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東海研氣象觀測年報（1970年）

1971年12月

環境放射能課

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

東海研氣象觀測年報（1970年）

東海研究所 保健物理安全管理部

環境放射能課

（1971年12月受理）

東海研究所構内で行なっている氣象觀測の結果を統計処理したもののうち、1970年1月から12月までの結果をまとめる。風向、風速その他諸要素の各月における時間、日、月各平均、標準偏差または総量が示される。

Annual Report of Meteorological Data at Tokai-Site (1970)

Environmental Survey Section

Division of Health Physics and Safety, Tokai, JAERI

(Received November 1971)

The data in this report cover the one-year period of 1970. Meteorological statistics are given in the form of monthly summaries, which include daily and hourly means of wind speed and other elements, occurrence frequencies of wind direction and atmospheric stability categories and others.

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| 1月 | |
| 日平均，時間平均と標準偏差，風向分布， | |
| 風向・風速分布，大気安定度分布 | |
| 2月 | |
| 3月 | |
| 4月 | |
| 5月 | |
| 6月 | |
| 7月 | |
| 8月 | |
| 9月 | |
| 10月 | |
| 11月 | |
| 12月 | |

1. ま え が き

東海研究所では、構内の40 m気象観測塔を用いて気象観測およびその結果の連続記録が行なわれており、さらにそれらデータは毎月電子計算機(FACOM-230-60)により統計処理されている。本報には、これらのうち1970年1月から12月までの結果が各月について、つぎのようにまとめられる。

TABLE-1 : 気温, 湿度, 日射, 夜間放射, 風速の日, 月平均, 降水量の日, 月総量

TABLE-2 : 風速, 気温, 湿度, 気温減率(Lapse rate), 大気安定度比(Stability ratio), 日射・夜間放射の時刻別平均値およびそれらの標準偏差

TABLE-3,4 : 風向の月間出現回数および頻度(%)

TABLE-5 : 風向の風速別月間出現回数

TABLE-6 : 大気安定度の風向別月間出現回数

2. 測定方法, データ整理方法および欠測状況

9月までの湿度は、地上1.5 m高の百葉箱内に設置した過巻毛髪湿度計で測定したが、10月以降には、横河電機製Dewcel露点計を百葉箱内に設置し、得られる露点温度と5 m高気温から計算によって求められている。¹⁾

各要素の定義、記録紙からのデータ読取り方法などは前年と同様であるが、本書の利用に必要なからここに再録する(表A, B, C)。

1970年における欠測状況は表Dに示すとおりである。

3. 統計結果

(1) 風 向

年間の風向出現頻度を第1表および第1図に示す。最多風向が北西であり、ついで北北東～北東の風向が多いことは1969年と全く同じであり、その頻度も同程度である。

(2) 静 穏 (第2表, 第2図(a))

1969年と比較すると、最多出現月が前年の7～8月に対して6月であることが特徴的である。また高さ別では、両者が同傾向ではなく、10 m高における出現頻度は冬期に増加している。

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(3) 風速 (第2表, 第2図 (b))

月平均の変化の傾向は平年的なものであり、過去の結果と著しい差異はない。年平均風速も、両測高ともに前年とほとんど等しい。

(4) 気温 (第2表, 第2図 (c))

例年とほぼ同様である。ただ冬期の気温は前年よりやや低い。

(5) 降水量 (第2表, 第2図 (b))

年間総降水量は前年 (1,138mm) より少なく、また過去5ヶ年の平均 (1,322mm) と比較しても少ない。11月の降水量が多いのは、20日から21日にかけて通過した発達低気圧によるものである。

(6) 大気安定度 (第3表, 第3図)

年間の出現頻度は前年とほぼ同様である。

[引用 文 献]

「東海研気象観測年報・1969年」 JAERI-memo 4162, (1971)

表A 記録紙読取り方法

| 要素 | 単位 | 記録紙 スピード | 読取り方法 | 要素 | 単 位 | 記録紙 スピード | 読取り方法 |
|-----|-------|---------------|----------------|----------|-----------------------------|-----------------|----------------|
| 風向 | 16 方位 | (mm/hr) 15 | 毎時前10分間平均 | 日射 | cal/cm ² ·min(*) | (mm/hr) 12.5 | 毎時刻前1時間平均 |
| 風速 | m/sec | 15 | " | 夜間放射 | " (*) | 12.5 | " |
| 気温 | ℃ | 25 | 3時間毎 毎時刻瞬時値 | 降水 | mm/hr | 12.5 | 毎時刻前1時間総量 |
| 気温差 | ℃ | 25 | " | 露点 温度 | ℃ | 25 | 3時間毎 毎時刻瞬時値 |

(*) この単位は、統計処理後 cal/cm²·h または cal/cm²·day に変わる。

表B 要素の定義

| | 定 義 | 単 位 | | | | | | | | |
|--------------------------|---|------------------------------|---------------|--------|---------|---------------|--------|----|---------------|--|
| 静 穏 (Calm) | 風速が0.4 m/sec 以下 | | | | | | | | | |
| 気 温 (Temperature) | 地表 5 m 高の値 | °C | | | | | | | | |
| 気温減率 (Lapse rate) | $[(\text{気温})_{40\text{m}} - (\text{気温})_{5\text{m}}] \times 100 / 35$ | °C / 100m | | | | | | | | |
| 大気安定度 (Atmos. stability) | 表Cを参照 | | | | | | | | | |
| 安定度比 (Stability ratio) | $[\text{気温減率}] / [\text{風速}]_{10\text{m}}^2$ | °C/100m·(m/sec) ² | | | | | | | | |
| 日 射 (Solar radiation) | <table style="display: inline-table; border: none;"> <tr> <td style="border: none;">1月~3月</td> <td rowspan="2" style="border: none;">} (8時~16時) 範囲</td> </tr> <tr> <td style="border: none;">9月~12月</td> </tr> <tr> <td style="border: none;">4月, 5月,</td> <td rowspan="2" style="border: none;">} (7時~17時) 範囲</td> </tr> <tr> <td style="border: none;">7月, 8月</td> </tr> <tr> <td style="border: none;">6月</td> <td style="border: none;">} (7時~18時) 範囲</td> </tr> </table> | 1月~3月 | } (8時~16時) 範囲 | 9月~12月 | 4月, 5月, | } (7時~17時) 範囲 | 7月, 8月 | 6月 | } (7時~18時) 範囲 | cal/cm ² ·hr または cal/cm ² ·day |
| 1月~3月 | } (8時~16時) 範囲 | | | | | | | | | |
| 9月~12月 | | | | | | | | | | |
| 4月, 5月, | } (7時~17時) 範囲 | | | | | | | | | |
| 7月, 8月 | | | | | | | | | | |
| 6月 | } (7時~18時) 範囲 | | | | | | | | | |
| 夜間放射 (Net radiation) | 上記の残りの時間帯 統計値の負符号は地表からの放射 (out-going) を示す。 | | | | | | | | | |

表C 大気安定度の定義

| cal/cm ² ·min 【風速】 10m | 昼 間 | | | | 夜 間 | | |
|--------------------------------------|------|---------|---------|------|-------|-----------|-------|
| | ≥0.8 | 0.8~0.4 | 0.4~0.2 | ≤0.2 | ≤0.03 | 0.03~0.06 | ≥0.06 |
| m/sec ≤ 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 |

表D 諸要素欠測状況

| | 月 | 欠測回数 | | | | | | | | | | | | 年間 |
|-------|------|------|----|----|----|-----|----|-----|----|-----|-----|-----|----|------|
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
| 風速 | 5(m) | 17 | 0 | 0 | 1 | 79 | 2 | 0 | 0 | 10 | 0 | 16 | 11 | 136 |
| | 10 | 41 | 0 | 0 | 1 | 79 | 2 | 0 | 0 | 10 | 0 | 16 | 8 | 157 |
| | 20 | 8 | 0 | 0 | 1 | 79 | 2 | 0 | 0 | 10 | 0 | 0 | 17 | 117 |
| | 45 | 8 | 0 | 64 | 1 | 744 | 2 | 4 | 0 | 10 | 0 | 8 | 61 | 892 |
| 風向 | 10 | 50 | 56 | 61 | 32 | 112 | 63 | 147 | 71 | 14 | 14 | 15 | 52 | 687 |
| | 45 | 8 | 32 | 68 | 20 | 112 | 14 | 46 | 0 | 10 | 0 | 8 | 60 | 378 |
| 日射量 | | 22 | 11 | 0 | 1 | 106 | 4 | 8 | 0 | 8 | 35 | 50 | 25 | 270 |
| 夜間放射量 | 5 | 48 | 47 | 36 | 59 | 275 | 0 | 69 | 20 | 109 | 198 | 174 | 66 | 1101 |
| 気温 | 5 | 3 | 0 | 0 | 0 | 40 | 27 | 2 | 0 | 3 | 32 | 9 | 3 | 119 |
| 降水量 | | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 湿度 | | 4 | 0 | 0 | 12 | 21 | 83 | 44 | 60 | 240 | 32 | 9 | 35 | 540 |

第1表 高さ別風向頻度 (%) (年間)

| 高さ | 風向 | | | | | | | | | | | | | | | | |
|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|
| | calm | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N |
| 10m | 12.3 | 10.2 | 9.2 | 6.1 | 2.5 | 1.6 | 2.3 | 3.8 | 3.0 | 3.3 | 3.2 | 3.8 | 5.1 | 8.1 | 13.3 | 7.6 | 4.7 |
| 40m | 2.0 | 6.6 | 13.7 | 6.0 | 3.0 | 2.3 | 2.9 | 4.9 | 3.9 | 2.8 | 4.6 | 3.7 | 5.3 | 7.8 | 17.2 | 9.2 | 4.2 |

第2表 要素別月別頻度その他

| | 高さ(m) 月 単位 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 年平均 |
|------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | 静穏 | % | 5.0 | 7.0 | 7.3 | 8.9 | 15.0 | 20.9 | 9.5 | 14.0 | 13.9 | 12.7 | |
| 風速 | m/sec | 1.9 | 2.1 | 2.2 | 3.0 | 2.4 | 1.7 | 2.5 | 2.3 | 2.1 | 1.6 | 1.7 | 1.3 | 2.1 |
| | | 3.3 | 3.4 | 3.6 | 4.4 | — | 2.9 | 4.0 | 3.7 | 3.8 | 3.6 | 4.0 | 3.7 | 3.8 |
| 日射 | 5 $\frac{\text{cal}}{\text{cm}^2 \cdot \text{day}}$ | 209.0 | 251.9 | 334.0 | 337.2 | 422.1 | 337.8 | 394.4 | 403.1 | 258.5 | 240.6 | 208.1 | 172.5 | 297.4 |
| 夜間放射 | 5 $\frac{\text{cal}}{\text{cm}^2 \cdot \text{day}}$ | -48.0 | -49.0 | -45.8 | -57.3 | -47.3 | -20.9 | -24.8 | -25.0 | -29.1 | -43.3 | -42.1 | -51.1 | -40.3 |
| 気温 | 1.5 °C | 2.7 | 4.2 | 4.0 | 11.4 | 17.7 | 19.4 | 23.7 | 25.0 | 22.9 | 14.9 | 9.6 | 2.7 | 13.2 |
| 湿度 | 1.5 % | 66.4 | 64.2 | 57.4 | 74.4 | 79.1 | 85.0 | 82.8 | 80.8 | — | 77.4 | 72.4 | 65.7 | 73.2 |
| 降水量 | 5 mm | 59.5 | 29.5 | 48.0 | 30.0 | 169.0 | 128.5 | 64.0 | 39.0 | 86.5 | 75.0 | 241.5 | 27.0 | 997.5* |

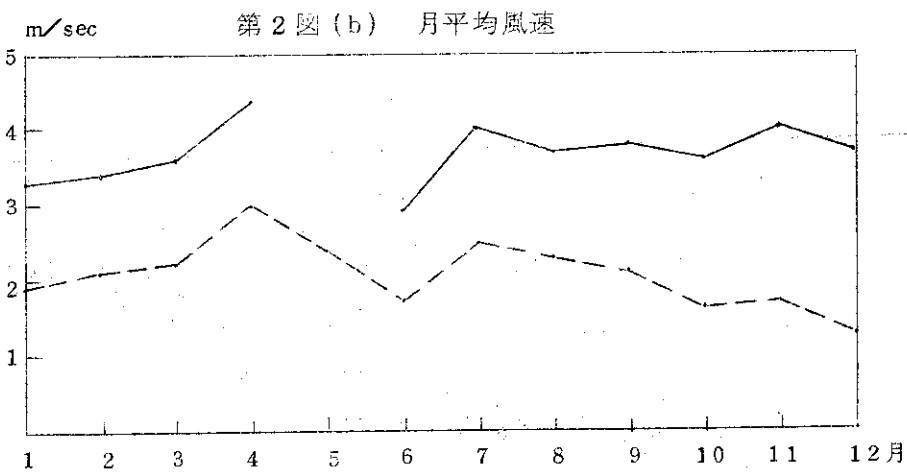
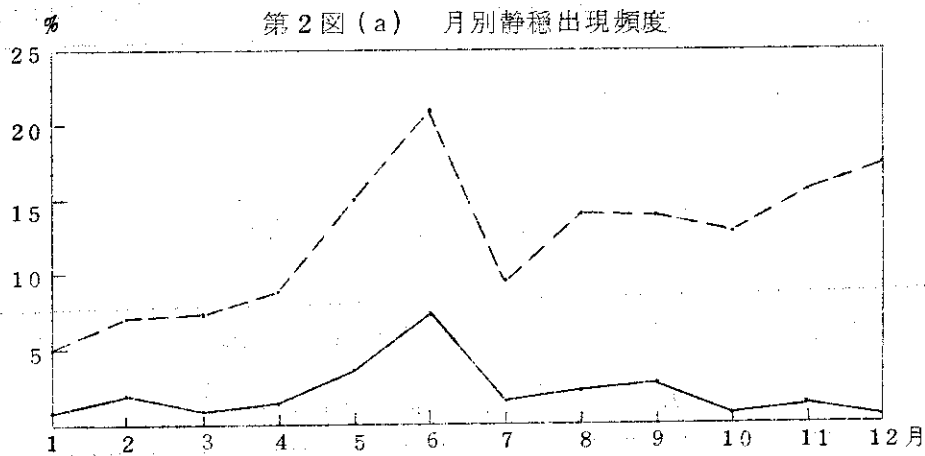
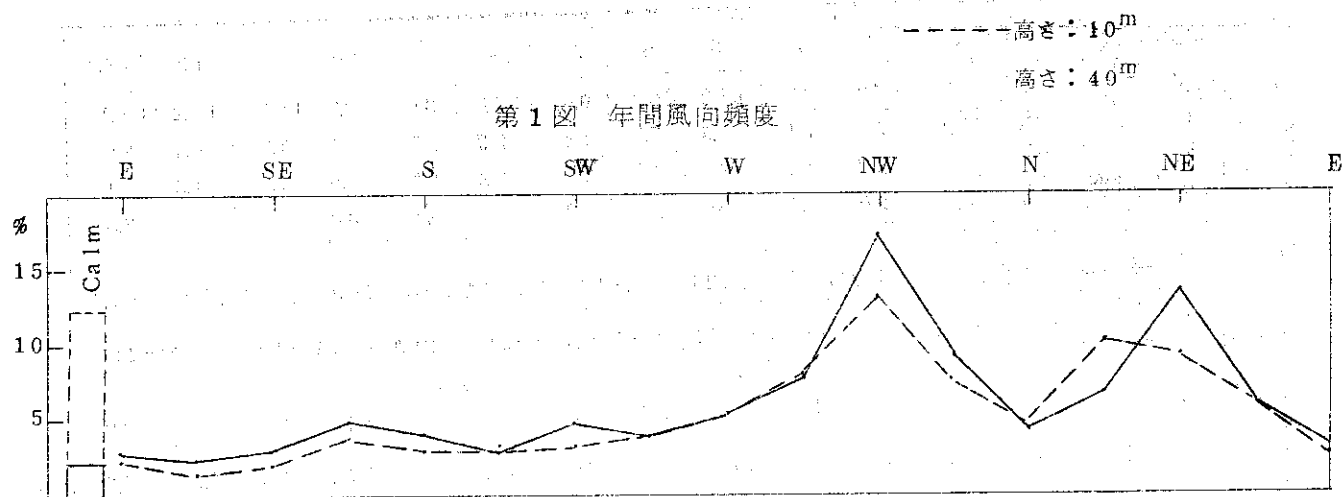
* 年間総降水量である。

第3表 大気安定度頻度(年間)

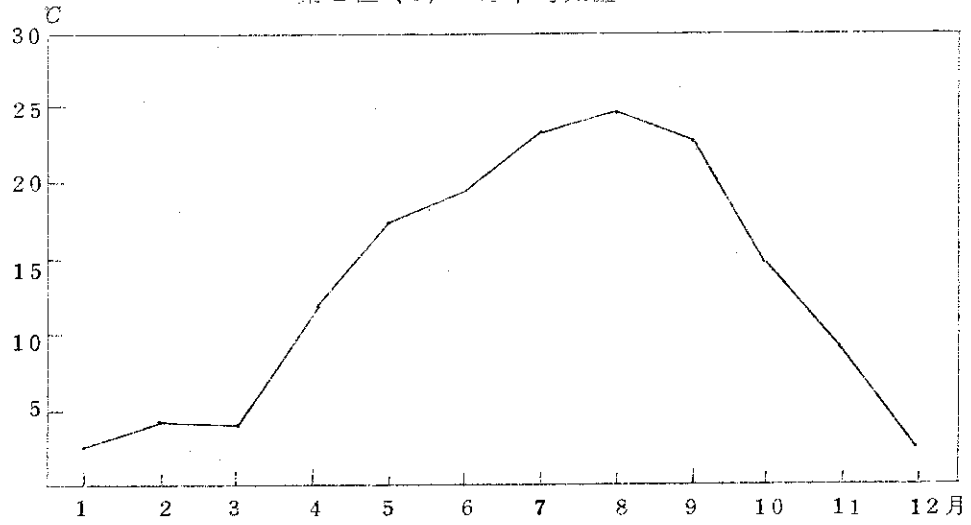
| 安定度 | A | A-B | B | B-C | C | C-D | D ₁ | D ₂ | E | F | G |
|-------|-----|-----|------|-----|-----|-----|----------------|----------------|-----|-----|------|
| 頻度(%) | 1.1 | 6.8 | 11.2 | 2.5 | 6.6 | 2.5 | 15.3 | 26.7 | 2.6 | 1.9 | 22.8 |

第4表 年間極値

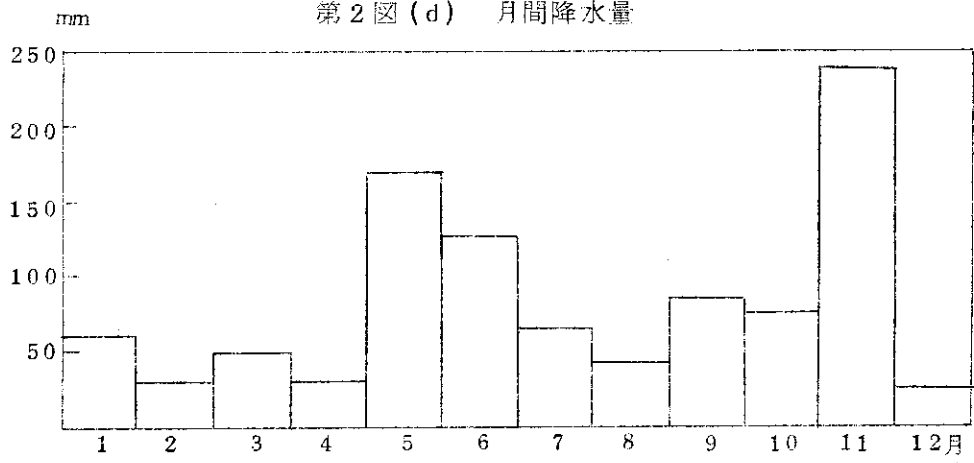
| 要素 | | 測定 | 極値 | 出現月日時 |
|---------------|-------|-----------------|-------|------------------|
| 風速 (m/sec) | 瞬間最大 | 10 ^m | 9.0 | 4月4日8時, 4月11日21時 |
| | " | 40 ^m | 13.5 | 1月31日4時 |
| 気温 (°C) | 瞬間最高 | 5 ^m | 33.6 | 9月2日13時 |
| | 瞬間最低 | 5 ^m | -11.2 | 1月17日3時, 6時 |
| | 日平均最高 | 5 ^m | 29.0 | 9月2日 |
| | 日平均最低 | 5 ^m | -2.5 | 1月17日 |
| 降水量 (mm) | 月総量最大 | | 241.0 | 11月 |
| | 日総量最大 | | 193.5 | 11月20日 |
| | 時総量最大 | | 25.5 | 11月20日2時 |



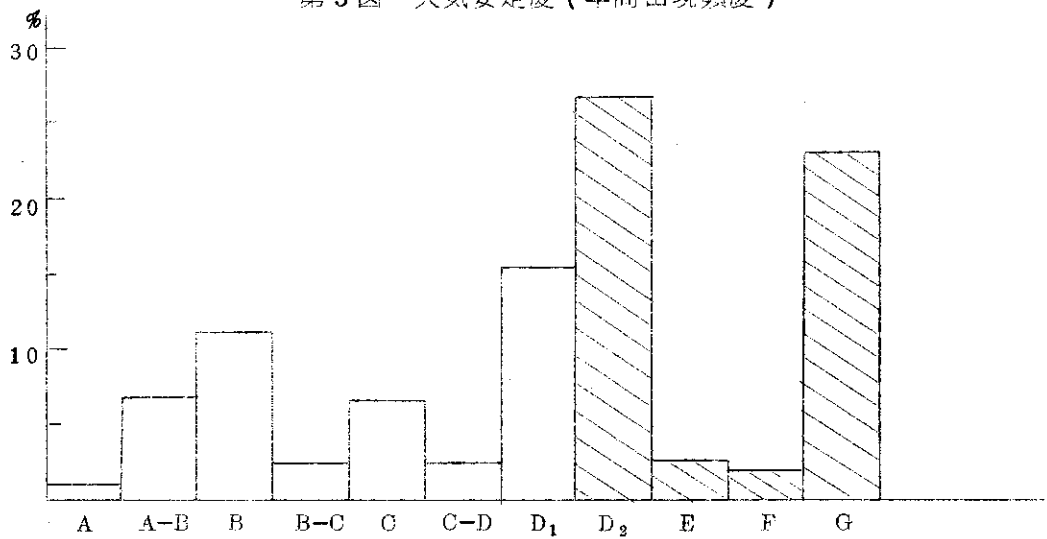
第2図(c) 月平均気温



第2図(d) 月間降水量



第3図 大気安定度 (年間出現頻度)



4. 月別統計結果

TOKAI-40 1 / 1970

TABLE-1 DAILY AVERAGES

| DATE | AIR TEMP. C. DEG | HUMIDITY PERCENT | PRECIPITAT. MM | SOLAR RAD. CAL/SQCM/DAY | NET RAD. CAL/SQCM/DAY | WIND SPD(5) M/S | WIND SPD(10) M/S | WIND SPD(20) M/S | WIND SPD(40) M/S |
|-------|------------------|------------------|----------------|-------------------------|-----------------------|-----------------|------------------|------------------|------------------|
| 1 | 6.0 | 86.5 | 0.0 | 99.6 | -21.2 | 0.8 | 1.4 | 1.3 | 2.4 |
| 2 | 4.8 | 67.6 | 0.0 | 123.0 | -35.7 | 1.2 | 2.0 | 2.3 | 3.2 |
| 3 | 3.7 | 62.7 | 0.0 | 56.4 | -6.1 | 1.3 | 2.7 | 3.3 | 3.1 |
| 4 | -0.5 | 85.7 | 0.0 | 64.2 | -0.8 | 1.6 | 3.1 | 3.2 | 3.7 |
| 5 | 0.1 | 89.9 | 1.0 | 216.0 | -40.9 | 1.3 | 2.2 | 2.4 | 3.5 |
| 6 | 1.0 | 88.6 | 0.0 | 271.8 | -70.3 | 1.0 | 2.1 | 2.9 | 3.4 |
| 7 | 2.5 | 62.5 | 0.0 | 242.4 | -61.9 | 1.3 | 2.2 | 2.7 | 3.7 |
| 8 | 2.1 | 61.0 | 0.0 | 174.0 | -46.3 | 1.0 | 1.3 | 1.5 | 2.5 |
| 9 | 2.4 | 58.7 | 0.0 | 286.2 | -55.9 | 1.2 | 2.0 | 2.5 | 3.2 |
| 10 | 2.2 | 67.7 | 0.0 | 189.0 | -39.7 | 0.9 | 1.3 | 1.5 | 2.6 |
| 11 | 999.9 | 63.0 | 0.0 | 999.9 | 999.9 | 0.7 | 1.2 | 2.0 | 3.1 |
| 12 | 4.8 | 999.9 | 0.5 | 111.6 | -22.9 | 1.0 | 1.7 | 2.1 | 2.6 |
| 13 | 4.6 | 68.7 | 0.0 | 229.8 | -66.7 | 1.2 | 2.0 | 2.8 | 3.6 |
| 14 | 1.5 | 49.1 | 0.0 | 282.0 | -70.1 | 1.7 | 2.0 | 2.8 | 4.2 |
| 15 | 0.2 | 72.4 | 0.0 | 164.4 | -29.0 | 0.7 | 1.3 | 1.9 | 2.2 |
| 16 | -1.7 | 82.0 | 2.5 | 65.4 | -29.6 | 0.4 | 1.4 | 2.1 | 2.8 |
| 17 | -2.5 | 57.0 | 1.5 | 316.8 | -66.1 | 1.2 | 2.2 | 3.5 | 4.6 |
| 18 | 0.7 | 61.9 | 0.5 | 285.0 | -79.9 | 1.3 | 2.0 | 3.2 | 3.7 |
| 19 | 1.9 | 57.6 | 0.0 | 296.4 | -64.3 | 1.0 | 1.6 | 2.2 | 2.9 |
| 20 | 2.8 | 58.6 | 0.0 | 263.4 | -68.5 | 0.6 | 1.1 | 1.7 | 2.5 |
| 21 | 3.8 | 58.1 | 0.0 | 274.8 | -55.9 | 0.9 | 1.7 | 2.4 | 2.8 |
| 22 | 2.9 | 56.0 | 0.0 | 276.6 | -73.9 | 0.9 | 1.6 | 2.2 | 3.1 |
| 23 | 1.5 | 68.6 | 0.0 | 130.8 | -54.7 | 0.8 | 1.5 | 2.2 | 2.9 |
| 24 | 3.5 | 60.2 | 0.0 | 294.0 | -57.1 | 1.1 | 1.7 | 2.0 | 3.0 |
| 25 | 3.4 | 57.1 | 0.0 | 999.9 | 999.9 | 1.0 | 999.9 | 1.9 | 2.7 |
| 26 | 2.6 | 67.5 | 0.0 | 188.2 | -36.7 | 0.8 | 1.2 | 1.8 | 2.7 |
| 27 | 2.3 | 57.9 | 0.0 | 359.5 | -78.4 | 1.0 | 1.8 | 2.6 | 3.3 |
| 28 | 1.8 | 69.5 | 0.0 | 315.6 | -75.1 | 0.9 | 1.5 | 1.9 | 2.9 |
| 29 | 3.6 | 73.6 | 1.5 | 297.0 | -51.1 | 0.8 | 1.2 | 1.5 | 2.5 |
| 30 | 8.0 | 90.2 | 52.0 | 33.6 | -10.3 | 1.3 | 1.8 | 2.5 | 3.5 |
| 31 | 10.9 | 64.9 | 0.0 | 181.2 | -26.5 | 3.4 | 5.5 | 7.8 | 8.0 |
| MONTH | 2.7 | 66.4 | 59.5 | 209.0 | -48.0 | 1.1 | 1.9 | 2.5 | 3.3 |
| LACK | 3 | 4 | 0 | 22 | 48 | 17 | 41 | 8 | 8 |

