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東海研究所気象観測年報(1982年)

１９８５年３月

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日本原子力研究所東海研究所保健物理部
小畑　一一・藪田　　肇・山口　武憲
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（1985年1月29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。
1982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。

JAERI-M 85-020

Report of Meteorological Observations at the Site of Tokai Research Establishment in 1982

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(Received January 29, 1985)

Results of meteorological observations such as wind speeds, wind directions, solar and net radiations, air temperatures at the site of Tokai Research Establishment in 1982 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, Environment

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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40m），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チャート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，1982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. 観測項目の月別欠測回数（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－x B）

c. 時刻別平均と標準偏差（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－x C）

d. 月間風向別大気安定度出現頻度（Table 4.2－x D）

e. 月間風速階級別風向出現頻度（Table 4.2－x E）

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 露点計により得られた露点温度と 1.5 m 高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40m），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チャート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，1982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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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*(注)A）

b. 月間風向出現頻度（Table 4.2－xB）

c. 時刻別平均と標準偏差（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 露点計により得られた露点温度と 1.5 m 高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。

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。

(3) 日射量および放射収支量の単位変更について

世界気象機関（WMO）の決定に基づき，気象庁は1981年1月1日から日射量の単位を変更した。これに伴い「発電用原子炉施設の安全解析に関する気象指針」（以下「気象指針」という）が改訂され，同指針中の日射量，放射収支量の単位が変更となった。この変更は次の2項目からなっている。

① 旧単位で表わされている観測値を新単位で表わすための変更（$cal/cm^2 \cdot h(min) \rightarrow KW/m^2$）

② 旧単位で表わされている観測値の積算量を新単位で表わすための変更（$cal/cm^2 \cdot day \rightarrow MJ/day$）

③ ①の変更に伴う大気安定度分類表の変更

これらの変更に伴い，東海研究所における日射量，放射収支量の観測および統計処理についても1982年以降，「気象指針」に準じて行うこととした。

Table 3.1 Methods of data arrangement

Items	Units	Methods of data arrangement
Wind Direction	16directions	Ten minutes average before every hour
Wind Speed	m/s	
Solar Radiation	KW/m^2	
Net Radiation	〃	
Air Temperature	℃	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 items

Items	Definitions	Units
Calm	Wind Speed $\leq$ 0.4m/s	−
Air Temperature	1.5m above the ground	℃
Temperature Lapse Rate	$\frac{\text{Air Temp.(40m)} - \text{Air Temp.(1.5m)}}{38.5} \times 100$	℃/100m
Stability	See Table 3.3	−
Stability Ratio	Temperature Lapse Rate/〔Wind Speed(10m)〕^{2}	℃/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		
	$S \geq 0.60$	$0.60 > S \geq 0.30$	$0.30 > S \geq 0.15$	$0.15 > S$	$N \geq -0.020$	$-0.020 > N \geq -0.040$	$-0.040 > N$
$u < 2$	A	A − B	B	D	D	G	G
$2 \leq u < 3$	A − B	B	C	D	D	E	F
$3 \leq u < 4$	B	B − C	C	D	D	D	E
$4 \leq u < 6$	C	C − D	D	D	D	D	D
$6 \leq u$	C	D	D	D	D	D	D

4. 統 計 結 果

4.1 年間統計結果

a. 風　　向

各測高とも北西及び北東風が卓越して吹いており，年間を通じてそれぞれ15%程度の出現頻度である。この傾向は例年と同様である。

b. 風　　速

年平均風速は10m高が1.7m／s，20m高が2.4m／s，40m高が3.7m／sであり，例年と比べほとんど差はない。

c. 気　　温

年平均気温は13.5度で例年なみであるが，年間を通してみると，冬期は高めで夏期は低めとなっている。

d. 降 水 量

年総降水量は1256.5mmと例年なみである。冬期及び春期が少雨，夏期及び秋期が多雨である。

e. 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0℃未満の日）	62日
真夏日（日最高気温が30℃以上の日）	5日
夏日（〃　25℃　〃）	48日
降水日数（日積算降水量が0.5mm以上の総日数）	114日
〃（〃　50mm　〃）	4日
〃（〃　100mm　〃）	0日

Table 4.1－1 Occurrence frequencies of lack in month

Elements		Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual(%)
Wind Direction	10m	4	121	30	22	27	0	10	33	10	2	57	7	323(3.7)
	20m	3	122	30	22	27	0	10	33	10	2	57	7	323(3.7)
	40m	3	121	30	22	27	0	10	33	10	2	57	7	322(3.7)
Wind Speed	10m	3	121	30	22	27	0	10	33	10	2	57	7	322(3.7)
	20m	3	121	30	22	27	0	10	33	10	2	57	7	322(3.7)
	40m	3	121	30	22	27	0	10	33	10	2	57	7	322(3.7)
Solar Radiation	5m	2	47	7	12	14	0	9	11	7	2	21	6	138(1.6)
Net Radiation	1.5m	1	74	23	10	13	0	1	22	3	0	36	1	184(2.1)
Air Temperature	1.5m	3	121	30	22	27	0	12	85	10	2	57	7	376(4.3)
Precipitation		0	111	25	18	24	0	29	34	9	0	50	5	305(3.5)
Humidity	1.5m	3	121	30	22	27	1	178	85	15	2	57	9	550(6.3)

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	16.5	8.7	14.4	6.7	3.2	2.6	2.0	3.0	3.5	2.1	3.1	2.1	3.9	8.8	12.6	4.4	2.4
20m	8.3	8.2	15.7	6.8	3.8	2.7	2.0	4.0	2.9	2.2	3.4	2.9	4.6	8.7	15.0	5.6	3.2
40m	2.2	9.4	15.5	6.6	3.6	2.8	3.2	4.6	2.7	3.0	3.5	2.8	4.2	8.4	16.2	7.5	4.0

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Table 4.1－3 Monthly averages

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Elements		Units	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Calm	10m	%	10.4	9.1	15.7	13.5	19.9	18.2	20.0	23.6	17.6	15.2	18.9	16.0	16.5
	20m		4.0	5.6	6.7	6.4	10.6	10.1	11.7	11.8	9.7	6.3	11.2	4.9	8.3
	40m		0.5	1.6	1.0	2.0	3.1	3.2	5.6	2.7	1.8	1.2	2.6	1.1	2.2
Wind Speed	10m	m/s	1.6	1.7	1.7	2.1	1.8	2.1	1.8	1.7	2.0	1.8	1.4	1.3	1.7
	20m		2.2	2.2	2.2	2.9	2.5	2.8	2.4	2.4	2.7	2.5	2.1	1.8	2.4
	40m		3.8	3.8	3.6	4.3	3.7	3.9	3.4	3.6	4.0	3.9	3.4	3.2	3.7
Solar Radiation	5m	MJ/	9.2	11.4	12.8	14.5	17.5	15.8	15.3	14.4	10.4	10.6	6.9	6.3	12.1
Net Radiation	1.5m	m^2·day	2.2	2.4	1.9	1.7	1.4	1.0	1.0	0.9	1.3	1.7	1.6	2.0	1.6
Air Temperature	1.5m	°C	3.7	4.1	7.3	11.7	17.6	18.0	20.4	24.3	20.2	15.7	12.2	6.3	13.5
Precipitation		mm	43.0	25.5	89.0	85.0	127.0	170.0	117.5	160.0	206.5	146.5	68.5	18.0	1256.5
Humidity	1.5m	%	56.3	50.2	62.5	66.2	75.3	81.0	83.1	84.0	80.6	77.1	75.4	70.5	71.9

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 (%)	2.3	9.5	10.4	1.9	3.9	0.9	12.3	28.0	2.4	2.2	26.2

Table 4.1－5 Extreme

JAERI－Tokai
1982

Elements			Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
Wind Speed (m/s)	10m	Max.(*)	10.3	8.6	11.2	16.2	15.0	16.1	11.6	15.6	21.7	22.5	16.1	14.0	22.5
		Date	29 15:40	1 14:50	1 11:40	10 9:00	5 14:40	3 14:25	7 18:30	1 15:05	12 20:10	9 4:55	30 9:10	6 2:40	9/Oct. 4:55
	20m	Max.(*)	15.2	12.0	13.4	16.4	14.1	17.1	10.8	15.5	19.0	21.0	15.9	14.2	21.0
		Date	30 2:30	17 19:40	31 7:45	10 9:05	5 14:40	3 14:15	7 18:15	1 12:35	12 16:00	9 4:55	30 9:15	5 13:25	9/Oct. 4:55
	40m	Max.(*)	17.2	17.6	14.9	19.1	21.8	19.5	12.1	19.5	21.9	23.0	17.5	15.1	23.0
		Date	30 2:30	28 12:45	22 4:05	16 0:20	5 14:40	3 14:15	7 18:30	1 15:05	12 15:15	9 4:00	30 9:15	5 13:25	9/Oct. 4:00
Air Temperature (℃)	Maximum		15.8	17.6	20.0	23.3	29.8	27.5	30.0	33.2	29.6	25.8	21.6	18.8	33.2
	Date		12 15:30	28 12:45	30 13:50	30 9:55	28 12:50	16 12:10	11 15:10	22 14:40	26 13:00	14 12:40	1 12:20	5 14:20	22/Aug. 14:40
	Minimum		−7.0	−7.4	−3.0	−0.8	7.5	12.7	14.0	20.3	13.8	3.2	−1.3	−2.3	−7.4
	Date		31 6:00	8 5:15	3 5:50	5 5:20	16 4:50	16 4:10	3 3:50	6 4:30	30 5:30	26 6:00	28 6:30	31 4:50	8/Feb. 5:15
	Daily mean (max)		11.8	12.3	14.3	18.0	22.4	21.7	24.0	27.2	24.9	19.0	16.6	11.4	27.2
	Date		5	16	16	30	12,28	12	12	22	26	20	1	5	22/Aug.
	Daily mean (mix)		0.1	−1.7	2.9	6.8	13.1	14.7	16.8	21.4	17.6	10.0	0.5	1.7	−1.7
	Date		30	7	8	4	23	2	1	8	30	26	28	7	1/Feb.
Precipitation (mm)	Hourly max.		7.0	3.0	7.5	12.5	15.5	14.5	13.0	17.5	15.5	18.5	6.0	2.5	18.5
	Date		5 5:00	1 11:00	21 9:00	15 19:00	20 16:00	19 22:00	28 24:00	3 20:00	12 16:00	20 3:00	30 9:00	6 2:00	20/Oct. 3:00
	Daily max.		28.0	13.0	35.5	58.5	70.0	34.5	26.5	49.0	67.0	50.5	18.0	9.0	70.0
	Date		5	20	21	15	20	27	26	3	12	20	10	26	20/May.
	Monthly max.		206.5	Sep.											

(*) maximum instantaneous wind speed.

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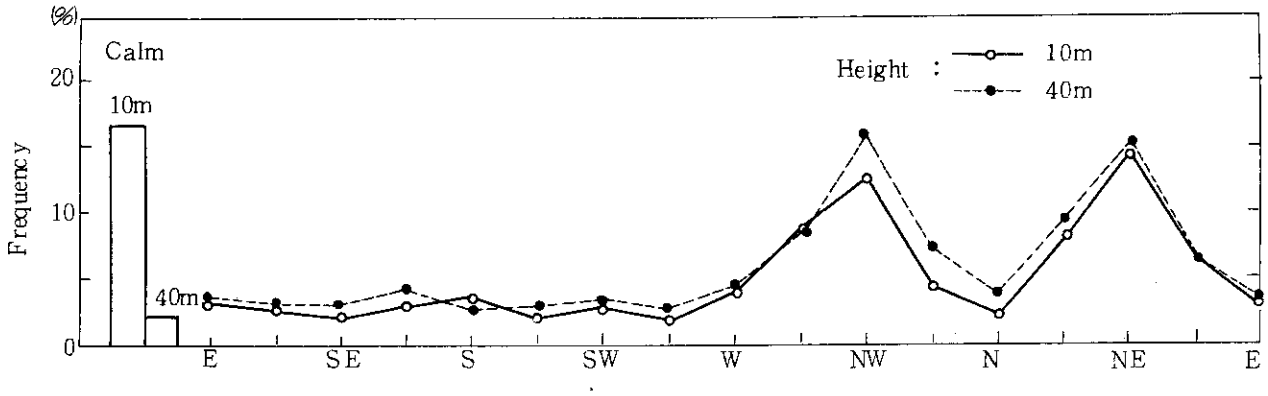

