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東海研究所気象観測年報 (1976~1978年)

1980年10月

小畑 一一・小林 秀雄・片桐 浩・国分 守信

日本原子力研究所
Japan Atomic Energy Research Institute

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東海研究所気象観測年報（1976年～1978年）

日本原子力研究所東海研究所保健物理部

小畑 一一・小林 秀雄・片桐 浩・国分 守信

（1980年9月13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。
1976年1月から1978年12月までの各月における風向、風速、気温、日射、放射
収支の時間、日、月の各平均と標準偏差および降水量の総量を示す。

JAERI-M 9128

Report of Meteorological Observations
on the Site of Tokai Research Establishment from 1976 to 1978

Kazuichi OBATA ,Hideo KOBAYASHI ,Hiroshi KATAGIRI
and Morinobu KOKUBU

Division of Health Physics,
Tokai Research Establishment,JAERI

(Received September 13, 1980)

Results of meteorological observations such as wind speeds,wind directions,solar and net radiations,air temperatures on the site of Tokai Research Establishment from 1976 to 1978 are summarized in the form of meteorological statistics in this report.

Hourly data(mean of 10 minuts of each hour) are calculated 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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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。これらの結果は連続記録されており、さらにデータは磁気テープに納められ電子計算機により統計処理されている。本報は1976年1月から1978年12月までの観測結果を次の項目についてまとめたものである。

Table x.1-1	月別欠測回数
Table x.1-2	年間風向頻度（%）
Table x.1-3	月間平均および総量
Table x.1-4	大気安定度年間出現頻度（%）
Table x.1-5	月および年間極値
Table x.2-yA	気温、湿度、日射、放射収支、風速の日・月平均および降水量の日・月総量
Table x.2-yB	月間風向頻度（%）
Table x.2-yC	風速、気温、湿度、気温減率、大気安定度比、日射、放射収支の時刻別平均と標準偏差
Table x.2-yD	月間風向別大気安定度出現頻度
Table x.2-yE	月間風速階級別風向頻度

また Table x.1-2, 3, 4 に対応するグラフ（Fig. x.1-1~6）も揚げた。

2. 測 器

(1) 風向・風速	プロベラ型風向風速計
(2) 気温・気温差	サーミスタ温度計（ただし1977年4月23日以降は白金温度計 ^{註3)} ）
(3) 湿度	Dewcel露点計により得られた露点温度と1.5m気温から計算により求めた。
(4) 日射	差温熱電堆日射計
(5) 放射収支	通風式風防型示差放射計
(6) 降水量	転倒ます型雨量計

註1) x; 4は1976年, 5は1977年, 6は1978年に対応する。

註2) y; 1~12で月に対応する。

註3) 白金温度計の精度は気温で $\pm 0.5^{\circ}\text{C}$ 以内, 気温差で $\pm 0.1^{\circ}\text{C}$ である。

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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。これらの結果は連続記録されており，さらにデータは磁気テープに納められ電子計算機により統計処理されている。本報は1976年1月から1978年12月までの観測結果を次の項目についてまとめたものである。

Table x.1-1 ^{註1)}	月別欠測回数
Table x.1-2	年間風向頻度（%）
Table x.1-3	月間平均および総量
Table x.1-4	大気安定度年間出現頻度（%）
Table x.1-5	月および年間極値
Table x.2-yA ^{註2)}	気温，湿度，日射，放射収支，風速の日・月平均および降水量の日・月総量
Table x.2-yB	月間風向頻度（%）
Table x.2-yC	風速，気温，湿度，気温減率，大気安定度比，日射，放射収支の時刻別平均と標準偏差
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註3) 白金温度計の精度は気温で±0.5°C以内, 気温差で±0.1°Cである。

3. データ整理方法および要素の定義

(1) データ整理方法

1976年1月から1977年3月までの間は座標読取り装置^{註4)}により記録紙から読取った。1977年4月は人による目視読取りである。1977年5月以降は、気象データが環境放射線監視装置により自動収集記録(磁気テープ)されるようになった。データの読取り、収集はTable 3.1のとおりで、結果はすべて磁気テープに再編集し、統計解析に使用した。

(2) 風向データの補正

風向データの統計処理にあたっては以下に示すような測器取付等にもなり誤差の補正を行った。

10m高：1976年1月から1977年4月までは+1.3方位、1977年5月から

1978年12月までは+0.4方位の補正を施した。

20m高：1978年について+0.3方位の補正を施した。

40m高：全期間について-0.3方位の補正を施した。

(3) 要素の定義

各要素の定義についてはTable 3.2, 3に示す。

Table 3.1 観測値の収集方法

要素	単位	収集方法	要素	単位	収集方法
風向	16方位	正時前10分間平均	日射	Cal/ Cm ² -min	正時前10分間平均
風速	m/s	"	放射収支	"	"
気温	°C	正時の瞬時値	降水量	mm	正時前1時間積算
気温差	"	"	露点温度	°C	正時の瞬時値

註4) 米国SAC社製の高精度座標読取り装置で座標上にセットされた記録紙上の記録位置を人が特殊ペンで触れると、位置情報が符号化され紙テープに出力される。分解能は0.25mmである。

Table 3.2 要素の定義

要素	定義	単位
静 穩 (Calm)	風速が 0.4 m/s 以下	—
気温 (Temperature)	地上 1.5 m の値	°C
気温減率 (Lapse rate)	$[(\text{気温}_{40\text{m}}) - (\text{気温}_{1.5\text{m}})] \times 100 / 38.5$	°C/100m
大気安定度 (Atmos stability)	Table 3.3 を参照	—
安定度比 (Stability ratio)	$[\text{気温減率}] / [\text{風速}]_{10\text{m}}^2$	°C/100m(m/s) ²
日 射 (Solar radiation)	1月～3月 } 8時～16時 9月～12月 } 4月, 5月 } 7時～17時 7月, 8月 } 6月 7時～18時	Cal/cm ² .hr または Cal/cm ² .day
放射収支 (Net radiation)	日射の残りの時間帯	"

Table 3.3 大気安定度の定義

日射 (放射収支) cal/cm ² .min 風速 10m高 (m/s)	昼 間				(夜 間)		
	≥ 0.8	0.8~0.4	0.4~0.2	≤ 0.2	≤ 0.03	0.03~0.06	≥ 0.06
≤ 1.9	A	A-B	B	D	D	G	G
2.0~2.9	A-B	B	C	D	D	E	F
3.0~3.9	B	B-C	C	D	D	D	E
4.0~5.9	C	C-D	D	D	D	D	D
≥ 6.0	C	D	D	D	D	D	D

4. 統計結果(1976年)

4.1 年間統計結果

風向は各測高とも北西および北東風が卓越している。風速は例年なみ、気温は夏期の平均気温が多少低めである。降水量は1610mmで例年(1000~1200mm)より多い。その他の要素はほぼ例年なみである。

Table 4.1-1 月別欠測回数 1976年

要素 測高 (m)	欠測回数												年間 (%)
	1	2	3	4	5	6	7	8	9	10	11	12	
風速	10	0	12	0	0	25	0	0	0	8	0	0	45(0.5)
	20	72	11	0	0	0	5	24	5	9	2	0	128(1.5)
	40	34	44	110	7	6	0	9	0	1	78	14	322(3.7)
風向	10	0	11	0	9	0	24	0	22	27	59	0	152(1.7)
	40	36	45	72	90	6	0	9	0	1	104	16	398(4.5)
日射	-	1	10	0	13	19	12	0	1	14	15	0	87(2.4)
放射収支	1.5	4	1	0	4	13	19	0	0	31	7	3	95(1.8)
気温	1.5	84	57	14	27	0	16	37	41	56	30	4	363(4.2)
降水量	-	0	0	0	0	0	0	0	0	0	0	0	0(0.0)

Table 4.1-2 年間風向頻度 (%)

測高	風向	Caln	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10 m		10.1	4.4	13.8	9.1	3.3	1.6	1.9	2.2	5.0	3.7	3.0	3.8	3.8	6.7	15.4	8.7	3.7
40 m		1.9	6.1	14.3	8.5	3.5	1.9	1.8	4.4	5.1	3.5	3.9	3.2	4.0	6.5	13.3	12.7	5.4

Table 4.1-3 月間平均および総量

1976年

要素	測高 (m)	月 単位	1	2	3	4	5	6	7	8	9	10	11	12	年平均
静 穩	10	%	7.5	5.9	7.4	9.2	9.7	10.1	12.1	24.3	4.2	16.2	8.1	6.3	10.1
	40	"	0.8	1.5	1.6	1.1	1.6	4.0	3.8	4.7	0.8	0.9	1.0	0.8	1.9
風 速	10	m/s	1.5	2.5	1.8	2.0	2.3	2.2	2.2	1.7	2.3	1.6	1.8	1.8	2.0
	20	"	2.5	3.4	3.2	3.2	3.5	3.1	2.8	2.6	3.1	2.3	2.4	2.3	2.9
	40	"	3.4	4.1	3.5	3.8	3.9	3.3	3.3	3.2	4.2	3.7	3.8	3.9	3.7
日 射	—	Cal/cm ² day	2779	2527	3082	3409	433.1	365.3	394.4	372.8	317.8	261.7	211.9	206.2	311.9
放射収支	1.5	"	200.9	125.9	123.8	73.8	68.9	39.6	59.6	63.2	82.5	103.4	102.4	164.7	100.7
気 温	1.5	°C	2.1	4.6	7.0	11.6	15.8	18.7	21.8	22.6	20.5	15.9	9.5	4.7	12.9
降水量	—	mm	5.0	109.5	77.0	101.0	259.0	248.0	170.0	156.0	171.0	222.0	70.0	21.5	1610.0

Table 4.1-4 大気安定度年間出現頻度(%)

安定度	A	A-B	B	B-C	C	C-D	D ₁	D ₂	E	F	G
頻 度	1.6	7.5	10.4	2.6	5.9	1.6	11.5	17.5	4.2	7.3	29.9

Table 4.1-5 月および年間極値

1976年

要素	測高 (m)	月												年 間		
		項目	1	2	3	4	5	6	7	8	9	10	11		12	
風速 m/s	1.0	瞬間最大	1.22	15.7	15.0	17.5	14.0	14.5	17.5	11.5	16.0	13.0	17.5	18.4	18.4	
		出現日時	2 13:00	28 22:30	23 15:05	6 13:50	1 18:30	6 4:50	11 15:30	24 11:10	4 12:50	4 16:30	14 16:30	5 10:50	25 8:00	12月12日 8時00分
—	4.0	瞬間最大	1.70	2.05	1.75	21.2	17.1	1.98	22.0	20.7	1.95	18.2	20.0	21.6	22.0	
		出現日時	10 13:05	16 8:30	23 17:50	7 14:20	20 5:25	11 9:00	11 16:05	24 15:40	4 16:25	4 17:20	14 17:20	5 10:40	25 13:00	7月11日 16時05分
—	1.5	瞬間最高	1.64	13.3	20.6	25.2	27.8	29.3	33.3	31.7	36.2	26.3	23.0	17.3	36.2	
		出現日時	2 13:20	3 13:00	18 14:30	29 14:50	13 12:50	9 13:20	31 14:00	1 12:50	11 10:50	11 13:50	4 13:20	4 13:40	24 13:10	9月11日 13時50分
—	—	瞬間最低	-8.5	-8.7	-4.4	-0.4	5.0	1.30	1.65	1.45	10.1	2.8	-3.0	-6.6	-8.7	
		出現日時	22 7:00	13 5:30	21 5:55	5 5:40	7 3:30	17 0:20	9 4:30	29 10:50	29 10:50	25 5:30	30 6:55	30 5:50	30 5:20	2月13日 5時30分
—	—	日平均最高	9.0	9.9	12.8	18.2	20.7	23.5	27.0	27.6	26.0	22.7	15.8	8.1	27.6	
		出現日時	5	15	18	29	26	9	31	23	11	1	1	10	2	8月23日
—	—	日平均最低	-2.5	-2.3	3.2	5.9	9.8	16.2	16.6	19.7	16.0	9.4	2.7	-0.3	-2.5	
		出現日時	21	13	21	9	3	13	1	15:30	22	26	26	29	30	1月21日
—	—	日総量最大	3.0	42.5	25.5	14.5	76.5	114.5	46.0	27.0	45.0	80.0	22.5	12.5	114.5	
		出現日時	4	29	27	7:24	27	5	18	23:1	29	9	9	14	25	6月5日
—	—	時総量最大	2.0	8.0	6.0	13.5	40.0	30.5	19.0	24.0	10.0	36.0	7.0	2.5	40.0	
		出現日時	3 24	23 6	30 17	7 1	27 1	5 6	18 24	2 18	8 5	20 20	14 13	25 2	25 2	5月27日 1時
—	—	月総量最大	258.5 mm	5月												

1976年

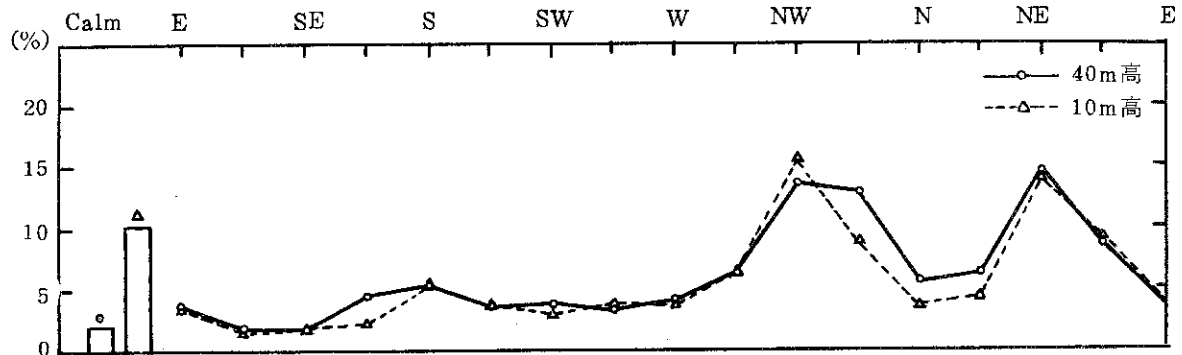


Fig. 4.1-1 年間風向頻度

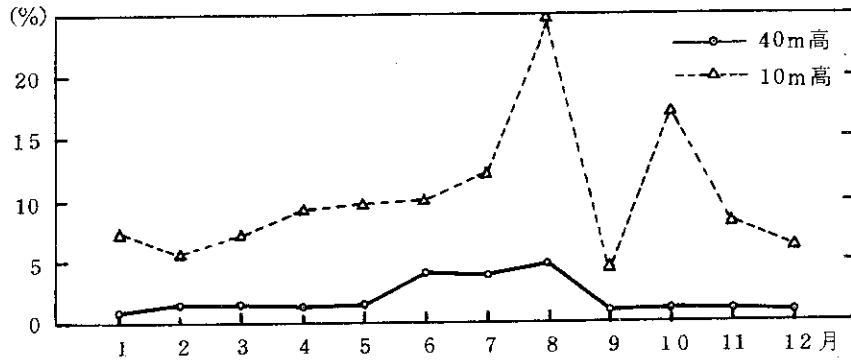


Fig. 4.1-2 月別静穏出現頻度

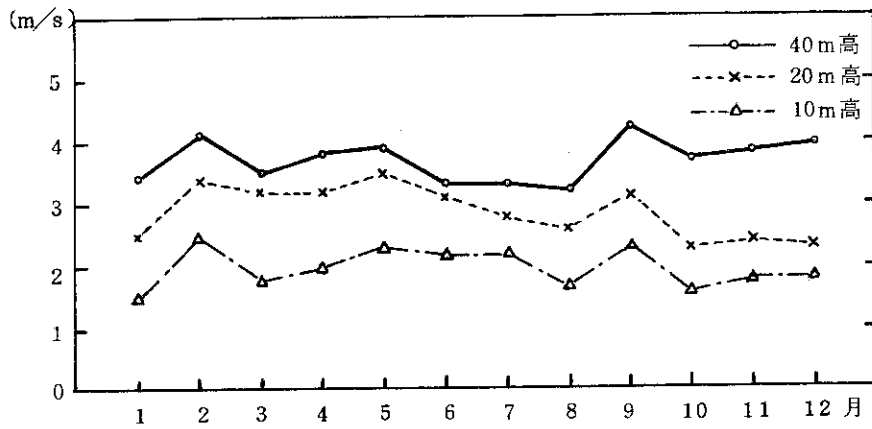


Fig. 4.1-3 月平均風速

1976年

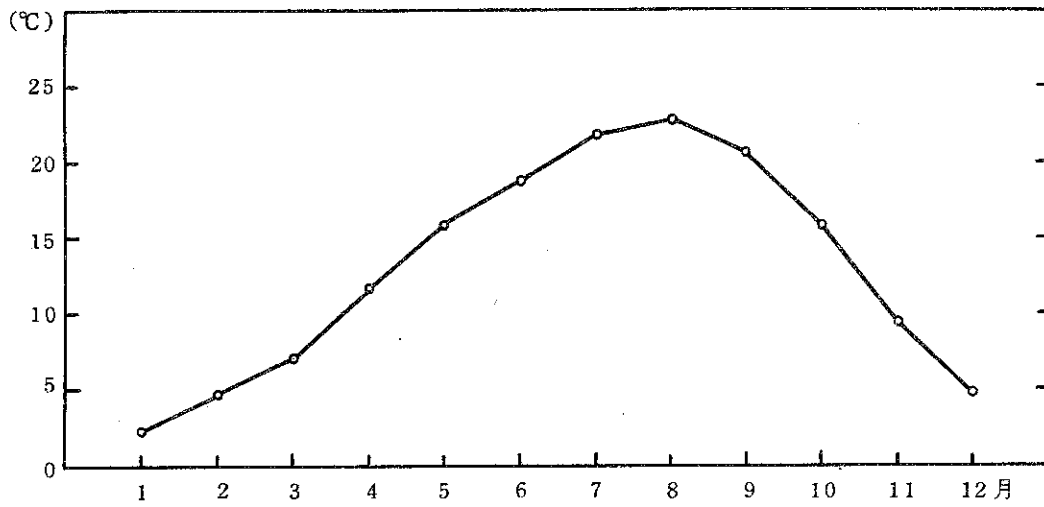


Fig. 41-4 月平均気温

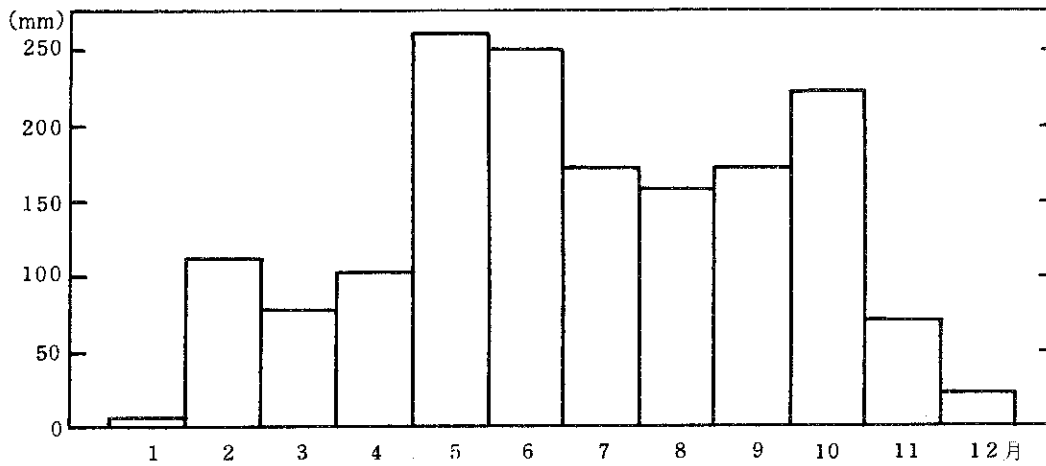


Fig. 41-5 月間降水量

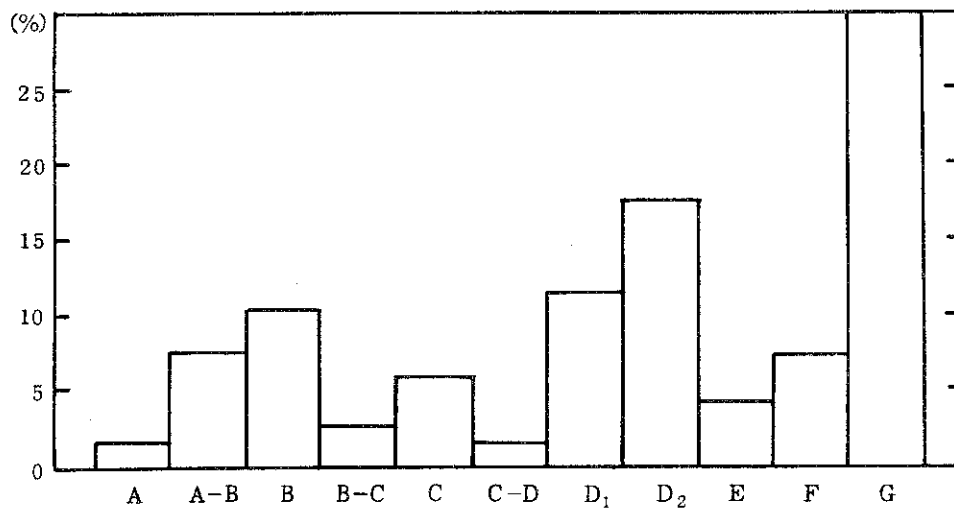


Fig. 41-6 大気安定度年間出現頻度

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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. CAL/SCM/DAY	NET RAD. CAL/SCM/DAY	WIND SPD(10) M/S		WIND SPD(20) M/S		WIND SPD(40) M/S	
						WIND	WIND	WIND	WIND	WIND	WIND
1	1.0	**	0.0	270.0	-215.5	1.2	1.6	2.6	2.6	2.6	2.6
2	5.4	**	0.0	270.0	-232.9	1.9	2.8	4.5	4.5	4.5	4.5
3	5.2	**	2.0	244.8	-115.9	1.2	**	2.4	**	2.4	2.4
4	**	**	3.0	241.2	-66.7	1.8	**	3.5	**	3.5	3.5
5	9.0	**	0.0	200.4	-153.7	1.4	3.0	3.6	3.0	3.6	3.6
6	3.3	**	0.0	272.4	-224.5	1.9	2.8	3.7	2.8	3.7	3.7
7	1.5	**	0.0	273.6	-238.9	0.5	2.2	2.1	2.2	2.1	2.2
8	2.6	**	0.0	145.8	-148.9	1.2	2.0	2.7	2.0	2.7	2.7
9	4.4	**	0.0	289.8	-215.5	1.7	3.0	4.0	3.0	4.0	4.0
10	1.4	**	0.0	283.8	-279.1	1.6	3.6	4.8	3.6	4.8	4.8
11	0.8	**	0.0	289.2	-127.9	1.8	3.2	4.1	3.2	4.1	4.1
12	0.9	**	0.0	287.4	-237.1	2.0	3.5	4.1	3.5	4.1	4.1
13	0.9	**	0.0	287.4	-229.9	1.6	2.4	3.0	2.4	3.0	3.0
14	3.8	**	0.0	300.0	-220.3	1.9	3.2	4.8	3.2	4.8	4.8
15	1.9	**	0.0	257.4	-238.9	1.3	2.2	3.3	2.2	3.3	3.3
16	5.1	**	0.0	250.8	-166.9	1.4	1.9	2.8	1.9	2.8	2.8
17	4.5	**	0.0	259.2	-140.5	1.5	2.7	3.4	2.7	3.4	3.4
18	4.8	**	0.0	245.4	-150.1	1.4	2.1	**	2.1	**	**
19	0.1	**	0.0	298.8	-258.1	1.4	2.1	3.4	2.1	3.4	3.4
20	-1.7	**	0.0	302.4	-259.9	1.2	1.5	2.6	1.5	2.6	2.6
21	-2.5	**	0.0	272.4	-261.1	1.6	2.2	3.2	2.2	3.2	3.2
22	-0.8	**	0.0	313.8	-244.9	1.9	3.1	3.8	3.1	3.8	3.8
23	-0.7	**	0.0	282.0	-236.5	1.8	2.7	3.7	2.7	3.7	3.7
24	-1.7	**	0.0	359.1	-239.7	1.4	2.1	2.9	2.1	2.9	2.9
25	**	**	0.0	301.2	-204.7	1.6	2.4	3.0	2.4	3.0	3.0
26	0.5	**	0.0	292.8	-222.7	1.8	3.4	4.3	3.4	4.3	4.3
27	1.0	**	0.0	298.8	-233.5	1.7	2.9	4.4	2.9	4.4	4.4
28	0.8	**	0.0	331.8	-167.5	1.4	2.1	2.5	2.1	2.5	2.5
29	4.6	**	0.0	275.4	-117.7	1.3	1.9	2.9	1.9	2.9	2.9
30	2.5	**	0.0	288.0	-183.7	1.5	2.3	3.2	2.3	3.2	3.2
31	1.0	**	0.0	337.2	-204.7	1.4	1.9	2.7	1.9	2.7	2.7
MONTH	2.1	**	5.0	277.9	-200.9	1.5	2.5	3.4	2.5	3.4	3.4
LACK	84	744	0	1	4	0	72	34	72	34	34

TABLE 4.2- 1B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	7.5	1.2	1.6	1.3	0.4	0.9	1.1	0.9	0.9	2.0	2.8	5.8	7.3	14.0	29.7	16.9	5.4
40M	0.8	1.8	2.4	0.9	0.4	0.6	1.1	1.4	1.6	2.4	4.4	4.5	8.6	17.2	27.7	18.8	5.4

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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	1.3	1.4	1.4	1.4	1.5	1.4	1.4	1.6	1.7	2.1	2.3	2.6	2.5	2.1	1.6	1.3	1.3	1.1	1.3	1.1	1.0	1.0	1.0
SIGMA	0.5	0.7	0.5	0.7	0.5	0.5	0.6	0.6	0.6	0.8	0.9	0.8	0.9	0.8	0.9	0.7	1.0	1.0	0.8	0.7	0.6	0.6	0.7	0.6
20M																								
MEAN	2.0	2.2	2.5	2.5	2.5	2.5	2.5	2.2	2.1	2.4	2.8	3.2	3.6	3.9	3.3	2.7	2.3	2.4	2.3	2.3	2.2	2.0	2.0	1.9
SIGMA	0.7	0.9	0.8	1.0	0.8	0.9	1.1	0.9	1.0	1.1	1.5	1.3	1.6	1.5	1.3	1.0	1.4	1.2	1.4	1.0	1.0	0.9	1.1	0.9
40M																								
MEAN	3.1	3.2	2.4	2.4	2.5	3.7	3.6	3.1	2.5	2.8	2.9	3.1	4.0	4.4	4.0	3.4	3.2	3.6	3.4	3.4	3.3	3.2	3.5	3.7
SIGMA	1.2	1.3	1.0	1.2	1.2	1.3	1.5	1.1	1.3	1.6	1.9	1.7	2.1	1.9	1.7	1.5	1.8	1.8	1.6	1.1	1.1	1.4	1.4	1.4
TEMPERA-																								
TURE																								
MEAN	-1.6	-2.2	-2.6	-2.8	-2.1	-3.7	-3.9	-1.2	2.5	5.3	7.0	8.0	8.5	8.6	8.4	7.4	5.0	3.6	2.6	1.6	0.8	0.0	-0.5	-1.1
SIGMA	2.7	3.0	2.8	2.9	2.8	2.2	2.3	2.7	2.8	2.8	2.4	2.8	3.2	3.2	3.2	3.0	3.2	3.2	2.9	3.4	3.2	3.1	3.0	2.9
HUMIDITY																								
MEAN	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
SIGMA	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
LAPSE																								
RATE																								
MEAN	5.2	5.3	6.8	6.8	5.6	6.3	7.9	7.8	3.8	1.4	0.5	-0.1	0.1	-0.1	0.7	1.4	3.6	5.0	5.3	5.3	5.8	6.2	6.1	5.8
SIGMA	2.9	3.2	3.7	3.7	3.3	3.6	3.5	4.0	3.0	2.0	1.1	2.3	1.9	0.9	0.6	1.0	3.8	4.6	4.5	3.8	4.2	3.9	4.0	3.9
STABIL.																								
RATIO																								
MEAN	3.4	2.6	3.4	2.1	3.2	3.1	3.8	2.1	0.6	0.5	0.1	0.0	0.0	0.0	0.2	0.6	1.2	1.3	2.2	2.6	3.5	4.0	2.2	2.3
SIGMA	2.6	2.2	3.0	1.8	3.5	1.9	3.3	2.8	0.7	0.9	0.4	0.6	0.2	0.2	0.5	0.7	2.9	1.8	2.2	2.2	3.5	3.3	1.6	1.9
RADIA-																								
TION																								
MEAN	-14.1	-13.9	-13.8	-14.2	-14.7	-14.9	-12.4	14.6	27.3	38.4	48.0	47.6	44.4	30.1	18.6	8.2	12.2	12.7	13.4	13.4	12.0	13.2	12.2	13.1
SIGMA	4.4	4.8	4.8	4.0	3.5	3.5	4.8	3.6	6.0	7.0	5.9	9.1	6.7	9.5	7.3	5.7	6.0	6.0	5.5	5.5	5.9	5.6	6.0	5.7

TABLE 4.2-1D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	9			1					1	1	2	1				3		
A-B	85	3	2	1	1	1	3	1	1	2	6	7	7	10	20	14	6	
B	68		2		1	4	2	4	2	3	5	6	6	15	15	20	3	
B-C	25		1		1				2	1	4	4	2	1	7	2		
C	32								1	3		6		3	12	5	2	
C-D	2												1		1			
D1	37	2		1			4	2		3	4	4	2	5	6	5	3	
D2	40	2	2			1				2	2	4	4	6	11	7	2	
E	4												1		1			
F	64	1	3	1	1						1	2	14	33	6	6	2	
G	353	3	4	3					3	5	14	14	33	58	126	77	27	
LACK	5									2			1				2	

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TABLE 4.2-1E FREQUENCY DISTRIBUTION 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	56																			56
0.5-0.9		2	1	3	1	1	1	1	1	3	3	7	13	17	36	28	11	0		129
1.0-1.9		5	3	2		6	4	3	5	3	5	17	29	61	114	66	21			337
2.0-2.9		3	6	2		5	1	2	3	7	8	11	9	24	58	27	7			173
3.0-3.9			1	1	2	1		3	3	2	5	7	2	2	11	5	1			43
4.0-4.9			1	1								1	1		2					6
5.0-5.9																				0
6.0-6.9																				0
7.0-7.9																				0
8.0-8.9																				0
9.0-9.9																				0
10.0-																				0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTL	56	10	12	10	3	7	8	7	7	15	21	43	54	104	221	126	40	0	0	744
40M																				
-0.4	6																			6
0.5-0.9		1	2	1		1	1	1	1	4	2	7	11	18	18	15	2	0		21
1.0-1.9		3	1	1		2	4	4	1	6	6	9	16	31	42	21	9	1		104
2.0-2.9		5	1	1	1	1	3	2	3	6	6	9	16	31	42	21	14			161
3.0-3.9		5	5	2				1	4	5	5	3	16	39	59	40	7			191
4.0-4.9		2	4	1	1			2	3	2	5	6	4	19	41	29	4	1		124
5.0-5.9											1	5	7	9	15	16	1			54
6.0-6.9			1		1						6	2	3	2	11	8	1			35
7.0-7.9			1										2	5	2	2				10
8.0-8.9															1	1				4
9.0-9.9																				0
10.0-																				0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTL	6	13	17	6	3	4	8	10	11	17	31	32	61	122	196	133	38	0	34	744

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TABLE 4.2- 2A DAILY AVERAGES

DATE	AIR TEMP. C. DEG	HUMIDITY PERCENT	PRECIPITAT. MM	SOLAR RAD. CAL/SQCM/DAY	NET RAD. CAL/SQCM/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	4.1	**	8.0	73.8	-35.5	2.5	3.8	4.1
2	5.3	**	0.5	280.2	-76.9	1.6	1.7	2.9
3	5.1	**	0.0	326.4	-131.5	2.0	2.8	3.5
4	6.1	**	0.0	319.2	-144.7	2.5	2.7	4.0
5	5.2	**	18.0	57.6	-31.9	3.8	7.0	7.0
6	2.8	**	0.0	204.0	-183.7	2.0	2.0	2.9
7	1.4	**	0.0	390.6	-263.5	3.6	4.2	5.4
8	1.4	**	0.0	317.4	-198.7	1.9	1.8	2.9
9	3.0	**	0.0	311.4	-173.5	2.1	2.6	2.9
10	3.4	**	0.0	375.6	-147.7	2.0	2.1	3.2
11	3.0	**	0.0	378.0	-256.2	3.2	4.0	5.5
12	-0.9	**	0.0	397.8	-286.9	2.7	3.5	5.4
13	-2.3	**	0.0	**	-241.8	1.8	2.9	3.4
14	1.7	**	0.0	296.2	-116.5	1.5	1.9	2.6
15	9.9	**	0.0	194.4	-7.9	2.5	3.0	3.6
16	8.0	**	3.5	50.4	-30.1	4.2	6.7	7.6
17	7.5	**	1.5	280.2	-61.2	2.4	3.7	4.3
18	8.9	**	5.5	34.2	-10.9	2.3	2.6	3.5
19	8.1	**	2.0	172.8	-31.3	3.5	4.6	5.0
20	3.1	**	0.5	171.0	-120.1	3.0	3.3	4.4
21	3.4	**	0.0	429.6	-156.7	2.2	3.3	3.6
22	4.4	**	0.0	174.6	-82.9	1.0	1.3	2.0
23	7.1	**	28.5	90.6	-54.1	2.4	4.3	4.4
24	5.3	**	0.0	391.2	-232.3	2.6	3.5	5.7
25	3.1	**	0.0	432.6	-196.9	1.6	2.1	2.4
26	4.9	**	0.0	401.4	-142.9	1.6	1.7	2.4
27	6.6	**	0.0	361.2	-171.1	2.0	3.0	3.4
28	9.8	**	0.0	136.2	-45.1	3.6	5.7	5.5
29	**	**	41.5	39.6	-24.7	5.0	7.8	**
MONTH	4.6	**	109.5	252.7	-125.9	2.5	3.4	4.1
LACK	57	696	0	10	1	12	11	44

TABLE 4.2- 2B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	MNW	NW	MNW	N
10M	5.9	4.8	11.5	10.4	3.1	1.9	1.3	2.5	2.8	2.5	2.6	5.4	2.9	6.3	15.3	15.9	5.0
40M	1.5	7.7	12.0	6.7	4.3	1.8	2.5	4.3	2.0	2.3	3.4	2.8	3.1	6.8	14.6	17.1	7.2

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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	1.7	1.6	1.7	1.4	1.9	2.3	2.1	2.8	2.8	3.0	3.3	3.7	3.6	3.9	3.5	3.1	2.9	2.5	2.3	2.4	2.1	2.1	2.2	2.1	2.1
SIGMA	1.2	1.1	1.2	1.1	1.5	1.5	1.2	1.6	1.5	1.8	1.6	1.6	1.2	1.5	1.4	1.3	1.4	1.4	1.4	1.4	1.2	1.4	1.3	1.3	1.3
20M																									
MEAN	2.6	2.7	2.7	2.3	2.7	3.4	3.0	3.7	3.8	3.9	4.2	4.7	4.5	4.9	4.3	4.1	3.9	3.6	3.3	3.4	2.8	2.9	3.0	2.8	2.8
SIGMA	2.0	1.6	1.8	1.7	1.5	2.1	1.7	2.4	2.2	2.6	2.6	2.4	2.3	2.3	2.5	2.5	2.6	2.0	2.4	2.0	1.9	2.2	1.9	2.1	2.1
40M																									
MEAN	3.3	3.4	3.7	3.0	3.7	4.4	4.1	4.6	4.5	4.3	4.6	5.1	4.6	5.2	5.0	4.3	4.2	4.1	3.8	3.9	3.5	3.3	3.3	3.5	3.5
SIGMA	1.2	1.1	1.5	1.3	1.5	2.2	1.8	2.4	2.9	3.1	2.9	2.7	2.3	2.5	2.5	2.2	2.2	1.9	2.3	1.8	1.8	1.9	1.8	1.7	1.7
TEMPERATURE																									
MEAN	2.0	1.7	1.2	1.1	1.0	1.2	1.9	3.7	5.5	7.3	8.1	8.4	8.3	8.4	8.2	7.9	6.9	5.9	5.2	4.7	3.9	3.2	2.8	2.5	2.5
SIGMA	4.1	4.2	4.1	4.3	4.5	4.4	4.3	3.5	2.8	2.6	2.6	2.7	2.6	2.8	2.7	2.9	2.8	3.1	3.4	3.5	3.5	3.8	3.9	4.0	4.0
HUMIDITY																									
MEAN	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
SIGMA	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
LAPSE RATE																									
MEAN	3.1	2.8	3.5	3.9	2.0	3.1	3.1	0.8	0.1	-0.0	-0.3	-0.4	-0.2	-0.3	0.0	0.5	0.9	1.7	2.5	2.4	2.9	3.5	2.8	2.6	2.6
SIGMA	3.6	3.5	3.7	3.2	2.7	3.2	3.5	1.1	0.7	0.8	0.6	0.6	0.9	0.7	0.6	0.9	1.5	2.7	3.8	3.4	4.0	4.6	3.6	3.0	3.0
STABIL. RATIO																									
MEAN	0.9	0.8	1.5	1.7	0.8	0.8	1.2	0.3	0.1	0.0	0.0	0.1	-0.0	0.1	0.0	0.1	0.3	0.3	1.0	1.2	1.3	1.9	1.2	1.1	1.1
SIGMA	1.2	1.1	1.8	2.1	0.9	1.0	1.9	0.7	0.3	0.2	0.3	0.1	0.3	0.1	0.1	0.2	0.8	0.8	2.9	2.6	2.3	3.2	2.1	1.7	1.7
RADIATION																									
MEAN	-8.5	-8.5	-8.1	-7.6	-8.3	-9.0	-5.8	12.5	23.9	22.5	38.6	41.9	39.5	30.7	23.0	10.3	-8.7	-9.6	-9.2	-9.0	-8.8	-8.5	-8.0	-8.3	
SIGMA	6.6	7.1	6.4	6.9	7.1	7.3	6.6	9.3	14.4	19.9	22.7	24.0	22.7	18.5	12.1	6.2	6.5	7.2	7.2	7.3	7.2	7.4	7.2	7.1	7.1

TABLE 4.2- 2D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK						
A	7																							
A-B	26					1	1	1	2	2	1	3	3	2	1	5	2							
B	44		4	4	4	2	3	7	4	1	1	2	1	1	6	3	1							
B-C	14		1	1	1	1	1	1	4	1	1	1	1	1	2	1								
C	54	1	2	7	2	2	1	2	5	1	1	4	1	1	4	16	5							
C-D	14		3	2	2	2				1	2	1	1	1	1	3	1							
D1	90	6	18	32	1	1		2	2	4	5	3	2	3	4	7								
D2	152	10	30	26	8	1		1	1	6	15	4	16	21	9									
E	66		5	1	3	1				1	1	1	1	1	1	10	2							
F	66		8	8	1	2	1			1	1	1	1	6	16	14	5							
G	190	8	9	1	1	3	4	7	2	4	2	6	7	15	49	54	18							
LACK	13																							

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

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL	
-0.4	40																		0	40
0.5-0.9		2	7	3	1	1	1	1	1	1	2	5	1	3	11	14	5	0	47	
1.0-1.9		7	18	8	5	4	7	6	2	6	2	7	11	21	56	43	14	5	194	
2.0-2.9		15	35	18	10	7	10	10	5	5	1	7	6	14	26	25	9	14	159	
3.0-3.9		5	28	13	13	3	1	4	7	1	6	6	1	3	5	12	3	3	121	
4.0-4.9		3	21	22	2	2	4	4	4	3	5	5	1	3	1	7	3	5	75	
5.0-5.9			2	10							2	4	1	1	3	7		7	29	
6.0-6.9		1	2	3							2	2	1	1	3	3		3	15	
7.0-7.9			1	2															3	
8.0-8.9																			1	
9.0-9.9																			1	
10.0-																			0	
LACK		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	11	12
TOTL	40	33	79	71	21	13	9	17	19	17	18	37	20	43	105	109	34	11	696	
40M	10																		0	10
-0.4																				
0.5-0.9		2		1	1	1	1	1	1	1	2	2	2	2	1	2	2	2	0	10
1.0-1.9		5		2	2	3	6	6	4	3	4	3	4	7	17	10	7	7	17	
2.0-2.9		15	5	1	2	8	10	10	4	3	3	2	3	13	35	14	15	7	71	
3.0-3.9		8	13	3	3	5	4	6	1	4	2	6	3	12	14	30	9	9	135	
4.0-4.9		11	12	12	4	1	1	4	4	2	6	6	6	6	16	18	5	5	123	
5.0-5.9		3	17	7	11	2		1	4	2	1	1	1	2	3	7	6	6	111	
6.0-6.9		1	11	8	5				4	2	2	1	1	3	3	12	1	1	68	
7.0-7.9		2	6	5	2					1	2	1	1	1	1	8	1	1	45	
8.0-8.9		3	12	4							2			4	4	4	1	1	27	
9.0-9.9			1	3							1			1	1	1	1	1	28	
10.0-																			8	
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	9	
TOTL	10	50	78	44	28	12	16	28	13	15	22	18	20	44	95	111	47	44	44	44

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TABLE 4.2-3A DAILY AVERAGES

DATE	AIR TEMP. C-DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SQCM/DAY	NET RAD. CAL/SQCM/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	**	**	1.0	318.0	-63.1	2.7	3.4	**
2	3.9	**	5.5	142.4	-37.9	1.9	3.2	2.9
3	3.6	**	0.0	340.2	-132.1	1.6	2.0	2.2
4	4.8	**	0.0	422.6	-211.9	1.4	2.6	3.3
5	5.0	**	0.0	282.0	-105.7	1.4	1.5	2.4
6	6.5	**	0.0	440.4	-209.5	1.5	3.0	3.4
7	7.8	**	0.0	267.0	-144.7	1.5	2.5	3.1
8	7.9	**	0.0	345.0	-158.5	1.2	2.6	2.8
9	9.5	**	0.0	178.8	-123.1	1.7	2.5	2.6
10	7.7	**	0.0	108.6	-82.9	1.9	6.5	7.0
11	9.0	**	0.0	456.6	-104.5	1.9	3.1	3.3
12	11.4	**	3.0	151.2	-100.3	1.0	2.1	2.5
13	6.6	**	0.0	459.6	-160.7	2.1	3.4	3.9
14	5.6	**	0.0	454.2	-203.5	1.7	3.2	3.5
15	8.7	**	8.5	277.2	-71.5	1.3	2.1	2.6
16	7.6	**	0.0	451.8	-137.5	1.4	2.6	2.9
17	6.9	**	5.0	94.2	-25.3	2.4	4.9	4.9
18	12.8	**	0.5	451.8	-73.3	1.9	3.7	3.7
19	6.2	**	3.5	64.8	-52.3	1.6	2.9	**
20	3.4	**	0.0	342.6	-154.9	1.6	3.1	**
21	3.2	**	0.0	505.8	-240.1	2.1	3.7	**
22	4.6	**	0.0	474.0	-193.9	1.6	3.3	**
23	4.5	**	1.0	447.6	-174.1	2.9	3.5	3.8
24	5.3	**	0.0	490.8	-178.3	1.5	2.7	3.5
25	5.6	**	0.0	428.4	-144.7	2.2	2.7	3.3
26	6.3	**	1.5	163.8	-45.7	2.0	3.4	3.6
27	8.4	**	25.5	135.6	-116.5	2.2	3.4	3.8
28	7.9	**	0.0	443.4	-212.5	2.0	3.1	3.4
29	6.9	**	0.0	112.2	-65.5	2.1	3.4	3.5
30	12.0	**	22.0	112.8	-19.3	2.4	3.9	4.4
31	9.4	**	0.0	180.0	-72.7	2.7	3.5	3.5
MONTH	7.0	**	77.0	308.2	-123.8	1.8	3.2	3.5
LACK	14	744	0	0	0	0	0	110

TABLE 4.2-3B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

10M 40M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
	7.4	8.5	18.3	4.6	3.1	1.7	2.0	2.2	2.7	2.2	1.6	2.2	3.1	5.4	16.1	11.7	7.4
	1.6	12.5	17.3	5.9	3.3	2.5	2.2	3.7	2.8	1.8	3.4	2.7	1.5	4.5	12.2	13.2	8.9

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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	1.3	1.4	1.4	1.5	1.6	1.6	1.7	2.0	2.1	2.3	2.3	2.2	2.5	2.6	2.5	2.5	2.1	1.7	1.6	1.6	1.5	1.5	1.5	1.4
SIGMA	0.9	1.0	0.8	0.9	1.0	0.8	0.9	1.0	1.0	0.9	0.9	0.8	1.0	1.0	1.2	1.6	1.2	1.2	1.1	1.2	0.9	1.0	0.9	1.2
20M																								
MEAN	2.2	2.1	2.2	2.5	2.7	2.8	2.9	3.1	3.6	4.0	3.9	3.9	4.1	4.2	4.1	4.1	3.7	3.4	2.9	2.7	2.8	2.6	2.8	2.5
SIGMA	1.2	1.4	1.7	1.5	1.5	1.3	1.5	1.8	1.8	1.8	1.9	1.7	1.9	2.0	1.9	2.3	2.0	1.9	1.7	1.7	1.3	1.5	1.2	1.6
40M																								
MEAN	2.8	3.0	3.4	3.6	3.9	3.7	3.5	3.4	3.4	3.7	3.8	3.8	4.0	4.0	3.8	3.8	3.8	3.2	3.0	3.0	3.5	3.1	2.9	3.2
SIGMA	1.5	1.4	1.6	1.7	1.6	1.4	1.4	1.7	1.8	1.9	2.2	1.8	2.2	2.1	2.0	2.4	2.3	2.0	1.6	1.5	1.8	1.5	1.3	1.6
TEMPERA-																								
TURE																								
MEAN	4.1	3.7	3.5	3.5	3.6	3.5	4.6	6.5	8.2	9.2	10.0	10.3	10.7	10.9	10.7	10.3	9.5	8.2	7.5	6.8	6.0	5.5	5.0	4.6
SIGMA	3.3	3.5	3.5	3.8	3.7	3.8	3.1	2.6	2.5	3.0	3.0	3.1	3.3	3.2	3.1	3.0	2.9	2.7	2.6	2.6	3.0	3.2	3.4	3.3
HUMIDITY																								
MEAN	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
SIGMA	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
LAPSE																								
RATE																								
MEAN	3.5	3.4	3.5	3.7	3.2	3.2	1.9	0.5	0.0	-0.2	-0.2	-0.3	-0.3	-0.4	-0.1	0.1	0.5	1.7	2.8	3.2	3.5	2.8	2.8	2.7
SIGMA	4.1	4.3	4.3	4.3	3.7	4.0	3.4	0.8	1.0	1.1	1.1	1.0	0.6	0.7	0.7	0.7	0.9	2.8	3.6	3.9	4.3	3.7	3.3	3.8
STABIL.																								
RATIO																								
MEAN	1.7	1.2	1.8	1.8	1.2	1.6	0.8	0.2	0.0	-0.0	-0.0	0.0	-0.0	-0.1	0.0	0.0	0.1	0.2	0.9	1.0	1.4	1.2	0.7	1.3
SIGMA	2.0	2.5	2.3	2.7	1.4	2.0	1.6	0.4	0.3	0.4	0.3	0.6	0.2	0.2	0.2	0.2	0.3	0.4	1.6	2.7	3.3	2.4	0.8	2.1
RADIA-																								
TION																								
MEAN	-8.2	-8.3	-8.4	-8.8	-8.4	-7.2	-1.6	20.3	35.4	41.9	48.7	43.3	41.6	37.9	27.5	11.7	-6.0	-10.4	-9.3	-9.6	-11.0	-9.4	-8.8	-8.3
SIGMA	6.2	6.3	6.4	5.9	5.9	5.5	2.3	13.0	20.4	24.8	28.0	24.7	23.4	19.6	15.7	9.2	4.6	5.7	5.3	5.5	9.5	5.7	5.6	6.0

TABLE 4.2-3D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	16	1		1			1		1		1		2	1	4	3		
A-B	80	3	1	3	10	7	5	5	4	1	3	3	3	5	12	12	6	
B	64		7	5	2	2	5	5	4	2	3	5	2	2	7	7	6	
B-C	13		2	2				2	2	2	1	1	1		1		1	
C	31	3	12	2	1	1	1		4	1	1	1	1	1	1	2	1	
C-O	4		2		1				1									
D1	71	3	29	6	5	2	2		4	5	1	1	2	3	4	3	2	
D2	112	9	35	7	7		1		1	1	1	2	2	18	23	12	4	
E	34	10	17	2					2						2	3		
F	76	15	16	7	1	1	3	1	2	3	1	1	1	3	14	5	7	
G	243	24	16	1	4	3	4	4	4	3	3	3	13	15	64	52	30	
LACK																		

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

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
-0.4	55																	0	55
0.5-0.9		5	8	1	1	3	1	4	1	2	2	3	4	10	33	21	14		113
1.0-1.9		22	18	10	9	1	8	3	4	2	3	4	13	21	55	43	21		237
2.0-2.9		29	63	13	10	8	6	8	6	8	3	5	5	8	28	22	16		238
3.0-3.9		5	33	5	2	1	1	1	7	3	2	4	1	1	4	1	4		74
4.0-4.9		2	12	4	4	1			2	1	1								23
5.0-5.9			1	1															2
6.0-6.9										1									1
7.0-7.9																			0
8.0-8.9			1																1
9.0-9.9																			0
10.0-																			0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTL	55	63	136	34	23	13	15	16	20	16	12	16	23	40	120	87	55	0	744

40M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
-0.4	10																	0	10
0.5-0.9		2	2	3	2	1	2	1	5	2	1	2	1	2	2	1	4		21
1.0-1.9		11	3	6	5	4	5	4	2	3	2	5	2	5	10	14	12		87
2.0-2.9		16	10	6	5	8	5	4	2	3	8	3	2	13	29	31	15		160
3.0-3.9		20	20	4	5	1	4	3	4	2	1	5	3	8	25	21	9		136
4.0-4.9		19	26	10	3	2	8	4	4	4	3	2	2	8	10	10	10		109
5.0-5.9		6	16	7	2	2	2	2	3	1	4	1	1	2	4	4	6		53
6.0-6.9		2	12	3	2	2			1	0	2		1		1	1			26
7.0-7.9			11	3	1						1		1			1			16
8.0-8.9			8								1					1			10
9.0-9.9			1	2							1					1			5
10.0-																			1
LACK		8	7	2	2	1	0	2	0	0	0	0	0	2	6	4	4		72
TOTL	10	84	116	40	22	17	15	25	19	12	23	18	10	30	82	89	60	72	744

