

資料

筑波大学農林技術センター演習林気象報告 — 井川演習林気象観測データ (2011年) —

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はじめに

農林技術センター井川演習林では1967年より総合気象観測装置による気象観測業務を実施し、1983年分からは月報を毎年演習林報告に掲載している。観測項目は、気温、湿度、降水量、日射量、風向、風速の6要素である。

本報告では、井川演習林内の総合気象Ⅰ観測地点における2011年1月から12月までの1年間の観測資料を取りまとめたので報告する。2011年は特に観測上のトラブルもなく、全期間にわたり順調に観測を行うことができた。観測サイト総合気象Ⅰの場所および観測データの取りまとめ方針等は次に示すとおりである。

1 観測場所

井川演習林 総合Ⅰ観測地点：静岡県静岡市葵区田代字東河内1246-1

東経 138° 13.6′, 北緯 35° 19.9′, 標高1,175m

※2002年測量法改正による世界測地系に基づく値

2 観測機器

表1 参照

3 気象月報取りまとめ方法

(1) 日 界：24時

(2) 気 温

最 高：当日の毎正時の最大値

最 低：当日の毎正時の最小値

日平均：当日毎正時の値の算術平均値

(3) 相対湿度

最 高：当日の毎正時の最大値

最 低：当日の毎正時の最小値

日平均：当日毎正時の値の算術平均値

(4) 降水量

当日の日合計値

(5) 日射量

当日の日合計値をメガジュール (MJ/m²) 単位に変換。

(6) 風 向

毎正時の値の最頻値を16方位で表示。

表1 観測項目と観測方法の一覧

| 項 目 | センサー | ロ ガ | サンプル方法 |
|-------|---|-------------------|--------|
| 気温・湿度 | 8150.TFF10 (Lufft社) | OPUS II (Lufft社) | 1時間平均 |
| 気温・湿度 | KDC-S2 (ロトロニック社) | OPUS II (Lufft社) | 1時間平均 |
| 降 水 量 | 転倒マス型0.5mm/パルス2010年は総合Ⅰでの降水量が欠測であるため、総合Ⅱの降水量を掲載 | HOBO H07 (Onset社) | 1時間積算 |
| 日 射 | 8346.OP | OPUS II (Lufft社) | 1時間平均 |
| 風向・風速 | セパレート型風向風速計 | OPUS II (Lufft社) | ベクトル平均 |

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(7) 風 速

日平均：当日毎正時の値の算術平均値
 日最大：当日の毎正時の最大値

場合は「-」の記号を記入、それ以下の場合は欠測日を除いた日による合計値・平均値を記入し、観測日数を（ ）内に記入

4 データロガーの回収

データログのデータ回収はパソコンにより行った。

2011年3月現在、総合気象 I 以外にも演習林内5箇所において気象観測を行っている（下表参照）。

5 計算および平均値の取り扱い

- (1) 計算はすべて四捨五入法による
- (2) 日平均は、20%以上記録が欠けている場合は欠測とし、「-」の記号を記入
- (3) 月合計・平均は20%以上記録が欠けている

これらの観測地点における観測データは演習林のWebサイトで公開中である（一部アクセス制限あり）。アドレスは以下のとおりである。

<http://www.nourin.tsukuba.ac.jp/~forest/kishou/index.html>

表2 観測地点一覧

| 観測地点 | 北 緯 | 東 経 | 標 高 |
|-------|--------------|-------------|---------|
| 総合気象Ⅱ | 138° 13' 16" | 35° 20' 54" | 1,587 m |
| 無 岳 | 138° 13' 30" | 35° 20' 26" | 1,060 m |
| 東 無 岳 | 138° 14' 29" | 35° 20' 24" | 1,685 m |
| 2 林 班 | 138° 13' 14" | 35° 20' 14" | 1,330 m |
| 3 林 班 | 138° 13' 10" | 35° 20' 17" | 1,400 m |
| 井川事務所 | 138° 13' 23" | 35° 13' 23" | 755 m |

筑波大学農林技術センター演習林気象報告 (井川演習林)