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TABLE-2 HOURLY AVERAGES AND STANDARD DEVIATIONS

| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
|---------------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|--|
| WIND SPD | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 0.9 | 0.9 | 0.9 | 0.7 | 0.7 | 0.8 | 0.9 | 0.9 | 1.2 | 1.4 | 1.5 | 1.8 | 1.8 | 1.8 | 1.8 | 1.2 | 0.9 | 0.8 | 0.7 | 0.9 | 1.0 | 1.1 | 1.0 | 0.9 | |
| SIGMA | 0.9 | 0.8 | 0.9 | 0.7 | 0.7 | 0.6 | 1.1 | 0.5 | 0.7 | 0.8 | 0.8 | 0.9 | 0.8 | 0.8 | 0.8 | 0.9 | 0.9 | 0.9 | 0.8 | 0.8 | 1.4 | 1.4 | 0.9 | 1.0 | |
| 10M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 1.7 | 1.8 | 1.7 | 1.6 | 1.7 | 1.7 | 1.8 | 1.6 | 1.9 | 2.1 | 2.2 | 2.5 | 2.4 | 2.5 | 2.4 | 1.8 | 1.5 | 1.8 | 1.4 | 2.0 | 1.7 | 1.8 | 1.8 | 1.8 | |
| SIGMA | 1.3 | 1.3 | 1.4 | 1.4 | 1.4 | 0.8 | 1.8 | 0.9 | 1.2 | 1.2 | 1.4 | 1.5 | 1.7 | 1.2 | 1.1 | 1.2 | 1.1 | 1.5 | 1.1 | 1.3 | 1.5 | 1.2 | 1.4 | 1.4 | |
| 20M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 2.6 | 2.6 | 2.5 | 2.4 | 2.5 | 2.4 | 2.6 | 2.1 | 2.1 | 2.1 | 2.3 | 2.7 | 2.8 | 2.9 | 3.1 | 2.3 | 2.3 | 2.5 | 2.1 | 2.6 | 2.4 | 2.6 | 2.7 | 2.5 | |
| SIGMA | 1.0 | 1.6 | 1.7 | 2.0 | 1.6 | 1.1 | 1.7 | 1.1 | 1.6 | 1.7 | 2.0 | 2.0 | 1.9 | 1.6 | 1.4 | 1.7 | 1.9 | 1.9 | 1.6 | 1.6 | 1.9 | 2.0 | 2.4 | 1.9 | |
| 45M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 3.7 | 3.7 | 3.9 | 3.8 | 3.5 | 3.4 | 3.5 | 2.9 | 2.5 | 2.4 | 2.5 | 2.9 | 2.9 | 2.8 | 3.0 | 2.7 | 3.0 | 3.4 | 2.9 | 3.4 | 3.5 | 3.7 | 3.9 | 3.9 | |
| SIGMA | 1.7 | 1.9 | 1.7 | 2.3 | 1.7 | 0.9 | 1.4 | 1.1 | 1.9 | 1.7 | 1.9 | 2.0 | 2.1 | 1.9 | 1.6 | 1.8 | 1.7 | 2.0 | 1.2 | 1.2 | 1.6 | 1.7 | 2.1 | 1.9 | |
| TEMPERATURE | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | -0.7 | | | -1.4 | | | 3.0 | | | 7.7 | | | 7.6 | | | 4.0 | | | 1.4 | | | 0.2 | |
| SIGMA | | | 3.8 | | | 3.9 | | | 3.0 | | | 3.5 | | | 3.0 | | | 2.6 | | | 3.2 | | | 3.4 | |
| HUMIDITY | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 79.9 | | | 83.9 | | | 69.4 | | | 46.9 | | | 47.4 | | | 60.7 | | | 68.6 | | | 75.4 | |
| SIGMA | | | 12.0 | | | 10.6 | | | 13.2 | | | 18.3 | | | 19.2 | | | 18.7 | | | 12.9 | | | 12.6 | |
| LAPSE RATE | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 0.6 | | | 0.8 | | | -3.5 | | | -4.4 | | | -3.8 | | | -0.3 | | | 0.2 | | | 0.1 | |
| SIGMA | | | 3.2 | | | 3.2 | | | 1.6 | | | 1.2 | | | 0.7 | | | 2.8 | | | 2.5 | | | 3.0 | |
| STABIL. RATIO | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 1.1 | | | 0.3 | | | -1.5 | | | -1.3 | | | -1.2 | | | 0.7 | | | 0.9 | | | 0.8 | |
| SIGMA | | | 3.2 | | | 1.7 | | | 2.3 | | | 1.3 | | | 2.5 | | | 3.3 | | | 2.7 | | | 4.0 | |
| RADIATION | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | -3.4 | -3.3 | -3.3 | -3.3 | -3.4 | -3.2 | -3.3 | 5.9 | 15.3 | 26.4 | 35.6 | 39.3 | 33.2 | 28.5 | 19.8 | 7.2 | -3.1 | -3.2 | -3.3 | -3.0 | -3.2 | -3.2 | -2.9 | -3.3 | |
| SIGMA | 2.0 | 1.9 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 4.2 | 8.4 | 11.4 | 15.0 | 16.2 | 16.5 | 14.1 | 9.6 | 4.3 | 1.7 | 1.9 | 1.8 | 1.8 | 1.7 | 1.8 | 1.8 | 1.7 | |

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TABLE-3 FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SF | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|----|------|
| 10M | 35 | 56 | 53 | 14 | 17 | 3 | 11 | 4 | 9 | 8 | 9 | 13 | 20 | 41 | 173 | 155 | 66 | 50 |
| 45M | 6 | 50 | 19 | 14 | 14 | 7 | 14 | 10 | 13 | 9 | 20 | 11 | 31 | 86 | 252 | 118 | 62 | 8 |

TABLE-4 PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SF | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|------|
| 10M | 7.0 | 8.1 | 7.6 | 2.6 | 2.4 | 1.2 | 1.6 | 0.6 | 1.3 | 1.2 | 1.3 | 2.2 | 2.9 | 5.9 | 24.9 | 22.3 | 9.5 | 0.0 |
| 45M | 0.8 | 6.8 | 2.6 | 1.9 | 1.9 | 1.0 | 1.9 | 1.4 | 1.8 | 1.2 | 2.7 | 1.5 | 4.2 | 11.7 | 34.2 | 16.0 | 8.4 | 0.0 |

TABLE-5 FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

| | TOTL | NNE | NE | ENE | E | ESE | SF | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|---------|------|-----|----|-----|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|------|
| 10M | | | | | | | | | | | | | | | | | | |
| -0.4 | 35 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 77 | 1 | 4 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 3 | 10 | 4 | 14 | 27 | 11 | 9 |
| 1.0-1.9 | 321 | 26 | 11 | 2 | 6 | 3 | 5 | 2 | 1 | 2 | 3 | 5 | 10 | 20 | 92 | 84 | 31 | 18 |
| 2.0-2.9 | 154 | 17 | 14 | 5 | 9 | 5 | 3 | 1 | 2 | 0 | 1 | 4 | 4 | 4 | 42 | 27 | 11 | 5 |
| 3.0-3.9 | 58 | 9 | 12 | 2 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 2 | 3 | 12 | 8 | 6 | 0 |
| 4.0-4.9 | 24 | 3 | 7 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 5 | 1 | 0 | 2 | 0 |
| 5.0-5.9 | 16 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 3 | 3 | 2 | 1 | 0 |
| 6.0-6.9 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 3 | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| 7.0-7.9 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 8.0-8.9 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9.0-9.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.0- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45M | | | | | | | | | | | | | | | | | | |
| -0.4 | 6 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 23 | 1 | 0 | 1 | 3 | 0 | 1 | 0 | 1 | 2 | 1 | 0 | 1 | 1 | 5 | 2 | 4 | 0 |
| 1.0-1.9 | 97 | 10 | 1 | 3 | 3 | 7 | 0 | 3 | 2 | 5 | 4 | 1 | 7 | 7 | 25 | 11 | 12 | 0 |
| 2.0-2.9 | 176 | 10 | 4 | 5 | 6 | 3 | 4 | 1 | 7 | 2 | 4 | 1 | 2 | 34 | 36 | 36 | 21 | 0 |
| 3.0-3.9 | 221 | 13 | 3 | 4 | 1 | 1 | 0 | 1 | 0 | 0 | 5 | 1 | 13 | 27 | 91 | 41 | 20 | 0 |
| 4.0-4.9 | 118 | 12 | 7 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 2 | 10 | 61 | 17 | 5 | 0 |
| 5.0-5.9 | 47 | 4 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 5 | 3 | 20 | 5 | 0 | 0 |
| 6.0-6.9 | 15 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 9 | 2 | 0 | 0 |
| 7.0-7.9 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 4 | 1 | 1 | 2 | 0 | 0 |
| 8.0-8.9 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 2 | 2 | 0 | 0 |
| 9.0-9.9 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 10.0- | 8 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 0 |

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TABLE-6 FREQUENCY DISTRIBUTION OF STABILITY CATEGORIES

| CATEG | TOTL | NNE | NE | ENE | E | ESE | SF | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|----|------|
| A | 4 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| A-B | 35 | 1 | 1 | 2 | 1 | 3 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 5 | 11 | 4 | 2 | 0 |
| B | 67 | 2 | 3 | 3 | 5 | 1 | 1 | 1 | 1 | 0 | 2 | 2 | 2 | 8 | 24 | 6 | 5 | 1 |
| B-C | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 3 | 3 | 6 | 5 | 1 | 0 |
| C | 28 | 5 | 1 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 6 | 1 | 5 | 0 | 0 |
| C-D | 9 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| D1 | 92 | 12 | 2 | 3 | 4 | 0 | 3 | 0 | 2 | 3 | 4 | 1 | 2 | 8 | 21 | 17 | 10 | 0 |
| D2 | 134 | 24 | 8 | 0 | 0 | 0 | 2 | 8 | 2 | 2 | 0 | 2 | 7 | 7 | 22 | 19 | 29 | 2 |
| E | 18 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 10 | 3 | 1 | 0 | 0 |
| F | 46 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 7 | 9 | 19 | 5 | 0 | 0 |
| G | 212 | 1 | 1 | 0 | 1 | 1 | 2 | 0 | 3 | 4 | 7 | 2 | 7 | 30 | 100 | 42 | 11 | 0 |
| LACK | 79 | 1 | 0 | 0 | 0 | 2 | 2 | 0 | 3 | 0 | 0 | 1 | 1 | 9 | 37 | 12 | 3 | 8 |
| TOTAL | 744 | 50 | 20 | 14 | 14 | 7 | 14 | 10 | 13 | 9 | 20 | 11 | 32 | 87 | 252 | 118 | 62 | 11 |

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TABLE-1 DAILY AVERAGES

| DATE | AIR TEMP. C. DEG | HUMIDITY PERCENT | PRECIPITAT. MM | SOLAR RAD. CAL/SQCM/DAY | NET RAD. CAL/SQCM/DAY | WIND SPD(5) M/S | WIND SPD(10) M/S | WIND SPD(20) M/S | WIND SPD(40) M/S |
|-------|------------------|------------------|----------------|-------------------------|-----------------------|-----------------|------------------|------------------|------------------|
| 1 | 4.6 | 34.2 | 0.0 | 298.2 | -67.9 | 3.0 | 4.8 | 6.6 | 6.6 |
| 2 | 2.9 | 40.5 | 0.0 | 328.2 | -79.9 | 2.6 | 4.2 | 5.8 | 6.2 |
| 3 | 2.4 | 45.7 | 0.0 | 367.4 | -77.0 | 0.6 | 1.4 | 1.9 | 2.5 |
| 4 | 4.2 | 61.2 | 0.0 | 277.2 | -57.7 | 0.9 | 1.5 | 2.0 | 3.0 |
| 5 | 0.1 | 47.2 | 0.0 | 250.8 | -74.5 | 2.5 | 3.7 | 5.7 | 6.1 |
| 6 | 0.0 | 57.7 | 0.0 | 343.8 | -74.5 | 1.0 | 1.8 | 2.6 | 2.8 |
| 7 | 2.4 | 69.7 | 0.0 | 73.2 | -30.7 | 0.6 | 1.0 | 1.4 | 2.0 |
| 8 | 1.9 | 90.0 | 3.0 | 243.6 | -61.5 | 0.8 | 1.3 | 1.9 | 2.5 |
| 9 | 3.9 | 52.6 | 0.0 | 999.9 | 999.9 | 2.1 | 3.0 | 3.9 | 4.6 |
| 10 | 0.4 | 38.5 | 0.0 | 422.0 | -77.2 | 2.7 | 4.1 | 5.8 | 6.1 |
| 11 | 0.4 | 57.2 | 0.0 | 359.4 | -69.1 | 0.6 | 1.1 | 1.5 | 2.0 |
| 12 | 3.9 | 61.2 | 0.0 | 353.4 | -60.1 | 1.0 | 1.3 | 2.1 | 2.6 |
| 13 | 6.5 | 68.4 | 0.0 | 312.0 | -43.3 | 1.0 | 1.6 | 1.9 | 3.0 |
| 14 | 7.7 | 63.2 | 0.0 | 330.6 | -52.3 | 1.1 | 1.7 | 2.1 | 2.9 |
| 15 | 4.4 | 54.2 | 0.0 | 194.4 | -48.7 | 1.3 | 1.7 | 2.3 | 3.6 |
| 16 | 1.1 | 70.1 | 0.0 | 264.0 | -71.0 | 0.9 | 1.2 | 1.8 | 2.3 |
| 17 | 4.6 | 69.2 | 0.0 | 370.8 | -58.3 | 1.3 | 1.9 | 2.3 | 3.0 |
| 18 | 6.6 | 78.5 | 0.0 | 297.0 | -44.5 | 1.0 | 1.1 | 1.4 | 2.2 |
| 19 | 10.1 | 68.7 | 0.0 | 282.0 | -44.5 | 1.2 | 1.9 | 2.8 | 3.1 |
| 20 | 9.4 | 78.5 | 0.0 | 163.8 | -27.7 | 1.9 | 3.0 | 4.3 | 4.1 |
| 21 | 9.9 | 67.7 | 1.0 | 220.8 | -8.0 | 1.4 | 1.7 | 2.3 | 3.1 |
| 22 | 4.0 | 55.0 | 0.0 | 84.6 | -20.0 | 0.7 | 1.3 | 1.7 | 2.3 |
| 23 | 3.0 | 56.4 | 0.0 | 177.6 | -34.9 | 0.9 | 1.2 | 1.8 | 2.7 |
| 24 | 3.9 | 63.9 | 3.0 | 243.6 | -38.6 | 1.1 | 1.5 | 2.0 | 2.3 |
| 25 | 4.9 | 88.9 | 16.5 | 32.4 | 999.9 | 2.0 | 3.8 | 4.4 | 4.3 |
| 26 | 4.8 | 82.4 | 4.5 | 81.6 | 999.9 | 1.0 | 1.9 | 2.4 | 2.9 |
| 27 | 7.0 | 89.0 | 0.0 | 282.8 | -29.0 | 1.2 | 1.6 | 1.9 | 2.8 |
| 28 | 1.3 | 89.2 | 1.5 | 103.8 | -3.7 | 2.0 | 3.7 | 4.8 | 4.4 |
| MONTH | 4.2 | 64.2 | 29.5 | 251.9 | -49.0 | 1.4 | 2.1 | 2.9 | 3.4 |
| LACK | 0 | 0 | 0 | 11 | 47 | 0 | 0 | 0 | 0 |

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TABLE-2 HOURLY AVERAGES AND STANDARD DEVIATIONS

| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---------------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| WIND SPD | | | | | | | | | | | | | | | | | | | | | | | | |
| H= | | | | | | | | | | | | | | | | | | | | | | | | |
| 5M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 1.1 | 1.0 | 1.1 | 1.0 | 1.2 | 1.1 | 1.0 | 1.2 | 1.4 | 1.6 | 1.8 | 2.1 | 2.2 | 2.4 | 2.0 | 1.9 | 1.5 | 1.1 | 1.0 | 1.1 | 1.0 | 1.0 | 1.0 | 1.0 |
| SIGMA | 1.2 | 1.1 | 1.0 | 1.0 | 1.1 | 0.9 | 0.9 | 1.0 | 1.0 | 1.3 | 1.1 | 1.1 | 1.3 | 1.3 | 1.1 | 1.3 | 1.3 | 1.3 | 1.1 | 1.0 | 1.1 | 0.9 | 0.9 | 1.1 |
| 10M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 2.0 | 1.9 | 2.1 | 1.9 | 2.1 | 2.0 | 2.0 | 1.9 | 2.0 | 2.3 | 2.5 | 3.0 | 2.9 | 3.0 | 2.5 | 2.7 | 2.1 | 1.8 | 1.9 | 2.0 | 1.8 | 1.5 | 1.8 | 1.8 |
| SIGMA | 1.6 | 1.8 | 1.6 | 1.6 | 1.4 | 1.3 | 1.6 | 1.7 | 1.5 | 1.8 | 1.9 | 1.8 | 1.6 | 1.7 | 1.4 | 1.9 | 1.6 | 1.8 | 1.9 | 1.8 | 1.4 | 1.2 | 1.2 | 1.6 |
| 20M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 2.9 | 2.8 | 3.0 | 2.9 | 3.2 | 3.1 | 3.1 | 2.6 | 2.4 | 2.8 | 3.1 | 3.6 | 3.8 | 3.7 | 3.2 | 3.6 | 2.7 | 2.5 | 2.5 | 2.8 | 2.4 | 1.9 | 2.4 | 2.7 |
| SIGMA | 2.0 | 2.4 | 2.1 | 2.0 | 1.8 | 1.8 | 1.8 | 2.1 | 2.1 | 2.8 | 3.0 | 3.2 | 2.5 | 2.6 | 2.1 | 2.4 | 2.1 | 2.5 | 2.8 | 2.5 | 2.1 | 1.5 | 1.6 | 2.0 |
| 45M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 3.6 | 3.6 | 3.9 | 3.9 | 3.6 | 3.9 | 3.8 | 3.1 | 2.7 | 3.0 | 3.2 | 3.4 | 3.4 | 3.5 | 3.3 | 3.8 | 3.4 | 3.4 | 3.3 | 3.5 | 3.2 | 2.9 | 3.4 | 3.5 |
| SIGMA | 1.8 | 2.1 | 1.7 | 1.5 | 1.4 | 1.4 | 1.5 | 1.9 | 1.8 | 2.7 | 2.6 | 2.7 | 2.1 | 2.5 | 1.9 | 2.5 | 2.4 | 2.6 | 2.4 | 2.1 | 1.9 | 1.6 | 1.6 | 1.9 |
| TEMPERATURE | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 0.5 | | | -0.2 | | | 5.3 | | | 9.0 | | | 9.0 | | | 5.4 | | | 2.7 | | | 1.6 |
| SIGMA | | | 3.5 | | | 3.9 | | | 3.4 | | | 3.9 | | | 3.8 | | | 3.4 | | | 3.1 | | | 3.2 |
| HUMIDITY | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 75.5 | | | 76.7 | | | 63.0 | | | 46.7 | | | 49.7 | | | 59.4 | | | 68.5 | | | 74.0 |
| SIGMA | | | 16.4 | | | 19.2 | | | 17.1 | | | 20.5 | | | 21.6 | | | 22.1 | | | 22.5 | | | 19.7 |
| LAPSE RATE | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 1.1 | | | 1.9 | | | -3.6 | | | -4.4 | | | -3.9 | | | -0.7 | | | 1.1 | | | 0.7 |
| SIGMA | | | 4.1 | | | 4.5 | | | 1.6 | | | 1.3 | | | 0.9 | | | 2.2 | | | 4.5 | | | 3.3 |
| STABIL. RATIO | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 0.9 | | | 2.0 | | | -2.4 | | | -1.1 | | | -1.6 | | | -1.1 | | | 2.5 | | | 0.7 |
| SIGMA | | | 5.3 | | | 3.6 | | | 3.4 | | | 1.2 | | | 2.6 | | | 3.1 | | | 8.3 | | | 2.5 |
| RADIATION | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | -3.3 | -3.2 | -3.3 | -3.1 | -3.1 | -3.2 | -3.2 | 6.6 | 16.0 | 29.3 | 37.5 | 43.1 | 38.7 | 36.2 | 27.1 | 15.6 | -2.3 | -3.6 | -3.6 | -3.5 | -3.6 | -3.6 | -3.3 | -3.2 |
| SIGMA | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 1.7 | 1.8 | 4.1 | 8.9 | 13.2 | 16.4 | 19.4 | 20.5 | 17.1 | 12.5 | 8.2 | 1.6 | 1.9 | 1.9 | 1.9 | 1.7 | 1.7 | 1.5 | 1.7 |

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TABLE-3 FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSF | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|----|------|
| 10M | 43 | 13 | 7 | 3 | 4 | 8 | 25 | 61 | 34 | 23 | 44 | 38 | 38 | 64 | 119 | 67 | 25 | 56 |
| 45M | 12 | 12 | 8 | 5 | 5 | 25 | 68 | 44 | 32 | 46 | 33 | 50 | 64 | 89 | 100 | 33 | 14 | 32 |

TABLE-4 PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSF | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|------|------|------|-----|------|
| 10M | 7.0 | 2.1 | 1.1 | 0.5 | 0.6 | 1.3 | 4.1 | 9.9 | 5.5 | 3.7 | 7.1 | 6.2 | 6.2 | 10.4 | 19.3 | 10.9 | 4.1 | 0.0 |
| 45M | 1.9 | 1.9 | 1.2 | 0.8 | 0.8 | 3.9 | 10.6 | 6.9 | 5.0 | 7.2 | 5.2 | 7.8 | 10.0 | 13.9 | 15.6 | 5.2 | 2.2 | 0.0 |

TABLE-5 FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

| | TOTL | NNE | NE | ENE | E | ESE | SE | SSF | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|---------|------|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|-----|----|-----|---|------|
| 10M | | | | | | | | | | | | | | | | | | |
| -0.4 | 43 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 87 | 1 | 2 | 0 | 1 | 2 | 5 | 16 | 7 | 2 | 0 | 1 | 3 | 2 | 14 | 17 | 3 | 11 |
| 1.0-1.9 | 251 | 6 | 4 | 2 | 3 | 2 | 18 | 35 | 12 | 4 | 3 | 3 | 15 | 24 | 50 | 31 | 9 | 30 |
| 2.0-2.9 | 105 | 2 | 1 | 1 | 0 | 4 | 2 | 6 | 9 | 8 | 5 | 10 | 9 | 13 | 15 | 4 | 8 | 8 |
| 3.0-3.9 | 71 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 5 | 7 | 7 | 4 | 7 | 16 | 6 | 5 | 1 |
| 4.0-4.9 | 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 14 | 7 | 5 | 5 | 8 | 2 | 0 | 3 |
| 5.0-5.9 | 36 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 9 | 2 | 5 | 7 | 6 | 0 | 0 |
| 6.0-6.9 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 1 | 0 | 3 | 7 | 1 | 0 | 3 |
| 7.0-7.9 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 2 | 0 | 0 | 0 |
| 8.0-8.9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| 9.0-9.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.0- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45M | | | | | | | | | | | | | | | | | | |
| -0.4 | 12 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 26 | 2 | 0 | 0 | 1 | 1 | 3 | 1 | 1 | 0 | 2 | 0 | 4 | 1 | 3 | 4 | 3 | 0 |
| 1.0-1.9 | 81 | 5 | 2 | 0 | 1 | 6 | 11 | 5 | 3 | 2 | 3 | 9 | 4 | 7 | 13 | 6 | 4 | 0 |
| 2.0-2.9 | 174 | 3 | 3 | 3 | 2 | 12 | 15 | 18 | 4 | 5 | 4 | 16 | 16 | 24 | 26 | 3 | 5 | 15 |
| 3.0-3.9 | 150 | 2 | 3 | 1 | 1 | 3 | 20 | 13 | 12 | 8 | 6 | 5 | 9 | 17 | 27 | 10 | 1 | 12 |
| 4.0-4.9 | 94 | 0 | 0 | 1 | 0 | 3 | 16 | 7 | 8 | 9 | 5 | 5 | 5 | 10 | 14 | 6 | 1 | 4 |
| 5.0-5.9 | 39 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 7 | 3 | 8 | 5 | 6 | 4 | 2 | 0 | 1 |
| 6.0-6.9 | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 13 | 3 | 3 | 10 | 7 | 2 | 1 | 0 | 0 |
| 7.0-7.9 | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 2 | 3 | 4 | 4 | 0 | 0 | 0 |
| 8.0-8.9 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 5 | 4 | 1 | 0 | 0 |
| 9.0-9.9 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 |
| 10.0- | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 6 | 6 | 1 | 0 | 0 | 0 |