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TABLE 4.2- 4A DAILY AVERAGES

DATE	AIR TEMP. C. DEG	HUMIDITY PERCENT	PRECIPITATION PERCENT	SOLAR RAD. CAL/SQCM/DAY	NET RAD. CAL/SQCM/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	6.5	**	3.5	234.6	-36.0	2.3	3.8	4.2
2	9.7	**	6.0	444.0	-51.6	1.5	2.3	3.0
3	6.5	**	0.0	108.0	-46.2	1.7	1.9	2.7
4	7.1	**	0.0	264.6	-84.6	1.8	2.8	3.7
5	6.8	**	0.0	579.0	-175.2	1.7	2.2	2.8
6	10.8	**	3.5	191.4	-34.2	2.6	5.1	5.6
7	9.6	**	15.0	636.0	-174.0	3.0	4.1	5.9
8	7.2	**	0.0	508.8	-160.2	1.6	1.7	3.1
9	5.9	**	0.5	271.2	-69.0	1.5	1.2	2.1
10	6.9	**	0.0	475.2	-125.4	2.3	3.7	4.7
11	**	**	0.0	603.6	-176.4	2.3	2.9	4.3
12	13.8	**	0.0	181.8	-102.6	1.3	2.4	3.3
13	12.4	**	0.0	372.0	-43.2	1.7	2.2	2.9
14	16.9	**	20.0	48.4	-12.6	2.5	4.1	5.0
15	12.9	**	5.0	340.2	-94.8	2.3	2.6	3.4
16	13.0	**	0.0	499.2	-53.4	2.3	3.2	4.0
17	13.4	**	2.0	513.0	-60.0	2.4	3.8	4.5
18	11.1	**	0.0	**	-138.4	1.4	4.5	5.2
19	11.9	**	0.0	209.4	-120.6	1.3	1.7	2.2
20	15.8	**	0.5	250.2	-18.6	1.4	3.0	3.6
21	17.3	**	10.0	234.0	-34.2	2.3	3.4	3.2
22	12.6	**	6.5	400.2	-40.2	2.9	7.0	7.2
23	14.2	**	2.5	171.0	-21.6	1.9	1.7	2.3
24	12.5	**	14.5	48.6	-13.2	2.8	6.1	6.5
25	11.9	**	0.5	268.2	-19.8	2.7	3.5	4.0
26	13.2	**	0.0	272.4	-81.6	1.3	2.3	2.7
27	15.2	**	0.0	562.8	-79.2	2.2	3.1	3.6
28	15.0	**	0.0	668.4	-62.4	1.9	2.8	3.7
29	18.2	**	0.0	376.2	-72.6	1.8	2.9	2.6
30	12.2	**	11.0	100.8	-30.0	2.7	3.1	3.7
MONTH	11.6	**	101.0	340.9	-73.8	2.0	3.2	3.8
LACK	27	720	0	13	4	0	0	7

TABLE 4.2- 4B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

CALM	MNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	MNW	NW	NNW	N
10M	9.2	3.4	16.4	7.8	2.8	0.8	1.8	3.3	6.7	5.1	2.9	3.1	5.0	13.2	7.0	4.2
40M	1.1	5.9	13.7	7.4	3.2	2.4	1.9	5.1	8.0	6.6	4.3	1.9	4.9	10.2	10.0	6.7

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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	1.4	1.5	1.5	1.6	1.5	1.4	1.5	1.9	2.5	2.7	2.6	2.8	3.1	2.9	3.1	2.9	2.6	2.2	1.8	1.7	1.6	1.4	1.3	1.5	1.5
SIGMA	1.1	1.1	0.9	1.1	1.1	1.0	1.3	1.3	1.2	1.0	1.1	1.0	0.9	0.9	1.4	1.4	1.4	1.3	1.2	1.4	1.3	1.2	1.0	0.9	0.9
20M																									
MEAN	2.6	2.4	2.6	2.6	2.5	2.3	2.4	2.9	3.5	3.9	3.9	4.2	4.5	4.4	4.5	4.3	4.2	3.3	3.3	2.8	2.7	2.1	2.0	2.1	2.1
SIGMA	1.9	1.9	1.7	1.6	1.8	1.8	2.3	2.6	2.4	2.2	2.3	2.3	1.9	2.0	2.0	2.1	2.4	2.2	2.5	2.4	2.3	1.8	1.8	1.8	1.8
40M																									
MEAN	3.6	3.5	3.3	3.5	2.9	3.0	2.8	3.1	3.9	4.3	4.2	4.6	4.9	4.8	4.8	4.9	4.7	4.1	4.0	3.6	3.4	3.0	3.2	3.3	3.3
SIGMA	2.5	1.5	1.7	1.5	1.5	1.5	2.3	2.5	2.3	2.3	2.6	2.6	2.2	2.1	2.3	2.4	2.5	2.4	2.4	2.3	2.2	1.7	1.9	1.5	1.5
TEMPERA-																									
TURE																									
MEAN	9.2	9.1	8.9	8.7	8.5	8.9	10.5	11.8	12.9	13.8	14.1	14.4	14.5	14.5	14.5	13.9	13.3	12.5	11.8	11.3	11.0	10.6	10.2	9.9	9.9
SIGMA	4.2	4.3	4.5	4.5	4.7	4.8	4.1	3.9	4.0	3.9	4.0	3.9	3.9	3.9	4.2	4.0	3.7	3.8	3.8	3.6	3.9	3.9	3.8	4.1	4.1
HUMIDITY																									
MEAN	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
SIGMA	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
LAPSE																									
RATE																									
MEAN	2.6	2.0	2.0	2.5	2.8	2.4	1.0	0.4	-0.0	-0.3	-0.4	-0.7	-0.6	-0.4	-0.3	0.0	0.2	0.6	1.2	1.7	2.1	2.1	2.0	2.1	
SIGMA	3.3	2.0	1.9	2.6	2.8	2.7	1.4	0.7	0.5	0.6	0.8	1.0	0.7	0.7	0.5	0.5	0.6	0.9	1.9	2.5	2.6	2.9	3.0	2.5	
STABIL.																									
RATIO																									
MEAN	0.8	0.6	0.6	0.7	0.6	1.5	0.4	0.1	0.0	-0.0	-0.0	-0.1	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.2	0.5	0.8	0.7	0.7	0.4	
SIGMA	1.7	1.0	0.7	1.1	1.1	2.3	0.9	0.5	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.9	1.9	1.5	1.5	0.6	
RADIA-																									
TION																									
MEAN	-6.4	-5.6	-5.8	-5.7	-5.7	-1.3	11.8	22.1	36.9	44.2	46.0	47.9	41.8	37.8	28.9	18.0	6.2	-7.4	-6.3	-5.8	-5.1	-5.5	-6.8	-6.3	
SIGMA	5.9	5.9	5.3	4.7	4.9	2.1	11.8	17.2	23.6	25.5	28.4	30.6	26.1	25.7	18.6	11.3	6.5	6.6	6.5	5.6	5.2	5.5	6.0	6.1	

TABLE 4.2- 4D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	9				2	1	1	1	1						2	1		
A-B	45		3	1	5	2	5	4	5		3	3	2	3	5	5	1	3
B	82		8	11	6	2	4	11	7	2	7	2	2	5	7	5		5
B-C	16		6	4				1		3		2						
C	56		10	10	1		1	3	13	3	4	1	1	1	6	1		2
C-D	10		3	1					4	1					1			
D1	99		3	24	6		2		8	20	7	3	6	3	10	5	1	1
D2	134		4	31	8	1			6	15	11	3	10	10	12	10	12	1
E	42		4	18	4				3	1	1	1	1	1	1	5	3	1
F	31		7	2					2	2			3	3	11	1	2	3
G	179		16	6	5	2		4	1	5	6	9	7	21	51	34	11	1
LACK	17		3	3	6	3			1									

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

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL	
-0.4	66																		66	
0.5-0.9		5	6	1	3	1			2	5	6	6	8	15	21	16	9		0	66
1.0-1.9		12	6	5	7	2	5	5	5	8	12	9	12	15	46	23	10	1	1	104
2.0-2.9		6	43	23	9	1	6	13	12	14	17	2	1	6	19	7	10	7	7	196
3.0-3.9		1	37	19	1	2	2	5	11	19	1	3			2	2	1	1	1	107
4.0-4.9			20	6				13	4	4		1	1		4				4	49
5.0-5.9			4	1				4	1	1					2	2			14	14
6.0-6.9									1										1	1
7.0-7.9																			0	0
8.0-8.9																			0	0
9.0-9.9																			0	0
10.0-																			0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTL	66	24	116	55	20	6	13	23	48	51	36	21	22	36	94	50	30	9	9	720

40M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL	
-0.4	8																		0	8
0.5-0.9		1	4	1	4	3	2	7	5	3	9	3	2	9	16	9	12	1	1	21
1.0-1.9		6	4	4	3	3	6	11	8	6	8	7	1	13	12	20	16	13	13	116
2.0-2.9		14	7	4	4	4	3	5	6	4	7	7	2	5	15	14	7	17	17	157
3.0-3.9		8	6	6	4	4		5	6	4	7	7	2	5	15	14	7	17	17	120
4.0-4.9		6	17	11	3	4		5	7	8	9	2	1	3	11	6	4	19	19	116
5.0-5.9		2	18	9	3	1		1	6	11	5	1			1	5	1	5	5	69
6.0-6.9			8	4	3			2	3	5	2				1	1	2	4	4	34
7.0-7.9			8	4				1	4	5	1					1		5	5	28
8.0-8.9			7	1					2	5					2	3		1	1	16
9.0-9.9			6	3				1	1	1					2	2		1	1	12
10.0-			2	4					2	2					0	0		0	0	7
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
TOTL	8	37	87	47	20	15	12	32	41	51	41	27	12	31	64	63	42	90	90	720

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TABLE 4.2- 5A DAILY AVERAGES

DATE	AIR TEMP. C. DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SQCM/DAY	NET RAD. CAL/SQCM/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	12.6	**	11.5	48.6	-27.0	4.3	5.5	5.6
2	12.0	**	0.0	420.0	-47.4	3.2	4.7	5.5
3	9.8	**	0.0	131.4	-0.6	3.7	6.8	6.9
4	12.2	**	0.5	241.8	-40.2	3.4	5.6	6.3
5	12.5	**	3.0	64.8	-24.6	1.2	2.7	2.4
6	12.9	**	3.0	589.8	-83.4	1.9	2.2	2.0
7	11.7	**	12.5	612.6	-73.2	1.5	3.1	2.9
8	12.9	**	0.0	597.6	-57.6	2.0	1.8	2.4
9	14.3	**	5.0	579.6	-110.4	1.4	2.9	3.1
10	14.7	**	0.0	632.4	-131.4	1.8	2.3	2.4
11	16.3	**	0.0	463.2	-133.2	2.5	4.2	4.5
12	18.3	**	0.0	288.6	-60.6	3.0	3.9	4.9
13	19.4	**	0.0	601.8	-138.6	2.5	4.0	4.9
14	15.1	**	0.0	694.8	-196.2	2.6	3.0	3.8
15	16.6	**	0.0	657.6	-100.8	2.6	3.9	4.2
16	16.4	**	0.0	333.6	-55.2	2.1	2.8	3.5
17	16.4	**	32.0	531.6	-82.8	1.8	3.0	3.3
18	18.2	**	0.0	531.6	-82.8	2.7	3.3	4.1
19	16.1	**	4.5	246.0	-121.2	1.3	3.5	3.3
20	13.4	**	0.0	**	**	3.2	6.1	6.6
21	14.5	**	17.5	**	-21.8	1.1	2.2	2.1
22	17.5	**	5.5	476.4	-75.0	1.5	1.7	2.1
23	16.1	**	6.0	150.0	-48.0	1.6	2.7	2.7
24	18.0	**	0.0	675.0	-46.8	2.3	2.4	2.6
25	18.9	**	64.0	84.6	-13.8	1.5	3.1	2.7
26	20.7	**	17.0	488.4	-18.6	2.2	2.8	3.0
27	15.9	**	76.0	327.6	-84.0	3.0	4.7	5.2
28	17.9	**	0.0	666.0	-97.2	2.6	3.3	3.8
29	20.5	**	0.0	520.8	-29.4	1.5	3.1	3.0
30	17.7	**	0.0	455.4	-5.4	4.0	6.1	6.6
31	18.8	**	0.0	510.0	-16.2	1.6	1.8	2.4
MONTH	15.8	**	259.0	433.1	-68.9	2.3	3.5	3.9
LACK	0	744	0	19	13	0	0	6

TABLE 4.2- 5B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	9.7	1.9	16.9	11.0	5.0	2.2	2.6	1.6	7.4	8.3	6.3	5.4	3.5	5.0	9.1	3.2	0.9
40M	1.6	4.1	14.2	12.2	5.8	1.2	2.8	5.4	8.4	7.6	6.6	4.3	4.7	5.7	8.0	6.5	0.7

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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=10H																								
MEAN	1.6	1.3	1.7	1.8	1.7	1.9	2.0	2.2	2.6	2.5	2.7	3.0	3.0	3.3	3.5	3.1	2.7	2.4	2.4	2.1	2.0	2.0	1.9	2.0
SIGMA	1.4	1.1	1.5	1.5	1.6	1.6	1.4	1.4	1.4	1.5	1.2	1.1	1.1	1.4	1.5	1.5	1.5	1.4	1.5	1.3	1.3	1.3	1.2	1.4
H=20H																								
MEAN	2.9	2.7	3.0	3.0	3.0	3.2	3.1	3.5	3.8	3.8	3.8	4.1	4.2	4.5	4.8	4.4	4.0	3.6	3.6	3.4	3.1	3.0	3.0	3.0
SIGMA	1.9	1.6	1.9	2.2	2.1	2.4	2.4	2.3	1.9	2.4	1.9	1.7	1.6	1.9	1.9	1.9	1.9	1.9	2.0	1.7	1.8	1.6	1.7	1.8
H=40H																								
MEAN	3.1	3.0	3.5	3.4	3.4	3.2	3.3	3.3	3.8	3.9	4.1	4.4	4.5	4.7	5.2	4.9	4.5	4.2	4.3	3.9	3.8	3.6	3.4	3.6
SIGMA	1.9	1.7	2.1	2.2	2.2	2.3	2.7	2.6	2.4	2.6	2.3	2.1	2.0	2.2	2.2	2.1	2.3	2.3	2.4	2.1	1.8	1.8	1.7	1.6
TEMPERATURE																								
MEAN	13.1	12.9	12.7	12.5	12.4	13.3	14.8	16.4	17.4	18.1	18.5	18.8	18.8	18.6	18.3	18.0	17.4	16.6	16.1	15.6	15.1	14.7	14.2	13.9
SIGMA	3.5	3.5	3.5	3.7	3.7	3.2	2.8	2.8	3.1	3.6	3.7	3.9	3.8	3.5	3.3	3.3	3.3	3.3	3.1	3.2	3.2	3.2	3.4	3.6
HUMIDITY																								
MEAN	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
SIGMA	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
LAPSE RATE																								
MEAN	2.0	2.0	2.2	2.3	2.4	1.1	0.5	-0.0	-0.2	-0.2	-0.5	-0.8	-0.7	-0.6	-0.4	-0.3	-0.1	0.4	1.0	1.5	1.5	2.0	2.0	2.0
SIGMA	2.6	3.0	3.4	3.0	3.1	1.7	1.0	0.8	0.6	0.8	0.9	0.8	0.8	0.7	0.7	0.5	0.5	1.0	1.8	2.4	2.6	2.8	2.8	2.7
STABIL. RATIO																								
MEAN	0.7	0.6	0.3	1.0	1.3	0.4	0.1	0.1	-0.1	-0.0	-0.1	-0.1	-0.0	-0.0	-0.0	0.0	0.0	0.1	0.2	0.4	0.2	1.0	0.8	1.0
SIGMA	1.1	1.0	0.7	1.8	2.9	0.9	0.3	0.3	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.1	0.1	0.4	0.4	1.0	0.4	2.4	1.7	1.8
RADIATION																								
MEAN	-6.3	-5.9	-5.9	-5.8	-3.7	-0.8	12.7	34.3	42.1	54.1	55.3	59.3	58.0	50.8	38.6	22.1	8.1	-4.1	-6.4	-6.1	-5.7	-5.5	-6.1	-6.5
SIGMA	5.6	5.2	5.2	5.2	4.1	1.9	13.9	20.0	25.8	29.1	29.8	31.5	28.8	25.3	21.0	15.0	7.9	4.6	5.9	6.1	5.6	5.7	5.7	5.7

TABLE 4.2- 5D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTAL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	25	2	1	1	3	4			1	2	5	1	1	2	1	1	1	
A-B	65		1	2	18	5	6	2	7	3	1	4	4	5	5	2	2	
B	70		3	2	5	3	6	4	21	4	8	5	2	4	2	1		
B-C	10		3	2	2			1	4									
C	42		10	9	9			1	6	7	3	2	1			1	1	
C-D	19		4	4	4				4	3	1	3						
D1	91	2	28	16	1	1	4	4	5	9	3	2	2	2	8	4	4	
D2	184	3	55	24	4	1	1	3	6	20	10	16	6	8	21	3	3	
E	25		8	8					4	4	1	1	1			1	2	
F	43		5	2					5	6	4	4	2	5	9	1	1	
G	138	4	11	5	6	3	1	1	7	10	6	13	16	33	15	7	7	
LACK	32		2	10	4		1		3	3	2		1	3	3	1	2	

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

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL	
-0.4	72																			72
0.5-0.9		3	1	2	3	2	1	1	1	6	6	9	12	4	13	7	3	0		72
1.0-1.9		7	16	13	9	4	4	4	4	16	16	10	9	21	31	12	3			73
2.0-2.9		6	18	22	16	2	7	4	22	14	13	10	3	12	20	3	3			183
3.0-3.9			48	26	6	2	5	2	21	11	10	4	1	2	2	1				139
4.0-4.9		1	26	19			1	1	5	6	2	7	1	2	2	1	1			72
5.0-5.9			11	5					2	5										24
6.0-6.9			3	1					4											8
7.0-7.9			1																	1
8.0-8.9																				0
9.0-9.9																				0
10.0-																				0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTL	72	14	126	82	37	16	19	12	55	62	47	40	26	37	68	24	7	0	0	744
40M																				
-0.4	12																			0
0.5-0.9		3	1	2	5	3	7	1	3	1	3	3	2	1	1	5	2			12
1.0-1.9		5	7	6	10	3	7	7	7	3	8	7	11	10	17	10	1			27
2.0-2.9		5	6	14	13	3	7	11	7	13	8	8	9	15	22	10	2			115
3.0-3.9		3	17	10	5	3	2	10	15	16	8	5	10	9	10	12				153
4.0-4.9		5	11	12	2	3	3	7	14	11	12	5	2	6	7	2				136
5.0-5.9		5	14	8	1		1	3	7	8	5	2	1	1	2	3				199
6.0-6.9		2	16	10	3				5	4	3	2		1	1	2				59
7.0-7.9		2	16	13	3				6		3	2		1	1	2				48
8.0-8.9			10	9	1			1	5		5			1	1	1				47
9.0-9.9			6	5					5							3				26
10.0-			1	1																14
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTL	12	30	105	90	43	9	21	40	62	56	49	32	35	42	59	48	5	6	6	744

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TABLE 4.2- 6A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMIDITY PERCENT	PRECIPIT. MM	SOLAR RAD. CAL/SQCM/DAY	NET RAD. CAL/SQCM/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	20.0	**	4.5	188.4	-0.6	0.7	1.3	1.2
2	21.5	**	1.5	562.8	-10.8	**	2.4	2.5
3	18.1	**	10.5	378.6	-21.0	2.3	2.7	2.9
4	16.7	**	6.0	196.8	-9.0	2.5	3.3	3.6
5	16.8	**	114.5	99.0	-15.6	3.0	4.1	4.9
6	17.5	**	17.5	485.4	-45.6	3.0	4.1	4.3
7	19.3	**	0.0	666.6	-70.8	1.6	2.2	2.4
8	20.4	**	0.0	312.8	-49.8	2.0	2.7	3.0
9	23.5	**	4.5	322.2	-36.6	2.7	4.1	5.0
10	20.1	**	12.0	102.6	-26.4	0.9	1.7	1.7
11	21.5	**	0.5	260.4	-15.6	3.0	5.2	5.7
12	17.7	**	1.0	157.2	-33.9	2.5	4.3	4.4
13	16.2	**	1.0	228.6	**	1.1	1.7	1.3
14	17.4	**	4.0	356.4	-67.5	1.1	3.4	4.4
15	16.8	**	11.5	408.0	-41.4	2.0	2.5	2.4
16	16.5	**	0.5	653.6	-91.8	2.3	2.3	2.8
17	17.6	**	0.0	572.4	-57.0	2.4	3.1	3.1
18	18.0	**	0.0	441.6	-54.6	2.9	3.9	3.8
19	18.0	**	0.0	280.8	-81.0	2.1	2.8	2.8
20	17.6	**	0.0	460.2	-37.2	2.7	4.1	4.0
21	17.5	**	0.0	565.8	-63.0	1.7	1.9	2.1
22	21.9	**	7.5	135.6	-28.8	2.1	2.5	3.1
23	21.7	**	0.5	681.6	-69.0	2.2	2.8	3.1
24	18.0	**	10.0	104.4	-31.2	2.7	3.4	4.3
25	18.2	**	10.0	175.8	-13.8	1.6	2.3	2.2
26	18.7	**	2.5	186.6	-34.8	2.0	2.9	3.0
27	21.7	**	0.0	651.0	-26.4	1.4	1.4	2.1
28	19.6	**	0.0	610.2	-59.4	2.1	2.5	2.6
29	18.3	**	24.0	589.8	-37.8	3.0	4.1	4.0
30	14.5	**	2.0	122.4	-38.4	3.7	6.2	7.3
MONTH	18.7	**	248.0	365.3	-39.6	2.2	3.1	3.3
LACK	6	720	0	12	19	25	0	0

TABLE 4.2- 6B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	10.1	1.9	17.0	25.0	13.4	3.4	4.5	3.2	3.9	3.3	1.4	3.6	1.9	1.6	3.3	2.3	0.3
40M	4.0	2.8	20.1	22.2	11.2	4.9	2.1	6.8	6.3	1.7	2.5	2.8	2.1	1.7	3.1	4.6	1.2

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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	1.3	1.2	1.4	1.4	1.8	2.1	2.0	2.2	2.4	2.7	2.9	2.9	2.8	3.1	2.8	2.7	2.5	2.6	2.4	2.1	2.0	1.8	2.1	1.9
SIGMA	1.3	1.2	1.5	1.7	1.6	1.3	1.2	1.3	1.3	1.2	1.2	1.1	1.1	1.2	1.1	0.8	0.8	1.1	1.0	1.1	0.9	1.2	1.5	1.5
20M																								
MEAN	2.2	2.0	2.1	2.4	2.7	2.9	2.7	3.1	3.3	3.6	3.8	3.8	3.6	3.9	3.8	3.9	3.4	3.6	3.3	3.0	2.8	2.7	2.5	2.4
SIGMA	2.2	2.0	1.8	2.2	2.1	2.0	1.7	1.8	2.0	2.0	1.9	1.6	1.6	1.9	1.6	1.4	1.2	1.4	1.5	1.5	1.2	1.5	1.9	2.1
40M																								
MEAN	2.6	2.4	2.6	2.9	3.1	3.3	3.0	3.4	3.6	3.7	4.0	4.0	3.8	4.1	3.8	3.9	3.7	3.7	3.5	3.3	3.0	3.1	3.1	2.7
SIGMA	2.4	2.2	1.9	2.3	2.3	2.3	1.9	2.1	2.5	2.5	2.3	2.1	2.0	2.5	2.0	1.6	1.5	1.8	1.6	1.6	1.4	1.6	2.2	2.3
TEMPERATURE																								
MEAN	17.5	17.4	17.4	17.2	17.3	17.8	18.7	19.5	20.1	20.1	20.4	20.4	20.4	20.3	20.2	19.9	19.5	18.9	18.3	18.0	17.8	17.7	17.5	17.4
SIGMA	2.0	1.9	1.9	1.8	1.7	1.5	2.1	2.7	3.1	2.9	2.9	2.8	2.9	3.1	2.8	2.4	2.3	2.3	2.1	2.1	2.1	2.3	2.2	2.2
HUMIDITY																								
MEAN	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
SIGMA	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
LAPSE RATE																								
MEAN	0.5	0.6	0.8	1.0	0.6	0.2	0.1	0.2	-0.1	-0.4	-0.5	-0.7	-0.6	-0.6	-0.4	-0.4	-0.5	-0.2	-0.1	0.2	0.3	0.5	0.6	0.6
SIGMA	1.0	1.2	1.4	1.5	1.1	0.6	0.7	0.9	0.7	1.1	0.7	0.8	0.6	0.8	0.6	0.6	0.6	0.6	0.6	1.0	1.1	1.3	1.1	1.1
STABIL. RATIO																								
MEAN	0.2	0.1	0.5	0.1	0.1	0.1	0.0	0.2	0.0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0	0.1	0.0	0.1	0.2
SIGMA	1.0	0.2	1.3	0.3	0.2	0.3	0.3	0.6	0.2	0.3	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.6	0.3	0.3	0.5
RADIATION																								
MEAN	-3.2	-2.9	-2.6	-3.3	-0.8	-1.0	19.0	24.4	34.0	44.4	42.1	48.6	50.8	38.8	29.5	19.7	6.4	5.4	-5.0	-4.8	-4.4	-4.0	-3.6	
SIGMA	2.3	2.5	1.9	2.5	1.2	1.9	13.3	17.0	23.2	27.8	28.8	30.1	30.3	23.8	19.6	12.1	7.9	5.7	4.0	3.9	3.5	3.0	2.4	

TABLE 4.2-6D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK					
A	11				3	3	1																
A-B	48		1	2	9	6	13	4	3				2	1	3	4							
B	83		6	21	26	8	11	4	4	1			1				1						
B-C	15		3	5	4	1	1	1	1														
C	62		10	26	8	1		4	1	5				1									
C-D	7																						
D1	109		14	39	11	1	3	9	5	4	4	10	3	1	2	2							
D2	154		6	35	45	18	4	5	2	6	2	3	5	3	5	6	7		2				
E	27		1	9	10	3		1	1	1	1	1	1	1	1	1							
F	35		2	11	13	2		1	1	3	1	1	1	1	1	1							
G	113		6	22	9	10	2	2	2	5	7	1	3	6	15	14			5				
LACK	56		1	10	8	3	2	2	3	1	1								1				24

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

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	MNW	N	LACK	TOTL	
-0.4	70																			70
0.5-0.9		4	2	4	9	3	3	2	3	5	2	2	5	6	11	8	2	0	0	69
1.0-1.9		3	32	16	30	12	13	2	2	7	4	4	4	2	12	8				149
2.0-2.9		6	46	73	33	5	13	12	12	6	2	2	3	1						214
3.0-3.9			25	67	20	4	2	5	6	1	3	2	1	2						138
4.0-4.9			9	11	1			1	3	4	2	9								40
5.0-5.9			1	1					1		1	6								10
6.0-6.9																				0
7.0-7.9			3	2																5
8.0-8.9																				0
9.0-9.9																				0
10.0-																				0
LACK		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
TOTL	70	13	118	174	93	24	31	23	27	23	10	25	13	11	23	16	2	24	24	720

40M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	MNW	N	LACK	TOTL	
-0.4	29																			29
0.5-0.9		2	5	4	3	2	2	6	3	1	1	2	3	1	5	2	2	0	0	29
1.0-1.9		4	13	7	9	11	7	7	7	4	1	2	5	9	11	17	1			43
2.0-2.9		6	22	34	27	15	3	16	8	5	3	2	3	2	6	11	3			115
3.0-3.9		5	31	36	24	5	2	13	13	5	5	1	1	2	3	11	3			166
4.0-4.9		2	38	38	10	1		4	7	2	1	2	1	1	3	3	3			142
5.0-5.9		1	21	21	1	1		1	3	2	1	1	1	1	1	1	1			104
6.0-6.9			6	9	3		1	1	3		1	1	1	1	1	1				53
7.0-7.9			3	4	2		1	1	1		1	2	1	2	2	2				25
8.0-8.9			1	4	1			2	1		2	1	1	1	1	1				15
9.0-9.9			1	2	1			2	1		2	1	1	1	1	1				9
10.0-			5	1				2	4		2	4	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	0	0	0
TOTL	29	20	145	160	81	35	15	49	45	12	18	20	15	12	22	33	9	0	0	720

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TABLE 4.2-7A DAILY AVERAGES

DATE	AIR TEMP. C. DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SQCM/DAY	NET RAD. CAL/SQCM/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	16.6	**	0.0	562.2	-126.0	3.1	4.6	4.2
2	17.3	**	0.0	672.6	-133.2	2.6	3.2	3.7
3	17.8	**	0.5	276.6	-55.8	3.6	5.6	6.6
4	18.6	**	1.0	353.4	-58.8	2.8	4.5	5.2
5	21.2	**	0.0	243.0	-52.8	1.0	0.8	1.3
6	**	**	0.0	329.4	-63.6	0.7	0.6	1.0
7	**	**	0.0	345.0	-81.0	1.7	1.5	2.3
8	21.8	**	0.0	654.6	-108.0	1.5	2.1	2.4
9	21.7	**	0.0	593.4	-136.2	2.4	2.5	3.4
10	22.5	**	0.0	369.6	-25.8	1.9	2.3	3.1
11	22.6	**	24.0	90.0	-15.6	3.8	3.8	4.6
12	22.7	**	29.5	120.6	-12.0	1.8	1.9	2.9
13	20.2	**	1.0	213.0	-11.4	2.9	3.8	4.5
14	19.0	**	0.5	298.2	-11.4	2.4	3.6	4.1
15	22.1	**	24.5	312.6	-43.8	1.1	1.1	1.4
16	20.2	**	3.5	192.6	-29.4	1.9	2.9	3.5
17	20.0	**	0.0	301.8	-28.2	2.2	2.9	3.1
18	18.9	**	46.0	141.0	-18.6	2.8	4.2	4.8
19	18.2	**	39.5	66.6	-21.0	3.3	5.2	5.3
20	18.9	**	0.0	421.2	-23.4	2.5	3.3	3.7
21	22.0	**	0.0	315.0	-55.2	2.1	2.1	2.7
22	24.4	**	0.0	531.0	-70.2	2.2	2.6	3.3
23	23.5	**	0.0	403.2	-79.8	2.0	2.5	2.9
24	24.0	**	0.0	556.8	-72.0	1.4	2.1	2.1
25	25.8	**	0.0	444.6	-70.8	2.0	2.2	3.1
26	25.0	**	0.0	663.6	-58.8	1.8	2.5	2.9
27	24.7	**	0.0	649.8	-69.0	2.7	2.7	2.9
28	25.0	**	0.0	642.6	-70.2	2.3	2.6	3.6
29	25.2	**	0.0	501.0	-86.4	1.9	1.6	2.1
30	25.6	**	0.0	405.0	-70.8	1.5	1.6	2.1
31	27.0	**	0.0	556.8	-87.6	1.5	2.2	2.8
MONTH	21.8	**	170.0	394.4	-59.6	2.2	2.8	3.3
LACK	37	744	0	0	0	5	9	9

TABLE 4.2-7B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NNW	N
10M	12.1	1.1	13.2	17.1	3.5	2.7	2.2	4.3	15.6	7.7	4.6	3.4	2.3	4.2	1.5	1.2
40M	3.8	2.6	12.1	17.3	3.0	2.4	1.5	7.5	13.6	10.7	6.7	3.8	4.5	3.1	3.0	1.1

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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	1.4	1.3	1.4	1.3	1.5	1.6	1.9	1.9	2.4	2.4	2.8	3.0	3.4	3.5	3.5	3.6	3.1	2.7	2.0	1.9	1.7	1.5	1.4	1.2
SIGMA	1.2	1.2	1.1	1.0	1.2	1.1	1.0	1.1	1.1	1.1	0.9	1.0	1.4	1.4	1.4	1.8	1.5	1.2	1.3	1.3	1.4	1.4	1.2	1.2
20M																								
MEAN	1.9	2.0	1.9	1.8	1.9	1.9	2.1	2.1	2.5	2.7	3.3	3.6	4.0	4.2	4.3	4.6	4.1	3.6	3.1	2.7	2.4	1.9	1.8	1.7
SIGMA	1.6	1.5	1.5	1.5	1.7	1.7	1.5	1.6	1.6	1.5	1.6	1.4	1.7	1.8	1.9	2.4	2.2	2.2	2.1	2.2	2.1	2.0	1.6	1.8
40M																								
MEAN	2.7	2.6	2.7	2.6	2.6	2.5	2.5	2.5	2.9	2.9	3.5	3.9	4.2	4.5	4.7	5.0	4.5	4.2	3.7	3.5	3.0	2.6	2.6	2.3
SIGMA	1.7	1.5	1.6	1.7	1.7	1.8	1.7	1.8	1.6	1.6	1.9	1.6	1.6	1.9	2.0	2.5	2.4	2.3	2.2	2.2	2.1	1.8	1.5	1.7
TEMPERATURE																								
MEAN	19.4	19.5	19.4	19.2	19.4	20.0	21.4	22.9	23.8	24.0	24.3	24.5	24.6	24.4	24.0	23.3	22.7	22.2	21.5	21.2	20.9	20.8	20.4	20.0
SIGMA	3.6	3.5	3.7	3.8	3.8	3.6	3.0	3.1	3.3	3.2	3.4	3.2	3.3	3.4	3.4	3.5	3.2	3.1	3.0	3.0	3.2	3.0	3.3	3.5
HUMIDITY																								
MEAN	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
SIGMA	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
LAPSE RATE																								
MEAN	1.3	1.5	1.4	1.4	1.0	0.6	0.2	-0.0	-0.2	-0.4	-0.9	-1.0	-1.0	-0.9	-0.8	-0.5	-0.3	0.2	0.5	0.7	0.9	0.9	0.7	1.0
SIGMA	1.5	1.8	1.6	1.8	1.4	1.1	1.0	0.9	0.9	0.9	1.1	1.2	1.0	0.7	0.7	0.6	0.7	0.8	0.9	1.2	1.3	1.1	1.0	1.3
STABILIZATION																								
MEAN	0.2	0.2	0.7	0.6	0.6	0.3	0.0	0.0	-0.0	-0.1	-0.1	-0.0	-0.1	-0.0	-0.1	-0.1	-0.0	0.0	0.1	0.2	0.2	0.2	0.1	0.3
SIGMA	0.4	0.4	1.4	1.0	1.5	0.7	0.4	0.3	0.3	0.2	0.1	0.3	0.1	0.2	0.1	0.1	0.1	0.1	0.2	0.6	0.3	0.3	0.2	0.9
RADIATION																								
MEAN	-4.8	-3.7	-3.5	-3.7	-1.7	-1.2	16.6	30.7	39.2	44.1	48.6	51.9	51.0	44.5	34.5	24.3	9.1	-2.4	-7.0	-7.0	-6.9	-6.2	-5.9	-5.6
SIGMA	3.4	3.0	3.0	2.6	2.1	1.7	9.5	19.7	22.1	24.5	27.1	26.1	25.2	26.3	20.9	14.1	9.6	2.9	4.7	4.7	4.2	3.8	3.8	3.7

TABLE 4.2-7D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNN	NW	NNW	N	LACK
A	12					4	2	1	1	1	1	1	1	1				
A-B	62	1	1	1	6	9	6	14	6	1	2	3	4	6			1	
B	78	5	18	5	3	3	2	5	25		4	3	2					
B-C	17	5	9	1					1		1					2	1	
C	76	1	17	15	2		2		30	4	3	1	1					
C-D	18		5	3					9	1								
D1	78	1	14	19	2	1	2	4	18	11	1	3	1	1	1			
D2	166	41	37	2	1	2	10	20	18	8	2	3	3	3	15	2	2	
E	21	3	6	6				3	1	1	1	1	1					
F	39	4	3	12	2	2	5	4	3	3	5	2	4	3	3		2	
G	177	4	4	8	6	6	5	4	7	23	19	13	13	24	20	13	8	
LACK																		

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

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	MNW	N	LACK	TOTL	
-0.4	90																		0	90
0.5-0.9		1	4	4	5	6	3	7	8	10	6	8	5	8	9	7	3		0	94
1.0-1.9		2	3	14	7	11	6	13	19	15	16	6	5	11	17	4	3			152
2.0-2.9		4	29	48	11	3	6	11	25	15	5	11	7	8	5		2			190
3.0-3.9		1	39	43	3		1	1	28	5	6						1			128
4.0-4.9			20	15					21	8	1									65
5.0-5.9			2	3					10	3										18
6.0-6.9			1						5											6
7.0-7.9																				0
8.0-8.9																				0
9.0-9.9										1										1
10.0-																				0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTL	90	8	98	127	26	20	16	32	116	57	34	25	17	27	31	11	9	0	0	744

40M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	MNW	N	LACK	TOTL	
-0.4	28																			0
0.5-0.9		2	1	3	3	6	1	6	1	4	5	2	9	2	1	3	2			28
1.0-1.9		1	7	11	11	7	7	17	16	17	11	13	9	11	8	8	2			48
2.0-2.9		2	6	10	8	1	2	18	16	20	16	5	10	7	9	8	1			148
3.0-3.9		1	12	18	8	2	1	8	16	25	6	6	4	1	5	3	2			139
4.0-4.9		3	32	28	2	2		3	18	3	4	1	1	2	1		1			118
5.0-5.9		7	17	20	1			2	15	4	4	1	1	2	1					101
6.0-6.9		2	6	15				4	14	4	6	1								73
7.0-7.9		1	5	12				1	14	4										41
8.0-8.9		1	3	6				1	4	1										24
9.0-9.9			3	3																10
10.0-			1	1																3
LACK		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2
TOTL	28	19	89	127	22	19	11	55	100	79	49	28	33	23	24	22	8	9	9	744

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TABLE 4.2- 8A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMID- ITY PERCENT	PRECIP- ITAT. MM	SOLAR RAD. CAL/SQCM/DAY	NET RAD. CAL/SQCM/DAY	WIND		
						SPD(10) M/S	SPD(20) M/S	SPD(40) M/S
1	26.2	**	0.0	550.8	-82.2	1.1	1.7	2.9
2	24.0	**	27.5	341.4	-43.8	1.0	1.2	1.9
3	21.6	**	26.5	176.4	-32.4	1.7	2.4	3.1
4	22.1	**	0.0	441.6	-98.4	1.2	1.8	2.5
5	22.6	**	0.0	279.6	-59.4	0.8	1.2	1.4
6	21.5	**	0.0	334.8	-26.4	3.0	4.5	5.8
7	21.1	**	9.0	336.0	-73.8	1.1	1.9	2.4
8	22.9	**	0.0	499.8	-81.0	1.1	2.0	2.0
9	23.8	**	3.0	178.2	-47.4	0.8	**	2.0
10	24.9	**	0.5	394.2	-73.8	0.9	1.7	2.4
11	23.8	**	0.0	564.6	-97.8	1.0	1.3	1.9
12	24.3	**	0.0	590.4	-90.0	1.7	2.3	2.8
13	24.6	**	0.5	459.0	-63.0	1.5	2.0	2.5
14	21.5	**	0.5	144.6	-44.4	3.0	4.3	5.6
15	19.7	**	5.0	108.0	-22.2	3.2	5.0	5.9
16	20.4	**	2.0	264.6	-31.2	2.0	2.5	3.2
17	20.9	**	0.5	450.1	-52.8	2.9	4.8	5.8
18	21.3	**	0.0	570.6	-88.2	1.2	1.5	2.1
19	23.0	**	0.0	540.6	-91.8	1.4	1.9	2.5
20	24.8	**	0.0	402.6	-79.2	1.4	2.3	2.9
21	26.0	**	0.0	479.4	-79.2	1.0	1.7	2.5
22	25.3	**	0.0	523.8	-90.0	1.0	1.4	2.0
23	27.6	**	0.0	420.0	-63.0	1.7	2.5	2.7
24	23.7	**	1.0	507.0	-57.0	3.1	5.5	6.3
25	21.7	**	2.0	190.8	-40.8	2.8	4.1	4.8
26	19.9	**	20.5	84.6	-27.0	2.2	3.8	4.4
27	20.9	**	0.5	473.8	-58.2	1.4	1.7	2.1
28	21.1	**	17.5	162.6	-62.4	1.7	2.9	3.5
29	20.3	**	0.0	508.2	-106.8	0.8	1.1	1.8
30	19.7	**	12.0	172.2	-46.8	1.4	1.8	2.9
31	20.7	**	27.5	412.8	-46.8	2.5	4.3	5.4
MONTH	22.6	**	156.0	372.8	-63.2	1.7	2.6	3.2
LACK	41	744	0	1	0	0	24	0

TABLE 4.2- 8B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

10M 40M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NNW	N
4.7	6.0	24.1	9.8	2.0	2.0	7.0	2.6	5.2	3.0	4.7	3.8	5.8	4.7	7.9	4.8	1.9

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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	1.1	1.0	0.8	1.0	1.1	1.1	1.3	1.7	1.9	2.1	2.4	2.4	2.6	2.6	2.6	2.4	2.0	1.9	1.6	1.5	1.2	1.2	1.2	1.2
SIGMA	1.2	1.2	0.9	1.1	1.1	1.2	1.2	1.4	1.3	1.3	1.2	1.2	1.1	1.1	1.0	1.1	1.1	1.4	1.4	1.4	1.2	1.3	1.3	1.2
20M																								
MEAN	1.8	1.7	1.5	1.8	1.9	1.7	2.1	2.5	2.7	3.0	3.4	3.3	3.7	3.7	3.8	3.7	3.2	3.0	2.9	2.3	2.1	2.2	2.1	1.8
SIGMA	1.7	1.6	1.3	1.6	1.7	1.4	1.9	2.0	2.1	2.1	2.1	2.0	1.9	2.0	1.8	2.0	2.1	2.1	2.1	1.9	1.9	2.0	1.8	1.5
40M																								
MEAN	2.8	2.5	2.1	2.6	2.6	2.6	2.5	2.8	3.1	3.3	3.4	3.7	3.9	4.2	4.4	4.4	4.0	3.8	3.9	3.2	2.9	2.9	2.9	2.9
SIGMA	1.8	1.9	1.4	1.8	1.7	1.6	2.0	2.3	2.3	2.5	2.3	2.2	2.1	2.3	2.1	2.2	2.4	2.4	2.4	2.2	2.1	2.1	2.0	1.7
TEMPERA-																								
TURE																								
MEAN	21.0	21.0	20.8	20.7	20.6	21.1	22.2	23.4	23.9	24.4	24.5	24.6	24.5	24.5	24.4	24.1	23.3	22.7	22.4	22.1	21.9	21.7	21.5	21.3
SIGMA	2.3	2.3	2.2	2.3	2.3	2.1	2.1	2.7	3.1	3.2	2.9	3.0	2.8	3.0	3.1	3.0	2.7	2.4	2.4	2.1	2.1	2.2	2.2	2.2
HUMIDITY																								
MEAN	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
SIGMA	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
LAPSE																								
RATE																								
MEAN	1.2	1.2	1.3	1.3	1.2	0.9	0.3	-0.2	-0.5	-0.6	-1.0	-1.0	-0.9	-1.0	-0.8	-0.5	-0.4	-0.1	0.4	0.8	1.0	1.1	1.0	1.3
SIGMA	1.6	2.2	2.3	2.2	2.2	1.7	0.8	1.2	0.8	0.7	1.0	0.9	0.9	0.8	0.8	0.9	0.5	0.5	1.0	1.4	1.6	1.7	1.4	1.7
STABIL-																								
RATIO																								
MEAN	0.1	**	**	0.1	**	0.1	0.0	-0.2	-0.2	-0.1	-0.2	-0.1	-0.1	-0.2	-0.2	-0.1	-0.1	0.1	-0.0	0.1	0.1	0.0	0.1	**
SIGMA	0.2	**	**	0.2	**	0.5	0.3	0.4	0.3	0.1	0.2	0.1	0.1	0.2	0.3	0.1	0.1	0.3	0.1	0.4	0.4	0.2	0.3	**
RADIA-																								
TION																								
MEAN	-4.9	-4.3	-4.7	-4.2	-3.6	-1.1	15.6	28.4	37.3	45.9	52.0	50.7	44.2	40.1	32.4	20.5	5.2	-4.5	-6.1	-6.3	-6.3	-6.0	-5.9	-5.4
SIGMA	2.9	2.5	2.6	2.1	2.2	1.3	8.6	15.3	20.0	22.7	26.1	25.4	23.9	20.6	17.5	10.8	7.1	2.8	3.6	3.5	3.6	3.3	3.2	3.1

TABLE 4.2-8D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	32			1	4	2	4	4	7		1		2	1	2			4
A-B	80			7	6	5	3	9	15	2	1	7	6	4	5	3	1	6
B	83	2	11	14	2		4	5	16	3	5	7		4	3	4		3
B-C	12	1	2	5					2		2							
C	46		24	11	1				5	4	1							
C-D	10		4	5					1									
D1	77	4	29	20	2	3	1	2	3	2	2	2		4	2	2	1	1
D2	127	8	57	20	1	1		1	6	2	6	2	8	8	9	1	1	1
E	25	1	12	7	1				1		1			2				
F	18		11	4					2	1								
G	233	5	12	10	7	7	5	6	4	5	14	7	25	26	39	39	15	7
LACK	1																	

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TABLE 4.2-8E FREQUENCY DISTRIBUTION 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	175																			
0.5-0.9		4	4	6	3	2	9	6	2	1	6	10	14	13	20	14	4	6	181	
1.0-1.9		3	15	11	6	6	3	10	12	6	10	3	4	9	15	4	2	4	122	
2.0-2.9		7	58	29	9		2	6	25	5	4	9	1					7	126	
3.0-3.9		3	62	32					10	1	3							4	161	
4.0-4.9			13	19					1									1	112	
5.0-5.9			4	2					3										36	
6.0-6.9																			6	
7.0-7.9																			0	
8.0-8.9																			0	
9.0-9.9																			0	
10.0-																			0	
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTL	175	17	156	99	18	8	14	22	50	16	23	22	19	22	37	18	6	22	744	
40M																				
-0.4	35																			
0.5-0.9		4	4	4	1	3	2	3		3	2	1	4	4	7	7	2	0	35	
1.0-1.9		6	10	8	6	7	8	13	4	6	11	11	15	16	27	9	6		51	
2.0-2.9		5	13	14	8	3	8	16	8	3	5	12	17	10	19	15	2		163	
3.0-3.9		11	20	13		1	1	12	11	8	12	1	5	3	6	5	2		158	
4.0-4.9		9	20	15				7	5	2	3	2	2	2			1		111	
5.0-5.9		4	35	4		1		1	6	2	2	1							68	
6.0-6.9		4	34	10					4		2						1		54	
7.0-7.9		2	18	6					4										53	
8.0-8.9			8	6					1										27	
9.0-9.9			4	1															14	
10.0-			3	2															5	
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTL	35	45	179	73	15	15	19	52	39	22	35	28	43	35	59	36	14	0	744	

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TABLE 4.2- 9A DAILY AVERAGES

DATE	AIR TEMP. C. DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SQCM/DAY	NET RAD. CAL/SQCM/DAY	WIND SPD(110) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	23.5	**	5.5	480.6	-65.5	1.9	1.9	2.7
2	21.8	**	1.5	213.0	-59.5	1.7	2.1	2.4
3	21.2	**	14.5	91.2	-36.1	1.8	2.3	2.7
4	19.5	**	10.5	100.2	-25.3	4.9	5.9	7.1
5	20.8	**	0.0	426.6	-56.5	3.4	4.4	5.4
6	20.4	**	0.0	445.8	-115.9	2.0	1.7	2.6
7	**	**	0.0	503.4	-90.1	2.0	1.9	2.9
8	**	**	21.0	235.8	-36.7	2.5	3.1	4.2
9	25.0	**	2.0	127.8	-28.9	2.3	3.0	4.0
10	25.0	**	2.0	429.6	-45.7	1.9	2.7	3.3
11	26.0	**	0.0	358.8	-86.5	2.2	2.9	3.7
12	21.5	**	2.0	363.0	-37.9	3.8	6.6	7.8
13	20.8	**	4.0	189.0	-45.7	4.1	6.0	7.4
14	23.5	**	14.5	105.6	-39.1	2.5	3.4	4.5
15	22.3	**	0.0	420.6	-130.3	2.0	3.5	4.5
16	20.8	**	0.0	479.4	-162.7	2.5	3.7	4.8
17	21.3	**	0.0	488.4	-168.7	1.7	2.5	4.1
18	19.5	**	0.0	496.8	-170.7	1.3	1.9	2.6
19	20.7	**	0.0	**	**	2.7	3.0	3.9
20	21.1	**	3.5	**	**	1.3	1.9	2.5
21	20.1	**	16.5	242.4	-34.3	1.2	1.7	2.4
22	16.0	**	27.5	66.6	-39.7	0.6	1.0	1.9
23	17.8	**	0.5	471.0	-94.9	1.4	1.7	3.0
24	17.0	**	0.0	348.6	-145.3	2.0	2.9	4.1
25	16.2	**	0.0	468.6	-158.5	2.0	3.0	4.1
26	16.7	**	0.0	360.6	-153.7	2.2	3.3	4.6
27	18.3	**	0.5	195.6	-65.5	3.1	5.6	7.0
28	16.5	**	45.0	42.6	-30.1	3.3	5.3	7.1
29	19.5	**	0.0	456.6	-113.5	2.0	2.6	4.1
30	20.7	**	0.0	379.2	-119.5	1.5	2.4	3.4
MONTH	20.5	**	171.0	317.8	-82.5	2.3	3.1	4.2
LACK	56	720	0	14	31	0	5	1

TABLE 4.2- 9B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	4.2	7.3	22.4	10.9	1.6	1.8	3.0	3.2	8.6	7.2	0.4	2.2	1.8	3.4	11.5	6.2	4.3
40M	0.8	10.0	23.9	8.8	2.6	1.9	2.5	7.5	9.7	2.4	0.8	1.8	1.0	4.2	10.4	6.7	4.9