観測地点：総合気象 I 2011年 1月 気象月報

井川演習林

| 日 | 気 温 °C | | | | 降水量 mm | 水平面日射量 MJ/m ² | 相 対 湿 度 % | | | 風 速 m/s | | 風 向 | 記 事 |
|----|--------|------|-------|------|-----------|-----------------------------|-----------|------|------|---------|-----|-----|----------------------------|
| | 9時気温 | 最 高 | 最 低 | 日平均 | | | 最 大 | 最 小 | 日平均 | 最 大 | 日平均 | | |
| 1 | -4.0 | 3.5 | -5.2 | -2.4 | - | 5.6 | 58.0 | 31.5 | 42.9 | 3.5 | 0.3 | ENE | 冬季のため降水量の観測 休止 (3/31まで) |
| 2 | -3.1 | 4.6 | -4.6 | -1.6 | - | 7.5 | 64.0 | 36.0 | 53.1 | 2.4 | 0.2 | S | |
| 3 | -5.1 | 3.1 | -6.2 | -2.6 | - | 6.3 | 79.0 | 48.0 | 68.3 | 1.5 | 0.2 | SE | |
| 4 | -3.8 | 3.0 | -5.3 | -2.6 | - | 7.8 | 74.5 | 28.5 | 52.3 | 2.9 | 0.3 | ENE | |
| 5 | -2.9 | 3.7 | -6.0 | -1.5 | - | 6.0 | 60.5 | 20.0 | 43.8 | 9.8 | 1.0 | SW | |
| 6 | -2.9 | 3.7 | -4.9 | -1.5 | - | 8.0 | 64.0 | 23.5 | 38.3 | 3.2 | 0.9 | NNE | |
| 7 | -6.6 | 2.3 | -7.6 | -4.7 | - | 8.2 | 50.0 | 18.5 | 35.2 | 1.5 | 0.3 | NE | |
| 8 | -7.2 | 5.1 | -8.7 | -2.4 | - | 8.3 | 52.5 | 4.5 | 31.7 | 4.8 | 0.7 | ESE | |
| 9 | 0.7 | 5.7 | -3.3 | 0.9 | - | 8.2 | 56.0 | 9.0 | 33.0 | 5.4 | 0.8 | SSW | |
| 10 | -7.0 | 2.7 | -7.5 | -3.8 | - | 8.5 | 66.5 | 27.5 | 48.2 | 1.9 | 0.4 | SSW | |
| 11 | -4.7 | 2.5 | -7.8 | -3.6 | - | 9.4 | 82.0 | 42.5 | 65.9 | 2.7 | 0.4 | SSW | |
| 12 | -2.3 | 1.3 | -5.5 | -2.6 | - | 6.5 | 81.0 | 32.0 | 45.5 | 1.9 | 0.3 | SSW | |
| 13 | -5.5 | 2.9 | -6.4 | -3.6 | - | 8.7 | 68.0 | 16.5 | 39.8 | 2.1 | 0.4 | NE | |
| 14 | -5.4 | 1.5 | -7.0 | -3.7 | - | 8.4 | 66.5 | 29.5 | 44.4 | 5.3 | 1.2 | NE | |
| 15 | -0.9 | -0.9 | -7.4 | -3.1 | - | 2.0 | 76.5 | 39.5 | 54.9 | 5.5 | 0.9 | S | |
| 16 | -7.9 | -6.6 | -9.3 | -7.8 | - | 5.8 | 58.5 | 33.0 | 44.2 | 5.0 | 0.9 | NE | |
| 17 | -7.2 | -0.7 | -9.3 | -4.7 | - | 7.6 | 47.0 | 29.0 | 38.4 | 9.3 | 1.4 | NE | |
| 18 | -4.1 | 4.9 | -5.9 | -2.3 | - | 8.8 | 58.5 | 23.0 | 43.0 | 2.2 | 0.5 | NE | |
| 19 | -3.6 | 5.5 | -5.1 | -1.5 | - | 9.1 | 55.0 | 15.5 | 37.5 | 5.3 | 0.5 | NE | |
| 20 | -3.0 | 3.1 | -4.8 | -2.3 | - | 9.0 | 41.5 | 17.5 | 32.2 | 2.9 | 0.9 | SSW | |
| 21 | -5.7 | 3.5 | -6.7 | -3.2 | - | 8.9 | 75.0 | 41.0 | 60.7 | 0.9 | 0.2 | NE | |
| 22 | -0.7 | 5.3 | -5.2 | -1.2 | - | 9.2 | 67.5 | 17.0 | 35.6 | 3.7 | 1.1 | S | |
| 23 | -4.7 | 5.7 | -5.5 | -1.6 | - | 8.3 | 71.0 | 12.0 | 44.0 | 4.0 | 0.7 | S | |
| 24 | -2.0 | 3.7 | -3.5 | -1.2 | - | 9.3 | 51.5 | 20.5 | 38.2 | 3.1 | 0.5 | SSW | |
| 25 | -4.6 | 4.2 | -6.4 | -2.9 | - | 9.5 | 59.0 | 17.0 | 40.5 | 2.8 | 0.4 | NE | |
| 26 | -4.1 | -0.9 | -6.4 | -4.4 | - | 8.0 | 58.0 | 33.5 | 45.8 | 9.8 | 1.0 | ENE | |
| 27 | -5.2 | 3.0 | -7.3 | -3.6 | - | 10.1 | 38.0 | 16.0 | 29.3 | 1.0 | 0.2 | NE | |
| 28 | -6.0 | 3.4 | -7.4 | -3.4 | - | 9.2 | 68.5 | 8.0 | 42.0 | 3.3 | 0.4 | SSW | |
| 29 | -5.8 | 1.3 | -6.8 | -3.8 | - | 7.6 | 72.0 | 28.0 | 53.9 | 3.1 | 0.6 | S | |
| 30 | -7.7 | -5.0 | -9.0 | -7.3 | - | 5.8 | 70.5 | 31.0 | 44.5 | 5.7 | 0.9 | S | |
| 31 | -10.1 | -2.0 | -11.3 | -7.3 | - | 9.3 | 69.5 | 21.0 | 44.9 | 4.9 | 0.9 | NE | |
| 合計 | | | | | - | 244.9 | | | | | | | |
| 平均 | -4.6 | 2.4 | -6.6 | -3.1 | | 7.9 | 63.2 | 24.8 | 44.3 | 3.9 | 0.6 | | |