Fig. 4.1－1 Frequency distribution of wind direction

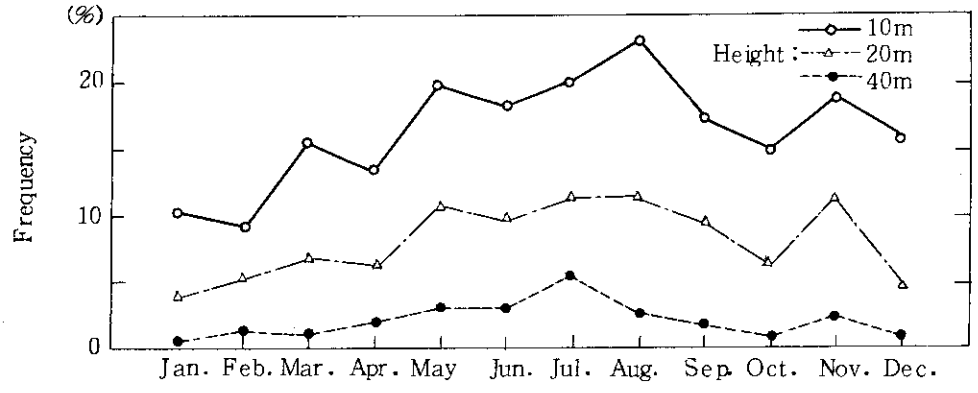

Fig. 4.1－2 Frequency distribution of calm

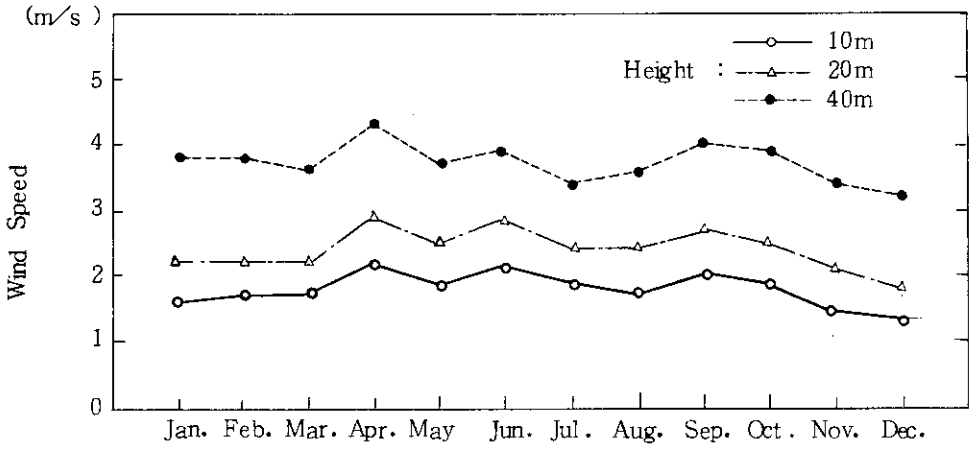

Fig. 4.1－3 Monthly mean wind speed

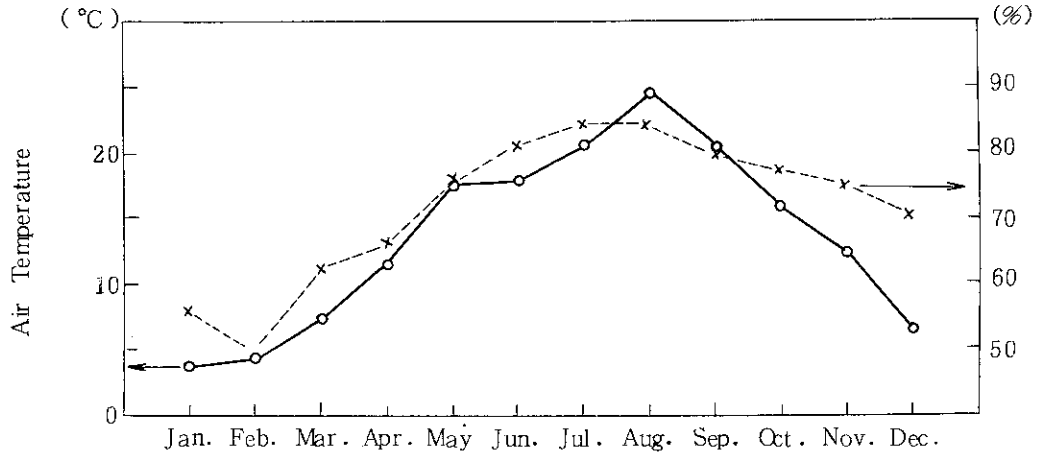

Fig. 4.1-4 Monthly mean of air temperature and humidity

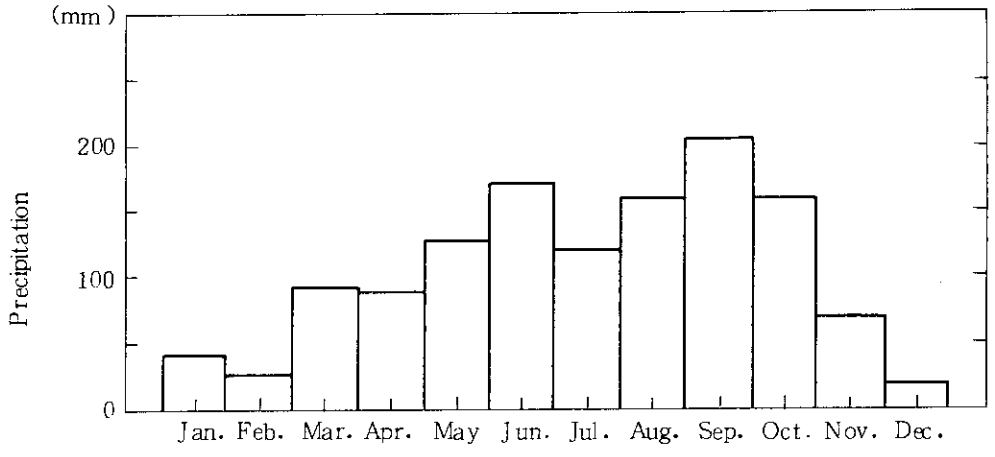

Fig. 4.1-5 Monthly precipitation

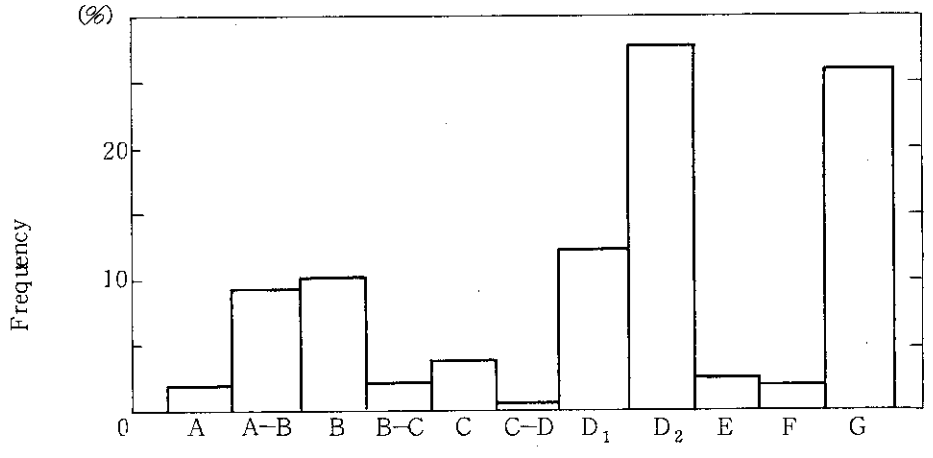

Fig. 4.1-6 Frequency distribution of stability

4.2 月間統計結果

TABLE 4.2- 1A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMIDITY PERCENT	PRECIPITAT. 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	6.5	66.5	0.0	9.5	0.9	0.9	1.3	2.7
2	5.0	62.0	0.0	8.3	2.7	1.6	2.1	3.5
3	2.1	61.0	0.5	10.6	2.5	0.9	1.2	2.7
4	7.8	76.3	12.5	3.7	0.0	1.2	1.8	3.3
5	11.7	67.6	28.0	8.8	0.7	1.5	2.2	4.0
6	5.1	51.5	0.0	7.5	2.2	2.2	2.8	4.0
7	1.6	53.8	0.0	10.3	3.7	2.1	2.6	4.6
8	0.6	51.6	0.0	10.4	2.2	0.9	1.2	2.8
9	3.5	59.5	0.0	10.1	2.9	1.5	2.4	4.1
10	4.4	52.2	0.0	10.6	2.8	1.0	1.7	3.1
11	4.4	60.7	0.0	3.1	1.5	2.3	3.0	4.4
12	7.7	67.3	0.0	7.1	1.0	1.2	2.0	3.4
13	7.2	53.8	0.0	6.8	1.1	1.8	2.2	3.7
14	3.9	53.3	0.0	6.3	2.3	1.1	1.4	2.8
15	3.5	56.8	0.0	9.9	2.2	1.8	2.2	3.7
16	0.9	69.2	0.5	5.1	0.9	2.4	3.0	4.2
17	0.8	49.8	0.0	8.9	3.3	0.8	1.1	2.9
18	1.1	68.1	1.0	6.7	1.2	1.1	1.4	2.6
19	1.9	60.4	0.0	11.1	2.4	1.5	2.4	4.3
20	0.2	45.3	0.0	11.8	3.7	1.2	2.1	3.4
21	1.8	51.0	0.0	11.7	3.2	1.4	2.2	3.6
22	5.9	61.7	0.0	10.9	1.6	1.1	1.7	3.2
23	6.0	55.3	0.0	8.6	2.6	2.2	2.8	5.2
24	3.3	40.7	0.0	10.5	3.0	1.2	2.0	3.3
25	5.3	46.5	0.0	11.8	2.5	2.0	2.7	5.1
26	3.7	59.6	0.0	12.2	2.1	1.9	2.5	3.5
27	4.4	68.5	0.5	4.3	1.8	1.7	2.2	3.4
28	3.0	52.2	0.0	8.2	2.0	1.4	1.7	3.8
29	0.9	42.3	0.0	14.0	3.3	3.5	5.4	7.8
30	0.1	34.7	0.0	12.6	4.0	1.9	2.8	4.4
31	0.6	48.1	0.0	13.3	2.3	1.4	1.8	3.5
MONTH	3.7	56.3	43.0	9.2	2.2	1.6	2.2	3.8
LACK	3	3	0	2	1	3	3	3

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	10.4	13.3	2.7	1.1	1.5	1.6	0.8	1.2	1.5	1.1	2.4	4.3	6.8	13.4	23.9	8.7	5.4
20M	4.0	14.2	2.8	1.5	1.3	1.9	0.7	1.6	0.9	1.5	2.3	4.6	7.6	13.1	24.8	10.7	6.5
40M	0.5	14.3	2.7	1.3	1.6	1.5	1.6	1.3	1.3	1.6	2.3	4.9	8.2	12.3	25.2	11.7	7.4

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	1.4	1.2	1.2	1.1	1.1	1.1	1.2	1.3	1.6	1.8	2.1	2.1	2.3	2.2	2.2	2.0	1.6	1.6	1.5	1.5	1.4	1.4	1.4	1.4
SIGM	0.9	1.1	1.0	0.7	0.8	0.7	0.8	0.9	1.0	1.2	1.0	1.1	1.5	1.1	1.1	1.1	1.3	1.4	1.2	1.2	1.0	0.8	0.7	0.9
20M																								
MEAN	2.0	1.9	1.9	1.7	1.6	1.6	1.7	1.8	2.0	2.5	2.7	2.7	3.0	2.8	2.8	2.6	2.5	2.5	2.2	2.2	1.9	2.0	2.0	2.0
SIGM	1.3	1.4	1.3	0.8	1.0	0.8	1.1	1.3	1.2	1.5	1.3	1.4	2.1	1.5	1.3	1.2	1.8	1.9	1.6	1.7	1.5	1.3	1.1	1.3
40M																								
MEAN	3.8	3.6	3.7	3.6	3.4	3.3	3.5	3.6	3.2	3.3	3.8	3.9	4.2	4.1	4.1	4.1	4.2	4.2	3.8	4.0	3.8	3.8	3.8	3.7
SIGM	1.6	1.7	1.5	1.0	1.2	1.2	1.1	1.6	1.5	1.8	1.8	2.3	3.0	2.6	2.2	1.9	2.3	2.5	1.9	2.0	1.7	1.5	1.3	1.6
TEMPERA-																								
TURE																								
MEAN	2.0	1.3	1.1	0.7	0.4	0.3	0.2	1.3	3.7	5.8	6.9	7.6	8.1	8.1	8.0	7.3	5.8	4.8	3.9	3.2	2.7	2.3	2.0	1.7
SIGM	3.5	3.5	3.7	4.0	4.1	4.1	4.1	3.6	3.0	2.8	3.0	2.9	2.8	2.9	2.7	2.6	2.7	2.8	3.2	3.3	3.3	3.4	3.3	3.5
HUMIDITY																								
MEAN	62.8	64.1	65.1	66.9	68.4	68.6	68.8	65.7	56.9	50.0	45.1	43.1	40.9	40.6	41.8	44.2	49.5	52.6	55.7	57.9	59.2	60.0	61.5	62.1
SIGM	13.6	13.4	13.2	13.3	13.4	13.2	13.3	13.2	15.2	15.3	14.5	15.4	14.9	14.6	15.6	15.9	15.4	15.7	14.7	14.3	14.1	14.0	13.1	12.7
LAPSE																								
RATE																								
MEAN	2.1	3.2	3.1	3.5	2.9	3.5	3.3	1.1	-2.0	-2.5	-2.6	-2.6	-2.3	-2.0	-1.3	-0.6	1.1	1.6	2.3	2.4	2.2	2.0	1.5	2.2
SIGM	3.9	4.1	4.6	4.4	3.7	4.5	4.5	3.1	0.8	0.5	0.6	0.5	0.6	0.3	0.6	0.6	2.6	3.8	4.2	3.8	3.4	3.7	3.3	3.7
STABIL.																								
RATIO																								
MEAN	1.1	1.3	1.2	1.9	0.9	1.8	2.0	0.2	-1.0	-0.8	-0.7	-0.7	-0.7	-0.6	-0.4	-0.1	0.2	-0.1	0.7	1.1	0.7	1.3	0.7	1.4
SIGM	1.5	2.1	2.1	2.7	1.2	3.7	3.1	2.0	0.9	0.8	0.6	0.6	0.6	0.4	0.3	0.3	0.8	0.3	2.3	2.3	1.8	2.6	2.1	2.9
RADIA-																								
TION																								
MEAN	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.4	0.8	1.3	1.5	1.6	1.5	1.2	0.7	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
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	0.5	0.5	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	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
A-B	75	1	0	2	3	3	3	4	1	4	5	10	7	7	14	7	4	0
B	67	1	5	1	1	3	2	2	2	1	4	4	9	6	18	5	3	0
B-C	16	4	2	0	0	0	0	0	0	0	0	1	0	0	5	3	1	0
C	28	8	4	0	0	1	0	1	0	0	2	0	1	3	5	2	1	0
C-D	8	1	0	0	0	0	0	0	0	0	0	0	0	3	3	1	0	0
D1	82	21	2	1	3	2	1	2	5	1	1	2	6	6	18	7	3	1
D2	169	35	6	1	4	2	0	0	2	0	1	4	11	26	48	18	11	0
E	21	8	0	1	0	0	0	0	0	0	0	0	0	4	7	1	0	0
F	19	11	0	0	0	0	0	0	0	0	0	0	0	1	2	3	2	0
G	255	10	2	3	0	1	1	2	7	4	10	14	25	51	82	27	16	0
LACK	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3

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	77																	0	77
0.5-0.9		2	1	2	1	5	0	0	5	1	7	13	19	22	55	21	5	0	159
1.0-1.9		21	4	4	9	4	5	6	5	7	8	18	24	57	84	27	23	0	306
2.0-2.9		42	7	2	1	3	1	3	0	0	3	0	4	6	19	12	10	1	114
3.0-3.9		29	5	0	0	0	0	0	1	0	0	1	1	4	11	3	2	0	57
4.0-4.9		3	2	0	0	0	0	0	0	0	0	0	1	5	5	1	0	0	17
5.0-5.9		1	1	0	0	0	0	0	0	0	0	0	1	3	2	0	0	0	8
6.0-6.9		0	0	0	0	0	0	0	0	0	0	0	0	2	1	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	3	3
TOTL	77	98	20	8	11	12	6	9	11	8	18	32	50	99	177	64	40	4	744
20M																			
-0.4	30																	0	30
0.5-0.9		1	1	1	0	0	0	1	0	3	1	0	6	6	34	27	4	0	85
1.0-1.9		6	1	3	2	6	1	2	5	5	6	13	19	30	91	33	23	0	246
2.0-2.9		42	6	6	8	8	4	9	1	3	9	17	20	40	37	10	12	0	232
3.0-3.9		32	10	0	0	0	0	0	0	0	1	3	4	7	6	6	6	0	75
4.0-4.9		22	1	0	0	0	0	0	1	0	0	0	2	1	9	2	3	0	41
5.0-5.9		1	1	1	0	0	0	0	0	0	0	1	0	2	4	1	0	0	11
6.0-6.9		1	1	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	7
7.0-7.9		0	0	0	0	0	0	0	0	0	0	0	2	4	2	0	0	0	8
8.0-8.9		0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	4
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	1	0	0	0	0	1
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
TOTL	30	105	21	11	10	14	5	12	7	11	17	34	56	97	184	79	48	3	744
40M																			
-0.4	4																	0	4
0.5-0.9		1	0	0	0	0	0	1	0	0	0	1	3	0	1	2	1	0	10
1.0-1.9		1	2	1	2	1	0	0	3	3	4	5	6	15	11	5	8	0	67
2.0-2.9		9	2	3	5	6	8	7	5	2	2	8	12	14	29	22	16	0	150
3.0-3.9		25	8	4	3	2	4	2	0	5	7	14	17	38	69	29	19	0	246
4.0-4.9		43	5	2	2	2	0	0	1	2	4	5	10	13	46	12	3	0	150
5.0-5.9		21	0	0	0	0	0	0	1	0	0	2	4	1	9	7	5	0	50
6.0-6.9		4	1	0	0	0	0	0	0	0	0	0	1	0	7	6	1	0	20
7.0-7.9		2	1	0	0	0	0	0	0	0	0	1	0	1	3	1	2	0	11
8.0-8.9		0	1	0	0	0	0	0	0	0	0	0	0	2	8	1	0	0	12
9.0-9.9		0	0	0	0	0	0	0	0	0	0	0	3	2	2	1	0	0	8
10.0-		0	0	0	0	0	0	0	0	0	0	0	5	5	2	1	0	0	13
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3
TOTL	4	106	20	10	12	11	12	10	10	12	17	36	61	91	187	87	55	3	744

TABLE 4.2- 2A 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	2.5	44.3	3.0	10.3	3.1	1.8	2.5	4.7
2	0.5	41.6	0.0	13.6	3.6	1.3	1.8	3.4
3	1.6	51.4	0.0	10.4	2.9	1.5	1.9	3.6
4	3.2	61.6	0.5	9.5	0.8	1.8	2.3	3.7
5	1.1	55.6	2.0	11.8	2.1	1.1	1.4	2.8
6	0.2	59.0	0.0	11.1	3.5	1.1	1.5	2.9
7	-1.9	44.4	0.0	****	4.0	0.9	1.3	3.4
8	0.4	42.3	0.0	14.0	3.5	1.2	1.4	3.2
9	1.6	40.8	0.0	14.4	3.2	1.5	1.9	4.3
10	3.3	33.3	0.0	12.1	3.9	2.2	2.8	5.5
11	4.9	30.8	0.0	14.6	****	1.3	1.9	3.8
12	7.0	52.4	0.0	8.7	1.3	3.2	3.8	4.9
13	****	****	****	****	****	****	****	****
14	****	****	****	****	****	****	****	****
15	****	****	0.0	16.7	****	****	****	****
16	12.1	41.9	0.0	14.0	****	2.4	3.1	4.0
17	****	****	****	****	0.8	****	****	****
18	5.4	49.3	0.0	16.9	3.0	2.6	3.2	4.4
19	6.7	61.2	1.5	3.6	0.4	1.9	2.3	3.7
20	8.1	89.5	13.0	2.5	0.4	1.1	1.5	2.6
21	7.1	78.7	5.5	4.8	0.7	2.0	2.7	4.3
22	7.2	49.7	0.0	15.6	2.6	1.9	2.4	4.7
23	5.0	44.0	0.0	11.3	2.7	1.1	1.6	3.0
24	3.4	53.4	0.0	4.2	0.8	2.2	2.6	4.0
25	4.1	37.2	0.0	16.2	2.8	2.4	2.9	4.8
26	2.9	33.7	0.0	14.7	3.7	1.6	2.2	3.7
27	4.5	49.1	0.0	13.9	2.3	1.3	1.6	2.8
28	8.0	53.8	0.0	12.3	1.9	1.4	1.9	3.3
MONTH	4.1	50.2	25.5	11.4	2.4	1.7	2.2	3.8
LACK	121	121	111	47	74	121	121	121

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	9.1	11.1	6.7	3.8	1.1	0.9	0.5	0.2	2.5	1.8	3.3	2.7	3.6	13.8	23.4	11.3	4.2
20M	5.6	10.9	7.1	3.7	1.6	0.9	0.5	0.4	2.6	1.5	3.3	3.1	3.4	11.4	24.5	13.1	6.4
40M	1.6	11.6	6.2	4.0	1.3	1.1	0.7	1.5	2.4	2.2	2.9	2.2	2.9	11.6	27.4	14.5	6.0

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	1.3	1.1	1.3	1.4	1.5	1.2	1.3	1.5	1.6	1.8	2.0	2.0	2.1	2.2	2.3	2.5	2.1	1.8	1.9	1.8	1.8	1.5	1.4	1.4
SIGM	0.8	0.7	1.0	0.8	1.0	1.0	1.0	1.1	1.2	0.9	1.0	0.8	0.9	0.8	0.9	0.8	1.2	1.5	1.5	1.5	1.4	1.1	1.1	1.1
20M																								
MEAN	1.7	1.6	1.7	1.9	1.8	1.6	1.7	1.8	1.9	2.2	2.5	2.6	2.7	2.8	3.0	3.1	2.7	2.3	2.6	2.4	2.5	2.2	1.9	1.8
SIGM	1.1	0.9	1.2	1.0	1.2	1.3	1.2	1.3	1.4	1.1	1.2	1.0	1.0	1.0	1.2	1.0	1.3	1.7	1.7	1.7	1.7	1.3	1.4	1.4
40M																								
MEAN	3.7	3.3	3.7	3.7	4.0	3.9	3.7	3.4	2.8	3.4	3.8	3.7	3.8	4.1	4.5	4.6	4.3	3.9	4.4	3.9	3.8	3.9	3.6	3.8
SIGM	1.4	1.3	1.5	1.3	1.3	1.9	1.6	1.7	1.8	1.5	1.8	1.5	1.8	1.5	2.0	1.6	1.9	1.8	1.9	2.0	2.1	1.5	1.6	1.9
TEMPERA-																								
TURE																								
MEAN	0.7	0.5	0.0	-0.4	-0.8	-0.9	-0.7	2.3	5.4	7.6	9.0	9.6	9.9	9.7	9.5	8.5	6.5	5.1	4.2	3.4	2.7	1.9	1.5	1.1
SIGM	3.5	3.5	3.5	3.5	3.6	3.6	3.6	3.4	3.2	3.2	3.3	3.2	3.2	3.0	2.9	2.5	2.6	2.8	3.0	3.4	3.5	3.6	3.6	3.7
HUMIDITY																								
MEAN	59.7	59.3	59.3	61.1	62.7	63.9	63.5	54.0	44.6	37.9	34.3	33.8	32.9	34.1	34.8	40.3	44.0	49.1	50.6	53.8	56.2	59.2	60.4	60.0
SIGM	15.0	15.6	14.7	14.3	13.9	13.3	13.2	15.1	16.0	16.2	17.2	18.5	18.8	19.2	19.6	18.7	18.4	17.5	17.5	17.2	16.4	16.0	15.4	14.3
LAPSE																								
RATE																								
MEAN	2.5	2.4	2.9	2.9	3.2	3.6	3.2	-2.4	-5.4	-6.5	-7.2	-7.2	-6.8	-5.8	-4.8	-2.7	-0.8	0.4	0.7	1.4	1.7	1.8	2.1	2.7
SIGM	3.3	2.8	3.2	3.5	3.4	3.3	4.7	3.9	4.6	4.5	4.4	4.2	3.9	3.7	3.0	1.6	1.0	2.0	2.7	3.0	3.0	2.9	3.1	3.8
STABIL.																								
RATIO																								
MEAN	1.0	****	1.5	1.8	1.7	1.3	1.6	-1.9	-3.0	-2.5	-2.3	-2.3	-2.2	-2.2	-1.4	-0.6	-0.3	0.2	0.0	0.7	0.8	1.0	0.7	1.1
SIGM	2.0	****	2.0	2.3	1.5	1.3	3.5	2.4	3.6	2.7	2.2	2.2	2.4	2.5	2.1	0.6	0.3	0.9	0.7	1.8	1.6	2.0	1.5	2.0
RADIA-																								
TION																								
MEAN	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.6	1.1	1.6	1.9	1.7	1.6	1.2	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	0.6	0.7	0.7	0.7	0.6	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	1	0	1	0	0	2	5	2	1	2	3	0	0	0
A-B	51	0	1	1	2	2	0	0	0	1	2	3	3	7	17	10	2	0
B	55	2	4	2	1	1	0	1	2	2	2	1	1	4	19	10	3	0
B-C	12	1	2	1	0	0	0	0	0	0	0	0	0	2	1	4	1	0
C	31	3	7	2	1	2	1	0	5	0	1	0	0	0	7	1	1	0
C-D	2	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
D1	37	4	7	10	0	1	0	0	1	1	1	0	0	6	2	2	2	0
D2	117	38	14	1	1	0	0	0	1	0	2	1	3	9	25	16	6	0
E	13	6	0	0	0	0	0	0	1	0	0	0	0	1	5	0	0	0
F	30	5	1	2	0	0	0	0	1	0	0	0	0	9	9	2	1	0
G	186	4	1	2	0	1	1	0	2	7	7	10	20	39	54	26	12	0
LACK	121	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	121