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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 SPO																								
H=																								
10M																								
MEAN	1.8	1.9	1.8	1.8	1.8	2.0	2.2	2.4	2.7	2.7	3.0	3.0	3.0	2.9	2.7	2.5	2.2	2.2	2.2	2.2	2.0	1.9	1.7	1.7
SIGMA	1.4	1.4	1.3	1.2	1.4	1.4	1.3	1.3	1.4	1.3	1.0	1.0	1.4	1.2	1.3	1.5	1.6	1.6	1.5	1.5	1.5	1.4	1.2	1.3
20M																								
MEAN	2.3	2.4	2.7	2.4	2.7	2.7	2.7	3.4	3.6	3.6	3.9	3.9	4.2	4.1	3.8	3.7	3.5	3.4	3.3	3.1	2.5	2.8	2.4	2.3
SIGMA	1.9	1.9	2.2	1.9	2.3	2.4	2.2	2.3	2.3	2.1	1.7	1.6	1.9	1.9	1.9	1.9	2.2	2.3	2.3	2.1	1.9	1.8	1.7	1.9
40M																								
MEAN	3.7	3.7	3.9	3.8	3.9	4.0	3.7	4.1	4.4	4.4	4.4	4.7	4.9	4.9	4.8	4.6	4.6	4.5	4.3	4.2	3.6	3.8	3.4	3.5
SIGMA	2.1	2.1	2.5	2.0	2.5	2.4	2.3	2.8	2.8	2.5	2.1	1.9	2.2	2.2	2.2	2.3	2.6	2.5	2.5	2.3	2.1	2.2	1.6	2.0
TEMPERATURE																								
MEAN	18.4	18.0	18.1	18.0	17.5	18.0	19.8	21.2	22.1	22.7	23.1	23.0	22.8	22.6	22.5	22.1	21.6	21.0	20.8	20.4	19.9	19.6	19.4	18.9
SIGMA	3.6	3.7	3.6	3.8	3.9	3.9	3.0	2.4	2.7	2.8	2.9	2.9	2.8	2.9	2.8	2.7	2.5	2.5	2.6	2.8	2.8	3.0	3.3	3.5
HUMIDITY																								
MEAN	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
SIGMA	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
LAPSE RATE																								
MEAN	1.0	1.6	1.6	1.6	1.7	1.6	0.3	-0.0	-0.4	-0.6	-0.7	-1.1	-1.0	-0.5	-0.5	-0.3	-0.2	0.0	0.0	0.2	0.3	0.6	0.9	0.7
SIGMA	1.1	2.1	1.8	2.3	2.5	2.2	0.8	0.9	0.8	0.9	0.9	1.3	1.1	1.1	0.9	0.7	0.9	1.7	1.6	1.8	2.3	2.7	3.2	3.2
STABIL. RATIO																								
MEAN	0.2	0.7	0.4	0.7	0.9	0.5	0.0	0.1	-0.0	-0.1	-0.1	-0.1	-0.2	-0.0	-0.1	-0.1	-0.1	0.0	-0.2	0.1	0.2	-0.2	0.6	-0.1
SIGMA	0.4	1.6	0.7	1.1	1.7	0.8	0.2	0.3	0.1	0.3	0.1	0.2	0.3	0.2	0.2	0.2	0.8	0.4	1.4	0.2	0.5	2.4	1.0	3.5
RADIATION																								
MEAN	-5.7	-5.9	-5.8	-5.6	-5.7	-4.4	-1.4	18.5	31.5	41.3	47.3	49.7	43.7	37.7	30.6	18.0	-4.2	-5.3	-6.8	-6.8	-6.6	-6.1	-5.9	-6.3
SIGMA	4.1	4.1	4.4	4.3	4.3	3.8	2.0	10.9	17.5	21.5	24.6	24.0	21.7	21.4	16.9	10.1	3.5	3.9	4.1	4.3	4.3	4.3	4.2	4.3

TABLE 4.2- 9D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TDTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNN	NW	NNW	N	LACK	
A	6																		
A-B	31	1	1	2	2	1	4	6	3				2	1	1	1	1	1	
B	78		7	16	5	2	5	9	18		1		1	2	1	3	4	4	
B-C	26		9	7				1	4			1			1	1			
C	34		7	9				1	7						1	1			
C-D	15		6	6				1	3										
D1	66	15	11	8	1	2		2	1	10		3	1	1	8	3	1	1	
D2	151	17	55	13	1	1	5	1	11	17		2	3	6	13	5	1	1	
E	54	1	27	3				1	11	4	1	1			2	1	1	1	
F	40	7	12	2					4	4		1	1	5	6	6	1	1	
G	174	10	10	6	2	4	5		1	8	1	8	4	9	42	28	22	14	
LACK	45	2	16	7					1	1	1	3		1	7	5	2		

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

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL	
-0.4	29																		30	
0.5-0.9		3	6	1	2	3	6	2		2		5	8	4	22	20	11	1	7	100
1.0-1.9		11	6	8	5	8	8	8	3	8	1	5	2	11	34	16	10	10	150	
2.0-2.9		10	34	12	3	1	4	11	15	12	1	4	2	6	13	5	3	9	145	
3.0-3.9		11	57	37	1		2	6	34	26	1	1		4	4	1	4	4	187	
4.0-4.9		14	35	10				1	9	2				5	5		1	1	77	
5.0-5.9		1	11	8															20	
6.0-6.9		1	2	1															4	
7.0-7.9			5																5	
8.0-8.9			2																2	
9.0-9.9																			0	
10.0-																			0	
LACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTL	29	51	158	77	11	12	20	22	61	50	3	15	12	23	78	42	29	27	720	

40M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
-0.4	6																		6
0.5-0.9		1	1	1	2	3	1	1		3		1	1	1	14	2	2	0	13
1.0-1.9		3	5	9	9	7	8	4	6	3		6	3	9	15	7	5	7	74
2.0-2.9		21	9	9	9	10	10	10	4	3	2	2	1	10	15	10	9	9	129
3.0-3.9		12	20	11	6	2	12	13	3	3	3	4	2	5	25	19	12	12	150
4.0-4.9		10	28	10	1	4	17	13	1	1	1			1	10	3	4	4	102
5.0-5.9		4	28	15	1		7	21	5	5	1			2	4	3	2	2	92
6.0-6.9		8	21	4			2	9	1	1				1	1	3	1	1	51
7.0-7.9		3	16	5			1	4	2	2				1	3	1			35
8.0-8.9		4	17	3											2	1			28
9.0-9.9		4	8	3															15
10.0-		2	19	2															24
LACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
TOTL	6	72	172	63	19	14	18	54	70	17	6	13	7	30	75	48	35	1	720

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TABLE 4.2-10A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SCCM/DAY	NET RAD. CAL/SCCM/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	22.7	**	0.0	249.0	-82.3	1.5	2.2	3.4
2	19.2	**	2.0	**	-88.9	1.6	2.8	4.1
3	19.9	**	0.0	342.0	-82.9	1.6	2.9	4.2
4	20.5	**	0.0	343.2	-94.3	1.2	1.8	3.6
5	16.2	**	4.5	305.4	-118.3	1.6	2.9	5.1
6	14.7	**	0.0	438.6	-202.3	1.1	1.9	3.4
7	15.0	**	0.0	387.6	-155.5	0.8	1.7	2.8
8	16.9	**	0.0	284.4	-85.3	1.3	2.2	3.0
9	18.5	**	80.5	45.0	-29.5	2.8	4.0	5.9
10	19.5	**	0.0	327.0	-78.7	1.3	2.1	3.7
11	15.1	**	0.0	405.6	-201.7	1.9	2.8	5.8
12	12.5	**	0.0	295.8	-138.7	1.2	1.6	2.6
13	15.7	**	0.0	243.6	-48.1	2.2	2.0	3.4
14	16.3	**	28.0	45.0	-18.7	2.9	3.8	5.6
15	17.4	**	1.5	175.2	-82.3	1.0	1.5	2.7
16	15.1	**	4.0	53.4	-42.1	1.8	2.6	4.2
17	15.4	**	0.0	360.0	-114.1	0.9	1.2	2.5
18	15.5	**	0.0	356.4	-96.7	1.5	1.8	3.1
19	17.4	**	0.0	207.6	-64.3	0.9	1.3	2.2
20	18.9	**	64.5	60.6	-22.3	2.2	3.0	4.3
21	20.8	**	0.0	354.6	-138.1	2.1	2.5	4.4
22	16.2	**	0.0	334.8	-117.1	1.1	1.4	2.7
23	18.4	**	0.0	322.8	-102.7	1.3	1.7	2.6
24	17.6	**	27.0	51.6	-34.9	1.2	1.8	2.8
25	12.8	**	0.0	284.4	-154.9	1.6	2.1	4.5
26	9.4	**	0.0	247.8	-154.9	1.2	1.1	2.5
27	11.3	**	0.0	335.9	-195.4	1.5	1.9	3.0
28	12.3	**	7.5	33.6	-55.3	2.2	2.9	4.1
29	12.5	**	0.0	333.4	-153.1	2.6	3.9	5.5
30	11.5	**	0.0	321.6	-150.7	1.6	2.1	**
31	13.4	**	2.5	297.0	-141.7	2.5	2.8	**
MONTH	15.9	**	222.0	261.7	-103.4	1.6	2.3	3.7
LACK	30	744	0	15	7	8	9	78

TABLE 4.2-10B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	16.2	6.5	13.2	3.9	2.7	1.0	0.8	0.7	2.2	0.7	2.7	4.8	3.6	7.2	17.6	10.6	5.6
40M	0.9	6.9	15.1	6.6	3.9	1.7	1.1	2.5	2.5	1.6	2.8	2.5	3.3	5.8	15.5	18.0	9.4

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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	1.2	1.2	1.2	1.1	1.3	1.5	1.6	1.7	1.8	2.2	2.3	2.3	2.4	2.4	2.1	2.0	1.6	1.4	1.4	1.5	1.2	1.2	1.2	1.2
SIGMA	1.1	1.0	0.9	0.9	1.0	1.1	1.1	1.2	1.3	1.2	1.1	0.9	1.0	1.0	1.0	1.5	1.5	1.3	1.2	1.1	1.0	1.3	0.9	1.1
20M																								
MEAN	1.6	1.7	1.8	1.7	1.9	2.0	2.0	2.0	2.3	2.8	3.0	2.8	3.2	3.2	2.8	2.7	2.4	2.4	2.2	2.2	1.8	1.8	2.0	1.8
SIGMA	1.2	1.3	1.0	1.0	1.0	1.4	1.5	1.6	1.5	1.4	1.5	1.4	1.4	1.4	1.3	1.6	1.6	1.7	1.6	1.4	1.2	1.6	1.5	1.3
40M																								
MEAN	3.3	3.4	3.3	3.7	3.4	3.9	3.9	3.5	3.6	3.9	4.2	4.5	4.2	4.4	3.8	3.9	3.6	3.7	3.5	3.5	3.5	3.5	3.5	3.1
SIGMA	1.5	1.4	1.6	1.4	1.4	1.3	2.0	2.5	2.3	2.0	2.8	2.6	2.3	2.2	1.7	2.0	1.9	2.2	1.9	1.6	1.5	2.0	1.9	1.4
TEMPERATURE																								
MEAN	13.7	13.6	13.2	12.9	12.8	12.6	13.7	15.5	17.0	18.6	19.2	19.5	19.7	19.8	19.5	18.5	17.2	16.5	15.8	15.3	14.7	14.2	13.8	13.5
SIGMA	4.3	4.3	4.6	4.4	4.6	4.6	4.0	3.3	2.7	2.5	2.8	2.8	2.7	3.2	3.3	2.8	2.9	3.2	3.4	3.7	4.1	4.0	3.9	4.0
HUMIDITY																								
MEAN	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
SIGMA	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**

MEAN	1.9	1.7	2.1	2.1	2.0	2.2	0.2	0.0	-0.2	-0.3	-0.5	-0.4	-0.4	-0.8	-0.6	0.3	1.0	1.8	2.5	2.3	3.2	3.2	2.9	2.5	2.2
SIGMA	4.0	3.4	3.8	3.5	3.4	3.6	2.0	1.2	0.9	1.1	0.8	0.8	0.6	2.4	2.8	0.9	2.1	3.5	3.5	3.3	3.4	3.3	3.3	2.9	3.0
STABIL. RATIO																									
MEAN	1.7	1.4	1.2	1.2	0.7	-0.0	-0.1	-0.1	0.1	0.1	-0.2	-0.1	-0.1	-0.2	-0.1	0.1	0.2	0.2	1.4	0.7	1.6	0.6	1.1	1.0	
SIGMA	3.0	2.1	1.8	1.5	2.9	1.3	0.9	0.9	0.5	0.7	0.5	0.2	0.1	0.8	0.8	0.7	0.8	1.0	2.7	1.7	2.9	0.9	1.9	1.7	
RADIATION																									
MEAN	-6.7	-6.7	-6.3	-5.9	-5.6	-5.3	-1.5	13.6	23.2	32.9	41.4	43.3	40.8	33.9	23.2	11.4	-7.5	-9.8	-8.9	-8.4	-7.9	-7.6	-7.6	-7.3	
SIGMA	4.9	4.8	4.9	4.4	4.3	3.8	1.6	7.7	12.8	17.2	19.2	20.7	20.1	17.1	11.7	6.4	5.0	5.7	5.6	5.5	5.2	5.3	5.1	5.4	

TABLE 4.2-10D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTAL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	10				2	2							2	1	3			
A-B	56	3	3	6	11	2	2	2	1	4	3	3	2	5	3	6	2	1
B	90	2	6	5	3	3	4	3	6	1	9	1	5	3	13	11	10	6
B-C	10		1	1	1						1	1			4	4	2	1
C	15														2	3	1	
C-D	11								1	1	1	2	1		1			
D1	70														8	2	4	10
D2	122	9	26	6	1	1		3	3	7	4	7	12	28	11	11	4	13
E	30	6	4							1	1	4	1	4	3	6		
F	45	9	14							1	1	1	1	6	7	2	2	3
G	257	7	13	7	2	1		6	6	4	6	4	12	27	89	45	19	15
LACK	28	1	6	1						3	3	3	2	3	4			8

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

10M	CALM	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NNW	N	LACK	TOTL	
-0.4	104																	
0.5-0.9	5	1	10	3	1	2	4	1	2	4	1	2	11	25	11	15	119	
1.0-1.9	12	8	11	3	2	1	3	7	1	3	3	16	22	32	22	3	170	
2.0-2.9	18	30	11	7	3	4	3	4	1	3	10	5	15	34	7	18	234	
3.0-3.9	9	18	4	4	1	1	3	1	1	3	13	1	5	14	7	7	179	
4.0-4.9	1	19	2	1		2	4	5	5	4	5	1	4		7	8	85	
5.0-5.9		1					2	1	1	2	1	1				39	5	
6.0-6.9		3	1											1		5	5	
7.0-7.9																0	0	
8.0-8.9																0	0	
9.0-9.9																0	0	
10.0-																0	0	
LACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	8	
TOTL	104	45	92	27	19	7	6	5	5	19	33	25	50	122	73	38	59	744

40M	CALM	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NNW	N	LACK	TOTL	
-0.4	6																	
0.5-0.9	2	3	3	2	1	1	1	1	1	1	1	1	1	1	1	0	6	
1.0-1.9	1	1	11	5	3	1	3	6	3	3	2	3	4	8	10	2	12	
2.0-2.9	9	5	15	5	2	5	3	6	3	3	7	7	27	28	14	5	60	
3.0-3.9	13	12	10	5	2	2	3	6	3	3	13	3	32	34	11	9	157	
4.0-4.9	7	30	8	3	1	1	3	1	1	3	2	2	15	18	13	5	112	
5.0-5.9	6	20	3	3	1	1	5	1	1	4	6	4	4	6	5	1	58	
6.0-6.9	3	14	4	1	1	1	1	2	1	2	1	2	2	10	4	1	41	
7.0-7.9	1	7	2	1	2	1	1	2	1	1	2	2	1	2	1	2	31	
8.0-8.9	1	1	1				2			2	2	2	1	2	1	1	13	
9.0-9.9	1	1													1	1	4	
10.0-		4											1	3		8	8	
LACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78	78	
TOTL	6	44	97	42	25	11	7	16	10	18	16	21	37	99	115	60	104	744

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TABLE 4.2-11A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SQCM/DAY	NET RAD. CAL/SQCM/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	9.4	**	0.0	331.2	-226.3	1.6	2.1	4.6
2	9.7	**	0.0	339.0	-176.5	1.6	2.2	3.6
3	12.0	**	0.0	312.6	-133.3	1.6	2.0	2.8
4	14.8	**	0.0	293.4	-112.3	2.3	3.2	4.5
5	11.7	**	0.0	55.8	-81.1	4.9	6.6	8.2
6	9.5	**	0.0	175.2	-39.7	3.0	3.7	4.7
7	11.2	**	0.0	54.6	-39.1	2.9	3.7	5.0
8	14.0	**	0.0	252.0	-94.9	1.5	1.8	3.0
9	12.5	**	0.0	223.2	-103.3	1.3	1.4	2.6
10	15.8	**	0.0	206.4	-51.1	1.3	1.9	2.8
11	14.5	**	17.5	47.4	-39.1	2.3	3.4	4.5
12	8.4	**	0.0	323.4	-156.7	2.1	2.5	4.1
13	7.9	**	0.0	251.4	-114.7	1.7	2.2	3.4
14	11.5	**	22.5	43.2	-22.9	1.5	2.1	3.4
15	8.8	**	0.0	298.2	-181.9	1.9	2.6	4.5
16	5.7	**	0.0	237.6	-98.2	0.9	1.3	2.4
17	10.0	**	17.0	72.6	-9.7	3.3	4.5	6.2
18	12.7	**	12.0	99.6	-34.3	1.3	1.7	3.0
19	9.7	**	0.0	287.4	-136.9	1.6	2.2	3.7
20	7.9	**	1.0	58.8	-49.9	1.5	1.6	3.1
21	9.3	**	0.0	214.2	-85.3	1.8	2.0	3.6
22	7.5	**	0.0	264.0	-102.1	1.4	2.0	2.9
23	7.5	**	0.0	85.8	-95.5	1.3	1.8	3.2
24	7.0	**	0.0	255.0	-154.9	1.3	1.8	3.3
25	6.9	**	0.0	260.4	-120.1	1.6	1.9	3.5
26	8.7	**	0.0	253.2	-96.7	1.6	1.9	3.2
27	8.0	**	0.0	254.4	-66.7	1.7	2.1	3.2
28	5.6	**	0.0	267.6	-124.3	1.5	2.1	3.1
29	2.7	**	0.0	266.4	-159.1	1.9	2.5	4.5
30	3.6	**	0.0	274.2	-162.1	1.4	2.5	3.1
MONTH	9.5	**	70.0	211.9	-102.4	1.8	2.4	3.8
LACK	4	720	0	0	3	0	2	14

TABLE 4.2-11B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

10M 40M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
8.1	1.0	8.6	9.3	1.9	1.0	1.2	1.0	1.1	1.9	1.0	3.2	4.4	6.3	10.6	25.6	11.0	3.9
1.0	8.5	10.2	3.0	1.3	0.9	1.0	1.0	1.7	2.6	0.6	3.3	3.1	5.1	9.8	21.9	18.9	7.2

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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	1.4	1.4	1.5	1.6	1.6	1.7	1.7	1.8	2.0	2.1	2.3	2.6	2.6	2.6	2.5	2.2	1.8	1.5	1.4	1.5	1.7	1.7	1.6	1.4		
MEAN	0.8	0.8	1.0	1.1	1.1	1.3	1.6	1.7	1.7	1.4	1.3	1.1	1.4	1.3	1.2	1.6	1.4	1.1	1.3	1.3	1.3	1.2	1.0	0.7		
SIGMA	1.9	1.9	2.1	2.2	2.2	2.4	2.3	2.3	2.5	2.7	3.0	3.1	3.1	3.1	3.1	2.9	2.6	2.0	2.2	2.1	2.3	2.3	2.1	2.0		
20M	0.9	0.9	1.1	1.5	1.4	1.5	1.8	2.1	2.1	2.0	1.8	1.6	1.8	1.7	1.8	2.0	1.9	1.5	1.6	1.6	1.6	1.4	1.1	1.0		
MEAN	3.8	3.7	3.7	3.8	3.9	4.0	3.9	3.5	3.5	3.5	3.9	4.1	4.1	3.9	4.0	4.2	4.0	3.4	3.4	3.7	3.8	3.6	3.6	3.8		
MEAN	1.1	1.1	1.4	1.8	1.7	1.9	2.1	2.3	2.7	2.5	2.1	2.2	2.2	2.0	2.2	2.5	2.3	1.5	1.8	1.7	2.1	1.8	1.5	1.4		
SIGMA	6.9	6.7	6.6	6.3	6.0	6.0	6.6	8.7	10.9	12.3	13.1	13.5	13.7	13.6	13.2	12.3	11.0	10.4	9.6	8.9	8.5	7.9	7.5	7.4		
TEMPERATURE	4.1	4.0	4.4	4.5	4.6	4.6	4.5	3.6	3.2	3.2	3.4	3.4	3.4	3.4	3.3	3.4	3.5	3.6	3.7	3.8	3.9	3.8	4.1	4.3		
SIGMA	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**		
HUMIDITY	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**		
LAPSE	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**		
RATE	3.3	2.7	2.4	3.0	3.0	3.0	2.1	-0.0	-0.9	-0.7	-0.8	-0.9	-0.8	-0.6	-0.4	0.7	1.6	1.9	2.8	2.7	2.5	3.1	2.7	2.6		
MEAN	3.6	3.2	3.1	4.0	3.8	3.7	3.1	1.7	0.9	1.2	1.0	1.0	0.9	0.8	1.0	1.9	3.0	3.2	3.5	3.3	3.3	3.4	3.6	3.2		
SIGMA	2.5	1.4	1.5	1.1	1.8	2.4	0.4	-0.2	-0.2	-0.3	-0.1	-0.1	-0.2	-0.1	-0.1	0.3	0.7	0.5	1.4	1.9	1.3	1.4	1.4	1.4		
MEAN	3.6	2.5	2.6	1.8	2.6	3.7	0.8	0.3	0.6	0.5	0.5	0.3	0.3	0.3	0.4	0.8	1.4	1.1	2.3	2.5	2.2	1.9	2.3	2.0		
SIGMA	-7.1	-7.1	-6.7	-6.8	-7.1	-7.3	-5.2	9.3	20.4	29.0	36.2	36.5	32.7	25.7	16.0	6.2	-7.4	-7.0	-6.4	-6.4	-6.6	-6.7	-7.1	-7.1		
MEAN	4.0	4.1	4.4	4.5	4.4	4.2	3.5	5.0	9.8	15.0	17.0	17.9	15.6	12.4	7.6	3.1	5.0	4.9	4.6	4.5	4.3	4.2	5.4	4.9		
SIGMA	TABLE 4.2-11D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY																									

TABLE 4.2-11D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	
A	1																			
A-B	37		1	1	3	3	3	2	2	1	5	7	3	3	5	4	4	4	1	
B	69	2	4	2	3	3	3	2	3	2	3	5	13	1	8	2	7	7	3	1
B-C	22	2	5	1	1	1	1	1	5	5	1	3	2	1	1	2	2	2	2	
C	25	1	2	3	1	1	1	1	4	4	1	3	2	2	2	2	4	4	1	
C-D	5		1						1	1	1	1	1	1	1	1	1	1	1	
D1	101	14	30	3	3	3	3	3	3	3	2	3	3	3	9	16	7	7	1	
D2	106	18	19	3	3	3	3	3	3	3	2	3	3	5	19	27	9	9	2	
E	27	8	2	1					1	1	1	2	1	2	2	9	3	3	2	
F	79	13	1	1	1	3	3	3	3	1	1	1	1	4	6	43	4	4	6	
G	235	8	3	1	3	3	3	3	3	1	4	7	9	20	38	85	41	41	12	
LACK	3																			

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

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	MNW	N	LACK	TOTL
-0.4	58																	0	58
0.5-0.9	2	3	2	2	3	7	6	3	2	4	10	14	4	10	18	20	2	0	62
1.0-1.9	8	8	4	4	4	2	1	3	5	1	37	9	12	37	96	32	10		62
2.0-2.9	21	18	5	5	5	2	1	3	7	1	23	12	1	23	59	15	13		265
3.0-3.9	16	15	2	2	2	2		2	7	1	5	3	1	6	8	11	3		185
4.0-4.9	13	12	2	2	2			1	7	1	5	3	1	6	8	11	3		86
5.0-5.9	2	2	2	2	2			1	7	1	2	1		3	3	1			36
6.0-6.9		3	1	1															17
7.0-7.9		3	1																4
8.0-8.9		3																	4
9.0-9.9		3																	3
10.0-																			0
LACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTL	58	62	67	14	7	9	7	8	14	7	23	32	45	76	184	79	28	0	720

40M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	MNW	N	LACK	TOTL
-0.4	7																	0	7
0.5-0.9	2	1	1	1	1	1	1	1	7	1	3	5	7	12	20	2	3	0	7
1.0-1.9	7	4	6	4	4	3	3	6	7	1	3	3	11	21	39	22	6	1	8
2.0-2.9	16	7	2	1	1	3	4	3	5	3	3	6	12	20	49	42	16	1	65
3.0-3.9	12	8	6	6	1	1	1	1	5	3	5	4	3	8	29	31	14		148
4.0-4.9	7	11	2	2	1			1	5	3	3	3	2	5	11	12	9		191
5.0-5.9	11	7	1	1					1	3	1	3	2	2	4	7	3		127
6.0-6.9	5	14	7	7	1	1	1	1	1	1	1	1	1	2	4	7	3		65
7.0-7.9		4	4	1										2	2	7	3		37
8.0-8.9		4	3	3										1	1	1			31
9.0-9.9		8	3	3															8
10.0-																			8
LACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
TOTL	7	60	72	21	9	6	7	12	18	4	23	22	36	69	154	133	51	16	720

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TABLE 4.2-12A DAILY AVERAGES

DATE	AIR TEMP. C. DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SQCM/DAY	NET RAD. CAL/SQCM/DAY	WIND		WIND		WIND	
						SPD(10) M/S	SPD(20) M/S	SPD(10) M/S	SPD(20) M/S	SPD(10) M/S	SPD(20) M/S
1	6.1	**	0.0	264.6	-124.3	1.5	1.8	3.5	3.5	1.5	1.8
2	8.1	**	0.0	206.4	-116.5	1.2	1.4	2.9	2.9	1.2	1.4
3	7.5	**	0.0	183.0	-141.1	1.3	1.4	3.4	3.4	1.3	1.4
4	7.8	**	0.0	178.2	-144.1	2.0	2.5	3.8	3.8	2.0	2.5
5	7.9	**	0.0	185.4	-105.7	1.1	1.6	2.7	2.7	1.1	1.6
6	5.8	**	0.0	258.0	-203.5	1.6	1.9	4.1	4.1	1.6	1.9
7	4.1	**	2.5	233.4	-114.7	1.1	1.4	2.3	2.3	1.1	1.4
8	6.8	**	2.0	107.4	-43.2	1.1	1.5	2.5	2.5	1.1	1.5
9	4.8	**	0.0	223.8	-157.9	2.0	2.5	4.7	4.7	2.0	2.5
10	4.7	**	0.0	253.2	-218.5	2.0	2.5	4.5	4.5	2.0	2.5
11	3.7	**	0.0	160.2	-196.3	0.9	1.2	3.3	3.3	0.9	1.2
12	4.9	**	0.0	246.6	-160.3	1.6	2.0	3.8	3.8	1.6	2.0
13	6.6	**	0.0	207.6	-72.1	1.0	1.2	2.6	2.6	1.0	1.2
14	5.5	**	0.0	249.6	-151.3	1.6	1.7	3.6	3.6	1.6	1.7
15	6.4	**	0.0	229.8	-175.9	1.4	1.8	3.2	3.2	1.4	1.8
16	5.8	**	2.5	116.4	-100.3	1.5	1.8	3.2	3.2	1.5	1.8
17	6.5	**	0.0	243.6	-158.5	2.3	3.0	5.0	5.0	2.3	3.0
18	3.4	**	0.0	130.8	-181.3	1.5	1.6	3.6	3.6	1.5	1.6
19	5.8	**	0.0	231.0	-214.3	2.2	3.2	4.7	4.7	2.2	3.2
20	5.3	**	0.0	229.2	-193.9	2.5	2.8	4.9	4.9	2.5	2.8
21	3.8	**	0.0	236.4	-217.9	1.8	2.0	3.8	3.8	1.8	2.0
22	5.6	**	1.0	167.4	-144.7	1.7	1.8	3.2	3.2	1.7	1.8
23	6.0	**	0.0	239.9	-241.5	2.7	3.3	5.1	5.1	2.7	3.3
24	2.7	**	0.5	135.0	-124.3	0.9	1.2	2.4	2.4	0.9	1.2
25	3.7	**	12.5	36.0	-38.5	4.2	4.7	6.4	6.4	4.2	4.7
26	5.5	**	0.5	177.6	-126.1	2.6	2.7	4.3	4.3	2.6	2.7
27	1.3	**	0.0	238.2	-277.3	2.6	3.9	5.4	5.4	2.6	3.9
28	0.5	**	0.0	257.4	-270.1	3.4	4.4	6.1	6.1	3.4	4.4
29	0.2	**	0.0	258.0	-259.3	2.3	2.9	4.6	4.6	2.3	2.9
30	-0.3	**	0.0	258.0	-221.5	1.8	2.4	3.9	3.9	1.8	2.4
31	0.2	**	0.0	258.6	-237.1	2.0	2.1	4.1	4.1	2.0	2.1
MONTH	4.7	**	21.5	206.2	-164.7	1.8	2.3	3.9	3.9	1.8	2.3
LACK	0	744	0	2	13	0	0	19	19	0	0

TABLE 4.2-12B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NNW	N
10M	6.3	4.8	4.3	1.3	0.7	0.9	0.4	0.0	0.0	0.1	1.6	2.4	6.6	14.9	34.4	15.5
40M	0.8	4.1	6.1	1.1	1.4	0.8	0.7	0.0	0.1	0.1	1.7	2.1	5.9	9.5	24.7	30.3
																10.5

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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	1.4	1.4	1.6	1.7	1.8	1.9	1.9	1.9	2.0	2.4	2.6	3.1	2.9	2.6	2.1	1.5	1.6	1.5	1.6	1.6	1.6	1.3	1.3	1.4
SIGMA	0.9	0.8	0.8	0.9	1.1	1.3	1.5	1.8	1.8	1.7	1.5	1.5	1.6	1.5	1.4	1.1	0.9	0.8	1.2	1.0	0.7	0.9	0.7	0.7
20M																								
MEAN	1.7	1.7	2.0	2.2	2.3	2.3	2.4	2.4	2.2	2.7	2.9	3.4	3.4	2.9	2.4	1.9	2.1	1.9	2.1	2.0	1.7	1.7	1.8	1.8
SIGMA	1.1	0.9	1.0	1.2	1.2	1.5	2.0	2.4	2.3	2.2	1.9	1.8	2.0	1.9	1.6	1.2	1.0	0.9	1.2	1.1	0.9	1.1	1.0	0.9
40M																								
MEAN	3.9	4.0	4.2	4.4	4.3	4.4	4.4	4.2	3.6	4.0	4.0	4.8	4.4	4.1	3.6	3.2	3.6	3.5	3.6	3.6	3.5	3.5	3.8	4.1
SIGMA	1.3	1.2	1.3	1.2	1.3	1.6	2.0	2.4	2.8	2.8	2.5	2.6	2.4	2.5	2.2	1.7	1.3	1.2	1.6	1.4	1.3	1.4	1.2	1.3
TEMPERATURE																								
MEAN	1.7	1.3	1.2	1.0	1.0	0.9	0.8	3.1	5.5	8.1	9.5	10.0	10.4	10.2	9.7	8.2	6.7	5.7	4.8	4.1	3.4	2.6	2.2	1.8
SIGMA	2.8	2.8	3.0	2.9	2.9	2.8	2.9	2.3	2.3	2.8	2.7	2.8	2.8	3.0	3.0	2.9	3.2	3.4	3.5	3.4	3.2	2.9	3.1	2.9
HUMIDITY																								
MEAN	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
SIGMA	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
LAPSE RATE																								
MEAN	4.7	4.4	4.3	4.5	4.1	4.1	4.9	1.8	0.2	-0.2	-0.5	-0.4	-0.4	0.1	1.8	2.4	2.8	3.6	3.1	3.9	4.2	4.5	3.8	
SIGMA	4.4	4.1	3.7	3.5	3.6	3.5	3.7	2.3	1.3	0.8	0.8	0.7	0.8	0.5	0.8	2.1	3.3	3.0	3.4	3.3	3.3	3.5	4.1	3.4
STABIL. RATIO																								
MEAN	2.5	2.1	2.2	2.4	1.9	1.8	2.7	0.9	0.0	0.0	0.1	-0.0	-0.0	-0.1	0.0	0.6	1.2	1.3	1.9	1.6	2.0	1.9	2.0	1.7
SIGMA	3.5	3.2	2.8	2.8	2.5	1.8	2.9	1.5	0.4	0.4	0.6	0.2	0.2	0.3	0.4	1.0	2.2	2.0	2.7	2.1	2.3	1.9	3.5	1.6
RADIATION																								
MEAN	-10.6	-10.7	-10.7	-11.1	-10.8	-10.9	-10.5	6.1	16.5	27.0	33.8	37.0	34.8	27.3	16.4	6.5	-10.8	-11.4	-12.0	-11.8	-10.9	-10.5	-10.9	-11.0
SIGMA	5.6	5.5	5.6	5.5	5.7	5.5	5.6	2.6	6.1	8.7	10.7	11.6	9.1	8.5	6.1	2.0	5.9	5.3	5.0	5.1	5.6	5.8	5.8	5.7

TABLE 4.2-12D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	25	1		3	2	4	1				4			2	2	5	1	
A-B	64	2	1	1	3	1	1			2		1	3	9	26	12	2	
B	34		2							1		2	6	8	6	6	2	
B-C	30	1	3	3						1		1	2	4	7	3	4	
C	24									3		1	5	5	5	1	1	
C-D	100	6	13	2		1		2		1		4	3	14	32	11	11	
D1	54	4	4	2						1		2	2	5	20	15	5	
D2	43	5	5	1			1					1	3	8	18	18	1	
E	88	4	2	1						1		1	6	22	40	5	8	
F	267	12	2	1			1			2		8	20	34	109	66	12	
G	15	1	1										1	5	4	2		
LACK																		

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

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	MNW	N	LACK	TOTL	
-0.4	47																		0	47
0.5-0.9		2	1	1	1	3	1			1	2	4	4	6	23	28	6		0	76
1.0-1.9		14	1	4	2	3	1				3	22	22	45	118	60	12			295
2.0-2.9		8	9	4	4	2	1	2			3	1	7	34	72	14	16			173
3.0-3.9		6	7	2	2						1	4	11	17	31	8	5			92
4.0-4.9		2	8								2	2	4	3	6	4	1			32
5.0-5.9		1									1	2	1	2	5	1	2			14
6.0-6.9		1	1									1		1	1		1			5
7.0-7.9		2	4									1		1						4
8.0-8.9			1											1						5
9.0-9.9			1											1						1
10.0-																				0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTL	47	36	32	10	5	7	3	0	1	12	18	49	49	111	256	115	42	0	0	744
40M	6																			0
-0.4																				6
0.5-0.9		3	1	1	1	1	2		1	1	1	1	2	4	13	15	2			48
1.0-1.9		6	10	3	6	2	1		1	3	3	4	4	8	36	20	22			124
2.0-2.9		7	8	3	1	1	1	1		1	1	9	11	16	62	63	19			191
3.0-3.9		8	3	1						3	3	11	15	15	25	60	16			146
4.0-4.9		5	11	1		1				3	2	4	4	12	22	39	9			109
5.0-5.9		1	1							1	1	3	6	6	13	13	3			47
6.0-6.9			1									4	4	3	3	5	1			18
7.0-7.9			1									1	1	1	1		2			8
8.0-8.9			2									1	1	1	1		1			7
9.0-9.9			6									4	0	4	0	3	0			13
10.0-		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
TOTL	6	30	44	8	10	6	5	0	1	12	15	43	43	69	179	220	76	0	19	744

5. 統計結果(1977年)

5.1 年間統計結果

降水量は、8月および9月の2ヶ月間で年間総降水量の約半分を占めているが、年間総降水量は平年なみである。なおその他の要素はほぼ例年通りである。5月より湿度の処理を始めた。

Table 5.1-1 月別欠測回数

1977年

要素	測高(m)	欠測回数												年間(%)	
		1	2	3	4	5	6	7	8	9	10	11	12		
風速	1.0	1	3	4	14	54	55	178	26	3	65	1	9	413	(4.7)
	2.0	25	9	427	38	54	55	177	26	3	65	1	82	962	(11.0)
	4.0	116	23	22	7	54	55	40	26	3	65	1	9	421	(4.8)
風向	1.0	0	3	3	10	54	55	39	22	3	66	41	8	304	(3.5)
	4.0	139	23	22	7	54	55	39	22	3	65	59	9	497	(5.7)
日射		16	2	9	13	39	31	29	23	1	31	0	7	201	(5.6)
放射収支	1.5	24	7	2	14	15	24	10	2	2	34	0	1	135	(2.6)
気温	1.5	40	12	20	68	55	55	39	44	3	65	0	8	409	(4.7)
降水量		0	0	0	0	45	50	34	19	2	61	0	3	214	(2.4)

Table 5.1-2 年間風向頻度(%)

風向 測高	Calm	NNE	NNE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
	10m	12.8	11.6	13.7	7.3	2.7	1.9	1.6	2.6	4.0	2.3	3.3	3.0	3.9	8.3	12.7	5.5
40m	1.8	11.2	15.3	7.8	2.6	1.6	2.1	4.5	3.7	2.2	4.0	3.1	3.6	7.4	15.0	9.5	4.8

Table 5.1-3 月間平均および総量

測高(m) 要素	単位	1977年												
		1	2	3	4	5	6	7	8	9	10	11	12	年平均
静	10	10.0	15.7	17.0	10.7	8.8	8.0	18.1	14.9	11.7	9.6	10.4	19.2	12.8
	40	0.5	2.0	2.2	3.8	1.2	2.1	3.7	2.6	1.0	0.9	0.8	0.3	1.8
風速	10	1.7	1.6	2.1	2.5	2.2	2.6	1.7	2.2	2.0	2.1	1.8	1.2	2.0
	20	2.3	2.4	-	2.8	3.1	3.5	2.4	3.0	2.9	2.9	2.8	2.4	2.8
	40	3.7	3.6	3.9	4.1	4.2	4.4	3.2	3.9	3.9	4.1	4.0	3.6	3.9
日射	-	231.8	305.3	323.9	413.1	482.2	446.6	468.2	351.6	324.9	292.6	214.2	214.0	339.0
放射収支	1.5	160.9	188.4	112.5	85.6	98.1	56.6	63.5	54.9	100.1	134.2	154.5	211.1	118.4
気温	1.5	1.3	2.6	6.5	12.7	15.3	18.5	22.3	23.0	22.4	17.2	13.4	6.1	13.4
降水量	-	10.0	11.5	89.5	62.5	139.5	118.5	71.0	297.0	244.0	32.5	76.0	17.0	1169.0

Table 5.1-4 大気安定度年間出現頻度(%)

安定度	A	A-B	B	B-C	C	C-D	D ₁	D ₂	E	F	G
頻度	1.8	8.6	10.2	2.1	5.6	2.0	10.1	13.9	4.0	4.8	36.8

Table 5.1-5 月および年間極値

要素	測高 (m)	月		1977年														
		項目	1	2	3	4	5	6	7	8	9	10	11	12	年	間		
風速 m/s	1.0	瞬間最大	15.6	13.9	18.0	22.0	18.0	14.9	10.6	17.0	17.5	12.5	13.0	12.0	22.0			
		出現日時	2.6 12:00	1.7 9:00	3.0 19:05	2.8 13:10	1.6 2:20	1.4 12:20	2 18:20	2.3 12:15	1.9 19:05	2.0 11:50	1.1 11:00	1.1 19:00	9 19:00	4月28日 13時10分		
4.0	瞬間最大	出現日時	19.7	16.1	21.8	27.5	25.0	22.0	12.7	22.9	31.5	16.1	15.0	16.3	31.5			
		出現日時	2.4 2:30	1.7 14:50	2.4 9:50	2.8 13:30	1.6 1:05	1.4 12:20	2 18:00	2.3 10:25	1.9 21:40	8 19:25	1 15:20	1 14:10	2 21時40分	9月19日		
気温 °C	1.5	瞬間最高	11.5	19.2	21.5	24.2	26.5	25.9	31.5	31.5	31.0	25.4	26.6	18.5	31.5			
		出現日時	2.6 10:15	2.6 11:20	9 13:40	1.8 13:00	1.9 13:40	5 9:40	1.3 12:05	4 10:45	1.1 11:50	5 13:30	1 13:10	1.7 14:10	7月13日 8月4日 12時05分 10時45分			
		瞬間最低	-7.5	-8.0	-9.0	-1.5	5.4	12.1	17.3	16.9	13.2	8.8	0.6	-5.2				
		出現日時	3.0 6:40	1.8 6:30	6 5:55	4 5:15	8 5:10	1.4 12:30	2.1 2:05	1.0 4:50	2.5 4:20	2.2 5:20	2.4 5:30	2.2 6:10	2.2 6:10	3月6日 5時55分		
		日平均最高	5.9	11.5	12.6	21.2	18.5	21.5	26.8	26.4	26.7	20.4	19.5	11.8	26.8			
		出現日時	1.0	2.6	9	2.8	2	6	1.3	4	1.1	1	1	1.6	7月13日			
降水量 mm	-	日平均最低	-1.2	-1.0	-0.1	6.4	10.7	15.6	18.1	20.1	18.8	14.4	7.1	1.0	-1.2			
		出現日時	2	1.8	5.6	4	4	1.9	8	1.1	2.2	2.0	1.2	2.2	1月2日			
		日総量最大	7.5	9.0	41.0	22.0	161.5	25.5	34.5	73.5	162.5	22.5	43.5	8.5	162.5			
		出現日時	2.7	2.1	3.0	1.3	1.5	1.4	1.1	1.4	1.9	4	1.7	3.1	9月19日			
301.5 mm	8月	時総量最大	2.0	3.5	5.5	7.0	14.5	22.5	16.0	15.5	42.0	40	11.0	3.5	42.0			
		出現日時	2.7	2.1	2.7	1.7	1.5	1.4	1.1	1.7	1.9	4	1.6	1.6	9月19日			
		出現日時	2.3	1.1	1.0	2.1	1.8	1.3	1.9	1.2	2.0	3	2.3	1.9	20時			
月総量最大		301.5 mm																

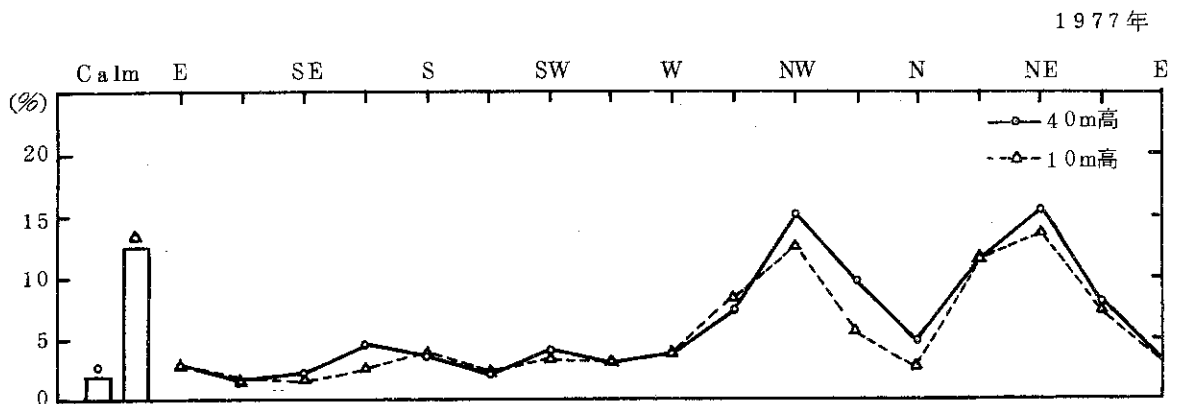


Fig. 5.1-1 年間風向頻度

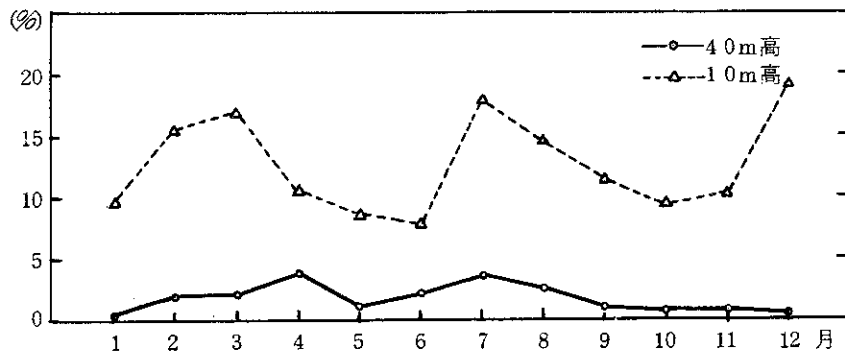


Fig. 5.1-2 月別静穩出現頻度

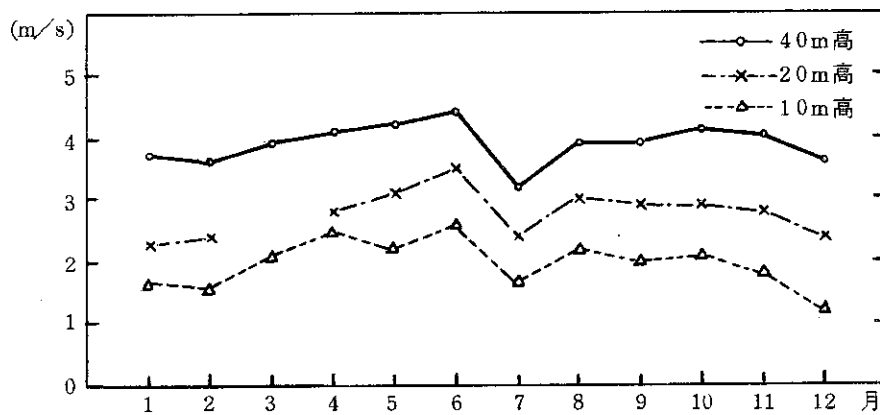


Fig. 5.1-3 月平均風速

1977年

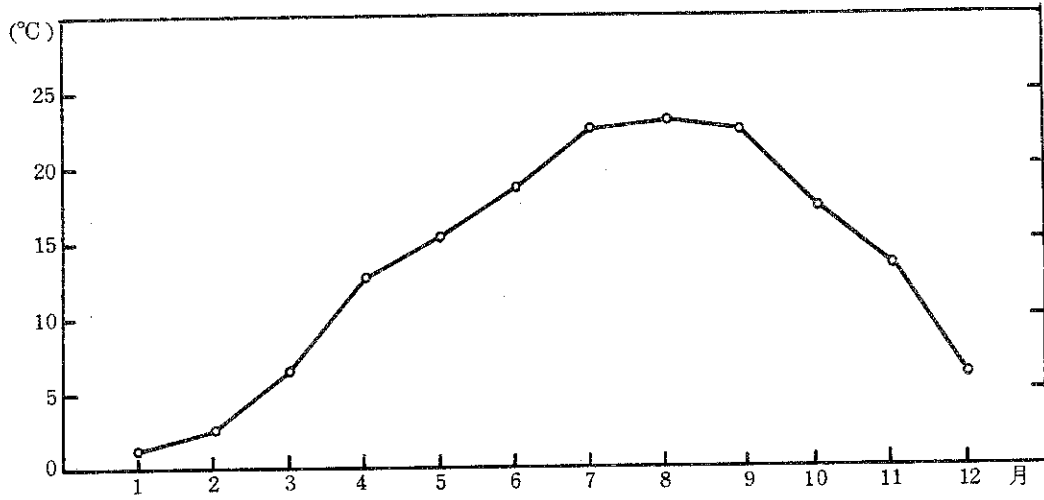


Fig. 5.1-4 月平均気温

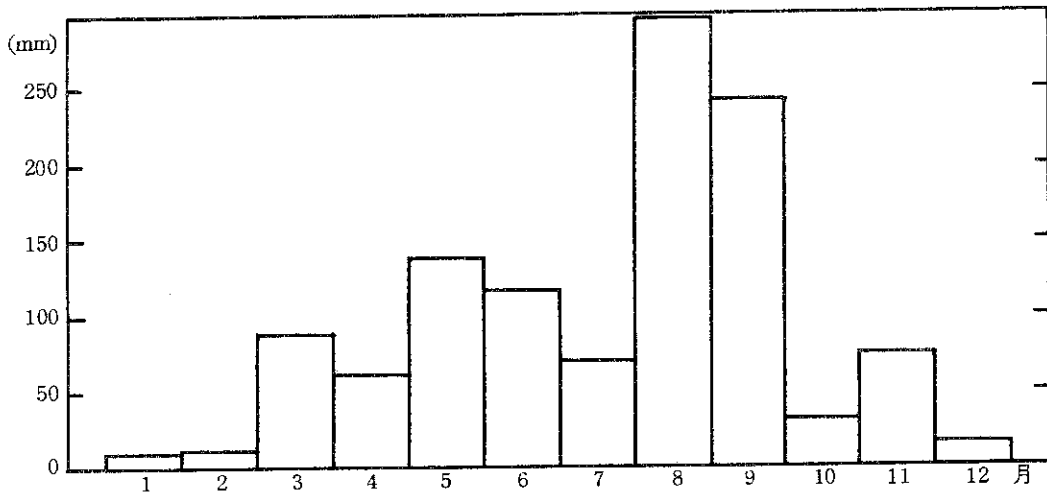


Fig. 5.1-5 月間降水量

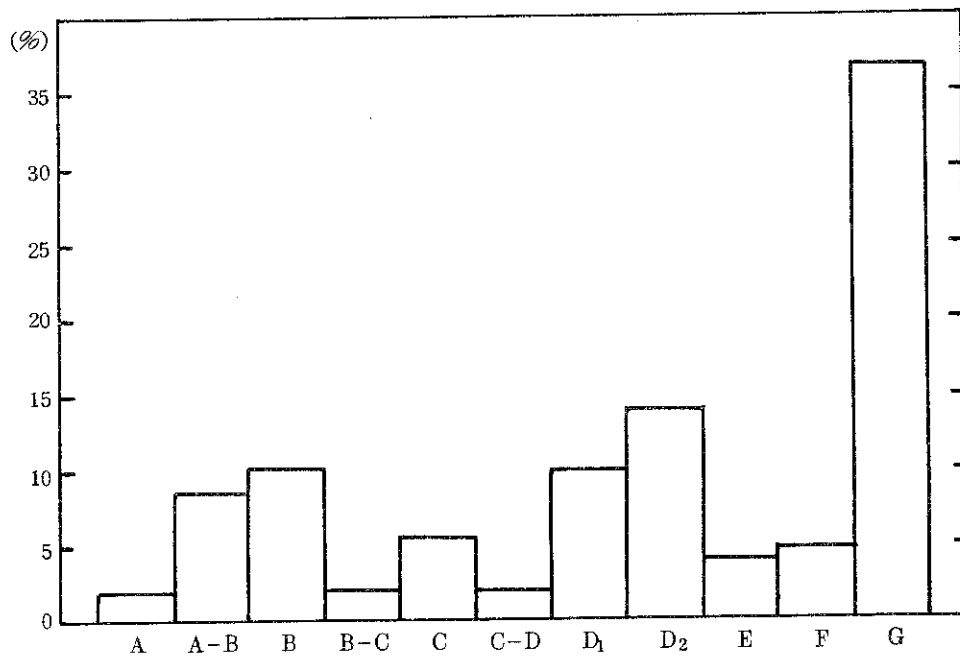


Fig. 5.1-6 大気安定度年間出現頻度

5.2 月間統計結果

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TABLE 5.2- 1A DAILY AVERAGES