観測地点：総合気象 I 2011年 2月 気象月報

井川演習林

| 日 | 気 温 °C | | | | 降水量 mm | 水平面日射量 MJ/m ² | 相 対 湿 度 % | | | 風 速 m/s | | 風 向 | 記 事 |
|----|--------|------|------|------|-----------|-----------------------------|-----------|------|------|---------|-----|-----|-----|
| | 9時気温 | 最 高 | 最 低 | 日平均 | | | 最 大 | 最 小 | 日平均 | 最 大 | 日平均 | | |
| 1 | -3.1 | 7.1 | -7.6 | -1.5 | - | 10.0 | 47.0 | 15.0 | 35.2 | 2.0 | 0.5 | NE | |
| 2 | -3.9 | 5.5 | -4.5 | -0.9 | - | 9.1 | 65.0 | 34.0 | 50.8 | 2.7 | 0.4 | SSW | |
| 3 | -2.7 | 7.3 | -3.4 | 0.4 | - | 10.1 | 86.0 | 21.0 | 48.5 | 2.6 | 0.4 | SSW | |
| 4 | 0.4 | 9.4 | -2.3 | 1.7 | - | 10.1 | 75.5 | 17.0 | 45.7 | 3.4 | 0.5 | S | |
| 5 | -0.6 | 8.2 | -2.6 | 1.7 | - | 6.8 | 53.0 | 4.0 | 28.2 | 3.6 | 0.3 | SSW | |
| 6 | -1.5 | 8.1 | -2.5 | 1.4 | - | 7.7 | 89.5 | 36.0 | 60.0 | 2.1 | 0.3 | SSW | |
| 7 | 0.4 | 10.5 | -0.8 | 3.0 | - | 10.5 | 73.5 | 12.5 | 43.6 | 3.3 | 0.4 | ENE | |
| 8 | 0.0 | 9.5 | -0.9 | 2.5 | - | 10.5 | 89.0 | 11.5 | 60.2 | 2.8 | 0.3 | S | |
| 9 | 1.5 | 2.8 | -2.8 | 0.4 | - | 4.4 | 93.5 | 35.0 | 65.4 | 6.3 | 0.8 | NE | |
| 10 | -3.0 | 2.8 | -4.0 | -1.5 | - | 8.4 | 84.5 | 57.5 | 69.1 | 1.1 | 0.2 | SW | |
| 11 | -2.6 | -0.7 | -3.0 | -1.7 | - | 0.2 | 94.0 | 86.0 | 90.2 | 1.1 | 0.1 | SSW | |
| 12 | -2.4 | -0.9 | -7.2 | -3.0 | - | 1.3 | 95.0 | 70.0 | 86.4 | 1.6 | 0.1 | ESE | |
| 13 | -6.7 | 1.9 | -8.6 | -4.2 | - | 9.8 | 83.5 | 61.0 | 69.8 | 1.2 | 0.1 | ENE | |
| 14 | -2.9 | 0.3 | -5.0 | -2.3 | - | 4.0 | 93.5 | 69.5 | 84.5 | 0.1 | 0.0 | E | |
| 15 | -2.7 | 2.8 | -5.4 | -1.3 | - | 10.0 | 94.5 | 34.0 | 75.6 | 3.7 | 0.3 | ESE | |
| 16 | -4.4 | 6.7 | -6.2 | -0.8 | - | 11.4 | 85.5 | 55.5 | 72.5 | 0.7 | 0.1 | E | |
| 17 | 1.9 | 5.7 | -1.3 | 1.8 | - | 5.2 | 94.0 | 61.0 | 77.6 | 1.6 | 0.1 | E | |
| 18 | 5.4 | 10.2 | 0.5 | 5.2 | - | 10.8 | 95.0 | 23.5 | 62.9 | 3.0 | 0.4 | ENE | |
| 19 | -0.7 | 6.2 | -1.6 | 1.2 | - | 12.4 | 84.0 | 52.5 | 73.4 | 3.2 | 0.6 | SSW | |
| 20 | 1.0 | 7.1 | -1.6 | 2.5 | - | 7.3 | 80.5 | 24.0 | 54.7 | 0.6 | 0.1 | E | |
| 21 | 1.3 | 8.9 | -0.9 | 2.7 | - | 11.3 | 75.5 | 27.5 | 61.6 | 1.5 | 0.2 | ENE | |
| 22 | 1.4 | 10.0 | -2.2 | 1.9 | - | 12.0 | 76.0 | 12.0 | 44.1 | 1.1 | 0.1 | ESE | |
| 23 | -1.2 | 9.2 | -2.7 | 2.1 | - | 11.7 | 81.5 | 25.5 | 53.8 | 2.0 | 0.2 | SW | |
| 24 | 2.2 | 4.0 | 0.9 | 2.5 | - | 2.7 | 94.5 | 86.5 | 91.5 | 0.1 | 0.0 | SSW | |
| 25 | 7.4 | 9.7 | 1.5 | 5.4 | - | 8.3 | 94.5 | 27.0 | 62.6 | 4.0 | 1.0 | S | |
| 26 | -1.2 | 7.2 | -1.6 | 2.1 | - | 11.9 | 81.5 | 20.5 | 55.4 | 4.5 | 0.5 | SSW | |
| 27 | 2.3 | 9.4 | -0.8 | 4.4 | - | 7.6 | 80.5 | 40.0 | 59.6 | 2.6 | 0.4 | NE | |
| 28 | 5.1 | 6.0 | 3.4 | 4.9 | - | 1.7 | 95.0 | 89.0 | 93.6 | 1.7 | 0.2 | SSW | |
| 合計 | | | | | - | 227.0 | | | | | | | |
| 平均 | -0.3 | 6.2 | -2.6 | 1.1 | | 8.1 | 83.4 | 39.6 | 63.4 | 2.3 | 0.3 | | |