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	50																	0	50
0.5-0.9		0	2	3	1	1	1	0	0	2	4	7	9	24	31	17	8	0	110
1.0-1.9		13	1	3	2	1	1	1	5	7	10	7	11	38	62	29	7	0	198
2.0-2.9		14	15	6	3	3	1	0	5	1	4	1	0	12	26	11	6	0	108
3.0-3.9		21	14	9	0	0	0	0	3	0	0	0	0	2	10	5	2	0	66
4.0-4.9		10	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	13
5.0-5.9		2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
6.0-6.9		1	0	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	121	121
TOTL	50	61	37	21	6	5	3	1	14	10	18	15	20	76	129	62	23	121	672
20M																			
-0.4	31																	0	31
0.5-0.9		3	0	0	2	0	0	0	0	1	0	0	0	7	27	20	8	0	68
1.0-1.9		6	5	1	3	1	2	1	2	1	10	8	8	30	56	26	12	0	172
2.0-2.9		10	5	4	3	4	0	1	5	6	5	7	10	17	35	14	8	0	134
3.0-3.9		15	15	6	1	0	1	0	3	0	2	2	1	5	12	10	7	0	80
4.0-4.9		14	10	9	0	0	0	0	4	0	1	0	0	3	5	2	0	1	49
5.0-5.9		8	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	10
6.0-6.9		3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
7.0-7.9		1	1	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	121	121
TOTL	31	60	39	20	9	5	3	2	14	8	18	17	19	63	135	72	35	122	672
40M																			
-0.4	9																	0	9
0.5-0.9		0	0	0	1	0	0	0	1	1	0	0	0	2	2	1	1	0	9
1.0-1.9		2	4	0	1	1	0	0	1	0	2	0	1	9	11	9	7	0	48
2.0-2.9		6	1	2	1	1	2	1	2	4	6	4	5	15	34	17	4	0	105
3.0-3.9		7	9	8	2	2	2	4	5	5	6	3	7	20	36	22	13	0	151
4.0-4.9		15	8	3	1	2	0	1	2	2	1	5	2	9	30	14	3	0	98
5.0-5.9		15	9	5	1	0	0	2	2	0	1	0	1	5	20	7	4	0	72
6.0-6.9		10	2	3	0	0	0	0	0	0	0	0	0	2	10	6	0	0	33
7.0-7.9		3	1	1	0	0	0	0	0	0	0	0	0	2	6	0	1	0	14
8.0-8.9		3	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	7
9.0-9.9		3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	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	121	121
TOTL	9	64	34	22	7	6	4	8	13	12	16	12	16	64	151	80	33	121	672

TABLE 4.2- 3A 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	5.7	84.0	23.5	3.4	0.4	2.2	2.8	4.2
2	4.4	65.1	0.5	10.4	1.5	1.1	1.5	3.0
3	3.5	48.0	0.0	15.9	3.2	1.0	1.4	2.9
4	6.1	52.6	0.0	14.4	1.6	1.1	1.5	2.9
5	8.4	86.2	3.5	1.8	0.3	0.8	1.5	2.6
6	7.4	70.6	2.0	2.8	0.5	1.5	2.0	3.6
7	3.8	55.8	0.5	11.7	2.1	1.3	1.6	3.1
8	2.9	55.4	0.0	13.4	1.8	1.3	1.5	3.0
9	5.1	60.0	0.0	17.0	2.6	1.5	1.9	3.3
10	5.5	65.0	0.0	17.7	2.7	1.2	1.6	2.8
11	9.1	70.7	0.0	16.2	2.5	1.9	2.5	3.8
12	10.4	75.1	0.0	11.2	1.7	2.0	2.5	3.5
13	9.9	78.1	4.0	13.3	1.9	3.0	3.8	5.6
14	6.6	58.0	0.0	18.9	2.7	2.3	2.9	4.2
15	11.9	81.2	0.5	2.9	0.2	0.8	1.6	2.8
16	14.3	76.2	8.0	13.2	0.8	1.5	2.2	3.5
17	9.2	56.5	1.0	14.3	****	2.6	3.3	4.7
18	7.3	59.5	0.5	10.9	2.2	1.6	2.1	3.4
19	5.7	49.7	0.0	18.6	2.4	1.2	1.5	2.7
20	7.3	77.8	3.0	3.2	0.8	1.0	1.3	2.4
21	9.7	87.2	35.5	4.6	1.2	1.9	2.6	4.1
22	9.3	59.9	0.0	19.4	3.0	1.5	2.1	3.5
23	8.9	74.6	0.0	13.4	1.7	1.9	2.4	3.7
24	9.1	62.3	0.0	8.4	0.7	1.5	2.0	4.0
25	6.4	29.7	0.0	16.7	2.1	2.6	3.1	6.0
26	4.8	36.7	0.0	18.1	3.2	1.6	2.2	3.9
27	5.3	43.6	0.0	19.5	2.7	1.7	2.1	3.4
28	5.7	42.0	0.0	19.6	2.8	2.9	3.6	4.8
29	5.0	49.4	0.0	19.9	3.1	1.6	2.1	3.3
30	10.6	59.5	0.0	18.0	2.3	1.7	2.5	3.8
31	11.4	76.4	6.5	3.7	1.7	1.6	2.4	4.2
MONTH	7.3	62.5	89.0	12.8	1.9	1.7	2.2	3.6
LACK	30	30	25	7	23	30	30	30

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	15.7	9.1	8.4	3.9	2.7	3.6	3.1	3.9	2.0	3.1	2.0	1.1	2.7	8.0	19.7	7.4	3.6
20M	6.7	8.1	9.5	3.9	3.2	3.2	3.1	4.1	2.0	2.4	2.9	1.8	3.8	8.3	22.1	10.5	4.3
40M	1.0	9.4	8.3	4.6	2.8	2.9	4.9	4.5	1.5	2.9	2.9	1.1	3.5	7.6	25.1	11.2	5.7

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	1.3	1.2	1.5	1.3	1.1	1.2	1.6	1.6	2.0	2.6	2.5	2.4	2.5	2.4	2.2	2.0	1.6	1.4	1.2	1.2	1.1	1.2	1.2
SIGM	1.1	1.1	0.9	1.3	1.0	0.8	0.9	1.4	1.4	1.3	1.3	1.2	1.1	0.8	1.1	1.1	1.0	1.0	1.2	1.2	1.2	1.0	1.2	1.1
20M																								
MEAN	1.9	1.8	1.6	2.1	1.8	1.6	1.6	2.0	2.0	2.5	3.2	3.0	2.9	3.2	3.0	2.9	2.7	2.3	1.9	1.7	1.6	1.6	1.8	1.7
SIGM	1.2	1.3	1.1	1.4	1.1	1.0	1.0	1.8	1.7	1.6	1.7	1.5	1.4	1.0	1.3	1.4	1.3	1.2	1.4	1.4	1.5	1.2	1.4	1.3
40M																								
MEAN	3.5	3.6	3.5	4.2	3.5	3.2	3.0	3.1	3.0	3.5	4.2	3.9	3.9	4.4	4.2	4.3	4.3	4.0	3.5	3.4	3.2	3.2	3.2	3.3
SIGM	1.6	1.6	1.3	1.6	1.4	1.0	1.1	2.1	2.2	2.1	2.0	2.0	1.8	1.4	1.9	1.9	1.7	1.6	1.9	1.9	1.9	1.5	1.7	1.6
TEMPERA-																								
TURE																								
MEAN	4.6	4.4	4.0	4.0	3.7	3.5	4.5	6.5	8.5	9.6	10.3	10.9	10.9	11.0	10.6	10.3	9.7	8.8	7.9	7.2	6.6	5.9	5.4	5.1
SIGM	3.5	3.6	3.8	4.0	4.1	4.1	3.5	3.4	3.0	2.9	2.9	3.0	3.1	3.1	2.8	2.8	2.7	2.8	2.9	3.0	3.0	3.1	3.2	3.3
HUMIDITY																								
MEAN	70.3	70.5	71.6	71.2	72.1	74.7	70.9	64.3	57.3	51.5	50.6	49.3	51.6	51.3	53.1	57.1	57.6	59.4	61.3	63.6	65.9	68.7	69.3	69.7
SIGM	16.3	16.5	15.7	16.7	16.9	15.0	16.8	18.6	20.3	21.5	18.9	20.7	21.1	22.2	21.1	22.3	21.2	19.8	18.8	17.9	17.1	16.7	16.9	17.0
LAPSE																								
RATE																								
MEAN	2.9	2.9	2.7	2.5	2.3	3.1	0.8	-1.6	-2.4	-2.8	-2.9	-3.0	-3.1	-2.9	-2.4	-1.8	-1.0	-0.2	1.0	1.3	1.8	2.4	2.3	2.2
SIGM	3.5	4.0	4.1	4.2	3.4	3.5	2.7	1.3	1.2	1.6	1.0	1.0	1.1	0.8	0.7	0.7	0.7	1.2	2.6	2.6	3.4	3.7	3.4	3.4
STABIL.																								
RATIO																								
MEAN	1.1	1.3	0.4	0.5	0.7	2.5	0.2	-1.0	-0.9	-0.9	-0.8	-0.8	-0.5	-0.6	-0.6	-0.5	-0.3	-0.2	0.3	0.1	0.0	1.0	1.6	1.0
SIGM	1.7	1.9	1.1	1.7	1.6	3.5	2.1	1.0	1.1	1.1	0.8	0.7	0.3	0.4	0.4	0.4	0.3	0.6	0.7	0.6	0.8	2.1	3.0	1.8
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	1.8	1.6	1.0	0.6	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.1
SIGM	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.5	0.8	0.9	0.9	1.0	0.9	0.8	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	18	0	0	0	1	3	3	0	0	0	1	0	1	0	4	3	2	0
A-B	67	1	4	3	5	7	7	8	1	4	2	1	2	2	12	6	2	0
B	71	2	8	11	5	5	3	9	2	3	1	0	2	2	12	5	1	0
B-C	17	1	5	3	0	0	1	4	2	0	0	0	0	0	1	0	0	0
C	21	1	3	2	0	1	2	2	1	1	2	0	0	2	1	2	1	0
C-D	9	2	5	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
D1	69	10	8	2	3	3	0	1	3	4	4	1	3	10	9	6	2	0
D2	184	24	15	2	4	6	1	1	1	1	6	8	8	20	62	21	4	0
E	29	13	8	1	0	0	0	1	1	0	0	0	0	0	5	0	0	0
F	21	9	4	1	0	0	0	0	1	1	0	0	0	0	2	2	1	0
G	208	4	2	4	2	1	7	5	2	11	4	7	12	36	69	27	15	0
LACK	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30

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	112																	0	112
0.5-0.9		3	0	1	1	4	1	0	1	2	3	5	11	22	48	19	6	0	127
1.0-1.9		12	7	7	9	8	11	7	3	15	4	2	8	31	59	25	16	0	224
2.0-2.9		26	12	7	7	13	9	15	2	2	4	1	0	1	16	6	4	0	125
3.0-3.9		15	27	13	2	1	1	6	5	3	2	0	0	1	15	3	0	0	94
4.0-4.9		7	9	0	0	0	0	0	3	0	1	0	0	2	3	0	0	0	25
5.0-5.9		2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
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	30	30
TOTL	112	65	60	28	19	26	22	28	14	22	14	8	19	57	141	53	26	30	744
20M																			
-0.4	48																	0	48
0.5-0.9		1	0	0	1	3	0	1	0	1	0	3	4	9	44	28	5	0	100
1.0-1.9		7	3	6	6	4	4	2	2	8	6	6	17	29	68	25	15	0	208
2.0-2.9		15	11	7	9	12	15	11	1	5	7	2	4	16	23	14	8	0	160
3.0-3.9		21	20	5	7	4	3	12	4	1	4	2	2	1	14	6	3	0	109
4.0-4.9		8	19	9	0	0	0	3	4	1	2	0	0	2	5	2	0	0	55
5.0-5.9		4	7	1	0	0	0	0	2	1	1	0	0	1	3	0	0	0	20
6.0-6.9		1	7	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	10
7.0-7.9		1	1	0	0	0	0	0	0	0	1	0	0	1	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	30	30
TOTL	48	58	68	28	23	23	22	29	14	17	21	13	27	59	158	75	31	30	744
40M																			
-0.4	7																	0	7
0.5-0.9		2	0	1	0	0	1	0	0	0	1	0	1	0	4	2	2	0	14
1.0-1.9		1	0	3	3	3	2	3	2	1	4	4	5	11	30	9	5	0	86
2.0-2.9		6	5	5	4	6	6	2	4	5	5	1	12	24	37	22	16	0	160
3.0-3.9		15	10	7	5	9	15	8	2	3	5	2	5	10	55	24	10	0	185
4.0-4.9		22	11	5	3	2	8	9	2	6	2	0	2	3	27	11	7	0	120
5.0-5.9		10	16	8	5	1	3	6	1	3	3	1	0	1	6	5	1	0	70
6.0-6.9		8	5	4	0	0	0	3	0	0	1	0	0	1	6	4	0	0	32
7.0-7.9		1	5	0	0	0	0	1	0	2	0	0	0	2	7	3	0	0	21
8.0-8.9		2	5	0	0	0	0	0	0	0	0	0	0	1	5	0	0	0	13
9.0-9.9		0	2	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	4
10.0-		0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	2
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
TOTL	7	67	59	33	20	21	35	32	11	21	21	8	25	54	179	80	41	30	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. MJ/SQ(M)/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	8.7	58.1	0.0	21.8	3.0	3.1	4.0	5.3
2	7.7	74.9	0.5	7.0	0.8	1.3	1.6	2.2
3	12.5	68.8	0.5	7.7	0.4	2.1	3.3	5.7
4	6.6	41.9	0.0	11.2	2.0	1.8	2.3	3.4
5	6.9	44.5	0.0	21.3	3.0	2.3	3.0	4.1
6	10.3	58.5	0.0	19.7	2.2	1.9	2.9	4.1
7	12.0	83.8	6.0	6.8	0.7	1.7	2.2	2.9
8	12.1	91.1	10.5	3.3	1.0	1.5	2.1	3.0
9	11.3	80.8	4.5	5.0	1.2	1.9	2.8	4.5
10	9.8	47.1	0.0	15.3	2.6	2.9	4.7	7.1
11	8.4	45.8	0.0	23.7	2.9	1.3	1.9	3.4
12	10.1	61.4	0.0	21.8	2.1	1.8	2.3	3.6
13	13.0	72.5	0.0	6.4	1.1	0.6	0.9	1.6
14	12.5	82.3	2.5	11.1	0.7	2.1	2.7	3.7
15	14.5	89.7	58.5	3.3	0.8	2.5	3.5	5.9
16	15.0	61.0	0.0	22.5	1.8	2.6	3.6	5.6
17	9.2	60.8	2.0	12.7	2.7	1.8	2.5	4.2
18	11.0	40.0	0.0	21.0	3.1	1.3	2.2	4.0
19	11.5	44.8	0.0	22.6	3.0	1.5	2.4	3.7
20	13.9	49.4	0.0	20.6	2.2	2.1	3.2	4.6
21	12.1	64.6	0.0	9.2	1.1	2.6	3.6	4.8
22	****	****	****	****	3.2	****	****	****
23	9.5	68.9	0.0	24.0	2.4	1.9	2.4	3.6
24	13.7	74.8	0.0	16.7	0.8	1.2	1.6	2.6
25	15.3	74.3	0.0	20.8	1.8	2.4	3.3	4.6
26	16.5	71.6	0.0	22.1	2.0	2.1	3.0	4.2
27	12.0	68.0	0.0	19.0	1.7	5.3	6.8	8.9
28	11.2	80.6	0.0	4.5	0.4	3.8	4.8	6.1
29	15.1	80.7	0.0	8.8	0.2	2.2	2.8	3.8
30	18.1	80.8	0.0	13.4	0.4	2.1	3.1	4.5
MONTH	11.7	66.2	85.0	14.5	1.7	2.1	2.9	4.3
LACK	22	22	18	12	10	22	22	22

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	13.5	7.2	17.6	4.2	1.9	1.1	2.0	4.4	9.3	4.4	4.0	3.6	6.7	8.2	5.4	3.7	2.7
20M	6.4	6.0	19.5	3.9	2.0	1.4	2.3	5.9	6.9	5.0	4.2	4.9	6.4	8.7	7.7	4.6	4.2
40M	2.0	6.3	19.8	4.0	1.7	2.1	3.7	8.0	5.4	4.3	5.4	5.0	6.2	8.3	6.9	6.3	4.4