DATE	AIR TEMP. C/DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SCM/DAY	NET RAD. CAL/SCM/DAY	WIND		WIND		WIND	
						SPD(10) M/S	SPD(20) M/S	SPD(10) M/S	SPD(20) M/S	SPD(40) M/S	
1	-0.7	**	0.0	246.6	-150.9	2.0	2.2	2.2	4.2	4.2	
2	-1.2	**	0.0	270.0	-176.5	0.9	1.2	1.2	2.4	2.4	
3	1.6	**	0.0	258.6	-166.2	2.2	2.8	2.8	3.7	3.7	
4	-0.6	**	0.0	272.4	-250.9	1.6	2.5	2.5	3.7	3.7	
5	0.2	**	0.0	246.0	-196.3	1.7	2.2	2.2	3.5	3.5	
6	0.0	**	0.0	272.4	-230.5	1.6	2.2	2.2	3.5	3.5	
7	0.7	**	0.0	273.0	-207.7	1.6	2.7	2.7	3.8	3.8	
8	2.9	**	0.0	277.6	-160.2	1.6	2.1	2.1	3.6	3.6	
9	4.0	**	0.0	72.6	-23.7	2.0	3.2	3.2	5.0	5.0	
10	5.9	**	0.0	139.8	-65.9	2.0	2.2	2.2	4.1	4.1	
11	2.6	**	0.0	162.0	-123.7	0.6	0.9	0.9	2.2	2.2	
12	3.0	**	0.0	225.0	-92.7	1.5	1.9	1.9	3.6	3.6	
13	0.8	**	0.0	241.2	-192.1	1.4	1.8	1.8	3.5	3.5	
14	-0.1	**	0.0	268.8	-264.1	1.9	2.4	2.4	4.4	4.4	
15	-0.2	**	0.0	251.4	-127.2	1.1	1.4	1.4	**	**	
16	**	**	1.5	207.2	-102.2	0.9	**	**	**	**	
17	5.1	**	0.0	255.6	-157.9	1.9	2.5	2.5	4.0	4.0	
18	2.4	**	0.0	298.8	-201.1	1.5	1.8	1.8	3.9	3.9	
19	2.0	**	0.0	152.0	-147.1	0.9	1.2	1.2	2.7	2.7	
20	1.6	**	0.0	263.4	-221.1	1.5	2.2	2.2	3.7	3.7	
21	1.3	**	0.0	211.8	-58.2	2.1	2.8	2.8	3.9	3.9	
22	-0.8	**	0.0	299.4	-165.1	1.1	1.8	1.8	3.0	3.0	
23	0.9	**	0.0	66.0	-40.9	1.2	2.0	2.0	2.9	2.9	
24	1.7	**	0.0	307.8	-245.1	2.4	3.3	3.3	5.6	5.6	
25	0.4	**	0.0	157.4	-188.5	0.9	1.5	1.5	2.5	2.5	
26	2.8	**	7.5	177.0	-84.1	4.0	5.4	5.4	6.4	6.4	
27	2.7	**	1.0	110.7	-21.5	2.8	3.5	3.5	**	**	
28	1.8	**	0.0	284.4	-157.9	1.1	1.8	1.8	3.2	3.2	
29	-0.4	**	0.0	212.0	-264.7	1.4	2.1	2.1	3.7	3.7	
30	-0.5	**	0.0	**	**	1.3	1.7	1.7	**	**	
31	0.1	**	0.0	**	-232.0	1.8	2.2	2.2	**	**	
MCNTH	1.2	**	10.0	221.6	-160.9	1.7	2.3	2.3	3.7	3.7	
LACK	40	744	0	16	24	1	25	25	116	116	

TABLE 5.2- 1B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

10M 40M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10.0	0.5	6.5	3.9	0.9	0.1	0.4	0.3	0.1	0.1	0.2	2.3	4.0	5.0	11.2	20.5	15.6	4.7
4.0	0.5	6.6	2.8	0.3	0.5	0.2	0.5	0.7	0.7	0.7	2.0	1.7	3.8	7.8	26.1	23.2	11.9

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TABLE 5.2-10 HOURLY AVERAGES AND STANDARD DEVIATIONS

TIME (HR)	1	2	3	4	5	6	7	8	9	10	11	12	12	14	15	16	17	18	19	20	21	22	23	24
WIND SPD																								
H _w																								
10M																								
MEAN	1.4	1.7	1.5	1.4	1.2	1.2	1.2	1.5	1.6	2.2	2.6	2.5	2.5	2.2	2.0	1.8	1.4	1.3	1.0	1.4	1.5	1.6	1.5	1.6
SIGMA	1.1	1.0	1.1	0.9	0.8	0.9	0.7	1.0	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.4	1.4	1.5	1.0	1.1	1.4	1.1	1.2	1.0
20M																								
MEAN	1.9	2.2	2.2	2.1	1.9	2.0	1.6	1.9	2.0	2.7	3.1	3.2	3.1	2.9	2.5	2.2	2.0	2.2	1.7	2.0	2.1	2.3	2.0	2.1
SIGMA	1.1	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.2	1.4	1.6	1.5	1.5	1.7	1.6	1.8	1.7	1.5	1.2	1.3	1.4	1.2	1.4	1.3
40M																								
MEAN	3.4	2.8	2.5	2.8	2.2	2.2	2.2	2.2	2.9	2.7	4.2	4.4	4.4	3.9	2.9	3.6	3.8	3.8	3.5	3.9	4.1	3.9	3.4	3.7
SIGMA	1.2	1.3	1.0	1.1	1.0	1.2	1.3	1.5	1.7	1.9	2.2	2.2	2.0	2.1	2.0	2.2	2.2	2.0	1.5	1.6	1.7	1.2	1.2	0.9
TEMPERATURE																								
MEAN	-1.1	-1.3	-1.6	-2.0	-2.3	-2.4	-2.7	-2.5	2.0	4.0	5.1	5.7	6.0	6.0	5.9	4.9	3.1	1.7	0.9	0.6	0.2	-0.0	-0.6	-0.8
SIGMA	2.2	2.2	2.6	2.5	2.6	2.6	2.7	2.1	2.0	2.2	2.0	2.0	2.0	1.8	1.2	1.9	1.8	2.3	2.2	2.2	2.3	2.4	2.4	2.3
HUMIDITY																								
MEAN	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
SIGMA	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
LAPSE RATE																								
MEAN	1.4	1.4	1.6	1.8	2.7	2.5	2.8	0.8	-2.2	-0.5	-0.6	-1.0	-0.7	-0.3	-0.2	0.4	1.6	3.2	3.3	1.9	1.3	1.6	1.9	1.5
SIGMA	1.8	1.7	2.3	2.4	4.2	3.5	3.0	2.3	0.7	0.7	1.0	0.8	0.7	0.9	0.7	1.0	2.7	4.4	3.9	2.3	1.6	2.9	3.0	2.4
STABIL. RATIO																								
MEAN	0.6	0.6	1.1	0.7	1.1	0.8	2.0	0.2	-0.2	-0.1	-0.0	-0.2	-0.1	-0.0	0.0	0.3	0.7	1.8	1.3	1.4	0.9	1.2	1.2	0.6
SIGMA	0.8	0.9	1.8	0.9	1.6	1.2	2.8	1.2	0.5	0.2	0.7	0.2	0.2	0.2	0.4	0.5	1.7	3.6	1.7	1.7	1.4	2.2	3.0	1.9
RADIATION																								
MEAN	-10.5	-10.5	-10.5	-11.2	-10.7	-10.7	-11.0	5.6	17.1	28.7	37.2	39.4	39.1	32.2	22.1	10.3	10.0	-11.9	-11.1	-10.5	-10.6	-10.4	-10.3	-10.7
SIGMA	6.4	6.4	6.4	6.3	6.6	6.4	5.9	3.0	7.0	8.7	10.8	13.1	13.3	12.6	9.3	4.9	5.8	6.7	6.6	6.5	6.7	6.5	6.5	6.7

TABLE 5.2-10 FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNN	NW	NNW	N	LACK
A	3																	
A-B	44	1	1	1	1	1	1	1	1	3	6	6	6	8	12	2	1	
B	73	2	1	1	2	2	2	1	1	5	7	5	5	13	20	12	6	
B-C	23	2	2	2						1	2	1	1	4	4	6		
C	25	5								1	2	2	1	1	7	9		
C-D	12													3	6	1		
D1	77	10	12	2		1			1	2	3	1	1	7	18	13	6	
D2	78	21	8						1	1	1	1	1	21	21	21	5	
E	16	2												5	7	1		
F	59	3											2	10	31	10	3	
G	287	3	2				1	2		5	13	2F	38	106	72	16		
LACK	41	1	1							2	4	1	2	13	13	14	2	

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TABLE 5.2- JE FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	NNW	NW	NNW	N	LACK	TOTL	
-0.4	74																			74
0.5-0.9		1	2		1	2	2	1	1	4	4	2	5	5	27	34	8	0		91
1.0-1.9		6	1	1	1	2	1	1	1	9	9	18	26	46	111	58	17			296
2.0-2.9		17	1	2	1	1		1	1	3	3	8	5	20	65	36	8			165
3.0-3.9		7	2	2						1	1	2	1	10	12	12	1			53
4.0-4.9		11	12											3	9	5	1			41
5.0-5.9		5	5	3											3					13
6.0-6.9		1	1																	9
7.0-7.9																				1
8.0-8.9																				0
9.0-9.9																				0
10.0-																				0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
TOTL	74	48	29	7	1	3	2	1	1	2	17	20	27	84	227	146	35	0	0	744

40M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	NNW	NW	NNW	N	LACK	TOTL	
-0.4	3																			3
0.5-0.9		1	1				1	2	2	1	2	2	5	4	13	7	9	0		3
1.0-1.9		2	2		2	1	2	1	2	5	5	4	8	12	26	31	19	3		56
2.0-2.9		5	1	1	1	1			1	1	1	2	6	11	55	63	25	8		117
3.0-3.9		12	1	2				1	3	3	3	2	2	10	37	42	8	2		178
4.0-4.9		8	4						1	1	1	1	1	5	18	34	8	3		120
5.0-5.9		6	3										1	4	6	12	2			83
6.0-6.9		4	2												1	7	2			34
7.0-7.9		2													1	3	1			15
8.0-8.9															1	2	1			7
9.0-9.9															1	1	1			1
10.0-																				6
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
TOTL	3	40	17	2	2	2	2	4	4	4	12	10	23	47	158	201	72	116	139	744

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TABLE 5.2- 2A DAILY AVERAGES

DATE	AIR TEMP. C-DEG	HUMID- ITY PERCENT	PRECIP- ITAT. MM	SOLAR RAD. CAL/CCM/DAY	NET RAD. CAL/CCM/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	0.4	**	0.0	221.0	-220.6	1.7	2.8	4.2
2	-0.0	**	0.0	265.7	-267.7	1.4	2.2	3.6
3	0.1	**	0.0	345.0	-250.3	1.1	2.0	3.0
4	1.2	**	0.0	335.4	-232.2	1.6	2.4	3.4
5	1.6	**	0.0	314.4	-251.5	2.0	2.5	3.9
6	-0.1	**	0.0	307.4	-250.2	1.4	2.2	2.6
7	0.2	**	0.0	345.0	-253.2	1.3	2.2	3.3
8	0.6	**	0.0	366.6	-206.5	1.0	1.4	2.2
9	1.2	**	0.0	23.4	-49.5	1.4	2.1	3.4
10	2.3	**	2.5	72.0	-61.7	0.9	1.6	3.1
11	1.9	**	0.0	288.8	-253.2	2.0	3.1	4.7
12	0.6	**	0.0	321.6	-167.5	0.5	1.3	2.6
13	4.6	**	0.0	345.6	-190.2	1.6	2.7	3.7
14	4.9	**	0.0	77.4	-55.9	3.6	5.0	5.8
15	0.7	**	0.0	112.2	-98.5	1.1	1.6	2.6
16	0.2	**	0.0	379.8	-229.2	1.9	3.1	4.3
17	0.2	**	0.0	425.0	-282.9	2.9	4.6	5.8
18	-1.0	**	0.0	319.2	-276.1	1.5	2.3	3.6
19	0.9	**	0.0	407.4	-219.1	1.5	2.2	3.2
20	4.1	**	0.0	255.6	-125.7	1.2	2.0	**
21	2.6	**	9.0	72.0	-106.9	1.0	1.7	3.6
22	1.4	**	0.0	429.6	-255.1	1.4	2.3	3.4
23	2.4	**	0.0	264.2	-254.5	1.4	2.3	3.2
24	8.9	**	0.0	416.4	-180.2	1.2	2.0	3.4
25	8.6	**	0.0	264.8	-99.1	1.4	2.0	3.1
26	11.5	**	0.0	356.4	-132.9	2.0	2.9	3.8
27	7.2	**	0.0	287.4	-96.7	1.6	2.3	3.0
28	6.0	**	0.0	368.4	-127.9	1.8	3.2	3.8
MONTH	2.6	**	11.5	305.2	-188.4	1.6	2.4	3.6
LACK	12	672	0	2	7	3	9	22

TABLE 5.2- 2B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	15.7	4.2	7.2	2.5	0.2	0.9	0.4	0.9	2.1	0.7	2.2	2.1	5.5	11.5	20.3	9.1	3.0
40M	2.0	5.7	6.2	2.6	0.8	0.9	0.6	2.2	1.1	1.1	3.5	3.7	4.5	12.5	26.3	21.0	5.4

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TABLE 5.2-2C 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 _w																								
10M																								
MEAN	1.2	1.2	1.4	1.3	1.2	1.0	0.9	1.3	1.7	2.0	2.2	2.4	2.5	2.7	2.2	2.2	1.4	1.1	1.2	1.3	1.3	1.2	1.4	1.2
SIGMA	1.2	1.0	0.9	1.0	1.0	0.9	0.7	1.1	1.2	1.4	1.2	1.1	0.9	0.9	1.1	1.0	1.4	0.9	1.2	1.2	1.2	1.2	1.2	1.2
20M																								
MEAN	2.3	2.1	2.3	2.1	2.1	2.0	2.0	2.0	2.4	2.8	2.6	3.3	2.4	3.5	3.0	2.9	2.0	1.9	2.0	2.2	2.3	2.1	2.4	2.2
SIGMA	1.5	1.2	1.3	1.2	1.1	1.1	1.0	1.5	1.9	1.9	1.6	1.4	1.3	1.4	1.3	1.2	1.7	1.2	1.5	1.3	1.3	1.7	1.4	1.6
40M																								
MEAN	3.6	3.6	3.6	2.7	2.2	2.2	2.2	2.0	2.2	2.6	2.6	4.1	4.2	4.3	4.0	4.1	2.2	2.2	3.1	2.6	3.5	3.5	4.0	3.4
SIGMA	1.7	1.2	1.6	1.3	1.4	1.3	1.1	1.6	2.0	2.1	1.9	1.8	1.8	1.7	2.0	1.5	2.1	1.6	1.5	1.6	1.3	1.9	1.6	1.7
TEMPERATURE																								
MEAN	-0.9	-1.2	-1.4	-2.0	-1.8	-1.2	1.1	2.4	5.4	6.6	7.2	7.4	7.4	7.5	7.4	7.0	5.5	4.0	3.2	2.3	1.7	1.2	0.6	-0.0
SIGMA	3.6	3.7	4.0	4.0	4.0	4.9	4.5	3.8	3.4	3.4	3.6	3.5	2.5	3.7	2.5	2.2	3.0	3.2	3.4	3.4	3.5	3.7	3.6	3.7
HUMIDITY																								
MEAN	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
SIGMA	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
LAPSE RATE																								
MEAN	2.1	2.3	2.6	2.9	2.6	4.5	3.1	0.2	-0.6	-0.8	-0.8	-1.1	-1.0	-0.9	-0.5	-0.1	1.0	2.4	3.4	3.6	3.1	2.9	2.9	3.7
SIGMA	2.8	3.2	2.4	2.6	2.9	4.2	2.4	2.2	0.9	0.8	1.4	1.0	1.0	0.8	0.7	0.6	1.7	3.4	4.2	2.9	2.9	2.8	2.9	3.5
STABIL. RATIO																								
MEAN	0.7	1.9	0.7	1.2	1.5	1.6	0.9	-0.2	-0.4	-0.2	-0.2	-0.1	-0.1	-0.1	-0.0	-0.0	0.1	0.3	0.1	0.4	1.5	0.7	0.8	2.2
SIGMA	1.4	2.0	0.9	1.4	1.5	2.1	1.1	0.2	0.4	0.3	0.4	0.3	0.1	0.1	0.2	0.1	0.3	0.7	0.2	0.8	1.9	1.3	0.9	3.0
RADIA-TION																								
MEAN	-12.6	-12.9	-12.9	-12.7	-13.1	-12.6	-5.9	18.5	31.1	41.2	46.7	48.4	45.4	34.9	25.2	13.2	-11.6	-12.2	-13.0	-12.4	-13.5	-13.9	-13.7	-13.2
SIGMA	6.4	6.3	6.2	6.1	6.0	6.6	5.3	7.6	12.1	16.9	18.7	20.2	17.7	17.3	11.9	5.8	5.2	5.6	6.2	5.5	5.9	5.8	5.8	5.9

TABLE 5.2-2D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	24		1						1	4	1	4	4	2	7	1		
A-B	64	1	1	1				2	2	4	10	7	10	14	4	4	3	
B	69	1	1	2	1		3	2	4	2	4	2	10	20	4	1		
B-C	13			1				1	1	2	1		1	7				
C	27		3					2	2	1			6	6	4	1		
C-D	6													2	2			
D1	44		6					1	1	1		1	1	1	9	6	2	
D2	59		7						1	3		3	3	13	5	5		
E	11		2							1		1	1	1	1			
F	45		4							5		5	5	24	6	1		
G	258	12	8	2	2		1	2	5	6	6	31	41	107	53	22		
LACK	12									1	1	1	4	4	3			3

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TABLE 5.2- 2E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
-0.4	105																	0	105
0.5-0.9	6	5	1	1	2	2	2	1	1	1	7	5	13	21	53	27	6	0	148
1.0-1.9	10	5	2	1	2	2	2	4	4	2	3	4	19	32	81	18	12		148
2.0-2.9	9	8	4	4	1	1	2	4	4	1	2	9	3	11	47	14	2		201
3.0-3.9	2	14	4	1	1			4	4	1	2	3	2	6	18	2			120
4.0-4.9	1	13	4	4				1						6	18				59
5.0-5.9		2	2											6	3				28
6.0-6.9		1												1	1				7
7.0-7.9																			1
8.0-8.9																			0
9.0-9.9																			0
10.0-																			0
LACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
TOTL	105	28	49	17	2	6	3	6	14	5	15	21	37	77	203	61	20	3	672
40M																		0	13
-0.4	13																		13
0.5-0.9	5	1	2	1	1	2	2	1	1	1	1	3	1	4	5	1	1	0	13
1.0-1.9	10	4	1	1	4	2	2	1	1	1	7	2	7	7	14	9	4		58
2.0-2.9	12	2	4	1	1	1	1	1	1	1	6	10	6	13	45	20	10		151
3.0-3.9	7	7	2	1				2	4	1	7	5	6	21	47	42	10		162
4.0-4.9	2	9	2	1				1			2	2	2	16	33	35	8		131
5.0-5.9		11	2	2							2	2	2	11	17	12	1		62
6.0-6.9		4	4	2							3	3	3	1	6	3	1		27
7.0-7.9		4	4								1	1	1	3	3	3	1		18
8.0-8.9		1	2										2	3	1				9
9.0-9.9		1												3	1				2
10.0-																			0
LACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23
TOTL	13	37	40	17	5	6	4	14	7	7	23	24	29	61	171	136	35	23	672

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TABLE 5.2- 2A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/CCM/DAY	NET RAD. CAL/CCM/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	8.5	**	0.0	232.2	-127.2	2.0	**	5.0
2	6.2	**	1.0	100.8	-66.7	2.8	**	4.9
3	5.9	**	4.5	190.8	-84.1	1.5	**	3.0
4	0.9	**	0.0	285.6	-138.7	2.5	**	4.2
5	-0.1	**	0.0	221.6	-262.3	2.5	**	5.6
6	-0.1	**	0.0	477.6	-241.9	1.0	**	2.4
7	3.2	**	0.0	430.8	-144.7	1.8	**	3.4
8	7.7	**	0.0	406.8	-148.2	1.4	**	2.8
9	12.6	**	0.0	363.0	-111.1	2.8	**	5.5
10	6.0	**	0.0	427.2	-142.5	1.3	**	2.9
11	4.9	**	0.0	482.4	-148.9	1.3	**	2.5
12	5.6	**	0.0	359.4	-112.2	1.3	**	2.7
13	7.2	**	0.0	245.4	-87.9	1.4	**	2.6
14	8.7	**	1.0	444.6	-75.7	1.9	**	3.6
15	10.6	**	0.0	445.8	-146.5	1.3	**	2.9
16	6.9	**	0.0	315.0	-125.5	1.1	**	2.1
17	7.6	**	12.0	132.6	-62.5	1.6	**	3.4
18	7.5	**	0.5	237.6	-35.5	3.2	**	5.5
19	7.5	**	5.0	124.2	-42.2	2.2	2.6	5.0
20	7.2	**	0.0	329.0	-152.5	1.4	1.6	2.8
21	4.6	**	0.0	522.2	-226.3	2.1	2.4	3.8
22	6.1	**	0.0	409.2	-124.5	1.6	1.8	3.0
23	8.8	**	0.0	246.0	-54.1	1.2	1.5	2.5
24	10.1	**	9.5	**	-28.3	2.8	3.2	3.2
25	7.3	**	0.0	494.4	-150.5	2.8	3.9	5.0
26	7.9	**	0.0	665.0	-151.2	1.5	2.5	3.3
27	6.5	**	9.0	225.0	-67.2	3.5	4.4	6.1
28	5.1	**	0.0	510.6	-109.5	3.0	3.8	4.8
29	5.9	**	0.0	376.9	-62.5	2.1	2.9	3.7
30	5.7	**	40.5	88.2	-19.9	5.2	6.2	8.6
31	10.4	**	6.5	147.0	-13.9	1.6	2.3	3.2
MONTH	6.5	**	89.5	323.9	-112.5	2.1	**	3.9
LACK	20	744	0	5	2	4	427	22

TABLE 5.2- 3B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

CALM	MNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNN	NW	NNW	N	
10M	17.0	3.8	8.1	19.2	7.2	4.7	2.6	2.4	2.3	3.4	1.1	2.4	2.0	1.1	2.0	10.0	2.6
40M	2.2	5.8	14.0	19.3	6.6	3.7	3.2	2.3	0.7	1.7	2.0	1.1	3.9	9.3	13.7	5.1	5.1

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TABLE 5.2-2E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
-0.4	126																	0	126
0.5-0.9	11	8	4	4	6	1	2	1	2	2	2	5	5	12	21	23	7	0	123
1.0-1.9	10	16	16	7	8	7	8	5	2	2	4	4	4	11	29	23	6	0	159
2.0-2.9	7	19	27	15	16	7	7	7	6	5	4	5	4	5	4	9	1	0	135
3.0-3.9		5	21	15	5	4	3	3	2	2	2	1	1	7	7	7	3	0	86
4.0-4.9		7	27	10	3	4	2	4	2	3	3	1	1	1	1	1	1	0	56
5.0-5.9		2	13	3	1	2	1	1	2	1	5							0	28
6.0-6.9		2	14	7	2	1	1	2	1	1								0	17
7.0-7.9		7	7	1	2	2												0	9
8.0-8.9		1	1															0	1
9.0-9.9																		0	0
10.0-																		0	0
LACK	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	4
TOTL	126	28	60	142	54	35	19	18	17	25	8	18	15	28	55	74	19	3	744
40M	16																	0	16
-0.4	16																	0	16
0.5-0.9	2	2	1	1	2	2	1	2	2	2	4	2	1	2	3	1	1	0	23
1.0-1.9	12	6	6	6	9	7	7	3	3	2	4	5	1	8	14	22	10	0	116
2.0-2.9	12	12	8	9	6	7	8	3	3	1	1	4	4	7	23	15	13	0	130
3.0-3.9	7	27	24	11	7	4	10	4	4	1	1	4	4	4	15	28	9	0	155
4.0-4.9	5	24	22	14	2	3	2	6	2	2	2	2	3	4	5	16	2	0	110
5.0-5.9	1	10	16	4	3	1	1	2	1	3	3	4	4	4	4	4	2	0	51
6.0-6.9	1	5	22	3	3	1	1	1	2	1	1	1	1	3	3	5	2	0	45
7.0-7.9		3	12	4	4	2	2	1	2	1	4	1	1	3	2	3	3	0	22
8.0-8.9		4	8	1	1	1	1	1	1	4	1	1	1	2	2	2	2	0	20
9.0-9.9		2	7	1	1	1	1	1	1	1	1	1	1	2	2	2	1	0	14
10.0-		4	13	0	0	0	0	1	0	0	1	0	0	1	0	1	0	0	20
LACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	22
TOTL	16	42	101	139	48	27	23	24	24	5	12	22	8	28	67	99	37	22	744

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TABLE 5.2- 4A DAILY AVERAGES

DATE	AIR TEMP. C/DEC	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SCCM/DAY	NET RAD. CAL/SCCM/DAY	WIND		WIND		WIND	
						SPD(10) M/S	SPD(20) M/S	SPD(10) M/S	SPD(20) M/S	SPD(10) M/S	SPD(20) M/S
1	8.6	**	0.0	353.8	-53.6	1.2	1.2	1.2	1.8	1.2	1.8
2	9.4	**	0.0	477.6	-108.0	2.4	2.6	2.4	3.5	2.4	3.5
3	7.8	**	0.0	429.6	-166.2	2.5	3.0	2.5	4.6	2.5	4.6
4	5.4	**	0.0	601.2	-123.8	1.2	1.8	1.2	2.9	1.2	2.9
5	7.4	**	0.0	604.8	-127.4	2.3	2.5	2.3	3.6	2.3	3.6
6	8.6	**	0.5	371.4	-94.2	3.1	3.8	3.1	5.1	3.1	5.1
7	7.4	**	9.0	127.4	-92.0	5.4	5.8	5.4	8.1	5.4	8.1
8	6.5	**	0.0	219.2	-69.0	3.2	3.7	3.2	4.9	3.2	4.9
9	6.8	**	4.5	102.6	-23.6	4.2	4.9	4.2	6.4	4.2	6.4
10	8.8	**	1.5	486.6	-54.0	1.5	1.7	1.5	2.4	1.5	2.4
11	10.2	**	1.0	524.2	-109.2	1.5	2.0	1.5	3.2	1.5	3.2
12	12.9	**	0.5	265.8	-27.2	1.8	2.1	1.8	3.2	1.8	3.2
13	10.7	**	22.0	135.6	-24.6	2.9	3.5	2.9	4.6	2.9	4.6
14	12.1	**	0.0	441.0	-21.2	0.8	1.1	0.8	1.4	0.8	1.4
15	14.0	**	0.0	127.4	-7.2	0.8	0.7	0.8	1.1	0.8	1.1
16	15.1	**	2.0	253.8	-17.4	4.0	4.8	4.0	6.9	4.0	6.9
17	13.5	**	10.0	**	-35.1	2.2	2.3	2.2	4.0	2.2	4.0
18	13.4	**	0.0	252.4	-57.6	2.5	2.6	2.5	3.5	2.5	3.5
19	9.8	**	0.0	580.8	-144.6	1.7	2.1	1.7	2.8	1.7	2.8
20	12.9	**	0.0	605.4	-145.2	2.1	2.8	2.1	4.3	2.1	4.3
21	**	**	0.0	604.8	-166.8	3.1	3.2	3.1	5.0	3.1	5.0
22	**	**	0.0	591.6	-124.2	2.8	1.5	2.8	3.9	2.8	3.9
23	20.2	**	0.0	567.0	-109.2	2.0	2.0	2.0	3.6	2.0	3.6
24	16.5	**	0.0	323.4	-86.4	3.1	3.1	3.1	4.5	3.1	4.5
25	19.8	**	0.0	327.0	-19.8	2.4	3.6	2.4	5.2	2.4	5.2
26	19.1	**	0.0	348.0	-70.2	2.3	2.5	2.3	3.7	2.3	3.7
27	17.5	**	0.0	469.8	-49.8	3.3	3.4	3.3	4.6	3.3	4.6
28	21.2	**	9.0	309.4	-64.2	3.2	3.8	3.2	6.0	3.2	6.0
29	17.4	**	2.5	721.1	**	1.9	2.2	1.9	2.8	1.9	2.8
30	16.6	**	0.0	700.4	-185.6	1.7	2.2	1.7	3.4	1.7	3.4
MONTH	12.7	**	62.5	412.1	-85.6	2.5	2.8	2.5	4.1	2.5	4.1
LACK	68	720	0	12	14	14	38	14	38	14	38

TABLE 5.2- 4B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10.7	2.8	6.9	21.8	7.9	4.6	2.8	2.5	4.4	4.4	3.1	5.5	2.7	3.9	7.6	5.9	2.4
3.6	2.7	12.9	19.2	5.9	2.4	3.5	3.6	6.5	2.7	5.8	3.8	2.9	2.2	8.4	9.1	3.6

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TABLE 5.2-4C HOURLY AVERAGES AND STANDARD DEVIATIONS

TIME(HR)	1	2	3	4	5	6	7	8	9	10	11	12	12	14	15	16	17	18	19	20	21	22	23	24
WIND SPD																								
H=																								
10M																								
MEAN	1.1	1.1	1.3	1.6	1.7	1.8	2.0	2.4	2.2	2.3	2.9	2.8	4.0	3.9	4.2	3.6	2.5	2.6	2.1	1.9	1.6	1.7	1.5	1.5
SIGMA	1.2	1.2	1.5	1.7	1.8	1.8	1.9	1.6	1.6	1.9	1.7	1.6	1.6	1.5	1.7	2.1	1.9	1.7	1.6	1.3	1.3	1.6	1.2	1.3
20M																								
MEAN	1.7	1.7	1.5	2.1	2.4	2.2	2.5	2.5	2.2	2.6	2.8	3.8	4.2	4.0	4.4	4.1	2.6	3.1	2.4	2.3	2.0	2.0	2.0	1.8
SIGMA	1.4	1.5	1.6	1.8	1.9	2.0	2.1	1.8	1.7	2.0	2.0	1.8	2.0	1.7	1.9	2.3	2.2	1.8	1.8	1.6	1.7	1.9	1.6	1.4
40M																								
MEAN	2.9	2.6	2.1	2.5	2.7	2.5	2.6	2.4	4.5	4.8	5.4	5.0	5.7	5.6	5.7	5.4	5.2	4.6	3.8	3.4	2.1	3.2	3.2	2.6
SIGMA	1.9	1.8	2.2	2.4	2.2	2.5	2.5	2.5	2.5	2.7	2.8	2.5	2.9	2.7	2.8	3.2	2.7	2.3	2.6	2.3	2.2	2.5	2.0	1.8
TEMPERATURE																								
MEAN	10.6	10.0	9.8	9.9	9.7	10.2	11.7	12.4	14.0	14.7	15.8	16.2	15.9	15.2	15.1	14.7	14.0	13.2	12.4	12.0	11.7	11.5	11.4	10.8
SIGMA	5.3	5.4	5.7	5.9	6.2	6.1	5.1	4.7	5.2	5.0	5.9	6.1	5.0	5.2	5.3	5.4	5.4	5.4	4.8	4.6	4.9	4.9	5.1	5.1
HUMIDITY																								
MEAN	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
SIGMA	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
LAPSE RATE																								
MEAN	1.6	2.1	2.2	2.3	2.5	1.6	0.1	-0.8	-1.2	-1.4	-2.0	-2.1	-2.1	-1.7	-1.2	-1.0	-0.6	-0.2	0.7	1.6	1.9	1.8	1.7	2.2
SIGMA	2.5	2.5	3.2	3.6	3.6	3.2	1.4	1.2	1.2	1.2	2.7	2.8	2.2	1.1	1.0	0.9	0.7	0.8	2.1	2.7	2.8	3.4	3.8	4.0
STABIL. RATIO																								
MEAN	0.2	0.4	0.6	0.2	1.5	0.2	-0.1	-0.1	-0.1	-0.2	-0.1	-0.2	-0.2	-0.2	-0.1	-0.2	-0.0	-0.0	0.1	0.3	0.7	0.9	0.6	1.4
SIGMA	1.0	1.0	1.2	0.8	2.9	0.6	0.4	0.4	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.1	0.2	0.7	0.9	2.4	2.1	1.7	3.0
RADIATION																								
MEAN	-6.8	-6.8	-6.4	-6.5	-6.5	-1.6	18.6	27.5	44.6	50.0	52.8	55.7	47.1	47.2	35.6	20.0	8.2	-6.1	-8.2	-8.0	-7.2	-7.4	-6.9	-7.1
SIGMA	5.3	5.4	5.2	5.0	4.8	1.7	10.9	16.6	22.2	26.1	26.1	27.2	25.8	23.5	15.1	10.2	4.8	4.8	5.2	5.4	5.3	5.2	5.1	5.5

TABLE 5.2-4D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ESE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNN	NW	NNW	N	LACK
A	5				1	2	3	1	1									
A-B	60		1	5	10	9	4	6	6			3	5	3	3	8	3	
B	62		2	6	8	4	4	6	8		2	1	1	5	4	4		
B-C	11			4	2							1			1		1	
C	52			17	8		1		4		7	6	2					
C-D	24		1	9	5				4		4	1						
D1	55		2	14	26	5	1	4	2	5	5	14	1	2	6	1	1	
D2	122		5	15	44	14	10	3	6	3	2	8	4	5	6	2	2	
E	22		2	8	3													
F	29		1	6	11	1	1								1	2	4	1
G	189		11	10	20	9	12	4	6	3	4	7	10	16	42	27	8	
LACK	34		1					1					1	2	7	5	1	10

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TABLE 5.2- 4E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
-0.4	76																	0	76
0.5-0.9		5	5	12	10	9	2	2	6	3	4	2	4	12	18	16	4	0	76
1.0-1.9		6	9	16	16	17	9	8	6	4	1	8	5	9	26	13	7		117
2.0-2.9		1	10	19	10	7	6	4	5	4	2	4	6	4	5	6	4		160
3.0-3.9		5	8	24	9	9	2	3	9	6	1	1	2	2	4	7	2		103
4.0-4.9		2	7	23	4	4		2	1	5	8	6	2	2					97
5.0-5.9		1	6	26	2				1	5	9	6	2						58
6.0-6.9		3	13	2					3	3	6	6							52
7.0-7.9		1	8						1	1	1	3							28
8.0-8.9			1									3							13
9.0-9.9												1							2
10.0-																			0
LACK		0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	14
TOTL	76	20	49	155	56	33	20	18	31	31	22	39	19	26	54	42	17	10	720
40M																			
-0.4	27																		0
0.5-0.9		3	7	7	5	1	2		4	1	2	1	4	4	3	3	4	0	27
1.0-1.9		5	15	15	5	4	7	11	7	3	2	2	4	4	7	12	6		40
2.0-2.9		7	16	16	10	4	11	4	6	1	2	4	2	10	25	15	4		99
3.0-3.9		2	16	19	8	7	3	2	9	4	4	6	4	2	18	13	4		124
4.0-4.9		2	16	15	6	1	1	5	9	4	6	2	4	2	2	7	1		125
5.0-5.9		1	12	19	1	1	1	2	5	2	3	2	2	2	4	6	4		67
6.0-6.9		1	16	10	6			1	2	1	1	1	1	1	1	6	1		36
7.0-7.9		1	7	20	1				3	2	5	4	1	1	1	1	1		56
8.0-8.9		1	7	8					1	1	9	6			2	2	2		37
9.0-9.9			4	4							2	3							10
10.0-			3	4							7	3							17
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
TOTL	27	15	92	127	42	17	25	26	46	19	41	27	21	23	60	65	26	7	720

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TABLE 5.2-5A DAILY AVERAGES

DATE	AIR TEMP. C. DEG	HUMID-ITY PERCENT	PRECIP-ITAT. MM	SOLAR RAD. CAL/CM/DAY	NET RAC. CAL/CM/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	17.5	51.2	0.0	643.2	-122.0	2.6	3.9	5.3
2	16.5	**	0.0	141.4	-69.0	2.2	4.6	6.7
3	17.0	54.6	0.0	652.8	-153.6	2.1	2.8	3.9
4	10.7	74.5	0.0	158.4	-45.6	2.2	4.2	5.5
5	12.6	55.1	22.0	100.8	-15.6	1.2	1.9	2.8
6	17.1	60.6	0.0	633.0	-62.0	2.4	3.4	4.3
7	15.2	71.3	0.0	243.0	-123.2	1.0	1.6	2.5
8	15.1	61.6	0.0	643.2	-198.6	2.0	3.1	4.9
9	12.5	**	0.0	677.2	-112.4	1.2	1.9	2.7
10	16.0	**	0.0	643.2	-157.2	2.2	3.4	4.3
11	15.5	**	0.0	643.2	-125.4	2.1	2.0	2.9
12	15.5	**	0.0	589.9	-106.8	1.5	2.0	2.8
13	16.6	**	0.0	632.6	-115.2	1.2	1.8	2.4
14	15.2	**	0.0	**	-102.5	1.8	2.6	3.5
15	16.4	**	197.0	71.3	-31.2	2.4	3.6	5.8
16	14.9	42.6	0.0	663.0	-122.4	2.4	4.5	7.6
17	14.1	50.5	0.0	743.0	**	2.1	2.9	4.6
18	**	**	**	**	-209.0	**	**	**
19	17.6	59.2	0.0	730.0	-169.8	2.2	3.5	5.1
20	15.1	58.2	0.0	590.7	-173.4	1.8	2.6	3.5
21	14.5	55.2	0.0	658.2	-142.4	2.0	4.0	5.2
22	13.0	62.2	0.0	584.4	-118.8	1.9	2.5	3.1
23	13.0	72.2	0.0	697.2	-91.2	2.8	3.7	4.6
24	14.1	72.4	0.0	412.8	-72.6	2.0	2.8	4.5
25	16.3	79.9	2.0	254.4	-60.8	1.8	2.7	3.7
26	16.2	86.0	7.5	125.4	-30.6	1.1	1.8	2.4
27	15.7	84.0	0.0	461.4	-39.6	2.0	2.7	3.2
28	15.4	83.0	0.0	428.6	-72.0	1.7	2.2	2.9
29	14.5	83.0	0.0	412.2	-32.4	2.6	3.2	4.0
30	15.1	82.2	0.0	405.6	-21.6	3.4	4.6	5.5
31	17.0	80.5	0.0	448.2	-24.6	3.3	4.3	5.2
MONTH	15.2	71.6	135.5	482.2	-98.1	2.2	3.1	4.2
LACK	55	243	45	39	15	54	54	54

TABLE 5.2-5B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

CALM	NNE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNN	NW	NNW	N
10M	8.8	9.2	22.0	2.0	1.7	2.6	4.5	7.5	4.1	5.4	2.3	4.1	6.1	7.5	1.9
40M	1.2	7.5	22.3	6.5	1.7	1.9	4.5	7.2	6.1	2.6	3.6	4.1	7.5	10.7	3.9

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TABLE 5.2-50 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	1.5	1.4	1.6	1.7	1.7	1.8	2.3	2.6	2.7	2.6	2.0	3.3	3.5	3.2	3.5	2.9	2.3	2.0	1.9	1.7	1.7	1.4	1.7
SIGMA	1.4	1.2	1.1	1.3	1.1	1.2	1.1	1.0	1.0	1.0	1.1	1.2	1.4	1.2	1.4	1.2	1.5	1.4	1.4	1.2	1.2	1.5	1.1	1.4
20M																								
MEAN	2.4	2.3	2.3	2.6	2.7	2.6	2.6	3.1	3.4	3.6	2.9	4.0	4.4	4.6	4.1	4.5	3.9	3.2	2.9	2.9	2.7	2.5	2.2	2.5
SIGMA	1.7	1.6	1.4	1.5	1.2	1.6	1.5	1.5	1.4	1.4	1.6	1.7	1.9	1.7	1.7	1.7	1.9	1.7	1.8	1.4	1.5	2.0	1.4	1.7
40M																								
MEAN	2.5	2.5	2.5	2.9	2.9	3.7	3.2	3.5	4.4	4.5	4.7	4.8	5.4	5.7	5.4	5.8	5.2	4.4	4.2	4.1	3.9	3.6	3.3	4.0
SIGMA	2.4	2.4	2.2	1.8	1.7	2.1	1.9	2.0	2.0	1.9	2.2	2.3	2.3	2.5	2.3	2.3	2.2	2.0	1.9	1.6	1.8	2.4	1.8	2.4
TEMPERATURE																								
MEAN	12.2	12.6	12.5	12.2	12.1	12.0	14.5	16.0	16.9	17.6	18.2	18.2	18.2	18.0	17.9	17.6	16.7	16.3	15.7	15.4	15.1	14.6	13.9	13.6
SIGMA	2.7	2.0	2.0	2.2	2.1	2.4	2.0	2.4	2.8	2.1	2.2	2.2	2.2	2.2	2.1	2.9	2.2	2.2	1.9	1.8	1.9	2.2	2.3	2.6
HUMIDITY																								
MEAN	74.8	76.5	77.9	76.2	77.9	76.0	72.3	67.7	65.6	61.7	64.6	65.7	65.3	71.1	68.1	69.2	69.6	73.0	71.0	70.2	70.1	72.0	73.0	75.1
SIGMA	12.6	12.6	13.0	14.5	14.2	14.0	16.9	19.4	20.1	18.3	16.7	17.6	16.9	11.8	14.6	14.5	16.0	13.9	17.4	17.5	17.2	14.4	13.8	12.5
LAPSE RATE																								
MEAN	2.0	2.5	2.7	2.5	2.7	0.5	-1.5	-2.1	-2.6	-2.6	-2.1	-3.2	-3.0	-2.7	-2.7	-2.3	-1.8	-1.0	-0.2	0.1	0.5	1.3	2.0	2.0
SIGMA	3.6	4.1	4.4	4.6	4.5	2.4	0.8	0.7	0.9	2.7	1.1	1.1	1.1	0.9	0.9	0.8	0.6	1.0	2.2	2.1	2.3	2.9	3.5	4.0
STABIL. RATIO																								
MEAN	0.3	1.2	1.5	0.9	1.9	-0.0	-0.5	-0.7	-0.5	-0.5	-0.4	-0.5	-0.2	-0.3	-0.2	-0.3	-0.3	-0.3	-0.1	0.2	0.5	0.4	0.3	0.9
SIGMA	1.2	2.0	2.7	2.1	2.4	0.6	0.4	0.8	0.4	0.5	0.3	0.5	0.2	0.3	0.3	0.3	0.4	0.5	0.7	1.2	1.7	1.2	1.3	2.1
RADIATION																								
MEAN	-6.2	-7.9	-7.5	-6.9	-4.6	-0.2	21.8	35.2	47.7	56.2	64.1	59.8	57.3	50.6	43.6	30.8	16.6	-7.2	-10.6	-9.8	-9.0	-9.0	-8.9	-8.3
SIGMA	5.2	5.2	4.9	4.9	4.6	0.7	11.1	17.8	21.6	28.5	28.0	28.9	28.2	26.0	19.4	13.3	6.8	5.5	6.3	6.4	5.7	5.5	5.2	5.2

TABLE 5.2-50 FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	15			1	2	1	4			1	1	1	1	1		1	
A-B	58	1	3	9	4	4	7			2	4	4	4	3	3	2	
B	50	2	22	13	5	7	9	5	3	4	2	4	4	6		1	
B-C	15	1	10	2				1									
C	55	6	20	3				1	6	5	2	3	5	2			
C-D	13	4	4	1				4		1	1	2	1	2			
D1	56	6	15	1	1	2	6	12	2	7	1	2	1	2	1		
D2	111	16	26	3	1	3	2	6	5	3	2	5	8	9	5	4	
E	37	6	16	1				5	4	2	1	1	1	1			
F	27	8	10					4	2	4	2	2	2	6		1	
G	202	19	19	4	6	5	2	4	7	13	8	11	15	43	20	11	6
LACK	54																

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TABLE 5.2-5E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	10M													LACK	TOTAL				
	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SN	WSW	W			WNW	NW	MNW	N
-0.4	61																	0	61
0.5-0.9		4	5	3	5	3	2	2	6	4	4	3	5	20	14	7	5	0	61
1.0-1.9		17	23	7	3	4	5	10	9	7	9	15	26	26	7	5	3		95
2.0-2.9		20	44	13	4	4	8	12	5	5	2	2	5	12	12	4	5		161
3.0-3.9		12	51	12	2	1	2	6	7	6	5	2	3	1	6	2			162
4.0-4.9		7	25	1				8	8	7	7	2	2	2	8				122
5.0-5.9		3	2	2				6	1	6	2	1	1	1	5				61
6.0-6.9																			25
7.0-7.9																			3
8.0-8.9																			0
9.0-9.9																			0
10.0-																			0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
TOTAL	61	64	152	38	14	12	18	21	28	27	16	16	28	56	52	18	13	54	744

40M	40M													LACK	TOTAL				
	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SN	WSW	W			WNW	NW	MNW	N
-0.4	8																	0	8
0.5-0.9		1	2	2	2	2	2	1	1	1	6	6	3	1	1	1	1	0	8
1.0-1.9		2	7	7	2	5	7	5	1	3	2	10	8	14	12	5	7		72
2.0-2.9		7	12	16	4	4	5	13	6	2	4	9	9	19	19	6	3		118
3.0-3.9		20	26	10	4	4	5	11	6	2	4	4	9	10	10	4	1		156
4.0-4.9		8	26	10	4	1	5	6	3	1	3	4	4	8	7	6	1		109
5.0-5.9		2	25	4				11	8	6	3	1	1	5	11		1		81
6.0-6.9		7	20	4				3	3	3	1	1	1	1	1	1	1		52
7.0-7.9		2	13	1				2	3	7	1	1	3	4	3	3	1		45
8.0-8.9		2	3	2				1	2	2	2	2	2	3	3	1			15
9.0-9.9			2	2				1	1	4	1	3	2	3	3				16
10.0-				1					0	4	0	2	0	2	4				11
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54
TOTAL	8	52	161	45	12	13	21	25	28	29	25	28	52	74	27	13	54	54	744

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TABLE 5.2- 6A DAILY AVERAGES

DATE	AIR TEMP. C. DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SCM/DAY	NET RAD. CAL/SCM/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	16.6	77.7	1.0	590.4	-64.6	2.4	3.1	2.9
2	19.1	61.2	9.0	236.4	-19.2	4.4	5.7	6.9
3	20.4	75.9	18.0	701.4	-50.4	1.6	2.1	2.7
4	21.2	68.5	0.0	660.6	-61.6	1.1	1.4	2.2
5	21.2	72.6	0.5	693.0	-71.4	1.9	2.5	3.5
6	21.5	79.2	0.0	492.0	-61.2	1.8	2.4	3.3
7	20.7	83.2	0.0	295.2	-45.0	0.6	0.9	1.5
8	20.6	74.7	0.0	660.6	-91.0	2.1	2.7	3.3
9	**	**	**	**	-84.6	**	**	**
10	**	**	**	**	**	**	**	**
11	20.1	79.5	0.0	499.5	-58.2	1.9	2.5	2.9
12	21.1	80.4	9.5	429.0	-48.0	1.3	1.7	2.3
13	21.3	74.5	0.0	606.1	-93.4	2.0	2.7	3.6
14	18.7	70.9	0.0	500.1	-120.0	1.7	2.4	3.4
15	15.8	67.3	0.0	261.6	-57.8	1.5	2.2	2.9
16	16.5	76.9	0.5	407.4	-28.8	3.7	5.0	6.2
17	17.2	83.6	16.0	234.7	-25.2	3.9	5.0	6.2
18	15.7	86.6	18.5	121.8	-20.4	4.9	6.5	7.9
19	15.6	80.5	2.0	372.0	-36.0	4.8	6.2	7.9
20	16.3	76.7	0.0	618.6	-119.4	3.9	5.1	6.2
21	16.2	78.0	0.0	554.4	-132.0	3.8	4.9	6.0
22	16.0	71.3	0.0	549.0	-81.0	3.2	4.2	4.8
23	15.8	77.7	0.5	261.6	-30.0	3.4	4.3	5.4
24	16.6	87.2	19.0	174.0	-20.4	3.4	4.5	5.7
25	17.4	89.1	24.0	150.0	-12.6	3.1	4.1	5.3
26	17.5	87.1	0.0	471.6	-21.2	2.6	3.4	4.2
27	16.9	87.7	0.0	272.4	-54.6	1.1	1.6	1.9
28	18.2	84.2	0.0	549.0	-55.8	1.9	2.6	3.2
29	20.2	81.8	0.0	583.8	-58.2	2.7	3.5	4.1
30	20.2	83.7	0.0	408.6	-34.2	3.3	4.3	5.3
MONTH	16.5	79.1	118.5	446.6	-56.6	2.6	3.5	4.4
LACK	55	55	50	31	24	55	55	55

TABLE 5.2- 6B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

10M	40M	CALM	NNE	N	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
6.0	22.2	20.8	7.7	2.2	0.9	1.8	3.9	9.8	6.5	1.4	1.2	1.5	1.2	1.4	2.0	3.8	0.9	0.9
2.1	21.2	24.2	7.7	1.1	0.9	1.7	8.3	6.5	1.8	1.4	1.5	1.5	0.6	1.1	2.2	6.3	1.7	1.2