観測地点：総合気象 I 2011年 3月 気象月報

井川演習林

| 日 | 気 温 °C | | | | 降水量 mm | 水平面日射量 MJ/m ² | 相 对 湿 度 % | | | 風 速 m/s | | 風 向 | 記 事 |
|----|--------|------|------|------|-----------|-----------------------------|-----------|------|------|---------|-----|-----|-----|
| | 9時気温 | 最 高 | 最 低 | 日平均 | | | 最 大 | 最 小 | 日平均 | 最 大 | 日平均 | | |
| 1 | 2.1 | 3.7 | 1.6 | 2.8 | — | 1.7 | 96.0 | 93.0 | 95.1 | 1.1 | 0.1 | W | |
| 2 | 0.5 | 4.3 | -3.7 | 0.3 | — | 11.9 | 94.0 | 32.0 | 57.6 | 7.6 | 1.5 | E | |
| 3 | -5.4 | 2.6 | -6.8 | -3.5 | — | 10.0 | 65.5 | 26.0 | 49.4 | 2.6 | 0.5 | SSW | |
| 4 | -6.1 | 3.2 | -8.0 | -4.0 | — | 13.0 | 46.0 | 17.5 | 33.3 | 1.5 | 0.4 | S | |
| 5 | -5.1 | 6.8 | -7.6 | -1.7 | — | 12.8 | 70.0 | 27.0 | 49.6 | 2.2 | 0.3 | ENE | |
| 6 | 4.1 | 8.9 | -2.4 | 4.3 | — | 10.6 | 55.0 | 5.5 | 18.0 | 7.9 | 1.2 | SSW | |
| 7 | 0.6 | 3.9 | -1.4 | 0.8 | — | 2.8 | 95.0 | 74.0 | 89.7 | 0.3 | 0.0 | SSW | |
| 8 | -3.5 | 5.0 | -4.5 | -1.1 | — | 13.4 | 90.0 | 36.5 | 57.9 | 3.9 | 0.8 | NE | |
| 9 | -1.8 | 2.1 | -5.5 | -2.6 | — | 11.8 | 65.0 | 30.0 | 48.0 | 5.6 | 1.2 | NE | |
| 10 | -5.3 | 3.2 | -7.1 | -2.8 | — | 13.3 | 49.5 | 14.5 | 33.5 | 5.9 | 1.4 | SSW | |
| 11 | -2.6 | -0.5 | -6.5 | -3.3 | — | 5.9 | 68.0 | 32.0 | 45.0 | 3.2 | 0.9 | NE | |
| 12 | -3.0 | 6.5 | -5.5 | -0.5 | — | 11.1 | 70.5 | 25.5 | 43.2 | 1.8 | 0.3 | SSW | |
| 13 | 2.7 | 13.8 | 0.0 | 4.9 | — | 13.6 | 55.0 | 7.0 | 26.3 | 2.5 | 0.5 | SSE | |
| 14 | 7.8 | 13.1 | 0.9 | 6.6 | — | 12.9 | 77.5 | 30.0 | 44.1 | 3.7 | 0.7 | S | |
| 15 | 6.7 | 12.2 | 4.0 | 6.7 | — | 10.8 | 79.0 | 40.0 | 57.9 | 5.4 | 0.6 | SW | |
| 16 | -1.3 | 4.0 | -6.4 | -1.5 | — | 6.3 | 76.0 | 27.0 | 43.2 | 6.5 | 1.3 | SSW | |
| 17 | -5.9 | -1.2 | -8.5 | -5.5 | — | 12.2 | 48.5 | 19.5 | 33.0 | 2.3 | 0.4 | NNE | |
| 18 | -5.4 | 7.4 | -8.3 | -2.0 | — | 14.4 | 69.0 | 10.5 | 36.8 | 3.6 | 0.5 | SSW | |
| 19 | 5.4 | 12.1 | -2.8 | 4.2 | — | 13.6 | 69.0 | 4.5 | 32.4 | 6.3 | 1.0 | NE | |
| 20 | 5.1 | 13.7 | 1.2 | 6.4 | — | 8.5 | 94.0 | 20.0 | 55.7 | 4.4 | 0.4 | S | |
| 21 | 9.6 | 12.0 | 5.3 | 9.0 | — | 3.4 | 95.5 | 80.0 | 93.1 | 1.8 | 0.1 | S | |
| 22 | 3.8 | 5.5 | 0.4 | 3.7 | — | 3.8 | 96.0 | 73.5 | 91.3 | 1.2 | 0.2 | S | |
| 23 | 0.0 | 4.2 | -2.5 | 0.0 | — | 8.9 | 93.5 | 63.5 | 79.6 | 5.0 | 0.6 | SSW | |
| 24 | -2.6 | 2.0 | -4.2 | -1.9 | — | 10.0 | 94.0 | 30.0 | 68.2 | 3.6 | 0.5 | SSW | |
| 25 | -0.3 | 3.9 | -4.5 | -1.1 | — | 8.7 | 89.5 | 13.5 | 54.3 | 8.1 | 0.9 | SSW | |
| 26 | -1.5 | 0.9 | -6.0 | -2.1 | — | 12.3 | 71.5 | 26.0 | 43.3 | 4.4 | 0.7 | NE | |
| 27 | -3.9 | 3.9 | -7.3 | -2.3 | — | 15.8 | 74.0 | 30.0 | 53.1 | 2.9 | 0.6 | SSW | |
| 28 | -2.8 | 5.3 | -5.3 | -0.8 | — | 14.7 | 80.5 | 39.0 | 62.9 | 2.3 | 0.5 | ESE | |
| 29 | 1.1 | 9.3 | -2.6 | 2.3 | — | 16.6 | 57.0 | 17.5 | 39.1 | 2.2 | 0.3 | S | |
| 30 | 1.7 | 9.2 | -1.6 | 2.7 | — | 11.3 | 60.0 | 23.0 | 46.5 | 2.7 | 0.4 | ENE | |
| 31 | 2.7 | 5.9 | -1.4 | 1.6 | — | 16.4 | 55.0 | 17.5 | 35.7 | 4.9 | 1.0 | NNE | |
| 合計 | | | | | — | 332.6 | | | | | | | |
| 平均 | -0.1 | 6.0 | -3.5 | 0.6 | | 10.7 | 74.2 | 31.8 | 52.2 | 3.8 | 0.6 | | |