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	1.5	1.6	1.3	1.3	1.2	1.2	1.2	1.7	2.3	2.6	2.7	2.8	3.2	3.1	3.3	3.1	2.9	2.6	2.3	1.9	2.0	1.9	1.6	1.7
SIGM	1.5	1.2	1.1	1.1	1.3	1.4	1.3	1.3	1.4	1.6	1.5	1.4	1.5	1.4	1.6	1.5	1.5	1.5	1.3	1.6	1.7	1.4	1.2	1.5
20M																								
MEAN	2.3	2.4	2.2	2.2	1.9	1.9	1.8	2.4	3.2	3.3	3.6	3.7	4.1	3.9	4.2	3.9	3.6	3.5	3.2	2.7	2.9	2.8	2.4	2.5
SIGM	1.6	1.6	1.4	1.4	1.7	1.9	1.7	1.8	2.0	2.0	2.1	2.0	2.0	1.7	1.9	1.9	1.8	1.9	1.7	1.9	2.0	1.8	1.4	1.8
40M																								
MEAN	4.0	4.0	3.3	3.5	3.3	3.5	2.9	3.3	4.3	4.5	4.8	4.9	5.3	5.1	5.6	5.3	5.2	5.1	4.9	4.4	4.5	4.2	3.8	4.3
SIGM	2.6	2.2	1.6	1.9	2.1	2.2	2.1	2.3	2.7	2.8	2.9	2.7	2.7	2.2	2.3	2.3	2.4	2.4	2.2	2.4	2.6	2.5	1.8	2.9
TEMPERATURE																								
MEAN	8.8	8.6	8.2	8.1	7.6	8.1	9.8	11.8	13.2	14.0	14.6	14.7	15.0	15.1	14.8	14.6	13.9	13.1	12.5	11.7	11.3	10.9	10.3	9.7
SIGM	4.1	4.0	4.3	4.3	4.3	4.1	3.4	3.0	3.3	3.5	3.3	3.3	3.5	3.4	3.1	3.0	3.0	2.9	3.0	3.3	3.6	3.8	3.9	4.1
HUMIDITY																								
MEAN	74.0	74.1	74.6	74.8	76.5	74.2	69.1	62.5	58.1	54.5	55.4	57.6	57.1	58.9	59.8	60.8	62.9	65.4	66.8	68.4	70.2	70.0	71.0	72.5
SIGM	13.2	13.8	14.1	13.9	13.5	15.3	15.9	18.2	19.1	20.9	20.3	20.1	20.7	19.9	19.1	20.6	20.9	18.7	18.8	17.3	15.7	16.3	15.8	13.4
LAPSE RATE																								
MEAN	2.5	2.2	2.6	2.6	2.8	1.5	-1.1	-2.2	-2.8	-3.0	-3.1	-3.3	-3.1	-3.0	-2.6	-2.1	-1.4	-0.7	-0.3	0.4	1.0	1.3	1.9	2.2
SIGM	4.0	3.5	3.9	4.1	4.0	2.8	1.3	1.0	1.2	1.1	1.4	1.3	1.2	0.9	0.9	0.7	0.7	1.2	1.9	2.3	2.8	2.9	3.9	4.0
STABIL. RATIO																								
MEAN	0.7	0.6	1.2	0.9	1.1	0.5	-0.8	-1.0	-0.7	-0.8	-0.7	-0.6	-0.5	-0.5	-0.4	-0.4	-0.3	-0.1	-0.1	0.1	0.2	0.4	1.0	0.8
SIGM	1.5	1.3	1.9	2.0	2.3	1.3	0.8	1.1	0.6	0.7	0.6	0.5	0.5	0.5	0.4	0.4	0.3	0.2	0.2	0.4	0.7	1.4	2.1	1.6
RADIATION																								
MEAN	0.1	0.1	0.1	0.1	0.1	0.0	0.6	1.1	1.5	1.9	1.9	1.8	1.7	1.6	1.3	0.8	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.1
SIGM	0.1	0.1	0.1	0.1	0.1	0.0	0.4	0.6	0.9	1.0	1.0	1.0	1.0	0.9	0.7	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	17	0	0	0	1	0	0	2	0	2	3	5	1	1	0	1	1	0
A-B	58	1	3	5	6	2	4	9	0	1	2	4	6	7	3	3	2	0
B	75	3	11	8	3	4	5	10	6	1	7	2	7	3	4	0	1	0
B-C	11	0	6	0	0	0	0	1	1	0	2	0	1	0	0	0	0	0
C	36	0	15	1	0	0	0	2	9	1	3	0	1	1	3	0	0	0
C-D	16	0	2	2	0	0	0	0	9	1	1	0	1	0	0	0	0	0
D1	105	11	32	4	2	3	5	6	18	4	2	1	0	5	5	4	3	0
D2	171	26	34	7	2	1	2	3	11	12	4	10	10	15	17	12	5	0
E	17	3	8	0	0	0	0	0	1	2	0	0	0	0	0	1	2	0
F	31	0	6	1	0	0	0	0	6	2	2	0	3	9	1	0	1	0
G	161	9	6	6	3	2	1	1	4	7	11	7	27	28	24	14	11	0
LACK	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22

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	94																	0	94
0.5-0.9		3	3	4	3	1	0	1	3	3	4	8	15	12	14	8	4	0	86
1.0-1.9		17	12	11	3	4	7	8	5	12	12	11	24	24	11	8	7	0	176
2.0-2.9		8	35	8	4	2	5	14	21	11	3	6	4	15	9	5	5	0	155
3.0-3.9		9	44	4	2	1	1	5	11	3	6	0	3	1	0	5	3	0	98
4.0-4.9		11	11	2	1	0	0	1	14	2	2	0	1	2	1	0	0	0	48
5.0-5.9		2	7	0	0	0	1	2	11	0	1	0	0	1	2	0	0	0	27
6.0-6.9		0	8	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	10
7.0-7.9		0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
8.0-8.9		0	0	0	0	0	0	0	0	0	0	0	0	1	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	22	22
TOTL	94	50	123	29	13	8	14	31	65	31	28	25	47	57	38	26	19	22	720
20M																			
-0.4	45																	0	45
0.5-0.9		2	1	2	4	1	1	2	0	1	2	2	2	2	16	8	5	0	51
1.0-1.9		9	8	7	4	2	6	6	3	6	8	10	17	19	18	10	12	0	145
2.0-2.9		10	23	8	2	3	5	9	6	11	9	12	12	18	11	5	4	0	148
3.0-3.9		4	33	6	2	3	1	14	10	10	3	1	7	11	5	4	5	0	119
4.0-4.9		8	36	3	0	0	1	5	7	5	1	5	2	5	1	5	2	0	86
5.0-5.9		7	14	1	1	1	0	4	12	2	2	4	3	1	0	0	1	0	53
6.0-6.9		2	5	0	1	0	0	0	10	0	2	0	1	1	1	0	0	0	23
7.0-7.9		0	7	0	0	0	2	1	0	0	1	0	1	1	2	0	0	0	15
8.0-8.9		0	7	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	8
9.0-9.9		0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
10.0-		0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22
TOTL	45	42	136	27	14	10	16	41	48	35	29	34	45	61	54	32	29	22	720
40M																			
-0.4	14																	0	14
0.5-0.9		1	1	2	0	2	1	0	1	2	0	2	1	1	0	0	2	0	16
1.0-1.9		3	5	2	4	7	5	2	1	0	4	2	5	1	6	12	6	0	65
2.0-2.9		8	13	8	2	1	5	2	3	8	13	7	11	17	5	8	7	0	118
3.0-3.9		10	23	6	2	3	7	6	8	3	7	12	9	18	15	10	5	0	144
4.0-4.9		4	28	5	2	0	3	14	7	5	2	3	5	11	9	4	7	0	109
5.0-5.9		5	24	3	0	0	2	11	8	5	2	2	3	3	6	3	1	0	78
6.0-6.9		7	18	1	1	1	0	9	5	4	4	3	6	2	1	1	1	0	64
7.0-7.9		6	6	1	0	0	0	8	5	2	1	3	1	0	2	2	2	0	39
8.0-8.9		0	3	0	0	0	0	4	0	1	3	1	0	0	0	2	0	0	14
9.0-9.9		0	5	0	0	1	0	0	0	0	0	0	1	2	0	1	0	0	10
10.0-		0	12	0	1	0	3	0	0	0	2	0	1	3	4	1	0	0	27
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22
TOTL	14	44	138	28	12	15	26	56	38	30	38	35	43	58	48	44	31	22	720

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TABLE 4.2- 5A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMIDITY PERCENT	PRECIPITAT. 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	18.6	91.4	1.0	7.0	0.2	0.8	1.1	2.2
3	16.1	90.9	12.5	10.5	0.3	2.6	3.4	4.4
4	16.7	80.5	1.0	10.4	0.6	2.3	3.0	4.0
5	15.6	70.3	4.5	20.5	1.6	1.3	1.9	3.3
6	16.9	72.0	0.0	14.7	0.8	1.4	2.1	3.2
7	16.9	86.6	18.5	9.7	1.1	1.2	1.8	2.9
8	18.2	75.4	0.0	22.6	1.8	1.8	2.7	4.1
9	18.8	81.6	0.0	17.9	1.4	0.8	1.2	2.1
10	18.9	77.1	0.0	17.6	1.1	1.2	1.5	2.3
11	18.9	86.5	0.0	18.1	0.6	1.0	1.3	2.0
12	22.3	77.8	0.0	14.7	0.9	0.8	1.5	2.3
13	19.4	75.5	0.0	21.2	1.2	1.9	2.6	3.5
14	17.4	79.0	18.0	4.1	1.1	2.2	3.2	4.5
15	14.1	60.3	0.0	20.4	2.1	1.4	1.8	2.8
16	14.7	66.3	0.0	20.9	2.5	1.6	2.2	3.4
17	16.9	74.8	0.0	23.4	2.2	1.7	2.4	3.6
18	17.9	78.7	0.0	19.4	1.4	1.4	1.8	2.6
19	15.5	72.3	0.0	23.4	1.5	3.8	4.7	6.1
20	14.8	86.3	70.0	3.0	0.7	3.8	4.9	6.5
21	16.3	72.0	0.5	20.8	2.1	1.4	2.0	2.8
22	15.2	59.6	0.0	19.9	2.9	1.5	2.1	3.5
23	13.1	66.3	0.0	25.3	2.8	1.4	1.9	2.8
24	17.3	72.3	0.0	23.4	2.2	1.4	2.1	3.3
25	20.0	70.8	0.0	22.1	1.5	1.8	2.6	3.7
26	19.9	71.0	0.0	22.8	1.7	2.0	3.0	4.5
27	20.1	74.4	0.0	22.8	1.4	1.0	1.5	2.3
28	22.4	70.5	0.0	19.8	1.4	1.5	2.5	3.7
29	20.3	74.7	0.0	21.2	1.5	1.7	2.1	3.0
30	18.4	70.5	0.0	17.6	0.5	2.8	3.7	4.9
31	16.8	76.1	0.0	6.5	0.3	5.2	6.7	8.8
MONTH	17.6	75.3	127.0	17.5	1.4	1.8	2.5	3.7
LACK	27	27	24	14	13	27	27	27

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	4.2	16.2	7.3	3.2	2.8	3.1	8.5	6.1	4.3	4.5	2.6	3.6	5.2	6.6	1.3	0.7
20M	10.6	3.5	18.5	6.3	3.1	3.1	3.1	10.3	5.2	4.5	6.4	3.5	4.5	6.8	7.7	2.2	0.8
40M	3.1	4.9	18.1	5.9	2.9	3.1	4.6	11.4	5.9	6.1	6.8	3.8	2.8	7.1	9.3	2.9	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	1.3	1.3	1.3	1.4	1.4	1.6	1.7	2.2	2.3	2.7	2.7	2.8	2.8	2.5	2.4	2.0	1.8	1.7	1.5	1.4	1.4	1.4
SIGM	1.2	1.2	1.3	1.3	1.3	1.6	1.5	1.3	1.1	1.2	1.0	1.1	1.0	1.0	1.2	1.3	1.4	1.5	1.7	1.6	1.4	1.6	1.4	1.3
20M																								
MEAN	2.1	2.0	2.0	2.0	2.0	1.8	1.9	2.1	2.3	2.7	3.0	3.5	3.4	3.6	3.6	3.1	3.1	2.7	2.7	2.5	2.2	2.1	2.2	2.1
SIGM	1.6	1.5	1.6	1.6	1.7	2.0	1.9	1.7	1.4	1.5	1.3	1.5	1.4	1.2	1.5	1.6	1.7	1.8	2.0	1.9	1.7	2.0	1.7	1.6
40M																								
MEAN	3.3	3.3	3.2	3.6	3.4	3.1	2.8	2.8	2.9	3.5	3.8	4.3	4.3	4.6	4.8	4.3	4.3	4.0	4.0	3.9	3.5	3.4	3.5	3.4
SIGM	1.8	2.0	1.9	1.9	2.0	2.5	2.4	2.1	1.8	2.0	1.7	1.9	1.8	1.7	2.3	2.1	2.2	2.2	2.4	2.2	2.0	2.4	2.1	2.0
TEMPERATURE																								
MEAN	15.4	15.1	14.8	14.7	14.5	15.3	16.8	18.3	19.4	19.9	20.6	20.6	20.7	20.3	20.0	19.6	19.0	18.2	17.4	17.2	16.7	16.4	16.1	15.7
SIGM	3.2	3.3	3.3	3.3	3.3	2.8	2.6	2.8	2.7	2.7	3.1	3.2	3.4	3.0	3.3	3.1	2.8	2.7	2.6	2.6	2.7	2.7	2.8	3.0
HUMIDITY																								
MEAN	83.7	84.4	85.2	84.8	84.3	81.3	76.2	71.1	66.9	62.5	61.0	62.0	63.9	66.6	69.0	71.0	72.8	76.1	79.0	78.8	80.1	81.3	81.6	82.5
SIGM	7.8	7.3	6.1	6.9	8.2	9.8	11.1	12.6	14.1	17.5	15.5	14.7	14.3	13.6	12.0	12.3	12.1	11.6	10.3	12.6	12.0	10.9	9.3	9.5
LAPSE RATE																								
MEAN	1.3	1.6	1.4	1.4	1.2	-0.4	-1.8	-2.1	-2.5	-2.7	-3.1	-3.2	-3.2	-3.1	-2.5	-2.3	-1.7	-0.7	0.5	0.6	1.2	1.0	1.8	1.5
SIGM	2.3	2.6	2.3	2.2	2.3	1.6	0.5	1.1	0.8	0.8	1.0	0.9	1.0	0.9	1.0	0.8	0.6	1.5	2.5	2.6	3.0	2.6	3.2	2.8
STABIL. RATIO																								
MEAN	0.2	0.5	1.0	0.9	1.2	-0.3	-0.7	-1.0	-0.7	-0.7	-0.8	-0.6	-0.6	-0.5	-0.5	-0.5	-0.6	-0.4	-0.1	0.0	0.1	0.2	0.6	0.1
SIGM	0.4	1.1	1.5	1.8	2.4	0.4	0.7	1.0	0.5	0.4	0.7	0.5	0.5	0.3	0.4	0.4	0.6	0.5	0.3	0.4	0.5	0.8	1.8	0.5
RADIATION																								
MEAN	0.1	0.1	0.1	0.1	0.1	0.0	0.8	1.3	1.7	2.0	2.2	2.1	2.1	2.1	1.5	1.1	0.5	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	0.0	0.4	0.7	0.8	0.9	0.9	0.8	0.9	0.7	0.7	0.4	0.2	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	29	0	0	2	6	6	2	4	0	2	4	0	1	1	0	1	0	0
A-B	106	1	3	6	8	8	13	20	8	7	9	7	2	3	8	3	0	0
B	84	0	13	6	5	5	8	19	5	2	5	3	3	6	3	1	0	0
B-C	13	0	4	1	0	0	0	2	4	1	1	0	0	0	0	0	0	0
C	27	0	11	5	0	1	0	5	3	0	1	0	0	0	1	0	0	0
C-D	7	0	2	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
D1	61	6	26	9	1	2	0	5	8	0	0	0	1	0	1	2	0	0
D2	179	16	46	13	3	2	1	6	5	13	7	10	14	12	26	2	3	0
E	24	2	8	2	0	0	0	0	4	1	1	2	1	2	1	0	0	0
F	14	4	2	0	0	0	0	0	3	0	2	1	0	1	1	0	0	0
G	173	6	3	9	8	3	1	12	8	21	10	9	19	30	25	4	5	0
LACK	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27

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	143																	0	143
0.5-0.9		2	4	2	4	3	1	5	1	7	6	6	15	9	16	5	2	0	88
1.0-1.9		5	12	20	14	10	8	16	5	15	10	9	9	22	25	2	3	0	185
2.0-2.9		8	27	13	5	7	12	29	21	6	11	1	2	5	5	1	0	0	153
3.0-3.9		5	32	12	0	0	1	9	8	3	5	3	0	1	1	0	0	0	80
4.0-4.9		6	23	5	0	0	0	2	8	0	0	0	0	0	0	0	0	0	44
5.0-5.9		4	13	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	19
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	27	27
TOTL	143	30	116	52	23	20	22	61	44	31	32	19	26	37	47	9	5	27	744
20M																			
-0.4	76																	0	76
0.5-0.9		0	2	3	0	2	0	2	2	6	8	1	8	8	8	7	1	0	58
1.0-1.9		2	12	7	12	9	6	10	5	9	7	10	16	20	31	6	3	0	165
2.0-2.9		5	17	16	10	10	9	27	9	8	12	8	5	16	14	1	2	0	169
3.0-3.9		6	27	9	0	1	6	22	10	6	10	2	2	3	2	1	0	0	107
4.0-4.9		4	29	5	0	0	1	9	6	2	6	1	1	1	0	0	0	0	65
5.0-5.9		4	21	3	0	0	0	4	4	1	3	3	0	1	0	0	0	0	44
6.0-6.9		3	15	2	0	0	0	0	1	0	0	0	0	0	0	1	0	0	22
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	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	27	27
TOTL	76	25	133	45	22	22	22	74	37	32	46	25	32	49	55	16	6	27	744
40M																			
-0.4	22																	0	22
0.5-0.9		0	2	0	0	0	2	2	2	2	1	1	1	2	3	2	1	0	21
1.0-1.9		1	2	4	9	10	4	4	6	6	10	9	5	14	6	7	3	0	100
2.0-2.9		3	15	12	9	6	9	11	9	11	8	9	9	24	17	5	5	0	162
3.0-3.9		6	18	7	3	6	13	21	6	12	11	4	2	7	26	3	0	0	145
4.0-4.9		7	16	11	0	0	3	19	13	5	8	1	3	1	10	3	0	0	100
5.0-5.9		5	19	3	0	0	2	11	4	5	4	1	0	2	1	0	0	0	57
6.0-6.9		7	24	2	0	0	0	8	2	2	1	1	0	0	2	0	0	0	49
7.0-7.9		0	14	1	0	0	0	5	0	1	5	0	0	1	2	0	0	0	29
8.0-8.9		4	9	1	0	0	0	1	0	0	1	1	0	0	0	0	0	0	17
9.0-9.9		1	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
10.0-		1	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	5
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	27
TOTL	22	35	130	42	21	22	33	82	42	44	49	27	20	51	67	21	9	27	744

