7	21	6	0	0	0	1	19	2	4	3	0	0	0	0	0	0	63
5.0-5.9		7	30	3	0	0	0	0	16	0	1	1	0	0	0	0	0	0	58
6.0-6.9		4	25	0	0	0	0	0	5	0	2	0	0	1	0	0	0	0	37
7.0-7.9		3	18	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	24
8.0-8.9		5	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	9
9.0-9.9		1	3	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	5
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
TOTL	103	40	138	77	31	16	12	23	73	30	30	31	35	53	31	10	10	1	744
40M																			
-0.4	21																	0	21
0.5-0.9		0	1	1	1	4	0	2	1	2	2	3	2	7	5	2	1	0	34
1.0-1.9		5	8	11	9	7	1	5	1	5	13	7	7	15	19	10	3	0	126
2.0-2.9		2	4	13	14	8	8	9	2	5	7	11	9	21	16	12	3	0	144
3.0-3.9		1	9	22	10	5	6	11	5	10	8	3	5	11	13	7	1	0	127
4.0-4.9		2	7	19	3	0	2	15	9	5	2	2	0	0	3	6	2	0	77
5.0-5.9		2	18	13	0	0	0	9	12	3	6	0	0	0	0	1	0	0	64
6.0-6.9		2	22	9	1	0	0	7	14	2	0	0	0	0	0	0	0	0	57
7.0-7.9		0	21	10	0	0	0	1	8	0	2	0	0	0	0	0	0	0	42
8.0-8.9		1	17	3	0	0	0	0	1	0	1	0	0	1	0	0	0	0	24
9.0-9.9		0	11	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	13
10.0-		0	9	1	0	0	0	0	0	1	3	0	0	0	0	0	0	0	14
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
TOTL	21	15	127	102	38	24	17	59	53	34	45	26	23	55	56	38	10	1	744

TABLE 4.2- 6A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMID-ITY PERCENT	PRECIP-ITAT. MM	SOLAR RAD. MJ/SQ(M)	NET RAD. /DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	19.8	77.1	0.0	15.9	1.5	0.9	1.0	2.0
2	17.1	67.5	0.0	33.6	1.7	2.2	2.7	3.6
3	15.6	73.8	0.0	12.2	0.6	3.5	4.4	5.1
4	15.4	76.3	0.0	35.7	2.0	3.8	4.9	6.1
5	14.7	74.5	0.0	36.5	2.5	2.0	2.3	2.9
6	16.7	78.5	7.0	25.9	1.2	1.3	1.5	2.2
7	17.4	82.7	1.0	30.3	1.4	1.8	2.1	2.8
8	18.9	78.4	0.0	20.5	1.4	1.0	1.4	2.3
9	20.9	77.6	0.0	23.3	1.2	1.6	2.1	3.2
10	18.7	75.3	4.0	27.7	1.5	2.1	2.6	3.4
11	16.0	78.0	0.0	23.6	1.3	4.2	5.3	6.4
12	14.9	81.5	4.5	13.7	0.7	1.7	2.2	2.9
13	17.3	92.4	21.0	6.7	1.1	1.8	2.4	3.9
14	19.3	73.3	0.0	35.6	1.7	1.4	1.8	2.8
15	19.8	74.7	0.0	30.4	1.9	2.2	2.5	3.8
16	15.5	88.4	0.0	6.2	0.8	3.1	4.0	4.9
17	18.0	85.3	0.5	6.4	0.9	3.2	4.1	5.1
18	15.3	89.7	31.5	4.6	0.7	3.5	4.6	5.5
19	16.5	86.4	0.0	26.3	1.2	1.4	1.8	2.2
20	17.0	91.2	21.0	5.1	0.5	1.0	1.4	2.1
21	18.2	88.8	47.0	15.2	1.4	1.8	2.4	3.5
22	16.3	84.9	0.0	23.8	1.3	2.5	3.3	4.3
23	15.9	86.1	0.0	5.8	0.5	0.8	1.2	1.7
24	17.9	92.3	36.0	5.3	0.6	1.4	2.0	3.0
25	19.7	77.5	0.0	28.2	1.1	1.5	1.4	2.5
26	15.6	84.9	0.0	8.1	0.6	3.7	4.8	6.1
27	15.5	85.7	0.0	10.7	0.5	3.4	4.3	5.1
28	16.9	88.0	0.0	24.0	1.5	2.7	3.3	3.9
29	18.2	85.4	0.0	26.8	1.6	1.1	1.2	1.9
30	20.3	78.8	0.0	22.8	1.1	1.7	2.1	3.3
MONTH	17.3	81.8	173.5	19.8	1.2	2.1	2.7	3.6
LACK	7	9	2	3	3	6	6	6

TABLE 4.2- 6B DISTRIBUTION OF WIND DIRECTION FREQUENCIES (%)

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	13.0	4.1	29.0	16.8	7.1	3.9	3.4	3.2	5.0	2.8	1.8	1.7	2.0	2.1	2.1	1.0	1.0
20M	12.0	9.1	32.6	12.6	4.8	3.8	3.4	2.8	5.0	3.1	1.5	2.8	3.5	1.7	0.3	0.1	0.8
40M	2.8	6.2	29.0	17.4	6.7	3.5	4.6	4.9	5.0	2.0	2.9	2.4	2.9	2.0	4.1	2.1	1.5

TABLE 4.2- 6C HOURLY AVERAGES AND STANDARD DEVIATIONS

TIME(HR)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WIND SPD																								
H=																								
10M																								
MEAN	1.6	1.8	1.9	1.9	1.6	1.6	2.0	2.1	2.4	2.4	2.6	2.7	2.8	2.7	2.7	2.4	2.5	2.5	2.0	2.1	1.9	1.9	1.8	1.6
SIGM	1.4	1.4	1.6	1.7	1.5	1.3	1.3	1.3	1.1	1.2	1.1	1.4	1.2	1.3	1.3	1.2	1.3	1.4	1.4	1.4	1.6	1.5	1.3	1.4
20M																								
MEAN	2.1	2.3	2.5	2.4	2.1	2.0	2.4	2.6	3.0	2.9	3.2	3.1	3.2	3.3	3.3	3.0	3.1	3.2	2.8	2.8	2.6	2.5	2.2	2.2
SIGM	1.8	1.9	2.1	2.1	1.9	1.6	1.7	1.6	1.4	1.5	1.4	1.9	1.5	1.7	1.6	1.5	1.6	1.6	1.7	1.6	1.9	1.8	1.7	1.8
40M																								
MEAN	3.2	3.4	3.4	3.4	3.0	2.8	3.1	3.3	3.7	3.7	4.0	3.9	4.0	4.1	4.1	3.9	4.1	4.2	3.8	3.8	3.6	3.6	3.2	3.3
SIGM	1.7	1.7	2.2	2.1	1.9	1.8	2.1	1.8	1.8	2.0	1.7	1.9	1.8	2.1	1.9	1.9	1.9	1.8	1.8	1.8	2.0	1.9	1.7	2.1
TEMPERA-																								
TURE																								
MEAN	16.0	15.9	15.5	15.4	15.4	16.0	17.0	17.7	18.2	18.6	18.6	19.0	18.9	18.9	18.8	18.6	18.2	18.0	17.5	17.0	16.9	16.6	16.5	16.4
SIGM	1.4	1.5	1.6	1.8	1.8	1.5	1.7	2.3	2.6	2.9	2.8	3.0	2.8	2.9	2.8	2.5	2.6	2.6	2.2	1.9	1.8	1.6	1.5	1.6
HUMIDITY																								
MEAN	86.2	86.1	88.1	88.3	88.5	86.6	82.9	79.9	77.0	75.9	74.7	73.1	75.6	75.9	76.5	79.1	79.6	80.8	83.3	84.1	84.6	85.0	85.6	85.6
SIGM	7.7	9.3	5.3	5.2	6.0	6.5	9.1	11.6	11.3	12.8	13.0	12.5	10.9	10.6	9.6	9.0	7.8	8.5	6.1	5.9	6.7	6.5	8.5	9.7
LAPSE																								
RATE																								
MEAN	0.6	-0.0	0.0	-0.1	-0.4	-1.3	-2.0	-2.3	-2.7	-2.9	-2.7	-2.8	-2.7	-2.7	-2.4	-2.0	-1.8	-1.3	-0.9	-0.6	-0.1	0.0	0.3	0.3
SIGM	3.1	1.7	2.2	1.6	1.7	1.0	0.6	0.9	0.8	0.9	0.9	0.7	0.8	0.7	0.9	1.4	0.7	0.9	1.0	1.4	1.8	2.4	2.4	2.1
STABIL.																								
RATIO																								
MEAN	0.0	-0.1	-0.2	-0.2	-0.1	-0.1	-0.6	-0.8	-0.6	-0.6	-0.6	-0.5	-0.4	-0.6	-0.5	-0.6	-0.6	-0.5	-0.3	-0.1	-0.2	-0.3	-0.0	-0.1
SIGM	0.6	0.5	0.2	0.3	0.6	0.8	0.6	0.8	0.5	0.4	0.5	0.4	0.3	0.6	0.4	0.5	0.6	0.7	0.4	0.5	0.2	0.4	0.6	0.4
RADIA-																								
TION																								
MEAN	0.1	0.1	0.1	0.1	0.1	0.0	1.0	1.4	2.0	2.1	2.3	2.4	2.4	2.2	1.6	1.3	0.7	0.3	0.1	0.1	0.1	0.1	0.1	0.1
SIGM	0.1	0.1	0.1	0.1	0.0	0.0	0.6	0.9	1.2	1.3	1.5	1.4	1.2	1.2	1.0	0.8	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1

TABLE 4.2- 6D FREQUENCY DISTRIBUTIONS OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	29	0	0	4	8	4	1	5	1	0	1	0	1	2	1	0	1	0
A-B	85	0	5	12	12	7	14	10	7	2	4	3	4	2	1	2	0	0
B	73	1	11	10	10	8	3	7	10	3	2	4	3	1	0	0	0	0
B-C	13	0	6	5	0	0	0	0	2	0	0	0	0	0	0	0	0	0
C	43	1	15	21	3	0	0	0	2	1	0	0	0	0	0	0	0	0
C-D	14	0	8	5	0	0	0	0	1	0	0	0	0	0	0	0	0	0
D1	100	5	40	19	8	6	3	1	6	5	2	2	2	1	0	0	0	0
D2	195	10	97	28	10	1	3	2	5	2	7	7	2	8	4	6	3	0
E	23	3	10	4	1	1	0	0	1	3	0	0	0	0	0	0	0	0
F	17	2	7	7	0	0	0	0	0	0	0	0	0	0	1	0	0	0
G	122	10	12	11	5	4	4	2	4	9	3	3	11	8	18	10	8	0
LACK	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6