観測地点：総合気象 I 2011年 4月 気象月報

井川演習林

| 日 | 気 温 °C | | | | 降水量 mm | 水平面日射量 MJ/m ² | 相 对 湿 度 % | | | 風 速 m/s | | 風 向 | 記 事 |
|----|--------|------|------|------|-----------|-----------------------------|-----------|------|------|---------|-----|-----|-----|
| | 9時気温 | 最 高 | 最 低 | 日平均 | | | 最 大 | 最 小 | 日平均 | 最 大 | 日平均 | | |
| 1 | 0.5 | 11.5 | -3.2 | 3.1 | 0.0 | 16.3 | 80.5 | 29.5 | 50.6 | 1.9 | 0.3 | SSW | |
| 2 | 8.3 | 14.0 | 2.2 | 7.5 | 0.0 | 15.0 | 42.0 | 9.0 | 27.1 | 3.6 | 1.0 | ENE | |
| 3 | 4.4 | 6.0 | -0.7 | 3.3 | 0.0 | 8.0 | 79.0 | 39.5 | 62.3 | 2.1 | 0.3 | SSW | |
| 4 | 0.6 | 7.7 | -1.4 | 1.8 | 0.0 | 14.8 | 77.5 | 45.5 | 64.6 | 1.8 | 0.3 | S | |
| 5 | 1.5 | 12.0 | -2.3 | 3.6 | 0.0 | 16.7 | 68.0 | 15.5 | 47.4 | 3.3 | 0.5 | SSW | |
| 6 | 4.5 | 14.4 | 0.5 | 6.1 | 0.0 | 16.6 | 57.0 | 23.0 | 42.9 | 2.5 | 0.5 | ESE | |
| 7 | 5.9 | 14.8 | 1.7 | 7.0 | 0.0 | 16.0 | 77.5 | 23.0 | 43.5 | 4.1 | 0.5 | SSW | |
| 8 | 8.3 | 11.8 | 4.8 | 7.2 | 1.0 | 11.5 | 93.5 | 40.0 | 72.1 | 5.2 | 1.5 | SSW | |
| 9 | 8.4 | 13.7 | 5.7 | 8.7 | 34.5 | 4.6 | 96.0 | 63.0 | 85.5 | 2.8 | 0.3 | SSW | |
| 10 | 6.1 | 13.0 | 3.7 | 7.0 | 0.0 | 14.6 | 94.5 | 52.5 | 74.3 | 2.2 | 0.4 | SSW | |
| 11 | 5.8 | 13.4 | 2.5 | 6.5 | 0.5 | 15.0 | 93.5 | 19.0 | 60.8 | 4.0 | 0.5 | NE | |
| 12 | 1.6 | 9.7 | 0.2 | 3.5 | 0.5 | 14.9 | 74.0 | 33.5 | 51.6 | 2.2 | 0.5 | E | |
| 13 | 4.0 | 14.4 | 0.4 | 6.6 | 0.0 | 17.1 | 39.5 | 6.0 | 23.9 | 4.9 | 0.9 | NE | |
| 14 | 7.8 | 17.3 | 3.1 | 9.0 | 0.0 | 16.9 | 52.5 | 19.0 | 33.3 | 3.3 | 0.7 | ESE | |
| 15 | 7.5 | 15.9 | 4.5 | 8.4 | 2.5 | 13.4 | 90.5 | 33.5 | 59.3 | 5.1 | 0.6 | S | |
| 16 | 11.2 | 16.3 | 7.4 | 11.0 | 0.5 | 15.6 | 93.5 | 14.5 | 44.9 | 4.6 | 1.1 | NE | |
| 17 | 6.5 | 14.0 | 4.0 | 7.9 | 0.0 | 15.2 | 88.5 | 31.0 | 59.9 | 2.7 | 0.6 | SSW | |
| 18 | 8.6 | 14.8 | 4.1 | 8.1 | 7.0 | 11.6 | 94.0 | 47.5 | 75.0 | 1.9 | 0.4 | SSW | |
| 19 | 6.1 | 7.8 | 0.7 | 4.6 | 11.5 | 12.5 | 94.5 | 54.0 | 76.0 | 4.2 | 0.6 | SSE | |
| 20 | 4.2 | 13.0 | 0.8 | 5.5 | 0.0 | 19.7 | 80.0 | 42.5 | 59.4 | 2.2 | 0.4 | SSW | |
| 21 | 5.3 | 14.1 | 1.7 | 7.1 | 0.0 | 16.6 | 93.0 | 48.0 | 74.8 | 3.1 | 0.4 | SSW | |
| 22 | 7.4 | 11.0 | 3.4 | 6.8 | 0.5 | 7.2 | 92.0 | 49.5 | 77.9 | 0.4 | 0.0 | S | |
| 23 | 8.6 | 9.8 | 6.4 | 8.2 | 97.0 | 2.0 | 96.0 | 61.5 | 91.7 | 2.8 | 0.7 | SSW | |
| 24 | 7.7 | 12.6 | 1.6 | 6.1 | 2.0 | 14.8 | 85.0 | 12.5 | 42.1 | 4.1 | 0.7 | NE | |
| 25 | 5.3 | 6.5 | 2.4 | 4.3 | 1.0 | 9.8 | 82.0 | 32.0 | 52.7 | 2.7 | 0.6 | SSW | |
| 26 | 8.5 | 10.9 | 3.9 | 7.5 | 0.0 | 5.8 | 86.0 | 38.0 | 56.8 | 3.4 | 0.9 | SSW | |
| 27 | 14.4 | 16.5 | 10.3 | 12.6 | 35.0 | 10.1 | 95.0 | 33.0 | 62.5 | 6.9 | 2.5 | SSW | |
| 28 | 10.8 | 14.9 | 4.4 | 9.8 | 25.5 | 18.9 | 92.5 | 23.5 | 50.3 | 3.9 | 0.7 | SSW | |
| 29 | 5.4 | 12.6 | 2.6 | 7.0 | 0.0 | 16.3 | 59.0 | 25.0 | 40.5 | 6.3 | 0.7 | SSW | |
| 30 | 9.9 | 14.6 | 5.7 | 9.4 | 0.0 | 5.4 | 77.0 | 23.0 | 46.1 | 5.0 | 1.1 | S | |
| 合計 | | | | | 219.0 | 392.7 | | | | | | | |
| 平均 | 6.5 | 12.6 | 2.7 | 6.8 | | 13.1 | 80.8 | 32.9 | 57.0 | 3.4 | 0.7 | | |