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TABLE 5.2-60 HOURLY AVERAGES AND STANDARD DEVIATIONS

TIME(HR)	1	2	3	4	5	6	7	8	9	10	11	12	12	14	15	16	17	18	19	20	21	22	23	24	
WIND SPD																									
H=10M																									
MEAN	1.9	1.8	1.5	1.8	1.8	2.1	2.4	2.6	2.6	2.1	3.4	3.4	3.6	3.6	2.7	3.5	3.4	3.0	2.6	2.5	2.2	2.2	2.2	2.0	2.0
SIGMA	1.5	1.3	1.5	1.4	1.5	1.3	1.5	1.4	1.4	1.5	1.4	1.4	1.4	1.2	1.2	1.1	1.3	1.5	1.3	1.3	1.4	1.4	1.6	1.6	1.5
H=20M																									
MEAN	2.6	2.6	2.7	2.6	2.5	2.9	3.0	3.4	3.5	2.9	4.4	4.3	4.5	4.6	4.6	4.5	4.4	4.0	3.6	3.4	3.0	2.1	2.9	2.8	2.8
SIGMA	1.9	1.6	1.9	1.8	1.9	1.7	2.0	1.8	1.9	2.0	2.0	1.9	1.8	1.6	1.6	1.5	1.8	1.9	1.6	1.5	1.8	2.0	2.0	2.0	1.8
H=40M																									
MEAN	3.5	3.6	3.7	3.7	3.5	3.2	2.7	4.0	4.0	4.6	5.2	5.1	5.2	5.4	5.4	5.4	5.4	5.0	4.7	4.5	3.9	4.1	4.0	3.7	3.7
SIGMA	2.1	1.8	2.2	2.0	2.1	1.9	2.2	2.2	2.2	2.5	2.5	2.4	2.2	2.0	1.9	2.0	2.2	2.3	2.0	1.8	2.0	2.2	2.1	2.1	2.1
TEMPERATURE																									
MEAN	17.3	17.3	17.2	17.2	17.0	17.5	18.2	19.0	19.2	19.5	19.9	19.8	19.6	19.6	19.6	19.5	19.1	18.6	18.3	18.1	18.0	17.8	17.7	17.6	17.6
SIGMA	2.0	1.9	1.8	1.8	1.7	1.9	2.2	2.0	2.2	2.5	2.8	2.7	2.7	2.7	2.5	2.6	2.4	2.3	2.2	2.1	2.1	2.3	2.2	2.2	2.2
HUMIDITY																									
MEAN	82.8	82.8	82.8	82.2	82.3	81.0	78.9	76.7	75.4	74.2	72.2	72.6	74.1	74.8	75.0	75.9	77.4	79.6	81.6	81.8	82.2	82.5	82.7	82.7	82.7
SIGMA	5.9	6.7	6.9	6.5	6.5	7.7	10.1	11.1	11.4	11.2	10.4	10.3	9.9	8.5	8.6	8.1	6.5	5.8	5.5	6.5	6.9	6.1	6.2	6.2	6.0
LAPSE RATE																									
MEAN	-0.0	-0.4	-0.2	-0.1	-0.0	-1.2	-1.7	-2.1	-2.4	-2.6	-2.1	-2.2	-2.0	-2.9	-2.7	-2.4	-2.1	-1.6	-1.3	-0.9	-0.7	-0.5	-0.3	-0.1	-0.1
SIGMA	1.5	1.0	1.2	1.3	1.6	0.5	0.6	0.6	0.8	0.9	0.9	1.1	1.0	0.9	0.7	0.6	0.5	0.5	0.5	0.9	1.2	1.5	1.6	1.8	
STABIL. RATIO																									
MEAN	-0.2	-0.2	-0.2	-0.0	-0.0	-0.4	-0.5	-0.5	-0.5	-0.4	-0.5	-0.4	-0.3	-0.2	-0.2	-0.2	-0.3	-0.4	-0.3	-0.2	-0.2	-0.2	-0.2	-0.1	-0.2
SIGMA	0.2	0.2	0.2	0.4	0.5	0.5	0.7	0.6	0.5	0.6	0.4	0.5	0.4	0.3	0.2	0.2	0.5	0.5	0.3	0.2	0.1	0.3	0.3	0.3	0.3
RADIATION																									
MEAN	-4.6	-4.5	-4.5	-4.1	-2.2	-0.1	20.4	21.5	39.5	49.2	59.6	56.2	51.5	48.4	40.6	28.4	17.5	6.8	-6.9	-6.6	-6.2	-6.0	-5.6	-5.5	
SIGMA	3.1	3.1	3.5	3.4	2.4	0.0	11.6	15.9	20.7	25.6	24.4	29.5	26.5	23.6	18.9	13.2	8.6	2.4	4.2	4.8	4.1	4.1	4.2	4.0	

TABLE 5.2-60 FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	16		1	2		3	1	4			1	1						
A-B	56		4	15	10	2	6	9	1	2		1		1	3			
B	62	4	22	10	2	1		8	10		2	2		1	3			
B-C	20	4	11	2				3						1	1			
C	62	12	28	3	1			1	6									
C-D	28	4	17					7										
D1	82	26	27	4	1	1	1	15	2	1	1	1	1	3	4			
D2	127	57	48	2			1	10	1	1	1	1	1	2	4	2	4	
E	25	17	14					3	6									
F	32	15	11	1				6										
G	121	10	15	15	1		2	5	5	4	3	5	12	14	21	12	5	
LACK	55																	

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TABLE 5.2-6E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL	
-0.4	52																			
0.5-0.9	2	4	4	2	1	1	1	1	1	4	6	7	5	4	9	5	2	0	53	
1.0-1.9	9	20	21	3	2	8	10	5	5	1	1	1	4	9	16	1	3		58	
2.0-2.9	50	42	18	8	2	3	9	16	19	1	1	1	4	9	16	1	3		121	
3.0-3.9	45	75	7				5	19	11								1		149	
4.0-4.9	27	34	1				1	11	11										152	
5.0-5.9	12	28						9	9										74	
6.0-6.9	2	1						4	4										50	
7.0-7.9			1																7	
8.0-8.9																			1	
9.0-9.9																			0	
10.0-																			0	
LACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTL	52	148	205	51	15	6	12	26	65	9	8	8	9	13	25	6	6	55	720	

40M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
-0.4	14																		
0.5-0.9	3	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	1	0	14
1.0-1.9	2	10	5	1	1	2	2	4	4	4	5	3	2	3	10	5	3		11
2.0-2.9	5	19	23	2	4	6	7	2	2	4	3	1	2	8	17	1	2		64
3.0-3.9	14	21	15	2	1	2	12	5	2	2	4	1	2	4	12	4	1		108
4.0-4.9	26	40	5				11	10	1	1									96
5.0-5.9	34	61	3	1			10	6						2			1		106
6.0-6.9	17	26					6	3											116
7.0-7.9	12	27					4	3											52
8.0-8.9	14	14					1	6											46
9.0-9.9	3	6						2											35
10.0-	1	3						1											12
LACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
TOTL	14	141	228	51	7	6	11	55	42	12	10	4	7	15	42	11	8	55	720

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TABLE 5.2-7A DAILY AVERAGES

DATE	AIR TEMP. C.	HUMIDITY PERCENT	PRECIPITAT. MM	SOLAR RAD. CAL/CM/DAY	NET RAD. CAL/CM/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	20.1	88.5	1.0	193.8	-20.4	1.1	1.5	1.9
2	20.6	86.5	0.5	426.0	-40.2	1.6	2.1	2.8
3	21.7	84.3	0.0	515.5	-47.4	1.3	1.6	2.3
4	20.2	82.2	0.0	589.6	-56.4	2.2	2.8	3.4
5	19.7	84.9	0.0	465.0	-37.2	2.4	3.2	3.8
6	19.6	87.1	2.0	322.2	-27.0	1.7	2.2	2.7
7	18.9	82.5	1.0	407.0	-47.4	2.6	3.7	4.5
8	18.1	73.2	0.0	651.0	-132.6	3.2	4.3	5.3
9	19.1	77.7	0.0	662.4	-105.6	1.2	1.6	2.4
10	22.6	77.2	0.0	599.4	-58.2	2.2	3.2	4.2
11	21.9	88.5	24.5	57.0	-28.8	1.0	1.7	2.3
12	22.9	77.7	4.0	639.6	-72.6	1.4	1.9	2.6
13	26.8	77.9	0.0	297.2	-47.4	1.8	2.5	2.7
14	24.3	75.4	1.0	356.4	-59.4	0.9	1.0	1.9
15	22.7	79.4	1.0	537.6	-45.0	2.3	2.1	4.0
16	21.9	82.2	2.5	457.2	-32.4	2.5	2.2	3.9
17	22.3	84.5	7.0	205.8	-78.6	1.4	2.2	2.9
18	21.6	84.6	0.5	456.0	-63.6	1.9	2.5	3.1
19	22.1	85.7	9.0	354.0	-55.2	1.0	1.6	2.2
20	20.0	81.7	7.0	237.2	-60.0	2.8	3.6	4.4
21	20.4	76.7	0.0	624.2	-110.0	1.6	1.9	2.2
22	23.2	75.9	0.0	572.4	-78.0	**	**	3.6
23	23.6	75.7	0.0	600.6	-77.6	**	**	2.9
24	24.3	77.2	0.0	654.0	-55.6	**	**	4.1
25	25.0	77.4	0.0	507.0	-82.8	**	**	3.7
26	24.9	81.0	0.0	447.6	-71.5	**	**	3.2
27	24.6	83.0	0.0	**	-56.8	**	2.0	2.8
28	24.0	79.5	0.0	480.9	-62.3	1.0	1.7	2.5
29	24.1	82.9	0.0	**	-72.4	0.8	1.5	2.4
30	24.0	83.8	0.0	**	-57.1	0.6	1.2	2.2
31	25.2	77.4	0.0	582.8	-74.4	1.7	2.3	3.2
MONTH	22.2	81.1	71.0	468.2	-63.5	1.7	2.4	3.2
LACK	35	39	24	29	10	178	177	40

TABLE 5.2-7B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	18.1	6.4	19.1	10.3	2.2	3.5	2.7	3.8	5.7	2.6	7.4	4.2	3.9	5.5	1.4	0.8	0.6
40M	2.7	4.5	20.7	12.1	2.4	2.6	3.8	7.2	4.4	4.8	8.5	7.1	5.5	6.1	3.8	0.9	1.8

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TABLE 5.2-7C 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 SPC																								
H=																								
10M																								
MEAN	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.7	1.9	2.2	2.5	2.6	2.6	2.6	2.6	2.5	2.4	2.2	2.0	1.5	1.4	1.1	1.2	1.2
SIGMA	0.9	1.0	0.8	1.1	1.0	1.0	0.9	1.0	1.0	1.1	1.2	1.0	1.0	1.1	1.2	1.0	1.1	1.1	1.1	0.9	1.1	1.1	0.9	1.1
20M																								
MEAN	1.6	1.7	1.7	1.8	1.9	1.9	2.4	2.5	2.9	3.1	3.2	3.5	3.2	3.2	3.2	3.2	3.1	3.0	2.7	2.1	1.9	1.6	1.7	1.9
SIGMA	1.2	1.2	1.0	1.3	1.2	1.2	1.2	1.2	1.2	1.5	1.2	1.3	1.4	1.6	1.5	1.4	1.4	1.4	1.6	1.2	1.5	1.4	1.3	1.4
40M																								
MEAN	2.5	2.6	2.4	2.7	2.8	2.7	2.4	2.9	2.8	2.4	2.7	2.7	4.2	4.3	4.1	4.2	4.2	4.1	3.6	2.9	2.6	2.4	2.6	2.8
SIGMA	1.2	1.2	1.1	1.2	1.2	1.2	1.2	1.4	1.4	1.5	1.6	1.5	1.6	2.0	2.0	1.9	1.8	1.5	1.6	1.4	1.6	1.5	1.4	1.3
TEMPERATURE																								
MEAN	21.2	21.0	20.6	20.5	20.4	21.1	22.0	22.9	23.7	23.8	23.9	23.8	23.7	22.8	23.4	23.0	22.4	22.1	21.9	22.0	21.7	21.6	21.6	21.5
SIGMA	2.1	2.2	2.2	2.2	2.1	2.2	2.7	3.1	3.2	3.4	3.0	2.6	2.7	2.8	2.8	2.8	2.7	2.7	2.5	2.4	2.4	2.2	2.2	2.2
HUMIDITY																								
MEAN	86.6	86.5	86.6	87.4	87.9	86.0	82.2	80.5	76.9	75.2	74.5	74.0	72.9	73.6	72.2	74.8	76.7	76.3	81.4	82.2	83.8	84.5	85.2	86.0
SIGMA	4.1	3.8	4.0	2.6	2.5	3.9	5.1	7.1	7.8	8.1	8.6	8.2	8.6	7.9	8.3	7.7	7.2	6.8	5.7	5.2	4.0	4.7	3.8	3.6
LAPSE RATE																								
MEAN	-0.7	-0.4	-0.4	-0.4	-0.4	-1.2	-2.0	-2.4	-2.9	-3.1	-3.2	-3.4	-3.2	-3.3	-3.2	-2.8	-2.2	-2.0	-1.6	-1.1	-0.8	-0.7	-0.7	-0.6
SIGMA	1.0	1.1	1.2	1.2	1.2	0.7	0.6	0.9	0.8	0.8	0.8	1.0	1.2	0.8	0.6	0.6	0.5	0.4	0.6	1.1	1.1	1.1	1.1	1.2
STABIL. RATIO																								
MEAN	-0.4	-0.5	-0.2	**	-0.2	-0.5	-0.7	-0.8	-1.0	-0.9	-0.7	-0.7	-0.4	-0.6	-0.6	-0.7	-0.6	-0.7	-0.5	-0.5	-0.4	-0.2	-0.4	-0.4
SIGMA	0.3	0.4	0.8	**	0.4	0.4	0.4	0.6	0.8	0.7	0.6	0.5	0.5	0.5	0.4	0.6	0.5	0.7	0.5	0.4	0.4	0.3	0.4	0.4
RADIATION																								
MEAN	-5.4	-5.4	-5.0	-4.7	-3.0	-0.2	18.6	29.2	41.1	49.1	62.7	59.1	61.6	54.5	44.0	31.6	18.7	-2.3	-6.6	-6.5	-6.3	-6.0	-5.5	
SIGMA	2.8	3.0	2.6	3.2	2.8	0.5	8.6	15.6	20.2	20.4	24.1	23.8	21.7	21.0	17.5	14.7	8.7	1.8	3.5	3.0	3.2	2.8	2.8	2.7

TABLE 5.2-7D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	16															
A-B	25	2	2	2	2	2	2	1	7	2	1	3	2			
B	4	13	7	11	6	8	8	1	1	7	1	1	1		1	
B-C	17	2	16	23	6	4	2	8	1	6	7	1	6	1	1	
C	20	1	11							2						
C-D	4	2	14	5						2						
D1	36	4	2							1						
D2	66	3	12	5	2	4	1	1	1	4	1	2	1	3	2	
E	23	14	21	4	1	2	2	2	6	4	5	7	1			
F	27	10	19	1												
G	178	16	14	10	2	4	4	9	21	11	25	19	8	7	5	
LACK	178	11	8	5	1	2	11	25	10	17	14	16	3	1	39	

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TABLE 5.2- 7E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	MNW	N	LACK	TOTL
-0.4	95																	0	95
0.5-0.9	2	1	5	2	2	4	4	2	6	14	9	11	11	15	2	4	2	0	83
1.0-1.9	16	20	22	11	11	7	1	8	11	12	8	11	8	11	5	1	1		155
2.0-2.9	21	50	21	4	4	6	12	1	1	7	2	2	1	1	1				134
3.0-3.9	3	44	12		4	4	3	6	6	4	1								77
4.0-4.9	1	5	4							1									21
5.0-5.9			1																1
6.0-6.9																			0
7.0-7.9																			0
8.0-8.9																			0
9.0-9.9																			0
10.0-																			0
LACK	0	11	8	5	1	2	11	25	10	17	14	15	15	16	3	1	0	39	178
TOTL	95	45	135	73	23	25	19	29	46	55	24	24	24	42	11	6	4	39	744
40M																			
-0.4	26																	0	26
0.5-0.9	1	2	1	1	1	1	1	2	1	1	1	2	2	2	2	2	2	0	19
1.0-1.9	5	2	7	7	5	6	1	6	8	10	13	10	10	16	4	2	5		107
2.0-2.9	2	19	24	8	7	9	8	3	9	23	24	20	20	12	14	1	2		186
3.0-3.9	5	44	28	2	4	10	7	7	15	15	10	7	7	11	2	1	2		175
4.0-4.9	12	39	10		1	1	7	5	1	6	1	2	6	2	6				92
5.0-5.9	29	29	9				11	6	2	2									57
6.0-6.9	2	7	2				5	2	2	2									21
7.0-7.9		3	2				6	1	1	1									15
8.0-8.9																			6
9.0-9.9		1	1				3												0
10.0-																			0
LACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	39	40
TOTL	26	22	146	85	17	18	27	51	31	60	50	29	29	42	27	6	13	35	744

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TABLE 5.2- PA DAILY AVERAGES

DATE	AIR TEMP. C-DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/CCM/DAY	NET RAD. CAL/CCM/DAY	WIND SPD(10)		WIND SPD(20)		WIND SPD(40)	
						M/S	M/S	M/S	M/S	M/S	M/S
1	25.5	78.9	0.0	565.0	-82.4	2.2	3.0	1.9	2.7	4.1	4.1
2	25.0	80.9	0.0	**	-88.8	1.2	1.9	1.2	1.6	2.7	2.7
3	25.0	82.6	0.0	458.2	-86.4	0.8	1.2	0.8	1.2	1.6	1.6
4	24.4	76.8	0.0	562.2	-86.4	1.7	2.3	2.3	2.1	2.0	2.1
5	25.5	84.8	0.0	594.0	-79.9	0.9	1.4	1.4	2.0	2.0	2.0
6	25.2	77.7	6.5	525.0	-63.0	1.3	1.9	1.9	2.6	2.6	2.6
7	23.0	74.0	1.0	616.8	-41.0	1.0	1.3	1.3	1.7	1.7	1.7
8	22.7	86.6	3.0	59.0	-42.0	0.8	1.4	1.4	2.2	2.2	2.2
9	25.9	78.4	1.0	615.6	-59.6	1.2	1.9	1.9	2.6	2.6	2.6
10	22.3	68.9	1.5	534.0	-117.6	1.7	2.3	2.3	2.9	2.9	2.9
11	20.1	67.7	37.5	166.8	-45.2	1.0	1.6	1.6	2.4	2.4	2.4
12	21.8	62.3	0.0	405.2	-42.2	1.2	1.8	1.8	2.5	2.5	2.5
13	21.8	89.3	25.0	90.0	-24.2	2.2	3.0	3.0	3.8	3.8	3.8
14	20.1	84.7	72.5	99.6	-24.0	3.7	5.0	5.0	6.3	6.3	6.3
15	21.6	82.5	24.0	229.2	-32.4	3.9	5.1	5.1	6.4	6.4	6.4
16	22.8	85.0	22.5	354.0	-16.4	2.4	3.2	3.2	4.3	4.3	4.3
17	24.4	92.2	45.0	139.8	-27.9	1.5	2.4	2.4	3.7	3.7	3.7
18	24.2	91.2	31.0	149.4	-31.8	1.3	2.0	2.0	3.2	3.2	3.2
19	21.1	67.4	12.5	142.2	-21.2	2.9	4.0	4.0	5.1	5.1	5.1
20	21.4	80.5	0.0	425.0	-26.6	3.3	4.4	4.4	5.2	5.2	5.2
21	20.5	82.8	3.0	**	-67.2	3.0	4.0	4.0	5.1	5.1	5.1
22	20.6	72.9	0.0	258.6	-54.6	5.8	7.4	7.4	9.2	9.2	9.2
23	21.1	76.1	0.0	506.4	-50.4	6.2	8.1	8.1	9.8	9.8	9.8
24	21.5	74.8	0.0	348.0	-26.6	5.1	6.6	6.6	7.9	7.9	7.9
25	21.8	78.4	0.0	331.2	-40.2	3.8	4.9	4.9	6.0	6.0	6.0
26	23.2	79.7	0.0	334.6	-42.0	1.6	2.1	2.1	2.8	2.8	2.8
27	24.3	80.5	0.0	376.2	-41.4	1.8	2.4	2.4	3.2	3.2	3.2
28	23.9	80.5	0.0	225.0	-35.4	1.0	1.5	1.5	2.3	2.3	2.3
29	23.6	80.2	0.0	274.8	-54.0	0.8	1.0	1.0	1.5	1.5	1.5
30	23.8	77.5	0.0	553.2	-57.0	1.9	2.4	2.4	3.0	3.0	3.0
31	22.6	82.9	0.0	347.4	-75.0	0.9	1.3	1.3	1.9	1.9	1.9
MONTH	23.0	81.2	297.0	251.6	-54.9	2.2	3.0	3.0	3.9	3.9	3.9
LACK	44	45	19	22	2	26	26	26	26	26	26

TABLE 5.2- EB PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

CALM	NNE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	MNW	NW	NNW	N
10M	14.9	21.1	18.4	6.1	1.6	2.6	2.8	6.0	6.7	2.2	2.9	2.2	4.6	2.6	0.8
40M	2.6	20.4	18.4	6.5	2.5	2.6	2.2	10.4	5.8	3.0	3.2	4.0	5.8	2.4	1.5

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TABLE 5.2- 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=																									
1CM																									
MEAN	1.7	1.6	1.8	1.7	1.6	1.7	2.0	2.3	2.5	2.5	2.5	2.1	2.1	2.1	2.8	2.6	2.5	2.2	1.9	1.8	1.8	1.9	1.8	1.7	1.7
SIGMA	1.7	1.7	1.8	1.8	1.9	1.9	1.9	1.9	1.7	1.7	1.9	1.6	1.5	1.6	1.7	1.6	1.7	1.9	1.6	1.8	1.8	1.7	1.8	1.7	1.7
20M																									
MEAN	2.5	2.4	2.6	2.5	2.5	2.6	2.7	3.0	3.2	3.3	3.6	4.0	3.9	3.9	3.6	3.7	3.4	3.4	2.9	2.7	2.7	2.7	2.7	2.5	2.6
SIGMA	2.1	2.0	2.2	2.2	2.2	2.4	2.2	2.5	2.2	2.2	2.4	2.1	1.9	2.1	2.1	2.0	2.1	2.4	2.2	2.1	2.1	2.1	2.1	2.1	2.1
40M																									
MEAN	3.5	3.3	3.7	3.6	3.6	3.6	3.4	3.7	4.1	4.0	4.2	4.7	4.8	4.6	4.4	4.2	4.2	3.9	3.7	3.7	3.7	3.8	3.6	3.6	
SIGMA	2.3	2.2	2.7	2.5	2.5	2.6	2.6	2.9	3.0	2.8	2.9	2.5	2.3	2.7	2.5	2.4	2.5	2.8	2.5	2.4	2.4	2.3	2.3	2.3	
TEMPERA-																									
TURE																									
MEAN	22.0	21.9	21.8	21.7	21.5	21.9	22.6	23.7	24.2	24.4	24.2	24.5	24.4	24.9	24.1	23.8	23.6	23.3	23.1	22.9	22.8	22.6	22.5	22.1	
SIGMA	1.6	1.6	1.7	1.8	1.8	1.9	1.9	2.2	2.7	2.8	2.7	2.6	2.3	3.1	2.4	2.4	2.3	2.0	1.8	1.7	1.6	1.5	1.6	1.6	
HUMIDITY																									
MEAN	85.2	85.5	85.2	85.9	85.8	85.3	82.0	78.4	77.0	76.1	76.6	76.4	75.9	74.8	77.9	79.2	80.0	81.0	82.5	83.2	82.5	82.5	82.4	84.2	
SIGMA	5.2	5.4	5.1	4.6	4.6	5.2	6.7	7.5	8.9	10.7	11.4	11.0	11.0	11.9	9.8	9.5	8.5	7.2	6.1	6.4	6.3	6.1	6.3	5.7	
LAPSE																									
RATE																									
MEAN	-12.7	-12.7	-12.6	-12.8	-12.5	-12.5	-14.2	-12.4	-12.8	-12.4	-12.7	-12.9	-14.4	-15.1	-13.8	-12.6	-14.5	-14.5	-12.9	-12.9	-12.9	-12.8	-12.8	-12.4	
SIGMA	12.9	13.1	13.2	12.9	12.1	12.5	11.9	11.7	11.2	11.2	11.4	11.2	10.9	11.2	11.4	11.6	12.0	12.0	12.5	13.0	12.0	13.0	13.0	13.4	
STABIL.																									
RATIO																									
MEAN	-2.0	-5.8	-6.7	-5.0	-2.7	-2.8	-3.0	-1.2	-2.2	-2.6	-3.4	-2.1	-1.9	-3.8	-2.5	-2.6	-2.7	-3.0	-2.0	-2.9	-2.8	-3.6	-2.9	-2.4	
SIGMA	1.4	7.7	3.1	7.9	3.2	4.0	3.5	0.8	2.0	4.2	4.4	2.9	2.5	7.7	4.7	4.5	5.2	4.5	2.4	4.1	3.5	5.1	3.7	2.0	
RADIA-																									
TION																									
MEAN	-4.5	-4.4	-4.4	-4.2	-3.9	-0.4	16.0	28.2	27.6	45.4	44.4	44.2	42.8	29.9	26.2	17.9	9.9	-3.4	-5.2	-5.1	-4.9	-5.0	-4.7	-4.7	
SIGMA	2.8	2.8	2.6	2.6	2.4	0.3	7.2	13.6	19.1	24.1	26.0	28.0	24.8	24.5	18.5	12.2	5.5	2.7	3.1	2.9	2.8	2.6	2.6	2.8	

TABLE 5.2- 8U FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TCTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNNW	NW	NNW	N	LACK
A	24		1	3	2	5	5				1	2	1	2		1		
A-B	59		6	13	5	10	8	1			2	2	3	1	1			
B	60	1	6	13	1	2	1	12	4	1	3	2	2	5	3		3	
B-C	12	4	6															
C	39	5	19	2														
C-D	14	4	6															
D	109	22	26	6	3	1	4	7	7	4				2		2	3	
D2	146	68	28	2		1	6	6	6	6	3	6	6	7	5	2	4	
E	29	15	9						1	1	1	1		1			1	
F	13	5	5						2	2	1							
G	212	16	11	12	5	4	11	9	22	17	7	18	12	26	25	7	10	
LACK	26							2	2									22

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TABLE 5.2-6E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL	
-0.4	107																			
0.5-0.9		1	5	9	2	2	5	9	5	11	5	9	12	22	11	4	2	0	107	
1.0-1.9		17	14	18	7	9	14	21	16	5	6	12	4	9	6	2	5		115	
2.0-2.9		20	24	14	4	6	1	10	9	3	5			2	2		3		165	
3.0-3.9		25	27	3		1		2	8								1		113	
4.0-4.9		24	24						8										87	
5.0-5.9		17	5						1										76	
6.0-6.9		17	2																23	
7.0-7.9		10	2																19	
8.0-8.9		1																	12	
9.0-9.9																			1	
10.0-																			0	
LACK		0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	
TOTL	107	152	133	44	13	19	20	44	49	19	16	21	16	32	19	6	11	22	744	
40M																				
-0.4	19																			
0.5-0.9		2	4	2	1	0	2	2	5		1	6	2	1	1	2	2	0	19	
1.0-1.9		2	6	9	0	7	6	14	9	2	7	1	9	8	14	6	3		29	
2.0-2.9		6	10	19	5	9	12	14	15	7	6	9	7	16	19	6			106	
3.0-3.9		13	23	8	8	2	2	16	9	4	5	5	5	2	5	2	2		167	
4.0-4.9		11	16	3	1	1		5	6	1	2	1	1	1	1	1	1		111	
5.0-5.9		22	29	3				8	6	1	2	1	1	1	1		2		55	
6.0-6.9		27	25	2				8	6	1	2	1	1	1	1		2		76	
7.0-7.9		22	16	1				4											59	
8.0-8.9		12	3																44	
9.0-9.9		11	2																15	
10.0-		18	5																14	
LACK		0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	
TOTL	19	147	133	47	25	19	23	75	49	15	25	22	24	29	42	17	11	22	744	

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TABLE 5.2- 9A DAILY AVERAGES

DATE	AIR TEMP. C/DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/CM/2/HR	NET RAD. CAL/CM/2/HR	WIND SPD (10) M/S		WIND SPD (20) M/S		WIND SPD (40) M/S	
						10	20	10	20	10	20
1	24.2	79.9	0.0	324.0	-67.2	1.0	1.5	1.5	2.4	1.5	2.4
2	23.4	80.8	0.0	266.4	-51.7	2.2	2.9	2.9	3.7	2.2	3.7
3	24.5	80.2	0.0	290.6	-64.9	2.2	2.9	2.9	3.8	2.2	3.8
4	23.5	85.0	15.5	301.8	-76.9	1.6	2.2	2.2	2.9	1.6	2.2
5	23.0	75.4	0.0	527.6	71.2.7	1.5	2.0	2.0	2.9	1.5	2.0
6	24.0	79.3	0.0	501.0	-119.5	1.6	2.1	2.1	2.9	1.6	2.9
7	24.7	83.6	0.0	302.4	-102.1	1.1	1.6	1.6	2.2	1.1	2.2
8	24.6	85.4	12.5	256.2	-75.7	1.4	2.1	2.1	3.1	1.4	3.1
9	24.2	88.5	27.0	128.6	-47.5	1.4	2.1	2.1	3.0	1.4	3.0
10	25.7	86.0	5.5	210.0	-57.7	1.0	1.6	1.6	2.5	1.0	2.5
11	26.7	79.7	0.0	362.4	-70.2	1.5	2.2	2.2	3.2	1.5	3.2
12	25.7	81.3	0.0	426.6	-84.5	1.6	2.3	2.3	3.1	1.6	3.1
13	23.6	81.8	8.0	271.8	-50.2	2.9	3.9	3.9	5.1	2.9	5.1
14	21.8	77.9	0.5	269.4	-54.1	2.2	2.9	2.9	3.6	2.2	3.6
15	22.8	69.3	0.0	369.0	-112.3	1.1	1.7	1.7	2.3	1.1	2.3
16	19.2	55.8	0.0	519.0	-213.1	4.2	5.7	5.7	7.2	4.2	7.2
17	19.5	65.8	0.0	376.2	-143.5	3.7	4.9	4.9	6.2	3.7	6.2
18	22.4	75.0	0.0	350.4	-81.1	3.9	5.2	5.2	6.7	3.9	6.7
19	22.7	67.7	162.5	106.8	-25.2	6.1	8.0	8.0	10.6	6.1	10.6
20	24.5	67.7	2.0	499.2	-131.5	2.0	3.0	3.0	4.3	2.0	4.3
21	24.0	66.3	0.0	223.4	-114.1	2.2	3.2	3.2	4.4	2.2	4.4
22	18.8	59.8	0.0	265.8	-90.1	2.0	2.7	2.7	4.1	2.0	4.1
23	19.1	71.8	0.0	183.0	-78.7	1.4	2.1	2.1	3.1	1.4	3.1
24	21.0	77.0	0.0	342.0	-165.1	1.2	2.1	2.1	2.8	1.2	2.8
25	19.2	65.2	0.0	357.0	-119.1	1.9	2.8	2.8	4.2	1.9	4.2
26	19.6	78.0	1.5	283.8	-95.5	1.3	2.0	2.0	3.0	1.3	3.0
27	21.1	71.6	0.0	428.4	-169.9	2.1	2.9	2.9	3.6	2.1	3.6
28	19.5	63.7	0.0	457.0	-148.2	1.8	2.6	2.6	3.2	1.8	3.2
29	20.0	77.0	1.0	215.4	-76.3	1.0	1.6	1.6	2.5	1.0	2.5
30	19.5	83.2	4.0	126.6	-100.9	1.9	2.7	2.7	3.6	1.9	3.6
MONTH	22.4	75.8	244.0	324.9	-130.1	2.0	2.9	2.9	3.9	2.0	3.9
LACK	3	3	2	1	2	3	3	3	3	3	3

TABLE 5.2- 9B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

ICM 40M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	*	NNW	NW	NN	N
11.7	14.6	16.0	15.0	5.2	3.3	1.4	1.7	4.2	7.5	2.9	4.9	3.2	4.0	5.7	8.4	2.2	2.8
1.0	13.0	18.0	18.0	6.6	3.3	1.0	2.0	7.0	5.7	4.6	5.9	4.6	4.0	4.6	11.0	4.0	13.8

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TABLE 5.2- 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	1.6	1.4	1.2	1.2	1.2	1.4	1.6	2.2	2.6	2.7	2.6	2.7	2.9	3.1	2.9	3.0	2.6	2.2	2.0	1.7	1.6	1.6	1.5	1.6	1.6
SIGMA	1.4	1.3	1.4	1.4	1.4	1.5	1.5	1.5	1.6	1.5	1.4	1.4	1.4	1.6	1.5	1.7	1.8	2.0	1.8	1.5	1.5	1.4	1.4	1.6	1.4
H= 20M																									
MEAN	2.4	2.3	2.0	1.8	1.9	2.1	2.3	2.9	3.5	3.5	3.2	2.5	3.7	4.1	3.7	2.9	3.5	2.1	2.9	2.7	2.2	2.5	2.2	2.3	2.3
SIGMA	2.0	1.8	1.8	1.7	1.8	1.9	1.9	1.9	2.0	1.9	1.8	1.8	2.0	2.0	1.8	2.2	2.3	2.3	2.2	1.9	1.9	1.7	2.0	1.7	1.7
H= 40M																									
MEAN	3.7	3.0	3.2	2.0	2.2	2.2	2.3	3.7	4.2	4.1	4.1	4.2	4.4	4.9	4.7	4.8	4.6	4.1	3.9	3.9	2.6	2.8	3.5	3.7	3.7
SIGMA	2.5	2.2	2.1	2.0	2.0	2.0	2.2	2.2	2.3	2.4	2.2	2.1	2.2	2.5	2.4	2.6	2.8	2.6	2.6	2.3	2.8	2.7	2.5	2.1	2.1
TEMPERATURE																									
MEAN	20.7	20.5	20.2	20.1	20.2	21.2	22.6	23.5	24.1	24.7	24.9	25.0	24.8	24.5	24.5	24.1	22.6	23.0	22.7	22.4	21.9	21.4	21.2	20.9	20.9
SIGMA	3.0	3.0	3.1	3.2	3.0	2.8	2.6	2.6	2.8	2.8	2.8	2.6	2.5	2.5	2.5	2.2	2.2	2.1	2.1	2.2	2.3	2.6	2.7	2.8	2.8
HUMIDITY																									
MEAN	79.9	80.4	80.8	81.3	82.2	81.6	79.6	76.0	71.9	70.5	66.1	66.9	67.0	67.6	69.6	72.2	74.8	76.7	77.0	77.0	78.5	79.6	79.9	80.1	80.1
SIGMA	10.1	10.0	9.6	9.6	9.1	10.2	12.1	12.2	12.1	11.4	12.0	12.9	12.1	10.9	10.7	10.0	9.4	9.5	10.0	10.2	9.4	10.3	10.3	10.8	10.8
LAPSE RATE																									
MEAN	0.6	0.7	1.1	0.8	0.8	0.6	-0.9	-1.5	-1.9	-2.0	-2.2	-2.2	-2.1	-2.1	-1.9	-1.4	-0.8	0.1	0.2	0.3	0.2	0.7	0.7	0.5	
SIGMA	1.7	1.7	3.0	2.0	1.6	1.6	0.5	0.5	0.7	0.7	0.6	0.7	0.8	0.6	0.6	0.6	0.6	1.5	1.2	1.3	1.4	1.9	1.7	1.4	
STABIL. RATIO																									
MEAN	0.4	0.1	-0.1	0.2	0.2	0.0	-0.4	-0.4	-0.5	-0.5	-0.6	-0.5	-0.5	-0.4	-0.5	-0.4	-0.2	-0.1	0.1	0.0	-0.0	0.2	-0.0	-0.1	
SIGMA	1.2	0.4	0.4	0.4	0.5	0.3	0.4	0.5	0.5	0.6	0.5	0.5	0.5	0.4	0.5	0.4	0.2	0.2	0.4	0.5	0.1	0.8	0.5	0.2	
RADIATION																									
MEAN	-7.9	-7.6	-7.2	-7.2	-7.0	-2.2	-0.1	23.6	41.8	48.1	47.0	45.7	38.6	28.4	16.2	-2.0	-8.7	-8.7	-8.6	-7.8	-8.2	-7.8	-8.5	-8.5	
SIGMA	4.6	4.5	4.6	4.6	4.6	2.8	2.1	0.1	12.1	17.7	18.2	19.0	12.5	7.3	3.2	4.7	4.7	4.9	4.3	4.8	4.5	4.5	4.4	4.4	

TABLE 5.2- 9D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	19	1		2	4	4	1	1	1	1	2	1	2					
A-B	61	2		4	12	4	6	9	2	2	3	3	4	2	5	2		
B	78	2	19	7	6	2	2	12	4	5	7	2	2	4	1	1	2	
B-C	16	2	3	4	4		1	5	1	1	1							
C	40	9	13	4	4		1	4	1	4	2				1			
C-D	12	5	6					1	1									
D1	43	13	16	3	1	2	2	3	1	1	1		1	1	1			
D2	112	23	31	3	1		3	5	1	3	6	6	6	6	12	4	5	
E	24	12	12					6	6						1			
F	25	16	3	2				8	8						4			
G	266	19	10	9	2	4	2	4	12	22	23	18	27	38	48	16	11	
LACK	3																	3

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TABLE 5.2-9E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SEE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL	
-0.4	64																			
0.5-0.9	2	2	1	4	2	1	2	5	5	8	15	10	14	23	23	10	6	0	64	
1.0-1.9	21	13	20	12	7	10	13	9	9	9	9	11	12	18	25	5	8		128	
2.0-2.9	25	22	11	9	1	1	12	19	2	9	1	1	1	5	3	2	2		206	
3.0-3.9	22	20	5				2	13	1	2	1			2	2		2		123	
4.0-4.9	10	21											1	2	2				81	
5.0-5.9	12	19							2				1	1	1		1		37	
6.0-6.9	8	8						1						1	1		1		37	
7.0-7.9	3														1				17	
8.0-8.9																			3	
9.0-9.9	1																		0	
10.0-																			1	
LACK																				0
TOTL	64	105	115	27	25	10	12	30	54	21	35	23	29	41	60	16	20	3	720	
40M	7																			
-0.4																				
0.5-0.9	2	2	2	1	1	1	2	1	1	2	1	1	2	2	2	1	1	0	7	
1.0-1.9	1	1	2	5	1	9	6	9	5	6	9	14	8	13	10	8	3		15	
2.0-2.9	9	12	12	12	6	9	2	14	4	15	14	11	6	11	29	11	10		93	
3.0-3.9	6	16	18	4	2	2	12	17	6	6	3	9	5	22	5	5	6		185	
4.0-4.9	22	24	8	1	2	2	14	10	1	6	1	2	2	4	2	2	4		144	
5.0-5.9	15	16	5				7	4		3	1			2	2	1	2		102	
6.0-6.9	7	11	1				2	2		2				3	3				57	
7.0-7.9	5	11					1							3	3				26	
8.0-8.9	14	13					1							1	1				20	
9.0-9.9	2	12												1	1				29	
10.0-																			17	
LACK																				22
TOTL	7	93	129	47	24	7	14	50	41	32	42	33	29	32	79	29	27	3	720	

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TABLE 5.2-10A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/CM/DAY	NET RAD. CAL/CM/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	20.4	74.5	0.0	429.2	-159.7	2.2	3.1	3.9
2	20.0	68.9	0.0	425.4	-112.2	3.1	4.2	5.5
3	19.3	65.2	0.0	323.4	-86.5	1.9	2.6	2.5
4	16.8	65.3	22.5	101.2	-60.7	2.0	3.0	4.6
5	19.9	68.2	0.0	260.6	-145.7	1.7	2.4	3.8
6	18.5	78.8	0.0	356.4	-155.7	1.0	1.5	2.2
7	18.7	70.8	0.0	355.2	-117.1	3.1	4.2	5.4
8	17.7	74.2	1.5	131.4	-46.2	4.6	6.0	7.3
9	16.5	86.8	7.0	78.6	-77.5	2.0	2.9	4.0
10	17.7	81.5	0.0	192.0	-111.1	0.6	1.1	1.9
11	17.6	71.5	0.0	143.4	-94.2	3.5	4.7	6.0
12	16.2	61.6	0.0	417.0	-140.1	3.8	5.2	6.4
13	15.0	68.3	0.0	402.6	-162.9	1.7	2.6	3.6
14	17.2	81.3	1.5	163.2	-86.7	2.4	3.2	4.5
15	18.1	84.0	0.0	291.2	-145.9	1.1	1.6	2.3
16	18.7	65.7	0.0	357.6	-146.5	1.3	1.9	3.0
17	16.1	60.2	0.0	109.2	-69.1	2.4	3.4	4.3
18	17.4	66.9	0.0	277.2	**	2.9	3.9	5.1
19	17.5	50.4	0.0	260.7	-180.7	2.9	5.2	6.5
20	14.4	52.9	0.0	152.2	**	4.0	5.4	6.6
21	**	**	**	**	**	**	**	**
22	14.5	69.2	0.0	373.2	-199.2	1.4	2.1	3.9
23	16.3	72.0	0.0	270.2	-171.5	2.0	2.9	4.3
24	15.5	72.8	0.0	269.0	-202.9	1.2	1.8	3.0
25	16.0	72.4	0.0	347.4	-167.5	2.5	3.5	4.8
26	15.5	75.2	0.0	242.6	-156.7	1.1	1.7	2.8
27	15.6	72.5	0.0	321.6	-153.1	1.2	2.0	2.7
28	15.7	74.8	0.0	**	-105.1	1.6	2.4	3.6
29	16.0	80.5	0.0	**	-146.9	1.1	1.9	3.3
30	17.1	75.7	0.0	223.8	-102.2	0.9	1.6	2.5
31	18.6	76.8	0.0	264.4	-134.5	1.2	2.2	3.2
MONTH	17.2	72.6	22.5	292.6	-134.2	2.1	2.9	4.1
LACK	65	65	61	31	34	65	65	65

TABLE 5.2-10B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

ICM 40M	CALM	NNE	ENE	E	ESE	SE	SSE	S	SSW	WSW	W	WNW	NNW	N
	9.6	22.7	16.6	4.3	1.9	0.7	1.0	0.9	0.3	1.2	1.9	11.5	17.5	4.9
	0.9	20.6	16.3	5.0	2.9	1.0	1.2	0.4	1.6	0.7	1.8	6.2	21.5	6.9

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TABLE 5.2-10C 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	1.5	1.5	1.6	1.7	1.8	2.0	2.3	2.5	2.5	2.2	2.9	2.2	2.9	2.7	2.3	2.0	1.8	1.5	1.6	1.6	1.5	1.4
SIGMA	1.2	1.1	1.3	1.2	1.2	1.1	1.2	1.4	1.5	1.4	1.5	1.5	1.2	1.3	1.4	1.6	1.5	1.5	1.7	1.6	1.5	1.4	1.3	1.2
20M																								
MEAN	2.1	2.4	2.4	2.4	2.6	2.7	2.6	2.6	2.0	2.2	2.0	4.1	3.8	4.2	2.9	3.7	3.4	3.1	2.8	2.4	2.4	2.5	2.3	2.1
SIGMA	1.5	1.2	1.6	1.4	1.4	1.2	1.6	1.7	1.9	1.7	1.9	1.9	1.7	1.7	1.9	2.1	1.9	1.9	2.0	2.1	1.9	1.7	1.6	1.5
40M																								
MEAN	3.8	3.8	3.9	3.9	4.1	4.0	4.0	3.5	3.6	4.0	4.5	4.9	4.4	5.0	4.7	4.7	4.6	4.2	4.0	3.6	3.7	3.6	3.7	
SIGMA	1.5	1.4	1.6	1.5	1.5	1.2	1.5	2.1	2.3	1.9	2.2	2.3	2.0	2.1	2.2	2.4	2.2	2.2	2.3	2.0	1.7	1.5	1.5	
TEMPERATURE																								
MEAN	14.6	14.4	14.2	14.3	14.1	14.0	15.0	16.9	16.7	19.7	20.3	20.5	20.8	20.5	20.4	20.0	19.1	18.3	17.7	17.1	16.5	16.0	15.5	15.0
SIGMA	2.7	2.6	2.6	2.7	2.7	2.8	2.6	2.1	2.0	2.3	2.4	2.4	2.2	2.0	1.9	1.8	1.5	1.5	1.6	1.8	2.2	2.3	2.5	2.6
HUMIDITY																								
MEAN	80.0	79.6	80.0	79.7	79.4	80.1	77.5	72.1	68.2	62.8	61.7	60.6	60.4	62.5	62.9	66.6	71.2	72.5	73.8	75.7	76.7	77.2	78.6	79.1
SIGMA	11.2	10.9	11.5	10.5	11.4	11.4	11.1	9.6	10.0	12.0	11.6	12.7	12.1	11.4	9.9	9.0	9.1	9.7	9.6	10.7	10.4	9.8	10.4	10.4
LAPSE RATE																								
MEAN	2.2	1.9	1.9	1.6	2.2	2.2	0.2	0.2	-1.4	-1.8	-2.2	-2.3	-2.3	-2.0	-1.6	-1.1	0.1	1.1	1.5	2.1	2.5	2.3	2.0	1.9
SIGMA	3.1	2.3	2.5	2.2	2.8	3.2	2.2	0.6	0.6	0.7	0.7	0.8	0.6	0.7	0.6	0.6	1.2	2.6	2.7	2.2	3.6	3.3	2.9	2.6
STABILITY RATIO																								
MEAN	1.1	0.9	1.0	0.6	0.9	0.7	0.0	-0.7	-0.6	-0.6	-0.4	-0.3	-0.2	-0.3	-0.3	0.0	0.0	-0.0	0.9	0.0	0.8	0.6	0.9	1.1
SIGMA	2.0	1.0	1.6	1.2	1.2	1.4	0.7	0.8	0.7	0.7	0.5	0.3	0.3	0.3	0.4	0.5	0.4	0.2	1.7	0.3	2.5	1.1	2.0	1.9
RADIATION																								
MEAN	-9.5	-9.6	-9.4	-8.7	-9.3	-7.5	-0.2	22.4	34.0	41.0	44.8	44.6	42.1	32.0	21.0	10.9	10.1	-11.0	-10.1	-10.0	-10.5	-9.6	-9.5	-9.0
SIGMA	4.2	3.7	3.9	4.2	4.2	4.1	0.6	9.5	14.5	18.5	19.2	19.7	16.9	14.3	9.1	3.9	4.6	4.6	4.0	3.8	3.8	4.6	4.4	4.1

TABLE 5.2-10D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	11			1	2			1		1	3	1		2			
A-B	61	2	3	9	7	3	4	2					2	9	12	3	3
B	48	5	14	5	3	2	2		1	3	1	1	4	1			
B-C	10			2													
C	36	12	20	1													1
C-D	20	6	13	1													
D1	62	28	16	4	1	1	1	1						4		4	
D2	75	37	11	2					1	1	1	1	9	9	1	3	1
E	52	29	15	3													5
F	24	15	7										1	1			
G	280	20	7	2	2	2	1	2	5	9	5	13	62	110	16	24	65
LACK	65																

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TABLE 5.2-10E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

IOH	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL	
-0.4	65																			
0.5-0.9		4	2	2	1	1	2	1	1	1	6	3	6	36	50	12	8	0	65	
1.0-1.9		18	4	7	9	2	2	4	1	3	2	4	7	41	67	2	14		134	
2.0-2.9		26	15	9	3	2	2	2		2	2	1		1	2	3	7		188	
3.0-3.9		45	45	8														1	89	
4.0-4.9		25	37	2													4		103	
5.0-5.9		14	9	1															74	
6.0-6.9		2	1																23	
7.0-7.9																			3	
8.0-8.9																			0	
9.0-9.9																			0	
10.0-																			0	
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	
TOTL	65	154	112	29	12	5	7	6	2	6	11	8	13	78	119	17	33	66	744	
40M	5																			
-0.4																				
0.5-0.9		4	3	4	2	2	1	1		1		2	1	11	2	1	1	0	6	
1.0-1.9		4	3	3	5	2	4	4	1	5		2	3	10	10	7	8		10	
2.0-2.9		4	3	3	6	2	4	4	1	6		6	6	22	30	17	15		66	
3.0-3.9		18	11	10	6	1	1	2	2	2	1		2	13	60	11	10		131	
4.0-4.9		25	23	7	1			2	2	3			2	24	4	4	8		148	
5.0-5.9		30	20	7	1			2	3	3		1		10	10	1	4		110	
6.0-6.9		29	25	13					1	1				10	10	1	4		74	
7.0-7.9		21	18	6													1		68	
8.0-8.9		5	5	2															45	
9.0-9.9		4	2	2															12	
10.0-																			8	
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	65	
TOTL	6	140	111	54	20	7	7	8	3	11	5	5	12	56	146	41	47	65	744	

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TABLE 5.2-11A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SCM/DAY	NET RAD. CAL/SCM/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	19.5	75.0	0.0	216.8	-127.5	1.5	2.7	3.8
2	16.2	72.4	1.5	63.0	-72.1	3.0	4.1	5.4
3	14.8	53.2	0.0	355.2	-210.7	3.4	4.6	5.7
4	13.8	65.9	0.0	107.4	-124.5	2.6	3.6	4.6
5	15.1	73.7	0.0	220.4	-123.2	1.3	2.0	3.0
6	18.4	74.7	0.0	260.2	-115.2	1.6	2.6	3.7
7	18.8	76.2	0.0	91.8	-53.5	3.1	3.1	4.1
8	18.9	50.2	0.0	168.6	-47.5	1.2	1.9	2.6
9	16.2	57.2	0.0	274.0	-152.1	1.9	3.7	4.2
10	14.2	56.2	0.0	319.1	-149.3	2.4	3.2	5.4
11	9.9	60.7	0.0	220.6	-227.1	1.8	2.8	4.5
12	7.1	54.8	0.0	328.2	-269.5	2.4	3.8	5.1
13	8.2	71.9	0.0	189.4	-152.7	1.3	2.1	2.6
14	13.2	72.3	0.0	82.2	-54.2	1.5	2.3	3.6
15	12.9	61.3	0.0	180.6	-164.5	1.8	2.7	3.9
16	12.6	72.2	24.5	89.4	-52.2	2.3	2.4	4.6
17	12.4	84.9	43.5	60.0	-26.5	1.6	2.7	4.0
18	16.5	71.7	0.5	196.1	-96.1	2.8	3.8	4.8
19	15.0	76.1	0.0	214.2	-185.1	1.2	1.8	2.5
20	11.9	66.2	0.0	292.8	-235.2	1.0	2.0	3.1
21	11.4	70.4	0.0	277.8	-227.5	1.1	2.0	2.9
22	11.5	69.8	0.0	225.6	-205.9	1.7	2.9	4.2
23	9.1	54.8	0.0	281.4	-270.1	1.5	2.7	4.3
24	7.2	67.2	0.0	256.8	-227.5	0.8	1.7	3.0
25	10.4	66.1	0.0	250.8	-161.2	1.3	2.2	3.2
26	14.1	67.6	2.0	102.0	-62.2	2.2	3.1	4.2
27	12.7	79.7	4.0	124.2	-140.5	1.3	2.1	4.0
28	12.5	70.2	0.0	145.8	-159.1	1.4	2.4	3.5
29	10.8	64.5	0.0	177.0	-152.5	3.0	4.3	5.3
30	9.2	61.6	0.0	274.2	-256.2	1.2	2.4	3.9
MONTH	13.4	68.8	76.0	214.2	-154.5	1.8	2.8	4.0
LACK	0	2	0	0	0	1	1	1