TABLE 4.2- 6E FREQUENCY DISTRIBUTIONS OF WIND DIRECTION AND SPEED

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
10M																			
-0.4	93																	0	93
0.5-0.9		3	7	6	8	5	1	3	2	3	7	8	3	7	5	5	4	0	77
1.0-1.9		11	18	32	27	12	12	11	8	7	5	2	9	8	9	2	3	0	176
2.0-2.9		8	50	31	14	8	10	8	9	5	1	2	2	0	1	0	0	0	149
3.0-3.9		6	80	29	2	3	1	1	14	3	0	0	0	0	0	0	0	0	139
4.0-4.9		1	38	16	0	0	0	0	3	2	0	0	0	0	0	0	0	0	60
5.0-5.9		0	13	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
6.0-6.9		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7.0-7.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0-8.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
TOTL	93	29	207	120	51	28	24	23	36	20	13	12	14	15	15	7	7	6	720
20M																			
-0.4	86																	0	86
0.5-0.9		5	2	3	6	1	2	1	3	2	2	5	5	3	1	1	3	0	45
1.0-1.9		12	16	15	14	13	10	10	5	5	8	11	10	4	1	0	2	0	136
2.0-2.9		8	35	32	11	10	11	7	9	9	1	3	6	5	0	0	1	0	148
3.0-3.9		15	55	15	3	3	1	2	12	2	0	1	4	0	0	0	0	0	113
4.0-4.9		16	67	13	0	0	0	0	5	3	0	0	0	0	0	0	0	0	104
5.0-5.9		6	33	11	0	0	0	0	2	1	0	0	0	0	0	0	0	0	53
6.0-6.9		3	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25
7.0-7.9		0	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
8.0-8.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
TOTL	86	65	233	90	34	27	24	20	36	22	11	20	25	12	2	1	6	6	720
40M																			
-0.4	20																	0	20
0.5-0.9		1	2	6	3	1	1	0	0	0	2	2	1	4	4	2	0	0	29
1.0-1.9		5	8	10	6	7	6	4	7	3	7	7	5	2	10	6	3	0	96
2.0-2.9		9	22	22	22	10	16	8	4	4	8	5	5	7	13	5	6	0	166
3.0-3.9		6	22	25	9	4	9	8	9	4	4	3	7	1	1	1	1	0	114
4.0-4.9		11	54	14	6	3	1	6	3	3	0	0	3	0	1	1	1	0	107
5.0-5.9		8	53	16	2	0	0	6	9	0	0	0	0	0	0	0	0	0	94
6.0-6.9		3	24	17	0	0	0	1	1	0	0	0	0	0	0	0	0	0	46
7.0-7.9		1	13	13	0	0	0	1	3	0	0	0	0	0	0	0	0	0	31
8.0-8.9		0	9	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	10
9.0-9.9		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6
TOTL	20	44	207	124	48	25	33	35	36	14	21	17	21	14	29	15	11	6	720

TABLE 4.2- 7A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMID- ITY PERCENT	PRECIP- ITAT. MM	SOLAR RAD. MJ/SQ(M)/DAY	NET RAD.	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	20.2	83.8	3.0	10.1	1.1	1.1	1.5	2.7
2	17.4	89.3	0.0	11.3	0.6	3.2	4.1	5.0
3	16.6	93.8	23.5	7.3	0.4	3.6	4.6	5.5
4	19.3	90.8	0.0	26.8	0.5	2.7	3.4	4.2
5	18.6	89.5	41.5	3.0	0.6	2.7	3.5	4.7
6	19.5	83.8	2.5	20.2	0.7	2.0	2.5	3.5
7	15.9	81.0	0.0	11.8	0.6	3.1	4.0	5.2
8	15.3	90.1	3.0	5.8	0.4	3.5	4.5	5.5
9	18.4	87.5	7.5	10.3	0.5	1.8	2.2	2.9
10	17.6	84.8	0.0	17.1	0.6	3.0	3.7	4.5
11	16.9	81.6	0.0	10.3	1.4	3.7	4.7	5.5
12	16.4	75.6	0.0	19.5	1.5	4.5	5.8	6.9
13	16.7	80.8	1.0	21.2	1.5	1.4	1.6	2.5
14	19.6	84.8	0.0	25.8	1.6	1.4	1.7	2.6
15	22.7	90.2	1.5	6.6	0.8	1.0	1.5	2.5
16	25.8	84.8	2.5	8.5	0.7	1.9	3.0	4.3
17	20.5	88.0	0.5	4.9	0.5	1.5	2.1	2.9
18	19.7	91.0	9.5	15.1	1.4	1.3	1.6	2.1
19	22.7	81.8	0.0	26.8	1.7	1.5	1.6	2.8
20	21.1	89.8	6.5	7.1	0.5	0.9	1.2	1.9
21	22.0	92.2	6.0	7.3	0.5	0.6	0.7	1.7
22	18.3	88.5	1.5	9.5	****	1.0	1.3	2.3
23	22.0	85.0	0.0	16.9	1.1	1.1	1.4	2.0
24	24.6	79.6	0.0	11.6	1.1	0.8	0.8	1.9
25	23.3	84.5	20.5	17.3	1.0	1.3	1.6	2.4
26	21.5	90.5	4.0	15.3	1.0	1.2	1.6	2.2
27	24.9	85.5	17.5	18.1	0.6	1.4	2.1	3.0
28	26.0	78.4	9.5	23.1	1.8	1.4	2.0	2.8
29	22.5	84.5	6.5	23.7	1.3	1.9	2.4	3.0
30	25.1	85.5	0.5	18.7	0.7	1.2	1.7	2.3
31	26.7	86.8	0.0	12.9	1.1	0.9	1.4	2.1
MONTH	20.5	86.0	168.5	14.3	0.9	1.9	2.5	3.3
LACK	24	26	16	5	19	11	11	11

TABLE 4.2- 7B DISTRIBUTION OF WIND DIRECTION FREQUENCIES (%)

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	17.2	4.4	20.9	16.3	6.9	3.0	2.2	2.8	7.3	1.9	2.8	4.7	1.9	3.5	3.1	0.4	0.6
20M	15.6	6.2	26.2	13.2	4.9	2.5	2.5	2.5	6.8	2.6	2.6	5.8	3.2	3.1	1.0	0.6	0.7
40M	3.5	5.1	21.7	17.8	6.8	2.7	3.0	6.4	5.0	3.5	6.2	3.3	3.3	3.5	5.6	1.1	1.6

TABLE 4.2- 7C HOURLY AVERAGES AND STANDARD DEVIATIONS

TIME(HR)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WIND SPD																								
H=																								
10M																								
MEAN	1.2	1.2	1.2	1.2	1.2	1.3	1.8	2.0	2.1	2.1	2.5	2.5	2.7	2.6	2.5	2.4	2.2	2.1	2.0	1.9	1.8	1.5	1.7	1.6
SIGM	1.1	1.3	1.1	1.3	1.2	1.2	1.6	1.4	1.4	1.3	1.2	1.3	1.1	1.3	1.3	1.4	1.5	1.7	1.7	1.7	1.5	1.4	1.4	1.4
20M																								
MEAN	1.7	1.6	1.5	1.7	1.6	1.8	2.3	2.6	2.7	2.6	3.1	3.1	3.3	3.2	3.1	3.0	2.8	2.7	2.8	2.6	2.6	2.1	2.2	2.2
SIGM	1.5	1.6	1.5	1.7	1.6	1.6	2.0	1.8	1.8	1.7	1.5	1.6	1.3	1.6	1.6	1.8	1.9	2.2	2.0	2.0	1.9	1.8	1.9	1.9
40M																								
MEAN	2.5	2.5	2.6	2.7	2.8	2.7	3.1	3.2	3.4	3.3	3.8	3.9	4.0	4.1	3.9	3.9	3.8	3.6	3.8	3.7	3.5	3.0	3.3	3.2
SIGM	1.7	1.8	1.6	1.7	1.6	1.6	2.2	2.2	2.0	1.8	1.6	1.8	1.6	1.9	1.9	2.0	2.2	2.5	2.2	2.1	2.1	1.8	1.9	2.0
TEMPERA-																								
TURE																								
MEAN	19.6	19.4	19.4	19.3	19.3	19.6	20.1	20.7	21.5	20.6	20.8	22.0	22.0	22.0	21.8	21.6	21.0	20.5	20.2	20.2	20.2	20.1	20.0	20.0
SIGM	2.8	2.8	2.8	2.8	2.8	2.8	3.1	3.5	3.9	7.9	7.9	4.2	4.3	4.3	3.9	3.8	3.6	3.4	3.3	3.2	3.2	3.0	3.1	3.1
HUMIDITY																								
MEAN	89.9	89.6	90.0	90.1	89.9	89.3	86.7	85.5	82.7	81.6	77.0	80.3	80.3	80.4	81.5	82.6	85.3	86.8	88.3	89.1	89.6	89.5	89.4	89.9
SIGM	4.0	4.2	4.1	4.9	4.5	4.2	6.0	5.7	7.5	7.7	16.6	8.2	8.1	8.4	7.7	7.1	6.3	5.4	4.9	4.4	4.1	4.8	4.2	3.4
LAPSE																								
RATE																								
MEAN	-0.1	0.0	-0.0	0.3	-0.0	-0.9	-1.3	-1.9	-2.2	-2.2	-2.3	-2.5	-2.4	-2.2	-2.2	-1.6	-1.4	-1.1	-0.4	-0.1	-0.1	0.3	0.0	-0.1
SIGM	1.2	1.4	1.3	2.1	1.3	1.0	1.0	1.0	1.0	0.7	0.9	0.7	0.8	1.1	0.8	1.0	0.8	1.3	1.3	1.6	1.8	1.8	1.4	1.2
STABIL.																								
RATIO																								
MEAN	-0.1	0.1	-0.0	0.0	-0.2	-0.2	-0.4	-0.6	-0.9	-0.9	-0.5	-0.6	-0.5	-0.5	-0.6	-0.4	-0.4	-0.3	0.0	0.0	0.3	-0.1	-0.1	0.1
SIGM	0.5	0.5	0.7	0.8	0.2	0.3	0.6	0.8	1.0	0.9	0.5	0.6	0.4	0.5	0.7	0.4	0.4	0.4	0.7	0.5	1.1	0.4	0.3	0.6
RADIA-																								
TION																								
MEAN	0.1	0.1	0.1	0.1	0.0	0.0	0.7	1.0	1.5	1.5	1.7	1.8	1.7	1.6	1.3	0.9	0.5	0.0	0.1	0.1	0.1	0.1	0.1	0.1
SIGM	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.6	0.9	1.0	1.0	1.1	1.0	1.0	0.8	0.5	0.4	0.0	0.1	0.0	0.1	0.1	0.1	0.0