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TABLE-6 FREQUENCY DISTRIBUTION OF STABILITY CATEGORY

| CATEG | TOTL | NNE | NE | ENE | E | ESE | SE | SSF | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-------|------|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|----|------|
| A | 12 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 2 | 1 | 1 | 1 | 3 | 0 | 0 | 0 |
| A-B | 41 | 1 | 0 | 1 | 1 | 3 | 4 | 2 | 1 | 0 | 4 | 9 | 1 | 5 | 7 | 0 | 1 | 1 |
| B | 55 | 2 | 0 | 1 | 0 | 5 | 8 | 5 | 1 | 0 | 9 | 7 | 3 | 7 | 3 | 3 | 3 | 1 |
| B-C | 10 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 2 | 0 | 1 | 0 | 0 |
| C | 28 | 1 | 1 | 0 | 1 | 0 | 0 | 2 | 1 | 2 | 1 | 2 | 3 | 10 | 3 | 1 | 0 | 0 |
| C-D | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 2 | 1 | 3 | 3 | 0 | 0 | 0 |
| D1 | 82 | 0 | 0 | 0 | 2 | 4 | 7 | 6 | 8 | 13 | 6 | 3 | 10 | 5 | 11 | 4 | 1 | 2 |
| D2 | 151 | 1 | 3 | 2 | 1 | 7 | 20 | 14 | 9 | 17 | 13 | 3 | 15 | 17 | 21 | 4 | 2 | 2 |
| E | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 5 | 6 | 2 | 0 | 0 | 2 |
| F | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 4 | 1 | 2 | 1 | 2 | 0 | 2 |
| G | 190 | 4 | 4 | 1 | 1 | 3 | 21 | 11 | 4 | 6 | 4 | 8 | 9 | 26 | 39 | 16 | 7 | 26 |
| LACK | 58 | 0 | 0 | 0 | 0 | 2 | 6 | 3 | 5 | 4 | 2 | 9 | 11 | 10 | 3 | 3 | 0 | 0 |
| TOTAL | 672 | 12 | 8 | 5 | 6 | 25 | 69 | 46 | 32 | 46 | 34 | 51 | 64 | 90 | 100 | 34 | 14 | 36 |

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TABLE-1 DAILY AVERAGES

| DATE | AIR TEMP. C/DEG | HUMIDITY PERCENT | PRECIPITAT. MM | SOLAR RAD. CAL/SQCM/DAY | NET RAD. CAL/SQCM/DAY | WIND SPD(5) M/S | WIND SPD(10) M/S | WIND SPD(20) M/S | WIND SPD(40) M/S |
|-------|-----------------|------------------|----------------|-------------------------|-----------------------|-----------------|------------------|------------------|------------------|
| 1 | 2.4 | 55.4 | 0.0 | 387.6 | -39.2 | 2.0 | 3.0 | 2.9 | 4.1 |
| 2 | -0.2 | 39.2 | 0.0 | 358.2 | -69.7 | 2.0 | 2.5 | 3.0 | 4.5 |
| 3 | 1.5 | 51.4 | 0.0 | 141.6 | -22.3 | 0.5 | 1.1 | 1.1 | 1.9 |
| 4 | 1.2 | 93.5 | 19.0 | 32.4 | 999.9 | 1.3 | 2.9 | 3.2 | 3.8 |
| 5 | -0.1 | 47.9 | 0.0 | 453.6 | -70.3 | 1.7 | 2.7 | 3.2 | 4.5 |
| 6 | -0.4 | 56.7 | 0.0 | 393.6 | -75.1 | 1.2 | 2.2 | 2.8 | 3.5 |
| 7 | 0.9 | 53.7 | 0.0 | 463.2 | -68.5 | 2.2 | 3.6 | 5.0 | 5.5 |
| 8 | 3.8 | 49.1 | 0.0 | 394.2 | -55.4 | 1.1 | 1.8 | 2.4 | 2.8 |
| 9 | 6.0 | 61.9 | 0.0 | 322.8 | -42.7 | 1.6 | 2.1 | 3.1 | 3.0 |
| 10 | 7.1 | 66.6 | 3.0 | 370.2 | -37.9 | 2.0 | 2.7 | 3.2 | 4.0 |
| 11 | 4.3 | 71.4 | 0.0 | 154.2 | -25.9 | 1.8 | 3.1 | 4.5 | 4.6 |
| 12 | 1.9 | 54.2 | 0.0 | 264.0 | -29.0 | 1.3 | 1.9 | 2.3 | 2.6 |
| 13 | 2.4 | 47.6 | 0.0 | 309.0 | -27.7 | 1.1 | 1.4 | 1.6 | 2.1 |
| 14 | 2.8 | 44.5 | 0.0 | 408.0 | -40.4 | 1.3 | 1.6 | 2.0 | 999.9 |
| 15 | 2.9 | 66.9 | 0.0 | 150.0 | -35.9 | 1.1 | 1.7 | 1.8 | 999.9 |
| 16 | 8.7 | 82.2 | 23.0 | 51.0 | -34.9 | 2.1 | 2.6 | 3.4 | 999.9 |
| 17 | 3.5 | 43.1 | 0.0 | 360.6 | -66.7 | 1.9 | 3.1 | 3.8 | 5.7 |
| 18 | 3.5 | 39.1 | 0.0 | 412.2 | 999.9 | 1.9 | 3.0 | 3.8 | 4.5 |
| 19 | 3.2 | 41.5 | 0.0 | 422.4 | -88.2 | 1.8 | 2.4 | 3.1 | 4.5 |
| 20 | 1.2 | 43.5 | 0.0 | 405.0 | -67.9 | 1.8 | 2.2 | 3.2 | 3.9 |
| 21 | 1.8 | 50.2 | 0.0 | 442.2 | -56.5 | 1.0 | 1.7 | 1.9 | 2.6 |
| 22 | 4.1 | 62.0 | 2.0 | 264.6 | -25.3 | 1.5 | 1.7 | 1.8 | 2.5 |
| 23 | 3.6 | 52.0 | 1.0 | 520.8 | -46.3 | 1.6 | 2.2 | 2.6 | 4.1 |
| 24 | 5.4 | 46.2 | 0.0 | 430.2 | -48.7 | 1.8 | 2.1 | 2.5 | 4.1 |
| 25 | 4.7 | 56.1 | 0.0 | 371.4 | -61.9 | 1.7 | 2.0 | 2.7 | 3.2 |
| 26 | 4.2 | 62.1 | 0.0 | 504.6 | -41.5 | 1.1 | 1.2 | 1.3 | 2.1 |
| 27 | 7.1 | 74.4 | 0.0 | 312.6 | -29.6 | 1.9 | 1.9 | 2.3 | 3.1 |
| 28 | 8.8 | 77.9 | 0.0 | 168.6 | -26.7 | 1.0 | 1.7 | 2.5 | 2.9 |
| 29 | 9.5 | 66.6 | 0.0 | 421.2 | -29.0 | 2.0 | 2.0 | 2.4 | 3.0 |
| 30 | 10.8 | 64.2 | 0.0 | 151.2 | -34.9 | 1.4 | 2.0 | 2.6 | 3.6 |
| 31 | 7.5 | 50.6 | 0.0 | 512.4 | -42.1 | 2.1 | 2.5 | 3.1 | 3.8 |
| MONTH | 4.0 | 57.4 | 48.0 | 334.0 | -45.8 | 1.6 | 2.2 | 2.8 | 3.6 |
| LACK | 0 | 0 | 0 | 0 | 36 | 0 | 0 | 0 | 64 |

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TABLE-2 HOURLY AVERAGES AND STANDARD DEVIATIONS

| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| WIND SPD | | | | | | | | | | | | | | | | | | | | | | | | |
| M= | | | | | | | | | | | | | | | | | | | | | | | | |
| 5M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 0.8 | 0.7 | 0.8 | 0.8 | 0.7 | 0.7 | 1.0 | 1.6 | 1.8 | 2.2 | 2.6 | 3.0 | 3.2 | 3.2 | 2.9 | 2.4 | 2.0 | 1.5 | 1.3 | 1.2 | 0.9 | 0.9 | 0.9 | 0.9 |
| SIGMA | 0.9 | 0.7 | 0.8 | 0.8 | 0.7 | 0.6 | 0.7 | 1.0 | 1.0 | 1.1 | 1.0 | 1.1 | 1.2 | 1.2 | 1.2 | 1.5 | 1.3 | 1.3 | 1.1 | 1.2 | 0.8 | 0.6 | 0.7 | 0.9 |
| 10M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 1.4 | 1.5 | 1.4 | 1.5 | 1.3 | 1.3 | 1.5 | 2.1 | 2.5 | 2.7 | 3.1 | 3.7 | 3.7 | 3.9 | 3.5 | 3.0 | 2.5 | 2.3 | 2.0 | 1.8 | 1.7 | 1.6 | 1.5 | 1.6 |
| SIGMA | 1.0 | 0.9 | 1.0 | 1.0 | 0.8 | 0.8 | 0.9 | 1.4 | 1.5 | 1.6 | 1.6 | 1.7 | 1.7 | 1.7 | 1.4 | 1.6 | 1.5 | 1.2 | 1.5 | 1.2 | 1.1 | 1.0 | 0.9 | 1.2 |
| 20M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 2.1 | 2.0 | 1.9 | 1.9 | 1.7 | 1.6 | 1.7 | 2.5 | 2.7 | 3.3 | 3.7 | 4.2 | 4.4 | 4.6 | 4.3 | 3.6 | 3.2 | 3.0 | 2.7 | 2.4 | 2.0 | 2.2 | 2.2 | 2.3 |
| SIGMA | 1.3 | 1.6 | 1.4 | 1.3 | 1.2 | 1.2 | 1.2 | 1.6 | 1.9 | 1.8 | 1.8 | 2.3 | 2.4 | 2.4 | 1.7 | 2.0 | 2.1 | 1.9 | 1.6 | 1.6 | 1.6 | 1.4 | 1.3 | 1.7 |
| 45M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 3.2 | 3.3 | 3.3 | 3.1 | 3.2 | 3.0 | 2.8 | 3.0 | 2.9 | 3.4 | 4.1 | 4.1 | 4.9 | 4.7 | 4.5 | 4.2 | 4.0 | 3.9 | 3.8 | 3.5 | 3.1 | 3.4 | 3.3 | 3.1 |
| SIGMA | 1.6 | 1.4 | 1.3 | 1.6 | 1.2 | 1.1 | 1.1 | 1.5 | 1.9 | 2.2 | 2.5 | 1.8 | 2.4 | 2.4 | 2.1 | 2.4 | 2.1 | 1.9 | 2.1 | 2.0 | 1.3 | 1.0 | 1.1 | 1.3 |
| TEMPERATURE | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | -0.0 | | | | -0.4 | | 5.7 | | | | 8.3 | | | 8.5 | | | 5.5 | | | 3.0 | | | 1.5 |
| SIGMA | | 3.2 | | | | 3.4 | | 3.2 | | | | 3.7 | | | 3.4 | | | 3.7 | | | 3.7 | | | 3.6 |
| HUMIDITY | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 72.0 | | | 70.8 | | 53.6 | | | | 41.0 | | | 40.8 | | | 48.3 | | | 59.9 | | | 67.2 |
| SIGMA | | | 17.6 | | | 16.8 | | 16.9 | | | | 20.0 | | | 20.2 | | | 18.8 | | | 17.4 | | | 15.8 |
| LAPSE RATE | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 0.0 | | | 0.7 | | -3.0 | | | | -4.6 | | | -4.1 | | | -1.8 | | | -0.8 | | | 0.1 |
| SIGMA | | | 2.8 | | | 3.9 | | 1.0 | | | | 1.5 | | | 1.0 | | | 1.4 | | | 2.0 | | | 3.2 |
| STABILITY RATIO | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 1.2 | | | 2.4 | | -1.1 | | | | -0.5 | | | -0.5 | | | -0.9 | | | 0.3 | | | 0.9 |
| SIGMA | | | 5.8 | | | 5.9 | | 0.5 | | | | 0.5 | | | 0.6 | | | 1.7 | | | 3.2 | | | 4.1 |
| RADIATION | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | -3.1 | -2.9 | -3.0 | -3.0 | -2.9 | -2.8 | -1.7 | 15.9 | 29.5 | 42.7 | 49.1 | 53.1 | 49.9 | 43.6 | 24.6 | 20.8 | -3.3 | -3.3 | -3.6 | -3.4 | -3.2 | -3.0 | -3.0 | -3.3 |
| SIGMA | 1.8 | 1.8 | 1.8 | 1.8 | 1.9 | 1.9 | 1.4 | 7.5 | 12.6 | 19.0 | 23.9 | 23.7 | 21.8 | 20.2 | 13.8 | 10.3 | 1.9 | 1.6 | 1.5 | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 |

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TABLE-3 FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|----|------|
| 10M | 50 | 37 | 18 | 16 | 8 | 9 | 14 | 22 | 18 | 8 | 18 | 34 | 64 | 115 | 170 | 56 | 26 | 61 |
| 45M | 5 | 44 | 17 | 8 | 16 | 8 | 20 | 28 | 10 | 7 | 23 | 36 | 55 | 103 | 190 | 76 | 30 | 68 |

TABLE-4 PERCENTAGE FREQUEN.DISTRIB OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|------|
| 10M | 7.3 | 5.4 | 2.6 | 2.3 | 1.2 | 1.3 | 2.0 | 3.2 | 2.6 | 1.2 | 2.6 | 5.0 | 9.4 | 16.8 | 24.9 | 8.2 | 3.8 | 0.0 |
| 45M | 0.7 | 6.5 | 2.5 | 1.2 | 2.4 | 1.2 | 3.0 | 4.1 | 1.5 | 1.0 | 3.4 | 5.3 | 8.1 | 12.2 | 28.1 | 11.2 | 4.4 | 0.0 |

TABLE-5 FREQUENCY DISTRIBUTION OF W.DIR. AND SPEED

| | TOTL | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|---------|------|-----|----|-----|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|------|
| 10M | | | | | | | | | | | | | | | | | | |
| -0.4 | 50 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 87 | 3 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 3 | 17 | 34 | 13 | 4 | 9 |
| 1.0-1.9 | 211 | 6 | 1 | 6 | 2 | 2 | 5 | 2 | 0 | 3 | 6 | 9 | 32 | 42 | 50 | 18 | 9 | 18 |
| 2.0-2.9 | 165 | 7 | 7 | 3 | 2 | 5 | 6 | 5 | 3 | 1 | 3 | 11 | 14 | 26 | 29 | 11 | 9 | 23 |
| 3.0-3.9 | 125 | 10 | 6 | 5 | 3 | 2 | 2 | 11 | 1 | 3 | 7 | 8 | 4 | 12 | 33 | 8 | 2 | 8 |
| 4.0-4.9 | 59 | 5 | 4 | 1 | 1 | 0 | 0 | 3 | 7 | 1 | 1 | 3 | 7 | 7 | 12 | 4 | 1 | 2 |
| 5.0-5.9 | 29 | 4 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 2 | 3 | 5 | 9 | 1 | 1 | 0 |
| 6.0-6.9 | 12 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 2 | 3 | 1 | 0 | 1 |
| 7.0-7.9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.0-8.9 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9.0-9.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.0- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45M | | | | | | | | | | | | | | | | | | |
| -0.4 | 5 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 18 | 0 | 1 | 2 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 1 | 1 | 1 | 4 | 1 | 2 | 1 |
| 1.0-1.9 | 77 | 1 | 0 | 1 | 5 | 2 | 2 | 2 | 1 | 0 | 4 | 7 | 8 | 15 | 15 | 9 | 5 | 0 |
| 2.0-2.9 | 163 | 7 | 2 | 0 | 3 | 4 | 9 | 4 | 1 | 2 | 8 | 5 | 16 | 26 | 42 | 21 | 10 | 3 |
| 3.0-3.9 | 131 | 9 | 5 | 1 | 1 | 1 | 5 | 4 | 2 | 1 | 2 | 6 | 14 | 16 | 38 | 18 | 8 | 0 |
| 4.0-4.9 | 131 | 11 | 5 | 3 | 2 | 1 | 2 | 8 | 1 | 1 | 9 | 7 | 8 | 11 | 43 | 16 | 3 | 0 |
| 5.0-5.9 | 70 | 8 | 4 | 1 | 2 | 0 | 0 | 6 | 1 | 2 | 0 | 5 | 4 | 13 | 17 | 6 | 1 | 0 |
| 6.0-6.9 | 43 | 6 | 0 | 0 | 3 | 0 | 0 | 1 | 1 | 1 | 0 | 5 | 3 | 5 | 15 | 2 | 1 | 0 |
| 7.0-7.9 | 25 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 7 | 10 | 2 | 0 | 0 |
| 8.0-8.9 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 2 | 0 | 0 | 0 |
| 9.0-9.9 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 4 | 0 | 0 | 0 |
| 10.0- | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 0 |

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TABLE-6 FREQUENCY DISTRIBUTION OF STABILITY CATEG

| CATEG | TOTL | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|----|------|
| A | 9 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 3 | 2 | 0 | 0 | 0 | 0 |
| A-B | 36 | 0 | 1 | 1 | 2 | 3 | 5 | 5 | 0 | 0 | 1 | 0 | 3 | 3 | 7 | 3 | 1 | 5 |
| B | 76 | 1 | 1 | 3 | 6 | 4 | 6 | 9 | 0 | 2 | 6 | 7 | 1 | 10 | 11 | 6 | 0 | 7 |
| B-C | 21 | 0 | 1 | 1 | 1 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 3 | 8 | 2 | 0 | 0 |
| C | 67 | 1 | 2 | 0 | 1 | 0 | 0 | 0 | 2 | 1 | 4 | 6 | 7 | 11 | 16 | 5 | 0 | 6 |
| C-D | 19 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 2 | 1 | 5 | 4 | 1 | 0 | 0 |
| D1 | 51 | 16 | 0 | 0 | 1 | 0 | 1 | 7 | 1 | 1 | 2 | 3 | 3 | 3 | 5 | 3 | 2 | 3 |
| D2 | 185 | 13 | 1 | 3 | 3 | 0 | 1 | 3 | 5 | 0 | 3 | 7 | 6 | 21 | 56 | 23 | 21 | 19 |
| E | 40 | 4 | 1 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 2 | 4 | 6 | 14 | 6 | 0 | 0 |
| F | 42 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 3 | 5 | 12 | 11 | 1 | 0 | 7 |
| G | 162 | 4 | 2 | 0 | 1 | 0 | 2 | 2 | 2 | 1 | 3 | 6 | 21 | 24 | 50 | 18 | 7 | 19 |
| LACK | 36 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 9 | 8 | 0 | 4 |
| TOTAL | 744 | 45 | 17 | 8 | 16 | 8 | 20 | 28 | 10 | 7 | 23 | 36 | 55 | 103 | 191 | 76 | 31 | 70 |

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TABLE-1 DAILY AVERAGES

| DATE | AIR TEMP. C, DEG | HUMIDITY PERCENT | PRECIPITAT. MM | SOLAR RAD. CAL/CM/DAY | NET RAD. CAL/CM/DAY | WIND SPD(5) M/S | WIND SPD(10) M/S | WIND SPD(20) M/S | WIND SPD(40) M/S |
|-------|---------------------|---------------------|-------------------|--------------------------|------------------------|--------------------|---------------------|---------------------|---------------------|
| 1 | 8.7 | 47.2 | 0.0 | 490.8 | -79.8 | 1.3 | 1.5 | 2.4 | 3.4 |
| 2 | 6.4 | 66.4 | 0.0 | 213.6 | -37.2 | 1.7 | 2.7 | 3.6 | 4.1 |
| 3 | 7.9 | 81.6 | 0.5 | 88.2 | -41.4 | 3.4 | 5.7 | 7.6 | 7.1 |
| 4 | 8.1 | 74.2 | 0.0 | 426.0 | -57.6 | 3.8 | 6.1 | 7.5 | 7.6 |
| 5 | 8.8 | 68.1 | 0.0 | 460.8 | -36.6 | 2.3 | 3.7 | 4.7 | 4.8 |
| 6 | 10.4 | 78.1 | 0.0 | 496.8 | -79.8 | 2.0 | 2.6 | 3.5 | 3.9 |
| 7 | 13.8 | 72.4 | 0.0 | 316.8 | -88.2 | 2.3 | 3.4 | 4.7 | 4.6 |
| 8 | 11.5 | 53.0 | 0.0 | 546.6 | -88.2 | 2.5 | 2.6 | 3.3 | 4.0 |
| 9 | 12.8 | 82.5 | 0.0 | 312.0 | -75.0 | 1.3 | 1.5 | 1.9 | 2.3 |
| 10 | 12.4 | 71.6 | 0.0 | 253.8 | -43.8 | 1.7 | 2.9 | 3.4 | 4.0 |
| 11 | 9.2 | 76.9 | 10.0 | 57.6 | 999.9 | 3.3 | 6.6 | 7.7 | 7.4 |
| 12 | 11.2 | 80.5 | 0.5 | 336.0 | -49.2 | 1.5 | 3.1 | 3.1 | 3.2 |
| 13 | 8.0 | 40.7 | 0.0 | 511.2 | -118.2 | 2.4 | 3.2 | 4.0 | 5.3 |
| 14 | 5.7 | 54.6 | 0.0 | 552.6 | -106.8 | 2.1 | 2.5 | 3.1 | 3.2 |
| 15 | 11.6 | 71.7 | 0.0 | 457.8 | -52.1 | 2.1 | 2.6 | 3.2 | 3.8 |
| 16 | 13.7 | 83.0 | 0.0 | 475.9 | 999.9 | 1.8 | 2.3 | 3.0 | 3.1 |
| 17 | 16.0 | 76.9 | 0.0 | 276.6 | -57.6 | 1.3 | 2.3 | 3.0 | 3.2 |
| 18 | 9.2 | 88.7 | 13.0 | 61.2 | -25.8 | 1.9 | 3.4 | 4.3 | 4.7 |
| 19 | 13.7 | 999.9 | 0.0 | 370.8 | -37.8 | 1.1 | 1.5 | 1.8 | 2.0 |
| 20 | 14.9 | 96.3 | 1.0 | 106.8 | -8.4 | 0.7 | 1.1 | 1.3 | 1.6 |
| 21 | 15.4 | 70.6 | 0.0 | 383.4 | -54.1 | 2.1 | 3.1 | 3.2 | 3.7 |
| 22 | 8.6 | 70.5 | 0.0 | 352.8 | -50.4 | 3.6 | 6.0 | 7.0 | 8.0 |
| 23 | 8.2 | 63.4 | 0.0 | 546.0 | -87.6 | 1.5 | 1.8 | 2.3 | 3.0 |
| 24 | 9.8 | 67.4 | 0.0 | 494.4 | -104.6 | 1.3 | 1.5 | 2.2 | 2.9 |
| 25 | 13.2 | 76.9 | 0.5 | 269.4 | 999.9 | 1.0 | 1.4 | 2.2 | 3.0 |
| 26 | 15.6 | 88.6 | 0.5 | 256.8 | 999.9 | 1.0 | 1.1 | 2.5 | 3.8 |
| 27 | 16.3 | 81.6 | 0.0 | 527.4 | -37.8 | 1.9 | 2.5 | 3.9 | 5.4 |
| 28 | 13.1 | 91.2 | 3.5 | 108.6 | -12.0 | 3.1 | 5.2 | 7.0 | 8.6 |
| 29 | 14.9 | 81.6 | 0.5 | 79.8 | -37.4 | 1.6 | 2.3 | 3.6 | 4.7 |
| 30 | 13.2 | 83.9 | 0.0 | 299.4 | -69.1 | 2.0 | 3.2 | 4.8 | 6.2 |
| MONTH | 11.4 | 74.4 | 30.0 | 337.2 | -57.3 | 2.0 | 3.0 | 3.9 | 4.4 |
| LACK | 0 | 12 | 0 | 1 | 59 | 1 | 1 | 1 | 1 |

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TABLE-2 HOURLY AVERAGES AND STANDARD DEVIATIONS

| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
|-----------------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| WIND SPD | | | | | | | | | | | | | | | | | | | | | | | | | |
| H=5M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 1.1 | 1.0 | 1.1 | 1.2 | 1.4 | 1.2 | 1.5 | 1.9 | 2.5 | 2.5 | 3.0 | 3.2 | 3.6 | 3.3 | 3.4 | 3.1 | 2.7 | 2.1 | 1.8 | 1.6 | 1.3 | 1.3 | 1.1 | 1.2 | |
| SIGMA | 1.1 | 1.2 | 1.1 | 1.3 | 1.5 | 1.4 | 1.3 | 1.3 | 1.1 | 0.9 | 1.1 | 1.1 | 1.1 | 1.3 | 1.7 | 1.6 | 1.3 | 1.2 | 1.2 | 1.4 | 1.3 | 1.6 | 1.2 | 1.3 | |
| H=10M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 2.2 | 2.1 | 2.0 | 2.3 | 2.2 | 2.2 | 2.3 | 2.9 | 3.5 | 3.6 | 3.7 | 4.0 | 4.2 | 4.1 | 4.1 | 4.2 | 3.6 | 3.4 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.2 | |
| SIGMA | 1.9 | 2.1 | 1.8 | 2.1 | 2.0 | 2.2 | 2.1 | 2.3 | 1.9 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 2.0 | 2.0 | 1.9 | 2.1 | 2.1 | 2.3 | 2.3 | 2.1 | 2.1 | 2.0 | |
| H=20M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 3.0 | 2.8 | 2.7 | 3.0 | 2.9 | 3.1 | 2.8 | 3.5 | 4.3 | 4.4 | 4.4 | 4.4 | 4.8 | 5.2 | 5.0 | 5.1 | 5.2 | 4.9 | 4.5 | 4.1 | 3.8 | 3.6 | 3.6 | 3.3 | 3.1 |
| SIGMA | 2.5 | 2.4 | 2.2 | 2.5 | 2.5 | 2.6 | 2.6 | 2.6 | 2.6 | 2.3 | 2.3 | 2.3 | 2.2 | 2.3 | 2.2 | 2.4 | 2.4 | 2.4 | 2.2 | 2.7 | 2.8 | 2.9 | 2.5 | 2.6 | |
| H=45M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 3.8 | 4.0 | 3.9 | 4.1 | 4.0 | 3.7 | 3.6 | 4.1 | 4.6 | 4.3 | 4.7 | 4.9 | 5.0 | 5.3 | 5.5 | 5.5 | 5.1 | 5.0 | 4.9 | 4.6 | 4.2 | 4.2 | 3.9 | 3.9 | |
| SIGMA | 2.2 | 2.2 | 1.8 | 2.2 | 2.6 | 2.5 | 2.6 | 3.0 | 2.9 | 2.6 | 2.5 | 2.4 | 2.1 | 2.2 | 2.6 | 2.5 | 2.7 | 2.4 | 2.3 | 2.6 | 2.8 | 2.3 | 2.4 | 2.6 | |
| TEMPERATURE | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | 8.2 | | 7.9 | | 13.0 | | | | 14.5 | | 14.6 | | | 12.8 | | | | 10.9 | | | 9.5 | |
| SIGMA | | | | 4.2 | | 4.0 | | 3.7 | | | | 3.6 | | 3.7 | | | 3.6 | | | | 3.7 | | | 4.3 | |
| HUMIDITY | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 84.7 | | | 83.6 | | 62.9 | | | 62.6 | | | 65.4 | | | 72.3 | | | | 79.6 | | | 85.2 | |
| SIGMA | | | 15.7 | | | 15.0 | | 20.8 | | | 20.8 | | | 19.6 | | | 18.1 | | | | 15.2 | | | 12.3 | |
| LAPSE RATE | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | 1.2 | | 1.1 | | -3.5 | | | -4.0 | | | -3.6 | | | -2.1 | | | | -0.2 | | | -0.0 | |
| SIGMA | | | | 3.8 | | 4.2 | | 1.1 | | | 1.3 | | | 1.0 | | | 0.4 | | | | 3.4 | | | 2.6 | |
| STABILITY RATIO | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | 1.5 | | 5.2 | | -0.6 | | | -0.4 | | | -0.5 | | | -1.1 | | | | -0.4 | | | 0.9 | |
| SIGMA | | | | 3.1 | | 13.5 | | 0.6 | | | 0.3 | | | 0.5 | | | 2.5 | | | | 1.9 | | | 2.0 | |
| RADIATION | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | -4.2 | -4.0 | -3.9 | -4.0 | -4.1 | -2.9 | 7.3 | 17.6 | 31.3 | 40.1 | 42.4 | 46.4 | 44.3 | 39.6 | 33.7 | 21.9 | 11.9 | -4.0 | -5.1 | -5.2 | -4.8 | -5.0 | -4.9 | -5.2 | |
| SIGMA | 3.0 | 2.7 | 2.9 | 2.7 | 2.8 | 2.3 | 4.9 | 9.9 | 15.3 | 21.3 | 23.8 | 26.6 | 25.9 | 20.5 | 18.1 | 12.8 | 11.0 | 2.8 | 3.1 | 3.2 | 3.0 | 3.0 | 2.9 | 3.0 | |