TABLE 5.2-11B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	10.4	15.4	12.1	2.2	0.3	0.6	0.7	1.1	2.1	3.9	2.5	5.4	11.4	15.8	4.4	5.7
4CM	0.8	19.6	12.8	2.6	0.6	1.0	2.4	1.4	2.5	4.0	1.7	3.9	11.1	20.4	6.5	6.2

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TABLE 5.2-11E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL	
-0.4	75																			
0.5-0.9		2	1			2	1	2	2	4	2	11	10	21	50	14	7	0	75	
1.0-1.9		22	9	7		3	4	5	4	8	8	4	28	41	53	12	24		142	
2.0-2.9		44	22	3	2			2	1	2	6	2	1	7	11	6	9		231	
3.0-3.9		45	24	4				1		1	8	1		2			1		119	
4.0-4.9		24	22	2				1			4								88	
5.0-5.9		2	7																54	
6.0-6.9			1																9	
7.0-7.9																			1	
8.0-8.9																			0	
9.0-9.9																			0	
10.0-																			0	
LACK		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTL	75	140	87	16	2	6	5	12	8	15	28	18	39	82	114	22	41	0	720	
40M	6																			
-0.4	6																			
0.5-0.9		4	3	2	1	2	2	1	1	1	2	4	5	8	12	2	6	0	6	
1.0-1.9			7	2	1	1	2	6	5	3	3	3	6	20	35	9	15		56	
2.0-2.9		22	12	7	2		2	5	4	6	7	1	7	26	45	15	25		133	
3.0-3.9		26	17					2		5	2	4	6	12	42	7	10		186	
4.0-4.9		41	12	2				2		2	8	4	4	4	22	9	2		141	
5.0-5.9		25	19	2				1		1	2	4	4	4	2	5	1		91	
6.0-6.9		8	12	1							2			2	2	4	1		60	
7.0-7.9		1	6	1							4				1				25	
8.0-8.9			2																14	
9.0-9.9																			4	
10.0-																			0	
LACK		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTL	6	141	92	19	4	4	7	17	10	18	29	12	28	80	147	47	59	0	720	

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TABLE 5.2-12A DAILY AVERAGES

DATE	AIR TEMP. C-DEG	HUMIDITY PERCENT	PRECIPITAT. MM	SOLAR RAD. CALZ/CCM/DAY	NET RAD. CALZ/CCM/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	7.5	69.8	0.0	125.4	-166.2	2.1	2.2	4.6
2	6.9	69.8	0.0	258.6	-224.7	1.6	2.6	4.1
3	3.9	67.4	0.0	297.6	-269.5	0.8	1.9	2.7
4	7.0	63.5	0.0	271.8	-200.5	1.2	2.7	4.0
5	8.6	69.8	0.0	195.8	-162.1	0.8	1.9	2.9
6	7.8	69.1	0.0	203.4	-202.9	0.7	1.5	2.5
7	4.9	69.0	0.0	220.7	-222.7	0.9	1.9	2.9
8	9.0	72.3	0.0	235.2	-124.9	0.9	1.5	2.8
9	6.7	66.4	0.0	211.8	-232.2	1.0	**	2.0
10	5.6	64.2	0.0	246.6	-255.7	0.8	**	2.8
11	6.0	65.8	0.0	226.4	-250.2	1.1	**	2.5
12	6.2	69.0	0.0	66.6	-147.7	1.2	2.9	3.7
13	6.1	76.0	0.0	250.2	-232.9	0.8	1.6	2.1
14	3.4	69.6	0.0	224.4	-245.5	1.6	2.7	4.0
15	7.4	72.9	0.0	189.0	-203.5	1.2	2.1	3.8
16	11.8	78.6	0.0	122.4	-85.2	1.5	2.7	3.7
17	11.4	78.5	0.5	168.0	-144.3	1.1	2.1	3.6
18	8.4	71.0	0.0	166.8	-142.7	1.0	1.9	3.1
19	5.1	65.2	0.0	261.6	-291.1	1.2	2.3	4.1
20	3.7	69.3	0.0	207.2	-211.2	1.0	2.1	3.6
21	2.6	58.5	0.0	265.8	-200.1	1.4	2.9	4.6
22	1.0	60.4	0.0	281.4	-258.2	0.6	1.6	2.4
23	2.7	67.9	0.0	261.0	-242.7	0.9	1.9	3.0
24	3.5	74.8	0.0	240.6	-236.5	1.2	2.6	4.0
25	5.0	66.2	0.0	80.1	-112.9	1.1	2.5	4.0
26	3.5	58.4	0.0	268.2	-293.5	1.7	3.4	4.8
27	3.5	58.4	0.0	253.8	-274.2	1.4	2.8	4.7
28	1.9	52.1	0.0	265.2	-297.7	0.9	2.1	2.4
29	4.8	62.1	0.0	227.4	-228.7	1.5	3.2	4.6
30	10.2	62.4	0.0	243.0	-120.1	2.0	3.2	4.4
31	7.2	79.5	6.5	45.0	-26.5	1.5	2.5	3.3
MONTH	6.1	67.7	17.0	214.0	-211.1	1.2	2.4	2.6
LACK	6	17	3	7	1	9	82	9

TABLE 5.2-12B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

10M	40M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
19.2	6.1	2.5	2.7	1.9	1.6	0.8	0.1	0.2	0.4	0.4	1.4	3.8	3.4	9.2	19.8	19.6	6.9	2.7
0.3	6.4	3.7	2.7	2.7	1.6	1.2	0.2	0.4	0.4	1.0	0.8	4.6	3.5	7.6	17.7	30.0	11.8	6.1

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TABLE 5.2-12E FREQUENCY DISTRIBUTION 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	141																	0	141
0.5-0.9		5		1	5	2	1	1	1	6	10	9	29	50	68	20	9	0	215
1.0-1.9		16	6	7	6	4	1	1	1	2	9	9	25	79	54	19	8	0	249
2.0-2.9		16	6	5	1			1	1	2	7	6	4	8	19	7	3	0	85
3.0-3.9		7	10	1							2	1	2	8	4	4		0	39
4.0-4.9		1	2						1					1				0	4
5.0-5.9																		0	2
6.0-6.9																		0	0
7.0-7.9																		0	0
8.0-8.9																		0	0
9.0-9.9																		0	0
10.0-																		0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	8
TOTL	141	45	25	14	12	6	1	2	3	10	28	25	60	146	146	51	20	8	744
40M																			
-0.4	2																	0	2
0.5-0.9		1	2	4	6	5	1	1	2	1	1	1	2	2	1	16	2	0	15
1.0-1.9		2	6	7	3	3		1	1	2	6	4	11	10	35	18	8	1	83
2.0-2.9		13	4	4	1			2	1	2	12	7	18	41	74	21	15	0	150
3.0-3.9		16	5	2					2	6	6	9	9	29	56	14	4	0	213
4.0-4.9		11	2	2					2	2	2	1	5	7	26	9		0	150
5.0-5.9		2	5	2				1	2	1	2	1	2	2	15	5		0	67
6.0-6.9		1	2	1					1	1	2	1	3	1	3	1		0	35
7.0-7.9									1									0	10
8.0-8.9																		0	6
9.0-9.9									1									0	4
10.0-																		0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	8
TOTL	2	47	27	20	13	9	2	3	7	6	34	26	56	120	221	97	45	8	744

6. 統計結果(1978年)

6.1 年間統計結果

降水量は例年(1000~1200mm)と比較して、約720mmとかなり少なくなっている。大気安定度はG(夜間で、放射収支が $0.03 \text{ cal/cm}^2\text{-min}$ より多く、10m高風速が1.9m以下の場合)が全体の40%を占めている。風向は各測高とも北西および北東風が卓越しており、その他の要素同様例年通りである。本年より20m高風向の処理を開始した。ただし20m高風向データは1977年5月より収集を行っている。

Table 6.1-1 月別欠測回数

1978年

要素	測高(m)	欠測回数												年間(%)
		1	2	3	4	5	6	7	8	9	10	11	12	
風向	10	3	132	30	54	11	22	8	118	2	3	26	7	416 (4.7)
	20	744	672	604	55	11	5	8	118	2	3	207	744	3173(36.2)
	40	3	132	30	152	11	5	5	8	118	2	3	5	475 (5.4)
風速	10	3	137	30	60	11	10	9	117	2	3	9	6	397 (4.5)
	20	3	137	422	123	11	10	9	117	2	3	212	744	1793(20.5)
	40	3	137	30	62	11	10	9	117	2	3	9	6	399 (4.6)
日射	-	1	73	22	35	5	10	8	62	2	2	8	6	234 (2.7)
放射収支	10	2	64	8	25	6	0	0	55	0	1	1	0	162 (1.8)
気温	10	3	137	30	60	11	10	8	117	2	3	9	6	396 (4.5)
降水量	-	1	93	21	50	9	4	6	112	0	0	5	4	305 (3.5)

Table 6.1-2 年間風向頻度(%)

風向 測高(m)	Calm	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW ₂	W	WNW	NW	NNW	N
	10	16.7	10.0	10.6	4.7	2.5	1.5	1.6	3.0	4.5	2.1	4.4	4.0	4.5	8.7	13.7	4.9
20	9.5	8.3	16.5	5.9	3.5	2.1	1.7	5.4	4.9	2.5	5.7	4.2	4.4	7.4	10.7	4.1	3.3
40	1.8	8.7	12.3	5.4	2.5	1.7	2.0	5.1	3.4	3.0	5.0	4.0	4.7	10.2	17.3	7.9	5.1

Table 6.1-3 月間平均および総量

1978年

要素	測高(m)	月												年平均
		1	2	3	4	5	6	7	8	9	10	11	12	
静	1.0	20.9	27.2	19.0	20.2	19.1	15.8	15.2	13.4	9.6	13.2	13.4	13.6	16.7
	2.0	-	-	-	14.1	13.8	11.0	12.8	9.1	5.6	5.5	4.1	-	9.5
	4.0	1.1	0.2	0.7	1.4	3.5	2.3	3.5	2.9	1.7	1.3	0.8	2.2	1.8
風速	1.0	1.2	1.3	1.7	1.8	1.9	2.0	1.7	2.0	2.2	1.7	1.5	1.2	1.7
	2.0	2.5	2.5	-	2.5	2.4	2.6	2.1	2.6	2.9	2.4	2.3	-	2.5
	4.0	3.9	3.9	4.1	3.9	3.6	3.9	3.2	3.8	4.1	3.7	3.7	3.6	3.8
日射	-	211.2	314.0	353.0	383.5	433.2	438.1	553.0	481.5	283.3	269.5	247.7	196.3	347.0
放射収支	1.5	225.9	215.3	176.5	132.6	100.6	79.0	92.6	99.6	86.6	131.6	153.8	179.0	139.4
気温	1.5	3.0	1.9	6.0	10.5	15.9	20.5	24.8	26.1	20.9	15.4	10.8	5.8	13.5
降水量	-	15.0	4.0	47.0	113.5	88.5	114.0	27.0	21.5	77.0	120.5	55.0	26.5	719.5
湿度	1.5	63.9	60.3	64.6	69.9	74.3	76.0	80.8	75.4	75.6	74.2	69.1	67.5	71.0

Table 6.1-4 大気安定度年間出現頻度(%)

安定度	A	A-B	B	B-C	C	C-D	D ₁	D ₂	E	F	G
頻度	2.7	10.2	10.3	2.0	5.3	1.5	8.8	10.3	2.8	4.5	41.6

1978年

Table 6.1-5 月および年間極値

要素	測高 (m)	項目	月												年間	
			1	2	3	4	5	6	7	8	9	10	11	12		
風 (m/sec)	10	瞬間最大	13.0	16.8	20.0	20.5	14.3	18.5	10.8	15.3	13.9	14.6	13.5	13.5	20.5	
		出現日	3	23	10	6	30	21	30	30	1	28	14	10	4月6日	
		出現時	1:00	13:10	19:30	18:20	4:50	10:15	15:55	16:10	16:30	7:40	8:45	23:00	18:20	
風 (m/sec)	20	瞬間最大	-	-	18.9	20.5	16.8	20.0	11.1	21.1	16.2	18.3	-	-	20.5	
		出現日	-	-	10	6	30	21	29	3	1	28	-	-	4月6日	
		出現時	-	-	19:20	18:10	4:50	10:15	14:15	16:10	10:30	7:40	-	-	18:10	
風 (m/sec)	40	瞬間最大	19.5	24.2	26.8	-	14.8	19.9	14.1	17.6	14.6	-	-	20.1	26.8	
		出現日	22	23	10	-	30	21	10	3	11	-	-	24	3月10日	
		出現時	12:05	14:50	19:30	-	1:35	10:15	15:20	16:10	4:20	-	-	1:30	19:30	
氣 (°C)	1.5	瞬間最高	15.6	14.1	19.8	24.3	25.5	32.7	33.4	35.4	33.0	24.3	21.2	17.6	35.4	
		出現日	15	27	4	9	27	20	26	26	21	10	1	9	8月21日	
		出現時	13:50	14:40	13:20	13:10	11:10	13:10	15:30	15:30	13:50	14:30	11:45	12:30	12:40	13:50
氣 (°C)	1.5	瞬間最低	-5.4	-8.7	-3.7	-2.6	6.3	10.7	17.6	16.7	14.0	5.0	1.0	-5.7	-8.7	
		出現日	30	2	2	1	5	1	1	1	25	27	14	25	31	2月2日
		出現時	3:40	6:50	6:20	5:20	4:30	4:50	5:40	5:40	4:20	5:10	6:10	6:50	6:30	6:50
降水量 (mm)	1.5	日平均最高	8.2	8.3	9.4	17.8	19.9	27.1	27.6	29.6	23.0	20.1	14.6	10.9	29.6	
		出現日	1	28	27	16	27	17	17	25.26	21	19	1	1	10	8月21日
		出現時	-1.0	-1.9	2.6	3.9	10.4	17.1	19.2	19.2	22.2	16.8	11.2	6.1	-0.3	-1.9
降水量 (mm)	1.5	時總量最大	2.5	8.0	5.0	10.5	11.0	6.5	7.0	7.0	8.5	8.0	4.0	4.0	11.0	
		出現日	27	28	10	6	19	28	28	28	17	4	20	17	5	5月19日
		出現時	5	24	18	17:00	16	4	15	15	18	5	6	14	15	6時
降水量 (mm)	1.5	日總量最大	5.0	12.0	21.0	48.0	48.0	33.0	11.0	9.5	15.0	27.5	27.5	10.0	48.0	
		出現日	27	28	28	3	19	27	1	1	17	4	20	13	23	4月3日
		出現時	-	-	-	-	-	-	-	-	-	-	-	-	-	5月19日
月總量最大			120.5mm												10月	

1978年

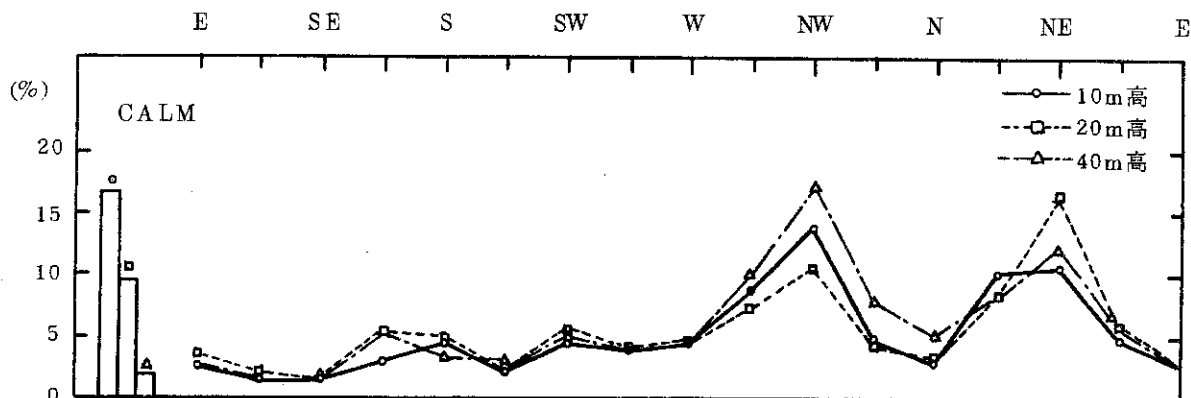


Fig. 6.1-1 年間風向頻度

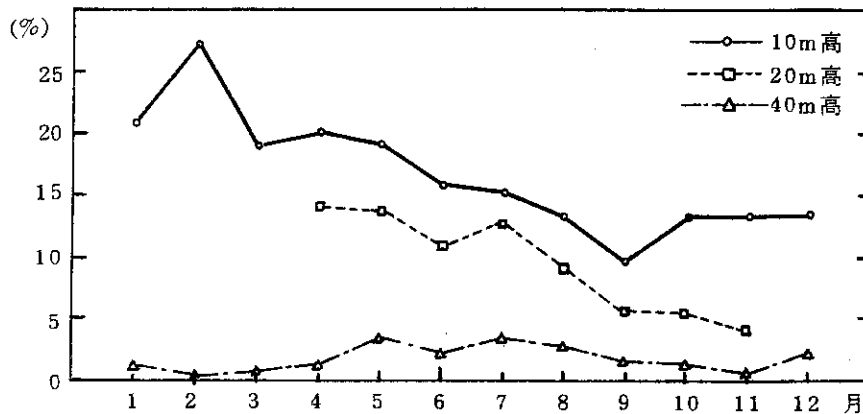


Fig. 6.1-2 月別静穏出現頻度

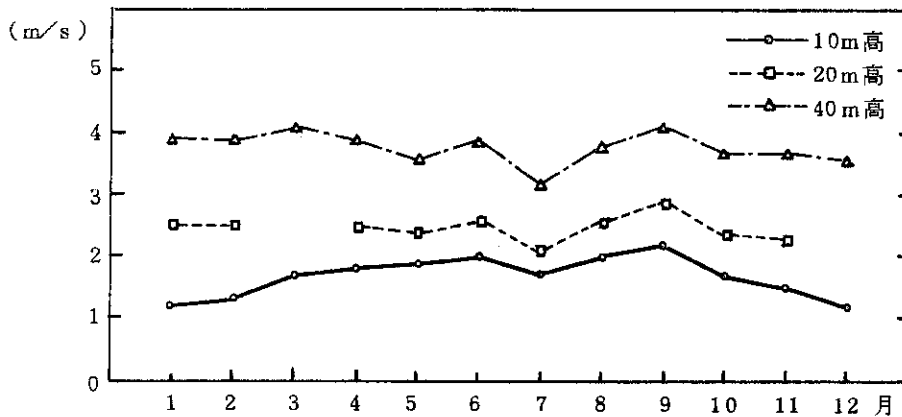


Fig. 6.1-3 月平均風速

1978年

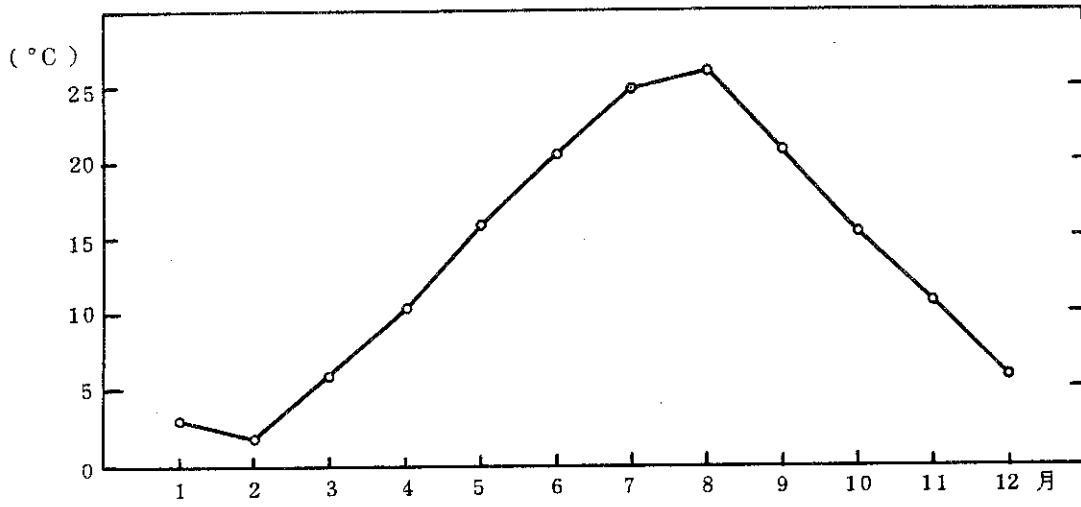


Fig. 6.1-4 月平均気温

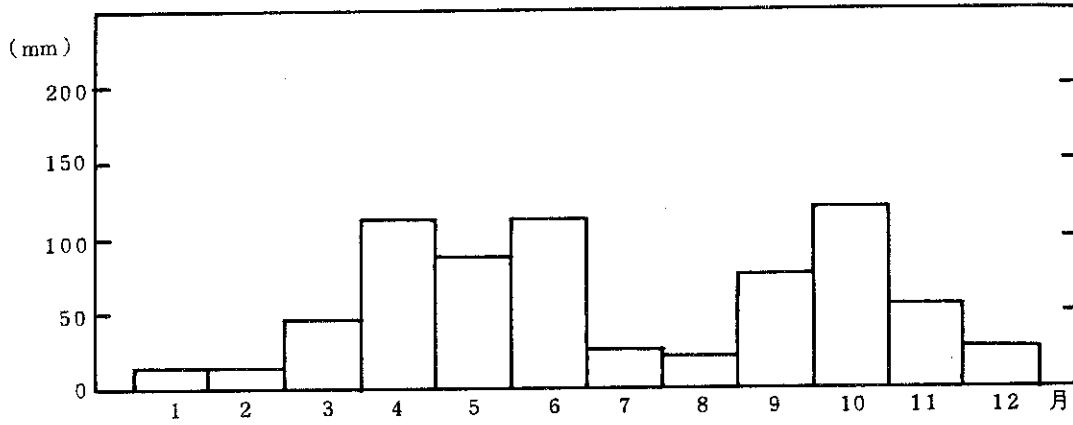


Fig. 6.1-5 月間降水量

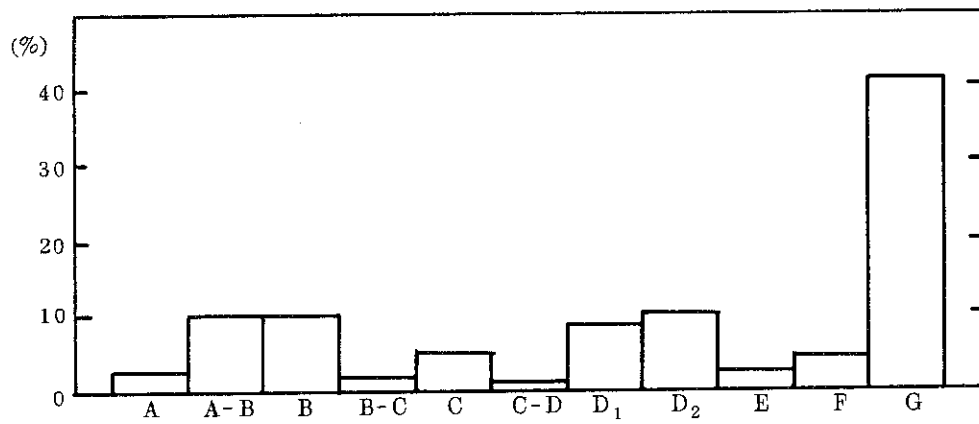


Fig. 6.1-6 大気安定度年間出現頻度

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6.2 月間統計結果

TABLE 6.2- 1A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMIDITY PERCENT	PRECIPITAT. MM	SOLAR RAD. CAL/SGCM/DAY	NET RAD. CAL/SGCM/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	8.2	62.0	0.5	91.8	-129.9	1.2	2.3	3.4
2	4.4	56.4	0.5	103.2	-183.0	1.8	3.0	4.7
3	1.0	81.0	2.0	101.4	-184.8	1.9	3.6	5.0
4	0.9	73.0	0.0	279.0	-283.8	0.8	2.2	3.2
5	3.4	56.2	0.0	282.0	-291.6	1.4	3.3	4.8
6	3.8	62.9	1.5	272.4	-257.1	0.9	2.1	3.0
7	4.3	65.1	0.0	257.4	-258.0	1.1	2.2	3.3
8	2.9	64.3	2.5	66.6	-175.8	0.7	1.7	3.0
9	5.1	71.9	0.0	253.2	-241.2	1.6	3.3	4.9
10	3.3	42.7	0.0	206.4	-273.6	2.4	4.4	6.6
11	1.2	61.1	0.0	285.6	-266.4	0.8	2.0	2.8
12	3.8	58.8	0.0	287.4	-289.2	1.7	3.1	4.7
13	3.7	63.2	0.0	180.0	-180.6	1.0	2.0	3.4
14	6.4	75.1	1.0	217.2	-138.0	0.9	1.9	2.9
15	7.3	67.4	0.0	277.8	-229.8	1.6	3.2	4.5
16	3.1	48.9	0.0	110.4	-270.0	1.0	2.0	3.8
17	1.8	45.9	0.0	258.6	-254.4	0.7	1.7	3.1
18	0.7	83.8	2.0	55.2	-73.2	1.0	2.2	3.8
19	2.6	71.8	0.0	300.6	-235.8	1.2	2.7	3.9
20	2.4	62.0	0.0	309.0	-252.6	0.7	1.2	2.7
21	3.9	67.5	0.0	97.6	-165.0	1.0	2.4	3.8
22	2.2	51.3	0.0	269.4	-306.6	2.6	5.7	7.3
23	2.0	52.2	0.0	290.9	-283.2	1.2	2.6	4.0
24	2.7	63.9	0.0	136.8	-174.6	0.7	2.0	3.1
25	2.6	42.5	0.0	321.6	-307.8	1.8	3.2	5.7
26	1.5	59.5	0.0	156.0	-177.6	0.6	1.6	2.9
27	5.7	70.5	5.0	295.8	-139.2	0.9	1.9	3.0
28	2.9	54.0	0.0	181.2	-243.0	1.3	2.5	4.8
29	0.3	47.7	0.0	190.2	-283.2	0.7	1.7	3.1
30	-1.0	65.4	0.0	127.8	-215.4	0.5	1.5	2.8
31	0.3	67.4	0.0	294.0	-233.4	0.7	1.9	3.2
MONTH	3.0	63.9	15.0	211.2	-225.9	1.2	2.5	3.9
LACK	3	18	1	1	2	3	3	3

TABLE 6.2- 1B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	MNW	NW	NNW	N
10M	20.9	5.8	0.9	0.7	0.5	0.3	0.3	0.4	0.4	0.4	2.3	5.0	9.6	15.7	25.1	8.5	3.2
20M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40M	1.1	6.7	1.3	0.9	0.5	0.5	0.3	0.5	0.3	1.5	3.0	5.5	9.0	18.6	32.5	13.1	4.5

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TABLE 6.2-1E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TUTL
-0.4	155																		
0.5-0.9		6	1	2	2	1	1	2	1	2	5	11	36	61	74	29	12	0	155
1.0-1.9		17	4	2	2	1	1	1	2	1	8	13	24	38	73	23	10	3	244
2.0-2.9		11	5								2	9	7	10	22	10	2	0	219
3.0-3.9		4	1								2	4	3	3	12	1		0	78
4.0-4.9		2										4	1	3	4			0	30
5.0-5.9		2										3		3				0	10
6.0-6.9		1										1		1				0	4
7.0-7.9																		0	1
8.0-8.9																		0	0
9.0-9.9																		0	0
10.0-																		0	0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
TOTL	155	43	7	5	4	2	2	3	3	3	17	37	71	116	186	63	24	3	744
20M	0																		
-0.4	0																		
0.5-0.9																			
1.0-1.9																			
2.0-2.9																			
3.0-3.9																			
4.0-4.9																			
5.0-5.9																			
6.0-6.9																			
7.0-7.9																			
8.0-8.9																			
9.0-9.9																			
10.0-																			
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
TOTL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0
40M	8																		
-0.4	8																		
0.5-0.9		1	1	3	1	2	1	1	1	1	1	4	2	13	3	2	5	0	8
1.0-1.9		7	4	1	3	2	2	2	1	1	2	1	3	7	7	6	5	0	16
2.0-2.9		14	4	2					1	4	4	5	8	42	46	30	10	0	47
3.0-3.9		15	3							2	4	6	17	51	60	24	12	0	166
4.0-4.9		4	2							1	4	7	13	20	51	11	3	0	197
5.0-5.9		3								1	5	6	8	3	43	12	2	0	128
6.0-6.9		2								1	2	4	4	3	12	8	1	0	86
7.0-7.9		2								1	4	4	4	2	8	3		0	38
8.0-8.9		3								1	1	1	1	3	6	1		0	23
9.0-9.9		1								2	2	2	2	1	2	1		0	8
10.0-		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	0
TOTL	8	50	10	7	4	2	2	4	2	11	22	41	67	138	241	97	33	3	744

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TABLE 6.2- 2A DAILY AVERAGES

DATE	AIR TEMP. C. DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SQCM/DAY	NET RAD. CAL/SQCM/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	-0.9	63.3	0.0	307.8	-295.8	1.2	3.0	4.6
2	-1.3	55.7	0.0	310.2	-257.4	0.7	1.8	3.0
3	-1.9	59.5	0.5	297.6	-320.4	1.0	2.6	3.8
4	-0.9	61.2	0.0	331.8	-304.2	1.4	2.5	4.3
5	1.0	52.7	0.0	330.6	-289.2	1.2	2.6	4.7
6	-1.7	65.9	0.0	**	-217.6	0.5	1.7	3.3
7	5.5	**	0.0	341.3	**	1.0	1.8	3.6
8	3.6	47.1	0.0	333.9	-185.2	1.3	2.3	4.2
9	**	**	1.0	**	-86.7	**	**	**
10	5.1	88.6	0.5	**	-31.5	2.3	3.6	4.6
11	6.0	71.2	0.0	81.0	-67.8	1.5	2.5	3.4
12	**	**	**	**	**	**	**	**
13	4.6	55.6	0.0	367.2	-291.4	1.4	2.6	4.1
14	1.4	53.1	0.0	388.0	-183.0	1.7	3.1	5.5
15	-0.1	56.0	0.0	223.6	-220.8	1.1	2.5	3.2
16	-0.9	53.9	0.0	415.8	-226.5	0.9	2.1	2.9
17	0.4	56.2	0.0	**	-138.7	2.0	3.9	5.0
18	1.6	51.6	0.0	365.4	-302.7	1.0	2.2	4.2
19	-0.6	62.5	0.0	269.4	-286.2	0.6	1.7	2.7
20	2.8	64.3	0.0	409.6	-217.9	1.4	3.0	4.0
21	1.8	64.2	0.0	285.1	-274.5	1.3	2.6	4.4
22	1.6	51.8	0.0	415.8	-245.4	0.9	2.1	3.5
23	1.8	57.6	0.0	364.9	-243.0	1.8	3.3	5.0
24	1.6	**	0.0	**	-223.9	1.3	2.8	3.6
25	1.9	69.2	0.0	173.4	-172.8	0.9	1.9	3.1
26	2.0	50.7	0.0	424.6	-249.0	1.0	2.0	3.0
27	5.9	59.2	0.0	384.9	-203.4	2.1	3.4	4.5
28	8.3	72.6	12.0	300.6	-102.0	2.1	3.4	4.3
MONTH	1.9	60.3	14.0	314.0	-215.3	1.3	2.5	3.9
LACK	137	167	93	73	64	137	137	137

TABLE 6.2- 2B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	
10M	27.2	10.2	3.5	1.3	0.7	0.6	1.1	0.6	2.2	2.0	1.1	2.6	3.7	10.7	20.0	8.9	3.5
20M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40M	0.2	6.7	3.5	2.4	0.6	0.7	1.5	0.9	2.0	2.2	0.7	4.3	5.9	14.1	29.8	15.9	6.5

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TABLE 6.2-20 HOURLY AVERAGES AND STANDARD DEVIATIONS

TIME(HK)	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	0.7	0.7	0.7	0.7	0.5	0.6	0.5	1.2	1.7	1.6	2.2	1.9	2.1	2.1	1.9	1.5	1.5	1.5	1.5	1.5	1.3	1.1	1.1	1.0
SIGMA	0.8	0.9	0.6	0.8	0.6	0.6	0.6	0.7	0.9	0.9	0.9	0.8	1.2	1.6	1.1	0.9	1.1	1.1	1.3	1.1	0.9	0.9	1.0	1.0	1.0
20M																									
MEAN	2.2	2.0	2.2	2.1	2.0	2.1	2.0	2.2	2.6	2.7	3.4	3.0	3.2	3.1	2.7	2.7	3.0	2.9	2.9	2.9	2.8	2.5	2.7	2.5	2.5
SIGMA	1.2	1.2	1.3	1.2	1.3	0.9	1.0	1.1	1.2	1.3	1.2	1.9	2.3	1.2	1.1	1.5	1.5	1.6	1.4	1.4	1.2	1.4	1.3	1.5	1.5
40M																									
MEAN	3.7	3.4	3.6	3.7	3.5	3.6	3.5	3.2	3.0	3.4	3.3	4.2	3.8	4.2	4.3	4.1	4.3	4.9	4.8	4.7	4.5	3.8	4.0	3.8	3.8
SIGMA	1.3	1.4	1.3	1.3	1.5	1.4	1.4	1.7	1.3	1.6	2.1	1.8	2.6	3.2	1.9	1.7	2.0	1.9	1.5	1.6	1.5	1.5	1.3	1.6	1.6
TEMPERA-																									
TURE																									
MEAN	-0.7	-1.3	-1.6	-2.0	-2.0	-2.9	-3.0	-0.6	1.9	4.1	5.4	6.4	6.4	6.4	7.5	6.8	5.4	4.0	3.0	2.4	1.9	1.1	0.6	0.3	
SIGMA	3.2	3.4	3.5	3.5	3.4	3.7	3.6	2.9	2.6	2.3	2.4	2.5	2.3	2.3	2.6	2.8	2.9	3.2	3.2	3.3	3.4	3.7	3.6	3.8	
HUMIDITY																									
MEAN	67.6	70.0	71.8	73.0	73.8	76.6	75.1	65.9	55.5	47.8	43.7	44.7	42.7	44.3	40.7	44.9	48.7	53.0	55.6	59.6	60.7	64.0	65.2	66.2	66.2
SIGMA	11.3	10.9	11.1	11.3	12.2	11.2	11.5	10.0	10.3	15.3	18.9	17.7	15.7	18.9	14.7	15.1	17.3	17.3	14.5	14.8	14.0	13.4	12.8	11.7	11.7
LAPSE																									
RATE																									
MEAN	2.3	2.6	3.0	3.9	3.8	3.9	3.1	-1.3	-2.6	-3.0	-3.2	-3.1	-2.7	-2.3	-2.0	-1.4	-0.6	0.3	1.3	0.8	0.6	1.6	1.9	2.2	
SIGMA	3.4	3.4	3.3	4.5	3.5	3.6	3.3	1.5	1.1	0.9	0.7	0.7	0.7	0.9	0.4	0.3	0.7	1.7	3.3	2.5	2.0	3.1	3.0	3.2	
STABIL.																									
RATIO																									
MEAN	**	**	**	**	**	**	**	**	-1.4	-1.0	-1.4	-0.8	-0.9	-0.8	-0.5	-0.5	-0.3	0.2	-0.0	0.2	0.0	0.5	0.0	**	
SIGMA	**	**	**	**	**	**	**	**	0.9	0.6	1.1	0.6	0.6	0.7	0.4	0.4	0.2	0.8	0.4	0.9	0.7	1.3	0.3	**	
RADIA-																									
TION																									
MEAN	-15.5	-15.1	-15.0	-15.0	-14.5	-15.6	-10.4	16.1	30.1	41.9	51.0	50.4	44.5	33.8	26.9	13.7	-12.0	-14.5	-14.7	-14.3	-13.8	-13.6	-15.2	-15.3	
SIGMA	7.6	7.5	7.4	7.5	7.3	7.1	6.5	7.3	11.7	14.4	15.3	16.3	15.0	15.6	10.1	5.6	6.7	7.3	6.8	6.9	8.0	8.0	7.4	7.4	

TABLE 6.2-20 FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	26			1	2			1	1	4	4	6	6	4	3	1		
A-B	52			1	1	1		1	3	3	6	11	19	10	4	4	2	
B	52	4	2	1	1	2		1	1	2	5	7	9	10	5	1		
B-C	9	2						1	1		1	1	3	1				
C	13	1						1	1	1	1	1	2	4	2			
C-0	1								1									
D1	26	3	3	1	1			1	1	1	1	1	1	1	5	7	2	
D2	36	11	2	1	2	1		2	1	1	3	3	3	3	9	1		
E	21	12	6	1														
F	17	10	3															
G	282	11	1	1	1	1	1	3	9	2	21	19	56	84	51	22		
LACK	137	4			1													

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TABLE 6.2-2E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL
-0.4	147																	0	147
0.5-0.9		15	1	2	1	2	2	1	3	1	1	5	4	31	38	23	9		122
1.0-1.9		24	7	1	1	1	4	1	3	8	4	3	11	17	47	18	9		122
2.0-2.9		10	8	1				2	1	2	1	5	3	6	18	6	1		146
3.0-3.9		2	3						2		1	1	2	3	4	1			77
4.0-4.9																			34
5.0-5.9														1					7
6.0-6.9																			1
7.0-7.9															1				0
8.0-8.9																			0
9.0-9.9																			0
10.0-																			0
LACK	4	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	132	137
TOTL	147	55	19	7	4	3	6	3	12	11	6	14	20	58	108	48	19	132	672
20M	0																		12
-0.4	0																		22
0.5-0.9																			172
1.0-1.9																			146
2.0-2.9																			99
3.0-3.9																			50
4.0-4.9																			21
5.0-5.9																			9
6.0-6.9																			2
7.0-7.9																			0
8.0-8.9																			2
9.0-9.9																			0
10.0-																			0
LACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	137	137
TOTL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	672	672
40M	1																		0
-0.4	1																		1
0.5-0.9		1		1			1		1	1	1	5	6	2	1	4	2		8
1.0-1.9				2		4	5		2	5	2	8	8	15	8	18	4		48
2.0-2.9		4	6	2			2	1	2	1	3	11	11	19	32	25	9		111
3.0-3.9		14	3	2	1				4	3	2	4	4	14	30	19	10		128
4.0-4.9		13	4	2				3	1	2	1	3	3	13	23	13	7		103
5.0-5.9		8	2	3				1	2	1	1	1	1	18	6	2	1		69
6.0-6.9		2	2	1										1	1	1			39
7.0-7.9		2	2											1	3	2			13
8.0-8.9		1																	11
9.0-9.9																			2
10.0-																			0
LACK	4	0	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	132	137
TOTL	1	47	19	13	3	4	8	5	11	12	4	23	32	76	161	66	35	132	672

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TABLE 6.2- 3A DAILY AVERAGES

DATE	AIR TEMP. C. DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SQCM/DAY	NET RAD. CAL/SQCM/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	**	**	**	**	-315.0	**	**	**
2	2.5	49.1	0.0	427.5	-281.4	1.1	2.4	3.5
3	4.8	66.5	0.0	202.5	-165.6	0.6	1.4	2.4
4	8.6	74.7	0.0	262.8	-116.4	1.3	2.4	4.0
5	6.1	55.4	0.0	415.2	-172.2	2.0	3.3	4.6
6	5.4	59.6	0.0	**	-175.2	1.1	2.1	3.4
7	5.0	74.9	0.0	369.5	-180.0	1.0	1.6	2.5
8	6.9	67.1	0.0	375.0	-148.8	2.2	3.4	4.5
9	6.2	66.6	0.0	294.0	-78.4	3.0	4.5	5.5
10	8.6	80.7	13.0	76.2	-35.4	4.0	**	8.2
11	7.2	58.7	0.0	399.0	-232.2	2.0	3.4	4.9
12	2.6	65.1	1.0	246.4	-194.4	0.9	1.5	3.1
13	3.5	57.5	0.0	451.2	-168.6	1.1	2.0	3.0
14	3.2	53.5	0.0	414.0	-271.2	0.9	1.8	2.9
15	4.4	52.5	0.0	480.6	-199.8	1.2	2.1	3.2
16	3.5	65.9	0.0	347.4	-199.2	1.1	**	3.0
17	5.2	58.8	0.0	489.0	-208.8	1.7	**	4.3
18	7.1	61.1	0.0	432.6	-132.6	1.2	**	3.2
19	7.2	70.2	10.5	142.2	-157.2	1.8	**	4.7
20	7.5	50.7	0.0	510.0	-253.2	1.6	**	4.1
21	5.1	66.3	1.0	184.6	-100.2	2.6	**	5.3
22	6.0	77.2	0.5	189.6	-52.8	4.1	**	7.4
23	2.9	86.3	0.0	264.0	-116.4	1.5	**	3.2
24	5.2	69.7	0.0	505.2	-181.8	1.1	**	3.1
25	8.3	66.0	0.0	463.2	-221.4	1.6	**	3.8
26	8.9	62.8	0.0	506.4	-220.2	1.4	**	3.4
27	9.4	63.5	0.0	495.0	-226.2	1.8	**	4.0
28	6.9	82.8	21.0	67.2	-137.4	1.1	**	3.4
29	8.6	59.0	0.0	547.2	-236.8	1.9	**	4.1
30	7.4	62.6	0.0	442.6	-160.2	2.0	**	4.4
31	3.7	56.4	0.0	300.6	-187.8	1.5	**	3.4
MONTH	6.0	64.6	47.0	353.0	-176.5	1.7	**	4.1
LACK	30	44	21	22	8	30	422	30

TABLE 6.2- 3B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	19.0	11.8	6.7	7.3	2.5	1.7	1.8	4.9	3.2	1.0	1.8	2.2	3.4	9.2	14.4	5.6	3.4
20M	2.8	3.0	2.4	1.3	1.7	2.3	0.7	5.1	1.6	2.3	1.9	7.9	5.5	21.6	29.0	7.2	3.6
40M	0.7	10.6	7.3	8.1	4.2	1.5	3.4	5.7	2.2	1.0	2.5	2.1	4.6	9.0	20.6	10.9	5.5

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TABLE 6.2-3C 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	1.0	1.0	1.0	1.1	1.2	1.1	1.4	1.6	1.9	2.2	2.4	2.7	3.1	3.1	2.7	2.2	2.3	1.8	1.8	1.6	1.2	1.2	0.9	0.9
SIGMA	1.0	1.3	1.4	1.6	1.6	1.3	1.5	1.5	1.1	1.2	1.0	1.0	1.3	1.0	1.2	1.2	1.4	1.4	1.7	2.0	1.0	1.1	0.8	1.1
20M																								
MEAN	1.8	1.6	1.7	1.9	1.8	2.1	2.0	2.2	2.7	3.3	3.4	2.8	4.7	4.1	4.2	3.1	3.2	3.1	2.9	2.7	2.5	2.2	1.4	1.6
SIGMA	1.1	1.2	0.9	0.7	0.8	0.9	1.2	1.4	1.2	1.4	1.6	1.6	2.6	1.7	2.3	2.5	1.9	2.3	2.7	3.2	1.5	1.0	0.6	1.1
40M																								
MEAN	3.8	3.5	3.7	3.6	3.9	3.8	2.7	3.5	3.7	3.8	4.2	4.8	5.4	5.3	5.2	4.3	4.9	4.4	4.5	4.2	3.8	3.6	3.3	3.2
SIGMA	1.7	2.1	1.7	2.1	2.3	1.7	2.0	2.3	1.8	1.8	1.7	2.0	2.5	2.0	2.5	2.4	2.6	2.6	2.9	2.7	1.7	2.0	1.3	1.8
TEMPERATURE																								
MEAN	3.0	2.6	2.5	2.1	2.0	2.0	3.2	5.3	7.3	8.9	9.4	10.0	10.4	10.5	9.5	9.2	8.4	7.7	7.0	6.3	5.5	4.7	4.0	3.1
SIGMA	2.6	2.6	2.9	2.9	2.9	2.9	2.8	2.4	2.7	2.7	3.0	3.1	3.1	3.0	3.4	3.0	2.6	2.7	2.9	3.2	3.2	2.6	2.8	3.0
HUMIDITY																								
MEAN	71.3	73.5	74.5	75.9	76.3	76.4	72.2	64.4	56.5	52.3	52.7	51.7	54.6	54.0	57.8	57.0	58.6	61.8	63.0	63.4	66.5	67.1	68.7	71.6
SIGMA	13.0	11.6	11.6	10.5	10.6	11.5	12.4	14.4	16.2	16.8	16.4	17.3	14.8	14.6	17.2	16.8	14.6	13.6	14.8	14.2	15.3	16.1	14.4	13.4
LAPSE RATE																								
MEAN	3.1	3.9	3.0	3.9	3.1	3.1	0.1	-1.5	-2.2	-2.8	-2.9	-3.0	-3.0	-2.8	-2.3	-1.9	-1.1	0.2	0.5	1.3	2.0	2.4	2.6	3.4
SIGMA	3.4	4.3	3.8	4.3	3.8	3.9	1.8	1.4	1.4	1.3	1.0	1.0	1.1	0.9	1.0	0.6	0.6	1.6	1.9	2.3	2.9	3.7	3.7	3.5
STABILITY RATIO																								
MEAN	**	**	**	**	**	**	1.6	-0.3	-0.5	-0.9	-0.9	-0.6	-0.6	-0.5	-0.4	-0.4	-0.3	-0.1	0.1	0.2	0.3	0.5	**	**
SIGMA	**	**	**	**	**	**	3.7	0.6	0.7	0.9	0.7	0.4	0.3	0.4	0.3	0.3	0.4	0.2	0.4	1.2	1.2	2.0	**	**
RAUATION																								
MEAN	-12.7	-12.6	-11.7	-11.4	-11.2	-9.6	-0.9	22.6	34.4	47.6	50.7	57.2	53.4	43.5	29.5	18.1	-6.8	-15.1	-15.0	-14.6	-13.9	-13.5	-13.7	-13.6
SIGMA	6.1	5.6	6.4	6.0	6.5	6.4	1.8	11.9	17.1	20.6	24.6	22.1	19.1	19.1	16.7	8.6	5.7	6.6	7.1	6.4	6.3	5.9	6.0	5.6

TABLE 6.2-3D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NW	N	LACK						
A	26			1	2	1	1	1			2	4	4	5	3	2	2							
A-B	66			4	6	7	5	6	3		2	3	6	9	10	3	2							
B	66	3		15	6	2	2	7	3	1	3	1	1	3	11	5								
B-C	14	1	7	5																				
C	33	7	6	8				4	3	1	1	1	1	1	1									
C-D	8	1	1																					
D1	42	7	3	2	1	1	6	4	1	1	1	1	1	3	8	3	2							
D2	65	21	12	3	3	1	1	3	1	1	1	1	1	13	8	2	1							
E	22	7	3	6	4	1	1	1	1					1	3									
F	39	14	6	4	1	4	1	4	4					2	4	2	1							
G	331	25	7	5	4	4	5	6	6	5	8	13	16	56	102	44	25							
LACK	30																							30

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TABLE 6.2-3E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL	
-0.4	136																			
0.5-0.9		5	2	1	4		3		4	1	5	7	11	32	59	20	6	0	136	
1.0-1.9		21	5	7	5	4	4	8	2	4	3	7	8	19	24	16	13		160	
2.0-2.9		32	14	19	7	7	6	15	9	1	1	1	3	8	12	4	2		151	
3.0-3.9		11	16	22	2			7	3	3	3	1	1	3	5		2		141	
4.0-4.9		3	8	3				4	4	1	1		1	2	2		1		75	
5.0-5.9		5	2														1		29	
6.0-6.9		4	1								1			2	1		1		9	
7.0-7.9		3						1											8	
8.0-8.9																			3	
9.0-9.9																			1	
10.0-																			0	
LACK		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0		1	
TOTL	136	84	48	52	16	12	13	35	23	7	13	16	24	66	103	40	24	30	30	744
20M																				
-0.4	4																			
0.5-0.9		1	2	2	3	1	1	2	2		3	5	1	10	20	9	2	5	9	
1.0-1.9		2										4	1	13	8		2	24	34	
2.0-2.9		1	1							1		2	2	3	2		2	43	98	
3.0-3.9													1	3	2		1	38	78	
4.0-4.9										1			1	3	2		1	26	36	
5.0-5.9								3		1			1	2	2			27	36	
6.0-6.9								1		1		1	1		2			13	19	
7.0-7.9																		1	4	
8.0-8.9																		2	2	
9.0-9.9																		1	1	
10.0-																		1	1	
LACK		0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	4	
TOTL	4	4	3	2	3	3	1	7	3	2	3	12	7	30	40	11	5	422	422	
40M																				
-0.4	5																			
0.5-0.9		1	1	1	3	3	3	1	1	1	1	4	1	3	3	1	1	0	5	
1.0-1.9		3	4	2	4	3	3	1	2	1	2	4	3	5	11	10	7	0	9	
2.0-2.9		3	4	2	4	3	3	1	4	4	4	3	13	22	41	23	14		63	
3.0-3.9		17	5	5	5	4	12	6	1	2	4	3	7	19	40	18	7		147	
4.0-4.9		21	13	13	6	3	5	13	4	2	4	4	4	5	34	16	6		157	
5.0-5.9		11	15	17	3			7	4	2	2	1	3	3	10	6	1		148	
6.0-6.9		5	4	16	3			2	4	2	2	1	3	3	10	6	1		85	
7.0-7.9		2	1	3	3			2	2	2	2	1	2	5	2	2	1		40	
8.0-8.9		4	2	1	1			3	1	1	1	2	1	3	3	1	2		16	
9.0-9.9		2	2				1	3					1	1	3	1			17	
10.0-		7	1				2	3		1	2		1	2	2		1		10	
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30	
TOTL	5	76	52	58	30	11	24	41	16	7	18	15	33	64	147	78	39	30	30	744

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TABLE 6.2- 4A DAILY AVERAGES