TABLE 4.2- 6A 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	17.1	91.4	16.5	4.1	0.5	1.8	2.4	3.4
2	14.6	91.3	0.0	4.8	0.1	3.0	4.0	5.2
3	15.1	92.4	26.5	2.6	0.5	4.2	5.6	7.3
4	16.1	73.1	3.5	6.5	0.7	1.4	2.1	3.0
5	18.5	80.9	0.0	23.0	1.5	1.5	2.3	3.0
6	18.2	72.9	0.0	18.4	1.4	1.8	2.4	3.3
7	19.0	83.2	0.0	10.4	0.8	0.9	1.5	2.4
8	20.3	72.9	0.0	22.6	1.0	1.2	1.7	2.8
9	18.6	79.7	0.0	21.0	1.6	1.7	2.2	3.2
10	17.3	83.2	0.0	23.2	1.3	1.2	1.5	2.2
11	20.7	85.7	0.0	19.1	0.8	1.2	1.7	2.4
12	21.7	69.7	0.0	23.2	1.4	1.3	1.9	2.7
13	20.4	67.0	2.5	17.3	1.1	2.4	3.2	4.3
14	15.6	88.7	29.5	4.4	0.7	2.8	3.8	5.2
15	18.4	68.6	0.0	26.0	1.8	1.3	2.0	3.2
16	20.2	65.1	0.0	21.1	2.1	2.0	3.3	4.6
17	18.6	80.9	0.0	16.5	1.5	1.3	1.9	2.8
18	17.3	85.0	0.0	14.5	0.6	2.6	3.3	4.4
19	19.1	86.2	18.0	20.2	0.6	1.1	1.5	2.2
20	19.6	90.1	2.0	17.4	0.7	0.9	1.3	1.9
21	18.6	90.0	0.0	18.7	0.4	2.6	3.4	4.3
22	17.3	84.3	0.0	23.3	1.6	2.6	3.4	4.5
23	17.3	86.7	4.5	15.1	0.9	1.1	1.4	2.1
24	16.5	91.2	16.5	5.8	1.3	4.9	6.2	8.0
25	18.2	81.4	0.0	11.4	0.5	2.8	3.7	5.0
26	16.9	85.0	6.5	4.4	0.6	3.9	4.9	6.4
27	16.6	78.4	34.5	13.4	1.2	2.7	3.7	6.2
28	17.3	78.3	9.5	24.6	0.7	1.5	2.1	3.0
29	18.2	70.1	0.0	26.0	1.4	1.9	2.6	3.6
30	16.2	77.7	0.0	15.3	1.1	3.0	3.9	5.1
MONTH	18.0	81.0	170.0	15.8	1.0	2.1	2.8	3.9
LACK	0	1	0	0	0	0	0	0

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	18.2	8.6	29.2	9.2	3.1	2.5	2.9	4.0	2.2	0.7	2.5	0.7	2.6	6.3	5.7	0.8	0.8
20M	10.1	7.6	30.6	9.7	3.5	2.6	2.2	5.1	2.5	1.0	2.9	1.5	3.6	7.5	7.2	1.0	1.2
40M	3.2	9.4	31.8	7.4	3.2	1.9	4.3	5.4	1.2	2.4	2.5	1.8	3.9	9.3	8.5	2.1	1.7

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	1.8	1.7	1.5	1.4	1.4	1.4	1.7	2.1	2.1	2.5	2.8	2.9	3.0	2.9	2.9	2.8	2.4	2.1	2.1	1.9	1.9	1.5	1.6	1.6
SIGM	1.4	1.4	1.3	1.3	1.4	1.4	1.4	1.4	1.3	1.4	1.3	1.2	1.1	1.4	1.5	1.4	1.5	1.8	1.8	1.7	1.5	1.4	1.6	1.5
20M																								
MEAN	2.7	2.5	2.3	2.0	2.1	2.0	2.1	2.7	2.7	3.2	3.5	3.7	3.9	3.6	3.7	3.7	3.1	2.8	2.9	2.7	2.7	2.2	2.4	2.4
SIGM	1.7	1.7	1.6	1.6	1.6	1.7	1.7	1.6	1.6	1.8	1.6	1.6	1.5	1.8	2.0	1.8	1.9	2.2	2.2	1.9	1.8	1.7	1.9	1.9
40M																								
MEAN	3.8	3.8	3.5	3.2	3.3	3.1	3.0	3.7	3.6	4.2	4.4	4.7	4.9	4.7	4.8	4.8	4.1	4.0	4.2	3.9	3.9	3.4	3.6	3.6
SIGM	2.0	1.9	1.8	1.9	1.9	2.1	2.4	2.5	2.2	2.5	2.1	2.1	2.0	2.4	2.6	2.4	2.4	2.7	2.5	2.4	2.1	2.1	2.2	2.3
TEMPERA-																								
TURE																								
MEAN	16.7	16.5	16.1	15.9	15.8	16.4	17.4	18.2	18.9	19.4	19.6	19.6	19.7	20.1	19.8	19.6	19.1	18.5	18.0	17.7	17.5	17.5	17.2	16.8
SIGM	1.7	1.8	1.8	1.8	1.8	1.7	2.0	2.4	2.7	2.9	3.1	3.0	2.9	2.9	2.9	2.9	2.6	2.3	2.0	1.8	1.7	1.7	1.7	1.6
HUMIDITY																								
MEAN	88.2	87.8	89.6	89.8	90.2	88.1	84.2	80.0	77.0	72.4	70.9	71.8	71.1	71.4	73.2	73.9	75.7	78.4	81.6	83.3	84.8	85.6	86.8	88.3
SIGM	4.3	4.6	4.2	4.1	4.2	5.6	7.9	11.6	12.6	17.0	17.0	16.3	15.8	16.8	15.4	16.1	14.4	13.4	11.2	9.3	8.8	8.3	7.8	4.5
LAPSE																								
RATE																								
MEAN	0.3	0.1	0.6	0.6	0.2	-1.0	-1.5	-1.8	-2.3	-2.4	-2.6	-2.8	-2.7	-2.5	-2.2	-2.0	-1.6	-1.1	-0.4	0.1	0.3	0.2	0.3	0.3
SIGM	1.8	1.3	2.2	2.2	1.5	0.5	0.5	0.8	0.7	0.8	0.9	1.0	1.1	1.0	0.9	0.8	0.7	0.9	1.8	2.2	2.5	2.0	1.7	1.8
STABIL.																								
RATIO																								
MEAN	0.0	0.3	0.4	0.1	0.0	-0.3	-0.3	-0.4	-0.6	-0.6	-0.6	-0.4	-0.4	-0.5	-0.4	-0.4	-0.4	-0.4	-0.1	-0.1	-0.0	-0.1	-0.0	0.1
SIGM	0.7	0.9	1.3	0.8	0.5	0.3	0.3	0.4	0.7	0.7	0.5	0.3	0.3	0.5	0.5	0.4	0.4	0.6	0.5	0.7	0.7	0.4	0.3	1.0
RADIA-																								
TION																								
MEAN	0.1	0.1	0.1	0.1	0.0	0.0	0.7	1.1	1.5	1.8	1.9	2.0	2.0	1.8	1.4	1.0	0.5	0.2	0.1	0.1	0.1	0.1	0.1	0.1
SIGM	0.1	0.1	0.1	0.0	0.0	0.0	0.5	0.6	0.9	0.9	1.0	1.1	1.1	1.0	0.8	0.6	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TABLE 4.2- 6D FREQUENCY DISTRIBUTIONS OF STABILITY CATEGORY

	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
CATEG																		
A	25	0	1	1	4	6	5	3	0	1	0	0	0	0	3	1	0	0
A-B	78	2	3	14	9	6	10	13	2	2	1	2	4	2	5	3	0	0
B	69	1	12	9	10	7	4	7	5	0	1	1	3	4	5	0	0	0
B-C	22	0	9	3	1	0	0	0	4	0	2	0	0	2	1	0	0	0
C	38	2	23	7	0	0	0	0	1	0	2	0	0	1	2	0	0	0
C-D	5	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
D1	123	10	58	16	4	1	2	6	5	3	6	2	1	3	4	1	1	0
D2	213	40	76	9	1	0	2	4	1	2	3	8	11	15	24	10	7	0
E	16	3	10	0	0	0	0	0	0	0	0	0	0	2	0	0	1	0
F	6	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
G	125	8	14	10	3	2	0	1	3	5	4	4	16	35	16	3	1	0
LACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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	131																	0	131
0.5-0.9		4	3	4	1	3	2	5	1	1	5	2	11	13	12	3	2	0	72
1.0-1.9		12	21	22	13	10	11	11	3	3	4	2	7	24	16	0	0	0	159
2.0-2.9		21	56	21	7	4	8	11	4	0	1	1	1	4	7	2	1	0	149
3.0-3.9		8	68	16	1	1	0	2	8	0	4	0	0	3	4	0	2	0	117
4.0-4.9		3	53	3	0	0	0	0	0	1	2	0	0	1	1	1	1	0	66
5.0-5.9		7	7	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	17
6.0-6.9		7	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
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	131	62	210	66	22	18	21	29	16	5	18	5	19	45	41	6	6	0	720
20M																			
-0.4	73																	0	73
0.5-0.9		3	1	1	3	5	1	0	3	2	3	2	6	7	8	4	2	0	51
1.0-1.9		3	15	9	9	9	5	17	2	2	5	6	14	15	25	1	3	0	140
2.0-2.9		13	27	21	10	4	8	10	4	2	4	2	3	17	9	0	0	0	134
3.0-3.9		12	55	24	2	1	2	7	5	0	1	0	2	9	5	1	2	0	128
4.0-4.9		4	59	11	1	0	0	3	4	0	0	1	1	2	3	0	1	0	90
5.0-5.9		6	44	3	0	0	0	0	0	0	5	0	0	3	2	1	1	0	65
6.0-6.9		5	16	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	24
7.0-7.9		2	2	0	0	0	0	0	0	0	2	0	0	1	0	0	0	0	7
8.0-8.9		7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
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	73	55	220	70	25	19	16	37	18	7	21	11	26	54	52	7	9	0	720
40M																			
-0.4	23																	0	23
0.5-0.9		1	2	1	2	2	2	0	0	2	0	3	3	8	4	2	1	0	33
1.0-1.9		3	8	2	5	8	5	5	2	4	4	5	6	13	13	5	4	0	92
2.0-2.9		5	21	9	12	3	12	12	4	3	4	1	9	22	21	3	2	0	143
3.0-3.9		11	25	13	3	1	8	7	2	1	6	2	4	9	6	2	0	0	100
4.0-4.9		17	49	13	1	0	4	9	1	2	0	1	3	6	5	0	1	0	112
5.0-5.9		8	48	11	0	0	0	6	0	0	0	0	3	5	3	2	1	0	87
6.0-6.9		8	37	1	0	0	0	0	0	0	0	1	0	2	2	0	1	0	52
7.0-7.9		2	24	3	0	0	0	0	0	2	3	0	0	1	4	0	1	0	40
8.0-8.9		5	11	0	0	0	0	0	0	1	0	0	0	1	1	0	1	0	20
9.0-9.9		1	3	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	6
10.0-		7	1	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	12
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTL	23	68	229	53	23	14	31	39	9	17	18	13	28	67	61	15	12	0	720

TABLE 4.2- 7A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMIDITY PERCENT	PRECIPITAT. 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	16.8	****	****	24.0	1.6	2.9	3.7	4.8
2	17.2	****	0.0	21.9	1.1	2.1	2.8	3.6
3	17.7	****	0.0	24.9	2.3	2.7	3.5	4.7
4	17.6	****	2.5	10.4	1.2	2.4	3.1	4.2
5	20.0	****	0.0	22.8	1.3	1.1	1.6	2.4
6	21.0	****	0.0	15.0	1.1	1.2	2.2	3.6
7	19.4	****	13.0	6.2	0.7	2.0	2.9	4.1
8	19.0	78.7	0.0	21.6	1.0	1.6	2.1	2.9
9	21.2	74.9	0.0	19.7	1.4	1.5	2.4	3.5
10	21.9	82.0	0.0	22.2	1.2	1.0	1.4	2.2
11	23.5	78.3	0.0	17.8	1.0	1.6	2.6	3.9
12	24.0	81.0	0.0	14.5	1.1	1.2	1.8	2.7
13	21.4	71.8	0.0	13.1	1.5	0.7	1.2	2.1
14	21.1	70.3	0.0	20.8	1.4	1.6	2.3	3.4
15	19.6	80.2	0.0	21.1	1.3	3.0	4.0	5.3
16	19.3	81.1	0.0	14.0	0.9	1.3	1.7	2.3
17	19.3	90.4	23.5	****	0.3	1.0	1.5	2.4
18	22.3	83.4	0.0	19.5	0.6	0.8	1.3	2.0
19	20.6	88.0	2.5	5.7	0.7	1.2	1.7	2.5
20	20.4	87.9	1.5	11.7	0.4	1.3	1.8	2.5
21	20.0	86.3	0.0	3.9	0.5	1.2	1.6	2.3
22	20.5	84.0	0.5	20.9	1.2	1.6	2.1	2.9
23	20.4	84.4	0.0	19.6	1.2	1.2	1.6	2.1
24	21.6	83.1	0.5	19.2	0.9	1.7	2.3	3.0
25	20.5	87.1	15.0	7.7	0.4	2.4	3.1	4.3
26	20.0	90.6	26.5	3.7	0.3	3.0	3.9	5.2
27	20.2	84.8	2.0	17.3	0.8	4.0	5.2	6.7
28	20.4	86.0	13.0	15.7	0.6	2.0	2.6	3.3
29	20.8	87.1	10.5	12.2	0.8	1.4	1.8	2.4
30	21.6	86.9	4.0	8.1	0.6	0.7	1.0	1.8
31	21.7	88.8	2.5	10.3	0.2	2.5	3.3	4.5
MONTH	20.4	83.1	117.5	15.3	1.0	1.8	2.4	3.4
LACK	12	178	29	9	1	10	10	10

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	20.0	8.9	28.5	11.9	4.9	4.2	1.5	4.0	3.3	1.8	3.5	1.0	0.8	2.0	1.4	0.7	1.8
20M	11.7	7.8	29.7	13.8	6.0	3.0	2.5	4.6	3.1	1.2	4.2	2.2	2.6	3.1	1.8	0.5	2.2
40M	5.6	11.7	29.4	12.0	5.7	3.0	3.1	6.3	2.2	2.9	3.4	2.3	2.7	3.0	3.4	1.0	2.3

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	1.1	1.1	1.0	1.0	0.9	1.2	1.4	1.8	2.0	2.2	2.3	2.6	2.5	2.5	2.5	2.5	2.4	2.1	1.7	1.8	1.6	1.5	1.5	1.2
SIGM	1.2	1.1	0.9	1.1	1.0	1.3	1.1	1.2	1.1	1.3	1.1	1.1	0.9	1.2	1.1	1.2	1.3	1.3	1.4	1.3	1.2	1.2	1.2	1.1
20M																								
MEAN	1.7	1.8	1.6	1.5	1.5	1.7	2.0	2.4	2.5	2.7	2.9	3.2	3.2	3.2	3.1	3.2	3.2	2.9	2.4	2.6	2.3	2.2	2.2	1.8
SIGM	1.4	1.4	1.2	1.4	1.2	1.6	1.3	1.4	1.3	1.6	1.3	1.4	1.2	1.5	1.4	1.6	1.7	1.6	1.8	1.5	1.3	1.4	1.5	1.3
40M																								
MEAN	2.8	2.9	2.7	2.4	2.6	2.5	2.7	3.1	3.2	3.5	3.6	4.0	4.1	4.2	4.1	4.3	4.2	4.0	3.5	3.7	3.4	3.2	3.2	2.8
SIGM	1.6	1.7	1.3	1.7	1.5	1.9	1.7	1.7	1.7	2.0	1.8	1.8	1.6	1.9	1.8	2.1	2.1	1.9	2.2	1.9	1.5	1.6	1.9	1.6
TEMPERATURE																								
MEAN	19.3	19.2	19.1	18.8	18.8	19.3	20.2	20.7	21.3	21.5	21.8	22.1	21.8	21.6	21.5	21.2	20.8	20.5	20.2	20.1	20.0	20.0	19.8	19.7
SIGM	1.7	1.8	1.8	2.0	2.0	1.9	1.7	1.8	2.1	2.1	2.0	2.0	2.0	2.3	2.0	2.1	2.2	2.0	1.9	1.9	1.7	1.6	1.5	1.6
HUMIDITY																								
MEAN	86.3	87.2	87.6	88.1	88.3	86.4	83.8	82.2	79.5	78.4	77.3	75.8	77.6	78.2	78.5	79.7	80.8	82.9	84.7	84.8	85.8	86.3	86.0	87.2
SIGM	4.6	4.0	3.6	3.4	2.7	5.0	7.4	9.1	10.1	9.5	9.4	9.1	7.8	8.5	7.8	8.1	7.0	7.1	5.7	5.2	4.4	4.0	4.1	4.7
LAPSE RATE																								
MEAN	-0.8	-0.6	-0.7	-0.5	-0.7	-1.3	-2.0	-2.3	-2.6	-2.9	-3.2	-3.4	-3.2	-3.1	-2.9	-2.7	-2.5	-1.8	-1.4	-1.3	-1.1	-1.1	-0.8	-0.8
SIGM	1.5	1.3	1.3	1.4	1.2	0.7	0.5	0.6	0.7	0.7	0.7	0.7	0.8	0.7	0.7	0.6	0.5	0.9	2.0	1.5	1.1	1.2	1.6	1.5
STABIL. RATIO																								
MEAN	-0.4	-0.4	-0.5	-0.1	-0.4	-0.4	-0.6	-0.5	-0.7	-0.7	-0.7	-0.9	-0.7	-0.7	-0.8	-0.7	-0.7	-0.5	-0.7	-0.3	-0.4	-0.3	-0.3	-0.4
SIGM	0.5	0.3	0.6	0.9	0.7	0.3	0.5	0.4	0.5	0.7	0.6	0.9	0.6	0.6	0.8	0.8	0.8	0.6	0.5	0.7	0.4	0.7	0.4	0.5
RADIATION																								
MEAN	0.1	0.1	0.1	0.1	0.0	0.0	0.7	1.0	1.4	1.8	2.0	2.1	1.8	1.6	1.4	0.9	0.5	0.0	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	0.4	0.7	0.8	0.9	1.0	1.0	1.0	0.9	0.7	0.5	0.3	0.0	0.1	0.1	0.1	0.1	0.1	0.1

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	15	0	0	1	2	4	1	3	0	0	3	0	0	0	0	1	0	0
A-B	76	0	9	11	4	19	10	8	4	0	4	2	2	3	0	0	0	0
B	93	1	26	14	15	7	4	11	5	2	1	2	0	2	0	1	2	0
B-C	18	1	13	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0
C	50	3	33	7	1	0	0	0	4	1	1	0	0	0	0	0	0	0
C-D	8	2	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
D1	72	6	33	12	3	5	1	4	2	2	2	2	0	0	0	0	0	0
D2	250	42	67	34	15	6	2	6	7	9	13	5	7	10	17	3	7	0
E	18	3	11	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0
F	11	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
G	123	9	13	18	8	1	1	2	2	8	8	8	14	12	8	3	8	0
LACK	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10