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TABLE-3 FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNF | NE | ENE | E | ESE | SE | SSF | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|-----|-----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|----|------|
| 10M | 61 | 53 | 86 | 97 | 34 | 21 | 16 | 7 | 17 | 24 | 5 | 28 | 25 | 30 | 77 | 69 | 38 | 32 |
| 45M | 10 | 70 | 166 | 44 | 32 | 16 | 13 | 28 | 17 | 11 | 34 | 19 | 19 | 39 | 125 | 36 | 21 | 20 |

TABLE-4 PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNF | NE | ENE | E | ESE | SE | SSF | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|------|
| 10M | 8.9 | 7.7 | 12.5 | 14.1 | 4.9 | 3.1 | 2.3 | 1.0 | 2.5 | 3.5 | 0.7 | 4.1 | 3.6 | 4.4 | 11.2 | 10.0 | 5.5 | 0.0 |
| 45M | 1.4 | 10.0 | 23.7 | 6.3 | 4.6 | 2.3 | 1.9 | 4.0 | 2.4 | 1.6 | 4.9 | 2.7 | 2.7 | 5.6 | 17.9 | 5.1 | 3.0 | 0.0 |

TABLE-5 FREQUENCY DISTRIBUTION OF WIND AND SPEED

| | TOTL | NNF | NE | ENE | E | ESE | SF | SSF | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|---------|------|-----|----|-----|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|------|
| 10M | | | | | | | | | | | | | | | | | | |
| -0.4 | 61 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 62 | 2 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 6 | 4 | 17 | 19 | 2 | 7 |
| 1.0-1.9 | 192 | 6 | 3 | 6 | 4 | 8 | 5 | 3 | 2 | 1 | 1 | 5 | 3 | 16 | 45 | 29 | 6 | 9 |
| 2.0-2.9 | 118 | 8 | 6 | 7 | 6 | 3 | 6 | 3 | 5 | 1 | 2 | 9 | 4 | 10 | 12 | 11 | 16 | 10 |
| 3.0-3.9 | 90 | 7 | 14 | 7 | 14 | 8 | 4 | 0 | 2 | 6 | 1 | 5 | 5 | 0 | 1 | 4 | 8 | 4 |
| 4.0-4.9 | 75 | 16 | 7 | 13 | 8 | 1 | 0 | 0 | 6 | 4 | 1 | 4 | 2 | 0 | 2 | 6 | 5 | 0 |
| 5.0-5.9 | 62 | 5 | 26 | 16 | 2 | 0 | 0 | 0 | 1 | 6 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 1 |
| 6.0-6.9 | 53 | 6 | 15 | 23 | 0 | 0 | 0 | 0 | 4 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.0-7.9 | 34 | 3 | 9 | 20 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| 8.0-8.9 | 8 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9.0-9.9 | 3 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.0- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45M | | | | | | | | | | | | | | | | | | |
| -0.4 | 10 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 12 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 1 | 2 | 0 | 1 | 5 | 0 | 0 | 0 |
| 1.0-1.9 | 76 | 2 | 1 | 1 | 4 | 3 | 1 | 3 | 1 | 3 | 2 | 5 | 5 | 5 | 27 | 9 | 2 | 2 |
| 2.0-2.9 | 109 | 2 | 2 | 6 | 5 | 4 | 3 | 0 | 1 | 6 | 3 | 10 | 16 | 30 | 10 | 6 | 1 | 1 |
| 3.0-3.9 | 135 | 10 | 16 | 5 | 16 | 6 | 5 | 2 | 1 | 6 | 6 | 6 | 3 | 14 | 35 | 5 | 7 | 0 |
| 4.0-4.9 | 107 | 9 | 12 | 18 | 14 | 2 | 3 | 5 | 6 | 1 | 4 | 2 | 1 | 2 | 17 | 7 | 2 | 2 |
| 5.0-5.9 | 71 | 10 | 14 | 8 | 2 | 0 | 0 | 7 | 9 | 0 | 3 | 1 | 0 | 1 | 5 | 2 | 2 | 11 |
| 6.0-6.9 | 54 | 12 | 14 | 4 | 0 | 0 | 0 | 5 | 1 | 0 | 4 | 0 | 0 | 0 | 3 | 3 | 2 | 2 |
| 7.0-7.9 | 53 | 9 | 28 | 4 | 0 | 0 | 0 | 1 | 3 | 0 | 7 | 0 | 0 | 0 | 3 | 0 | 0 | 0 |
| 8.0-8.9 | 51 | 10 | 39 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 9.0-9.9 | 28 | 6 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.0- | 15 | 0 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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TABLE-6 FREQUENCY DISTRIBUTION OF STABILITY CATEGORIES

| CATEG | TOTL | NNF | NE | ENE | E | ESE | SF | SSF | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-------|------|-----|-----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|----|------|
| A | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| A-B | 31 | 1 | 2 | 3 | 7 | 3 | 4 | 2 | 0 | 1 | 3 | 2 | 0 | 0 | 1 | 0 | 0 | 2 |
| B | 69 | 0 | 6 | 7 | 15 | 4 | 1 | 5 | 1 | 3 | 5 | 1 | 4 | 2 | 8 | 6 | 0 | 1 |
| B-C | 15 | 1 | 1 | 5 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| C | 55 | 1 | 12 | 10 | 1 | 0 | 3 | 12 | 1 | 0 | 2 | 1 | 1 | 2 | 6 | 2 | 0 | 1 |
| C-D | 21 | 0 | 8 | 5 | 3 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| D1 | 135 | 12 | 66 | 5 | 0 | 1 | 0 | 3 | 7 | 0 | 8 | 4 | 2 | 1 | 10 | 9 | 4 | 3 |
| D2 | 143 | 39 | 50 | 4 | 0 | 2 | 0 | 2 | 0 | 1 | 8 | 0 | 0 | 4 | 17 | 3 | 7 | 6 |
| E | 31 | 6 | 3 | 1 | 0 | 0 | 0 | 0 | 4 | 0 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 7 |
| F | 20 | 1 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 6 | 2 | 3 | 2 |
| G | 137 | 3 | 3 | 0 | 6 | 2 | 1 | 2 | 0 | 6 | 2 | 5 | 5 | 20 | 65 | 10 | 6 | 1 |
| LACK | 61 | 6 | 14 | 2 | 1 | 3 | 3 | 0 | 1 | 0 | 1 | 1 | 6 | 8 | 10 | 3 | 0 | 2 |
| TOTAL | 720 | 70 | 166 | 44 | 33 | 16 | 13 | 28 | 17 | 12 | 34 | 19 | 19 | 39 | 126 | 37 | 21 | 26 |

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TABLE-1 DAILY AVERAGES

| DATE | AIR TEMP. C, DEG | HUMIDITY % | PRECIPITATION MM | SOLAR RAD. CAL/CM ² /DAY | NET RAD. W/CM ² /DAY | WIND SPD(3) M/S | WIND SPD(10) M/S | WIND SPD(20) M/S | WIND SPD(40) M/S |
|-------|---------------------|---------------|---------------------|--|------------------------------------|--------------------|---------------------|---------------------|---------------------|
| 1 | 14.1 | 74.7 | 0.0 | 568.8 | -82.2 | 1.7 | 1.7 | 2.7 | 999.9 |
| 2 | 999.9 | 78.5 | 0.0 | 621.1 | 999.9 | 2.3 | 2.3 | 3.6 | 999.9 |
| 3 | 999.9 | 75.1 | 0.0 | 999.9 | 999.9 | 999.9 | 999.9 | 999.9 | 999.9 |
| 4 | 999.9 | 71.8 | 0.0 | 999.9 | -58.6 | 2.4 | 3.5 | 5.0 | 999.9 |
| 5 | 13.8 | 73.6 | 0.0 | 462.0 | -42.6 | 2.2 | 3.4 | 5.1 | 999.9 |
| 6 | 999.9 | 85.6 | 0.0 | 445.2 | 999.9 | 999.9 | 999.9 | 999.9 | 999.9 |
| 7 | 999.9 | 95.9 | 13.5 | 156.5 | 999.9 | 4.1 | 4.3 | 4.4 | 999.9 |
| 8 | 17.1 | 96.6 | 49.5 | 109.2 | 999.9 | 2.0 | 3.1 | 4.6 | 999.9 |
| 9 | 17.1 | 96.7 | 0.0 | 241.2 | 999.9 | 2.2 | 4.0 | 5.5 | 999.9 |
| 10 | 17.6 | 94.6 | 9.5 | 999.9 | 999.9 | 1.1 | 2.1 | 3.8 | 999.9 |
| 11 | 18.2 | 95.1 | 11.0 | 146.8 | 999.9 | 2.6 | 2.9 | 3.8 | 999.9 |
| 12 | 999.9 | 73.5 | 0.0 | 638.4 | -37.2 | 1.8 | 2.1 | 3.5 | 999.9 |
| 13 | 999.9 | 78.2 | 0.0 | 418.8 | -42.6 | 1.5 | 1.2 | 2.6 | 999.9 |
| 14 | 19.4 | 62.9 | 0.0 | 529.8 | 999.9 | 2.1 | 1.9 | 2.9 | 999.9 |
| 15 | 15.8 | 70.4 | 0.0 | 523.8 | -30.0 | 1.9 | 2.8 | 4.3 | 999.9 |
| 16 | 17.0 | 82.4 | 1.0 | 427.2 | 999.9 | 1.3 | 1.3 | 2.3 | 999.9 |
| 17 | 14.2 | 999.9 | 50.0 | 999.9 | 999.9 | 2.6 | 3.7 | 5.6 | 999.9 |
| 18 | 18.1 | 75.6 | 1.5 | 433.4 | 999.9 | 1.0 | 1.3 | 2.1 | 999.9 |
| 19 | 17.5 | 74.0 | 0.0 | 433.8 | -39.6 | 1.8 | 2.8 | 4.1 | 999.9 |
| 20 | 18.2 | 80.0 | 28.0 | 216.6 | 999.9 | 1.9 | 2.3 | 3.6 | 999.9 |
| 21 | 19.6 | 62.3 | 2.0 | 599.9 | 999.9 | 2.2 | 2.5 | 3.9 | 999.9 |
| 22 | 17.6 | 69.5 | 0.0 | 632.4 | 999.9 | 1.9 | 1.8 | 2.8 | 999.9 |
| 23 | 19.3 | 79.1 | 0.0 | 495.0 | 999.9 | 1.6 | 1.9 | 3.0 | 999.9 |
| 24 | 16.6 | 81.7 | 0.0 | 352.6 | -48.6 | 1.8 | 2.2 | 3.6 | 999.9 |
| 25 | 18.3 | 80.5 | 0.0 | 557.2 | 999.9 | 2.6 | 2.6 | 3.7 | 999.9 |
| 26 | 21.4 | 87.7 | 3.0 | 91.8 | 999.9 | 1.7 | 2.6 | 3.8 | 999.9 |
| 27 | 24.1 | 65.0 | 0.0 | 407.0 | 999.9 | 1.3 | 1.9 | 3.1 | 999.9 |
| 28 | 22.0 | 59.7 | 0.0 | 999.9 | 999.9 | 1.4 | 1.4 | 2.2 | 999.9 |
| 29 | 17.5 | 77.1 | 0.0 | 999.9 | 999.9 | 2.3 | 3.1 | 4.6 | 999.9 |
| 30 | 13.8 | 81.5 | 0.0 | 999.9 | 999.9 | 1.8 | 1.5 | 2.3 | 999.9 |
| 31 | 19.0 | 999.9 | 0.0 | 999.9 | 999.9 | 3.0 | 2.8 | 3.8 | 999.9 |
| MONTH | 17.7 | 79.1 | 169.0 | 422.1 | -47.3 | 2.0 | 2.4 | 3.6 | 999.9 |
| LACK | 40 | 21 | 7 | 106 | 275 | 79 | 79 | 79 | 744 |

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TABLE-2 HOURLY AVERAGES AND STANDARD DEVIATIONS

| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---------------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| WIND SPD | | | | | | | | | | | | | | | | | | | | | | | | |
| H= | | | | | | | | | | | | | | | | | | | | | | | | |
| 5M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 1.0 | 0.9 | 0.7 | 0.9 | 0.9 | 1.1 | 1.4 | 1.7 | 2.4 | 2.9 | 3.3 | 3.7 | 3.9 | 4.0 | 3.9 | 3.4 | 2.9 | 1.9 | 1.2 | 1.3 | 1.0 | 0.9 | 0.9 | 0.9 |
| SIGMA | 1.1 | 0.8 | 0.8 | 1.2 | 0.9 | 1.0 | 1.1 | 1.0 | 0.9 | 0.9 | 1.2 | 1.3 | 1.4 | 1.7 | 1.7 | 1.8 | 1.8 | 1.2 | 1.0 | 1.3 | 1.2 | 1.1 | 1.1 | 1.2 |
| 10M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 1.5 | 1.4 | 1.2 | 1.4 | 1.5 | 1.7 | 1.9 | 2.4 | 2.9 | 3.6 | 3.6 | 3.7 | 4.2 | 4.2 | 3.8 | 3.6 | 3.5 | 2.6 | 1.8 | 1.8 | 1.5 | 1.3 | 1.6 | 1.5 |
| SIGMA | 1.3 | 1.2 | 1.3 | 1.5 | 1.4 | 1.5 | 1.7 | 1.5 | 1.5 | 1.5 | 1.8 | 1.2 | 1.4 | 1.6 | 1.3 | 1.6 | 1.7 | 1.1 | 1.1 | 1.4 | 1.5 | 1.3 | 1.5 | 1.7 |
| 20M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 2.6 | 2.6 | 2.5 | 2.7 | 3.0 | 2.7 | 3.0 | 3.4 | 4.2 | 4.7 | 5.2 | 5.3 | 5.4 | 5.4 | 5.1 | 5.0 | 4.5 | 3.8 | 3.1 | 2.8 | 2.6 | 2.5 | 2.6 | 2.7 |
| SIGMA | 1.7 | 1.4 | 1.6 | 1.8 | 1.7 | 2.1 | 2.2 | 2.0 | 1.9 | 2.0 | 2.1 | 1.7 | 1.6 | 1.5 | 1.4 | 1.8 | 1.9 | 1.5 | 1.2 | 1.7 | 1.8 | 1.6 | 1.6 | 2.1 |
| 45M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |
| SIGMA | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |
| TEMPERATURE | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 14.7 | | | 15.9 | | | 19.4 | | | 20.2 | | | 19.9 | | | 18.2 | | | 16.8 | | | 15.9 |
| SIGMA | | | 2.8 | | | 2.2 | | | 3.2 | | | 3.8 | | | 3.8 | | | 3.1 | | | 2.8 | | | 2.5 |
| HUMIDITY | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 90.9 | | | 82.7 | | | 66.3 | | | 66.4 | | | 72.0 | | | 80.3 | | | 88.8 | | | 87.7 |
| SIGMA | | | 6.9 | | | 12.8 | | | 18.4 | | | 17.6 | | | 15.5 | | | 12.1 | | | 7.8 | | | 11.6 |
| LAPSE RATE | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | -4.4 | | | -6.8 | | | -3.6 | | | -3.8 | | | -3.4 | | | -2.1 | | | -0.2 | | | 0.4 |
| SIGMA | | | 27.3 | | | 26.7 | | | 1.0 | | | 1.2 | | | 0.9 | | | 0.7 | | | 2.8 | | | 2.9 |
| STABIL. RATIO | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | -14.0 | | | -8.6 | | | -1.3 | | | -0.4 | | | -0.4 | | | -0.5 | | | -0.5 | | | -0.1 |
| SIGMA | | | 35.9 | | | 29.5 | | | 2.8 | | | 0.4 | | | 0.3 | | | 0.7 | | | 1.0 | | | 3.8 |
| RADIATION | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | -3.9 | -3.7 | -3.6 | -3.8 | -3.4 | -1.4 | 13.1 | 26.7 | 40.2 | 49.9 | 54.6 | 56.1 | 53.8 | 47.3 | 37.6 | 26.6 | 15.1 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |
| SIGMA | 1.6 | 1.8 | 1.5 | 1.6 | 1.7 | 1.5 | 8.7 | 13.2 | 17.7 | 20.3 | 21.4 | 23.1 | 24.3 | 21.0 | 17.2 | 13.1 | 7.0 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 | 99.9 |

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TABLE-3 FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|-----|-----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|------|
| 10M | 95 | 116 | 61 | 27 | 17 | 16 | 27 | 67 | 34 | 25 | 24 | 11 | 13 | 43 | 20 | 10 | 26 | 112 |
| 45M | 22 | 38 | 119 | 66 | 25 | 23 | 32 | 74 | 34 | 28 | 32 | 21 | 7 | 19 | 58 | 19 | 15 | 112 |

TABLE-4 PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|------|------|------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 10M | 15.0 | 18.4 | 9.7 | 4.3 | 2.7 | 2.5 | 4.3 | 10.6 | 5.4 | 4.0 | 3.8 | 1.7 | 2.1 | 6.8 | 3.2 | 1.6 | 4.1 | 0.0 |
| 45M | 3.5 | 6.0 | 18.8 | 10.4 | 4.0 | 3.6 | 5.1 | 11.7 | 5.4 | 4.4 | 5.1 | 3.3 | 1.1 | 3.0 | 9.2 | 3.0 | 2.4 | 0.0 |

TABLE-5 FREQUENCY DISTRIBUTION OF WIND DIR. AND SPEED

| 10M | TOTL | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|---------|------|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|-----|----|-----|---|------|
| -0.4 | 95 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 74 | 4 | 3 | 7 | 2 | 2 | 1 | 1 | 1 | 3 | 3 | 3 | 6 | 19 | 6 | 4 | 3 | 6 |
| 1.0-1.9 | 110 | 10 | 3 | 3 | 8 | 7 | 3 | 4 | 7 | 4 | 7 | 4 | 6 | 20 | 9 | 2 | 4 | 9 |
| 2.0-2.9 | 110 | 14 | 8 | 4 | 4 | 4 | 11 | 10 | 10 | 6 | 6 | 4 | 1 | 3 | 4 | 1 | 7 | 13 |
| 3.0-3.9 | 134 | 46 | 16 | 11 | 3 | 3 | 7 | 16 | 13 | 6 | 4 | 0 | 0 | 1 | 1 | 1 | 3 | 3 |
| 4.0-4.9 | 70 | 20 | 14 | 2 | 0 | 0 | 3 | 17 | 1 | 2 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 7 |
| 5.0-5.9 | 50 | 14 | 11 | 0 | 0 | 0 | 2 | 12 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 3 | 3 |
| 6.0-6.9 | 12 | 3 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| 7.0-7.9 | 8 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| 8.0-8.9 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 9.0-9.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.0- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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TABLE-6 FREQUENCY DISTRIBUTION OF STABILITY CATEG.

| CATEG | TOTL | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-------|------|-----|-----|-----|----|-----|----|-----|----|-----|----|-----|---|-----|----|-----|----|------|
| A | 7 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 |
| A-B | 29 | 0 | 0 | 3 | 4 | 4 | 3 | 3 | 0 | 0 | 6 | 2 | 0 | 1 | 2 | 0 | 1 | 0 |
| B | 48 | 0 | 1 | 7 | 6 | 0 | 5 | 13 | 0 | 1 | 4 | 2 | 0 | 2 | 2 | 2 | 0 | 3 |
| B-C | 7 | 1 | 1 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| C | 52 | 0 | 15 | 8 | 2 | 1 | 1 | 12 | 4 | 3 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| C-D | 21 | 0 | 9 | 3 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1 | 60 | 0 | 25 | 2 | 1 | 0 | 3 | 12 | 6 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| D2 | 31 | 4 | 8 | 5 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 6 | 0 | 0 | 6 |
| E | 13 | 3 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 |
| F | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| G | 78 | 6 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 | 4 | 26 | 6 | 3 | 21 |
| LACK | 395 | 23 | 50 | 33 | 12 | 17 | 18 | 26 | 22 | 19 | 11 | 12 | 4 | 9 | 20 | 10 | 11 | 98 |
| TOTAL | 744 | 38 | 120 | 66 | 25 | 23 | 32 | 74 | 34 | 28 | 32 | 22 | 8 | 19 | 58 | 19 | 15 | 131 |

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TABLE-1 DAILY AVERAGES

| DATE | AIR TEMP. C. DEG | HUMIDITY PERCENT | PRECIPITAT. MM | SOLAR RAD. CAL/SQCM/DAY | NET RAD. CAL/SQCM/DAY | WIND SPD(5) M/S | WIND SPD(10) M/S | WIND SPD(20) M/S | WIND SPD(40) M/S |
|-------|---------------------|---------------------|-------------------|----------------------------|--------------------------|--------------------|---------------------|---------------------|---------------------|
| 1 | 17.3 | 999.9 | 48.5 | 125.4 | -0.6 | 1.3 | 1.9 | 2.8 | 3.6 |
| 2 | 16.9 | 78.0 | 0.0 | 594.0 | -24.6 | 2.1 | 2.0 | 2.7 | 3.1 |
| 3 | 999.9 | 999.9 | 0.0 | 301.2 | -34.8 | 1.1 | 1.2 | 1.6 | 2.1 |
| 4 | 21.1 | 999.9 | 0.0 | 600.6 | -47.4 | 1.6 | 1.5 | 2.2 | 2.4 |
| 5 | 17.7 | 999.9 | 0.0 | 349.2 | -28.4 | 1.4 | 1.1 | 1.6 | 1.7 |
| 6 | 17.5 | 84.7 | 0.0 | 598.2 | -34.8 | 1.4 | 1.7 | 2.3 | 2.7 |
| 7 | 19.3 | 72.5 | 0.0 | 655.8 | -41.4 | 1.6 | 1.8 | 2.2 | 2.7 |
| 8 | 20.4 | 71.7 | 0.0 | 646.2 | -57.6 | 2.0 | 2.0 | 2.9 | 3.5 |
| 9 | 19.9 | 79.9 | 0.0 | 642.0 | -36.0 | 2.5 | 2.1 | 3.1 | 3.4 |
| 10 | 21.6 | 77.2 | 0.0 | 357.0 | -25.2 | 1.5 | 1.7 | 2.6 | 2.9 |
| 11 | 20.3 | 86.6 | 0.0 | 175.8 | -9.6 | 0.7 | 0.8 | 1.3 | 1.7 |
| 12 | 17.6 | 92.6 | 0.0 | 144.6 | -6.6 | 1.4 | 1.9 | 3.0 | 3.3 |
| 13 | 21.7 | 81.6 | 0.0 | 498.2 | -17.4 | 1.4 | 1.2 | 2.1 | 2.3 |
| 14 | 23.6 | 999.9 | 0.0 | 238.2 | -10.8 | 1.0 | 1.0 | 1.7 | 2.0 |
| 15 | 17.6 | 999.9 | 35.5 | 71.4 | -9.6 | 2.1 | 3.0 | 4.3 | 5.1 |
| 16 | 15.6 | 999.9 | 17.0 | 81.6 | -13.2 | 2.3 | 3.0 | 4.6 | 5.3 |
| 17 | 15.6 | 87.5 | 1.5 | 217.4 | -11.4 | 0.8 | 0.9 | 1.3 | 1.9 |
| 18 | 18.5 | 84.0 | 0.0 | 228.6 | -5.4 | 1.4 | 1.1 | 1.7 | 2.2 |
| 19 | 19.1 | 94.7 | 34.0 | 124.2 | -3.0 | 1.5 | 1.9 | 2.8 | 3.7 |
| 20 | 20.7 | 93.1 | 1.0 | 313.8 | -7.8 | 1.3 | 1.2 | 2.3 | 2.6 |
| 21 | 20.6 | 90.0 | 1.5 | 178.8 | -13.8 | 0.8 | 0.9 | 1.5 | 1.8 |
| 22 | 19.2 | 89.4 | 0.0 | 243.6 | -16.2 | 1.7 | 2.4 | 3.2 | 3.6 |
| 23 | 18.7 | 90.0 | 0.0 | 281.4 | -26.4 | 1.1 | 1.2 | 1.8 | 2.3 |
| 24 | 999.9 | 90.9 | 0.0 | 412.8 | -15.0 | 1.2 | 1.3 | 2.1 | 2.3 |
| 25 | 21.0 | 999.9 | 4.0 | 80.4 | -7.2 | 0.5 | 0.7 | 1.4 | 1.8 |
| 26 | 21.3 | 999.9 | 1.5 | 246.0 | -22.2 | 0.8 | 1.0 | 1.3 | 1.5 |
| 27 | 20.8 | 999.9 | 0.0 | 383.4 | -27.0 | 0.7 | 1.2 | 1.7 | 1.8 |
| 28 | 23.2 | 999.9 | 0.0 | 631.8 | -43.2 | 2.1 | 2.7 | 3.9 | 4.0 |
| 29 | 999.9 | 999.9 | 0.0 | 584.4 | -23.4 | 2.6 | 4.0 | 5.5 | 5.0 |
| 30 | 999.9 | 88.0 | 0.0 | 134.4 | -7.8 | 2.6 | 2.4 | 3.2 | 3.5 |
| MONTH | 19.4 | 85.0 | 128.5 | 337.8 | -20.9 | 1.5 | 1.7 | 2.5 | 2.9 |
| LACK | 27 | 83 | 0 | 4 | 0 | 2 | 2 | 2 | 2 |