DATE	AIR TEMP. U. DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/CM ² /DAY	NET RAD. CAL/CM ² /DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	3.9	63.7	0.0	576.6	-247.8	1.3	**	3.9
2	4.4	67.8	3.0	342.6	-108.0	1.4	**	3.1
3	5.5	85.0	48.0	62.7	-63.0	2.8	**	6.1
4	4.6	60.6	0.0	536.1	-160.2	1.1	1.4	2.4
5	7.6	73.7	0.0	531.3	-133.8	0.8	1.1	2.1
6	9.0	86.5	24.0	121.0	-64.8	1.3	1.9	3.4
7	9.8	57.5	0.0	513.0	-183.6	2.0	3.3	3.8
8	12.2	47.0	0.0	600.6	-241.8	2.6	4.0	6.2
9	13.5	60.2	0.0	569.4	-207.0	2.0	2.7	4.5
10	11.1	50.0	0.0	455.6	-192.6	2.0	2.2	4.7
11	7.3	60.3	0.0	316.0	-114.6	2.3	2.7	4.0
12	8.9	83.3	9.5	147.0	-69.6	2.8	3.5	4.9
13	8.4	84.8	1.0	169.2	-130.2	1.3	1.8	2.9
14	8.4	72.9	0.0	614.4	-163.2	1.5	2.0	2.9
15	15.0	68.3	0.0	526.6	-159.0	1.7	2.6	3.5
16	17.8	69.7	0.0	357.0	-121.8	3.2	4.6	7.2
17	12.3	61.6	0.0	159.0	-73.2	1.8	2.3	3.7
18	10.2	75.9	16.0	239.4	-457.6	2.9	3.8	5.4
19	10.7	74.7	2.5	566.4	-39.6	2.5	3.1	4.2
20	14.6	68.4	0.0	456.0	-56.4	1.7	2.3	3.4
21	10.1	64.4	0.0	253.8	-146.4	1.4	2.0	3.0
22	9.3	65.9	0.0	506.3	-181.8	1.1	1.6	3.1
23	12.0	64.4	0.0	450.0	-133.2	2.1	2.7	4.2
24	13.8	76.4	0.0	201.0	-87.0	1.1	1.5	2.5
25	12.3	76.6	6.5	170.4	-166.2	1.1	1.4	2.8
26	**	**	**	**	**	**	**	**
27	17.1	54.4	0.0	**	-195.0	3.2	4.4	6.2
28	14.0	65.0	0.0	564.6	-156.0	1.5	1.9	2.6
29	12.8	77.6	0.0	199.8	-69.0	2.0	2.5	3.6
30	**	**	**	**	**	**	**	**
MONTH	10.5	69.9	113.5	383.5	-132.6	1.8	2.5	3.9
LACK	60	91	50	35	25	60	123	62

TABLE 6.2- 4B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	20.2	10.2	14.9	4.2	2.3	2.5	1.5	3.6	3.9	2.3	5.8	4.1	4.2	6.2	9.6	2.6	2.1
20M	14.1	7.0	15.9	5.1	2.6	3.3	1.4	4.5	3.0	3.3	5.3	5.0	5.1	7.3	11.2	3.5	2.5
40M	1.4	6.9	17.1	5.9	2.7	3.4	0.7	5.9	3.6	3.8	8.1	4.3	4.4	5.5	13.8	6.0	4.6

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TABLE 6.2-4C 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 SPO																								
H=																								
10M																								
MEAN	1.2	1.2	1.0	1.0	0.9	0.7	1.0	1.5	2.0	2.5	2.8	3.3	3.2	3.1	3.1	2.8	2.6	2.1	1.8	1.4	1.5	1.3	1.3	1.4
SIGMA	1.4	1.3	1.0	1.0	0.8	0.8	0.8	1.1	1.1	1.4	1.5	1.8	1.4	1.4	1.6	1.2	1.2	1.9	1.2	1.2	1.0	1.1	1.1	1.4
20M																								
MEAN	1.8	1.8	1.6	1.6	1.6	1.3	1.2	1.5	2.4	3.0	3.4	3.9	4.1	4.1	4.0	3.6	3.5	2.8	2.5	1.9	2.2	2.0	1.9	2.1
SIGMA	1.8	1.8	1.4	1.2	1.1	1.1	1.1	1.5	1.4	1.8	1.8	1.9	2.0	2.0	2.1	1.6	1.6	2.4	1.6	1.4	1.4	1.6	1.6	1.9
40M																								
MEAN	3.4	3.6	3.3	3.2	3.2	2.8	2.4	2.9	3.5	4.4	4.2	5.2	5.2	5.6	5.3	4.8	4.7	4.3	4.0	3.6	3.8	3.6	3.5	3.7
SIGMA	2.0	2.1	1.8	1.8	1.7	1.2	1.4	1.8	2.0	3.0	2.7	3.4	2.9	2.7	2.8	2.0	2.0	2.8	1.8	1.8	1.9	2.1	2.2	2.1
TEMPERATURE																								
MEAN	7.8	7.3	6.9	6.6	6.2	6.7	8.5	10.7	12.1	12.9	13.5	14.0	14.2	14.2	14.0	13.8	12.8	11.9	11.2	10.6	10.2	9.6	9.0	8.6
SIGMA	4.3	4.3	4.4	4.2	4.1	4.1	3.6	3.5	3.6	4.1	4.4	4.7	5.3	5.2	5.0	4.5	4.5	3.7	3.4	3.4	3.6	3.9	3.9	4.0
HUMIDITY																								
MEAN	77.4	76.2	76.2	76.0	76.6	76.5	72.4	64.5	61.1	63.6	62.1	63.4	61.9	62.6	62.6	62.2	64.9	67.7	68.1	69.9	71.6	73.1	75.1	76.3
SIGMA	10.9	13.0	14.0	15.3	14.8	11.8	13.1	14.9	16.0	13.2	12.4	13.0	16.6	16.4	16.9	14.5	15.1	13.3	13.0	13.3	13.0	12.0	11.1	11.5
LAPSE RATE																								
MEAN	3.3	3.4	3.9	3.6	3.6	2.8	-0.6	-1.9	-2.3	-2.3	-2.5	-2.7	-2.6	-2.4	-2.1	-1.9	-1.3	-0.2	0.7	1.6	1.9	2.7	3.1	3.2
SIGMA	4.3	4.2	4.7	4.0	4.0	4.1	1.7	0.6	0.9	0.9	1.1	1.2	1.2	1.0	0.9	0.7	0.7	1.9	2.8	4.3	3.2	3.8	4.7	4.1
STABIL. RATIO																								
MEAN	1.5	1.1	1.1	0.5	1.8	**	-0.6	-0.6	-0.6	-0.5	-0.5	-0.5	-0.4	-0.3	-0.4	-0.4	-0.3	-0.0	-0.0	-0.1	0.4	1.2	2.1	1.5
SIGMA	3.4	2.3	3.3	1.5	3.9	**	0.7	0.3	0.7	0.5	0.4	0.5	0.4	0.4	0.5	0.5	0.4	0.8	0.6	0.6	1.1	3.2	3.6	2.5
RADIATION																								
MEAN	-10.7	-11.4	-10.5	-10.5	-10.3	-1.9	16.0	26.5	37.6	45.1	48.5	52.1	49.1	41.7	34.0	22.0	10.9	10.2	-11.8	-11.7	-11.6	-11.1	-10.5	-10.5
SIGMA	6.0	6.0	6.2	5.7	5.6	3.4	8.4	14.7	21.7	25.9	27.5	28.6	26.4	22.7	17.6	10.7	4.9	6.5	7.0	6.5	6.1	6.1	6.2	6.2

TABLE 6.2-4D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ESE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	18	1		4	2	4		2		1	4	1	1	1				
A-B	62		5	6	4	4	1	7	1	2	4	6	3	3	11	1	3	
B	62	5	7	7	2	1	5	2	5	1	5	4	1	6	5	5	1	
B-C	17		7				3				3				3			
C	58	6	15				6		4	4	7	4	4	4	4			
C-D	7								2	2	1							
D1	71	11	19	6	2	2	1	1	7	1	5	1	1	2	4	4	3	
D2	57	13	11	1	1	1	1	2	2	3	2	1	1	10	6	2	2	
E	24	9	9					1	1		1			3	3			
F	42	6	17					2	2	2	5	3	1	2	4			
G	242	21	11	7	8	2	4	3	6	11	6	16	22	32	73	11	7	
LACK	60					4				1								54

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TABLE 6.2-4E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL	
-0.4	134																			134
0.5-0.9		7	3	5	3	3	4	3	1	3	3	3	5	18	28	2	5	0		96
1.0-1.9		17	14	7	7	7	2	4	6	8	9	6	15	13	19	6	5			145
2.0-2.9		24	43	10	4	3	4	9	8	1	7	10	3	5	10	6	2			149
3.0-3.9		16	27	5	1			5	3	1	6	5	3	3	5	2	1			80
4.0-4.9		3	7	1				3	5	1	9	1	3	1	1	1	1			35
5.0-5.9			1					3	2	2	2	2	1	2	1					13
6.0-6.9		1	2					2	2	2	2									5
7.0-7.9									1											0
8.0-8.9			1						1											2
9.0-9.9																				0
10.0-		1																		0
LACK		0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0			1
TOTL	134	68	59	28	15	17	10	24	26	15	39	27	28	41	64	17	14	54	54	60
20M																				
-0.4	83																			83
0.5-0.9		2	2	7	3	2	2	1	1	5	2	1	1	6	20	5	1			52
1.0-1.9		8	10	7	3	6	3	5	5	6	7	6	10	17	29	7	5			131
2.0-2.9		13	21	5	3	5	3	9	3	7	7	7	9	10	6	6	4			118
3.0-3.9		12	33	12	1	1	8	4	3	1	8	4	7	4	7	1	1			103
4.0-4.9		7	17	2	2		4	4	2	3	3	6	2	5	1					52
5.0-5.9		2	8				3	3	4	1	4	5	2	1	1					28
6.0-6.9			1					3	4	1	5	3	1	1	1					12
7.0-7.9									1		3	3	2	3						10
8.0-8.9		1	1						1		2	1	2							7
9.0-9.9											2	1	2							0
10.0-																				0
LACK		2	13	8	6	9	0	0	0	0	1	0	0	3	16	5	5	55	55	123
TOTL	83	47	106	35	18	22	9	30	20	22	35	33	34	49	79	25	18	55	55	720
40M																				
-0.4	3																			3
0.5-0.9		6	6	5	4	3		1	1	1	1	3	1	4	5	5	2	6	6	9
1.0-1.9		5	7	5	5	6		4	6	7	4	6	4	17	17	5	5	7	7	23
2.0-2.9		13	23	5	2	5	1	8	3	4	4	2	1	10	19	13	10	15	15	86
3.0-3.9		9	25	9	4	3	3	7	2	4	7	1	10	5	18	5	2	22	22	135
4.0-4.9		4	11	2	3	1	5	5	2	4	10	3	4	4	8	5	3	3	3	100
5.0-5.9		4	11	2	3	1	1	1	2	2	2	3	3	2	2	2	1	4	4	78
6.0-6.9		1	2	1	1	2	2	2	2	2	3	2	3	2	4	2	1	3	3	39
7.0-7.9			2	1		2	2	2	2	2	3	3	1	2	2	4	1	1	1	26
8.0-8.9		1	1			2	2	2	2	1	6	1	2	1	1			2	2	15
9.0-9.9		1	1					1	1	1	2	1	2					1	1	7
10.0-																				0
LACK		0	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	3	3	17
TOTL	3	52	102	34	15	19	4	34	20	21	47	24	26	31	76	34	26	58	58	62
																				152

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TABLE 6.2- 5A DAILY AVERAGES

DATE	AIR TEMP. C. DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SQCM/DAY	NET RAD. RAD. CAL/SQCM/DAY	WIND SPD(10) M/S		WIND SPD(20) M/S		WIND SPD(40) M/S	
						10	20	10	20	10	20
1	17.4	83.1	0.0	201.3	-26.7	3.5	4.2	4.2	5.9	5.9	5.9
2	14.8	85.0	2.5	163.8	-127.8	1.4	2.0	2.0	3.0	3.0	3.0
3	14.0	67.3	0.0	545.4	-116.4	1.9	2.5	2.5	3.7	3.7	3.7
4	15.9	71.6	0.0	491.4	-115.2	1.4	1.7	1.7	2.8	2.8	2.8
5	16.1	64.3	0.0	508.6	-144.6	1.6	2.1	2.1	3.4	3.4	3.4
6	11.4	56.5	0.0	333.0	-135.6	2.5	3.1	3.1	4.4	4.4	4.4
7	10.4	79.0	5.5	180.6	-72.6	0.8	1.1	1.1	2.5	2.5	2.5
8	14.6	75.8	2.0	530.6	-61.8	1.0	1.1	1.1	2.1	2.1	2.1
9	17.4	79.8	2.0	300.0	-30.6	3.0	3.6	3.6	5.0	5.0	5.0
10	17.1	67.5	0.5	164.4	-27.0	1.4	2.0	2.0	3.3	3.3	3.3
11	13.1	86.5	9.5	125.4	-37.8	1.5	2.1	2.1	3.1	3.1	3.1
12	16.1	76.4	0.0	641.4	-139.2	1.9	2.5	2.5	3.6	3.6	3.6
13	14.7	67.7	0.0	665.4	-184.8	2.3	2.9	2.9	3.9	3.9	3.9
14	14.9	71.0	0.0	567.6	-127.2	1.6	2.0	2.0	2.9	2.9	2.9
15	15.1	73.2	0.0	619.8	-171.6	2.2	2.7	2.7	4.2	4.2	4.2
16	12.8	82.3	0.0	588.6	-150.0	1.3	1.6	1.6	2.5	2.5	2.5
17	16.4	77.5	0.0	622.2	-98.4	1.6	2.0	2.0	3.0	3.0	3.0
18	17.7	60.5	10.5	157.3	-39.0	2.2	2.8	2.8	4.2	4.2	4.2
19	19.8	85.4	48.0	96.4	-62.4	2.6	3.6	3.6	5.3	5.3	5.3
20	15.8	82.3	0.0	238.2	-40.8	2.2	2.7	2.7	3.7	3.7	3.7
21	17.5	74.2	0.0	596.4	-84.0	1.6	1.9	1.9	2.9	2.9	2.9
22	15.8	74.1	0.0	331.2	-105.0	1.9	2.5	2.5	3.2	3.2	3.2
23	15.7	72.2	0.0	685.8	-139.8	2.0	2.5	2.5	3.4	3.4	3.4
24	16.8	68.7	0.0	462.0	-135.6	2.0	2.6	2.6	3.6	3.6	3.6
25	16.4	70.3	0.0	562.2	-134.4	2.5	3.1	3.1	4.1	4.1	4.1
26	17.3	75.6	0.0	621.6	-151.8	1.3	1.7	1.7	2.7	2.7	2.7
27	19.9	67.9	0.0	517.2	-111.0	1.5	2.1	2.1	3.4	3.4	3.4
28	16.5	62.6	0.0	622.2	-99.6	1.4	1.8	1.8	2.7	2.7	2.7
29	16.5	62.3	0.0	340.2	-45.0	3.5	4.3	4.3	5.8	5.8	5.8
30	12.8	85.5	8.0	134.4	-46.8	2.8	3.4	3.4	4.6	4.6	4.6
31	15.4	60.3	0.0	696.0	-121.8	1.4	1.9	1.9	3.1	3.1	3.1
MONTH	15.9	74.3	88.5	433.2	-100.6	1.9	2.4	2.4	3.6	3.6	3.6
LACK	11	11	9	5	6	11	11	11	11	11	11

TABLE 6.2- 5B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNN	NW	NNW	N
10M	19.1	4.2	19.1	6.7	2.9	2.0	3.4	5.7	13.5	2.9	3.5	3.5	3.3	3.4	5.0	1.2	0.4
20M	13.8	3.0	19.6	6.2	2.7	2.9	2.6	6.5	12.3	2.7	3.7	3.5	4.5	4.0	6.1	1.5	0.4
40M	3.5	3.1	20.1	9.0	3.0	2.5	3.8	11.2	11.6	3.4	4.1	3.0	3.3	5.2	8.0	3.0	2.2

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TABLE 6.2- 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	1.3	1.2	1.3	1.1	1.3	1.6	2.0	2.1	2.5	2.6	2.9	3.0	3.3	2.9	2.6	2.3	2.0	1.8	1.5	1.5	1.2	1.1	1.1	1.2
SIGMA	1.7	1.6	1.4	1.5	1.6	1.3	1.3	1.4	1.1	1.0	1.1	1.2	1.2	1.2	1.4	1.3	1.2	1.1	1.4	1.1	1.2	1.1	1.1	1.1	1.3
20M																									
MEAN	1.8	1.7	1.8	1.9	1.6	1.8	2.2	2.5	2.4	2.9	3.1	3.4	3.5	3.9	3.5	3.1	2.8	2.6	2.4	2.1	2.1	1.8	1.6	1.6	1.7
SIGMA	2.2	2.0	1.7	1.9	2.0	1.7	1.6	1.7	1.3	1.2	1.4	1.6	1.5	1.4	1.7	1.6	1.5	1.3	1.7	1.4	1.6	1.5	1.5	1.5	1.7
40M																									
MEAN	3.2	3.1	3.2	3.2	3.1	3.0	3.2	3.3	3.3	3.9	3.9	4.3	4.6	4.9	4.8	4.2	3.9	3.8	3.6	3.4	3.3	2.9	3.0	3.0	3.1
SIGMA	2.5	2.2	1.9	2.1	2.4	2.1	2.0	2.1	1.6	1.4	1.6	2.0	1.8	1.8	2.0	1.9	1.7	1.6	2.0	1.7	1.8	1.6	1.6	1.7	1.9
TEMPERA-																									
TURE																									
MEAN	14.0	13.6	13.2	13.1	12.9	13.9	15.1	16.4	16.9	17.4	18.0	18.0	17.9	17.8	17.6	17.3	16.8	16.2	16.1	15.6	15.2	14.8	14.8	14.5	14.5
SIGMA	2.4	2.6	2.7	2.9	3.0	2.7	2.5	2.6	2.7	2.9	3.1	3.0	2.9	3.0	2.9	2.9	2.8	2.7	2.8	2.6	2.6	2.8	2.6	2.6	2.5
HUMIDITY																									
MEAN	81.7	82.4	82.5	82.7	83.0	81.4	76.0	70.6	68.1	68.2	65.5	65.8	66.5	66.4	66.1	69.4	70.9	72.0	74.4	74.9	75.9	77.8	79.3	80.5	80.5
SIGMA	6.9	6.8	7.1	6.8	6.7	6.9	9.3	11.7	14.2	14.8	16.4	15.3	14.4	14.0	13.5	12.8	11.4	10.2	10.2	12.2	10.4	8.9	7.5	8.0	
LAPSE																									
RATE																									
MEAN	1.2	1.2	1.5	1.5	1.5	-0.4	-1.6	-2.1	-2.3	-2.6	-2.8	-2.8	-2.7	-2.7	-2.4	-2.0	-1.6	-0.7	0.5	0.3	0.7	1.2	1.1	1.1	
SIGMA	2.4	2.6	3.0	2.8	2.2	1.1	0.5	0.7	0.9	1.0	0.9	1.0	1.1	1.0	1.1	0.9	0.9	1.6	2.7	2.2	2.7	3.1	2.6	2.8	
STABIL.																									
RATIO																									
MEAN	**	1.0	**	0.2	**	-0.3	-0.4	-0.5	-0.7	-0.6	-0.6	-0.4	-0.4	-0.3	-0.4	-0.4	-0.3	0.0	0.0	-0.1	0.1	-0.2	0.4	0.7	
SIGMA	**	2.6	**	0.4	**	0.3	0.4	0.4	0.7	0.6	0.6	0.3	0.3	0.2	0.4	0.4	0.5	0.6	1.2	0.6	1.0	0.2	1.2	1.9	
RAJIA-																									
TIUN																									
MEAN	-8.9	-8.4	-8.0	-8.1	-5.5	-0.2	20.1	34.1	43.9	49.5	56.8	54.2	52.4	48.9	33.8	24.1	14.3	-5.9	-10.5	-9.7	-9.3	-8.9	-8.4	-8.6	
SIGMA	5.0	5.0	4.7	4.9	3.7	0.5	10.0	16.9	23.2	25.0	27.9	28.3	29.5	23.9	19.0	12.7	6.3	4.3	5.5	5.4	5.4	5.3	4.7	4.9	

TABLE 6.2- 5U FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	21			2	1	1			1	1	2	7	2	2	1			
A-B	68	1	5	12	9	9	11	17	7	4	2	3	3	5	3	1	1	
B	75	2	14	13	5	2	7	14	4	3	4	4	3	3	1	2	1	
B-C	20	2	11	3				1	2	1								
C	50	5	15	6	1				2	3	3	2			1			
C-D	12		3	1														
D1	70	5	20	3	1				3	23	1	4	1	2	4	1		
D2	97	3	35	2	2	1	1	5	28	4	2	1	4	3	3	2	.1	
E	14	1	6	1					2	1	2	1						
F	34	5	13	4	1				4	2	2	2	1	1				
G	252	9	27	9	5	6	10	4	22	14	9	13	23	27	48	20	6	
LACK	11																	11

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TABLE 6.2- 5E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL	
-0.4																				
0.5-0.9		3	2	1	3	7	8	4	9	6	6	8	11	9	19	9	1	0	140	
1.0-1.9	140	11	32	8	9	4	5	20	8	9	9	12	12	10	16	4	2	11	100	
2.0-2.9		10	31	30	12	6	11	14	3	6	6	5	1	6	2				158	
3.0-3.9		4	43	7	7	3	9	23	1	5	5	1							96	
4.0-4.9		2	17	2	2		20	2											41	
5.0-5.9		1	13	1			11	2											26	
6.0-6.9			2				2												4	
7.0-7.9																			0	
8.0-8.9																			0	
9.0-9.9																			0	
10.0-																			0	
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	
TOTL	140	21	140	49	21	15	25	42	95	21	26	26	24	25	37	9	3	11	744	
20M																				
-0.4																				
0.5-0.9		2	4	3	1	8	2	6	9	3	1	2	1	5	22	6	3	0	101	
1.0-1.9	101	6	17	18	6	5	7	11	13	9	6	8	17	12	16	5			74	
2.0-2.9		10	27	18	6	6	7	11	12	5	9	10	13	10	7				144	
3.0-3.9		1	35	28	7	2	3	21	11	2	7	4	2	2					151	
4.0-4.9		1	34	7	7	2		9	21	1	4	1							125	
5.0-5.9		1	10	3	1			13	7			1							78	
6.0-6.9		1	11	1				2	7										28	
7.0-7.9			5					4											9	
8.0-8.9			1																1	
9.0-9.9																			0	
10.0-																			0	
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	
TOTL	101	22	144	60	20	21	19	62	90	20	27	26	33	29	45	11	3	11	744	
40M																				
-0.4																				
0.5-0.9		10	1	2	2	2	2	1	1	1			1	2	3	1	4	0	26	
1.0-1.9	26	7	3	3	5	5	7	15	3	4			2	4	10	8	5		22	
2.0-2.9		3	22	6	5	2	11	6	15	11	5	3	10	17	22	9	5		97	
3.0-3.9		3	24	25	8	6	3	21	12	6	7	7	7	10	19	3	2		152	
4.0-4.9		3	24	17	6	7		19	8	1	6	2	3	4	4	1			165	
5.0-5.9		1	31	8	1			9	11	1	5	3	1	1	1				105	
6.0-6.9		2	13	4				10	12	1	2	1							73	
7.0-7.9		1	10	1				4	4		1								45	
8.0-8.9			8					3	4										22	
9.0-9.9			5					1	3										15	
10.0-			2					1	3										9	
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	
TOTL	26	23	147	66	22	16	28	82	85	25	30	22	24	38	59	22	16	11	744	

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TABLE 6.2- 6A DAILY AVERAGES

DATE	AIR TEMP. C/DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SCCM/DAY	NET RAD. CAL/SCCM/DAY	WIND SPD(10) M/S		WIND SPD(20) M/S		WIND SPD(40) M/S	
						10	20	10	20	10	20
1	19.0	48.0	0.0	591.6	-184.2	2.4	3.1	3.1	5.1	5.1	5.1
2	18.9	47.1	0.0	650.0	-175.8	1.5	2.0	2.0	3.3	3.3	3.3
3	18.2	53.2	0.0	504.6	-148.8	1.7	2.1	2.1	3.2	3.2	3.2
4	17.1	68.1	32.0	95.0	-37.2	2.7	3.4	3.4	4.8	4.8	4.8
5	17.9	69.6	5.0	426.9	-94.2	1.5	2.1	2.1	3.1	3.1	3.1
6	18.3	72.3	0.0	538.8	-104.4	1.3	1.7	1.7	2.4	2.4	2.4
7	18.2	69.6	0.0	612.6	-121.2	1.5	1.7	1.7	2.9	2.9	2.9
8	18.9	75.4	0.0	578.5	-137.4	2.1	2.7	2.7	3.9	3.9	3.9
9	22.1	67.2	0.0	607.4	-102.6	1.6	2.3	2.3	3.6	3.6	3.6
10	21.8	71.5	0.0	412.2	-120.0	1.7	2.3	2.3	3.6	3.6	3.6
11	21.8	70.3	0.0	462.0	-78.6	1.9	2.6	2.6	4.1	4.1	4.1
12	19.5	82.8	0.0	358.4	-46.2	1.0	1.3	1.3	2.2	2.2	2.2
13	17.5	86.9	1.0	356.4	-52.8	2.1	2.8	2.8	3.9	3.9	3.9
14	17.0	86.2	0.0	489.6	-64.8	2.1	2.6	2.6	3.6	3.6	3.6
15	21.0	79.5	0.0	640.2	-55.8	1.6	2.1	2.1	3.3	3.3	3.3
16	25.6	78.7	1.5	255.6	-37.2	2.5	3.5	3.5	5.2	5.2	5.2
17	27.1	69.7	0.0	615.0	-103.2	3.1	4.3	4.3	6.1	6.1	6.1
18	25.9	72.0	0.0	534.2	-117.0	2.1	2.6	2.6	4.2	4.2	4.2
19	25.3	72.0	0.0	631.8	-63.6	2.2	2.9	2.9	4.5	4.5	4.5
20	25.7	71.4	0.0	646.6	-84.6	2.4	3.2	3.2	4.8	4.8	4.8
21	25.8	72.5	0.0	368.4	-72.0	3.9	5.1	5.1	7.3	7.3	7.3
22	18.4	81.5	9.0	248.4	-25.8	2.9	4.0	4.0	5.6	5.6	5.6
23	17.6	89.7	14.5	135.0	-27.6	2.4	3.0	3.0	4.3	4.3	4.3
24	18.1	89.3	0.0	197.4	-30.6	0.6	0.6	0.6	1.3	1.3	1.3
25	22.7	86.4	2.5	218.4	-27.0	0.9	1.4	1.4	2.5	2.5	2.5
26	23.0	86.5	6.5	193.2	-32.4	1.2	1.7	1.7	3.0	3.0	3.0
27	17.9	89.3	33.0	174.6	-17.4	2.7	3.5	3.5	4.8	4.8	4.8
28	17.2	87.3	9.0	312.0	-22.2	3.5	4.4	4.4	6.0	6.0	6.0
29	16.5	84.1	0.0	636.0	-68.4	1.5	1.7	1.7	2.4	2.4	2.4
30	19.4	82.6	0.0	675.0	-116.4	1.7	2.0	2.0	2.6	2.6	2.6
MONTH	20.5	76.0	114.0	438.1	-79.0	2.0	2.6	2.6	3.9	3.9	3.9
LACK	10	26	4	10	0	10	10	10	10	10	10

TABLE 6.2- 6B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
1CM	15.8	4.5	15.2	7.7	4.3	1.6	1.7	5.4	7.3	5.3	12.0	6.9	2.7	3.5	3.9	0.3	0.4
2UM	11.0	3.4	16.1	7.3	4.6	2.2	1.3	7.2	6.2	3.9	15.1	7.6	3.4	3.8	4.2	0.6	2.4
4UM	2.3	3.6	17.9	6.4	3.4	2.4	2.5	6.0	6.6	7.6	15.9	6.4	3.5	4.5	5.0	1.1	2.9

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TABLE 6.2- 6C HOURLY AVERAGES AND STANDARD DEVIATIONS

TIME(HK)	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 _e																								
10M																								
MEAN	1.1	1.2	1.2	1.2	1.2	1.3	1.6	1.5	2.4	2.6	3.1	3.1	3.2	3.2	3.3	2.9	2.4	1.8	1.7	1.4	1.3	1.3	1.3	
SIGMA	1.0	1.1	1.0	1.1	1.2	1.1	1.2	1.1	1.5	1.2	1.3	1.3	1.4	1.5	1.6	1.5	1.4	1.2	1.1	1.1	1.0	1.0	1.1	
20M																								
MEAN	1.7	1.8	1.6	1.7	1.8	1.8	2.0	2.3	3.0	3.3	3.6	3.9	3.8	3.9	4.0	4.1	3.7	3.0	2.5	2.4	2.0	1.8	1.9	
SIGMA	1.4	1.5	1.2	1.4	1.4	1.5	1.6	1.5	2.1	1.7	2.0	1.8	1.8	2.0	2.1	2.0	1.8	1.6	1.4	1.5	1.4	1.4	1.5	
40M																								
MEAN	3.0	3.0	3.1	3.1	3.0	3.0	2.9	3.3	4.2	4.6	5.2	5.2	5.1	5.3	5.3	5.5	5.2	4.5	3.8	3.8	3.4	3.0	3.2	
SIGMA	1.7	1.5	1.5	1.6	1.7	1.8	2.2	2.0	2.7	2.5	2.7	2.5	2.4	2.6	2.8	2.7	2.5	2.0	1.6	1.8	1.6	1.7	1.7	
TEMPERA-																								
TUNE																								
MEAN	18.4	18.2	18.1	18.0	17.8	18.6	19.6	20.6	22.2	22.7	23.0	22.8	23.2	23.0	23.1	22.5	22.1	21.4	20.8	20.3	19.9	19.2	19.1	
SIGMA	3.1	3.2	3.3	3.4	3.2	3.3	2.9	3.1	3.9	4.1	4.4	4.6	4.9	4.7	4.8	4.6	4.4	3.9	3.6	3.3	3.0	2.8	3.0	
HUMIDITY																								
MEAN	81.7	82.0	82.3	82.5	82.2	80.6	77.7	72.5	70.3	69.3	67.6	68.7	67.6	70.0	68.2	70.0	74.3	75.1	76.2	78.4	78.1	80.1	81.5	
SIGMA	11.6	10.9	10.1	10.7	10.3	11.2	12.8	15.3	14.1	14.8	15.6	14.1	16.3	14.7	15.1	14.7	11.7	12.7	13.3	11.5	12.8	11.7	11.3	
LAPSE																								
RATE																								
MEAN	1.7	2.0	1.5	1.6	1.9	0.3	-1.2	-1.6	-2.1	-2.4	-2.4	-2.4	-2.4	-1.9	-1.9	-1.6	-1.1	-0.2	0.1	0.4	0.6	1.0		
SIGMA	2.8	3.7	3.1	3.5	3.4	1.4	1.5	1.3	1.0	1.0	1.1	1.1	1.5	1.8	1.0	1.1	0.9	1.8	1.7	2.4	2.6	2.7		
STABIL.																								
RATIO																								
MEAN	0.5	0.3	0.5	0.9	0.9	0.3	-0.5	-0.6	-0.6	-0.5	-0.4	-0.4	-0.3	-0.3	-0.3	-0.3	-0.3	-0.1	-0.1	0.2	0.1	0.5		
SIGMA	1.2	1.1	1.3	2.3	2.9	0.5	0.5	0.6	0.7	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.6	0.2	0.9	1.1	1.7		
RADIA-																								
TIUN																								
MEAN	-7.4	-6.5	-6.9	-6.4	-2.6	-0.1	19.5	30.4	43.2	49.3	53.8	51.4	51.9	45.6	41.9	26.9	16.1	7.7	-9.2	-8.9	-7.9	-7.6		
SIGMA	5.0	5.1	5.1	4.7	3.2	0.4	9.4	15.4	21.6	25.0	26.4	26.8	26.5	23.5	20.4	13.3	7.5	2.5	5.5	5.7	5.4	5.0		

TABLE 6.2- 6D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK
A	23																	
A-B	70	2	1	3	3	3	1	2	1	3	2	2	1	2	1			
B	80		7	14	8	3	3	13	3	7	5	4	3	1				1
B-C	14			9	7	2	4	6	9	9	9	3	1	4			2	2
C	72		1	4						6	3							
C-D	11	4	22	5				1	11	5	19	2		1	2			
D1	80								2	2	3			1	1			
D2	104	12	20	4	3	2	1	3	5	6	15	1	1	4	4		1	2
E	15	11	33	4	5	2	5	6	6	9	5	5	5	6	3	2		2
F	31	1	3	2				4	4	5	1	1	1	1				
G	210	4	15	18	6	12	7	11	13	16	19	20	13	23	15	3	4	1
LACK	10							5										5

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TABLE 6.2- 6E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

1GM	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL	
-0.4																				
0.5-0.9	106	1	4	9	7	6	4	7	5	8	8	8	8	16	10	1	2	4	112	
1.0-1.9		5	16	23	11	5	3	12	7	8	15	24	10	18	7	1	3	3	107	
2.0-2.9		6	35	20	11		3	13	16	9	24	10	1	1	1	1	5	5	161	
3.0-3.9		17	38	2	1		2	2	13	2	20	5		1	2		3	3	153	
4.0-4.9		2	11					7	7	8	13	5		1	2		1	1	106	
5.0-5.9		1	3					3	3	1	6	1		1	1		1	1	45	
6.0-6.9								4	3	1	4			3	1		1	1	17	
7.0-7.9								1		1					3				7	
8.0-8.9																			1	
9.0-9.9																			1	
10.0-																			0	
LACK		0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5	10	
TOTL	106	32	107	54	30	11	12	39	51	37	91	48	19	27	27	2	3	22	720	
20M																				
-0.4	78	1	1	4	6	5	2	5	4	5	8	4	3	5	11	2	3	0	78	
0.5-0.9		2	9	14	8	8	4	9	8	9	13	13	11	13	10	2	5	0	69	
1.0-1.9		5	22	19	18	3	1	20	8	2	17	21	8	4	10	2	5	138		
2.0-2.9		4	34	12	1		2	7	12	3	20	8	2	3	3		5	153		
3.0-3.9		10	34	3				3	8	3	17	7	2	3	1	2	2	113		
4.0-4.9			10					3	8	3	10	7		1	1	1	1	87		
5.0-5.9		2	4					3	4	2	11			1	3	1	1	32		
6.0-6.9								3			10			3	3	1	1	24		
7.0-7.9			1					3			11			1	1		1	24		
8.0-8.9											8	1		1	1		1	11		
9.0-9.9										1	1							1		
10.0-										2	2							3		
LACK		0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5	10	
TOTL	78	24	115	52	33	16	9	52	44	26	108	54	24	27	30	4	17	5	720	
40M																				
-0.4	16	2	6	4	1	2	2	3	1	1	1	2	2	4	2	4	1	0	16	
0.5-0.9		2	7	17	6	7	7	10	8	8	4	5	4	15	7	4	1	0	22	
1.0-1.9		2	17	14	11	1	4	10	10	13	25	6	13	6	10	3	8	89		
2.0-2.9		8	17	14	11	1	4	10	8	5	14	15	2	2	6	1	3	152		
3.0-3.9		1	29	6	2		2	13	8	1	15	8	3	2	2	1	3	121		
4.0-4.9		2	31	2	1		1	5	8	6	20	6	1	4	1	4	4	96		
5.0-5.9		6	24	1				6	3	4	11	2	1	1	1	1	1	59		
6.0-6.9		2	7					6	3	6	6			2	2		1	25		
7.0-7.9		1	5					2		4	7			1	1		1	18		
8.0-8.9									1	1	6			1	1		1	10		
9.0-9.9									5	5	5				4		0	14		
10.0-									0	0	0						0	5		
LACK		0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5	10	
TOTL	16	26	128	46	24	17	18	57	47	54	114	46	25	32	36	8	21	5	720	

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TABLE 6.2- 7A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SEC/DAY	NET RAD. CAL/SEC/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	19.2	68.1	11.0	191.4	-80.4	1.6	1.9	2.8
2	23.5	78.9	0.0	519.6	-63.0	1.4	1.5	3.1
3	23.8	82.5	0.5	373.8	-84.0	1.1	1.4	2.4
4	25.3	80.9	0.0	550.2	-48.6	1.3	1.5	3.6
5	24.4	80.7	0.0	595.8	-58.2	2.0	2.4	3.6
6	23.6	80.0	0.0	661.8	-117.6	1.2	1.3	2.4
7	25.6	78.8	0.0	601.2	-76.8	1.6	2.0	3.1
8	25.1	85.5	3.5	419.4	-71.4	1.3	1.7	2.6
9	25.1	84.1	0.0	584.4	-85.2	1.8	2.2	3.3
10	25.4	83.7	0.0	626.4	-78.0	1.9	2.1	2.9
11	24.3	85.7	1.0	487.6	-81.6	2.3	2.6	4.0
12	24.8	81.9	0.0	611.4	-90.6	2.4	3.0	4.4
13	23.6	83.9	0.0	467.1	-103.8	1.2	1.4	2.2
14	23.6	81.8	0.0	641.4	-98.4	1.8	2.1	3.0
15	23.4	83.0	0.0	**	-132.6	1.5	1.9	2.6
16	23.9	79.9	0.0	679.2	-125.4	1.3	1.4	2.1
17	23.6	82.5	0.0	673.8	-128.4	1.9	2.2	3.2
18	23.5	81.0	0.0	634.8	-105.0	1.7	1.9	3.0
19	23.9	79.6	0.0	608.4	-115.2	2.0	2.4	3.2
20	24.3	80.7	0.0	610.8	-93.6	2.7	3.3	4.4
21	24.1	85.7	0.0	451.2	-66.0	2.2	2.6	3.6
22	27.0	79.0	0.0	414.6	-66.0	1.5	2.0	3.0
23	27.1	79.8	0.0	440.4	-67.2	1.4	1.8	2.7
24	26.9	82.7	4.0	566.6	-67.8	1.5	1.8	2.7
25	27.6	78.4	0.0	586.8	-107.8	1.6	2.3	3.6
26	27.6	73.1	0.0	526.8	-131.4	1.7	2.4	3.6
27	26.1	75.3	0.0	522.0	-101.4	1.6	2.1	3.3
28	25.0	83.3	7.0	599.4	-94.8	1.4	1.7	2.5
29	26.4	74.9	0.0	587.4	-112.8	2.2	2.8	4.1
30	25.8	77.3	0.0	632.4	-132.0	2.3	2.9	4.4
31	25.7	80.3	0.0	634.8	-83.4	2.0	2.3	3.3
MONTH	24.8	80.8	27.0	553.0	-92.6	1.7	2.1	3.2
LACK	8	8	6	8	0	9	9	9

TABLE 6.2- 7B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	15.2	6.3	12.6	7.3	5.4	1.4	2.7	7.5	13.3	3.3	4.6	5.6	4.2	4.6	3.4	1.8	0.8
20M	12.8	4.5	14.4	7.3	5.6	1.0	2.3	11.8	9.8	4.1	4.3	6.8	3.7	5.2	4.1	1.5	1.0
40M	3.5	3.8	15.6	8.4	4.5	1.5	3.1	14.5	7.9	4.3	5.3	7.1	4.6	4.9	5.6	3.8	1.5

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TABLE 6.2-7C 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	1.0	0.9	0.6	0.6	0.8	0.9	1.5	1.8	2.0	2.2	2.4	2.7	3.0	3.2	3.3	2.8	2.4	2.1	1.7	1.5	1.1	1.1	1.1	1.1	1.0
SIGMA	0.8	0.9	0.6	0.8	0.6	0.8	0.8	0.8	0.7	0.9	0.8	0.9	1.1	1.0	1.3	1.3	1.1	1.1	1.0	1.0	0.8	0.9	0.9	0.9	0.9
H=20M																									
MEAN	1.5	1.3	1.1	1.3	1.1	1.2	1.7	2.2	2.3	2.5	2.7	3.0	3.3	3.6	3.7	3.3	2.8	2.5	2.1	2.0	1.5	1.5	1.5	1.6	1.4
SIGMA	1.1	1.2	0.9	1.1	0.9	1.1	1.0	1.0	1.0	1.1	0.9	1.0	1.3	1.2	1.5	1.3	1.3	1.3	1.3	1.2	1.0	1.1	1.1	1.1	1.1
H=40M																									
MEAN	2.8	2.6	2.4	2.6	2.4	2.1	2.4	2.8	2.9	3.2	3.5	3.8	4.3	4.7	4.9	4.4	3.9	3.6	3.2	2.9	2.6	2.6	2.8	2.8	2.7
SIGMA	1.2	1.5	1.2	1.2	1.2	1.3	1.2	1.3	1.2	1.3	1.2	1.4	1.6	1.7	2.0	1.9	1.6	1.6	1.6	1.6	1.6	1.3	1.3	1.2	1.2
TEMPERATURE																									
MEAN	23.1	22.7	22.4	22.3	22.2	23.2	24.6	25.6	26.3	26.8	27.1	26.9	26.9	26.9	26.6	26.3	25.9	25.3	24.8	24.5	24.2	24.0	23.8	23.4	23.4
SIGMA	1.6	1.5	1.5	1.5	1.5	1.5	1.7	1.9	2.2	2.5	2.6	2.5	2.5	2.3	2.2	2.3	2.0	1.8	1.7	1.7	1.6	1.4	1.4	1.4	1.4
HUMIDITY																									
MEAN	87.4	87.8	89.1	88.9	89.1	87.6	82.1	76.7	74.7	72.8	72.2	72.3	72.4	73.0	73.3	74.8	76.7	79.5	82.4	83.3	84.3	84.9	86.2	86.9	86.9
SIGMA	3.9	3.3	3.2	2.9	3.0	3.7	4.6	4.1	4.4	6.2	6.4	7.7	7.8	7.8	8.1	9.2	7.5	6.2	5.7	5.7	5.3	4.8	4.3	4.6	4.6
LAPSE RATE																									
MEAN	0.6	1.0	1.2	1.1	1.1	0.9	-2.1	-2.5	-3.0	-3.0	-3.3	-3.4	-3.5	-3.3	-2.9	-2.5	-1.9	-1.1	-0.5	-0.4	0.2	0.4	0.4	0.6	0.6
SIGMA	1.6	1.7	1.6	1.5	1.6	0.8	0.7	0.6	0.6	0.7	1.0	0.9	1.0	0.8	0.9	0.6	0.8	0.9	1.3	1.1	1.6	1.7	1.5	1.5	1.5
STABIL. RATIO																									
MEAN	-0.1	**	**	**	0.2	-0.5	-1.0	-0.9	-1.0	-0.6	-0.7	-0.5	-0.5	-0.4	-0.3	-0.5	-0.5	-0.3	-0.4	-0.3	-0.1	-0.0	-0.1	-0.1	
SIGMA	0.2	**	**	**	0.7	0.4	0.8	0.7	0.6	0.7	0.4	0.3	0.3	0.2	0.2	0.4	0.4	0.3	0.4	0.4	0.5	0.3	0.4	0.4	
RADIATION																									
MEAN	-6.3	-8.6	-7.6	-7.4	-3.8	0.0	27.9	40.6	54.4	62.1	67.0	68.9	69.2	62.6	49.2	34.4	18.6	-3.6	-9.6	-9.7	-8.8	-8.7	-8.4	-8.2	
SIGMA	3.3	3.0	3.2	3.3	2.9	0.0	7.1	12.4	13.0	17.3	17.6	18.6	16.8	15.8	15.4	9.3	7.3	3.2	3.5	3.2	3.2	3.0	3.2	2.8	

TABLE 6.2-7D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	MNW	N	LACK
A	38		1	4	14	6	2	3		2	1	1	2	2				
A-B	116	1	10	19	13	2	7	22	9	5	9	9	4	1	2	1	2	
B	97	2	18	11	7	2	6	16	19	4	6	6	3	1	1	1		
B-C	14		7					1	6									
C	43	2	17	1	1			4	16	1			1					
C-D	5		1						4									
D1	19	1	5	4			1	1	7									
D2	66	4	10	1	3		2	3	8	3	2	3	5	11	6	1	4	
E	19	8	3	1				6	6					1				
F	41	13	11	1				15	15	1								
G	277	18	17	18	11	1	5	9	12	21	26	26	23	36	32	15	7	
LACK	9									1								8

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TABLE 6.2-7E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	MNW	NM	NNW	N	LACK	TOTL	
-0.4	112																			0
0.5-0.9	5	3	5	6	1	3	5	4	4	11	4	11	13	18	15	10	4			0
1.0-1.9	13	17	16	19	8	9	11	12	9	23	23	25	16	15	9	3	2			118
2.0-2.9	18	36	25	14	1	7	28	27	4	5	5	5	2	1						207
3.0-3.9	10	26	8	1	1	11	31	14	1	1					1					175
4.0-4.9		9																		90
5.0-5.9																				23
6.0-6.9								8												8
7.0-7.9								2												2
8.0-8.9																				0
9.0-9.9																				0
10.0-																				0
LACK	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	8		8
TOTL	112	46	93	54	40	10	20	55	98	24	34	41	31	34	25	13	6	8		744
ZUM	94																			0
-0.4																				
0.5-0.9	3	3	3	2	1	3	2	3	3	6	4	4	2	9	20	7	2			94
1.0-1.9	7	21	9	22	5	4	13	9	11	14	14	22	15	20	9	3	5			74
2.0-2.9	7	27	27	15	1	6	24	19	12	8	8	23	9	9		1				189
3.0-3.9	10	40	13	1	1	4	28	16	1	3	3	3			1					188
4.0-4.9	6	10	2	1			18	13		2	2	1	1							117
5.0-5.9		4					1	4												54
6.0-6.9		1					1	5												9
7.0-7.9								3												7
8.0-8.9																				3
9.0-9.9																				0
10.0-																				0
LACK	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	8		8
TOTL	94	33	106	54	41	7	17	87	72	30	32	50	27	36	30	11	7	8		744
40M	26																			0
-0.4																				
0.5-0.9	1	1	3	1	1	3	1	1	2	1	2	3	1	1	4	3	2			26
1.0-1.9	4	12	8	5	3	5	4	2	4	6	4	2	10	16	7	5	4			26
2.0-2.9	6	19	11	20	6	5	10	9	13	10	10	16	15	13	20	11	4			97
3.0-3.9	4	25	25	6	1	7	20	21	7	15	15	23	5	6	8	8	1			190
4.0-4.9	8	36	13	1	1	1	30	12	4	6	6	6	3	1	1	1				183
5.0-5.9	4	15	2				19	7	1	1	1	1	1							123
6.0-6.9	1	6					12	6	1						1					50
7.0-7.9		1					3	1												27
8.0-8.9							6													5
9.0-9.9							6													6
10.0-							2													2
LACK	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	8		8
TOTL	26	28	115	62	33	11	23	107	58	32	39	52	34	36	41	28	11	8		744

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TABLE 6.2- 8A DAILY AVERAGES

DATE	AIR TEMP. C. DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SQCM/DAY	NET RAD. CAL/SQCM/DAY	WIND SPD (10) M/S		WIND SPD (20) M/S		WIND SPD (40) M/S	
						SPD	DIR	SPD	DIR	SPD	DIR
1	25.3	87.7	7.5	433.8	-35.8	4.7	5.7	4.8	6.7	4.7	7.7
2	29.4	72.5	0.0	617.4	-103.2	3.4	4.8	4.0	7.6	3.4	4.7
3	28.7	73.8	0.0	412.8	-98.4	2.5	3.4	2.5	3.4	2.5	3.4
4	28.8	72.8	0.0	526.8	-96.6	**	**	**	**	**	**
5	**	**	**	**	**	**	**	**	**	**	**
6	**	**	**	**	-125.9	**	**	**	**	**	**
7	26.3	78.5	0.0	483.0	-111.0	1.2	1.7	1.7	2.9	1.7	2.9
8	24.7	80.9	2.0	403.8	-81.0	0.8	1.0	1.0	1.7	0.8	1.7
9	24.1	84.2	0.0	434.4	-48.0	2.6	3.3	3.3	4.3	2.6	4.3
10	24.5	81.2	0.0	453.6	-72.6	1.5	1.7	1.7	2.4	1.5	2.4
11	26.9	77.0	0.0	555.6	-87.0	1.3	1.5	1.5	2.4	1.3	2.4
12	26.8	75.6	0.0	560.4	-112.8	1.3	1.5	1.5	2.3	1.3	2.3
13	26.5	77.1	0.0	563.4	-114.6	1.4	1.8	1.8	2.6	1.4	2.6
14	28.3	68.3	0.0	562.6	-116.4	1.9	2.7	2.7	4.0	1.9	4.0
15	28.2	70.4	0.5	568.2	-103.8	1.1	1.5	1.5	2.3	1.1	2.3
16	26.4	79.8	2.5	429.0	-77.4	1.3	1.7	1.7	2.6	1.3	2.6
17	26.0	80.2	9.0	339.6	-65.4	1.9	2.7	2.7	4.0	1.9	4.0
18	23.1	79.5	0.0	319.8	-33.6	3.1	3.9	3.9	5.5	3.1	5.5
19	25.3	77.9	0.0	445.2	-89.4	1.3	1.6	1.6	2.4	1.3	2.4
20	27.8	73.8	0.0	461.4	-106.2	2.1	3.1	3.1	4.5	2.1	4.5
21	29.6	68.8	0.0	547.2	-112.2	2.1	3.0	3.0	4.4	2.1	4.4
22	27.1	69.2	0.0	561.0	-142.8	1.5	1.9	1.9	2.8	1.5	2.8
23	26.9	61.0	0.0	561.4	-156.6	1.7	2.3	2.3	3.5	1.7	3.5
24	25.6	63.0	0.0	360.4	-154.7	1.3	1.7	1.7	2.8	1.3	2.8
25	22.2	68.2	0.0	590.4	-164.4	1.8	2.2	2.2	3.0	1.8	3.0
26	**	**	**	**	**	**	**	**	**	**	**
27	**	**	**	**	**	**	**	**	**	**	**
28	**	**	**	**	**	**	**	**	**	**	**
29	**	**	**	**	-108.1	**	**	**	**	**	**
30	24.9	78.3	0.0	347.4	-105.0	1.9	2.4	2.4	3.5	1.9	3.5
31	23.8	79.1	0.0	453.6	-76.2	3.2	3.8	3.8	5.0	3.2	5.0
MONTH	26.1	75.4	21.5	481.5	-99.6	2.0	2.6	2.6	3.8	2.0	3.8
LACK	117	119	112	62	55	117	117	117	117	117	117

TABLE 6.2- 8B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	13.4	8.1	8.9	7.4	3.2	2.4	2.9	4.5	6.6	4.5	14.0	6.2	5.3	5.4	5.0	1.6	0.6
20M	9.1	3.8	12.8	6.9	4.2	2.6	2.2	7.0	4.2	4.3	15.0	6.4	7.2	6.7	5.3	1.3	1.1
40M	2.9	3.7	13.3	7.3	3.2	1.9	2.9	8.8	4.5	8.0	13.4	5.1	7.0	7.8	6.2	1.9	2.1