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	147																	0	147
0.5-0.9		4	2	15	13	6	3	4	0	2	3	4	4	10	5	4	4	0	83
1.0-1.9		18	42	38	18	16	5	13	7	7	14	3	2	4	5	1	5	0	198
2.0-2.9		18	75	22	5	9	3	11	11	4	5	0	0	1	0	0	4	0	168
3.0-3.9		12	61	11	0	0	0	1	6	0	3	0	0	0	0	0	0	0	94
4.0-4.9		11	25	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	38
5.0-5.9		1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
6.0-6.9		1	0	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	10	10
TOTL	147	65	209	87	36	31	11	29	24	13	26	7	6	15	10	5	13	10	744
20M																			
-0.4	86																	0	86
0.5-0.9		2	1	10	7	4	5	4	1	0	4	5	4	1	3	1	4	0	56
1.0-1.9		11	14	33	18	12	6	6	5	1	5	6	11	15	8	3	6	0	160
2.0-2.9		15	54	28	16	6	6	14	10	5	12	3	4	6	2	0	2	0	183
3.0-3.9		11	63	18	3	0	1	10	5	2	4	1	0	1	0	0	3	0	122
4.0-4.9		7	55	10	0	0	0	0	2	1	4	1	0	0	0	0	1	0	81
5.0-5.9		9	24	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	36
6.0-6.9		0	5	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	6
7.0-7.9		2	2	0	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	10	10
TOTL	86	57	218	101	44	22	18	34	23	9	31	16	19	23	13	4	16	10	744
40M																			
-0.4	41																	0	41
0.5-0.9		3	1	5	2	3	1	2	1	2	1	1	1	0	1	0	1	0	25
1.0-1.9		7	5	16	12	11	7	6	4	2	2	5	4	7	6	4	6	0	104
2.0-2.9		9	27	28	18	6	8	7	5	2	6	8	11	9	10	3	3	0	160
3.0-3.9		12	44	23	9	2	5	14	3	6	5	3	4	6	5	0	3	0	144
4.0-4.9		22	54	9	1	0	2	13	3	5	5	0	0	0	3	0	3	0	120
5.0-5.9		12	49	5	0	0	0	3	0	3	1	0	0	0	0	0	1	0	74
6.0-6.9		15	18	2	0	0	0	1	0	1	3	0	0	0	0	0	0	0	40
7.0-7.9		3	12	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	16
8.0-8.9		2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
9.0-9.9		1	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4
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	10	10
TOTL	41	86	216	88	42	22	23	46	16	21	25	17	20	22	25	7	17	10	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	21.9	90.4	9.5	4.0	0.4	3.1	4.3	6.4
2	26.4	71.0	4.0	18.9	1.0	5.3	7.5	10.6
3	24.2	89.9	49.0	3.5	0.5	3.1	4.5	6.5
4	24.2	82.5	0.0	13.2	0.7	1.2	1.8	2.9
5	24.1	71.5	0.0	20.9	1.1	0.8	1.2	2.1
6	23.1	79.0	0.0	20.5	1.5	1.2	1.7	2.5
7	22.2	85.8	0.5	10.7	0.8	1.9	2.6	3.5
8	****	****	****	****	****	****	****	****
9	22.8	86.5	0.0	12.0	0.9	1.0	1.5	2.2
10	24.9	81.1	0.0	19.1	1.2	0.9	1.6	2.6
11	24.3	80.1	0.0	20.3	1.0	2.0	2.9	3.9
12	21.5	88.3	0.0	13.3	0.3	3.7	4.8	6.3
13	22.3	83.5	0.0	16.2	0.8	1.6	2.0	2.7
14	25.1	80.3	0.0	18.7	0.8	1.1	2.1	3.0
15	23.8	88.9	11.5	4.5	0.8	0.7	1.5	2.7
16	23.8	82.9	0.5	9.5	0.5	0.7	1.5	2.4
17	23.5	88.7	12.0	10.3	0.4	1.5	2.2	3.5
18	24.5	88.6	1.5	17.1	0.7	1.1	1.6	2.5
19	24.7	86.3	0.0	16.1	1.2	0.7	1.1	1.8
20	25.5	84.3	0.0	15.6	1.0	0.7	1.2	2.1
21	25.4	85.1	0.0	14.9	1.2	0.8	1.2	2.1
22	27.2	78.5	0.0	14.8	1.2	0.8	1.5	2.5
23	24.7	79.9	0.0	20.5	1.4	2.1	2.9	4.0
24	26.2	77.7	0.0	18.1	1.2	1.6	2.4	3.4
25	24.8	88.2	0.0	15.8	0.9	1.7	2.3	3.1
26	****	****	40.0	6.6	0.4	3.1	4.0	5.3
27	****	****	24.0	18.1	0.5	1.9	2.8	4.3
28	25.1	87.4	0.0	19.8	1.1	2.7	3.6	5.2
29	25.2	89.3	0.0	20.2	1.0	1.3	1.9	3.0
30	24.4	89.6	1.5	6.8	0.6	1.0	1.6	2.5
31	24.5	87.2	0.0	18.0	1.5	1.1	1.6	2.2
MONTH	24.3	84.0	160.0	14.4	0.9	1.7	2.4	3.6
LACK	85	85	34	11	22	33	33	33

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	23.6	1.7	17.4	11.8	5.3	5.1	4.5	4.9	8.6	3.9	4.4	2.4	2.0	2.7	1.3	0.1	0.3
20M	11.8	1.7	18.4	10.7	7.7	6.2	4.1	8.6	6.9	4.6	5.2	3.0	4.1	3.8	2.8	0.1	0.3
40M	2.7	2.5	18.8	10.0	7.5	6.5	6.9	9.3	6.6	7.2	5.3	3.2	4.2	4.6	3.5	1.0	0.1

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	1.3	1.2	1.1	1.2	1.2	1.2	1.6	1.4	1.8	2.0	2.0	2.2	2.5	2.5	2.6	2.4	2.0	1.8	1.6	1.4	1.3	1.2	1.2	1.3
SIGM	1.3	1.3	1.3	1.4	1.5	1.6	1.5	1.3	1.1	1.1	1.1	1.2	1.3	1.2	1.2	1.3	1.3	1.5	1.3	1.4	1.4	1.4	1.4	1.5
20M																								
MEAN	2.1	2.0	1.9	2.0	1.9	1.9	2.3	2.0	2.4	2.7	2.7	3.0	3.3	3.3	3.4	3.2	2.7	2.6	2.4	2.1	2.1	2.0	2.1	2.1
SIGM	1.8	1.7	1.7	1.7	1.8	2.1	2.0	1.8	1.4	1.3	1.4	1.6	1.9	1.6	1.7	1.8	1.8	1.8	1.5	1.9	1.9	1.8	1.7	2.0
40M																								
MEAN	3.2	3.2	3.2	3.2	3.1	3.1	3.1	2.9	3.4	3.5	3.5	3.9	4.4	4.3	4.5	4.4	3.9	4.1	3.6	3.6	3.5	3.3	3.4	3.3
SIGM	2.5	2.4	2.4	2.5	2.2	2.4	2.3	2.3	2.0	1.8	1.9	2.3	2.6	2.2	2.3	2.5	2.2	2.2	1.8	2.3	2.6	2.5	2.2	2.6
TEMPERA-																								
TURE																								
MEAN	23.0	22.9	22.7	22.6	22.5	22.8	23.5	24.3	25.1	25.2	25.9	26.4	26.4	26.2	25.9	25.8	25.3	24.6	24.1	23.9	23.8	23.5	23.4	23.1
SIGM	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.6	2.0	2.0	2.2	2.3	2.8	2.6	2.6	2.2	2.1	1.7	1.7	1.5	1.4	1.3	1.2	1.2
HUMIDITY																								
MEAN	88.6	89.4	89.3	89.6	89.7	89.3	86.7	84.3	81.3	78.0	78.8	77.2	76.4	77.0	77.7	78.0	79.6	82.9	85.0	86.5	86.9	87.4	88.3	88.9
SIGM	2.4	2.9	3.2	3.1	2.9	3.3	5.3	7.4	8.9	18.0	9.8	10.2	11.4	9.5	9.8	8.9	7.9	7.0	6.5	4.9	4.1	3.3	3.0	2.7
LAPSE																								
RATE																								
MEAN	-0.6	-0.7	-0.7	-0.4	-0.7	-1.4	-1.8	-2.3	-2.7	-2.7	-3.0	-3.2	-3.0	-3.1	-2.7	-2.4	-2.0	-1.4	-0.7	-0.4	-0.3	-0.4	-0.3	-0.4
SIGM	0.9	1.0	0.9	1.4	1.0	0.5	0.8	0.9	0.8	0.8	0.9	1.0	1.0	0.9	0.8	0.8	1.0	1.3	1.8	1.6	1.6	1.4	1.9	1.3
STABIL.																								
RATIO																								
MEAN	-0.2	-0.2	****	-0.3	****	****	-0.5	-1.2	-1.0	-1.0	-1.1	-1.0	-0.7	-0.7	-0.6	-0.8	-0.9	-0.6	-0.4	-0.5	-0.4	****	-0.3	-0.1
SIGM	0.3	0.5	****	0.3	****	****	0.5	1.0	0.7	0.9	1.0	0.8	0.7	0.6	0.4	0.9	0.9	0.7	0.4	0.7	0.4	****	0.2	0.6
RADIA-																								
TION																								
MEAN	0.1	0.1	0.1	0.1	0.0	0.0	0.5	0.9	1.4	1.5	1.9	2.1	1.9	1.7	1.2	0.8	0.4	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	0.3	0.5	0.8	0.8	0.9	0.8	1.0	0.8	0.7	0.5	0.2	0.0	0.1	0.0	0.0	0.0	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	39	0	0	6	8	10	5	2	0	1	1	2	1	2	0	0	1	0
A-B	80	0	1	14	15	14	10	10	1	1	2	5	6	0	1	0	0	0
B	84	1	9	21	3	8	7	7	6	3	8	3	1	3	3	0	1	0
B-C	12	0	4	3	0	0	0	0	4	1	0	0	0	0	0	0	0	0
C	18	0	11	1	0	0	0	0	2	3	1	0	0	0	0	0	0	0
C-D	5	0	3	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
D1	92	2	29	10	4	4	4	4	16	6	5	3	1	2	1	0	1	0
D2	236	8	65	26	12	5	13	12	27	10	13	11	11	14	6	2	1	0
E	8	0	2	1	0	0	0	2	2	1	0	0	0	0	0	0	0	0
F	3	0	1	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
G	134	4	3	13	11	2	11	7	9	16	6	16	7	19	6	3	1	0
LACK	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33

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	168																	0	168
0.5-0.9		2	5	16	8	9	7	5	4	3	9	9	7	11	4	1	1	0	101
1.0-1.9		3	11	39	17	19	15	14	9	8	8	7	7	6	5	0	0	0	168
2.0-2.9		6	37	25	11	7	9	14	20	5	6	1	0	2	0	0	1	0	144
3.0-3.9		1	52	4	2	0	0	1	15	5	1	0	0	0	0	0	0	0	81
4.0-4.9		0	19	0	0	1	0	0	5	2	4	0	0	0	0	0	0	0	31
5.0-5.9		0	0	0	0	0	1	1	5	3	1	0	0	0	0	0	0	0	11
6.0-6.9		0	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0	6
7.0-7.9		0	0	0	0	0	0	0	1	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	0	0	0	0	0	0	33	33
TOTL	168	12	124	84	38	36	32	35	61	28	31	17	14	19	9	1	2	33	744
20M																			
-0.4	84																	0	84
0.5-0.9		2	4	3	5	7	3	5	3	5	3	2	3	3	6	0	1	0	55
1.0-1.9		3	6	25	28	18	9	20	7	4	11	10	19	15	13	1	0	0	189
2.0-2.9		2	24	24	15	17	11	13	7	8	7	6	5	6	1	0	1	0	147
3.0-3.9		5	34	17	3	1	5	17	9	4	7	3	2	3	0	0	0	0	110
4.0-4.9		0	43	5	2	0	0	3	9	1	1	0	0	0	0	0	0	0	64
5.0-5.9		0	18	2	1	0	0	1	6	4	2	0	0	0	0	0	0	0	34
6.0-6.9		0	2	0	1	0	0	0	3	3	2	0	0	0	0	0	0	0	11
7.0-7.9		0	0	0	0	1	0	1	2	1	2	0	0	0	0	0	0	0	7
8.0-8.9		0	0	0	0	0	1	1	2	3	0	0	0	0	0	0	0	0	7
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	1	0	1	0	0	0	0	0	0	0	2
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	33
TOTL	84	12	131	76	55	44	29	61	49	33	37	21	29	27	20	1	2	33	744
40M																			
-0.4	19																	0	19
0.5-0.9		0	1	2	3	2	2	5	1	5	2	0	3	2	1	2	0	0	31
1.0-1.9		2	7	9	16	12	9	9	7	11	5	8	6	11	9	2	1	0	124
2.0-2.9		3	9	19	20	19	12	11	11	7	14	6	12	13	10	0	0	0	166
3.0-3.9		3	19	27	9	10	10	11	5	5	4	5	7	6	4	1	0	0	126
4.0-4.9		6	26	6	0	1	9	12	5	4	6	3	2	1	1	2	0	0	84
5.0-5.9		3	35	3	0	1	4	7	4	3	3	1	0	0	0	0	0	0	64
6.0-6.9		1	26	2	0	0	1	7	8	0	1	0	0	0	0	0	0	0	46
7.0-7.9		0	9	3	1	0	0	1	0	4	1	0	0	0	0	0	0	0	19
8.0-8.9		0	2	0	2	0	0	0	3	2	1	0	0	0	0	0	0	0	10
9.0-9.9		0	0	0	1	0	0	0	2	4	1	0	0	0	0	0	0	0	8
10.0-		0	0	0	1	1	2	3	1	6	0	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	33	33
TOTL	19	18	134	71	53	46	49	66	47	51	38	23	30	33	25	7	1	33	744

TABLE 4.2- 9A 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	24.1	87.6	0.0	20.2	1.8	1.6	2.2	3.0
2	23.2	86.5	1.5	13.8	1.8	1.4	1.8	2.8
3	22.0	84.0	0.0	15.9	1.0	2.8	3.7	5.0
4	18.5	81.0	10.5	****	1.0	3.5	4.8	6.7
5	19.3	65.3	0.0	20.7	2.6	2.6	3.4	5.0
6	18.9	78.6	0.0	5.9	0.6	0.5	0.8	1.4
7	20.5	87.3	1.0	11.9	0.4	1.7	2.4	3.3
8	21.5	86.8	0.0	9.7	0.5	1.6	2.3	3.2
9	21.0	86.3	0.5	8.4	0.5	2.9	3.7	4.9
10	22.7	88.7	27.0	4.9	1.0	2.2	3.2	4.5
11	20.2	88.6	16.5	5.4	0.8	2.6	3.4	4.8
12	20.4	87.8	67.0	2.1	1.1	6.2	8.2	10.9
13	22.5	66.4	0.0	19.0	2.2	2.1	3.2	4.9
14	19.6	72.7	0.0	17.0	2.0	1.7	2.4	3.5
15	18.2	77.9	8.5	2.3	1.4	2.2	3.0	4.5
16	18.6	77.8	0.0	9.8	1.4	1.4	2.0	3.2
17	19.2	80.6	0.0	15.5	1.7	1.4	2.0	3.3
18	18.6	78.7	0.0	16.3	2.0	1.2	1.6	2.7
19	18.2	82.0	1.5	6.2	1.1	0.4	0.8	1.6
20	18.5	91.5	15.0	4.3	0.5	0.6	1.1	1.8
21	21.0	79.6	0.5	12.6	1.5	1.2	1.9	3.2
22	18.4	69.0	0.0	15.6	2.0	0.9	1.4	2.5
23	18.3	81.8	8.5	3.2	0.7	2.2	3.1	4.8
24	19.1	79.8	12.0	8.6	0.6	4.1	5.2	6.8
25	20.7	90.0	36.5	1.7	0.5	3.2	4.3	6.0
26	24.9	75.6	0.0	16.2	1.8	3.1	4.8	7.0
27	22.3	81.0	0.0	14.8	2.0	1.1	1.7	2.8
28	19.7	71.5	0.0	4.0	1.4	1.5	2.1	3.3
29	18.1	74.6	0.0	9.3	1.6	1.0	1.4	2.6
30	17.7	80.8	0.0	8.0	1.7	0.7	1.1	2.2
MONTH	20.2	80.6	206.5	10.4	1.3	2.0	2.7	4.0
LACK	10	15	9	7	3	10	10	10

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	17.6	11.8	22.7	13.9	4.5	1.4	2.0	1.1	1.5	1.7	3.2	0.4	2.7	3.4	7.0	3.1	1.8
20M	9.7	10.8	24.1	15.1	4.8	1.5	2.0	1.8	1.0	2.0	3.1	1.1	2.5	3.9	9.9	3.9	2.7
40M	1.8	13.2	23.5	15.2	4.8	1.7	2.5	2.1	0.7	3.4	2.0	1.4	2.3	3.9	10.1	7.2	4.1

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	1.3	1.3	1.4	1.4	1.4	1.5	1.7	2.0	2.3	2.6	2.5	2.6	2.6	2.6	2.7	2.7	2.4	2.0	2.1	2.0	1.9	1.6	1.4	1.2
SIGM	1.3	1.4	1.5	1.3	1.4	1.4	1.7	1.4	1.3	1.3	1.3	1.5	1.6	1.4	2.2	2.0	1.9	1.5	1.7	1.8	1.9	1.7	1.4	1.4
20M																								
MEAN	2.0	2.1	2.1	2.2	2.1	2.1	2.4	2.7	3.1	3.3	3.3	3.4	3.5	3.5	3.6	3.6	3.3	2.9	3.1	2.8	2.7	2.3	2.1	1.8
SIGM	1.8	1.8	1.8	1.6	1.8	1.8	2.2	1.9	1.7	1.8	1.8	1.9	2.0	1.9	2.8	2.6	2.4	1.9	2.1	2.3	2.4	2.1	1.9	1.8
40M																								
MEAN	3.6	3.6	3.6	3.7	3.7	3.6	3.6	3.7	4.2	4.3	4.3	4.4	4.4	4.5	4.8	4.7	4.5	4.3	4.4	4.1	4.2	3.7	3.5	3.5
SIGM	2.1	2.2	2.1	1.8	2.0	2.0	2.5	2.4	2.3	2.5	2.5	2.5	2.7	2.6	3.5	3.3	3.1	2.8	2.6	2.9	2.8	2.6	2.2	2.2
TEMPERA-																								
TURE																								
MEAN	18.7	18.4	18.3	18.3	18.2	18.3	19.2	20.4	21.3	21.8	22.2	22.4	22.2	22.1	21.9	21.5	21.1	20.8	20.5	20.2	20.0	19.6	19.3	18.9
SIGM	2.4	2.5	2.6	2.6	2.6	2.6	2.5	2.5	2.6	2.6	2.7	2.7	2.6	2.6	2.2	2.1	1.8	1.8	1.8	1.8	1.9	2.1	2.2	2.3
HUMIDITY																								
MEAN	86.0	86.5	86.8	85.9	86.1	85.7	82.3	79.0	75.4	73.6	73.3	72.7	73.6	74.5	76.2	76.4	78.5	81.2	81.3	82.5	82.5	83.0	83.8	84.9
SIGM	7.2	7.6	5.9	6.9	7.0	7.2	7.6	9.2	12.9	12.8	14.1	12.8	12.4	13.5	11.3	10.8	10.9	9.5	8.5	7.5	8.0	8.1	8.4	8.0
LAPSE																								
RATE																								
MEAN	0.0	0.3	0.3	0.2	0.5	-0.3	-1.4	-2.2	-2.5	-2.6	-2.9	-2.9	-2.7	-2.7	-2.4	-2.1	-1.6	-1.0	-0.7	-0.5	-0.5	-0.4	-0.5	-0.4
SIGM	1.7	1.8	1.9	2.2	2.5	2.1	1.1	0.7	0.7	0.7	0.9	0.9	0.9	0.9	1.0	0.9	0.7	1.3	1.7	1.8	1.7	1.8	1.4	1.5
STABIL.																								
RATIO																								
MEAN	-0.2	-0.2	-0.2	-0.2	0.0	-0.4	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.7	-0.7	-0.5	-0.5	-0.6	-0.4	-0.3	-0.2	-0.2	0.0	-0.3	-0.4
SIGM	0.9	0.3	0.4	0.2	0.8	0.6	0.8	0.6	0.6	0.8	0.6	0.4	0.6	0.7	0.5	0.5	0.6	0.4	0.2	0.3	0.2	1.7	0.6	0.5
RADIA-																								
TION																								
MEAN	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.8	1.2	1.4	1.6	1.6	1.4	1.1	0.8	0.5	0.0	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	0.0	0.0	0.6	0.7	0.8	1.0	0.9	0.9	0.8	0.6	0.3	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1