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TABLE-2 HOURLY AVERAGES AND STANDARD DEVIATIONS

| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
|-----------------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|--|
| WIND SPD | | | | | | | | | | | | | | | | | | | | | | | | | |
| H= | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 0.6 | 0.6 | 0.7 | 0.6 | 0.8 | 1.0 | 1.2 | 1.2 | 1.6 | 2.1 | 2.5 | 2.9 | 2.9 | 3.1 | 2.9 | 2.5 | 2.1 | 1.5 | 1.2 | 0.8 | 0.8 | 0.7 | 0.7 | 0.6 | |
| SIGMA | 0.8 | 0.7 | 0.7 | 0.7 | 0.7 | 0.8 | 0.7 | 0.9 | 1.1 | 1.2 | 1.4 | 1.4 | 1.5 | 1.5 | 1.3 | 1.3 | 1.2 | 1.1 | 1.2 | 1.1 | 1.0 | 0.9 | 0.9 | 0.8 | |
| 10M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 0.9 | 1.0 | 1.1 | 1.1 | 1.2 | 1.5 | 1.5 | 1.8 | 1.8 | 2.1 | 2.3 | 2.6 | 2.6 | 3.0 | 2.6 | 2.4 | 2.1 | 1.6 | 1.5 | 1.2 | 1.2 | 1.3 | 1.0 | 1.0 | |
| SIGMA | 1.2 | 1.2 | 1.3 | 1.2 | 1.1 | 1.0 | 1.0 | 1.4 | 1.4 | 1.7 | 1.1 | 1.1 | 1.3 | 1.7 | 0.9 | 1.2 | 1.1 | 1.3 | 1.6 | 1.5 | 1.4 | 1.5 | 1.3 | 1.2 | |
| 20M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 1.6 | 1.8 | 2.0 | 2.0 | 2.2 | 2.3 | 2.2 | 2.5 | 2.8 | 3.0 | 3.2 | 3.3 | 3.7 | 3.6 | 3.3 | 2.9 | 2.6 | 2.4 | 2.2 | 2.1 | 2.1 | 1.9 | 1.7 | 1.7 | |
| SIGMA | 1.8 | 1.7 | 1.6 | 1.5 | 1.3 | 1.5 | 1.4 | 1.6 | 1.8 | 1.4 | 1.4 | 1.6 | 1.4 | 1.7 | 1.4 | 1.6 | 1.5 | 1.8 | 2.3 | 2.1 | 1.9 | 1.9 | 1.9 | 1.7 | |
| 45M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 2.4 | 2.3 | 2.5 | 2.4 | 2.7 | 2.8 | 2.3 | 2.7 | 2.8 | 2.9 | 2.8 | 3.2 | 3.4 | 3.7 | 3.7 | 3.5 | 3.2 | 2.9 | 3.1 | 2.5 | 2.6 | 2.7 | 2.6 | 2.4 | |
| SIGMA | 1.8 | 1.8 | 1.6 | 1.6 | 1.4 | 1.7 | 1.6 | 1.7 | 1.7 | 1.6 | 1.4 | 1.6 | 1.6 | 1.9 | 1.6 | 1.8 | 1.7 | 2.1 | 2.5 | 2.1 | 2.1 | 2.0 | 2.0 | 1.7 | |
| TEMPERATURE | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | | | 16.9 | | | | | | | | | | | | | | | | | | | |
| SIGMA | | | | | | 2.5 | | | | | | | | | | | | | | | | | | | |
| HUMIDITY | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | | | 94.5 | | | | | | | | | | | | | | | | | | | |
| SIGMA | | | | | | 1.9 | | | | | | | | | | | | | | | | | | | |
| LAPSE RATE | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | | | -0.5 | | | | | | | | | | | | | | | | | | | |
| SIGMA | | | | | | 2.3 | | | | | | | | | | | | | | | | | | | |
| STABILITY RATIO | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | | | -1.1 | | | | | | | | | | | | | | | | | | | |
| SIGMA | | | | | | 4.8 | | | | | | | | | | | | | | | | | | | |
| RADIATION | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | -1.4 | -1.5 | -1.5 | -1.6 | -1.0 | -0.4 | 7.4 | 20.0 | 28.4 | 37.0 | 42.4 | 44.1 | 41.0 | 38.9 | 32.4 | 25.7 | 14.6 | 4.5 | -2.1 | -2.7 | -2.4 | -2.2 | -2.1 | -1.8 | |
| SIGMA | 1.4 | 1.4 | 1.4 | 1.4 | 0.9 | 0.5 | 6.8 | 15.4 | 20.2 | 25.4 | 26.6 | 27.7 | 27.2 | 23.3 | 18.1 | 14.4 | 9.2 | 2.7 | 1.8 | 2.2 | 1.9 | 1.7 | 1.5 | 1.4 | |

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TABLE-3 FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|------|
| 10M | 137 | 79 | 65 | 59 | 36 | 9 | 21 | 42 | 14 | 18 | 26 | 31 | 42 | 48 | 9 | 8 | 13 | 63 |
| 45M | 51 | 11 | 97 | 69 | 49 | 40 | 33 | 54 | 31 | 18 | 31 | 21 | 41 | 40 | 76 | 30 | 14 | 14 |

TABLE-4 PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|------|
| 10M | 20.9 | 12.0 | 9.9 | 9.0 | 5.5 | 1.4 | 3.2 | 6.4 | 2.1 | 2.7 | 4.0 | 4.7 | 6.4 | 7.3 | 1.4 | 1.2 | 2.0 | 0.0 |
| 45M | 7.2 | 1.6 | 13.7 | 9.8 | 6.9 | 5.7 | 4.7 | 7.6 | 4.4 | 2.5 | 4.4 | 3.0 | 5.8 | 5.7 | 10.8 | 4.2 | 2.0 | 0.0 |

TABLE-5 FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

| | TOTL | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|---------|------|-----|----|-----|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|------|
| 10M | | | | | | | | | | | | | | | | | | |
| -0.4 | 137 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 94 | 1 | 4 | 8 | 2 | 0 | 2 | 2 | 9 | 4 | 7 | 8 | 16 | 14 | 4 | 3 | 4 | 6 |
| 1.0-1.9 | 213 | 18 | 21 | 29 | 13 | 3 | 4 | 8 | 4 | 9 | 14 | 17 | 20 | 24 | 2 | 3 | 5 | 19 |
| 2.0-2.9 | 118 | 15 | 13 | 16 | 10 | 3 | 7 | 14 | 1 | 4 | 3 | 5 | 6 | 6 | 2 | 2 | 1 | 10 |
| 3.0-3.9 | 93 | 22 | 17 | 6 | 8 | 3 | 5 | 11 | 0 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 8 |
| 4.0-4.9 | 38 | 13 | 8 | 0 | 1 | 0 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| 5.0-5.9 | 19 | 7 | 2 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 6.0-6.9 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.0-7.9 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.0-8.9 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9.0-9.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.0- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45M | | | | | | | | | | | | | | | | | | |
| -0.4 | 51 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 38 | 0 | 2 | 4 | 1 | 2 | 4 | 4 | 1 | 3 | 3 | 2 | 4 | 3 | 2 | 2 | 1 | 0 |
| 1.0-1.9 | 128 | 1 | 5 | 11 | 15 | 5 | 5 | 10 | 1 | 6 | 11 | 5 | 7 | 12 | 21 | 8 | 5 | 0 |
| 2.0-2.9 | 186 | 6 | 8 | 14 | 17 | 15 | 15 | 12 | 8 | 7 | 11 | 6 | 17 | 14 | 18 | 15 | 3 | 0 |
| 3.0-3.9 | 133 | 1 | 16 | 13 | 2 | 11 | 7 | 18 | 8 | 1 | 3 | 6 | 8 | 10 | 20 | 3 | 1 | 5 |
| 4.0-4.9 | 82 | 2 | 20 | 11 | 9 | 3 | 2 | 5 | 6 | 0 | 1 | 2 | 4 | 1 | 10 | 0 | 3 | 3 |
| 5.0-5.9 | 49 | 0 | 17 | 10 | 5 | 4 | 0 | 3 | 4 | 0 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 3 |
| 6.0-6.9 | 27 | 1 | 12 | 3 | 0 | 0 | 0 | 2 | 3 | 1 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 |
| 7.0-7.9 | 13 | 0 | 8 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 |
| 8.0-8.9 | 5 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 9.0-9.9 | 4 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.0- | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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TABLE-6 FREQUENCY DISTRIBUTION OF STABILITY CATEGORIES

| CATEG | TOTL | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|------|
| A | 10 | 0 | 0 | 0 | 0 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 0 | 0 |
| A=B | 52 | 0 | 0 | 4 | 8 | 11 | 9 | 10 | 1 | 0 | 0 | 0 | 5 | 0 | 1 | 1 | 0 | 2 |
| B | 85 | 0 | 2 | 8 | 10 | 6 | 10 | 21 | 7 | 2 | 8 | 1 | 3 | 2 | 3 | 1 | 0 | 1 |
| B=C | 23 | 0 | 3 | 6 | 2 | 2 | 1 | 2 | 2 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 1 |
| C | 42 | 0 | 7 | 7 | 5 | 0 | 3 | 6 | 8 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 2 |
| C=D | 5 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1 | 139 | 5 | 31 | 15 | 10 | 6 | 5 | 6 | 5 | 5 | 6 | 5 | 8 | 9 | 6 | 3 | 4 | 10 |
| D2 | 258 | 4 | 45 | 18 | 7 | 11 | 0 | 5 | 6 | 8 | 11 | 9 | 20 | 22 | 37 | 18 | 9 | 28 |
| E | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| F | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| G | 95 | 2 | 5 | 10 | 8 | 2 | 5 | 2 | 1 | 2 | 5 | 5 | 4 | 4 | 25 | 7 | 2 | 6 |
| LACK | 4 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| TOTAL | 720 | 11 | 98 | 71 | 50 | 41 | 35 | 54 | 31 | 18 | 32 | 21 | 42 | 40 | 77 | 32 | 15 | 52 |

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TABLE-1 DAILY AVERAGES

| DATE | AIR TEMP. C/DEG | HUMIDITY PERCENT | PRECIPITATION MM | SOLAR RAD. CAL/SQCM/DAY | NET RAD. CAL/SQCM/DAY | WIND SPD(5) M/S | WIND SPD(10) M/S | WIND SPD(20) M/S | WIND SPD(40) M/S |
|-------|-----------------|------------------|------------------|-------------------------|-----------------------|-----------------|------------------|------------------|------------------|
| 1 | 19.7 | 94.8 | 29.0 | 124.2 | 999.9 | 2.1 | 3.2 | 4.1 | 4.8 |
| 2 | 19.8 | 90.5 | 16.0 | 223.2 | 999.9 | 3.3 | 5.8 | 7.5 | 7.3 |
| 3 | 19.6 | 83.2 | 0.0 | 411.0 | -12.6 | 1.5 | 2.2 | 2.9 | 2.6 |
| 4 | 21.0 | 87.9 | 0.0 | 341.8 | 999.9 | 1.6 | 1.8 | 2.3 | 2.4 |
| 5 | 20.2 | 93.5 | 1.5 | 297.0 | 999.9 | 2.2 | 4.2 | 5.4 | 5.5 |
| 6 | 19.5 | 95.6 | 12.0 | 147.2 | 999.9 | 3.0 | 5.2 | 7.0 | 7.9 |
| 7 | 18.7 | 86.1 | 1.0 | 394.0 | 999.9 | 3.0 | 5.3 | 7.0 | 7.5 |
| 8 | 18.5 | 86.1 | 0.0 | 390.1 | -14.5 | 2.3 | 3.9 | 5.0 | 5.0 |
| 9 | 20.1 | 88.2 | 0.0 | 457.8 | -13.4 | 1.7 | 2.7 | 3.8 | 3.5 |
| 10 | 21.3 | 46.1 | 0.0 | 270.6 | -7.8 | 1.9 | 3.3 | 4.5 | 4.6 |
| 11 | 21.3 | 68.9 | 1.0 | 264.6 | 999.9 | 2.0 | 3.2 | 4.1 | 4.3 |
| 12 | 25.8 | 81.2 | 0.0 | 522.0 | -30.7 | 1.3 | 1.6 | 2.3 | 2.7 |
| 13 | 23.7 | 74.1 | 0.0 | 322.8 | -23.4 | 1.6 | 1.6 | 2.1 | 2.5 |
| 14 | 22.2 | 85.9 | 0.0 | 253.2 | -14.5 | 1.4 | 1.8 | 2.6 | 2.9 |
| 15 | 23.5 | 82.0 | 0.0 | 423.6 | -31.5 | 1.5 | 1.8 | 2.4 | 3.0 |
| 16 | 24.5 | 999.9 | 0.0 | 343.8 | -25.2 | 1.2 | 1.3 | 1.8 | 2.0 |
| 17 | 23.8 | 999.9 | 0.0 | 140.4 | -19.6 | 1.2 | 1.2 | 2.2 | 1.9 |
| 18 | 26.1 | 999.9 | 0.0 | 427.8 | -22.2 | 1.4 | 1.3 | 2.0 | 2.2 |
| 19 | 26.2 | 999.9 | 3.5 | 330.6 | -30.7 | 0.9 | 1.2 | 2.2 | 2.6 |
| 20 | 26.6 | 999.9 | 0.0 | 505.2 | -21.1 | 2.1 | 1.8 | 2.6 | 2.9 |
| 21 | 26.3 | 999.9 | 0.0 | 528.6 | -24.7 | 2.1 | 1.9 | 2.7 | 3.3 |
| 22 | 25.8 | 88.0 | 0.0 | 539.4 | -36.0 | 1.3 | 1.3 | 2.2 | 3.1 |
| 23 | 27.3 | 79.5 | 0.0 | 574.2 | -34.2 | 2.4 | 2.4 | 3.1 | 4.6 |
| 24 | 27.0 | 80.9 | 0.0 | 556.2 | -42.8 | 2.1 | 2.1 | 3.0 | 4.2 |
| 25 | 26.3 | 82.0 | 0.0 | 522.6 | -42.1 | 2.5 | 2.1 | 2.9 | 4.0 |
| 26 | 26.0 | 84.9 | 0.0 | 613.8 | -28.2 | 2.5 | 2.5 | 3.1 | 4.4 |
| 27 | 26.3 | 82.2 | 0.0 | 523.8 | -27.7 | 2.3 | 2.1 | 2.9 | 3.1 |
| 28 | 26.4 | 80.5 | 0.0 | 496.8 | -40.9 | 1.9 | 2.1 | 2.7 | 4.0 |
| 29 | 27.2 | 85.1 | 0.0 | 510.6 | -28.8 | 1.6 | 1.6 | 2.3 | 3.3 |
| 30 | 27.3 | 77.7 | 0.0 | 356.4 | -24.0 | 1.5 | 2.4 | 3.7 | 4.9 |
| 31 | 27.2 | 999.9 | 0.0 | 276.6 | -24.0 | 1.2 | 2.2 | 3.3 | 4.4 |
| MONTH | 23.7 | 82.8 | 64.0 | 394.4 | -24.8 | 1.9 | 2.5 | 3.4 | 4.0 |
| LACK | 2 | 44 | 0 | 8 | 69 | 0 | 0 | 0 | 4 |

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TABLE-2 HOURLY AVERAGES AND STANDARD DEVIATIONS

| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| WIND SPD | | | | | | | | | | | | | | | | | | | | | | | | |
| H= | | | | | | | | | | | | | | | | | | | | | | | | |
| 3M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.1 | 1.3 | 1.7 | 2.0 | 2.3 | 2.9 | 3.4 | 3.3 | 3.7 | 3.8 | 3.6 | 2.7 | 2.1 | 1.7 | 1.3 | 1.2 | 1.0 | 0.9 | 1.0 |
| SIGMA | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.8 | 1.0 | 1.1 | 1.3 | 1.6 | 1.6 | 1.5 | 1.5 | 1.3 | 1.1 | 1.0 | 1.0 | 1.0 | 0.9 | 0.9 | 0.9 |
| 10M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 1.5 | 1.6 | 1.6 | 1.6 | 1.7 | 1.8 | 2.1 | 2.4 | 2.9 | 3.2 | 3.7 | 3.7 | 4.0 | 4.0 | 3.8 | 3.3 | 2.6 | 2.4 | 2.1 | 1.9 | 1.8 | 1.6 | 1.6 | 1.7 |
| SIGMA | 1.6 | 1.6 | 1.6 | 1.5 | 1.7 | 1.6 | 1.5 | 1.5 | 1.5 | 1.6 | 1.4 | 1.5 | 1.5 | 1.4 | 1.6 | 1.5 | 1.6 | 1.6 | 1.7 | 1.8 | 1.8 | 1.8 | 1.6 | 1.6 |
| 20M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 2.4 | 2.6 | 2.7 | 2.5 | 2.7 | 2.7 | 2.9 | 3.2 | 3.7 | 3.6 | 4.1 | 4.5 | 4.6 | 4.9 | 4.9 | 4.7 | 4.2 | 3.6 | 3.4 | 3.1 | 2.8 | 2.6 | 2.5 | 2.8 |
| SIGMA | 1.8 | 2.0 | 2.0 | 1.9 | 2.1 | 2.0 | 1.8 | 1.9 | 1.9 | 2.1 | 1.8 | 1.8 | 1.9 | 1.6 | 1.7 | 1.7 | 2.1 | 1.8 | 2.0 | 2.2 | 2.1 | 2.1 | 1.9 | 1.7 |
| 45M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 3.2 | 3.5 | 3.3 | 3.4 | 3.5 | 3.2 | 3.2 | 3.7 | 3.9 | 4.0 | 4.4 | 4.8 | 4.8 | 5.1 | 5.4 | 5.1 | 4.8 | 4.2 | 4.0 | 3.8 | 3.5 | 3.3 | 3.3 | 3.7 |
| SIGMA | 1.8 | 1.9 | 1.9 | 2.1 | 2.1 | 2.1 | 2.0 | 2.0 | 2.0 | 2.0 | 1.8 | 2.0 | 1.9 | 2.0 | 2.0 | 2.0 | 2.1 | 2.0 | 2.1 | 2.2 | 2.1 | 2.0 | 1.7 | 1.7 |
| TEMPERATURE | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 21.7 | | | 22.1 | | 25.3 | | | 26.3 | | | 25.8 | | | 23.9 | | | 22.9 | | | 22.3 | |
| SIGMA | | | | | 2.3 | | 4.2 | | 4.3 | | | | 4.0 | | | 3.5 | | | 2.7 | | | 2.3 | | |
| HUMIDITY | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | | 88.0 | | 79.6 | | 74.4 | | | | 75.7 | | | 83.0 | | | 86.0 | | | 87.8 | | |
| SIGMA | | | | | | 10.9 | | 19.3 | | | | 18.2 | | | 18.2 | | | 18.4 | | | 18.5 | | | |
| LAPSE RATE | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | | | | | | | | | | | | | | | | | | | | | |
| SIGMA | | | | | | | | | | | | | | | | | | | | | | | | |
| STABILITY RATIO | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | | | | | | | | | | | | | | | | | | | | | |
| SIGMA | | | | | | | | | | | | | | | | | | | | | | | | |
| RADIATION | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | -2.1 | -1.8 | -1.7 | -1.5 | -1.0 | -0.7 | 9.8 | 20.2 | 33.1 | 43.0 | 49.6 | 53.4 | 53.1 | 45.9 | 38.2 | 28.2 | 14.3 | -2.3 | -2.0 | -2.4 | -2.4 | -2.4 | -2.3 | -2.4 |
| SIGMA | 1.1 | 1.1 | 1.0 | 0.9 | 0.6 | 1.1 | 6.9 | 10.8 | 15.6 | 18.1 | 21.2 | 21.3 | 20.6 | 19.2 | 16.6 | 13.5 | 7.4 | 1.1 | 1.2 | 1.3 | 1.2 | 1.1 | 1.1 | 1.0 |

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TABLE-3 FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|-----|-----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|------|
| 10M | 57 | 177 | 36 | 11 | 11 | 5 | 23 | 70 | 17 | 41 | 33 | 25 | 26 | 13 | 4 | 3 | 47 | 147 |
| 45M | 10 | 16 | 178 | 66 | 20 | 13 | 16 | 48 | 83 | 26 | 51 | 37 | 62 | 32 | 25 | 14 | 1 | 46 |

TABLE-4 PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|------|------|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 10M | 9.5 | 29.6 | 6.0 | 1.8 | 1.8 | 0.8 | 3.9 | 11.7 | 2.8 | 6.9 | 5.5 | 3.9 | 4.4 | 2.2 | 0.7 | 0.5 | 7.9 | 0.0 |
| 45M | 1.4 | 2.3 | 25.5 | 9.5 | 2.9 | 1.9 | 2.3 | 6.9 | 11.9 | 3.7 | 7.3 | 5.3 | 8.9 | 4.6 | 3.6 | 2.0 | 0.1 | 0.0 |

TABLE-5 FREQUENCY DISTRIBUTION OF W. DIR. AND SPEED

| | TOTL | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|---------|------|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|---|------|
| 10M | | | | | | | | | | | | | | | | | | |
| -0.4 | 57 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 119 | 4 | 3 | 5 | 5 | 2 | 2 | 5 | 7 | 8 | 9 | 7 | 14 | 7 | 3 | 2 | 1 | 35 |
| 1.0-1.9 | 164 | 10 | 15 | 4 | 3 | 1 | 7 | 11 | 6 | 9 | 9 | 9 | 9 | 5 | 1 | 1 | 6 | 58 |
| 2.0-2.9 | 121 | 18 | 9 | 2 | 3 | 2 | 9 | 16 | 3 | 11 | 6 | 6 | 2 | 1 | 0 | 0 | 6 | 27 |
| 3.0-3.9 | 119 | 54 | 6 | 0 | 0 | 0 | 4 | 15 | 1 | 7 | 6 | 1 | 1 | 0 | 0 | 0 | 9 | 15 |
| 4.0-4.9 | 80 | 43 | 3 | 0 | 0 | 0 | 1 | 15 | 0 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 5 | 5 |
| 5.0-5.9 | 46 | 27 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 4 |
| 6.0-6.9 | 29 | 16 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 3 |
| 7.0-7.9 | 9 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 |
| 8.0-8.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9.0-9.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.0- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45M | | | | | | | | | | | | | | | | | | |
| -0.4 | 10 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 19 | 1 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 2 | 0 | 3 | 1 | 1 | 3 | 4 | 0 | 0 |
| 1.0-1.9 | 74 | 2 | 5 | 2 | 5 | 3 | 1 | 2 | 5 | 5 | 3 | 3 | 9 | 8 | 5 | 1 | 6 | 15 |
| 2.0-2.9 | 118 | 3 | 7 | 12 | 10 | 4 | 9 | 9 | 10 | 3 | 10 | 5 | 7 | 6 | 8 | 5 | 1 | 9 |
| 3.0-3.9 | 176 | 2 | 20 | 19 | 2 | 5 | 4 | 14 | 20 | 8 | 14 | 12 | 25 | 11 | 6 | 3 | 0 | 11 |
| 4.0-4.9 | 109 | 4 | 25 | 14 | 1 | 1 | 0 | 8 | 17 | 5 | 5 | 7 | 17 | 5 | 3 | 1 | 0 | 6 |
| 5.0-5.9 | 89 | 2 | 36 | 5 | 0 | 0 | 0 | 10 | 17 | 3 | 9 | 3 | 2 | 1 | 0 | 0 | 0 | 1 |
| 6.0-6.9 | 64 | 2 | 28 | 6 | 0 | 0 | 0 | 5 | 12 | 0 | 7 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| 7.0-7.9 | 34 | 0 | 15 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.0-8.9 | 30 | 0 | 24 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9.0-9.9 | 14 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.0- | 3 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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TABLE-6 FREQUENCY DISTRIBUTION OF STABILITY CATEG.

| | TOTL | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-------|------|-----|-----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|---|------|
| CATEG | | | | | | | | | | | | | | | | | | |
| A | 8 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| A-B | 54 | 1 | 0 | 3 | 3 | 2 | 6 | 14 | 7 | 0 | 2 | 3 | 6 | 2 | 0 | 0 | 0 | 5 |
| B | 72 | 0 | 0 | 10 | 3 | 6 | 3 | 13 | 11 | 0 | 7 | 6 | 5 | 1 | 2 | 0 | 0 | 5 |
| B-C | 23 | 0 | 5 | 7 | 0 | 0 | 0 | 1 | 4 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 3 |
| C | 67 | 0 | 13 | 11 | 1 | 0 | 0 | 9 | 21 | 0 | 0 | 1 | 5 | 0 | 1 | 0 | 0 | 5 |
| C-D | 23 | 0 | 10 | 2 | 0 | 0 | 0 | 2 | 8 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1 | 86 | 1 | 41 | 9 | 1 | 1 | 0 | 4 | 12 | 13 | 14 | 7 | 17 | 16 | 13 | 9 | 1 | 18 |
| D2 | 211 | 13 | 55 | 9 | 8 | 1 | 1 | 4 | 12 | 13 | 14 | 7 | 17 | 16 | 13 | 9 | 1 | 18 |
| E | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| G | 114 | 1 | 3 | 3 | 3 | 3 | 4 | 2 | 6 | 11 | 11 | 13 | 23 | 7 | 5 | 4 | 1 | 14 |
| LACK | 77 | 0 | 51 | 12 | 1 | 0 | 1 | 2 | 2 | 0 | 1 | 3 | 2 | 2 | 0 | 0 | 0 | 0 |
| TOTAL | 744 | 16 | 178 | 66 | 20 | 13 | 16 | 49 | 83 | 26 | 51 | 37 | 63 | 32 | 25 | 14 | 3 | 52 |