TABLE 4.2- 7D FREQUENCY DISTRIBUTIONS OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	22	0	0	0	6	4	3	1	2	0	3	1	1	1	0	0	0	0
A-B	68	1	2	11	13	8	3	3	11	1	3	1	4	5	1	1	0	0
B	86	1	4	14	13	2	8	8	15	3	1	6	3	2	5	0	1	0
B-C	17	0	9	6	0	0	0	0	2	0	0	0	0	0	0	0	0	0
C	45	0	22	7	0	0	0	1	8	1	1	5	0	0	0	0	0	0
C-D	12	0	10	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
D1	83	1	30	19	3	2	2	4	7	1	3	5	0	2	1	2	0	1
D2	267	18	73	58	19	7	5	8	10	10	8	16	4	12	12	5	2	0
E	14	5	3	1	1	0	0	0	0	1	0	2	0	0	1	0	0	0
F	3	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	100	11	2	5	8	5	2	2	1	7	7	8	11	13	13	3	2	0
LACK	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27

TABLE 4.2- 7E FREQUENCY DISTRIBUTIONS OF WIND DIRECTION AND SPEED

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
10M																			
-0.4	117																	9	126
0.5-0.9		4	2	10	12	5	5	9	6	1	5	9	4	12	9	3	2	3	101
1.0-1.9		11	12	30	25	14	9	9	16	6	10	13	10	13	10	0	2	2	192
2.0-2.9		8	27	37	11	3	2	2	16	6	5	9	0	0	3	0	0	1	130
3.0-3.9		8	57	27	2	0	0	0	13	0	0	3	0	0	0	0	0	2	112
4.0-4.9		1	38	13	0	0	0	0	2	1	0	0	0	0	0	0	0	0	55
5.0-5.9		0	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13
6.0-6.9		0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7.0-7.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0-8.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11
TOTL	117	32	152	118	50	22	16	20	53	14	20	34	14	25	22	3	4	28	744
20M																			
-0.4	107																	7	114
0.5-0.9		2	3	7	4	4	4	3	2	2	4	4	7	5	5	3	4	3	66
1.0-1.9		4	17	17	23	11	9	7	12	5	6	14	9	10	1	1	1	3	150
2.0-2.9		11	12	37	7	3	4	7	14	7	6	10	7	6	0	0	0	1	132
3.0-3.9		10	38	24	1	0	1	1	14	5	3	9	0	1	1	0	0	2	110
4.0-4.9		11	55	7	0	0	0	0	6	0	0	5	0	0	0	0	0	1	85
5.0-5.9		3	45	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	51
6.0-6.9		3	12	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16
7.0-7.9		1	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
8.0-8.9		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11
TOTL	107	45	190	95	35	18	18	18	49	19	19	42	23	22	7	4	5	28	744
40M																			
-0.4	26																	0	26
0.5-0.9		1	0	3	7	2	2	3	0	3	1	3	3	2	2	2	2	2	38
1.0-1.9		3	4	13	14	7	10	6	6	4	10	7	8	7	19	4	3	9	134
2.0-2.9		4	12	18	19	7	6	14	6	8	12	7	8	13	13	1	5	3	156
3.0-3.9		10	17	34	7	2	3	10	6	6	8	2	4	2	4	1	1	0	117
4.0-4.9		8	33	22	1	0	0	7	9	4	4	1	0	1	1	0	0	2	93
5.0-5.9		9	39	16	0	1	0	6	7	0	7	3	0	0	0	0	0	0	88
6.0-6.9		2	29	18	0	0	0	0	2	0	2	0	0	0	0	0	0	1	54
7.0-7.9		0	11	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
8.0-8.9		0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
9.0-9.9		0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
10.0-		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11
TOTL	26	37	157	128	48	19	21	46	36	25	44	23	23	25	39	8	11	28	744

TABLE 4.2- 8A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMID-ITY PERCENT	PRECIP-ITAT. MM	SOLAR RAD. MJ/SQ(M)/DAY	NET RAD.	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	21.7	91.0	6.5	8.1	0.8	3.0	4.0	5.3
2	20.6	86.6	0.0	21.7	1.0	3.1	3.9	4.9
3	23.6	82.1	0.0	24.8	1.3	1.3	1.9	2.8
4	23.2	85.5	0.0	22.2	0.7	1.4	1.9	2.4
5	26.2	87.3	0.0	23.8	1.0	1.4	1.9	2.6
6	26.9	84.7	0.0	23.4	1.7	1.6	2.3	3.3
7	28.9	79.2	0.0	22.6	1.5	1.3	2.2	3.1
8	26.3	83.6	0.0	24.6	2.0	1.1	1.5	2.6
9	23.9	87.9	0.0	20.0	1.2	1.9	2.4	3.1
10	23.4	89.6	0.5	18.7	0.7	2.2	2.8	3.8
11	24.8	86.2	0.0	23.8	1.3	1.0	1.2	1.8
12	25.5	84.1	0.0	18.9	1.5	1.3	1.9	2.9
13	25.8	85.9	0.0	26.5	2.1	1.3	1.5	2.0
14	24.6	88.5	0.0	18.8	1.0	3.6	4.6	5.9
15	23.7	92.8	7.0	6.9	0.5	4.4	5.8	7.6
16	24.3	94.4	5.5	11.6	0.5	1.9	2.9	4.4
17	24.4	93.2	26.5	3.6	0.5	2.5	3.6	6.0
18	26.0	89.4	4.5	6.9	0.6	1.6	2.7	3.9
19	28.0	70.4	0.0	18.3	1.1	1.7	2.4	3.7
20	25.0	76.2	0.0	22.6	1.1	3.4	4.5	6.0
21	22.1	82.5	0.0	11.6	0.9	1.7	2.3	2.9
22	23.1	80.9	0.0	7.9	1.2	0.5	0.8	1.2
23	23.1	76.1	0.0	15.2	1.1	2.0	2.6	3.6
24	21.9	78.3	0.0	8.3	0.5	2.9	3.7	4.6
25	23.7	83.7	0.0	14.2	0.9	0.8	1.3	2.0
26	22.8	83.2	0.0	15.8	0.8	3.9	5.0	6.4
27	22.3	85.2	0.0	14.3	0.5	3.2	4.1	5.2
28	22.5	80.9	0.0	8.5	0.6	1.5	2.0	2.5
29	26.3	81.0	0.0	17.6	1.0	1.0	1.8	2.5
30	27.1	75.6	0.0	22.1	1.2	1.2	1.6	2.6
31	25.4	82.0	1.0	19.8	1.4	1.2	1.6	2.5
MONTH	24.4	84.1	51.5	16.9	1.0	2.0	2.7	3.7
LACK	2	2	0	2	0	2	2	2

TABLE 4.2- 8B DISTRIBUTION OF WIND DIRECTION FREQUENCIES (%)

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	15.8	1.6	27.5	11.6	5.7	2.8	2.2	3.6	8.4	1.6	2.0	3.5	3.0	4.0	3.5	2.7	0.5
20M	9.2	2.3	29.6	11.5	5.1	2.3	2.6	6.1	5.8	1.6	2.2	5.0	4.3	4.6	4.4	2.4	1.1
40M	3.6	1.3	28.7	13.5	5.0	1.8	3.2	8.5	3.4	2.2	2.4	4.3	5.4	5.0	5.8	4.2	1.8