筑波大学農林技術センター演習林気象報告 (井川演習林)

観測地点：総合気象 I 2011年 5月 気象月報

井川演習林

| 日 | 気 温 °C | | | | 降水量 mm | 水平面日射量 MJ/m ² | 相 対 湿 度 % | | | 風 速 m/s | | 風 向 | 記 事 |
|----------|--------|------|------|------|-----------|-----------------------------|-----------|------|------|---------|-----|-----|-----|
| | 9時気温 | 最 高 | 最 低 | 日平均 | | | 最 大 | 最 小 | 日平均 | 最 大 | 日平均 | | |
| 1 | 7.9 | 12.5 | 7.8 | 9.1 | 31.0 | 1.7 | 95.0 | 42.5 | 81.6 | 5.5 | 0.7 | S | |
| 2 | 15.6 | 19.6 | 8.4 | 13.1 | 0.0 | 15.9 | 74.0 | 5.0 | 39.5 | 3.8 | 1.3 | SSW | |
| 3 | 11.1 | 12.8 | 6.3 | 9.0 | 0.0 | 6.4 | 76.0 | 37.5 | 62.4 | 1.4 | 0.1 | E | |
| 4 | 9.0 | 15.0 | 4.9 | 9.3 | 0.0 | 16.4 | 84.0 | 41.0 | 66.9 | 2.2 | 0.4 | SSW | |
| 5 | 10.4 | 14.9 | 6.5 | 9.5 | 0.0 | 12.7 | 85.0 | 47.0 | 68.7 | 2.4 | 0.6 | SSW | |
| 6 | 8.7 | 14.8 | 4.4 | 8.9 | 0.0 | 10.2 | 83.5 | 55.5 | 74.2 | 2.3 | 0.4 | SSW | |
| 7 | 8.4 | 15.3 | 6.9 | 10.5 | 0.0 | 6.5 | 92.5 | 66.0 | 81.9 | 0.7 | 0.1 | S | |
| 8 | 15.6 | 19.7 | 10.8 | 15.2 | 0.0 | 18.7 | 75.5 | 12.0 | 31.8 | 8.8 | 1.6 | S | |
| 9 | 12.8 | 20.4 | 10.8 | 14.6 | 0.0 | 11.5 | 62.5 | 7.5 | 34.6 | 4.4 | 0.9 | SSW | |
| 10 | 19.5 | 19.5 | 15.6 | 17.6 | 36.5 | 3.5 | 95.5 | 55.0 | 75.8 | 6.2 | 1.7 | SSW | |
| 11 | 13.4 | 15.5 | 11.0 | 12.9 | 161.5 | 0.8 | 96.5 | 95.5 | 96.1 | 1.8 | 0.1 | SSW | |
| 12 | 14.1 | 14.8 | 12.2 | 13.9 | 11.0 | 4.1 | 97.0 | 96.0 | 96.6 | 0.2 | 0.0 | SSW | |
| 13 | 18.4 | 21.1 | 8.9 | 16.0 | 1.0 | 17.3 | 96.5 | 9.5 | 36.2 | 5.0 | 0.9 | SSW | |
| 14 | 11.2 | 16.5 | 7.0 | 11.3 | 0.0 | 15.9 | 42.5 | 16.0 | 27.7 | 5.5 | 1.3 | S | |