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TABLE-1 DAILY AVERAGES

| DATE | AIR TEMP. C/DEG | HUMIDITY PERCENT | PRECIPITAT. MM | SOLAR RAD. CAL/CM/DAY | NET RAD. CAL/CM/DAY | WIND SPD(5) M/S | WIND SPD(10) M/S | WIND SPD(20) M/S | WIND SPD(40) M/S |
|-------|--------------------|---------------------|-------------------|--------------------------|------------------------|--------------------|---------------------|---------------------|---------------------|
| 1 | 28.2 | 999.9 | 0.0 | 433.2 | -26.5 | 1.3 | 1.6 | 2.9 | 3.2 |
| 2 | 24.8 | 999.9 | 0.0 | 230.4 | -18.2 | 1.5 | 2.5 | 3.7 | 4.2 |
| 3 | 21.8 | 999.9 | 1.0 | 207.0 | -8.4 | 2.0 | 3.9 | 5.0 | 5.4 |
| 4 | 25.3 | 999.9 | 0.0 | 338.4 | -22.8 | 1.2 | 1.2 | 1.9 | 2.5 |
| 5 | 26.8 | 999.9 | 0.0 | 546.0 | -21.7 | 1.6 | 1.5 | 2.4 | 2.6 |
| 6 | 25.6 | 999.9 | 1.0 | 386.4 | -12.3 | 1.6 | 1.9 | 2.8 | 2.9 |
| 7 | 23.4 | 999.9 | 3.5 | 177.0 | -12.0 | 0.9 | 1.5 | 2.4 | 2.7 |
| 8 | 23.4 | 85.8 | 0.0 | 573.0 | -36.0 | 1.3 | 2.1 | 2.8 | 3.1 |
| 9 | 23.5 | 85.7 | 0.0 | 514.8 | -50.4 | 1.5 | 2.2 | 3.8 | 4.0 |
| 10 | 22.4 | 85.1 | 0.0 | 556.8 | -55.2 | 1.4 | 1.6 | 2.6 | 2.9 |
| 11 | 23.3 | 81.7 | 0.0 | 458.4 | -42.6 | 1.6 | 1.3 | 2.1 | 2.5 |
| 12 | 22.7 | 85.2 | 6.0 | 424.2 | -27.1 | 1.7 | 2.1 | 3.1 | 3.4 |
| 13 | 24.0 | 75.0 | 15.0 | 491.4 | -27.7 | 2.0 | 2.2 | 3.8 | 4.2 |
| 14 | 27.0 | 999.9 | 0.0 | 419.4 | -33.6 | 1.1 | 1.6 | 2.7 | 3.2 |
| 15 | 27.8 | 75.8 | 3.0 | 410.4 | -16.8 | 2.8 | 3.2 | 3.9 | 4.3 |
| 16 | 28.1 | 76.1 | 0.0 | 423.0 | -18.6 | 2.2 | 3.2 | 4.1 | 4.6 |
| 17 | 23.8 | 88.6 | 0.0 | 411.0 | -10.8 | 2.0 | 2.8 | 3.2 | 3.8 |
| 18 | 23.3 | 999.9 | 0.5 | 337.2 | -13.9 | 2.1 | 3.2 | 4.7 | 5.0 |
| 19 | 24.2 | 91.8 | 1.0 | 267.0 | 999.9 | 2.0 | 3.8 | 5.2 | 5.6 |
| 20 | 26.6 | 85.4 | 3.0 | 393.0 | -21.1 | 2.8 | 3.1 | 4.5 | 4.6 |
| 21 | 25.5 | 90.7 | 3.0 | 299.2 | -25.8 | 2.4 | 2.0 | 2.9 | 3.5 |
| 22 | 26.7 | 999.9 | 0.0 | 377.4 | -34.8 | 3.3 | 3.0 | 4.2 | 4.6 |
| 23 | 26.0 | 84.6 | 0.0 | 400.2 | -29.4 | 2.1 | 1.6 | 2.7 | 3.4 |
| 24 | 25.8 | 83.0 | 0.0 | 544.2 | -30.7 | 2.0 | 1.7 | 2.4 | 3.1 |
| 25 | 25.6 | 85.0 | 0.0 | 555.0 | -32.4 | 1.6 | 1.4 | 2.2 | 2.4 |
| 26 | 25.4 | 87.0 | 0.0 | 529.8 | -14.5 | 1.4 | 1.3 | 1.8 | 2.2 |
| 27 | 25.5 | 88.5 | 0.0 | 562.8 | -39.0 | 1.2 | 1.4 | 2.2 | 2.4 |
| 28 | 25.2 | 85.5 | 0.0 | 541.8 | -25.2 | 2.2 | 3.8 | 4.6 | 5.3 |
| 29 | 26.8 | 82.4 | 0.5 | 315.0 | -18.6 | 2.0 | 3.6 | 4.9 | 5.5 |
| 30 | 22.5 | 81.0 | 1.5 | 60.0 | -15.7 | 2.6 | 4.3 | 6.6 | 7.4 |
| 31 | 22.8 | 82.0 | 0.0 | 317.4 | -8.4 | 1.0 | 0.9 | 1.5 | 1.8 |
| MONTH | 25.0 | 80.8 | 39.0 | 403.1 | -25.0 | 1.8 | 2.3 | 3.3 | 3.7 |
| LACK | 0 | 60 | 0 | 0 | 20 | 0 | 0 | 0 | 0 |

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TABLE-2 HOURLY AVERAGES AND STANDARD DEVIATIONS

| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---------------------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| WIND SPD | | | | | | | | | | | | | | | | | | | | | | | | |
| 5M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 0.9 | 0.8 | 0.9 | 0.8 | 0.9 | 1.0 | 1.4 | 1.7 | 2.0 | 2.6 | 2.8 | 3.3 | 3.5 | 3.6 | 3.6 | 3.2 | 2.4 | 1.9 | 1.5 | 1.2 | 1.1 | 0.9 | 0.9 | 1.0 |
| SIGMA | 0.9 | 0.9 | 1.0 | 0.9 | 1.0 | 1.0 | 1.1 | 1.1 | 1.1 | 0.9 | 1.2 | 1.1 | 1.3 | 1.5 | 1.6 | 1.3 | 1.4 | 1.3 | 1.1 | 1.1 | 1.2 | 0.8 | 1.0 | 1.0 |
| 10M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 1.6 | 1.5 | 1.6 | 1.4 | 1.2 | 1.4 | 1.9 | 2.2 | 2.5 | 2.7 | 3.1 | 3.3 | 3.6 | 3.7 | 3.8 | 3.8 | 3.0 | 2.5 | 2.1 | 2.0 | 1.8 | 1.5 | 1.7 | 1.6 |
| SIGMA | 1.7 | 1.5 | 1.6 | 1.3 | 1.3 | 1.4 | 1.6 | 1.4 | 1.5 | 1.4 | 1.3 | 1.1 | 1.1 | 1.2 | 1.5 | 1.5 | 1.5 | 1.6 | 1.5 | 1.5 | 1.6 | 1.4 | 1.5 | 1.6 |
| 20M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 2.7 | 2.5 | 2.5 | 2.6 | 2.0 | 2.3 | 2.6 | 3.1 | 3.2 | 3.8 | 3.8 | 4.4 | 4.8 | 5.0 | 5.1 | 5.0 | 4.3 | 3.7 | 3.1 | 3.0 | 2.9 | 2.6 | 2.6 | 2.6 |
| SIGMA | 2.1 | 2.0 | 2.0 | 1.7 | 1.9 | 2.2 | 2.0 | 2.0 | 1.7 | 1.7 | 1.7 | 1.5 | 1.6 | 1.5 | 1.7 | 2.0 | 1.8 | 1.6 | 1.7 | 1.7 | 1.8 | 1.9 | 2.0 | 2.0 |
| 45M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 3.6 | 3.2 | 3.3 | 3.2 | 3.1 | 2.9 | 3.0 | 3.3 | 3.3 | 3.5 | 4.0 | 4.5 | 4.7 | 4.9 | 5.1 | 5.0 | 4.6 | 4.1 | 3.8 | 3.5 | 3.4 | 3.0 | 3.3 | 3.4 |
| SIGMA | 2.2 | 1.9 | 1.9 | 1.5 | 1.9 | 2.1 | 2.4 | 1.9 | 2.0 | 1.9 | 1.7 | 1.8 | 1.7 | 1.6 | 1.9 | 2.1 | 1.9 | 1.9 | 2.0 | 1.9 | 1.9 | 1.8 | 2.0 | 2.0 |
| TEMPERATURE | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | 22.6 | | 23.2 | | 26.9 | | 27.8 | | 26.8 | | 25.0 | | 24.1 | | 23.2 | | | | | | |
| SIGMA | | | | 2.2 | | 2.0 | | 2.8 | | 3.1 | | 2.6 | | 1.9 | | 1.6 | | 2.1 | | | | | | |
| HUMIDITY | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | 88.2 | | 87.5 | | 74.3 | | 71.4 | | 74.6 | | 80.9 | | 85.6 | | 86.4 | | | | | | |
| SIGMA | | | | 20.4 | | 20.5 | | 18.3 | | 18.2 | | 17.1 | | 18.4 | | 19.0 | | 19.6 | | | | | | |
| LAPSE RATE | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | -4.4 | | -1.1 | | -3.4 | | -4.0 | | -3.5 | | -2.2 | | -1.5 | | -0.6 | | | | | | |
| SIGMA | | | | 25.6 | | 1.4 | | 2.3 | | 2.4 | | 2.0 | | 2.1 | | 2.0 | | 2.1 | | | | | | |
| STABILIZATION RATIO | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | 0.3 | | -1.7 | | -1.6 | | -0.6 | | -0.4 | | -1.1 | | -1.8 | | -0.1 | | | | | | |
| SIGMA | | | | 3.7 | | 3.1 | | 2.1 | | 0.7 | | 0.5 | | 1.9 | | 4.5 | | 3.5 | | | | | | |
| RADIATION | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | -1.9 | -1.8 | -1.6 | -1.5 | -1.5 | -1.3 | 8.8 | 19.3 | 30.1 | 44.0 | 53.4 | 58.3 | 53.3 | 47.3 | 42.4 | 29.9 | 16.3 | -2.2 | -2.3 | -2.5 | -2.2 | -2.3 | -2.0 | -1.9 |
| SIGMA | 1.3 | 1.2 | 1.1 | 1.0 | 1.0 | 0.9 | 4.1 | 9.2 | 13.6 | 16.7 | 17.3 | 21.4 | 20.6 | 18.5 | 16.4 | 11.7 | 8.2 | 1.3 | 1.3 | 1.4 | 1.3 | 1.3 | 1.2 | 1.2 |

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TABLE-3. FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|-----|-----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|------|
| 10M | 94 | 22 | 95 | 117 | 29 | 25 | 14 | 8 | 50 | 60 | 22 | 30 | 17 | 26 | 35 | 18 | 11 | 71 |
| 45M | 16 | 39 | 172 | 96 | 26 | 26 | 7 | 66 | 58 | 26 | 45 | 27 | 27 | 41 | 46 | 17 | 9 | 0 |

TABLE-4. PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 10M | 14.0 | 3.3 | 14.1 | 17.4 | 4.3 | 3.7 | 2.1 | 1.2 | 7.4 | 8.9 | 3.3 | 4.5 | 2.5 | 3.9 | 5.2 | 2.7 | 1.6 | 99.9 |
| 45M | 2.2 | 5.2 | 23.1 | 12.9 | 3.5 | 3.5 | 0.9 | 8.9 | 7.8 | 3.5 | 6.0 | 3.6 | 3.6 | 5.5 | 6.2 | 2.3 | 1.2 | 99.9 |

TABLE-5. FREQUENCY DISTRIBUTION OF W. DIR. AND SPEED

| | TOTL | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|---------|------|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|-----|----|-----|---|------|
| 10M | | | | | | | | | | | | | | | | | | |
| -0.4 | 94 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 91 | 3 | 1 | 4 | 1 | 2 | 3 | 2 | 1 | 2 | 4 | 5 | 2 | 8 | 23 | 11 | 5 | 14 |
| 1.0-1.9 | 142 | 6 | 13 | 18 | 7 | 7 | 4 | 3 | 6 | 3 | 9 | 11 | 8 | 13 | 9 | 4 | 4 | 17 |
| 2.0-2.9 | 134 | 3 | 11 | 23 | 9 | 14 | 5 | 3 | 20 | 13 | 1 | 5 | 3 | 4 | 3 | 1 | 1 | 15 |
| 3.0-3.9 | 126 | 3 | 21 | 28 | 9 | 1 | 2 | 0 | 19 | 15 | 1 | 7 | 1 | 1 | 0 | 1 | 1 | 16 |
| 4.0-4.9 | 99 | 6 | 34 | 28 | 2 | 1 | 0 | 0 | 2 | 13 | 3 | 1 | 3 | 0 | 0 | 0 | 0 | 5 |
| 5.0-5.9 | 37 | 1 | 10 | 11 | 1 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 6.0-6.9 | 17 | 0 | 4 | 5 | 0 | 0 | 0 | 0 | 1 | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.0-7.9 | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.0-8.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9.0-9.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.0- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45M | | | | | | | | | | | | | | | | | | |
| -0.4 | 16 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 24 | 1 | 1 | 0 | 2 | 2 | 0 | 1 | 0 | 0 | 2 | 2 | 2 | 3 | 7 | 0 | 1 | 0 |
| 1.0-1.9 | 82 | 3 | 3 | 8 | 6 | 3 | 3 | 6 | 2 | 2 | 8 | 4 | 10 | 8 | 9 | 4 | 3 | 0 |
| 2.0-2.9 | 171 | 13 | 18 | 18 | 8 | 16 | 3 | 12 | 7 | 9 | 13 | 7 | 6 | 12 | 17 | 9 | 3 | 0 |
| 3.0-3.9 | 120 | 2 | 16 | 19 | 7 | 4 | 1 | 15 | 7 | 2 | 8 | 7 | 6 | 12 | 12 | 2 | 0 | 0 |
| 4.0-4.9 | 102 | 2 | 28 | 23 | 2 | 1 | 0 | 16 | 7 | 6 | 6 | 2 | 3 | 5 | 1 | 0 | 0 | 0 |
| 5.0-5.9 | 100 | 3 | 42 | 18 | 1 | 0 | 0 | 14 | 14 | 2 | 1 | 2 | 0 | 1 | 0 | 1 | 1 | 0 |
| 6.0-6.9 | 73 | 9 | 34 | 7 | 0 | 0 | 0 | 2 | 10 | 3 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.0-7.9 | 33 | 6 | 16 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| 8.0-8.9 | 11 | 0 | 5 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9.0-9.9 | 6 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.0- | 6 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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TABLE-6. FREQUENCY DISTRIBUTION OF STABILITY CATEG.

| CATEG | TOTL | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-------|------|-----|-----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|---|------|
| A | 4 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 |
| A-B | 57 | 0 | 0 | 3 | 4 | 13 | 4 | 11 | 0 | 2 | 4 | 3 | 5 | 5 | 3 | 0 | 0 | 0 |
| B | 91 | 0 | 3 | 15 | 10 | 7 | 0 | 31 | 9 | 1 | 3 | 2 | 3 | 6 | 0 | 0 | 0 | 1 |
| B-C | 23 | 0 | 9 | 4 | 0 | 1 | 0 | 1 | 4 | 1 | 2 | 0 | 1 | 2 | 0 | 0 | 0 | 0 |
| C | 52 | 0 | 13 | 13 | 2 | 0 | 0 | 12 | 4 | 1 | 2 | 1 | 1 | 2 | 0 | 0 | 0 | 0 |
| C-D | 33 | 1 | 17 | 4 | 1 | 0 | 0 | 0 | 6 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 0 |
| D1 | 81 | 4 | 33 | 10 | 3 | 0 | 0 | 2 | 12 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 0 |
| D2 | 244 | 23 | 61 | 36 | 3 | 4 | 0 | 1 | 11 | 11 | 19 | 11 | 7 | 18 | 23 | 6 | 3 | 7 |
| E | 16 | 0 | 5 | 1 | 0 | 0 | 0 | 2 | 7 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| G | 121 | 10 | 16 | 6 | 2 | 0 | 2 | 6 | 4 | 8 | 13 | 8 | 6 | 7 | 18 | 8 | 3 | 4 |
| LACK | 20 | 1 | 14 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 744 | 39 | 172 | 96 | 26 | 26 | 7 | 66 | 58 | 27 | 45 | 27 | 28 | 41 | 46 | 17 | 9 | 14 |

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TABLE-1 DAILY AVERAGES

| DATE | AIR TEMP. C. DEG | HUMIDITY % | PRECIPITAT. MM | SOLAR RAD. CAL/SQCM/DAY | NET RAD. CAL/SQCM/DAY | WIND SPD(5) M/S | WIND SPD(10) M/S | WIND SPD(20) M/S | WIND SPD(40) M/S |
|-------|------------------|------------|----------------|-------------------------|-----------------------|-----------------|------------------|------------------|------------------|
| 1 | 26.1 | 999.9 | 0.0 | 322.2 | 999.9 | 1.2 | 1.1 | 1.8 | 1.9 |
| 2 | 29.0 | 999.9 | 0.0 | 354.0 | -24.3 | 1.1 | 1.5 | 2.1 | 2.7 |
| 3 | 28.0 | 999.9 | 0.0 | 337.8 | -22.4 | 1.0 | 1.3 | 2.0 | 2.5 |
| 4 | 24.0 | 999.9 | 0.0 | 486.0 | -52.0 | 2.8 | 5.0 | 8.8 | 7.0 |
| 5 | 22.8 | 999.9 | 0.0 | 175.2 | -27.7 | 0.6 | 0.7 | 1.3 | 2.0 |
| 6 | 25.2 | 999.9 | 0.0 | 305.4 | -25.0 | 1.2 | 1.1 | 2.0 | 2.6 |
| 7 | 23.3 | 999.9 | 0.0 | 435.6 | -44.4 | 1.8 | 2.5 | 3.9 | 4.5 |
| 8 | 23.5 | 999.9 | 0.0 | 467.4 | -29.8 | 1.2 | 1.3 | 2.0 | 2.4 |
| 9 | 26.1 | 999.9 | 0.0 | 617.0 | +51.1 | 0.6 | 1.3 | 2.5 | 2.8 |
| 10 | 26.5 | 999.9 | 0.0 | 204.6 | -35.4 | 0.8 | 1.2 | 2.1 | 2.4 |
| 11 | 23.8 | 999.9 | 0.0 | 514.8 | -48.5 | 2.3 | 3.0 | 4.3 | 4.8 |
| 12 | 21.1 | 999.9 | 0.0 | 94.5 | -19.6 | 0.7 | 0.6 | 1.3 | 2.1 |
| 13 | 23.2 | 999.9 | 0.0 | 243.0 | -19.4 | 1.9 | 2.8 | 4.7 | 5.2 |
| 14 | 23.4 | 999.9 | 5.0 | 255.0 | -12.3 | 1.0 | 1.4 | 2.3 | 2.6 |
| 15 | 23.8 | 999.9 | 23.5 | 228.6 | -20.8 | 1.8 | 2.4 | 3.9 | 4.9 |
| 16 | 21.1 | 999.9 | 0.0 | 81.0 | -15.3 | 0.7 | 1.5 | 2.8 | 3.4 |
| 17 | 23.9 | 999.9 | 0.0 | 189.0 | -23.9 | 1.6 | 2.0 | 2.6 | 3.1 |
| 18 | 25.7 | 999.9 | 1.0 | 89.4 | 999.9 | 1.5 | 2.3 | 3.2 | 3.9 |
| 19 | 21.4 | 999.9 | 13.5 | 100.8 | 999.9 | 1.0 | 1.7 | 2.5 | 3.3 |
| 20 | 21.3 | 999.9 | 0.0 | 412.8 | -53.5 | 1.2 | 1.8 | 2.9 | 3.6 |
| 21 | 21.5 | 999.9 | 0.0 | 228.0 | 999.9 | 0.9 | 0.8 | 1.4 | 2.5 |
| 22 | 25.3 | 999.9 | 0.0 | 415.0 | 999.9 | 1.8 | 2.8 | 4.2 | 5.0 |
| 23 | 20.3 | 999.9 | 14.5 | 42.0 | -6.1 | 2.3 | 4.1 | 5.6 | 6.5 |
| 24 | 19.8 | 999.9 | 0.0 | 130.8 | -5.2 | 1.9 | 3.7 | 4.6 | 5.6 |
| 25 | 21.8 | 999.9 | 0.0 | 151.9 | -13.5 | 1.7 | 2.9 | 4.0 | 4.7 |
| 26 | 18.3 | 999.9 | 2.0 | 31.8 | -18.2 | 1.1 | 1.9 | 3.1 | 3.8 |
| 27 | 17.3 | 999.9 | 0.0 | 450.6 | -65.1 | 2.0 | 3.1 | 4.4 | 5.8 |
| 28 | 18.7 | 999.9 | 0.0 | 352.8 | -46.4 | 1.8 | 2.8 | 4.0 | 5.2 |
| 29 | 20.0 | 999.9 | 20.5 | 69.6 | 999.9 | 0.8 | 1.1 | 1.8 | 2.7 |
| 30 | 19.1 | 999.9 | 6.5 | 24.7 | 999.9 | 1.0 | 1.7 | 3.0 | 3.7 |
| MONTH | 22.9 | 999.9 | 86.5 | 258.5 | -29.1 | 1.4 | 2.1 | 3.1 | 3.8 |
| LACK | 3 | 240 | 0 | 8 | 109 | 10 | 10 | 10 | 10 |

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TABLE-2 HOURLY AVERAGES AND STANDARD DEVIATIONS

| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| WIND SPD | | | | | | | | | | | | | | | | | | | | | | | | |
| H= 5M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 0.8 | 0.9 | 0.9 | 1.0 | 0.9 | 0.9 | 1.2 | 1.5 | 1.7 | 2.0 | 2.1 | 2.3 | 2.3 | 2.6 | 2.2 | 1.9 | 1.4 | 1.3 | 1.1 | 1.1 | 0.9 | 0.9 | 0.9 | 0.8 |
| SIGMA | 0.8 | 0.8 | 0.9 | 1.0 | 0.8 | 0.9 | 0.9 | 0.8 | 0.8 | 0.9 | 1.0 | 1.1 | 1.0 | 1.3 | 1.3 | 1.0 | 0.9 | 1.0 | 0.9 | 1.0 | 0.9 | 1.0 | 1.0 | 0.6 |
| H= 10M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 1.5 | 1.5 | 1.5 | 1.7 | 1.4 | 1.6 | 1.9 | 2.3 | 2.7 | 2.8 | 2.9 | 3.0 | 2.9 | 3.1 | 2.8 | 2.4 | 2.1 | 1.9 | 1.7 | 1.9 | 1.6 | 1.6 | 1.6 | 1.4 |
| SIGMA | 1.2 | 1.4 | 1.6 | 1.6 | 1.4 | 1.6 | 1.6 | 1.5 | 1.6 | 1.6 | 1.7 | 1.6 | 1.5 | 1.5 | 1.4 | 1.5 | 1.4 | 1.4 | 1.7 | 1.4 | 1.5 | 1.4 | 1.4 | 1.2 |
| H= 20M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 2.3 | 2.4 | 2.6 | 2.8 | 2.5 | 2.7 | 3.0 | 3.5 | 3.8 | 4.0 | 4.1 | 4.0 | 4.0 | 4.3 | 3.9 | 3.5 | 3.2 | 3.1 | 2.8 | 2.8 | 2.5 | 2.6 | 2.6 | 2.2 |
| SIGMA | 1.5 | 1.6 | 1.8 | 2.1 | 1.8 | 1.9 | 1.9 | 2.0 | 1.9 | 2.0 | 2.2 | 2.0 | 2.1 | 2.0 | 2.1 | 1.9 | 2.0 | 2.0 | 1.9 | 2.2 | 1.9 | 2.0 | 1.8 | 1.6 |
| H= 45M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 3.2 | 3.6 | 3.6 | 3.6 | 3.7 | 3.7 | 3.9 | 3.9 | 4.1 | 4.1 | 4.4 | 4.1 | 4.2 | 4.5 | 4.4 | 4.0 | 3.7 | 3.9 | 3.5 | 3.4 | 3.3 | 3.4 | 3.6 | 3.4 |
| SIGMA | 1.4 | 1.6 | 1.8 | 2.0 | 1.9 | 1.8 | 2.0 | 1.9 | 2.0 | 2.1 | 2.3 | 2.0 | 2.1 | 2.3 | 2.3 | 2.1 | 2.2 | 2.3 | 2.0 | 2.5 | 2.0 | 1.9 | 1.8 | 1.7 |
| TEMPERATURE | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | 20.8 | | 20.7 | | 23.9 | | | | 25.6 | | | 25.0 | | 23.5 | | | 22.2 | | | 21.4 | |
| SIGMA | | | | 3.4 | | 3.1 | | 4.4 | | | | 4.2 | | | 3.4 | | 3.1 | | | 2.9 | | | 3.0 | |
| HUMIDITY | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | 99.9 | | 99.9 | | 99.9 | | | | 99.9 | | | 99.9 | | 99.9 | | | 99.9 | | | 99.9 | |
| SIGMA | | | | 99.9 | | 99.9 | | 99.9 | | | | 99.9 | | | 99.9 | | 99.9 | | | 99.9 | | | 99.9 | |
| LAPSE RATE | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | -1.0 | | -1.0 | | -2.6 | | | | -2.8 | | | -2.2 | | -1.6 | | | -0.7 | | | -0.8 | |
| SIGMA | | | | 1.3 | | 1.2 | | 1.1 | | | | 1.2 | | | 1.4 | | 0.4 | | | 1.5 | | | 1.5 | |
| STABILIZATION RATIO | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | -1.3 | | -0.8 | | -1.4 | | | | -1.0 | | | -0.9 | | -1.1 | | | -1.3 | | | 0.1 | |
| SIGMA | | | | 2.4 | | 1.5 | | 2.6 | | | | 1.3 | | | 2.8 | | 1.6 | | | 1.9 | | | 3.2 | |
| RADIATION | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | -1.9 | -2.0 | -1.9 | -1.8 | -1.9 | -1.6 | 99.9 | 14.8 | 24.0 | 33.5 | 37.3 | 38.5 | 36.6 | 31.4 | 24.8 | 15.4 | 99.9 | -1.9 | -2.4 | -2.1 | -2.0 | -1.9 | -2.0 | -1.8 |
| SIGMA | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 99.9 | 10.6 | 13.3 | 21.8 | 23.2 | 25.0 | 24.5 | 21.7 | 16.3 | 11.6 | 99.9 | 1.5 | 1.5 | 1.4 | 1.4 | 1.2 | 1.2 | 1.4 |

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TABLE-3 FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|-----|-----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|------|
| 10M | 98 | 79 | 171 | 53 | 13 | 14 | 17 | 11 | 19 | 15 | 22 | 25 | 40 | 42 | 48 | 23 | 16 | 14 |
| 45M | 19 | 69 | 176 | 65 | 18 | 12 | 16 | 25 | 22 | 16 | 35 | 19 | 32 | 53 | 64 | 48 | 21 | 10 |

TABLE-4 PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| 10M | 13.9 | 11.2 | 24.2 | 7.5 | 1.8 | 2.0 | 2.4 | 1.6 | 2.7 | 2.1 | 3.1 | 3.5 | 5.7 | 5.9 | 6.8 | 3.3 | 2.3 | 999.9 |
| 45M | 2.7 | 9.7 | 24.8 | 9.2 | 2.5 | 1.7 | 2.3 | 3.5 | 3.1 | 2.3 | 4.9 | 2.7 | 4.5 | 7.5 | 9.0 | 6.8 | 3.0 | 999.9 |