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TABLE 6.2- 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	1.0	1.0	1.1	1.1	1.4	1.7	2.2	2.6	2.8	3.0	3.3	3.5	3.6	3.2	2.8	2.5	1.8	1.7	1.4	1.4	1.4	1.3
SIGMA	1.0	0.9	1.0	1.0	0.9	1.2	1.0	1.3	1.3	1.3	1.3	1.2	1.2	1.1	1.4	1.5	1.6	1.6	1.4	1.4	1.3	1.3	1.4	1.2
20M																								
MEAN	1.9	1.7	1.6	1.5	1.6	1.6	1.7	2.2	2.8	3.1	3.4	3.7	4.0	4.2	4.4	3.9	3.5	3.3	2.4	2.4	1.9	2.0	2.0	1.8
SIGMA	1.3	1.2	1.3	1.2	1.1	1.6	1.4	1.7	1.9	1.7	1.8	1.7	1.6	1.6	1.9	2.0	2.0	2.1	1.9	1.9	1.8	1.8	1.9	1.6
40M																								
MEAN	3.2	3.0	2.7	2.9	2.9	2.6	2.5	2.9	3.7	4.0	4.4	4.9	5.2	5.6	5.8	5.2	5.0	4.6	3.5	3.7	3.1	3.2	3.2	2.9
SIGMA	1.7	1.4	1.6	1.5	1.4	2.0	1.8	2.3	2.6	2.3	2.4	2.3	2.2	2.2	2.7	2.6	2.7	2.6	2.5	2.3	2.2	2.2	2.4	2.1
TEMPERATURE																								
MEAN	24.0	23.6	23.3	23.0	22.9	23.5	25.0	26.4	27.8	28.7	29.1	29.3	29.1	29.3	29.2	28.6	27.9	27.0	26.2	25.8	25.4	25.0	24.7	24.3
SIGMA	1.7	1.9	2.1	2.0	2.1	2.1	2.2	2.0	2.5	2.8	3.0	3.0	3.0	3.0	3.2	3.1	3.0	2.6	2.3	2.0	1.8	1.6	1.6	1.5
HUMIDITY																								
MEAN	83.8	84.5	85.2	85.1	85.6	85.0	80.2	74.5	68.4	64.7	63.8	63.2	63.8	64.0	65.4	66.5	68.7	73.6	75.0	78.0	78.8	79.9	81.4	83.2
SIGMA	6.2	4.0	4.5	4.3	3.7	4.5	7.3	9.7	11.8	11.6	11.5	10.9	10.9	10.5	12.0	11.7	11.2	8.9	7.8	7.0	8.0	7.4	6.5	6.7
LAPSE RATE																								
MEAN	0.6	1.0	1.5	1.1	1.1	-0.3	-1.8	-2.2	-3.0	-3.1	-3.4	-3.5	-3.6	-3.4	-2.9	-2.4	-1.5	-0.7	-0.5	0.1	0.1	0.5	0.5	0.4
SIGMA	1.4	2.1	2.4	2.0	2.4	1.5	0.5	0.6	0.7	0.8	0.9	1.0	0.9	0.9	0.8	0.6	0.7	1.0	0.9	1.6	1.6	1.3	1.2	1.4
STABIL. RATIO																								
MEAN	0.1	0.1	0.4	0.3	0.5	**	-0.8	-0.6	-1.0	-0.8	-0.7	-0.6	-0.5	-0.4	-0.4	-0.5	-0.4	-0.3	-0.2	0.3	-0.2	0.0	0.1	0.3
SIGMA	0.4	1.1	1.3	1.0	2.0	**	0.6	0.7	1.0	0.6	0.6	0.5	0.5	0.3	0.3	0.5	0.5	0.4	0.3	1.2	0.4	0.5	0.6	1.2
RADIATION																								
MEAN	-8.2	-8.0	-6.9	-7.6	-7.0	-0.3	21.2	32.9	45.7	53.4	62.0	63.6	62.3	53.1	46.2	28.4	14.3	-6.6	-10.3	-9.3	-9.2	-8.7	-8.8	-8.4
SIGMA	3.0	3.2	3.5	3.5	3.1	0.8	6.7	10.1	15.1	16.6	16.6	14.8	15.0	14.6	7.3	9.6	6.0	4.0	3.3	3.3	3.1	3.2	3.0	3.3

TABLE 6.2- 8U FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	MNW	NW	NNW	N	LACK
A	28	1		7	2	5	4	1		2	1	1	2	2				
A-B	71	1	1	12	7	5	8	12	3		4	7	2	4	1			4
B	66		12	9	3	6	2	10	7	3	19	5	4	1	3	2		
B-C	17		3					1	6		4	3						
C	29	3	5	1					3	3	13	1						
C-D	18	4	3						3	2	6							
D1	30	6	7	2		1			2	3	3	1		3				
D2	63	19	7	3	1				1	3	12	2	4	1	6	1	.1	
E	25	3	11						1	1	6		1	1				
F	20	5	1	3					1	1	1		1	1				
G	242	12	8	13	8	3	6	4	18	16	15	22	32	39	31	10	4	1
LACK	117																	117

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TABLE 6.2-8E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	MNW	NW	NNW	N	LACK	TOTL	
-0.4	84																			
0.5-0.9		3	1	9	6	4	2	2	5	7	9	12	17	17	13	5	2	0	84	
1.0-1.9		11	7	16	6	8	6	12	12	10	13	14	15	15	17	3	2	1	114	
2.0-2.9		9	12	16	6	3	13	6	6	2	14	6	1	2	1	2			168	
3.0-3.9		9	24	4	4	7	7	13	13	2	24	7							99	
4.0-4.9		9	10	1				2	2	3	20								89	
5.0-5.9		6						3	3	4	7								45	
6.0-6.9		3	2					1	1		1								20	
7.0-7.9		1																	7	
8.0-8.9																			1	
9.0-9.9																			0	
10.0-																			0	
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTL	84	51	56	46	20	15	18	28	41	28	86	39	33	34	31	10	4	117	117	
																		118	744	
20M																				
-0.4	57																			
0.5-0.9		5	2	16	12	5	1		2	2	3	5	10	8	12	3	2	0	57	
1.0-1.9		6	6	15	7	7	10	7	7	10	16	13	22	27	18	4	4		62	
2.0-2.9		6	15	15	7	3	5	10	3	6	7	7	11	6	3		1		185	
3.0-3.9		2	11	8	2	1	1	19	5	3	11	7	2	1		1			106	
4.0-4.9		3	24	4	2			5	4	4	18	2							73	
5.0-5.9		4	13	4				4	4	1	21	6							58	
6.0-6.9		1	4					1	1	2	10								49	
7.0-7.9		2	5					1	1	1	5								18	
8.0-8.9		1								2	1								13	
9.0-9.9											3								6	
10.0-																			0	
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTL	57	24	60	43	26	16	14	44	26	27	94	40	45	42	33	8	7	117	117	
																		118	744	
40M																				
-0.4	18																			
0.5-0.9		1	2	5	1	1	1	2	2	1	1	1	4	1					18	
1.0-1.9		2	9	15	6	3	3	9	1	5	7	7	14	12	10	1	2		20	
2.0-2.9		3	9	16	4	2	4	11	6	9	11	9	13	26	15	3	4		96	
3.0-3.9		4	11	16	4		1	12	4	9	7	5	8	8	11	3	5		150	
4.0-4.9		3	12	5				4	4	3	8	2	2	2	2		2		111	
5.0-5.9		2	10	3				1	1	1	11	3	1	1	1	1			61	
6.0-6.9		2	21	6				1	2	3	11	1	1						51	
7.0-7.9		2	9	6				1	3	3	17	1							43	
8.0-8.9		2	6	3				1	5	5	8	1							34	
9.0-9.9		2	3					4	7	4	3								21	
10.0-		2							1	1	1								12	
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	
TOTL	18	23	83	46	20	12	18	55	28	50	84	32	44	49	39	12	13	117	117	
																		118	744	

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TABLE 6.2- 9A DAILY AVERAGES

DATE	AIR TEMP. C. DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD.		NET RAD.		WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
				CAL/SQCM	RAD. CAL/SQCM/DAY	NET CAL/SQCM/DAY	RAD. CAL/SQCM/DAY			
1	21.8	76.0	5.0	210.0	-76.8	4.7	5.9	7.7		
2	22.4	64.3	0.0	550.2	-170.4	4.0	4.9	6.3		
3	22.1	79.5	5.0	288.0	-45.0	1.4	1.8	2.7		
4	21.8	85.8	15.0	151.8	-36.4	2.6	3.4	4.7		
5	19.5	84.7	13.0	59.6	-34.8	2.9	3.7	4.9		
6	19.3	75.4	0.0	658.4	-139.8	1.4	1.7	2.7		
7	20.9	62.7	0.0	393.0	-84.6	2.7	3.5	4.9		
8	20.1	63.8	0.0	518.4	-141.6	1.5	2.0	3.0		
9	21.4	70.6	0.0	479.4	-110.4	1.6	2.2	3.1		
10	26.4	71.9	0.0	415.2	-92.4	1.8	2.7	4.0		
11	21.3	79.8	14.0	128.4	-60.0	3.9	5.0	6.6		
12	20.1	67.2	0.5	100.2	-49.8	2.7	3.6	5.1		
13	20.2	78.4	2.0	203.4	-70.2	3.8	4.7	6.1		
14	21.2	71.3	0.0	292.8	-65.4	4.0	4.9	6.3		
15	21.8	75.5	0.0	384.6	-29.4	4.0	5.0	6.6		
16	21.3	89.9	5.5	121.8	-40.8	3.5	4.4	5.8		
17	22.9	66.6	0.0	426.6	-103.2	1.7	2.5	3.5		
18	21.7	65.8	0.0	495.6	-159.0	1.5	2.0	3.1		
19	23.0	77.9	0.0	249.1	-90.6	1.9	2.4	3.3		
20	22.9	83.4	0.0	210.0	-99.6	1.6	2.0	2.8		
21	21.3	81.8	3.0	162.0	-53.4	2.3	2.9	4.0		
22	20.9	70.5	0.0	448.6	-120.0	1.8	2.5	3.6		
23	20.2	79.3	0.0	135.0	-61.8	1.1	1.5	2.5		
24	19.7	79.7	0.0	225.0	-94.6	0.9	1.1	2.2		
25	20.2	78.1	0.0	408.0	-118.8	1.1	1.4	2.4		
26	20.6	76.6	0.0	268.0	-147.0	1.0	1.4	2.4		
27	18.8	65.0	0.0	305.4	-130.8	1.3	1.6	3.1		
28	17.5	75.2	1.0	127.6	-68.4	0.8	1.0	2.4		
29	16.8	90.1	3.0	70.2	-27.6	0.6	0.9	1.7		
30	19.6	82.4	10.0	166.2	-69.6	2.6	3.4	4.8		
MUNTH	20.9	75.6	77.0	283.3	-86.6	2.2	2.9	4.1		
LACK	2	2	0	2	0	2	2	2		

TABLE 6.2- 9B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNN	NW	NNW	N
10M	9.6	20.1	23.4	6.8	3.6	2.1	1.8	1.1	1.3	1.0	1.4	1.7	3.3	8.1	7.9	4.0	2.8
20M	5.6	16.7	27.2	6.1	4.5	2.2	1.9	1.8	1.3	0.7	1.3	1.3	4.9	8.8	8.1	4.9	2.9
40M	1.7	17.3	27.7	6.5	4.6	1.8	2.2	2.2	1.0	0.4	1.6	1.4	3.6	7.9	9.9	5.7	4.2

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TABLE 6.2- 9C HOURLY AVERAGES AND STANDARD DEVIATIONS

TIME(HR)	1	2	3	4	5	6	7	6	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
WIND SPD																								
H=																								
10M																								
MEAN	1.9	1.7	1.6	2.0	1.8	1.8	2.1	2.2	2.4	2.8	3.0	2.9	2.9	3.0	2.9	2.7	2.4	2.4	2.1	2.0	1.8	1.6	1.6	1.6
SIGMA	1.4	1.3	1.5	1.6	1.4	1.5	1.6	1.5	1.4	1.4	1.5	1.3	1.3	1.3	1.4	1.3	1.4	1.5	1.6	1.6	1.3	1.3	1.3	1.3
20M																								
MEAN	2.5	2.3	2.5	2.8	2.5	2.5	2.7	2.7	2.9	3.4	3.6	3.5	3.6	3.7	3.7	3.4	3.2	3.1	2.9	2.7	2.4	2.3	2.2	2.1
SIGMA	1.7	1.5	1.7	2.0	1.6	1.8	1.9	1.9	1.7	1.7	1.9	1.7	1.7	1.7	1.8	1.6	1.7	1.8	1.9	1.8	1.6	1.6	1.6	1.6
40M																								
MEAN	3.7	3.5	3.9	4.2	3.8	3.8	3.9	3.7	3.8	4.4	4.6	4.6	4.7	4.8	4.8	4.6	4.4	4.3	4.2	4.0	3.7	3.6	3.5	3.3
SIGMA	2.0	1.7	1.9	2.1	1.8	2.1	2.2	2.3	2.2	2.3	2.4	2.3	2.1	2.2	2.3	2.0	2.1	2.1	2.2	2.2	1.8	1.7	1.7	1.8
TEMPERATURE																								
MEAN	19.6	19.2	19.1	19.0	18.9	18.9	19.7	20.7	21.6	22.3	22.8	23.1	23.2	23.2	22.8	22.7	22.1	21.6	21.2	20.8	20.4	20.1	19.8	19.5
SIGMA	2.2	2.3	2.2	2.2	2.2	2.1	1.9	1.9	2.0	2.2	2.7	2.6	2.7	2.7	2.5	2.7	2.4	2.1	2.0	2.1	2.0	2.1	2.2	2.4
HUMIDITY																								
MEAN	80.1	81.5	82.2	81.8	81.9	82.4	80.1	77.3	73.8	71.0	69.0	67.9	67.6	67.3	69.0	69.2	71.6	73.3	75.8	76.2	77.7	78.9	79.0	80.4
SIGMA	8.9	7.9	7.8	6.8	7.3	7.1	6.7	10.2	11.1	12.7	12.5	12.4	12.6	11.6	12.3	11.6	10.4	10.5	12.1	10.2	10.0	9.9	10.5	10.5
LAPSE RATE																								
MEAN	0.3	0.6	0.8	1.0	0.8	0.7	-0.9	-1.5	-1.9	-2.2	-2.3	-2.6	-2.3	-2.3	-2.0	-1.7	-0.8	-0.5	0.0	0.1	0.5	0.2	0.4	0.6
SIGMA	2.2	2.6	2.8	3.0	2.6	2.8	1.0	0.8	0.8	1.0	0.9	0.8	0.9	0.8	0.7	0.7	1.9	1.4	1.9	2.1	2.6	1.8	1.8	2.3
STABIL. RATIO																								
MEAN	-0.1	0.7	-0.1	0.7	0.3	-0.1	-0.3	-0.4	-0.7	-0.5	-0.5	-0.5	-0.4	-0.4	-0.3	0.4	0.3	0.0	-0.2	-0.2	0.6	0.4	0.1	0.6
SIGMA	0.2	2.4	0.2	2.2	1.5	0.2	0.5	0.5	0.8	0.6	0.5	0.5	0.4	0.3	0.3	0.4	0.3	0.8	0.3	0.2	2.2	1.8	0.7	2.2
RADIATION																								
MEAN	-5.8	-6.2	-6.2	-5.7	-6.1	-2.2	-0.0	19.7	29.7	37.9	40.5	46.5	36.9	32.9	23.8	15.4	-2.7	-8.2	-8.2	-7.4	-7.2	-7.2	-6.6	-6.6
SIGMA	3.3	3.9	3.8	3.6	4.0	2.4	0.1	11.9	16.5	23.0	26.6	23.1	22.8	19.8	15.1	9.2	3.7	5.0	4.7	4.5	4.2	3.8	3.6	3.6

TABLE 6.2- 9D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNN	NW	NNW	N	LACK		
A	15					3	3	2	1			1	1	3						
A-B	40	1	1	8	6	1	6	2		1	4	1	2	4	1	2				
B	61	1	5	19	7	6	2	4	1	1	1	1	1	2	6	2	2			
B-C	10	1	5						2	1	1									
C	56	12	35	4		1			2		1			1						
C-D	13	3	9	1																
D1	73	21	30	2	1	2			1	1	1	2	9	14	10	4	3			
D2	147	52	47	1	1															
E	47	27	14																	
F	42	12	18	4					1	1	1	1	1	2	1	1	2			
G	214	17	3	10	6	2	3	1	5	6	3	6	17	39	50	29	13			
LACK	2																			

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TABLE 6.2- 9E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SM	WSW	W	WNW	NW	NNW	N	LACK	TOTL	
-0.4	69																			
0.5-0.9		2	3	2	2	3	2		1	1	1	3	10	21	38	21	9	0	69	
1.0-1.9		17	4	19	18	7	6	4	1	4	3	6	11	29	17	8	5		119	
2.0-2.9		35	43	18	6	5	4	4	2	2	2	2	3	7	2		6		159	
3.0-3.9		46	61	9			1		5	2	4	1		1					139	
4.0-4.9		32	42	1															130	
5.0-5.9		8	14																75	
6.0-6.9		3	1																22	
7.0-7.9																			4	
8.0-8.9																			1	
9.0-9.9																			0	
10.0-																			0	
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
TOTL	69	144	168	49	26	15	13	8	9	7	10	12	24	58	57	29	20	2	720	
20M																				
-0.4	40																			
0.5-0.9		1	3			2	1	2		2		2	4	9	25	18	2	0	40	
1.0-1.9		6	6	5	13	7	8	4	3	2		2	18	31	29	15	11		67	
2.0-2.9		21	19	13	15	5	5	2		1	3	5	11	15	3	2	4		160	
3.0-3.9		22	45	15	4	2		5	3	1	1	1	2	6	1		4		124	
4.0-4.9		38	61	8				5	3	1	4	1		2			4		111	
5.0-5.9		19	45	3					3	1	4	1		2					118	
6.0-6.9		8	9							1	1								69	
7.0-7.9		2	6																17	
8.0-8.9		2	1																8	
9.0-9.9		1																	3	
10.0-																			1	
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
TOTL	40	120	195	44	32	16	14	13	9	5	9	9	35	63	58	35	21	2	720	
40M																				
-0.4	12																			
0.5-0.9		6	5	1	3	5	3	2		1		1	3	1	2	3		0	12	
1.0-1.9		10	9	4	13	5	9	4	1	1		1	6	7	17	7	10		12	
2.0-2.9		15	18	6	12	1	3	2	2	1	1	3	9	30	29	15	12		73	
3.0-3.9		18	32	17	5	2		2	2	4	4	4	7	12	16	12	4		155	
4.0-4.9		29	44	10				6	2	1	1	1	1	5	5	3	4		118	
5.0-5.9		23	49	3				2	1		3	1		1					102	
6.0-6.9		11	29	5					1	1	2			1	2	1			91	
7.0-7.9																			82	
8.0-8.9		3	5																48	
9.0-9.9		2	3																12	
10.0-																			8	
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	
TOTL	12	124	159	47	33	13	16	16	7	3	13	10	26	57	71	41	30	2	720	

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TABLE 6.2-10A DAILY AVERAGES

DATE	AIR TEMP. C. DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SQCM/DAY	NET RAD. CAL/SQCM/DAY	WIND SPD(10) M/S		WIND SPD(20) M/S		WIND SPD(40) M/S
						SPD(10)	DIR	SPD(20)	DIR	
1	20.1	72.9	0.0	433.8	-158.4	3.6		4.5		6.1
2	18.2	73.6	0.0	451.8	-231.6	2.3		2.9		4.4
3	17.3	74.9	0.0	447.6	-215.4	1.7		2.4		3.7
4	19.0	72.8	0.0	406.2	-90.6	1.3		1.7		2.9
5	14.8	82.0	13.0	94.6	-62.4	1.4		2.2		3.5
6	14.5	84.9	15.0	80.4	-102.6	1.4		2.3		3.9
7	15.3	62.8	0.0	354.6	-119.4	2.5		3.3		4.8
8	14.0	62.7	0.0	418.2	-231.6	2.1		2.7		4.2
9	16.3	71.9	0.0	346.2	-89.4	2.2		3.0		4.5
10	18.5	80.8	9.5	220.2	-105.6	1.8		2.4		3.6
11	17.3	76.4	0.0	137.4	-63.6	2.0		2.9		4.1
12	17.2	73.2	0.0	310.2	-132.6	0.9		1.3		2.3
13	15.0	52.5	0.0	273.6	-159.0	1.7		2.2		4.6
14	11.2	59.8	0.0	419.4	-246.6	1.4		2.1		3.1
15	13.0	77.5	0.5	188.4	-103.8	1.4		1.9		3.3
16	17.1	63.4	5.0	342.8	-159.0	1.8		2.5		4.6
17	14.4	54.1	0.0	410.4	-252.6	1.4		2.0		3.8
18	12.9	71.1	0.0	398.9	-173.4	0.9		1.4		2.6
19	15.6	68.1	5.5	88.6	-43.8	1.4		2.0		3.0
20	17.1	87.0	27.5	187.2	-86.2	2.0		2.6		3.7
21	14.5	73.4	11.5	237.0	-174.6	1.2		1.9		3.5
22	11.9	65.2	0.0	390.6	-232.4	1.1		1.6		2.7
23	13.4	78.2	0.0	316.6	-137.4	1.0		1.5		2.5
24	15.2	80.9	0.0	258.6	-103.2	1.0		1.8		2.7
25	15.7	80.0	0.0	204.6	-82.8	1.0		1.8		2.8
26	16.0	79.0	0.0	241.6	-75.0	1.1		1.5		2.9
27	17.0	85.1	1.0	102.0	-46.8	1.4		1.9		2.9
28	14.7	87.8	13.5	48.6	-24.0	4.5		5.7		7.7
29	13.4	89.8	18.5	64.2	-39.0	1.5		2.4		3.6
30	12.7	67.1	0.0	228.0	-145.2	1.2		1.9		2.9
31	12.7	69.9	0.0	228.0	-187.1	2.0		2.9		4.4
MONTH	15.4	74.2	120.5	269.5	-131.6	1.7		2.4		3.7
LACK	3	3	0	2	1	3		3		3

TABLE 6.2-10B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N
10M	13.2	15.7	14.6	3.2	1.5	2.2	1.2	0.7	0.5	0.4	1.2	1.9	2.2	8.2	15.5	9.0	8.8
20M	5.5	13.6	16.2	4.3	1.3	2.3	1.2	0.9	0.7	0.5	1.1	1.6	3.5	8.5	17.9	9.7	10.9
40M	1.3	16.1	15.8	5.4	1.2	2.2	1.6	1.2	0.4	0.9	0.9	1.5	1.9	8.5	15.4	12.7	13.0

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TABLE 6.2-10C 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*																								
1GM																								
MEAN	1.0	0.5	0.9	1.1	1.4	1.3	1.5	1.9	2.3	2.5	2.6	2.6	2.7	2.5	2.3	2.3	1.9	1.8	1.4	1.2	1.3	1.1	1.0	0.9
SIGMA	0.8	0.9	0.6	1.0	1.1	1.2	1.3	1.3	1.6	1.3	1.4	1.2	1.1	1.2	1.3	1.4	1.5	1.5	1.2	1.0	0.9	0.8	0.9	0.7
2GM																								
MEAN	1.5	1.5	1.5	2.0	2.2	2.2	2.1	2.4	2.8	3.2	3.2	3.2	3.3	3.2	3.0	3.0	2.7	2.6	2.2	1.9	1.9	1.7	1.6	1.7
SIGMA	1.1	1.1	0.9	1.2	1.3	1.4	1.6	1.7	2.0	1.5	1.6	1.4	1.3	1.5	1.5	1.7	1.7	1.8	1.4	1.2	1.1	0.9	1.1	1.0
4GM																								
MEAN	3.1	3.3	3.3	3.7	4.0	3.8	3.6	3.6	4.0	4.2	4.3	4.1	4.3	4.3	4.0	4.1	4.0	3.8	3.3	3.5	3.3	3.3	3.3	3.3
SIGMA	1.4	1.5	1.2	1.3	1.5	1.4	1.9	2.2	2.6	2.0	2.0	1.7	1.6	1.8	1.7	2.1	2.1	2.1	1.8	1.4	1.4	1.4	1.3	1.0
TEMPERATURE																								
MEAN	13.2	12.5	12.5	12.4	13.2	12.4	13.2	15.3	16.8	17.7	18.3	18.7	18.7	18.6	18.4	17.8	16.9	16.3	15.7	15.0	14.5	14.0	13.6	13.2
SIGMA	3.2	3.3	3.2	3.1	3.5	3.5	3.2	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.6	2.4	2.4	2.5	2.6	2.7	2.7	3.0	3.0	3.1
HUMIDITY																								
MEAN	60.8	61.7	62.8	62.8	61.8	79.6	74.3	66.7	65.3	63.2	62.0	62.6	63.2	65.2	66.9	71.6	73.4	76.0	77.9	78.4	79.3	80.0	79.9	79.9
SIGMA	10.4	9.8	9.6	10.0	10.0	11.6	14.0	15.6	15.6	16.8	15.4	15.4	15.1	15.0	13.8	13.3	13.1	11.4	11.1	11.2	11.7	12.4	11.7	11.7
LAPSE RATE																								
MEAN	2.5	3.3	3.3	3.9	3.1	2.5	0.8	-1.0	-1.6	-2.1	-2.2	-2.4	-2.3	-2.1	-1.6	-0.8	0.6	1.2	1.7	2.0	2.3	2.0	2.3	2.7
SIGMA	2.6	3.4	3.5	3.7	3.5	3.1	2.5	1.4	0.7	0.9	0.7	0.6	0.8	0.8	0.7	1.0	2.2	2.7	3.2	3.1	3.2	2.8	2.7	2.7
STABIL. RATIO																								
MEAN	1.9	1.5	**	1.0	1.0	0.5	0.1	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.4	0.4	0.1	0.1	0.2	0.0	1.1	0.7	1.1	1.5
SIGMA	2.9	2.0	**	1.7	1.9	1.2	0.8	1.0	0.6	0.4	0.4	0.5	0.3	0.4	0.4	0.4	0.1	0.7	1.2	0.6	2.0	1.2	2.1	2.4
RADIATION																								
MEAN	-8.5	-8.4	-8.8	-7.9	-7.7	-6.4	-0.5	20.5	29.7	36.2	42.3	43.4	40.5	26.3	19.0	9.2	-10.7	-11.7	-10.8	-10.5	-10.3	-9.9	-9.8	-9.8
SIGMA	6.3	6.2	6.2	6.1	6.0	5.3	1.5	11.5	16.9	19.9	22.1	20.2	21.3	16.4	10.9	5.4	5.8	6.5	6.2	6.1	5.8	5.9	6.1	6.0

TABLE 6.2-10D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	MNW	NW	NNW	N	LACK
A	12				2	2	1	1							4	1	1	
A-B	58	3	9	6	2	6	6	1	1		1	2	2	7	4	7	2	
B	63	7	15	4	3	1	2	4			1		2	5	6	11	2	
B-C	21	8	8	2				2	2					1				
C	37	9	18	4		1		1	1		1				1			
C-D	4	2	2															
D1	82	23	26	5	1	1	1	1	1	1	1	3	2	2	7	4	6	
D2	86	22	18				1		1	1	1		3	5	17	7	11	
E	11	6	4															
F	42	19	4	2					1	1	1	1	1	1	4	1	9	
G	325	20	8	3	4	5	1	2	4	2	8	10	11	52	104	51	40	
LACK	3																	

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TABLE 6-2-10E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	MNW	N	LACK	TOTL	
-0.4	98																			
0.5-0.9		5	3	2	4	6	6	1	2	4	11	33	6	33	64	26	16	0	98	
1.0-1.9		26	8	4	5	7	3	1	1	2	3	9	9	27	42	29	34		183	
2.0-2.9		39	33	11	2	3	6	3	1	1	3	1	1	7	11	11	14		201	
3.0-3.9		28	37	7					2					2		1			136	
4.0-4.9		13	14																78	
5.0-5.9		3	8																27	
6.0-6.9		2	5																11	
7.0-7.9																			7	
8.0-8.9																			0	
9.0-9.9																			0	
10.0-																			0	
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTL	98	116	108	24	11	16	9	5	4	3	9	14	16	61	115	67	65	3	744	
20M																				
-0.4	41																			
0.5-0.9		1	3	1	1	1	2	1	1	2	2	4	3	4	42	14	5	0	41	
1.0-1.9		9	6	3	5	13	2	1	1	3	8	12	12	25	75	34	24		81	
2.0-2.9		22	23	9	3	3	7	5	1	2	1	11	11	27	11	14	38		226	
3.0-3.9		42	22	12	2	1	1	1	2	1	1	2	2	2	3	9	13		176	
4.0-4.9		13	38	6	1				1			1			2	1			110	
5.0-5.9		11	13	1										1	2	1			64	
6.0-6.9		2	4																25	
7.0-7.9		1	10																11	
8.0-8.9																			1	
9.0-9.9																			0	
10.0-																			0	
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTL	41	101	120	32	10	17	9	7	5	4	8	12	26	63	133	72	81	3	744	
40M																				
-0.4	10																			
0.5-0.9		1	2	1	2	5	1	1	1	3	2	4	1	10	4	1	1	0	10	
1.0-1.9		3	2	2	6	10	6	1	1	2	1	7	7	26	32	26	22		60	
2.0-2.9		25	17	10	1	1	5	4	1	1	1	6	6	21	46	26	37		179	
3.0-3.9		33	17	7				1	1	1	1			5	14	16	18		197	
4.0-4.9		26	34	10				1	1	1	2			1	4	10	6		113	
5.0-5.9		11	16	3										4	4	5	1		95	
6.0-6.9		7	4	1										2	2	2			40	
7.0-7.9		2	3																17	
8.0-8.9		1	7																6	
9.0-9.9			4																8	
10.0-																			4	
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTL	10	119	117	40	9	16	12	9	3	7	7	11	14	63	114	94	96	3	744	

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TABLE 6.2-11A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SCCM/DAY	NET RAD. SCCM/DAY	WIND		
						SPD(10) M/S	SPD(20) M/S	SPD(40) M/S
1	14.6	73.5	0.0	326.4	-163.2	2.3	3.0	4.4
2	13.3	65.0	0.5	264.6	-168.6	2.3	3.1	4.5
3	11.1	57.0	0.0	306.6	-207.0	1.7	2.4	3.8
4	10.0	54.6	0.0	349.6	-258.0	1.9	2.7	4.5
5	10.6	73.8	0.0	319.2	-192.0	1.5	2.0	3.6
6	12.4	72.0	0.0	312.6	-156.6	1.3	1.9	3.6
7	13.2	73.4	0.0	257.4	-87.6	1.0	1.5	3.0
8	14.4	63.6	0.0	281.4	-142.8	2.6	3.5	4.9
9	12.7	55.2	0.0	268.8	-231.0	1.9	2.7	4.7
10	9.1	60.3	0.0	262.8	-174.6	1.3	1.9	2.9
11	11.5	68.4	0.0	171.0	-106.8	0.9	1.5	2.8
12	11.2	60.0	0.0	183.0	-124.2	0.8	1.4	2.7
13	10.2	69.0	27.5	44.4	-29.4	3.1	4.2	5.9
14	13.1	79.3	0.5	247.8	-67.2	2.3	3.1	4.4
15	14.1	70.6	0.0	219.6	-150.0	1.6	2.5	4.1
16	10.7	55.7	0.0	252.3	-244.8	1.0	1.6	3.2
17	8.7	80.9	8.5	51.0	-91.2	1.6	2.4	3.9
18	8.5	84.2	0.0	**	-75.6	0.9	1.7	3.5
19	13.8	80.3	5.5	170.4	-52.8	1.1	1.8	3.3
20	9.7	53.9	0.0	233.4	-238.8	1.6	2.4	4.0
21	7.2	67.4	0.0	338.7	-215.4	1.0	1.6	3.1
22	8.5	64.9	0.0	259.2	-202.2	1.1	1.6	3.1
23	9.3	69.8	0.0	450.6	-126.6	1.2	**	3.5
24	8.8	60.8	0.0	411.0	-185.0	0.8	**	2.8
25	6.1	72.7	0.0	265.8	-225.0	0.7	**	2.5
26	9.0	76.6	0.0	202.8	-108.0	1.2	**	3.4
27	11.8	50.6	12.5	72.0	-30.0	1.0	**	2.6
28	12.0	78.5	0.0	137.4	-85.2	1.3	**	3.1
29	7.7	57.6	0.0	277.2	-261.6	1.6	**	4.6
30	8.8	64.0	0.0	266.4	-214.2	1.1	**	3.3
MONTH	10.6	69.1	55.0	247.7	-153.8	1.5	2.3	3.7
LACK	9	10	5	8	1	9	212	9

TABLE 6.2-11B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	MNW	N
10M	13.4	14.1	7.2	2.7	2.2	0.7	0.7	0.9	0.9	0.0	0.6	2.5	3.5	10.4	27.6	8.7	4.0
20M	4.1	14.6	9.9	2.1	2.3	0.6	0.4	1.4	1.4	0.8	0.2	1.4	3.3	14.6	28.6	9.4	4.9
40M	0.8	14.1	7.7	3.2	1.8	1.3	1.1	1.4	0.4	0.3	0.8	2.5	1.5	12.4	29.9	10.8	9.8

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TABLE 6.2-11C HOURLY AVERAGES AND STANDARD DEVIATIONS

TIME(HH)	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	1.0	1.1	1.0	1.0	0.9	0.9	1.0	1.5	1.7	2.0	2.0	2.2	2.1	2.2	2.2	1.8	1.6	1.7	1.5	1.4	1.2	1.3	1.2	1.0
SIGMA	0.6	0.7	0.7	0.5	0.6	0.7	0.6	1.1	1.1	1.3	1.2	1.2	1.0	1.1	1.2	1.4	1.3	1.4	1.2	1.4	1.1	1.1	0.9	0.6
20M																								
MEAN	1.9	2.1	1.9	1.9	2.0	2.0	2.0	2.2	2.5	2.6	2.7	3.0	2.8	3.0	3.0	2.8	2.5	2.8	2.4	2.2	1.9	2.1	2.0	1.9
SIGMA	0.8	1.0	0.6	0.7	0.8	0.9	0.6	1.5	1.4	1.5	1.5	1.5	1.5	1.4	1.7	1.9	1.8	1.8	1.5	1.8	1.6	1.5	1.3	0.8
40M																								
MEAN	3.7	3.7	3.6	3.7	3.7	3.3	3.4	3.1	3.4	3.3	3.3	3.7	3.7	4.0	4.0	3.7	4.0	4.0	3.9	3.9	3.6	4.0	3.6	3.5
SIGMA	1.1	1.7	1.1	0.8	1.0	1.4	1.1	1.4	1.6	1.9	1.9	1.8	1.9	2.0	2.2	2.3	2.1	2.2	1.6	1.8	1.5	1.6	1.4	1.0
TEMPERATURE																								
TUNE																								
MEAN	7.9	7.9	7.6	7.6	7.2	6.9	7.3	9.6	11.8	13.6	14.5	15.1	15.4	15.3	15.0	14.0	12.9	12.1	11.2	10.5	9.6	9.3	8.8	8.2
SIGMA	3.4	3.3	3.2	3.2	3.2	3.3	3.3	2.9	2.5	2.4	2.4	2.6	2.7	2.6	2.5	2.2	2.4	2.6	2.7	2.9	3.1	3.1	3.2	3.3
HUMIDITY																								
MEAN	77.2	77.0	77.1	78.0	79.0	80.7	80.0	72.8	65.6	60.1	57.2	54.8	54.6	55.7	58.4	62.8	66.2	65.8	68.0	69.6	71.8	72.3	73.8	75.6
SIGMA	10.8	13.3	13.8	12.8	10.7	10.0	10.1	12.0	13.4	14.8	16.5	17.0	17.2	17.2	15.9	14.4	14.6	14.7	14.8	13.4	12.5	12.2	12.0	12.7
LAPSE																								
RATE																								
MEAN	3.3	2.5	2.4	2.9	3.3	3.7	3.2	-1.0	-2.0	-2.3	-2.3	-2.3	-2.2	-1.9	-1.3	0.3	1.6	1.9	2.6	2.8	3.0	2.3	2.7	2.9
SIGMA	3.1	2.9	2.9	3.0	3.6	3.8	3.5	1.2	0.9	0.7	0.7	0.8	0.7	0.6	0.6	1.9	3.2	3.8	3.6	3.2	3.4	3.2	2.9	3.2
STABIL.																								
RATIO																								
MEAN	1.9	1.5	0.6	0.7	1.4	1.6	1.3	-0.6	-0.7	-0.8	-0.6	-0.6	-0.7	-0.6	-0.4	-0.1	0.1	0.1	0.4	0.5	0.5	0.2	0.9	1.8
SIGMA	2.3	2.0	0.9	0.8	1.8	2.7	2.0	0.6	0.7	0.7	0.5	0.5	0.7	0.7	0.4	0.3	0.6	0.4	0.9	1.5	1.0	0.7	1.4	3.1
RADIATION																								
MEAN	-10.3	-9.8	-9.5	-9.6	-9.6	-9.4	-4.0	22.2	30.6	34.6	38.6	36.6	34.0	24.1	20.3	5.0	-12.7	-12.1	-12.2	-12.0	-10.5	-10.5	-11.1	-10.5
SIGMA	6.2	6.1	5.9	6.2	6.1	6.2	5.2	23.8	22.1	14.1	15.4	16.6	13.9	10.5	26.5	2.0	5.9	6.2	5.6	6.0	6.0	6.0	5.8	6.0

TABLE 6.2-11D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	MNW	NNW	N	LACK					
A	8																							
A-B	69																							
B	71	3	5	6	7	3	1	3	2	1	1	2	1	12	22	7	7	1	1	2				
B-C	16	4	6	1										6	15	7					2		4	
C	23	7	4	3										1	1	1								
C-D	4	3	1											1	1	6								
D1	71	19	14	3	2	1	2	3	2	1	1	3	1	2	7	5					4		3	
D2	72	19	3											18	14	10					2		1	
E	14	7	2											1	3						1		1	
F	31	15	3											1	7						1		3	
G	332	22	8	1	1	1	2	5	2	7	6	14	45	134	51						21		10	
LACK	9													5										4

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TABLE 6.2-11E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	MNW	NW	NNW	N	LACK	TOTL	
-0.4	93																			
0.5-0.9	4	3	2	2	3	2	2	1	4	2	2	5	6	29	60	33	10	2	95	
1.0-1.9	26	10	2	11	2	2	3	3	1	1	8	8	13	37	83	24	12	5	191	
2.0-2.9	27	13	11	2	2	1	2	2	2	2	2	2	4	5	17	3	4	4	243	
3.0-3.9	23	15	4							1	1	2	1	1	6		2	1	56	
4.0-4.9	13	6													1			1	23	
5.0-5.9	4	1																	5	
6.0-6.9	1																		1	
7.0-7.9																			0	
8.0-8.9																			0	
9.0-9.9																			0	
10.0-																			0	
LACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	4	9	
TOTL	93	58	50	19	15	5	5	6	6	4	4	17	24	72	192	60	28	26	720	
20M																				
-0.4	21																			
0.5-0.9		1	1	1	1	1	1	1	1	1	1	2	7	29	21	9	2	0	21	
1.0-1.9		5	5	5	2	1	3	4	3	2	2	2	7	29	71	27	12	2	39	
2.0-2.9		18	7	3	6	1	4	4	3	2	2	2	10	35	37	12	6	6	176	
3.0-3.9		22	11	4				2	2	2	2	2	6	8	9		4	4	62	
4.0-4.9		14	13	3					1	1	1	1		1	3		1	1	37	
5.0-5.9		10	11												1				22	
6.0-6.9		3	1																4	
7.0-7.9		3	2																5	
8.0-8.9																			0	
9.0-9.9																			0	
10.0-																			0	
LACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	207	212	
TOTL	21	75	51	11	12	3	2	7	7	4	1	7	17	75	147	48	25	207	720	
40M																				
-0.4	6																			
0.5-0.9		1	1	1	1	1	1	1	2	1	1	1	1	2	3	1	3	0	6	
1.0-1.9		2	2	1	1	2	2	4	2	2	2	3	4	12	14	9	10	3	14	
2.0-2.9		10	6	7	8	2	3	5	1	3	3	6	3	26	33	22	18	6	66	
3.0-3.9		22	7	5	3					6	3	2	3	28	83	21	17	1	157	
4.0-4.9		29	9	3						2	1	7	1	7	51	13	11	1	204	
5.0-5.9		14	13	6						1	2	2	1	2	13	8	7		127	
6.0-6.9		13	10	1						2	3	1	1	2	5	2	4		67	
7.0-7.9		6	5							1	1	1		5	1	1			43	
8.0-8.9		2																	17	
9.0-9.9		3																	4	
10.0-																			4	
LACK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	4	9	
TOTL	6	101	55	23	13	9	8	10	3	2	6	18	11	89	214	77	70	5	720	

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TABLE 6.2-12A DAILY AVERAGES

DATE	AIR TEMP. C.DEG	HUMIDITY PERCENT	PRECIPITATION MM	SOLAR RAD. CAL/SUCH/DAY	NET RAD. CAL/SUCH/DAY	WIND SPD(10) M/S	WIND SPD(20) M/S	WIND SPD(40) M/S
1	7.9	62.8	0.0	260.4	-244.2	1.0	**	3.2
2	8.5	73.0	0.0	157.2	-193.2	1.3	**	3.9
3	7.7	61.5	0.0	261.0	-201.6	0.8	**	3.1
4	8.4	75.1	0.0	168.0	-103.8	0.9	**	3.3
5	6.6	58.3	4.0	265.8	-198.0	1.6	**	4.8
6	3.3	55.9	0.0	262.8	-263.4	0.8	**	3.1
7	4.6	66.2	0.0	237.6	-225.6	1.1	**	3.4
8	7.3	67.3	0.0	240.6	-202.8	1.2	**	3.7
9	9.4	70.7	0.0	207.6	-145.2	1.1	**	3.1
10	10.9	78.9	0.5	114.0	-84.0	1.7	**	4.0
11	4.9	76.2	9.0	97.8	-169.2	2.0	**	4.5
12	3.0	64.4	0.0	273.4	-258.0	1.0	**	3.3
13	6.1	72.1	0.0	234.0	-177.6	1.0	**	3.4
14	9.1	79.0	0.0	170.5	-124.2	1.1	**	3.0
15	8.6	70.7	0.0	145.8	-179.4	1.0	**	3.2
16	7.0	73.8	0.0	231.6	-136.0	0.5	**	2.3
17	10.0	74.4	0.0	232.8	-145.2	1.2	**	3.3
18	7.1	68.3	2.0	73.2	-54.6	2.9	**	5.3
19	3.6	73.0	0.0	60.6	-56.4	2.6	**	5.2
20	2.5	56.8	0.0	219.0	-216.6	1.0	**	4.0
21	1.1	65.7	0.0	264.0	-267.6	0.8	**	3.1
22	3.8	66.4	0.0	168.0	-162.6	0.8	**	2.9
23	5.5	77.5	10.0	198.3	-102.0	1.3	**	3.7
24	7.1	59.8	1.0	217.6	-187.2	1.7	**	4.6
25	3.7	67.9	0.0	247.8	-209.4	0.6	**	2.3
26	4.8	67.6	0.0	223.4	-242.4	1.1	**	3.5
27	5.8	77.6	0.0	108.0	-154.8	0.9	**	3.2
28	6.8	61.7	0.0	81.0	-121.8	1.2	**	4.4
29	3.5	63.3	0.0	132.6	-158.4	1.2	**	3.8
30	0.6	51.5	0.0	264.0	-293.4	1.4	**	4.4
31	-0.3	57.6	0.0	274.2	-267.6	0.8	**	3.2
MONTH	5.8	67.5	26.5	196.3	-179.0	1.2	**	3.6
LACK	6	7	4	6	0	6	744	6

TABLE 6.2-12B PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	MNW	NW	NNW	N
10M	13.6	8.5	0.4	1.1	0.8	0.5	0.3	0.7	0.8	1.5	3.3	5.4	8.0	18.6	26.7	6.8	3.0
20M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40M	2.2	8.1	0.7	1.4	0.7	0.4	0.3	0.9	0.7	2.0	3.5	4.2	6.8	23.6	31.3	9.6	3.7

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TABLE 6.2-12C 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	1.0	0.9	1.1	1.1	1.1	1.0	0.9	1.1	1.4	1.4	1.4	1.5	1.7	1.6	1.7	1.3	1.1	1.1	1.2	1.2	1.0	1.2	1.1	1.2
SIGMA	0.8	0.6	0.5	1.0	0.8	0.7	0.7	0.6	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.8	0.8	1.0	0.7	0.7	1.1	1.0	1.1
20M																								
MEAN	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
SIGMA	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**	**
40M																								
MEAN	3.9	3.4	4.0	4.0	4.1	4.0	3.7	3.6	3.0	2.9	2.7	2.8	3.2	3.3	3.5	3.5	3.7	3.8	3.8	3.8	3.6	4.0	3.9	4.2
SIGMA	1.7	1.4	1.3	1.4	1.0	0.9	1.3	1.1	1.4	1.6	1.7	2.0	2.0	2.1	1.9	1.7	1.5	1.7	1.9	1.2	1.3	1.7	1.5	1.5
TEMPERATURE																								
MEAN	3.0	2.5	2.2	1.9	1.7	1.8	1.6	3.3	5.9	8.2	9.8	10.9	11.6	11.8	11.5	10.0	8.0	7.0	6.3	5.3	4.6	4.0	3.5	3.1
SIGMA	3.2	3.1	3.2	3.3	3.3	3.4	3.4	2.9	2.8	3.3	3.6	3.6	3.7	3.7	3.8	3.4	3.6	3.6	3.6	3.8	3.7	3.7	3.6	3.2
HUMIDITY																								
MEAN	77.1	79.3	79.0	80.3	80.1	80.4	81.9	75.6	66.2	56.8	52.3	49.6	46.9	46.6	48.8	53.9	61.0	63.8	66.6	70.3	72.9	74.6	76.3	76.6
SIGMA	10.3	9.6	9.0	6.4	8.0	8.3	7.7	8.6	10.2	12.1	12.9	12.2	12.8	13.8	12.7	12.6	12.1	12.0	12.5	12.0	11.9	10.2	10.8	10.9
LAPSE RATE																								
MEAN	5.1	6.2	6.1	5.3	5.3	4.8	5.3	1.6	-1.5	-2.1	-2.3	-2.2	-2.1	-1.7	-0.7	1.3	4.1	5.0	4.6	4.6	4.9	3.9	4.2	4.8
SIGMA	4.5	5.3	4.6	4.7	5.3	4.6	5.5	3.0	1.5	1.1	1.0	0.8	0.6	0.5	0.7	2.1	4.3	4.9	4.6	4.6	5.3	4.1	4.3	4.7
STABIL. RATIO																								
MEAN	2.5	**	3.9	1.7	3.0	2.6	2.9	0.7	-0.8	-1.0	-1.2	-1.1	-0.8	-0.8	-0.2	0.3	0.9	2.0	1.3	2.1	3.3	2.3	1.6	2.7
SIGMA	2.2	**	4.7	1.8	3.1	4.2	4.3	1.9	1.0	0.9	0.8	0.8	0.7	0.7	0.2	0.5	1.6	3.5	2.3	3.0	6.0	2.8	2.0	3.1
RADIATION																								
MEAN	-12.3	-12.9	-12.4	-12.1	-11.7	-11.1	-8.8	10.6	20.3	26.7	32.5	32.9	30.6	23.8	13.6	3.6	13.3	12.6	11.6	11.9	11.6	11.8	12.2	-12.6
SIGMA	5.8	5.4	5.7	5.6	5.6	6.5	6.3	5.0	6.2	11.9	12.9	13.9	10.6	8.5	4.6	0.8	6.0	6.3	6.8	6.5	6.5	6.5	6.0	5.7

TABLE 6.2-12D FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

CATEG	TOTL	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	MNW	NNW	N	LACK
A	96	1	4	4	4	4	1	2	2	1	8	10	9	18	25	4	4	3	
A-B	70	1	1	1	1	1	1	1	2	4	4	4	9	16	23	6	6	2	
B	8																		
B-C	16	5			1									1	6				
C																			
C-D																			
D1	83	21		1	2			1	3	5	6	4	8	7	17	6	6	2	
D2	50	19		1	1					4	4	4	3	5	10	4	4	2	
E	15	10												1	3	1	3	1	
F	11	1	1	1	1									2	2	3	3	1	
G	389	6	1	1	1	1	1	1	11	13	25	37	99	137	40	16	1		
LACK	6																		

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TABLE 6.2-12E FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

10M	CALM	NNE	NE	ENE	E	ESE	SE	SSE	S	SSW	SW	WSW	W	WNW	NW	NNW	N	LACK	TOTL	
-0.4	100																		0	100
0.5-0.9		2	1	3	3	1	2	1	3	5	9	20	33	49	77	19	6	0	1	233
1.0-1.9		6	1	3	2	3	2	3	2	6	13	16	26	78	95	21	12	1	1	288
2.0-2.9		21	1	2	1			1	1	2	2	2	7	9	17	10	3		2	70
3.0-3.9		29												1	7		1			40
4.0-4.9		3																		3
5.0-5.9		2	1												1					4
6.0-6.9																				4
7.0-7.9																				0
8.0-8.9																				0
9.0-9.9																				0
10.0-																				0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
TOTL	100	63	3	8	6	4	2	5	6	11	24	40	59	137	197	50	22	7	7	744
20M																				0
-0.4	0																			0
0.5-0.9																				0
1.0-1.9																				0
2.0-2.9																				0
3.0-3.9																				0
4.0-4.9																				0
5.0-5.9																				0
6.0-6.9																				0
7.0-7.9																				0
8.0-8.9																				0
9.0-9.9																				0
10.0-																				0
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
TOTL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
40M																				0
-0.4	16																			16
0.5-0.9		1	1	3	3	1	2	1	1		6	10	6	16	21	5	1			10
1.0-1.9		2	1	3	3	1	3	3	6		8	9	15	28	13	6	3			82
2.0-2.9		3						3	5		4	7	19	55	16	9	6			142
3.0-3.9		17	1	4				1	4		4	5	9	31	87	15	1			188
4.0-4.9		18							1		4	4	6	23	12	3	3			179
5.0-5.9		15									3	1	1	6	6	12	3			67
6.0-6.9		3									1		2	2	4	3	3			32
7.0-7.9		1											2	2	4	3	1			13
8.0-8.9																				5
9.0-9.9																				2
10.0-																				2
LACK		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
TOTL	16	60	5	10	5	3	2	7	5	15	26	31	50	174	231	71	27	6	6	744