| 15 | 10.4 | 18.1 | 5.7 | 11.0 | 0.0 | 16.3 | 53.5 | 16.0 | 34.5 | 4.0 | 1.0 | S | |
| 16 | 11.2 | 16.3 | 6.7 | 10.9 | 0.0 | 12.1 | 86.5 | 41.0 | 58.3 | 1.0 | 0.2 | SSW | |
| 17 | 11.5 | 14.6 | 7.4 | 10.6 | 0.0 | 12.2 | 88.5 | 53.0 | 69.2 | 3.7 | 0.3 | S | |
| 18 | 11.1 | 18.1 | 5.6 | 11.3 | 0.0 | 19.1 | 74.5 | 18.5 | 51.7 | 3.2 | 0.6 | NE | |
| 19 | 12.2 | 21.6 | 7.2 | 13.4 | 0.0 | 18.9 | 69.0 | 25.5 | 43.7 | 1.9 | 0.3 | S | |
| 20 | 14.3 | 23.3 | 9.4 | 15.2 | 0.0 | 17.0 | 83.5 | 26.0 | 47.3 | 2.2 | 0.3 | SW | |
| 21 | 16.0 | 24.9 | 10.7 | 17.0 | 0.0 | 17.4 | 86.5 | 25.5 | 52.2 | 2.0 | 0.4 | SSW | |
| 22 | 16.1 | 16.3 | 13.7 | 15.0 | 5.5 | 4.6 | 96.0 | 84.0 | 90.2 | 1.2 | 0.1 | SSW | |
| 23 | 12.4 | 13.4 | 7.1 | 11.2 | 21.0 | 5.0 | 95.0 | 88.0 | 91.6 | 4.1 | 0.8 | NE | |
| 24 | 6.4 | 15.1 | 5.6 | 9.2 | 30.0 | 16.4 | 91.0 | 55.5 | 79.4 | 5.1 | 1.2 | NE | |
| 25 | 11.7 | 18.7 | 6.8 | 12.5 | 0.0 | 16.1 | 85.5 | 45.5 | 64.5 | 2.0 | 0.2 | SSW | |
| 26 | 13.6 | 15.8 | 8.7 | 11.9 | 2.5 | 8.8 | 91.0 | 56.5 | 72.1 | 2.1 | 0.2 | SSW | |
| 27 | 9.2 | 12.2 | 8.3 | 10.3 | 6.0 | 6.2 | 95.0 | 91.5 | 93.9 | 2.2 | 0.1 | WSW | |
| 28 | 13.9 | 15.4 | 11.2 | 13.8 | 27.0 | 5.1 | 96.0 | 95.0 | 95.6 | 0.1 | 0.0 | SSW | |
| 29 | 15.1 | 16.6 | 13.9 | 15.2 | 144.0 | 2.4 | 97.0 | 94.5 | 96.4 | 4.5 | 0.8 | S | |
| 30 | 13.9 | 20.1 | 11.4 | 14.7 | 18.5 | 15.5 | 97.0 | 57.0 | 84.0 | 2.2 | 0.3 | S | |
| 31 | 12.0 | 12.8 | 9.0 | 10.7 | 0.0 | 5.2 | 96.5 | 75.0 | 88.2 | 2.4 | 0.4 | SSW | |
| 合計 平均 | 12.5 | 17.0 | 8.7 | 12.4 | 495.5 | 340.1 | 11.0 | 85.1 | 49.5 | 67.3 | 3.0 | 0.6 | |