TABLE-5 FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

| | TOTL | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|---------|------|-----|----|-----|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|---|------|
| 10M | | | | | | | | | | | | | | | | | | |
| -0.4 | 98 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 126 | 12 | 1 | 3 | 3 | 4 | 2 | 1 | 3 | 3 | 2 | 5 | 13 | 19 | 34 | 13 | 7 | 1 |
| 1.0-1.9 | 153 | 22 | 9 | 5 | 5 | 6 | 12 | 4 | 6 | 1 | 3 | 10 | 17 | 20 | 14 | 10 | 8 | 1 |
| 2.0-2.9 | 101 | 26 | 26 | 7 | 4 | 3 | 2 | 2 | 5 | 4 | 5 | 5 | 8 | 3 | 0 | 0 | 1 | 0 |
| 3.0-3.9 | 113 | 15 | 51 | 19 | 1 | 1 | 1 | 4 | 4 | 4 | 8 | 1 | 2 | 0 | 0 | 0 | 0 | 2 |
| 4.0-4.9 | 75 | 3 | 46 | 16 | 0 | 0 | 0 | 0 | 0 | 3 | 3 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5.0-5.9 | 35 | 1 | 29 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.0-6.9 | 8 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.0-7.9 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.0-8.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9.0-9.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.0- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45M | | | | | | | | | | | | | | | | | | |
| -0.4 | 19 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 19 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 3 | 1 | 5 | 3 | 2 | 1 | 0 |
| 1.0-1.9 | 74 | 4 | 2 | 1 | 3 | 3 | 4 | 2 | 3 | 6 | 5 | 5 | 4 | 12 | 13 | 5 | 2 | 0 |
| 2.0-2.9 | 144 | 12 | 9 | 3 | 4 | 6 | 8 | 10 | 7 | 1 | 8 | 4 | 9 | 16 | 21 | 17 | 9 | 0 |
| 3.0-3.9 | 145 | 16 | 19 | 8 | 4 | 2 | 9 | 9 | 4 | 3 | 7 | 3 | 11 | 16 | 22 | 12 | 5 | 0 |
| 4.0-4.9 | 106 | 23 | 28 | 8 | 4 | 0 | 3 | 2 | 1 | 5 | 0 | 6 | 4 | 4 | 12 | 4 | 0 | 0 |
| 5.0-5.9 | 62 | 9 | 29 | 8 | 1 | 0 | 0 | 0 | 3 | 2 | 4 | 1 | 0 | 1 | 0 | 0 | 0 | 0 |
| 6.0-6.9 | 73 | 2 | 39 | 22 | 1 | 0 | 0 | 1 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.0-7.9 | 42 | 1 | 27 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.0-8.9 | 23 | 0 | 20 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9.0-9.9 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.0- | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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TABLE-6 FREQUENCY DISTRIBUTION OF STABILITY CATEG

| CATEG | TOTL | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-------|------|-----|-----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|------|
| A | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |
| A-B | 30 | 1 | 0 | 1 | 3 | 4 | 6 | 1 | 0 | 0 | 4 | 3 | 6 | 1 | 0 | 0 | 0 | 0 |
| B | 57 | 2 | 7 | 8 | 8 | 2 | 2 | 7 | 3 | 1 | 3 | 1 | 6 | 3 | 3 | 0 | 1 | 0 |
| B-C | 15 | 0 | 3 | 5 | 0 | 1 | 0 | 4 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| C | 46 | 2 | 19 | 14 | 1 | 0 | 0 | 1 | 2 | 1 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| C-D | 15 | 0 | 8 | 6 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1 | 93 | 13 | 34 | 8 | 0 | 0 | 1 | 3 | 0 | 0 | 4 | 2 | 2 | 6 | 3 | 10 | 4 | 3 |
| D2 | 227 | 30 | 70 | 15 | 2 | 2 | 6 | 3 | 11 | 9 | 8 | 3 | 10 | 16 | 21 | 15 | 6 | 0 |
| E | 13 | 3 | 5 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| G | 100 | 8 | 4 | 3 | 2 | 2 | 1 | 0 | 4 | 1 | 4 | 8 | 4 | 14 | 17 | 19 | 6 | 3 |
| LACK | 120 | 10 | 25 | 6 | 3 | 1 | 2 | 5 | 1 | 3 | 6 | 1 | 4 | 13 | 20 | 4 | 5 | 11 |
| TOTAL | 720 | 69 | 176 | 66 | 19 | 12 | 18 | 26 | 22 | 17 | 35 | 21 | 33 | 53 | 65 | 49 | 22 | 17 |

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TABLE-1 DAILY AVERAGES

| DATE | AIR TEMP. C. DEG | HUMIDITY PERCENT | PRECIPITATION MM | SOLAR RAD. CAL/CM ² /DAY | NET RAD. CAL/CM ² /DAY | WIND SPD(5) M/S | WIND SPD(10) M/S | WIND SPD(20) M/S | WIND SPD(40) M/S |
|-------|---------------------|---------------------|---------------------|--|--------------------------------------|--------------------|---------------------|---------------------|---------------------|
| 1 | 17.3 | 88.0 | 0.5 | 177.9 | 999.9 | 0.5 | 0.6 | 1.1 | 1.8 |
| 2 | 17.7 | 66.0 | 0.0 | 327.6 | 999.9 | 1.1 | 1.5 | 2.2 | 3.4 |
| 3 | 16.3 | 70.2 | 0.0 | 217.8 | 999.9 | 0.6 | 0.6 | 1.1 | 2.4 |
| 4 | 16.6 | 83.1 | 1.0 | 46.2 | 999.9 | 0.7 | 1.0 | 1.7 | 2.6 |
| 5 | 15.6 | 88.7 | 12.0 | 69.6 | 999.9 | 0.8 | 1.6 | 2.3 | 3.7 |
| 6 | 16.6 | 71.2 | 0.0 | 436.2 | 999.9 | 1.2 | 1.6 | 2.2 | 3.8 |
| 7 | 16.4 | 74.0 | 0.0 | 387.6 | -70.5 | 1.1 | 1.3 | 2.0 | 3.3 |
| 8 | 18.5 | 73.5 | 0.0 | 374.0 | -50.2 | 1.7 | 2.0 | 2.9 | 3.7 |
| 9 | 999.9 | 999.9 | 0.0 | 370.2 | -43.8 | 1.1 | 1.7 | 2.7 | 3.7 |
| 10 | 999.9 | 999.9 | 0.0 | 181.2 | -13.6 | 1.5 | 2.8 | 3.6 | 4.5 |
| 11 | 999.9 | 999.9 | 5.5 | 162.6 | -37.9 | 2.4 | 4.8 | 5.9 | 7.1 |
| 12 | 999.9 | 999.9 | 3.5 | 46.0 | -11.5 | 1.0 | 1.6 | 2.4 | 3.4 |
| 13 | 19.0 | 89.9 | 5.5 | 130.8 | -6.1 | 1.1 | 1.6 | 2.7 | 3.5 |
| 14 | 999.9 | 999.9 | 3.0 | 64.2 | 999.9 | 1.0 | 2.0 | 3.1 | 3.8 |
| 15 | 999.9 | 999.9 | 0.0 | 381.6 | 999.9 | 1.0 | 1.3 | 2.2 | 3.3 |
| 16 | 17.6 | 75.9 | 0.0 | 281.4 | -32.2 | 1.4 | 1.8 | 3.0 | 3.9 |
| 17 | 14.5 | 90.6 | 30.0 | 18.6 | -28.7 | 1.2 | 2.1 | 3.1 | 4.2 |
| 18 | 15.8 | 77.4 | 0.0 | 346.2 | 999.9 | 0.9 | 0.9 | 1.9 | 2.8 |
| 19 | 14.1 | 65.5 | 0.0 | 121.2 | -49.6 | 0.7 | 1.2 | 2.3 | 3.0 |
| 20 | 9.8 | 67.7 | 0.0 | 346.0 | -102.1 | 1.3 | 1.8 | 2.9 | 4.1 |
| 21 | 10.0 | 69.7 | 0.0 | 384.4 | -99.7 | 0.8 | 1.1 | 2.1 | 3.6 |
| 22 | 11.7 | 68.9 | 0.0 | 406.7 | -65.1 | 0.7 | 1.0 | 2.2 | 3.1 |
| 23 | 13.5 | 76.5 | 0.0 | 321.6 | -60.1 | 0.9 | 1.0 | 2.0 | 2.8 |
| 24 | 17.3 | 75.7 | 0.0 | 999.9 | 999.9 | 1.2 | 1.7 | 2.9 | 3.9 |
| 25 | 19.7 | 94.7 | 5.0 | 999.9 | 999.9 | 0.9 | 1.4 | 2.4 | 3.6 |
| 26 | 19.1 | 80.1 | 0.5 | 999.9 | 999.9 | 1.8 | 2.3 | 3.5 | 4.7 |
| 27 | 10.9 | 55.5 | 0.0 | 214.5 | -25.5 | 2.0 | 2.6 | 4.1 | 5.1 |
| 28 | 9.3 | 85.0 | 6.5 | 46.8 | -15.7 | 1.3 | 1.8 | 2.9 | 3.7 |
| 29 | 10.3 | 85.0 | 0.0 | 153.6 | -43.3 | 0.8 | 0.9 | 2.1 | 2.7 |
| 30 | 10.9 | 68.7 | 2.0 | 336.6 | -31.3 | 1.4 | 1.6 | 2.7 | 3.7 |
| 31 | 9.0 | 71.2 | 0.0 | 351.0 | -66.1 | 0.8 | 1.2 | 2.1 | 2.8 |
| MONTH | 14.9 | 77.4 | 75.0 | 240.6 | -43.3 | 1.1 | 1.6 | 2.6 | 3.6 |
| LACK | 32 | 32 | 0 | 35 | 198 | 0 | 0 | 0 | 0 |

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TABLE-2 HOURLY AVERAGES AND STANDARD DEVIATIONS

| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| WIND SPD | | | | | | | | | | | | | | | | | | | | | | | | | |
| H= | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 0.8 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 | 0.9 | 1.1 | 1.2 | 1.5 | 1.7 | 1.9 | 1.9 | 2.0 | 2.0 | 1.5 | 1.1 | 1.0 | 0.7 | 0.7 | 0.7 | 0.9 | 0.8 | 0.8 | |
| SIGMA | 0.6 | 0.7 | 0.6 | 0.7 | 0.6 | 0.7 | 0.8 | 0.6 | 0.7 | 0.7 | 0.9 | 1.0 | 1.1 | 1.1 | 1.2 | 1.2 | 0.9 | 0.9 | 0.7 | 0.7 | 0.6 | 0.7 | 0.7 | 0.5 | |
| 10M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 1.1 | 1.1 | 1.3 | 1.2 | 1.2 | 1.1 | 1.3 | 1.5 | 1.6 | 2.1 | 2.1 | 2.2 | 2.3 | 2.5 | 2.3 | 2.1 | 1.9 | 1.7 | 1.4 | 1.4 | 1.3 | 1.4 | 1.3 | 1.3 | |
| SIGMA | 0.9 | 0.9 | 1.0 | 1.1 | 1.0 | 1.1 | 1.3 | 1.2 | 1.3 | 1.3 | 1.4 | 1.4 | 1.5 | 1.4 | 1.5 | 1.6 | 1.5 | 1.5 | 1.3 | 1.2 | 1.1 | 1.1 | 1.2 | 0.9 | |
| 20M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 2.1 | 2.2 | 2.5 | 2.2 | 2.4 | 2.3 | 2.2 | 2.4 | 2.5 | 3.0 | 2.8 | 3.0 | 3.2 | 3.4 | 3.2 | 3.1 | 2.9 | 2.7 | 2.4 | 2.3 | 2.4 | 2.5 | 2.3 | 2.2 | |
| SIGMA | 1.1 | 1.0 | 1.2 | 1.3 | 1.2 | 1.3 | 1.6 | 1.4 | 1.8 | 1.8 | 1.6 | 1.6 | 1.8 | 1.7 | 1.7 | 1.8 | 1.7 | 1.6 | 1.5 | 1.4 | 1.3 | 1.4 | 1.3 | 1.1 | |
| 45M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 3.7 | 3.5 | 3.8 | 3.9 | 3.8 | 3.9 | 3.7 | 3.2 | 2.9 | 3.4 | 3.3 | 3.5 | 3.6 | 3.9 | 3.8 | 3.6 | 3.9 | 3.5 | 3.5 | 3.5 | 3.6 | 3.7 | 3.6 | 3.8 | |
| SIGMA | 1.0 | 1.0 | 1.3 | 1.4 | 1.3 | 1.5 | 1.6 | 1.5 | 2.1 | 1.9 | 1.9 | 2.0 | 1.9 | 2.0 | 2.1 | 1.8 | 1.7 | 1.7 | 1.2 | 1.3 | 1.4 | 1.5 | 1.1 | 1.1 | |
| TEMPERATURE | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | 11.7 | | 10.8 | | 17.4 | | 19.1 | | 18.6 | | 16.0 | | 13.7 | | 12.2 | | | | | | | |
| SIGMA | | | | 4.6 | | 5.1 | | 3.9 | | 3.6 | | 3.4 | | 3.5 | | 3.8 | | 4.4 | | | | | | | |
| HUMIDITY | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | 87.0 | | 88.6 | | 69.5 | | 63.6 | | 67.6 | | 75.5 | | 82.0 | | 85.5 | | | | | | | |
| SIGMA | | | | 9.2 | | 8.4 | | 15.7 | | 18.9 | | 18.0 | | 13.0 | | 12.0 | | 10.5 | | | | | | | |
| LAPSE RATE | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | 3.1 | | 3.6 | | -1.0 | | -2.0 | | -1.4 | | 1.8 | | 1.9 | | 2.4 | | | | | | | |
| SIGMA | | | | 4.0 | | 4.0 | | 1.9 | | 1.3 | | 1.0 | | 3.4 | | 2.9 | | 3.4 | | | | | | | |
| STABILITY RATIO | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | | 4.3 | | 8.2 | | -1.1 | | -1.0 | | -0.6 | | 1.2 | | 3.3 | | 2.8 | | | | | | | |
| SIGMA | | | | 5.1 | | 10.5 | | 3.5 | | 1.2 | | 0.7 | | 3.0 | | 5.7 | | 3.5 | | | | | | | |
| RADIATION | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | -2.7 | -2.7 | -2.5 | -2.6 | -2.3 | -2.2 | -2.2 | 13.9 | 24.3 | 29.5 | 37.7 | 38.8 | 36.2 | 28.8 | 19.6 | 10.3 | -3.7 | -3.8 | -3.3 | -3.0 | -3.2 | -3.0 | -2.9 | -3.0 | |
| SIGMA | 1.9 | 2.0 | 2.0 | 2.0 | 1.9 | 1.8 | 2.1 | 9.5 | 15.6 | 19.7 | 21.6 | 21.9 | 20.0 | 17.0 | 12.0 | 7.3 | 2.4 | 2.4 | 2.2 | 2.2 | 1.8 | 1.9 | 1.9 | 2.2 | |

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TABLE-3 FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|----|------|
| 10M | 93 | 70 | 80 | 42 | 18 | 6 | 8 | 3 | 17 | 23 | 28 | 24 | 24 | 63 | 131 | 62 | 38 | 14 |
| 45M | 5 | 66 | 92 | 26 | 23 | 9 | 11 | 13 | 17 | 27 | 36 | 27 | 34 | 45 | 155 | 99 | 59 | 0 |

TABLE-4 PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|------|
| 10M | 12.7 | 9.6 | 11.0 | 5.8 | 2.5 | 0.8 | 1.1 | 0.4 | 2.3 | 3.2 | 3.8 | 3.3 | 3.3 | 8.6 | 17.9 | 8.5 | 5.2 | 0.0 |
| 45M | 0.7 | 8.9 | 12.4 | 3.5 | 3.1 | 1.2 | 1.5 | 1.7 | 2.3 | 3.6 | 4.8 | 3.6 | 4.6 | 6.0 | 20.8 | 13.3 | 7.9 | 0.0 |

TABLE-5 FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

| | TOTL | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|---------|------|-----|----|-----|----|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|------|
| 10M | | | | | | | | | | | | | | | | | | |
| -0.4 | 93 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 193 | 12 | 1 | 2 | 2 | 2 | 1 | 0 | 0 | 2 | 1 | 8 | 10 | 27 | 77 | 35 | 7 | 6 |
| 1.0-1.9 | 214 | 18 | 7 | 2 | 2 | 4 | 2 | 0 | 4 | 11 | 12 | 6 | 13 | 35 | 51 | 24 | 17 | 6 |
| 2.0-2.9 | 101 | 16 | 8 | 14 | 11 | 0 | 5 | 3 | 5 | 6 | 7 | 4 | 0 | 1 | 3 | 3 | 13 | 2 |
| 3.0-3.9 | 85 | 18 | 28 | 17 | 3 | 0 | 0 | 0 | 4 | 3 | 6 | 4 | 1 | 0 | 0 | 0 | 1 | 0 |
| 4.0-4.9 | 37 | 5 | 21 | 3 | 0 | 0 | 0 | 0 | 4 | 1 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5.0-5.9 | 14 | 1 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.0-6.9 | 7 | 0 | 6 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.0-7.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.0-8.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9.0-9.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.0- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45M | | | | | | | | | | | | | | | | | | |
| -0.4 | 5 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 15 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 3 | 2 | 0 | 2 | 2 | 2 | 0 |
| 1.0-1.9 | 54 | 1 | 2 | 0 | 2 | 2 | 0 | 0 | 0 | 1 | 2 | 3 | 6 | 13 | 11 | 8 | 3 | 0 |
| 2.0-2.9 | 167 | 8 | 3 | 2 | 3 | 5 | 6 | 2 | 3 | 2 | 9 | 11 | 11 | 12 | 32 | 20 | 18 | 0 |
| 3.0-3.9 | 193 | 17 | 2 | 2 | 7 | 1 | 3 | 5 | 6 | 5 | 7 | 5 | 14 | 18 | 47 | 33 | 21 | 0 |
| 4.0-4.9 | 166 | 22 | 19 | 14 | 9 | 0 | 2 | 5 | 4 | 9 | 6 | 3 | 1 | 2 | 33 | 27 | 10 | 0 |
| 5.0-5.9 | 74 | 14 | 20 | 8 | 2 | 0 | 0 | 1 | 2 | 3 | 5 | 1 | 0 | 0 | 8 | 8 | 2 | 0 |
| 6.0-6.9 | 37 | 4 | 22 | 0 | 0 | 0 | 0 | 0 | 1 | 4 | 1 | 1 | 0 | 0 | 0 | 1 | 3 | 0 |
| 7.0-7.9 | 17 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 0 |
| 8.0-8.9 | 10 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9.0-9.9 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.0- | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

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TABLE-6 FREQUENCY DISTRIBUTION OF STABILITY CATEG

| CATEG | TOTL | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-------|------|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|----|------|
| A | 16 | 0 | 0 | 0 | 0 | 2 | 1 | 2 | 2 | 0 | 4 | 4 | 0 | 1 | 0 | 0 | 0 | 0 |
| A-B | 45 | 1 | 1 | 3 | 8 | 3 | 4 | 2 | 1 | 0 | 2 | 2 | 3 | 3 | 7 | 3 | 2 | 0 |
| B | 64 | 2 | 2 | 9 | 8 | 2 | 3 | 4 | 0 | 3 | 1 | 4 | 3 | 4 | 10 | 2 | 5 | 2 |
| B-C | 10 | 0 | 3 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| C | 17 | 0 | 3 | 3 | 4 | 0 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 |
| C-D | 7 | 0 | 4 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1 | 85 | 16 | 21 | 2 | 0 | 0 | 1 | 0 | 2 | 0 | 2 | 1 | 1 | 5 | 12 | 11 | 10 | 1 |
| D2 | 128 | 22 | 43 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 7 | 11 | 21 | 9 | 9 | 0 |
| E | 7 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| F | 4 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| G | 128 | 4 | 1 | 1 | 0 | 0 | 0 | 0 | 3 | 3 | 5 | 6 | 5 | 12 | 57 | 23 | 8 | 0 |
| LACK | 233 | 19 | 11 | 3 | 2 | 2 | 1 | 0 | 4 | 20 | 19 | 8 | 14 | 9 | 48 | 50 | 22 | 1 |
| TOTAL | 744 | 66 | 92 | 26 | 23 | 9 | 11 | 13 | 18 | 27 | 36 | 27 | 34 | 45 | 155 | 99 | 59 | 4 |

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TABLE-1 DAILY AVERAGES

| DATE | AIR TEMP. C. DEG | HUMIDITY PERCENT | PRECIPITAT. MM | SOLAR RADIATION CAL/SGCM/DAY | NET RADIATION KAD. | WIND SPD (5) M/S | WIND SPD (10) M/S | WIND SPD (20) M/S | WIND SPD (40) M/S |
|-------|------------------|------------------|----------------|------------------------------|--------------------|------------------|-------------------|-------------------|-------------------|
| 1 | 9.7 | 65.0 | 0.0 | 241.2 | -50.6 | 1.0 | 1.3 | 2.4 | 3.4 |
| 2 | 12.3 | 64.7 | 0.0 | 248.4 | -21.7 | 1.6 | 2.8 | 4.3 | 4.7 |
| 3 | 10.8 | 64.0 | 0.0 | 279.6 | -64.3 | 1.1 | 1.8 | 3.0 | 3.9 |
| 4 | 11.9 | 74.2 | 0.0 | 233.4 | -42.1 | 0.8 | 1.2 | 2.2 | 3.2 |
| 5 | 13.3 | 71.0 | 0.0 | 253.2 | -37.4 | 0.9 | 1.5 | 2.6 | 3.4 |
| 6 | 12.4 | 79.4 | 0.0 | 240.6 | -22.9 | 1.0 | 1.2 | 2.1 | 3.0 |
| 7 | 4.3 | 71.6 | 0.5 | 286.8 | -57.7 | 1.0 | 1.2 | 2.2 | 3.5 |
| 8 | 7.5 | 64.3 | 0.0 | 999.9 | -57.1 | 1.0 | 1.1 | 2.3 | 3.2 |
| 9 | 10.5 | 69.0 | 0.0 | 290.4 | -75.1 | 0.9 | 1.2 | 2.7 | 3.6 |
| 10 | 14.3 | 69.5 | 0.0 | 195.0 | -45.7 | 1.9 | 2.9 | 5.0 | 5.4 |
| 11 | 10.4 | 52.9 | 0.0 | 285.0 | 999.9 | 2.1 | 3.0 | 4.7 | 6.2 |
| 12 | 999.9 | 999.9 | 0.0 | 277.2 | 999.9 | 0.7 | 1.1 | 1.8 | 2.6 |
| 13 | 10.0 | 75.2 | 0.0 | 153.0 | -51.4 | 0.8 | 1.2 | 2.6 | 3.1 |
| 14 | 12.4 | 77.0 | 1.0 | 163.2 | -18.2 | 1.6 | 2.1 | 3.9 | 4.6 |
| 15 | 4.3 | 80.2 | 4.0 | 14.0 | -13.9 | 1.7 | 3.2 | 4.9 | 5.3 |
| 16 | 4.9 | 65.2 | 0.0 | 295.2 | 999.9 | 0.7 | 1.0 | 2.0 | 3.5 |
| 17 | 6.3 | 76.7 | 0.0 | 64.2 | 999.9 | 0.4 | 0.8 | 1.9 | 3.4 |
| 18 | 13.8 | 82.2 | 0.0 | 184.5 | -16.5 | 0.5 | 0.4 | 1.5 | 2.4 |
| 19 | 12.9 | 92.1 | 25.5 | 46.8 | 999.9 | 2.3 | 3.7 | 6.3 | 6.9 |
| 20 | 15.0 | 95.1 | 193.5 | 999.9 | 999.9 | 3.2 | 3.7 | 6.1 | 7.9 |
| 21 | 15.1 | 60.2 | 0.0 | 274.2 | -40.4 | 2.8 | 3.6 | 6.1 | 7.4 |
| 22 | 11.5 | 71.2 | 0.0 | 999.9 | 999.9 | 0.9 | 1.3 | 2.9 | 3.5 |
| 23 | 6.1 | 64.0 | 0.0 | 999.9 | 999.9 | 1.2 | 2.4 | 4.1 | 4.5 |
| 24 | 4.7 | 58.7 | 0.0 | 324.8 | -80.6 | 0.9 | 1.2 | 3.0 | 3.3 |
| 25 | 5.2 | 69.1 | 0.0 | 252.0 | -40.4 | 0.6 | 0.7 | 1.6 | 2.6 |
| 26 | 7.7 | 88.7 | 7.0 | 51.0 | 999.9 | 0.5 | 0.5 | 1.3 | 2.0 |
| 27 | 4.5 | 93.4 | 1.5 | 44.0 | -9.7 | 0.5 | 1.0 | 2.3 | 3.0 |
| 28 | 4.4 | 78.2 | 0.5 | 223.8 | -28.3 | 0.9 | 0.7 | 1.9 | 2.8 |
| 29 | 999.9 | 999.9 | 0.0 | 999.9 | 999.9 | 999.9 | 999.9 | 2.4 | 3.9 |
| 30 | -0.4 | 65.1 | 0.0 | 253.8 | -98.6 | 1.2 | 1.4 | 2.6 | 3.6 |
| MONTH | 7.6 | 72.4 | 241.5 | 208.1 | -42.1 | 1.2 | 1.7 | 3.1 | 4.0 |
| LACK | 9 | 9 | 0 | 50 | 174 | 16 | 16 | 0 | 8 |