TABLE 4.2- 8C HOURLY AVERAGES AND STANDARD DEVIATIONS

TIME(HR)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WIND SPD																								
H=																								
10M																								
MEAN	1.2	1.1	1.3	1.5	1.6	1.6	1.8	1.9	2.2	2.4	2.5	2.6	2.9	2.9	2.8	2.9	2.6	2.3	1.7	1.6	1.5	1.5	1.4	1.4
SIGM	1.3	1.4	1.5	1.5	1.6	1.6	1.7	1.4	1.5	1.4	1.3	1.2	1.3	1.3	1.2	1.2	1.4	1.4	1.3	1.2	1.4	1.5	1.4	1.3
20M																								
MEAN	1.8	1.7	1.9	2.1	2.4	2.3	2.5	2.7	2.8	3.1	3.2	3.3	3.7	3.8	3.6	3.7	3.4	3.1	2.5	2.3	2.3	2.0	2.0	1.9
SIGM	1.7	1.6	1.8	1.8	2.0	2.0	2.1	1.8	1.9	1.8	1.6	1.5	1.6	1.6	1.5	1.6	1.8	1.8	1.6	1.5	1.6	1.8	1.7	1.6
40M																								
MEAN	2.8	2.7	2.9	3.3	3.4	3.4	3.5	3.6	3.7	3.8	4.0	4.1	4.7	4.8	4.7	4.7	4.5	4.2	3.8	3.4	3.4	3.1	3.1	2.9
SIGM	2.1	1.9	2.1	2.3	2.5	2.4	2.6	2.3	2.5	2.3	2.0	1.9	2.1	2.1	2.0	2.1	2.2	2.1	2.0	1.8	1.9	2.1	1.9	2.1
TEMPERA-																								
TURE																								
MEAN	23.6	23.3	23.1	23.1	23.1	23.1	23.8	24.5	25.2	25.7	25.9	26.0	26.1	26.0	25.8	25.5	24.7	24.3	24.2	24.1	24.0	23.8	23.7	23.5
SIGM	1.6	1.6	1.5	1.7	1.6	1.7	2.1	2.5	2.7	3.1	2.9	2.9	3.0	3.4	3.1	2.7	2.5	2.2	2.2	2.1	2.0	1.8	1.8	1.7
HUMIDITY																								
MEAN	88.5	89.6	89.7	89.4	89.0	88.5	86.7	84.3	80.2	78.7	78.2	76.5	75.7	77.2	78.2	79.5	82.8	85.0	85.5	85.9	86.2	87.3	87.6	88.1
SIGM	6.1	5.5	5.5	5.8	6.3	6.4	7.4	7.3	8.9	9.2	8.9	16.3	12.7	9.8	9.3	7.7	6.4	6.2	7.4	6.2	6.0	4.8	6.0	5.9
LAPSE																								
RATE																								
MEAN	-0.0	0.2	0.3	0.1	-0.2	-0.9	-1.3	-1.8	-2.3	-2.4	-2.5	-2.8	-2.8	-2.6	-2.4	-2.1	-1.6	-1.0	-0.4	-0.0	0.2	0.2	0.2	0.3
SIGM	1.3	1.6	1.5	1.4	1.0	0.7	0.5	0.7	0.8	0.7	0.7	0.9	1.0	0.9	0.8	0.7	0.6	0.9	1.5	1.9	1.9	1.5	1.7	1.7
STABIL.																								
RATIO																								
MEAN	-0.0	-0.3	-0.1	0.1	-0.1	-0.4	-0.5	-0.8	-0.7	-0.7	-0.6	-0.6	-0.5	-0.4	-0.4	-0.3	-0.3	-0.3	-0.0	-0.2	-0.3	-0.1	-0.2	-0.1
SIGM	0.4	0.6	0.4	0.9	0.5	0.4	0.4	0.9	0.6	0.6	0.5	0.5	0.4	0.3	0.4	0.2	0.3	0.3	0.6	0.5	0.3	0.2	0.3	0.8
RADIA-																								
TION																								
MEAN	0.1	0.1	0.1	0.1	0.1	0.0	0.6	1.0	1.7	2.1	2.1	2.2	2.2	1.9	1.5	1.1	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1
SIGM	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.5	0.7	0.9	0.9	1.0	1.0	1.0	0.8	0.5	0.3	0.0	0.1	0.1	0.1	0.1	0.0	0.0

TABLE 4.2- 8D FREQUENCY DISTRIBUTIONS OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	36	0	1	1	4	4	2	2	5	1	5	3	2	0	3	3	0	0
A-B	71	0	0	10	10	9	3	10	12	1	3	1	2	6	1	3	0	0
B	76	1	8	11	12	3	3	1	12	1	1	5	7	5	2	4	0	0
B-C	15	0	7	2	0	0	0	0	4	0	1	0	0	0	1	0	0	0
C	45	0	23	10	1	0	0	2	8	0	1	0	0	0	0	0	0	0
C-D	15	0	14	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D1	81	2	35	15	3	3	2	7	6	1	0	3	1	1	2	0	0	0
D2	244	5	103	30	13	5	4	4	12	3	2	9	11	15	15	9	4	0
E	10	0	7	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0
F	3	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	146	6	7	13	5	0	5	3	5	12	10	14	8	16	23	12	7	0
LACK	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

TABLE 4.2- 8E FREQUENCY DISTRIBUTIONS OF WIND DIRECTION AND SPEED

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
10M																			
-0.4	117																	0	117
0.5-0.9		2	6	7	8	5	7	4	3	5	5	12	12	17	12	5	3	0	113
1.0-1.9		8	25	27	18	12	5	9	11	5	6	10	10	11	13	12	1	0	183
2.0-2.9		2	48	27	14	4	3	9	21	1	3	4	0	2	0	3	0	0	141
3.0-3.9		0	64	14	2	0	1	5	18	1	1	0	0	0	1	0	0	0	107
4.0-4.9		0	41	4	0	0	0	0	9	0	0	0	0	0	0	0	0	0	54
5.0-5.9		0	13	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18
6.0-6.9		0	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
7.0-7.9		0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8.0-8.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
TOTL	117	12	204	86	42	21	16	27	62	12	15	26	22	30	26	20	4	2	744
20M																			
-0.4	68																	0	68
0.5-0.9		1	6	7	6	1	3	0	5	2	4	4	4	5	9	6	2	0	65
1.0-1.9		5	18	15	13	7	5	10	2	5	6	18	18	19	19	9	5	0	174
2.0-2.9		7	26	32	16	7	8	14	11	2	3	8	8	6	5	3	1	0	157
3.0-3.9		4	44	16	3	2	0	12	7	1	2	3	2	3	0	0	0	0	99
4.0-4.9		0	48	11	0	0	1	7	11	1	1	4	0	1	0	0	0	0	85
5.0-5.9		0	40	4	0	0	2	2	7	1	0	0	0	0	0	0	0	0	56
6.0-6.9		0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21
7.0-7.9		0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
8.0-8.9		0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
9.0-9.9		0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
TOTL	68	17	220	85	38	17	19	45	43	12	16	37	32	34	33	18	8	2	744
40M																			
-0.4	27																	0	27
0.5-0.9		0	0	1	2	0	1	1	0	2	1	0	3	2	4	4	1	0	22
1.0-1.9		1	10	11	12	4	7	6	3	5	6	10	11	7	17	9	6	0	125
2.0-2.9		3	21	26	7	3	5	11	3	4	3	8	16	21	13	4	5	0	153
3.0-3.9		3	28	21	12	3	4	16	7	2	4	6	6	6	8	6	1	0	133
4.0-4.9		3	32	17	3	2	1	9	1	0	2	5	4	0	1	4	0	0	84
5.0-5.9		0	40	13	1	0	3	7	5	2	1	1	0	0	0	2	0	0	75
6.0-6.9		0	37	6	0	1	0	7	4	0	0	2	0	1	0	2	0	0	60
7.0-7.9		0	22	1	0	0	1	3	1	1	1	0	0	0	0	0	0	0	30
8.0-8.9		0	9	1	0	0	2	3	1	0	0	0	0	0	0	0	0	0	16
9.0-9.9		0	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
10.0-		0	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
TOTL	27	10	213	100	37	13	24	63	25	16	18	32	40	37	43	31	13	2	744

TABLE 4.2- 9A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMID-ITY PERCENT	PRECIP-ITAT. MM	SOLAR RAD. MJ/SQ(M)/DAY	NET RAD.	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	23.6	88.7	2.0	7.0	2.0	0.7	1.1	1.9
2	23.8	84.5	0.0	21.4	1.5	1.8	2.4	3.3
3	24.7	87.4	0.0	20.4	1.1	1.3	1.8	2.2
4	25.2	84.2	0.0	19.8	1.5	1.0	1.2	1.7
5	26.1	83.1	0.0	20.1	1.5	1.0	1.4	2.1
6	26.9	81.9	0.0	19.5	1.4	1.6	2.3	3.4
7	25.1	82.8	6.5	18.5	1.5	1.7	2.4	3.1
8	22.2	88.0	10.5	5.1	1.2	1.2	1.8	2.7
9	21.5	72.8	0.0	18.6	1.8	2.8	3.9	5.1
10	21.8	81.1	0.0	12.0	1.1	0.9	1.3	1.8
11	22.7	83.6	0.0	7.6	0.8	1.7	2.4	3.1
12	23.5	89.3	0.5	8.0	0.8	0.7	1.1	1.5
13	23.6	77.6	0.0	21.5	2.3	1.2	1.7	2.7
14	21.9	70.5	0.0	14.3	1.4	1.1	1.6	2.5
15	20.5	76.1	10.0	3.6	0.8	2.2	3.0	4.3
16	18.9	78.0	10.5	4.7	1.1	3.0	4.0	5.5
17	20.0	71.5	0.0	20.8	1.6	3.0	3.9	5.3
18	20.1	69.2	0.0	10.7	1.1	2.3	3.2	4.1
19	19.5	77.1	0.0	8.6	1.2	1.0	1.5	2.3
20	20.3	84.0	0.0	8.4	1.0	0.6	1.2	2.0
21	20.5	86.8	1.5	8.6	0.6	1.2	1.7	2.3
22	21.3	77.3	17.5	9.0	1.2	2.5	3.4	4.7
23	19.6	76.8	0.0	17.3	2.2	1.5	2.3	3.2
24	18.3	89.5	18.0	3.0	0.9	1.1	1.7	2.6
25	20.6	88.0	0.0	6.7	1.3	0.8	1.6	2.3
26	20.2	75.0	0.0	12.8	1.2	2.0	2.7	4.1
27	17.0	84.5	15.5	5.7	1.0	1.2	1.8	2.7
28	16.4	74.3	74.0	2.1	0.8	4.2	5.4	7.3
29	17.5	54.4	2.0	20.7	1.5	4.2	5.6	7.2
30	16.7	76.7	0.0	13.6	1.6	1.0	1.4	2.5
MONTH	21.3	79.8	168.5	12.3	1.3	1.7	2.4	3.3
LACK	2	3	0	1	0	1	1	1

TABLE 4.2- 9B DISTRIBUTION OF WIND DIRECTION FREQUENCIES (%)

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	19.2	7.0	17.1	12.9	6.1	3.6	3.1	2.5	3.2	0.6	1.3	1.8	1.1	3.6	10.6	3.1	3.3
20M	8.6	9.6	17.5	11.8	5.8	5.1	2.2	3.1	3.1	1.0	2.1	2.4	2.9	6.8	10.7	3.1	4.2
40M	2.2	9.6	18.8	12.0	6.5	4.6	3.2	4.9	1.8	1.9	1.8	2.8	2.2	6.4	10.8	6.5	3.9