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	14	0	0	4	6	2	0	0	0	0	0	0	0	1	0	1	0	0
A-B	47	1	4	12	8	3	2	2	0	0	0	1	3	6	4	1	0	0
B	66	4	18	21	6	5	5	3	0	0	0	0	0	1	1	2	0	0
B-C	15	1	7	3	0	0	0	0	0	1	3	0	0	0	0	0	0	0
C	27	1	13	6	0	0	0	1	0	1	5	0	0	0	0	0	0	0
C-D	9	1	4	0	0	0	0	0	0	0	3	0	0	0	1	0	0	0
D1	85	11	41	12	4	0	5	1	1	1	3	0	0	0	3	1	2	0
D2	242	45	52	29	10	1	6	1	7	10	7	1	10	13	29	10	11	0
E	14	1	8	1	0	0	0	0	1	0	2	1	0	0	0	0	0	0
F	15	6	2	1	0	0	0	0	0	0	0	1	2	1	2	0	0	0
G	176	16	16	14	5	2	0	2	3	1	2	1	13	14	54	28	5	0
LACK	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10

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	125																	0	125
0.5-0.9		5	4	9	5	1	6	4	0	1	2	0	7	12	25	17	2	0	100
1.0-1.9		27	23	31	16	7	4	3	5	3	1	1	9	10	20	4	7	0	171
2.0-2.9		17	54	47	11	2	3	1	1	4	3	2	3	2	3	0	3	0	156
3.0-3.9		20	39	9	0	0	0	0	0	1	7	0	0	0	1	1	1	0	79
4.0-4.9		8	25	3	0	0	0	0	0	2	7	0	0	0	1	0	0	0	46
5.0-5.9		4	6	0	0	0	1	0	0	1	3	0	0	0	0	0	0	0	15
6.0-6.9		1	6	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	9
7.0-7.9		1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3
8.0-8.9		1	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	4
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	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10
TOTL	125	84	161	99	32	10	14	8	11	12	23	3	19	24	50	22	13	10	720
20M																			
-0.4	69																	0	69
0.5-0.9		2	1	1	1	0	5	1	1	0	0	1	1	6	30	18	6	0	74
1.0-1.9		13	15	18	13	4	6	5	3	3	1	1	5	14	27	9	9	0	146
2.0-2.9		21	32	33	9	5	2	5	0	2	0	2	6	4	9	0	2	0	132
3.0-3.9		11	49	43	11	1	1	1	0	1	1	3	5	4	2	0	0	0	133
4.0-4.9		12	33	7	0	0	0	0	0	3	7	1	1	0	1	1	2	0	68
5.0-5.9		12	17	3	0	0	0	0	0	1	3	0	0	0	1	0	0	0	37
6.0-6.9		4	9	2	0	0	0	0	0	2	6	0	0	0	0	0	0	0	23
7.0-7.9		0	4	0	0	1	0	0	0	1	3	0	0	0	0	0	0	0	9
8.0-8.9		1	6	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	9
9.0-9.9		1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	4
10.0-		0	4	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	6
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10
TOTL	69	77	171	107	34	11	14	13	7	14	22	8	18	28	70	28	19	10	720
40M																			
-0.4	13																	0	13
0.5-0.9		0	2	2	1	2	3	0	0	1	0	0	0	0	2	4	3	0	20
1.0-1.9		6	3	8	6	4	6	2	0	2	0	1	4	10	14	17	8	0	91
2.0-2.9		16	22	19	9	3	6	4	2	2	0	0	2	11	26	18	13	0	153
3.0-3.9		16	25	28	11	2	1	5	0	2	2	2	4	3	17	9	1	0	128
4.0-4.9		18	39	31	3	0	2	1	1	1	0	1	1	3	6	2	1	0	110
5.0-5.9		12	27	13	0	0	0	0	0	4	0	3	5	0	6	0	2	0	72
6.0-6.9		9	20	2	3	0	0	0	0	4	1	3	0	0	1	1	1	0	45
7.0-7.9		8	10	1	1	0	0	0	0	2	3	0	0	0	0	0	0	0	25
8.0-8.9		3	7	3	0	0	0	0	0	1	2	0	0	1	0	0	0	0	17
9.0-9.9		2	3	1	0	0	0	0	0	4	3	0	0	0	0	0	0	0	13
10.0-		4	9	0	0	1	0	3	2	1	3	0	0	0	0	0	0	0	23
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10
TOTL	13	94	167	108	34	12	18	15	5	24	14	10	16	28	72	51	29	10	720

TABLE 4.2-10A 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	18.0	80.3	0.0	12.3	2.0	0.9	1.4	2.3
2	16.6	87.3	10.5	9.6	0.8	0.9	1.3	2.5
3	17.0	76.1	1.0	13.9	2.0	2.1	2.8	4.1
4	17.1	78.2	0.0	16.3	2.0	1.2	1.7	2.7
5	18.1	80.9	12.5	12.1	1.3	1.1	1.5	2.2
6	17.1	85.0	0.5	2.1	1.1	0.8	1.2	2.3
7	17.5	78.9	0.0	4.3	0.9	2.5	3.2	4.6
8	17.3	85.4	24.5	1.6	0.8	4.8	6.2	8.1
9	16.3	70.4	26.0	3.4	2.0	6.1	7.8	10.2
10	15.3	70.2	0.5	8.5	1.4	3.1	4.1	5.9
11	15.3	86.5	3.0	3.6	0.7	1.2	1.6	3.1
12	17.4	86.5	0.0	14.1	1.1	1.1	1.6	2.8
13	17.4	83.3	0.0	13.8	1.3	1.1	1.6	2.7
14	18.4	82.5	0.0	13.8	1.4	1.2	2.1	3.1
15	18.4	81.9	0.0	13.7	1.2	1.4	2.0	3.1
16	17.4	69.5	0.5	10.2	1.5	1.6	2.3	3.5
17	12.1	56.5	0.0	13.6	3.0	3.1	4.0	5.5
18	13.5	77.2	0.0	14.7	2.3	1.5	1.9	3.3
19	16.9	88.1	17.0	4.4	0.5	1.4	2.2	4.0
20	18.9	87.6	50.5	5.9	1.9	2.1	3.2	5.1
21	15.9	70.6	0.0	14.5	2.2	1.3	1.9	3.6
22	14.1	69.3	0.0	14.5	2.8	1.1	1.8	3.4
23	14.6	67.0	0.0	14.3	2.5	1.4	2.0	3.6
24	15.7	77.4	0.0	7.1	2.1	2.0	2.9	4.8
25	11.1	48.3	0.0	14.6	3.2	1.8	2.8	4.5
26	10.0	62.4	0.0	14.3	3.0	0.9	1.5	2.6
27	11.5	73.2	0.0	13.7	2.3	1.3	1.8	3.0
28	13.6	81.7	0.0	12.0	1.3	0.9	1.3	2.4
29	15.3	83.8	0.0	8.5	1.6	2.1	2.9	4.4
30	15.0	79.5	0.0	10.8	2.0	2.0	2.8	4.2
31	14.6	84.8	0.0	11.4	1.0	1.1	1.5	2.4
MONTH	15.7	77.1	146.5	10.6	1.7	1.8	2.5	3.9
LACK	2	2	0	2	0	2	2	2

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	15.2	14.6	10.8	6.6	5.0	3.4	1.3	2.4	1.9	1.6	1.8	0.8	2.7	8.8	17.3	3.5	2.4
20M	6.3	13.6	13.5	7.0	5.7	3.2	1.2	3.2	1.3	1.6	1.6	1.1	1.6	9.0	21.7	5.0	3.2
40M	1.2	14.6	12.7	7.1	5.0	3.9	2.0	3.5	1.1	1.6	1.8	1.3	1.9	8.5	19.9	8.0	5.9

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	1.4	1.5	1.7	1.6	1.8	1.5	1.5	1.8	1.9	2.2	2.4	2.4	2.3	2.6	2.2	2.1	1.8	1.7	1.5	1.3	1.3	1.3	1.3	1.4
SIGM	1.6	1.4	2.0	1.7	2.0	1.7	1.6	1.8	2.2	1.4	1.2	1.0	1.1	1.2	1.0	1.1	1.4	1.3	1.6	1.5	1.5	1.6	1.5	1.4
20M																								
MEAN	2.1	2.2	2.6	2.4	2.7	2.3	2.2	2.3	2.5	2.7	3.1	3.1	3.0	3.4	2.9	2.8	2.6	2.6	2.3	1.9	1.9	1.8	1.9	2.0
SIGM	2.0	1.8	2.5	2.2	2.3	2.3	2.0	2.3	2.7	1.7	1.5	1.3	1.4	1.5	1.3	1.3	1.6	1.6	2.0	1.8	1.9	1.9	1.8	1.7
40M																								
MEAN	3.8	4.0	4.3	4.2	4.6	4.2	3.6	3.4	3.4	3.5	4.0	4.1	4.0	4.4	4.0	4.0	3.9	3.9	3.7	3.3	3.5	3.5	3.6	3.8
SIGM	2.3	2.1	3.2	2.5	2.7	2.8	2.2	2.8	3.3	2.1	2.0	1.8	1.9	2.0	1.7	1.7	2.0	2.0	2.3	2.4	2.1	2.3	2.0	2.1
TEMPERA-																								
TURE																								
MEAN	13.3	13.0	12.9	12.7	12.7	12.6	13.5	15.1	17.1	18.4	19.0	19.2	19.2	19.1	18.8	18.3	17.4	16.9	16.4	15.5	14.8	14.3	13.8	13.5
SIGM	3.4	3.5	3.5	3.5	3.8	3.8	3.4	2.7	2.1	2.1	2.2	2.2	2.2	2.2	1.9	1.9	2.3	2.3	2.6	2.8	2.8	3.1	3.2	3.4
HUMIDITY																								
MEAN	84.6	84.4	83.8	83.8	83.4	83.8	81.6	78.1	71.9	66.9	65.5	65.5	66.8	67.2	67.9	69.3	73.9	75.5	77.6	81.0	82.9	84.1	84.8	85.2
SIGM	10.9	11.1	11.6	11.5	11.6	11.2	11.7	12.7	13.8	15.0	15.5	15.1	15.5	15.0	14.3	13.3	10.6	11.1	11.0	10.7	10.3	9.1	9.3	9.1
LAPSE																								
RATE																								
MEAN	1.2	1.4	1.7	1.1	1.8	1.4	-0.4	-1.9	-2.4	-2.8	-3.0	-3.0	-2.9	-2.7	-2.3	-1.5	-0.3	0.5	0.8	1.8	1.7	1.6	1.6	1.8
SIGM	2.2	2.7	2.6	2.0	2.8	2.4	1.4	0.8	0.9	0.7	0.8	0.8	0.7	0.6	0.7	0.8	2.3	2.5	2.8	3.0	3.2	3.2	3.0	2.9
STABIL.																								
RATIO																								
MEAN	0.6	0.4	0.9	0.2	0.9	0.3	-0.4	-0.8	-0.8	-0.9	-0.8	-0.8	-0.7	-0.6	-0.6	-0.4	-0.4	-0.1	-0.1	0.5	0.2	0.0	1.0	0.7
SIGM	1.9	1.2	1.7	0.6	1.4	1.2	0.8	0.9	0.9	0.9	0.6	0.7	0.5	0.5	0.6	0.5	0.4	0.6	0.2	2.2	1.1	0.9	2.3	1.7
RADIA-																								
TION																								
MEAN	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.7	1.1	1.6	1.8	1.7	1.4	1.2	0.8	0.3	0.2	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	0.1	0.4	0.6	0.7	0.8	0.8	0.7	0.5	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	19	0	1	2	5	4	2	0	2	1	1	0	1	0	0	0	0	0
A-B	63	1	0	10	11	6	0	6	2	1	2	1	3	6	12	2	0	0
B	64	5	10	11	9	3	2	4	1	0	3	4	1	3	7	1	0	0
B-C	11	3	5	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0
C	31	7	10	7	1	0	0	1	3	0	0	0	0	0	1	0	1	0
C-D	7	2	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
D1	82	24	16	6	6	4	1	4	2	2	2	1	1	3	4	3	3	0
D2	204	42	17	1	4	5	4	2	2	3	1	0	6	27	63	18	9	0
E	24	9	5	3	0	0	0	0	0	4	0	0	0	1	1	0	1	0
F	19	7	3	3	0	0	0	0	0	0	0	0	0	3	2	0	1	0
G	218	11	11	6	5	4	4	4	4	4	4	2	11	47	70	24	7	0
LACK	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

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	113																	0	113
0.5-0.9		4	2	2	6	6	1	3	2	0	3	1	9	22	66	18	4	0	149
1.0-1.9		14	15	17	22	14	4	7	5	7	6	3	8	36	56	8	7	0	229
2.0-2.9		30	14	26	8	3	2	6	5	0	3	2	3	6	4	0	5	0	117
3.0-3.9		26	30	4	1	1	2	2	1	5	1	0	0	1	2	0	1	0	77
4.0-4.9		15	7	0	0	1	1	0	0	0	0	0	0	0	0	0	1	0	25
5.0-5.9		9	6	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	16
6.0-6.9		2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
7.0-7.9		6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
8.0-8.9		1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9.0-9.9		0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
10.0-		1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
TOTL	113	108	80	49	37	25	10	18	14	12	13	6	20	65	128	26	18	2	744
20M																			
-0.4	47																	0	47
0.5-0.9		4	2	1	2	3	0	2	0	1	1	1	0	5	33	25	5	0	85
1.0-1.9		3	11	6	17	11	4	7	2	1	3	3	5	28	103	12	10	0	226
2.0-2.9		19	16	24	16	6	2	9	6	5	5	2	3	23	20	0	6	0	162
3.0-3.9		29	21	16	6	0	0	2	1	0	1	1	1	9	3	0	1	0	91
4.0-4.9		17	28	4	1	2	2	3	0	4	1	1	1	1	2	0	1	0	68
5.0-5.9		11	7	1	0	1	0	1	0	1	1	0	2	1	0	0	1	0	27
6.0-6.9		9	5	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	15
7.0-7.9		1	3	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	6
8.0-8.9		2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
9.0-9.9		4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
10.0-		2	5	0	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	2	2
TOTL	47	101	100	52	42	24	9	24	10	12	12	8	12	67	161	37	24	2	744
40M																			
-0.4	9																	0	9
0.5-0.9		1	0	2	0	0	3	2	0	1	1	0	1	4	1	6	3	0	25
1.0-1.9		5	2	4	7	3	1	2	1	0	5	1	2	9	12	10	9	0	73
2.0-2.9		4	8	9	14	16	5	8	2	0	0	5	4	20	30	22	18	0	165
3.0-3.9		15	15	17	11	1	2	9	4	4	3	2	4	15	68	17	6	0	193
4.0-4.9		25	19	13	4	2	2	1	1	2	1	1	1	12	26	3	3	0	116
5.0-5.9		19	23	4	0	1	0	1	0	0	0	0	0	1	10	1	2	0	62
6.0-6.9		12	10	4	1	1	0	1	0	1	2	0	0	1	0	0	2	0	35
7.0-7.9		8	4	0	0	0	1	2	0	4	0	1	2	1	0	0	1	0	24
8.0-8.9		9	4	0	0	2	1	0	0	0	1	0	0	0	1	0	0	0	18
9.0-9.9		1	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	4
10.0-		9	7	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	18
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
TOTL	9	108	94	53	37	29	15	26	8	12	13	10	14	63	148	59	44	2	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	16.6	81.6	0.0	6.4	0.3	1.5	2.2	3.2
2	12.7	55.3	0.0	8.5	2.2	1.4	2.0	3.3
3	9.4	67.1	0.0	12.2	2.9	1.1	1.6	3.1
4	13.6	77.4	0.0	9.3	1.2	1.2	1.9	3.2
5	14.6	87.3	14.0	1.9	1.2	1.1	1.8	3.0
6	13.4	69.3	0.0	8.5	2.1	2.2	3.0	4.5
7	11.9	89.5	13.0	2.5	1.3	1.1	1.7	3.2
8	15.1	79.4	0.0	10.7	0.9	1.0	1.5	2.8
9	15.1	85.5	2.0	4.1	0.4	1.5	2.1	2.9
10	14.1	91.5	18.0	1.5	0.8	4.6	5.8	7.6
11	13.9	89.0	6.5	4.5	0.9	1.9	2.9	4.4
12	11.7	75.4	0.0	10.7	2.3	0.9	1.5	2.7
13	15.0	68.6	0.0	11.0	2.1	1.1	1.7	2.9
14	12.8	71.0	0.0	10.9	1.9	1.0	1.4	2.6
15	14.1	81.0	0.0	4.7	0.7	0.5	0.8	1.9
16	15.7	80.2	0.0	5.7	0.7	1.3	2.4	3.7
17	11.9	89.1	3.0	1.2	0.8	2.0	2.7	4.0
18	11.7	86.3	0.0	6.2	0.7	1.1	1.5	2.4
19	13.4	79.8	0.0	4.5	1.2	0.7	1.1	2.2
20	13.1	68.0	0.0	9.6	1.3	1.9	2.6	3.9
21	11.3	72.5	0.0	7.3	2.0	1.6	2.2	3.1
22	11.5	85.7	0.0	4.9	0.9	0.5	1.1	2.2
23	14.0	65.3	0.0	8.4	0.6	1.8	2.5	4.0
24	11.2	56.2	0.0	9.8	2.4	2.0	3.2	4.8
25	5.0	58.7	0.0	8.4	3.4	0.9	0.9	2.9
26	3.8	63.9	0.0	10.5	3.3	0.6	0.7	3.0
27	5.1	53.0	0.0	9.9	3.5	1.4	2.0	3.8
28	****	****	****	****	****	****	****	****
29	10.5	68.7	0.0	7.7	0.6	1.5	2.1	3.2
30	15.0	87.8	12.0	1.7	0.9	2.0	3.1	4.5
MONTH	12.2	75.4	68.5	6.9	1.6	1.4	2.1	3.4
LACK	57	57	50	21	36	57	57	57