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TABLE-2 HOURLY AVERAGES AND STANDARD DEVIATIONS

| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|------|------|------|------|------|------|
| WIND SPD | | | | | | | | | | | | | | | | | | | | | | | | |
| H= 5M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 0.9 | 0.8 | 0.9 | 0.9 | 0.8 | 0.8 | 0.7 | 1.1 | 1.3 | 1.6 | 2.0 | 2.1 | 2.2 | 2.2 | 2.0 | 1.3 | 0.7 | 0.9 | 0.8 | 0.8 | 0.7 | 0.9 | 0.9 | 0.9 |
| SIGMA | 1.1 | 1.1 | 1.1 | 0.9 | 0.9 | 0.8 | 0.7 | 0.7 | 0.8 | 0.8 | 1.1 | 1.0 | 1.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.2 | 1.1 | 1.0 | 1.0 | 0.9 | 1.0 | 1.1 |
| H= 10M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 1.4 | 1.4 | 1.4 | 1.5 | 1.2 | 1.2 | 1.3 | 1.3 | 1.8 | 2.1 | 2.5 | 2.6 | 2.5 | 2.7 | 2.5 | 1.9 | 1.6 | 1.3 | 1.5 | 1.2 | 1.4 | 1.5 | 1.3 | 1.4 |
| SIGMA | 1.5 | 1.7 | 1.4 | 1.2 | 1.2 | 1.2 | 1.1 | 1.1 | 1.4 | 1.6 | 1.7 | 1.8 | 1.7 | 1.8 | 1.6 | 1.7 | 1.6 | 1.5 | 1.5 | 1.2 | 1.3 | 1.6 | 1.7 | 1.6 |
| H= 20M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 2.9 | 2.7 | 2.9 | 3.1 | 2.6 | 2.4 | 2.5 | 2.3 | 2.7 | 3.3 | 4.1 | 4.2 | 4.2 | 4.2 | 3.9 | 3.5 | 2.7 | 2.7 | 2.9 | 2.5 | 2.9 | 2.9 | 2.8 | 2.9 |
| SIGMA | 2.4 | 2.1 | 1.8 | 1.9 | 1.7 | 2.0 | 1.2 | 1.6 | 2.0 | 2.1 | 2.4 | 2.4 | 2.3 | 2.2 | 2.4 | 2.3 | 2.4 | 2.1 | 2.1 | 1.8 | 2.2 | 2.6 | 2.5 | 2.4 |
| H= 43M | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 4.2 | 4.3 | 4.1 | 4.6 | 4.0 | 3.9 | 3.8 | 3.1 | 3.2 | 3.5 | 4.2 | 4.2 | 4.5 | 4.4 | 4.5 | 3.9 | 3.2 | 3.7 | 3.8 | 3.9 | 3.9 | 4.3 | 4.0 | 4.1 |
| SIGMA | 2.5 | 2.1 | 1.8 | 1.7 | 1.6 | 1.8 | 1.3 | 1.5 | 2.0 | 2.1 | 2.8 | 2.7 | 2.9 | 2.8 | 2.6 | 2.4 | 2.5 | 2.3 | 2.3 | 2.0 | 1.8 | 2.2 | 2.1 | 2.4 |
| TEMPERATURE | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 6.0 | | | 5.6 | | 11.3 | | | 14.2 | | | 13.8 | | | 10.7 | | | 8.4 | | | 6.8 | |
| SIGMA | | | 4.5 | | | 4.6 | | 4.2 | | | 4.3 | | | 4.3 | | | 4.3 | | | 4.6 | | | 4.8 | |
| HUMIDITY | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 84.9 | | | 83.1 | | 65.4 | | | 56.3 | | | 59.4 | | | 69.7 | | | 77.9 | | | 82.4 | |
| SIGMA | | | 6.2 | | | 9.8 | | 13.5 | | | 20.4 | | | 19.2 | | | 17.0 | | | 10.5 | | | 8.1 | |
| LAPSE RATE | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 2.5 | | | 2.9 | | -1.4 | | | -2.3 | | | -1.3 | | | 2.0 | | | 2.2 | | | 2.7 | |
| SIGMA | | | 3.3 | | | 2.7 | | 1.3 | | | 1.3 | | | 0.6 | | | 3.1 | | | 3.7 | | | 3.4 | |
| STABILITY RATIO | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 5.1 | | | 5.7 | | -1.5 | | | -1.1 | | | -0.6 | | | 3.3 | | | 3.9 | | | 5.3 | |
| SIGMA | | | 6.8 | | | 8.2 | | 3.3 | | | 1.4 | | | 1.2 | | | 6.3 | | | 7.7 | | | 6.8 | |
| RADIATION | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | -2.6 | -2.8 | -3.0 | -2.7 | -2.7 | -2.6 | -2.6 | 8.6 | 19.5 | 27.1 | 33.1 | 36.3 | 32.4 | 26.1 | 16.6 | 6.0 | -2.0 | -3.0 | -3.0 | -3.1 | -3.0 | -3.0 | -2.7 | -2.7 |
| SIGMA | 1.8 | 1.7 | 1.6 | 1.7 | 1.7 | 1.7 | 1.6 | 4.8 | 8.9 | 12.8 | 14.9 | 15.4 | 15.2 | 13.0 | 8.7 | 3.8 | 2.4 | 2.1 | 2.0 | 1.8 | 1.8 | 1.9 | 1.9 | 1.9 |

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TABLE-3 FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSF | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|-----|----|-----|----|-----|----|-----|---|-----|----|-----|----|-----|-----|-----|----|------|
| 10M | 109 | 76 | 32 | 31 | 8 | 0 | 5 | 7 | 8 | 13 | 19 | 26 | 57 | 53 | 117 | 79 | 39 | 15 |
| 45M | 9 | 76 | 73 | 29 | 10 | 11 | 9 | 12 | 4 | 12 | 35 | 28 | 33 | 42 | 137 | 134 | 58 | 8 |

TABLE-4 PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSF | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|-----|------|
| 10M | 15.5 | 10.8 | 7.4 | 4.4 | 1.1 | 0.9 | 0.7 | 1.0 | 1.1 | 1.8 | 2.7 | 3.7 | 8.1 | 7.5 | 16.6 | 11.2 | 5.5 | 0.0 |
| 45M | 1.3 | 10.7 | 10.3 | 4.1 | 1.4 | 1.5 | 1.3 | 1.7 | 0.6 | 1.7 | 4.9 | 3.9 | 4.6 | 5.9 | 19.2 | 18.8 | 8.1 | 0.0 |

TABLE-5 FREQUENCY DISTRIBUTION OF WIND DIRECTION AND SPEED

| | TOTL | NNE | NE | ENE | E | ESE | SE | SSF | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|---------|------|-----|----|-----|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|------|
| 10M | | | | | | | | | | | | | | | | | | |
| -0.4 | 109 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 172 | 2 | 3 | 4 | 0 | 1 | 1 | 2 | 1 | 3 | 3 | 8 | 16 | 17 | 60 | 38 | 12 | 1 |
| 1.0-1.9 | 169 | 16 | 4 | 7 | 6 | 3 | 2 | 4 | 1 | 7 | 2 | 8 | 24 | 26 | 45 | 20 | 11 | 3 |
| 2.0-2.9 | 99 | 18 | 7 | 5 | 1 | 2 | 1 | 1 | 5 | 2 | 5 | 8 | 9 | 6 | 9 | 11 | 7 | 2 |
| 3.0-3.9 | 56 | 12 | 10 | 9 | 1 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 3 | 3 | 3 | 7 | 5 | 0 |
| 4.0-4.9 | 33 | 11 | 6 | 5 | 0 | 0 | 1 | 0 | 0 | 0 | 4 | 0 | 1 | 1 | 0 | 1 | 2 | 1 |
| 5.0-5.9 | 25 | 8 | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 1 | 1 | 0 |
| 6.0-6.9 | 12 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 |
| 7.0-7.9 | 8 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| 8.0-8.9 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9.0-9.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.0- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45M | | | | | | | | | | | | | | | | | | |
| -0.4 | 9 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 0 | 0 |
| 1.0-1.9 | 55 | 2 | 4 | 1 | 2 | 3 | 1 | 2 | 1 | 0 | 3 | 3 | 5 | 5 | 9 | 11 | 3 | 0 |
| 2.0-2.9 | 143 | 13 | 4 | 1 | 2 | 3 | 4 | 4 | 0 | 1 | 12 | 12 | 7 | 10 | 41 | 15 | 14 | 0 |
| 3.0-3.9 | 187 | 20 | 8 | 3 | 2 | 3 | 3 | 3 | 0 | 7 | 6 | 6 | 3 | 15 | 44 | 39 | 25 | 0 |
| 4.0-4.9 | 142 | 15 | 11 | 11 | 2 | 1 | 0 | 1 | 2 | 1 | 3 | 4 | 11 | 8 | 24 | 32 | 6 | 0 |
| 5.0-5.9 | 66 | 12 | 7 | 3 | 0 | 0 | 0 | 2 | 0 | 0 | 3 | 2 | 0 | 2 | 12 | 20 | 3 | 0 |
| 6.0-6.9 | 35 | 7 | 7 | 5 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 0 | 1 | 0 | 4 | 6 | 1 | 0 |
| 7.0-7.9 | 25 | 4 | 8 | 3 | 1 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 0 | 0 | 1 | 3 | 2 | 0 |
| 8.0-8.9 | 11 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 1 | 0 |
| 9.0-9.9 | 17 | 0 | 6 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 5 | 0 | 0 |
| 10.0- | 26 | 1 | 15 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 3 | 0 | 0 | 2 | 3 | 0 |

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TABLE-6 FREQUENCY DISTRIBUTION OF STABILITY CATEG

| | TOTL | NNE | NE | ENE | E | ESE | SE | SSF | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-------|------|-----|----|-----|----|-----|----|-----|---|-----|----|-----|----|-----|-----|-----|----|------|
| CATEG | | | | | | | | | | | | | | | | | | |
| A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| A-B | 38 | 1 | 2 | 1 | 2 | 3 | 2 | 1 | 0 | 1 | 5 | 3 | 2 | 3 | 2 | 6 | 3 | 1 |
| B | 59 | 1 | 1 | 1 | 1 | 3 | 3 | 4 | 1 | 2 | 4 | 9 | 6 | 3 | 7 | 8 | 4 | 1 |
| B-C | 11 | 0 | 1 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 |
| C | 11 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 | 1 | 0 | 1 | 1 | 0 | 0 |
| C-D | 9 | 1 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| D1 | 92 | 14 | 18 | 4 | 2 | 1 | 1 | 1 | 0 | 3 | 5 | 3 | 12 | 4 | 6 | 13 | 4 | 1 |
| D2 | 146 | 27 | 9 | 5 | 1 | 1 | 1 | 2 | 1 | 1 | 7 | 1 | 1 | 7 | 28 | 30 | 13 | 1 |
| E | 13 | 2 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 3 | 2 | 0 | 0 |
| F | 4 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| G | 123 | 13 | 4 | 0 | 1 | 0 | 1 | 0 | 0 | 1 | 7 | 3 | 3 | 14 | 31 | 31 | 14 | 0 |
| LACK | 224 | 16 | 31 | 5 | 3 | 5 | 1 | 4 | 1 | 3 | 5 | 5 | 6 | 11 | 57 | 42 | 19 | 10 |
| TOTAL | 720 | 76 | 73 | 29 | 10 | 13 | 9 | 12 | 4 | 13 | 35 | 28 | 33 | 42 | 137 | 134 | 58 | 14 |

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TABLE-1 DAILY AVERAGES

| DATE | AIR TEMP. C/DEG | HUMIDITY PERCENT | PRECIPIT. MM | SOLAR RAD. CAL/30CM/DAY | NET RAD. CAL/30CM/DAY | WIND SPD(5) M/S | WIND SPD(10) M/S | WIND SPD(20) M/S | WIND SPD(40) M/S |
|-------|-----------------|------------------|--------------|-------------------------|-----------------------|-----------------|------------------|------------------|------------------|
| 1 | -0.1 | 67.1 | 0.0 | 240.0 | -69.1 | 0.7 | 0.8 | 2.3 | 3.6 |
| 2 | 0.2 | 75.1 | 0.0 | 61.2 | -35.6 | 0.8 | 0.9 | 2.5 | 3.5 |
| 3 | 3.8 | 61.1 | 0.0 | 202.2 | -68.5 | 1.1 | 1.2 | 2.7 | 3.6 |
| 4 | 1.2 | 63.4 | 0.0 | 240.6 | -75.9 | 0.9 | 1.1 | 2.4 | 4.0 |
| 5 | 1.1 | 47.7 | 0.0 | 252.0 | -63.7 | 0.7 | 0.9 | 2.7 | 3.5 |
| 6 | 999.9 | 999.9 | 0.0 | 999.9 | -52.4 | 0.3 | 0.5 | 1.7 | 3.6 |
| 7 | 4.4 | 73.0 | 0.0 | 251.4 | -40.4 | 1.0 | 1.0 | 2.4 | 3.2 |
| 8 | 2.3 | 63.7 | 0.0 | 243.0 | -72.7 | 1.2 | 1.3 | 3.1 | 4.0 |
| 9 | 0.1 | 59.9 | 0.0 | 246.0 | -77.0 | 0.8 | 0.9 | 2.6 | 3.3 |
| 10 | 2.4 | 61.5 | 0.0 | 262.2 | -63.7 | 0.8 | 0.9 | 2.0 | 3.4 |
| 11 | 2.6 | 66.4 | 0.0 | 230.4 | -64.3 | 0.7 | 0.8 | 2.1 | 3.4 |
| 12 | 4.5 | 999.9 | 0.0 | 66.6 | 999.9 | 0.4 | 1.0 | 2.3 | 3.1 |
| 13 | 9.5 | 999.9 | 4.5 | 62.5 | -40.1 | 1.5 | 2.1 | 3.7 | 4.9 |
| 14 | 2.8 | 51.6 | 0.0 | 258.6 | -82.3 | 1.3 | 1.7 | 3.5 | 4.1 |
| 15 | 3.8 | 60.1 | 0.0 | 252.6 | -61.5 | 0.8 | 1.0 | 2.5 | 3.4 |
| 16 | 4.2 | 79.7 | 0.0 | 244.8 | -46.9 | 0.6 | 0.8 | 1.9 | 2.9 |
| 17 | 6.0 | 78.4 | 0.0 | 100.2 | -24.1 | 0.8 | 1.2 | 3.0 | 3.9 |
| 18 | 6.5 | 61.0 | 0.0 | 226.8 | -48.7 | 1.5 | 1.8 | 3.3 | 4.8 |
| 19 | 2.3 | 51.4 | 0.0 | 153.0 | -40.4 | 0.8 | 0.8 | 1.7 | 2.9 |
| 20 | 1.8 | 64.0 | 0.0 | 107.4 | -60.4 | 0.5 | 0.6 | 1.4 | 2.5 |
| 21 | 3.3 | 67.1 | 0.0 | 211.8 | -40.9 | 0.9 | 1.2 | 2.6 | 3.4 |
| 22 | 5.8 | 80.5 | 0.0 | 77.4 | -16.7 | 0.8 | 1.1 | 2.0 | 3.1 |
| 23 | 4.3 | 42.5 | 0.0 | 179.4 | -40.4 | 1.0 | 1.2 | 2.3 | 3.3 |
| 24 | 4.3 | 62.6 | 0.0 | 101.4 | -25.3 | 1.0 | 1.5 | 2.9 | 4.1 |
| 25 | -0.6 | 84.9 | 0.0 | 18.0 | -11.0 | 2.4 | 4.4 | 6.3 | 6.7 |
| 26 | -1.0 | 75.1 | 0.0 | 60.6 | -11.4 | 1.4 | 2.2 | 3.8 | 4.2 |
| 27 | 0.2 | 54.5 | 0.0 | 999.9 | 999.9 | 1.3 | 1.4 | 2.6 | 4.0 |
| 28 | -1.2 | 999.9 | 0.0 | 268.2 | -49.1 | 0.7 | 0.8 | 1.6 | 999.9 |
| 29 | 2.2 | 999.9 | 0.0 | 240.6 | -72.7 | 0.8 | 1.2 | 1.9 | 999.9 |
| 30 | 2.6 | 999.9 | 0.0 | 84.6 | -66.0 | 0.5 | 1.0 | 1.4 | 2.8 |
| 31 | 3.0 | 87.0 | 20.5 | 20.1 | 999.9 | 1.0 | 1.7 | 2.5 | 4.0 |
| MONTH | 2.7 | 65.7 | 27.0 | 172.5 | -51.1 | 0.9 | 1.3 | 2.6 | 3.7 |
| LACK | 3 | 35 | 0 | 25 | 66 | 11 | 8 | 17 | 61 |

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TABLE-2 HOURLY AVERAGES AND STANDARD DEVIATIONS

| | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | |
|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| WIND SPD | | | | | | | | | | | | | | | | | | | | | | | | | |
| H=5M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 0.6 | 0.7 | 0.8 | 0.7 | 0.7 | 0.7 | 0.8 | 1.1 | 1.2 | 1.5 | 1.5 | 1.7 | 1.6 | 1.6 | 1.4 | 0.8 | 0.8 | 0.7 | 0.6 | 0.5 | 0.5 | 0.7 | 0.6 | 0.7 | |
| SIGMA | 0.5 | 0.7 | 0.7 | 0.7 | 0.7 | 0.5 | 0.7 | 0.7 | 0.5 | 0.7 | 0.7 | 0.9 | 0.8 | 0.8 | 0.8 | 0.9 | 0.8 | 0.8 | 0.7 | 0.7 | 0.5 | 0.7 | 0.6 | 0.7 | |
| H=10M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 1.1 | 1.3 | 1.2 | 1.2 | 1.2 | 1.3 | 1.3 | 1.4 | 1.5 | 1.6 | 1.8 | 1.7 | 1.7 | 1.8 | 1.6 | 1.1 | 1.0 | 1.1 | 1.0 | 0.8 | 0.8 | 1.1 | 1.1 | 1.0 | |
| SIGMA | 0.8 | 1.1 | 0.9 | 1.1 | 1.1 | 0.8 | 1.1 | 1.1 | 1.0 | 1.0 | 1.2 | 1.2 | 1.2 | 0.9 | 0.9 | 1.1 | 1.0 | 1.0 | 0.9 | 0.9 | 0.7 | 1.2 | 1.0 | 0.9 | |
| H=20M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 2.4 | 2.6 | 2.7 | 2.7 | 2.5 | 2.8 | 2.7 | 2.7 | 2.5 | 2.7 | 3.1 | 3.0 | 2.9 | 3.0 | 2.9 | 2.2 | 2.3 | 2.6 | 2.3 | 2.0 | 2.1 | 2.4 | 2.6 | 2.4 | |
| SIGMA | 1.2 | 1.5 | 1.5 | 1.4 | 1.3 | 1.2 | 1.4 | 1.3 | 1.3 | 1.6 | 1.6 | 1.8 | 1.8 | 1.5 | 1.3 | 1.5 | 1.3 | 1.5 | 1.3 | 1.0 | 1.3 | 1.7 | 1.7 | 1.4 | |
| H=45M | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | 3.9 | 4.5 | 4.1 | 4.3 | 4.2 | 4.1 | 4.4 | 3.5 | 3.2 | 3.3 | 3.3 | 3.3 | 3.3 | 3.6 | 3.4 | 3.0 | 3.6 | 3.7 | 3.6 | 3.3 | 3.5 | 4.1 | 3.9 | 3.9 | |
| SIGMA | 0.9 | 1.4 | 1.5 | 1.2 | 1.3 | 1.1 | 1.5 | 1.4 | 1.4 | 1.5 | 1.7 | 1.9 | 1.9 | 1.7 | 1.4 | 1.5 | 1.5 | 1.7 | 2.0 | 1.7 | 1.2 | 1.9 | 1.5 | 0.9 | |
| TEMPERATURE | | | | | | | | | | | | | | | | | | | | | | | | | |
| TURE | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | -0.9 | | | | -1.3 | | 3.3 | | | 7.9 | | | 7.5 | | 4.0 | | 1.7 | | | | -0.3 | | | |
| SIGMA | | 3.2 | | | | 3.4 | | 3.3 | | | 3.5 | | | 3.4 | | 2.9 | | 4.0 | | | | 3.0 | | | |
| HUMIDITY | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 76.6 | | | 79.1 | | 56.5 | | | 52.8 | | | 53.2 | | 64.3 | | 70.3 | | | | 71.4 | | | |
| SIGMA | | | 11.8 | | | 12.9 | | 31.6 | | | 19.6 | | | 17.1 | | 11.4 | | 11.8 | | | | 29.9 | | | |
| LAPSE RATE | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 3.1 | | | 4.4 | | -1.1 | | | -2.5 | | | -1.4 | | 2.1 | | 3.4 | | | | 2.7 | | | |
| SIGMA | | | 3.7 | | | 4.0 | | 2.0 | | | 1.4 | | | 0.6 | | 3.3 | | 3.4 | | | | 3.1 | | | |
| STABILITY RATIO | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | | | 4.2 | | | 6.4 | | -1.2 | | | -2.2 | | | -1.1 | | 3.5 | | 6.4 | | | | 4.7 | | | |
| SIGMA | | | 8.2 | | | 12.7 | | 2.3 | | | 3.6 | | | 1.3 | | 8.4 | | 11.7 | | | | 6.3 | | | |
| RADIATION | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEAN | -3.5 | -3.6 | -3.4 | -3.4 | -3.6 | -3.4 | -3.4 | 6.1 | 15.9 | 23.3 | 29.3 | 30.3 | 27.8 | 21.1 | 13.1 | 4.1 | -3.0 | -3.4 | -3.4 | -3.4 | -3.2 | -3.4 | -3.6 | -3.5 | |
| SIGMA | 1.9 | 1.7 | 1.8 | 1.7 | 1.7 | 1.6 | 1.7 | 4.6 | 8.9 | 12.5 | 15.5 | 16.3 | 14.4 | 11.8 | 6.8 | 2.3 | 2.0 | 2.0 | 2.0 | 2.0 | 1.8 | 1.8 | 1.8 | 1.8 | |

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TABLE-3 FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|-----|----|-----|----|-----|----|-----|---|-----|----|-----|----|-----|-----|-----|----|------|
| 10M | 119 | 49 | 20 | 20 | 8 | 4 | 1 | 3 | 3 | 8 | 9 | 18 | 49 | 118 | 168 | 62 | 33 | 52 |
| 45M | 3 | 60 | 34 | 15 | 17 | 4 | 4 | 7 | 2 | 7 | 7 | 17 | 39 | 62 | 210 | 148 | 48 | 60 |

TABLE-4 PERCENTAGE FREQUENCY DISTRIBUTION OF WIND DIRECTION

| | CALM | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|-----|------|
| 10M | 17.2 | 7.1 | 2.9 | 2.9 | 1.2 | 0.6 | 0.1 | 0.4 | 0.4 | 1.2 | 1.3 | 2.6 | 7.1 | 17.1 | 24.3 | 9.0 | 4.8 | 0.0 |
| 45M | 0.4 | 8.8 | 5.0 | 2.2 | 2.5 | 0.6 | 0.6 | 1.0 | 0.3 | 1.0 | 1.0 | 2.5 | 5.7 | 9.1 | 30.7 | 21.6 | 7.0 | 0.0 |

TABLE-5 FREQUENCY DISTRIBUTION OF W. DIR. AND SPEED

| | TOTAL | NNE | NE | ENE | E | ESE | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|---------|-------|-----|----|-----|---|-----|----|-----|---|-----|----|-----|----|-----|----|-----|----|------|
| 10M | | | | | | | | | | | | | | | | | | |
| -0.4 | 119 | | | | | | | | | | | | | | | | | |
| 0.5-0.9 | 208 | 3 | 1 | 1 | 2 | 0 | 1 | 0 | 1 | 3 | 4 | 9 | 14 | 42 | 78 | 27 | 7 | 15 |
| 1.0-1.9 | 265 | 8 | 1 | 8 | 5 | 4 | 0 | 3 | 1 | 3 | 4 | 7 | 28 | 64 | 70 | 18 | 13 | 28 |
| 2.0-2.9 | 83 | 11 | 7 | 7 | 1 | 0 | 0 | 0 | 1 | 2 | 1 | 2 | 5 | 8 | 16 | 12 | 9 | 1 |
| 3.0-3.9 | 32 | 13 | 1 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 1 | 4 | 4 | 0 |
| 4.0-4.9 | 17 | 7 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 |
| 5.0-5.9 | 9 | 5 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6.0-6.9 | 3 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7.0-7.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8.0-8.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9.0-9.9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10.0- | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45M | | | | | | | | | | | | | | | | | | |
| -0.4 | 3 | | | | | | | | | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 2 | 0 |
| 0.5-0.9 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 4 | 4 | 2 | 10 | 4 | 10 | 0 |
| 1.0-1.9 | 51 | 5 | 2 | 2 | 3 | 0 | 1 | 2 | 0 | 1 | 1 | 4 | 7 | 9 | 40 | 20 | 13 | 5 |
| 2.0-2.9 | 116 | 6 | 2 | 3 | 4 | 2 | 2 | 2 | 1 | 0 | 3 | 4 | 7 | 18 | 65 | 47 | 12 | 0 |
| 3.0-3.9 | 209 | 10 | 9 | 5 | 7 | 2 | 1 | 3 | 1 | 4 | 3 | 6 | 16 | 18 | 65 | 47 | 12 | 0 |
| 4.0-4.9 | 160 | 17 | 3 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 22 | 57 | 43 | 9 | 0 |
| 5.0-5.9 | 85 | 9 | 5 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 | 32 | 21 | 2 | 0 |
| 6.0-6.9 | 18 | 7 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 4 | 0 | 0 |
| 7.0-7.9 | 18 | 4 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 0 |
| 8.0-8.9 | 7 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 |
| 9.0-9.9 | 6 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 |
| 10.0- | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 |

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TABLE-6 FREQUENCY DISTRIBUTION OF STABILITY CATEG

| CATEG | TOTAL | NNE | NE | ENE | E | ESP | SE | SSE | S | SSW | SW | WSW | W | WNW | NW | NNW | N | LACK |
|-------|-------|-----|----|-----|----|-----|----|-----|---|-----|----|-----|----|-----|-----|-----|----|------|
| A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| A-B | 58 | 1 | 0 | 2 | 3 | 1 | 2 | 2 | 0 | 0 | 1 | 3 | 10 | 5 | 14 | 2 | 2 | 10 |
| B | 70 | 2 | 3 | 5 | 5 | 1 | 0 | 2 | 0 | 1 | 1 | 4 | 9 | 6 | 14 | 5 | 7 | 5 |
| B-C | 5 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 |
| C | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 1 | 1 | 2 | 0 |
| C-D | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D1 | 111 | 22 | 16 | 0 | 2 | 1 | 1 | 2 | 1 | 3 | 2 | 3 | 7 | 5 | 21 | 11 | 8 | 6 |
| D2 | 123 | 23 | 10 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 0 | 4 | 13 | 39 | 21 | 3 | 5 |
| E | 13 | 1 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 3 | 2 | 0 |
| F | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 2 | 0 | 1 |
| G | 257 | 6 | 0 | 2 | 4 | 1 | 1 | 1 | 0 | 1 | 1 | 5 | 6 | 15 | 96 | 76 | 17 | 25 |
| LACK | 91 | 5 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 11 | 29 | 26 | 7 | 9 |
| TOTAL | 744 | 61 | 34 | 15 | 17 | 4 | 4 | 7 | 2 | 7 | 7 | 17 | 39 | 63 | 210 | 148 | 48 | 61 |