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TABLE 4.2- 9C HOURLY AVERAGES AND STANDARD DEVIATIONS

TIME(HR)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WIND SPD																								
H=																								
10M																								
MEAN	1.2	1.1	1.1	1.0	0.8	0.9	1.3	1.4	2.0	2.0	2.3	2.4	2.6	2.5	2.4	2.4	2.3	1.9	1.9	1.7	1.4	1.3	1.2	1.3
SIGM	1.6	1.4	1.6	1.3	0.9	0.9	0.9	1.1	1.3	1.2	1.2	1.3	1.3	1.3	1.4	1.5	1.7	1.8	1.7	1.8	1.7	1.8	1.7	1.6
20M																								
MEAN	1.9	1.7	1.7	1.7	1.4	1.5	1.8	2.0	2.5	2.6	2.9	3.1	3.3	3.2	3.2	3.2	3.2	2.8	2.6	2.4	2.1	2.0	1.9	2.0
SIGM	2.0	1.8	1.8	1.7	1.2	1.2	1.2	1.3	1.6	1.5	1.4	1.7	1.7	1.5	1.7	1.8	2.0	2.2	2.2	2.2	2.1	2.2	2.2	2.0
40M																								
MEAN	3.2	2.9	2.9	2.9	2.5	2.5	2.6	2.6	3.1	3.2	3.5	3.8	4.0	4.0	4.0	4.1	4.3	3.8	3.7	3.5	3.2	3.0	3.1	3.2
SIGM	2.4	2.0	2.2	1.9	1.4	1.4	1.5	1.6	1.9	1.9	1.7	2.2	2.1	1.9	2.2	2.3	2.5	2.7	2.7	2.7	2.6	2.6	2.6	2.3
TEMPERA-																								
TURE																								
MEAN	20.3	20.0	19.7	19.6	19.5	19.6	20.6	21.7	22.5	23.0	23.2	23.3	23.1	22.9	22.8	22.4	21.9	21.5	21.3	21.1	20.9	20.7	20.4	20.2
SIGM	2.8	2.9	2.9	2.9	2.8	2.9	2.8	3.1	3.3	3.5	3.3	3.3	3.3	3.1	3.1	3.0	2.9	2.8	2.8	2.7	2.7	2.8	2.8	2.9
HUMIDITY																								
MEAN	85.8	86.4	85.9	86.7	87.2	86.5	83.0	79.8	74.0	73.0	70.7	69.5	72.1	72.9	73.7	75.2	76.3	80.4	80.2	82.0	82.3	82.5	84.6	84.4
SIGM	9.5	8.4	9.9	9.3	7.2	7.0	9.4	10.9	11.8	11.3	10.5	11.3	11.9	12.4	11.3	11.6	11.6	11.0	10.6	10.8	11.3	10.8	9.5	9.8
LAPSE																								
RATE																								
MEAN	0.3	0.3	0.5	0.6	0.6	0.2	-0.9	-1.6	-1.9	-2.1	-2.4	-2.5	-2.4	-2.3	-2.2	-1.7	-1.2	-0.7	-0.0	0.2	0.5	0.4	0.3	0.3
SIGM	1.6	1.8	1.8	1.4	1.9	1.6	0.7	0.6	0.5	0.7	0.7	0.9	0.9	0.9	0.8	0.8	0.7	1.0	1.9	2.0	2.3	2.0	1.6	1.8
STABIL.																								
RATIO																								
MEAN	0.1	****	****	0.3	****	0.2	-0.4	-0.5	-0.7	-0.7	-0.6	-0.5	-0.5	-0.5	-0.6	-0.5	-0.4	-0.2	-0.2	-0.3	-0.2	-0.1	-0.2	-0.1
SIGM	1.1	****	****	0.8	****	1.9	0.4	0.4	0.7	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.3	0.3	0.4	0.2	0.5	0.3	0.4
RADIA-																								
TION																								
MEAN	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.9	1.3	1.6	1.8	1.8	1.7	1.4	1.1	0.7	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
SIGM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	1.0	1.0	1.0	1.0	0.9	0.6	0.4	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0

TABLE 4.2- 9D FREQUENCY DISTRIBUTIONS OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	19	0	2	1	2	5	3	2	1	1	1	1	0	0	0	0	0	0
A-B	67	1	3	4	12	13	5	7	4	0	1	5	2	2	4	3	1	0
B	68	2	9	15	11	5	8	5	4	0	1	2	1	1	3	1	0	0
B-C	6	0	3	1	0	0	0	1	1	0	0	0	0	0	0	0	0	0
C	34	3	14	16	0	0	0	0	1	0	0	0	0	0	0	0	0	0
C-D	7	0	3	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0
D1	68	9	20	12	4	0	1	2	5	1	3	1	0	2	3	3	2	0
D2	226	26	51	23	9	8	1	1	5	3	4	4	7	16	35	15	18	0
E	19	0	8	9	1	0	0	0	1	0	0	0	0	0	0	0	0	0
F	7	2	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	198	12	10	10	8	4	8	4	7	7	5	6	11	14	58	19	15	0
LACK	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

TABLE 4.2- 9E FREQUENCY DISTRIBUTIONS OF WIND DIRECTION AND SPEED

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
10M																			
-0.4	138																	0	138
0.5-0.9		9	2	4	8	1	7	2	3	2	6	7	6	17	45	13	18	0	150
1.0-1.9		17	19	28	26	16	9	5	10	2	3	5	2	9	31	9	6	0	197
2.0-2.9		10	40	29	8	9	5	9	5	0	0	1	0	0	0	0	0	0	116
3.0-3.9		10	22	14	2	0	1	2	3	0	0	0	0	0	0	0	0	0	54
4.0-4.9		1	22	14	0	0	0	0	1	0	0	0	0	0	0	0	0	0	38
5.0-5.9		0	10	2	0	0	0	0	1	0	0	0	0	0	0	0	0	0	13
6.0-6.9		1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7.0-7.9		2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
8.0-8.9		0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
9.0-9.9		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
TOTL	138	50	123	93	44	26	22	18	23	4	9	13	8	26	76	22	24	1	720
20M																			
-0.4	62																	0	62
0.5-0.9		5	1	3	6	3	3	1	3	2	8	3	8	8	13	12	9	0	88
1.0-1.9		17	7	15	12	15	5	4	5	4	5	11	10	27	56	9	18	0	220
2.0-2.9		16	20	22	18	15	5	12	8	1	1	3	3	14	8	1	2	0	149
3.0-3.9		12	39	17	4	4	3	3	3	0	1	0	0	0	0	0	0	0	86
4.0-4.9		13	14	10	1	0	0	2	1	0	0	0	0	0	0	0	1	0	42
5.0-5.9		2	16	13	1	0	0	0	2	0	0	0	0	0	0	0	0	0	34
6.0-6.9		1	14	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19
7.0-7.9		0	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
8.0-8.9		1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
9.0-9.9		2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
10.0-		0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
TOTL	62	69	126	85	42	37	16	22	22	7	15	17	21	49	77	22	30	1	720
40M																			
-0.4	16																	0	16
0.5-0.9		3	3	0	2	3	1	3	1	1	2	1	0	1	1	1	2	0	25
1.0-1.9		13	6	6	7	8	7	4	3	8	5	9	8	15	22	15	9	0	145
2.0-2.9		15	18	16	18	17	6	10	2	5	4	8	5	22	36	15	12	0	209
3.0-3.9		11	22	16	13	3	6	13	1	0	1	2	2	8	16	12	4	0	130
4.0-4.9		8	28	16	3	0	3	3	2	0	1	0	1	0	3	4	0	0	72
5.0-5.9		8	10	9	1	2	0	1	2	0	0	0	0	0	0	0	0	0	33
6.0-6.9		7	17	8	2	0	0	1	2	0	0	0	0	0	0	0	1	0	38
7.0-7.9		1	10	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	21
8.0-8.9		0	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
9.0-9.9		0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
10.0-		3	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
TOTL	16	69	135	86	47	33	23	35	13	14	13	20	16	46	78	47	28	1	720

TABLE 4.2-10A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMID-ITY PERCENT	PRECIP-ITAT. MM	SOLAR RAD. MJ/SQ(M)/DAY	NET RAD.	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	19.4	77.8	0.0	18.6	2.0	1.2	1.9	2.8
2	17.9	76.8	0.0	12.5	1.6	0.8	1.2	1.8
3	19.0	74.7	0.0	15.7	1.4	1.6	2.3	3.0
4	20.2	80.3	0.0	12.3	1.0	1.5	2.1	2.8
5	20.7	78.7	11.5	12.0	1.5	1.3	1.7	2.9
6	17.5	61.2	0.0	17.2	1.3	1.1	1.7	2.8
7	16.6	67.4	0.0	18.4	2.5	1.2	1.7	2.7
8	16.3	68.9	0.5	8.2	1.1	2.0	2.9	3.9
9	19.8	91.5	18.0	5.4	0.6	1.0	1.6	2.7
10	20.1	78.1	0.0	12.0	0.9	0.8	1.3	2.2
11	18.1	79.1	7.5	****	1.6	1.6	2.4	3.9
12	15.3	64.0	0.0	17.4	2.7	1.6	2.3	3.5
13	16.7	79.9	0.0	6.5	0.8	1.1	1.6	2.7
14	17.5	66.0	0.0	9.1	1.8	0.9	1.5	2.5
15	15.1	69.2	0.5	****	2.0	1.1	1.7	2.9
16	16.2	87.1	8.5	5.3	1.6	1.0	1.5	2.4
17	16.6	80.9	0.0	12.9	1.9	1.1	1.8	2.7
18	14.9	56.5	0.0	13.7	1.9	2.3	3.2	4.4
19	12.9	78.5	20.0	3.9	0.9	1.0	1.5	2.5
20	16.4	74.6	10.5	15.9	1.6	1.9	2.7	3.7
21	14.0	73.8	7.5	2.6	0.8	2.5	3.4	4.5
22	16.0	82.0	0.0	14.5	1.3	1.2	1.7	2.6
23	14.2	68.2	1.5	8.1	1.1	1.3	1.9	2.9
24	11.3	62.7	0.0	16.5	2.4	1.1	1.7	2.6
25	10.4	56.8	0.0	16.3	3.4	1.5	2.3	3.8
26	11.5	65.5	0.0	11.0	1.8	1.2	1.8	2.7
27	14.1	72.8	9.5	12.3	2.0	1.1	1.7	3.3
28	11.6	71.9	0.0	15.0	2.5	1.0	1.5	2.9
29	13.7	63.1	0.0	15.1	2.7	1.4	1.9	3.2
30	9.0	49.0	0.0	15.9	3.1	1.0	1.4	2.8
31	8.8	66.5	0.0	13.4	2.5	0.9	1.3	2.5
MONTH	15.5	71.7	95.5	12.1	1.7	1.3	1.9	3.0
LACK	24	25	21	13	11	24	24	24

TABLE 4.2-10B DISTRIBUTION OF WIND DIRECTION FREQUENCIES (%)