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	18.9	9.4	8.7	4.4	3.9	2.3	1.2	0.8	1.5	0.6	2.4	3.6	7.1	14.6	13.3	4.8	2.6
20M	11.2	9.4	9.0	4.5	5.1	3.0	1.1	0.9	1.5	0.9	2.1	4.1	8.3	12.2	17.2	6.3	3.2
40M	2.6	10.1	9.2	4.4	4.8	3.2	1.8	0.9	2.1	0.6	3.3	2.7	7.2	13.3	22.0	7.1	4.7

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	1.4	1.3	1.4	1.4	1.6	1.6	1.8	1.7	1.7	1.8	1.6	1.9	1.8	1.8	1.6	1.2	1.2	1.1	1.3	1.3	1.1	1.1	1.1	1.2
SIGM	1.1	1.1	0.9	1.2	1.1	1.4	1.6	1.5	1.6	1.4	1.1	1.1	0.9	1.1	1.1	1.1	1.3	1.4	1.4	1.2	1.0	1.2	1.2	1.2
20M																								
MEAN	2.0	2.0	2.1	2.1	2.3	2.4	2.6	2.2	2.3	2.5	2.3	2.5	2.5	2.5	2.1	1.7	1.8	1.7	2.0	1.9	1.7	1.7	1.7	1.8
SIGM	1.4	1.4	1.2	1.5	1.4	1.6	2.1	1.9	2.1	1.8	1.5	1.5	1.3	1.5	1.6	1.4	1.6	1.7	1.8	1.5	1.2	1.4	1.5	1.5
40M																								
MEAN	3.5	3.3	3.9	3.6	4.1	4.0	4.0	3.4	3.2	3.5	3.3	3.6	3.5	3.4	3.3	2.9	3.1	2.9	3.5	3.6	3.2	3.3	3.2	3.3
SIGM	1.6	1.5	1.1	1.6	1.5	1.8	2.3	2.1	2.5	2.2	1.9	2.1	1.8	2.0	2.1	1.9	2.1	2.0	2.2	1.6	1.4	1.5	2.0	1.8
TEMPERA-																								
TURE																								
MEAN	9.9	9.7	9.8	9.7	9.6	9.4	10.1	11.4	13.1	14.2	15.1	15.5	15.8	15.8	15.4	14.4	13.5	12.8	12.2	11.7	11.3	10.9	10.4	10.0
SIGM	4.3	4.4	4.5	4.8	4.9	5.0	4.5	3.7	2.9	2.7	2.6	2.8	2.4	2.5	2.5	2.6	3.0	3.3	3.5	3.7	3.9	4.0	4.2	4.1
HUMIDITY																								
MEAN	83.8	84.0	83.4	84.2	83.9	84.2	83.8	80.0	73.0	66.4	63.3	61.9	64.0	64.3	66.3	69.4	71.4	73.3	74.7	76.0	77.9	79.5	81.4	82.4
SIGM	11.5	11.8	11.8	9.9	10.0	9.6	9.5	11.8	16.0	18.8	18.6	18.8	18.0	17.9	17.3	16.8	17.3	16.4	15.0	14.4	14.5	13.1	11.6	12.8
LAPSE																								
RATE																								
MEAN	2.2	1.9	2.1	1.7	1.5	1.6	0.8	-1.3	-2.5	-2.7	-2.9	-2.7	-2.6	-2.1	-1.7	-0.7	0.5	1.3	1.4	1.0	1.4	1.7	2.5	2.4
SIGM	3.8	3.7	3.8	3.7	4.1	3.6	3.1	1.1	0.9	0.9	0.9	0.8	0.7	1.1	0.7	1.5	2.8	3.2	3.4	2.9	3.1	3.8	4.2	4.4
STABIL.																								
RATIO																								
MEAN	0.9	0.7	0.7	0.8	1.1	0.6	0.1	-0.7	-1.0	-1.0	-1.3	-0.8	-0.9	-0.7	-0.7	-0.5	-0.2	0.0	-0.2	-0.1	-0.0	****	****	0.6
SIGM	2.3	2.2	1.4	2.2	2.7	2.0	1.1	0.7	0.9	0.8	1.0	0.5	0.6	0.6	0.5	0.3	0.4	0.8	0.5	0.5	0.7	****	****	1.4
RADIA-																								
TION																								
MEAN	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.5	0.8	1.1	1.2	1.2	1.0	0.8	0.4	0.1	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	0.3	0.5	0.6	0.6	0.6	0.5	0.4	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TABLE 4.2-11D 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	2	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0
A-B	50	0	2	1	9	2	1	2	0	0	2	2	6	8	9	5	1	0
B	66	2	3	5	4	6	4	0	1	1	8	4	4	12	8	4	0	0
B-C	5	0	2	0	0	0	0	0	0	0	0	2	0	0	1	0	0	0
C	15	1	6	2	0	0	0	0	2	0	1	0	1	1	0	1	0	0
C-D	3	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
D1	108	12	17	5	2	6	4	4	5	2	5	4	6	12	13	7	4	0
D2	223	38	30	14	8	6	1	0	3	3	1	2	18	45	31	10	13	0
E	5	3	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
F	6	3	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0
G	180	4	1	2	7	7	0	0	0	5	5	17	24	41	45	15	7	0
LACK	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57

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	125																	0	125
0.5-0.9		7	1	3	8	7	3	2	1	2	2	14	19	29	33	7	6	0	144
1.0-1.9		18	6	11	15	6	3	3	1	2	12	5	26	57	45	19	10	0	239
2.0-2.9		21	14	7	3	2	2	0	3	0	1	2	2	11	8	6	0	0	82
3.0-3.9		7	20	4	0	0	0	0	0	0	0	2	0	0	2	0	1	0	36
4.0-4.9		4	11	4	0	0	0	0	1	0	1	1	0	0	0	0	0	0	22
5.0-5.9		5	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	10
6.0-6.9		0	2	0	0	0	0	0	3	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	57	57
TOTL	125	62	58	29	26	15	8	5	10	4	16	24	47	97	88	32	17	57	720
20M																			
-0.4	74																	0	74
0.5-0.9		4	0	2	5	6	2	1	0	1	0	3	3	7	21	13	5	0	73
1.0-1.9		10	2	3	15	10	3	4	2	2	6	10	28	24	61	18	11	0	209
2.0-2.9		24	9	10	10	3	2	1	2	2	7	9	19	42	27	6	3	0	176
3.0-3.9		12	17	4	3	1	0	0	1	1	0	1	4	7	5	5	1	0	62
4.0-4.9		6	12	6	1	0	0	0	0	0	0	1	0	1	0	0	1	0	28
5.0-5.9		1	9	5	0	0	0	0	1	0	0	0	1	0	0	0	0	0	17
6.0-6.9		5	5	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	13
7.0-7.9		0	5	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	7
8.0-8.9		0	1	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	3
9.0-9.9		0	0	0	0	0	0	0	1	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	57	57
TOTL	74	62	60	30	34	20	7	6	10	6	14	27	55	81	114	42	21	57	720
40M																			
-0.4	17																	0	17
0.5-0.9		1	0	1	1	0	0	0	0	2	1	2	1	0	4	1	3	0	17
1.0-1.9		5	3	3	4	9	8	2	3	0	0	3	7	11	8	8	9	0	83
2.0-2.9		8	6	1	11	6	2	1	3	0	8	4	18	25	44	6	8	0	151
3.0-3.9		20	10	7	10	4	2	3	3	2	7	4	17	37	64	15	8	0	213
4.0-4.9		12	12	5	3	2	0	0	0	0	3	0	4	12	17	10	2	0	82
5.0-5.9		9	6	2	1	0	0	0	0	0	1	1	1	3	5	5	1	0	35
6.0-6.9		5	8	6	1	0	0	0	0	0	0	1	0	0	4	2	0	0	27
7.0-7.9		2	5	3	0	0	0	0	1	0	0	1	0	0	0	0	0	0	12
8.0-8.9		5	5	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	13
9.0-9.9		0	5	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	7
10.0-		0	1	0	0	0	0	0	3	0	2	0	0	0	0	0	0	0	6
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	57
TOTL	17	67	61	29	32	21	12	6	14	4	22	18	48	88	146	47	31	57	720

TABLE 4.2-12A 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	9.8	81.4	0.0	6.8	1.3	0.8	1.3	2.6
2	10.2	75.8	0.0	9.3	1.6	1.8	2.6	3.7
3	11.3	71.0	0.0	8.8	1.9	2.1	2.8	4.1
4	10.4	76.2	0.0	7.5	1.6	1.1	1.6	2.7
5	11.4	80.7	0.0	5.6	1.2	1.6	2.6	4.4
6	5.8	51.2	3.5	5.5	2.6	2.0	2.5	5.0
7	1.7	59.0	0.0	8.1	3.6	1.1	1.6	3.0
8	4.0	59.3	0.0	8.2	3.3	1.2	1.8	3.5
9	3.1	70.0	0.0	2.7	2.9	1.0	1.5	2.8
10	4.5	75.9	0.0	9.1	2.5	1.1	1.7	2.7
11	9.4	79.8	0.0	6.6	1.7	1.5	2.6	4.0
12	11.0	70.8	0.5	1.9	0.7	2.1	2.8	4.4
13	5.8	54.1	0.0	4.2	2.6	0.9	1.1	2.7
14	5.3	68.4	0.0	2.1	1.1	1.0	1.3	2.7
15	5.4	77.1	0.0	8.4	2.8	1.1	1.5	2.9
16	5.6	76.3	0.0	4.2	1.5	0.9	1.2	2.5
17	6.0	85.3	0.0	0.9	1.0	0.8	1.3	2.4
18	2.1	72.5	0.0	****	1.7	0.8	1.2	3.3
19	3.4	56.6	0.0	5.6	2.2	1.3	1.7	3.1
20	3.3	67.0	0.0	8.7	3.2	1.4	2.2	3.7
21	6.7	71.2	0.0	8.4	2.3	2.2	2.9	4.5
22	8.6	84.1	5.0	1.1	0.4	1.1	1.6	2.7
23	7.5	75.7	0.0	8.1	2.2	1.2	1.9	3.1
24	5.8	62.4	0.0	8.6	3.0	1.1	2.0	3.3
25	5.4	58.7	0.0	8.1	2.4	1.1	1.5	3.3
26	4.5	82.3	9.0	0.8	0.4	1.2	1.7	2.8
27	6.1	82.0	0.0	6.3	1.3	0.7	1.1	2.1
28	5.9	62.9	0.0	8.9	2.0	1.2	1.7	3.1
29	5.9	76.4	0.0	6.6	1.4	0.8	1.1	2.6
30	5.6	67.8	0.0	8.2	1.6	2.0	2.8	4.3
31	1.8	54.4	0.0	9.3	3.3	0.8	1.2	2.6
MONTH	6.3	70.5	18.0	6.3	2.0	1.3	1.8	3.2
LACK	7	9	5	6	1	7	7	7

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	16.0	4.6	4.5	1.9	1.8	2.2	1.1	1.1	0.9	0.5	3.0	2.4	5.3	19.1	26.2	6.9	2.4
20M	4.9	4.3	5.3	2.0	2.0	2.4	1.2	1.4	1.1	0.3	3.1	3.5	6.4	16.4	32.8	9.4	3.4
40M	1.1	4.6	5.6	2.7	2.3	2.4	1.6	1.2	1.4	0.5	2.8	3.8	4.5	11.0	33.4	17.1	3.9

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	1.1	1.1	1.2	1.0	0.9	1.1	1.0	1.3	1.3	1.5	1.5	1.6	1.6	1.8	1.6	1.2	1.0	1.1	1.2	1.2	1.2	1.1	1.2	1.2
SIGM	0.7	0.5	1.0	0.6	0.5	0.7	0.7	0.8	0.9	1.0	0.8	0.9	0.9	1.3	1.0	1.1	0.9	1.2	1.0	1.0	0.8	0.8	0.8	0.7
20M																								
MEAN	1.6	1.8	1.9	1.5	1.4	1.7	1.6	1.8	1.6	2.1	1.9	2.2	2.1	2.5	2.2	1.9	1.6	1.9	1.8	1.7	1.7	1.7	1.8	1.8
SIGM	0.6	0.7	1.3	0.7	0.7	0.9	1.0	1.0	1.2	1.2	1.1	1.2	1.2	1.8	1.5	1.4	1.1	1.5	1.3	1.2	1.0	0.9	0.9	0.9
40M																								
MEAN	3.4	3.3	3.5	3.3	3.3	3.3	3.3	3.3	2.8	2.9	2.7	3.2	3.1	3.6	3.3	3.3	3.0	3.2	3.5	3.3	3.2	3.4	3.4	3.4
SIGM	1.3	1.1	1.7	1.3	1.2	0.9	1.1	1.1	1.4	1.5	1.5	1.8	1.8	2.4	2.3	2.0	1.4	1.8	1.4	1.7	1.3	1.2	1.1	1.3
TEMPERA-																								
TURE																								
MEAN	4.1	4.0	3.7	3.4	3.2	3.2	3.2	4.3	6.3	8.3	9.5	10.3	10.8	10.9	10.6	9.7	8.4	7.4	6.4	5.7	5.1	4.5	4.5	4.0
SIGM	3.7	3.9	3.9	3.6	3.5	3.7	3.7	3.2	2.9	2.9	2.9	3.1	3.1	3.2	3.3	3.3	3.6	3.7	3.7	3.6	3.7	3.5	3.6	3.7
HUMIDITY																								
MEAN	77.5	78.0	78.8	79.1	79.5	78.4	78.0	75.8	70.6	62.8	59.6	55.1	54.4	55.2	57.7	62.6	67.0	69.6	72.2	74.2	74.9	76.3	75.6	75.9
SIGM	12.4	12.1	11.8	11.8	10.7	12.4	12.4	12.2	12.8	13.9	16.3	16.2	16.7	17.1	16.7	15.6	14.9	14.4	13.7	13.7	13.5	13.6	13.9	13.2
LAPSE																								
RATE																								
MEAN	3.9	3.3	3.7	3.3	3.8	3.7	3.4	0.1	-2.0	-2.8	-3.0	-2.8	-2.6	-2.3	-1.6	-0.1	2.2	3.4	3.5	3.2	2.8	3.4	2.7	2.7
SIGM	3.9	3.7	3.8	3.7	4.3	4.3	3.9	1.9	1.4	0.8	0.7	0.7	0.6	0.7	0.6	1.6	3.5	4.3	4.4	3.8	3.5	4.3	3.3	2.9
STABIL.																								
RATIO																								
MEAN	2.1	2.6	2.3	2.5	1.6	2.7	3.3	-0.2	-1.4	-1.3	-1.3	-1.1	-1.3	-0.9	-0.8	-0.4	-0.1	0.9	1.2	1.9	1.6	1.5	2.0	1.6
SIGM	2.6	3.1	2.4	3.4	3.2	4.4	3.9	1.0	1.1	0.9	0.7	0.7	0.8	0.8	0.6	0.4	0.7	2.5	2.0	3.3	2.8	3.0	2.4	1.6
RADIA-																								
TION																								
MEAN	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.7	0.9	1.1	1.1	1.0	0.8	0.4	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
SIGM	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.5	0.6	0.6	0.5	0.3	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	50	2	1	2	4	3	1	2	0	0	1	5	7	9	6	6	1	0
B	80	1	3	0	3	6	3	2	0	1	8	3	6	11	22	8	3	0
B-C	9	2	5	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
C	8	0	2	1	0	0	0	0	1	0	0	0	1	1	1	1	0	0
C-D	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
D1	126	7	6	8	6	2	3	2	4	1	10	4	8	22	29	9	5	0
D2	173	14	8	0	0	3	0	0	0	1	4	6	14	40	58	19	6	0
E	10	3	3	2	0	1	0	0	0	0	0	0	0	0	1	0	0	0
F	13	1	5	0	0	0	0	0	0	2	0	0	0	1	4	0	0	0
G	268	6	1	5	1	3	2	2	4	5	6	7	19	75	105	20	7	0
LACK	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7

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	118																	0	118
0.5-0.9		4	0	0	4	3	3	4	2	2	7	6	14	36	61	20	5	0	171
1.0-1.9		14	4	6	9	11	5	3	2	0	10	9	22	99	115	20	12	0	341
2.0-2.9		6	9	3	0	2	0	1	1	2	0	3	3	6	14	9	0	0	59
3.0-3.9		9	15	4	0	0	0	0	2	0	4	0	0	0	3	2	1	0	40
4.0-4.9		1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
5.0-5.9		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
6.0-6.9		0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2
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	118	34	33	14	13	16	8	8	7	4	22	18	39	141	193	51	18	7	744
20M																			
-0.4	36																	0	36
0.5-0.9		2	1	0	2	2	1	0	0	0	3	4	4	13	56	28	4	0	120
1.0-1.9		6	5	3	10	10	8	8	5	2	7	15	15	44	143	22	13	0	316
2.0-2.9		11	2	4	2	5	0	1	1	0	6	3	20	58	33	15	5	0	166
3.0-3.9		9	13	2	1	1	0	0	1	0	1	1	7	6	7	3	2	0	54
4.0-4.9		4	11	5	0	0	0	1	1	0	1	3	1	0	3	1	1	0	32
5.0-5.9		0	5	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	8
6.0-6.9		0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
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	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	7	7
TOTL	36	32	39	15	15	18	9	10	8	2	23	26	47	121	242	69	25	7	744
40M																			
-0.4	8																	0	8
0.5-0.9		1	2	1	0	0	0	0	1	0	2	3	0	2	1	1	4	0	18
1.0-1.9		3	4	1	7	7	6	1	2	1	4	6	4	10	27	20	6	0	109
2.0-2.9		4	4	5	5	6	5	5	4	0	3	8	10	29	62	27	12	0	189
3.0-3.9		10	6	1	1	4	1	2	1	1	5	5	9	33	87	48	4	0	218
4.0-4.9		11	9	2	3	1	0	0	1	0	2	2	8	6	50	19	0	0	114
5.0-5.9		4	10	6	1	0	0	1	1	1	0	3	1	1	11	6	2	0	48
6.0-6.9		1	4	2	0	0	0	0	0	1	0	1	1	0	5	2	1	0	18
7.0-7.9		0	0	2	0	0	0	0	0	0	2	0	0	0	0	2	0	0	6
8.0-8.9		0	0	0	0	0	0	0	0	0	1	0	0	0	3	1	0	0	5
9.0-9.9		0	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	3
10.0-		0	0	0	0	0	0	0	0	0	1	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	7	7
TOTL	8	34	41	20	17	18	12	9	10	4	21	28	33	81	246	126	29	7	744