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	15.3	8.3	11.0	5.0	4.3	2.9	3.3	3.2	1.8	1.8	1.0	1.8	3.3	5.3	15.6	11.5	4.6
20M	5.4	9.7	10.2	5.6	4.5	3.1	3.6	3.1	1.4	1.3	1.4	2.9	4.9	7.8	17.5	12.2	5.6
40M	1.2	8.7	12.4	5.7	4.4	3.2	3.6	4.2	1.4	1.5	1.2	2.1	3.1	7.4	15.1	17.5	7.2

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TABLE 4.2-10C HOURLY AVERAGES AND STANDARD DEVIATIONS

TIME(HR)		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WIND SPD																									
H=																									
10M																									
	MEAN	0.8	1.0	1.0	0.9	1.0	1.1	1.2	1.2	1.4	1.7	2.0	1.9	2.0	1.9	1.8	1.5	1.3	1.1	1.0	0.9	1.1	1.1	1.2	1.0
	SIGM	0.6	0.8	0.7	0.8	0.7	0.6	0.8	0.8	0.8	1.1	0.8	0.8	0.7	0.6	0.8	0.9	0.9	1.0	0.9	0.6	0.8	0.7	0.8	0.6
20M																									
	MEAN	1.4	1.6	1.7	1.4	1.6	1.8	1.8	1.6	1.8	2.2	2.5	2.5	2.6	2.4	2.4	2.2	2.0	1.8	1.6	1.5	1.7	1.8	1.9	1.5
	SIGM	0.8	1.1	1.0	1.1	0.9	0.9	1.0	1.0	1.1	1.3	1.1	0.9	1.0	0.8	1.0	1.0	1.2	1.2	1.2	0.9	1.1	1.0	1.0	0.8
40M																									
	MEAN	2.9	2.6	3.0	2.8	3.0	3.1	3.0	2.5	2.5	2.7	3.1	3.2	3.3	3.3	3.3	3.1	3.1	3.0	2.8	2.7	3.2	3.1	3.3	2.8
	SIGM	1.1	1.2	1.1	1.5	1.2	1.1	1.1	1.1	1.3	1.6	1.4	1.3	1.5	1.4	1.5	1.6	1.6	1.6	1.5	1.2	1.3	1.2	1.4	1.2
TEMPERA-																									
TURE																									
	MEAN	13.6	13.4	13.2	13.1	13.0	13.0	13.6	15.1	16.9	17.9	18.7	19.0	18.9	18.8	17.3	17.7	16.7	16.0	15.5	14.9	14.6	14.3	13.8	13.5
	SIGM	4.1	4.4	4.5	4.5	4.4	4.6	4.4	3.7	3.2	3.2	3.2	3.2	3.1	3.0	5.6	3.0	3.5	3.5	3.7	3.7	3.8	4.1	4.2	4.2
HUMIDITY																									
	MEAN	80.5	80.4	80.9	80.7	80.5	80.1	78.4	74.3	67.6	61.9	58.1	56.8	57.1	59.2	61.7	65.0	69.5	71.2	73.0	75.4	75.3	75.8	77.3	78.8
	SIGM	13.3	13.4	12.6	11.5	13.3	13.2	12.1	13.5	13.4	14.0	12.7	13.0	13.9	15.2	15.5	15.4	13.1	13.3	12.1	12.1	13.1	13.1	12.0	12.2
LAPSE																									
RATE																									
	MEAN	1.7	1.7	1.3	1.6	1.9	1.7	0.0	-1.2	-1.9	-2.0	-2.4	-2.4	-2.4	-2.2	-1.7	-0.8	0.6	1.7	1.8	1.9	1.8	1.9	1.8	1.9
	SIGM	3.0	2.5	2.4	2.5	2.7	2.9	1.9	1.0	0.8	0.8	0.7	0.9	0.6	0.6	0.5	1.0	2.4	2.8	2.9	2.8	3.2	3.2	3.0	3.1
STABIL.																									
RATIO																									
	MEAN	****	0.9	0.4	0.8	****	1.8	-0.2	-0.7	-1.0	-0.8	-0.7	-0.8	-0.7	-0.7	-0.7	-0.4	-0.1	0.4	0.4	0.5	0.3	0.7	0.9	0.6
	SIGM	****	2.2	1.2	1.1	****	3.4	0.8	0.6	0.7	0.6	0.5	0.5	0.4	0.4	0.5	0.4	0.9	1.2	1.9	1.1	0.8	1.4	1.8	1.2
RADIA-																									
TION																									
	MEAN	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.8	1.4	1.7	2.0	2.0	1.7	1.4	0.8	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	SIGM	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.4	0.7	0.7	0.7	0.8	0.7	0.6	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TABLE 4.2-10D FREQUENCY DISTRIBUTIONS OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	23	0	3	3	4	0	2	4	0	0	1	1	2	1	1	0	1	0
A-B	94	2	2	3	8	11	6	9	4	1	0	2	5	7	11	15	8	0
B	70	2	12	11	5	4	12	7	0	2	1	0	1	2	4	7	0	0
B-C	7	0	3	1	0	0	0	0	2	0	0	0	0	0	0	0	1	0
C	13	1	7	2	0	0	0	0	2	1	0	0	0	0	0	0	0	0
C-D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D1	59	9	13	2	8	3	3	3	3	1	0	3	2	0	3	5	1	0
D2	192	21	25	8	4	1	2	0	1	1	3	6	6	16	41	42	15	0
E	7	1	3	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0
F	15	4	3	1	0	0	0	0	0	0	0	0	0	0	2	3	2	0
G	240	24	11	6	6	3	2	2	1	10	3	10	17	22	73	42	8	0
LACK	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24

TABLE 4.2-10E FREQUENCY DISTRIBUTIONS OF WIND DIRECTION AND SPEED

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
10M																			
-0.4	110																	0	110
0.5-0.9		12	6	3	7	5	2	3	2	5	3	8	14	15	55	44	12	0	196
1.0-1.9		31	19	17	18	10	14	15	6	6	3	5	9	21	50	27	13	0	264
2.0-2.9		13	26	13	6	6	8	5	2	2	1	0	1	2	6	12	6	0	109
3.0-3.9		4	25	3	0	0	0	0	3	0	0	0	0	0	1	0	1	0	37
4.0-4.9		0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	4
5.0-5.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6.0-6.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0-7.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0-8.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24
TOTL	110	60	79	36	31	21	24	23	13	13	7	13	24	38	112	83	33	24	744
20M																			
-0.4	39																	0	39
0.5-0.9		4	1	2	2	2	1	1	1	0	1	5	5	6	31	38	10	0	110
1.0-1.9		16	11	9	15	8	12	10	1	3	5	14	19	20	71	34	17	0	265
2.0-2.9		25	20	16	11	11	12	8	3	5	4	2	9	24	18	10	6	1	185
3.0-3.9		17	26	11	4	1	1	3	4	1	0	0	2	4	6	6	4	0	90
4.0-4.9		8	13	2	0	0	0	0	1	0	0	0	0	2	0	0	2	0	28
5.0-5.9		0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
6.0-6.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
7.0-7.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0-8.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24
TOTL	39	70	73	40	32	22	26	22	10	9	10	21	35	56	126	88	40	25	744
40M																			
-0.4	9																	0	9
0.5-0.9		3	1	2	1	0	0	1	1	0	2	0	0	4	2	4	2	0	23
1.0-1.9		6	6	4	11	8	9	6	3	1	1	8	4	8	20	19	19	0	133
2.0-2.9		16	13	9	8	10	13	14	2	4	2	6	14	17	43	44	15	0	230
3.0-3.9		16	21	9	6	3	3	4	2	1	4	1	3	15	30	29	6	0	153
4.0-4.9		16	26	12	5	2	1	5	2	5	0	0	0	8	11	15	4	0	112
5.0-5.9		5	18	5	1	0	0	0	0	0	0	0	1	1	2	9	3	0	45
6.0-6.9		1	4	0	0	0	0	0	0	0	0	0	0	0	1	4	2	0	12
7.0-7.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
8.0-8.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	24
TOTL	9	63	89	41	32	23	26	30	10	11	9	15	22	53	109	126	52	24	744

TABLE 4.2-11A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMID-ITY PERCENT	PRECIP-ITAT. MM	SOLAR RAD. MJ/SQ(M)	NET RAD. /DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	11.8	68.4	0.0	14.5	2.4	1.9	2.7	4.1
2	12.6	72.7	0.0	13.9	2.0	1.1	1.5	2.7
3	12.9	75.4	0.0	10.9	2.1	0.9	1.3	2.4
4	13.1	74.5	0.5	6.7	1.7	1.3	2.0	3.2
5	14.1	70.8	0.0	10.3	1.4	2.6	3.5	4.6
6	12.5	82.0	19.5	1.7	0.9	4.5	5.8	7.4
7	12.2	73.8	1.5	7.7	1.9	3.3	4.5	6.1
8	11.3	76.5	0.0	13.9	2.5	1.0	1.6	2.8
9	12.6	71.0	0.0	10.1	1.8	3.5	4.6	6.3
10	14.4	83.7	7.5	4.9	1.6	3.2	4.3	5.5
11	14.3	80.3	0.0	12.1	2.0	1.1	1.9	2.9
12	11.8	77.9	0.0	8.0	2.4	1.0	1.6	2.9
13	8.9	64.6	0.0	11.1	3.1	1.4	2.2	3.8
14	8.7	65.0	0.0	13.4	3.2	1.2	2.0	3.2
15	8.8	72.4	0.0	4.8	1.9	1.3	1.8	3.2
16	12.1	76.4	0.0	12.9	2.2	0.9	1.4	2.2
17	12.8	66.8	0.0	10.3	2.9	2.1	3.4	4.9
18	9.8	44.8	0.0	13.2	3.5	2.1	4.0	6.1
19	9.7	50.7	0.0	13.1	3.3	1.5	2.7	4.3
20	7.8	75.8	0.0	9.4	2.8	0.7	1.2	2.7
21	8.8	70.2	0.0	11.6	2.5	1.2	1.8	3.4
22	6.8	51.5	0.0	13.0	3.4	1.8	2.4	4.9
23	5.5	57.3	0.0	12.6	2.4	1.2	1.8	3.1
24	10.1	83.3	24.5	5.9	1.7	1.3	2.0	3.5
25	8.1	64.3	0.0	11.8	2.2	1.1	1.7	3.2
26	6.4	65.3	1.0	8.8	2.4	1.3	1.8	3.2
27	3.7	51.5	0.0	12.7	3.4	1.0	2.0	3.4
28	4.2	57.0	0.0	12.4	3.5	1.1	1.6	2.8
29	4.7	69.0	0.0	10.2	2.9	1.0	1.5	2.7
30	7.7	79.3	0.0	9.2	2.1	0.9	1.7	2.5
MONTH	9.9	69.0	54.5	10.4	2.4	1.6	2.4	3.8
LACK	3	4	1	0	2	2	2	2

TABLE 4.2-11B DISTRIBUTION OF WIND DIRECTION FREQUENCIES (%)

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	12.5	6.0	11.7	3.1	2.9	2.2	2.5	0.6	1.0	0.7	2.4	3.3	4.9	7.7	24.4	10.3	3.9
20M	3.6	8.1	10.4	3.3	3.2	2.9	1.8	0.8	0.7	0.7	2.4	4.3	6.1	8.9	27.9	10.9	3.9
40M	1.0	6.5	13.0	3.9	3.2	2.8	2.4	1.1	0.4	1.3	2.6	4.7	4.6	6.1	23.3	17.8	5.3

TABLE 4.2-11C HOURLY AVERAGES AND STANDARD DEVIATIONS

TIME(HR)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WIND SPD H=																								
10M																								
MEAN	1.2	1.2	1.3	1.3	1.3	1.5	1.3	1.6	1.7	2.1	2.1	2.3	2.4	2.4	2.2	2.1	1.8	1.5	1.5	1.4	1.2	1.2	1.2	1.3
SIGM	1.0	1.1	1.2	1.2	1.1	1.0	1.2	1.3	1.4	1.2	1.1	1.3	1.2	1.5	1.3	1.6	1.5	1.6	1.6	1.4	1.4	1.2	1.1	1.1
20M																								
MEAN	1.9	2.0	2.2	2.1	2.0	2.4	2.1	2.2	2.3	2.7	2.9	3.1	3.2	3.2	3.0	3.0	2.8	2.6	2.4	2.1	1.8	1.9	1.9	2.0
SIGM	1.2	1.4	1.4	1.4	1.4	1.5	1.5	1.7	1.8	1.6	1.5	1.6	1.7	1.9	1.7	2.1	1.9	2.2	2.1	1.8	1.7	1.5	1.4	1.4
40M																								
MEAN	3.6	3.7	3.9	3.7	3.9	4.3	3.6	3.5	3.2	3.7	3.8	3.9	4.0	4.1	4.1	4.4	4.3	3.9	4.1	3.7	3.3	3.4	3.6	3.6
SIGM	1.3	1.7	1.7	1.5	1.6	1.8	1.8	1.9	2.2	2.1	2.0	2.2	2.3	2.4	2.2	2.6	2.3	2.7	2.4	2.1	2.0	1.7	1.5	1.5
TEMPERA-TURE																								
MEAN	7.2	6.8	6.4	6.4	6.4	6.4	6.8	8.7	11.0	12.7	13.6	14.2	14.6	14.6	14.2	13.0	11.7	10.9	10.3	9.7	8.9	8.3	7.8	7.5
SIGM	4.0	4.0	4.1	4.0	4.1	4.3	4.3	4.0	3.3	2.9	2.8	2.8	2.8	2.9	2.9	2.8	3.1	3.3	3.6	3.7	3.6	3.8	3.8	4.1
HUMIDITY																								
MEAN	78.6	79.0	79.7	80.2	79.4	77.8	77.4	72.8	66.0	58.6	56.2	53.9	53.5	53.6	55.1	60.2	64.5	66.7	69.1	70.9	73.3	75.1	77.0	77.6
SIGM	8.5	8.9	9.0	8.8	9.7	13.2	10.2	12.7	14.6	17.1	17.9	17.0	16.2	15.9	15.7	15.5	17.0	15.9	15.0	14.7	13.9	11.8	10.0	8.0
LAPSE RATE																								
MEAN	2.9	3.9	3.4	3.0	3.3	3.6	2.7	-0.4	-1.8	-2.1	-2.4	-2.3	-2.1	-1.7	-1.0	0.3	2.0	2.9	2.8	2.3	3.2	3.8	3.3	3.2
SIGM	3.5	3.6	3.0	3.3	3.3	3.7	2.8	1.4	0.7	0.8	0.8	0.7	0.7	0.7	0.9	1.5	3.2	3.9	3.4	2.8	3.9	3.9	3.0	3.0
STABIL. RATIO																								
MEAN	2.4	2.3	2.1	0.7	1.5	1.9	1.5	-0.4	-0.6	-0.8	-0.8	-0.7	-0.7	-0.5	-0.4	-0.1	0.2	0.3	0.7	0.3	0.3	0.7	1.4	1.1
SIGM	3.4	3.5	2.9	0.8	1.9	3.2	2.2	0.5	0.5	0.8	0.6	0.6	0.6	0.5	0.5	0.3	0.5	1.2	2.1	0.7	0.7	1.4	1.8	1.4
RADIA-TION																								
MEAN	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.7	1.2	1.5	1.7	1.7	1.5	1.2	0.7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
SIGM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.5	0.7	0.7	0.6	0.5	0.4	0.3	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TABLE 4.2-11D FREQUENCY DISTRIBUTIONS OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	5	0	0	0	0	0	1	0	0	0	0	0	1	0	3	0	0	0
A-B	80	1	2	0	6	6	7	1	1	0	4	6	8	11	11	12	4	0
B	75	0	4	6	2	5	9	2	2	1	5	3	2	4	15	10	5	0
B-C	16	1	6	2	0	0	0	0	0	0	1	2	2	0	0	1	1	0
C	17	2	6	3	0	0	0	0	1	0	1	0	1	1	0	2	0	0
C-D	8	1	6	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
D1	69	9	20	2	5	3	0	1	3	2	4	2	1	1	7	7	2	0
D2	96	14	34	1	1	0	0	1	0	0	2	0	0	9	20	9	5	0
E	13	1	4	2	1	0	0	0	0	0	0	2	2	0	1	0	0	0
F	18	1	1	2	0	0	0	0	0	0	0	1	2	5	6	0	0	0
G	321	15	5	4	8	4	1	0	0	2	4	11	21	34	139	54	19	0
LACK	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

TABLE 4.2-11E FREQUENCY DISTRIBUTIONS OF WIND DIRECTION AND SPEED

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
10M																			
-0.4	90																	0	90
0.5-0.9		4	1	3	2	3	1	0	2	2	2	6	9	19	68	41	14	0	177
1.0-1.9		13	4	4	16	11	9	4	2	3	5	8	18	29	95	24	10	0	255
2.0-2.9		7	8	11	3	2	8	0	3	0	3	3	4	7	12	7	1	0	79
3.0-3.9		11	32	4	0	0	0	0	0	0	2	7	4	0	0	2	3	0	65
4.0-4.9		6	15	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	25
5.0-5.9		2	21	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	24
6.0-6.9		0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
7.0-7.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0-8.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
TOTL	90	43	84	22	21	16	18	4	7	5	17	24	35	55	175	74	28	2	720
20M																			
-0.4	26																	0	26
0.5-0.9		2	1	1	1	3	0	1	0	0	1	2	3	4	27	23	6	0	75
1.0-1.9		8	3	4	10	6	9	2	3	1	3	3	9	27	127	35	14	0	264
2.0-2.9		12	6	5	10	12	4	3	2	4	3	13	16	25	40	15	4	0	174
3.0-3.9		7	7	9	2	0	0	0	0	0	2	3	7	5	6	2	1	0	51
4.0-4.9		11	22	5	0	0	0	0	0	0	0	3	7	2	0	3	1	0	54
5.0-5.9		9	14	0	0	0	0	0	0	0	3	1	1	1	0	0	2	0	31
6.0-6.9		8	11	0	0	0	0	0	0	0	4	4	1	0	0	0	0	0	28
7.0-7.9		1	9	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	12
8.0-8.9		0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
TOTL	26	58	75	24	23	21	13	6	5	5	17	31	44	64	200	78	28	2	720
40M																			
-0.4	7																	0	7
0.5-0.9		2	2	0	2	0	0	0	0	0	2	1	2	1	2	1	2	0	17
1.0-1.9		5	2	2	4	5	5	2	0	1	0	3	2	8	15	10	9	0	73
2.0-2.9		9	5	7	6	14	9	5	2	4	3	3	5	13	55	31	13	0	184
3.0-3.9		6	8	4	8	1	3	1	1	2	7	9	9	11	50	47	9	0	176
4.0-4.9		4	8	7	2	0	0	0	0	0	0	7	4	6	36	24	2	0	100
5.0-5.9		6	20	7	1	0	0	0	0	0	0	1	3	4	8	9	0	0	59
6.0-6.9		8	16	1	0	0	0	0	0	0	0	2	6	0	1	2	2	0	38
7.0-7.9		1	13	0	0	0	0	0	0	1	2	2	0	0	0	2	0	0	21
8.0-8.9		4	11	0	0	0	0	0	0	1	2	3	1	1	0	1	1	0	25
9.0-9.9		2	7	0	0	0	0	0	0	0	1	2	1	0	0	1	0	0	14
10.0-		0	1	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	4
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
TOTL	7	47	93	28	23	20	17	8	3	9	19	34	33	44	167	128	38	2	720

TABLE 4.2-12A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMID-ITY PERCENT	PRECIP-ITAT. MM	SOLAR RAD. MJ/SQ(M)	NET RAD. /DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	7.1	55.1	0.5	11.9	3.2	1.4	2.4	3.8
2	6.5	66.3	0.0	10.8	2.9	1.3	2.1	3.4
3	7.1	56.5	0.0	10.2	3.5	2.1	2.9	5.1
4	4.2	52.8	0.0	11.8	3.3	0.9	1.7	2.8
5	5.5	63.1	0.0	10.1	1.7	1.3	1.8	3.4
6	4.9	54.5	0.0	11.5	3.3	1.1	1.7	2.9
7	3.8	70.7	0.0	11.6	3.0	1.0	1.7	2.6
8	5.7	61.9	0.0	7.5	1.9	1.0	1.6	3.0
9	4.7	70.3	0.0	11.3	2.6	0.9	1.4	2.3
10	6.4	75.8	0.0	10.4	2.5	1.0	1.7	2.7
11	6.7	82.8	0.0	2.3	1.6	1.0	1.9	2.9
12	5.8	48.6	0.0	12.0	3.2	1.1	2.0	3.5
13	4.2	63.6	0.0	11.0	2.8	1.2	2.2	3.1
14	5.7	58.7	0.0	8.4	2.8	1.4	2.2	4.2
15	4.2	53.5	0.0	8.7	2.6	1.3	1.9	3.0
16	3.7	49.3	0.0	10.4	3.2	1.2	1.8	3.4
17	1.6	59.9	0.0	****	2.5	2.1	2.9	4.2
18	1.3	48.4	0.0	11.5	3.0	1.4	2.1	3.7
19	1.3	54.1	0.0	11.6	3.2	0.8	1.5	2.6
20	1.6	48.3	0.0	11.2	3.6	1.5	2.3	4.0
21	1.5	51.2	0.0	11.2	3.4	1.1	2.0	3.0
22	5.0	62.9	0.0	7.5	1.3	1.3	2.4	3.6
23	7.1	64.3	5.0	4.3	2.5	2.2	3.2	5.2
24	1.9	59.5	1.5	6.4	2.1	0.7	1.1	2.0
25	0.3	72.3	0.0	****	3.0	1.2	2.2	3.3
26	1.3	43.3	0.0	11.6	4.0	2.6	3.9	5.8
27	0.7	46.8	0.0	11.4	3.5	0.9	1.6	2.9
28	2.2	57.0	0.0	10.5	2.3	1.5	2.1	3.4
29	3.1	57.7	2.5	10.0	2.5	0.8	1.3	2.5
30	3.1	56.2	0.0	5.4	1.9	1.3	1.9	3.1
31	4.2	56.0	0.0	7.3	2.4	1.8	2.6	3.9
MONTH	4.0	58.5	9.5	9.6	2.8	1.3	2.1	3.4
LACK	32	32	29	18	14	32	32	32

TABLE 4.2-12B DISTRIBUTION OF WIND DIRECTION FREQUENCIES (%)

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	11.8	4.5	2.5	1.0	0.4	1.1	0.8	1.1	2.0	1.5	2.2	2.8	5.6	13.6	30.5	13.5	4.9
20M	2.9	4.9	2.5	1.3	0.4	1.4	0.6	2.1	1.3	1.4	2.9	3.5	6.5	15.3	33.3	14.3	5.3
40M	1.1	4.2	3.2	1.1	0.4	0.8	1.4	2.2	1.1	1.5	3.2	3.4	4.5	11.0	30.9	21.6	8.1

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TABLE 4.2-12C HOURLY AVERAGES AND STANDARD DEVIATIONS

TIME(HR)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WIND SPD																								
H=																								
10M																								
MEAN	1.3	1.1	1.1	1.1	1.1	0.9	0.9	1.1	1.1	1.3	1.6	1.8	1.8	1.9	1.9	1.5	1.2	1.4	1.4	1.1	1.2	1.3	1.1	1.1
SIGM	0.8	0.5	0.5	0.6	0.5	0.4	0.9	0.8	0.8	1.1	1.0	0.9	0.8	0.9	1.0	1.0	1.3	1.2	1.2	1.0	0.8	0.8	0.6	0.6
20M																								
MEAN	2.1	2.0	2.0	2.0	1.9	1.9	1.9	1.7	1.7	1.9	2.2	2.5	2.5	2.6	2.5	2.2	1.9	2.3	2.2	1.8	2.0	2.0	1.8	1.9
SIGM	0.8	0.7	0.6	0.8	0.7	0.7	1.7	1.2	1.3	1.5	1.4	1.2	1.1	1.1	1.0	1.1	1.5	1.4	1.4	1.2	1.1	0.9	0.8	0.8
40M																								
MEAN	3.6	3.4	3.4	3.7	3.4	3.1	3.5	2.9	2.5	2.6	3.1	3.3	3.5	3.8	3.8	3.5	3.4	3.9	3.5	3.2	3.4	3.7	3.4	3.6
SIGM	1.5	1.2	1.0	1.2	1.0	1.0	2.2	1.4	1.6	1.8	1.9	1.8	1.7	1.7	2.0	2.1	2.3	1.9	1.8	1.8	1.5	1.7	1.3	0.9
TEMPERA-																								
TURE																								
MEAN	1.4	1.0	0.6	0.4	0.2	-0.0	-0.2	1.5	4.2	6.7	8.2	9.2	9.7	9.7	9.3	8.0	6.2	5.3	4.1	3.1	2.6	2.2	1.8	1.4
SIGM	2.8	2.7	2.5	2.6	2.6	2.6	2.6	2.5	2.4	2.5	2.8	2.8	2.6	2.4	2.3	2.3	2.1	2.4	2.1	2.3	2.5	2.5	2.6	2.5
HUMIDITY																								
MEAN	68.0	69.1	70.7	69.8	70.0	69.9	71.2	67.8	59.9	50.9	43.7	41.6	41.6	40.4	41.2	45.6	51.0	53.1	55.9	60.6	63.0	63.4	64.9	66.0
SIGM	14.0	13.4	12.2	11.9	10.9	11.0	10.0	11.7	11.2	12.5	13.8	13.0	13.4	13.4	14.0	14.3	14.9	13.2	14.9	13.2	12.9	13.5	12.8	14.1
LAPSE																								
RATE																								
MEAN	4.2	4.6	5.2	4.7	5.7	5.8	6.4	0.5	-1.1	-2.0	-2.2	-2.4	-2.1	-1.7	-0.7	0.7	3.7	3.7	4.2	4.9	4.5	4.4	4.5	3.8
SIGM	4.0	4.1	4.3	4.5	4.5	4.5	4.6	1.7	2.3	1.5	0.7	0.7	0.6	0.4	0.5	1.4	3.7	4.2	4.5	4.8	4.4	4.4	4.1	4.0
STABIL.																								
RATIO																								
MEAN	1.0	2.0	3.5	2.9	3.5	2.9	****	0.1	-1.1	-1.0	-1.0	-0.9	-0.7	-0.4	-0.3	0.2	1.4	0.4	1.1	2.3	1.6	1.5	1.5	2.8
SIGM	1.3	2.1	4.1	3.2	3.3	3.0	****	1.0	1.1	0.8	0.7	0.7	0.5	0.3	0.2	0.4	2.5	1.0	1.8	3.2	2.6	2.2	2.0	4.1
RADIA-																								
TION																								
MEAN	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	1.0	1.4	1.6	1.6	1.5	1.1	0.6	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
SIGM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.4	0.4	0.5	0.5	0.4	0.4	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TABLE 4.2-12D FREQUENCY DISTRIBUTIONS OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A-B	83	2	1	1	1	5	3	4	1	1	3	5	9	17	16	10	4	0
B	90	6	5	3	0	1	3	3	7	2	3	1	5	11	19	12	9	0
B-C	6	0	1	0	0	0	0	0	0	0	0	0	0	0	3	2	0	0
C	18	3	1	0	0	0	0	1	1	1	0	1	1	0	4	4	1	0
C-D	4	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0
D1	60	4	3	2	2	0	0	2	4	4	4	3	2	2	14	10	4	0
D2	68	4	6	2	1	2	0	0	0	1	1	0	4	10	20	13	4	0
E	14	4	1	0	0	0	0	0	0	0	0	0	0	0	5	4	0	0
F	29	3	0	0	0	0	0	0	0	0	0	0	0	0	20	6	0	0
G	340	11	2	0	1	0	0	1	2	6	8	13	29	61	135	48	23	0
LACK	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32

TABLE 4.2-12E FREQUENCY DISTRIBUTIONS OF WIND DIRECTION AND SPEED

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
10M																			
-0.4	84																	0	84
0.5-0.9		3	2	0	1	2	1	0	2	6	7	11	20	35	71	39	14	0	214
1.0-1.9		13	1	3	2	4	4	4	7	3	7	8	18	59	97	28	13	0	271
2.0-2.9		9	8	4	0	2	1	4	5	2	2	1	2	1	34	24	7	0	106
3.0-3.9		6	4	0	0	0	0	0	0	0	0	0	0	0	7	4	1	0	22
4.0-4.9		1	3	0	0	0	0	0	0	0	0	0	0	1	7	1	0	0	13
5.0-5.9		0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	2
6.0-6.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7.0-7.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8.0-8.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	32
TOTL	84	32	18	7	3	8	6	8	14	11	16	20	40	97	217	96	35	32	744
20M																			
-0.4	21																	0	21
0.5-0.9		1	2	1	1	1	1	0	2	1	3	3	1	4	22	18	7	0	68
1.0-1.9		8	1	4	1	6	0	2	3	5	10	9	18	30	123	49	20	0	289
2.0-2.9		11	3	1	1	2	3	9	2	3	5	11	20	58	51	24	9	0	213
3.0-3.9		8	7	3	0	1	0	4	2	1	3	0	6	12	25	9	2	0	83
4.0-4.9		5	2	0	0	0	0	0	0	0	0	2	1	1	9	2	0	0	22
5.0-5.9		2	3	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	8
6.0-6.9		0	0	0	0	0	0	0	0	0	0	0	0	1	4	0	0	0	5
7.0-7.9		0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
8.0-8.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	32
TOTL	21	35	18	9	3	10	4	15	9	10	21	25	46	109	237	102	38	32	744
40M																			
-0.4	8																	0	8
0.5-0.9		3	1	1	0	0	1	0	0	1	0	1	1	2	4	1	3	0	19
1.0-1.9		1	3	1	1	3	4	0	2	2	5	2	7	11	18	11	18	0	89
2.0-2.9		4	2	4	1	1	2	5	5	2	7	12	11	19	53	32	20	0	180
3.0-3.9		9	4	0	0	1	3	7	1	3	7	5	9	26	71	50	11	0	207
4.0-4.9		7	6	2	0	1	0	4	0	2	4	2	2	12	39	28	5	0	114
5.0-5.9		6	2	0	1	0	0	0	0	1	0	1	2	4	18	12	0	0	47
6.0-6.9		0	2	0	0	0	0	0	0	0	0	1	0	0	7	13	1	0	24
7.0-7.9		0	3	0	0	0	0	0	0	0	0	0	0	1	3	4	0	0	11
8.0-8.9		0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	0	2	4	3	0	0	9
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32	32
TOTL	8	30	23	8	3	6	10	16	8	11	23	24	32	78	220	154	58	32	744