観測地点：総合気象 I 2011年 6月 気象月報

井川演習林

| 日 | 気 温 °C | | | | 降水量 mm | 水平面日射量 MJ/m ² | 相 対 湿 度 % | | | 風 速 m/s | | 風 向 | 記 事 |
|----------|--------|------|------|------|-----------|-----------------------------|-----------|------|------|---------|-----|-----|-----|
| | 9時気温 | 最 高 | 最 低 | 日平均 | | | 最 大 | 最 小 | 日平均 | 最 大 | 日平均 | | |
| 1 | 9.2 | 10.0 | 8.3 | 9.0 | 10.5 | 2.3 | 97.0 | 96.0 | 96.6 | 0.1 | 0.0 | SSW | |
| 2 | 9.9 | 11.1 | 8.2 | 9.8 | 15.5 | 2.5 | 97.0 | 96.5 | 96.7 | 0.1 | 0.0 | SSW | |
| 3 | 12.5 | 17.9 | 8.6 | 12.9 | 0.0 | 12.4 | 96.5 | 64.0 | 85.6 | 1.1 | 0.1 | SW | |
| 4 | 12.2 | 22.1 | 7.4 | 14.3 | 0.0 | 18.3 | 86.5 | 36.0 | 60.0 | 3.0 | 0.7 | ESE | |
| 5 | 15.9 | 18.8 | 11.0 | 14.3 | 0.0 | 7.1 | 91.0 | 62.0 | 75.7 | 1.5 | 0.2 | SSW | |
| 6 | 14.3 | 19.8 | 9.9 | 14.5 | 0.0 | 14.4 | 84.5 | 50.0 | 69.3 | 1.9 | 0.4 | SSW | |
| 7 | 13.7 | 15.7 | 11.5 | 13.2 | 0.0 | 6.9 | 87.5 | 66.5 | 80.2 | 0.7 | 0.1 | S | |
| 8 | 14.0 | 20.0 | 11.5 | 14.6 | 0.0 | 12.9 | 92.0 | 57.0 | 79.5 | 1.5 | 0.2 | SSW | |
| 9 | 15.9 | 21.6 | 13.1 | 16.0 | 0.0 | 17.9 | 96.0 | 59.0 | 82.1 | 1.2 | 0.2 | SSW | |
| 10 | 15.8 | 19.3 | 12.1 | 15.7 | 1.5 | 10.1 | 92.0 | 70.5 | 79.6 | 1.2 | 0.2 | SSW | |
| 11 | 16.4 | 20.0 | 14.0 | 16.7 | 63.5 | 5.6 | 96.0 | 87.0 | 93.9 | 0.5 | 0.0 | NE | |
| 12 | 16.5 | 20.0 | 13.1 | 16.0 | 9.5 | 10.2 | 95.0 | 75.0 | 86.6 | 0.9 | 0.2 | NE | |
| 13 | 17.2 | 20.4 | 12.7 | 16.4 | 37.5 | 13.3 | 96.5 | 73.0 | 87.0 | 1.5 | 0.4 | S | |
| 14 | 16.1 | 20.3 | 12.2 | 15.7 | 0.0 | 11.5 | 88.0 | 61.5 | 78.0 | 2.0 | 0.4 | S | |
| 15 | 15.0 | 16.3 | 12.4 | 13.8 | 0.0 | 9.8 | 90.0 | 70.5 | 82.9 | 1.6 | 0.3 | SSW | |
| 16 | 14.1 | 15.3 | 11.2 | 13.0 | 7.0 | 6.0 | 95.0 | 78.0 | 88.5 | 0.6 | 0.1 | SSW | |
| 17 | 15.6 | 17.8 | 12.5 | 14.5 | 6.0 | 6.9 | 96.5 | 86.0 | 94.9 | 0.2 | 0.0 | SSW | |
| 18 | 15.5 | 15.5 | 14.0 | 14.6 | 13.0 | 4.0 | 97.0 | 95.0 | 96.5 | 0.8 | 0.1 | SSW | |
| 19 | 15.9 | 17.2 | 13.7 | 15.5 | 0.0 | 6.7 | 97.0 | 89.5 | 94.5 | 0.6 | 0.1 | SSW | |
| 20 | 17.0 | 17.7 | 14.4 | 16.2 | 0.0 | 5.1 | 97.0 | 91.0 | 95.5 | 1.2 | 0.1 | SSW | |
| 21 | 17.2 | 20.8 | 15.2 | 18.0 | 7.0 | 7.4 | 96.0 | 57.0 | 76.8 | 5.1 | 0.7 | S | |
| 22 | 20.6 | 25.7 | 14.8 | 20.5 | 0.0 | 13.2 | 71.0 | 36.0 | 57.4 | 5.3 | 0.7 | NE | |
| 23 | 22.3 | 24.0 | 18.6 | 22.2 | 0.5 | 4.4 | 82.5 | 54.5 | 61.0 | 6.3 | 2.1 | S | |
| 24 | 22.8 | 24.4 | 22.2 | 23.2 | 0.0 | 10.1 | 61.0 | 47.0 | 54.3 | 8.0 | 3.3 | SSW | |
| 25 | 24.0 | 27.2 | 18.7 | 22.3 | 2.0 | 7.3 | 84.5 | 46.0 | 65.9 | 4.2 | 0.9 | SSW | |
| 26 | 19.9 | 24.4 | 16.5 | 20.0 | 0.0 | 11.9 | 90.5 | 56.5 | 77.9 | 2.8 | 0.3 | S | |
| 27 | 18.7 | 21.0 | 16.4 | 18.7 | 16.5 | 6.7 | 95.5 | 86.0 | 92.9 | 2.0 | 0.2 | SSW | |
| 28 | 22.8 | 27.3 | 18.4 | 22.3 | 0.0 | 15.6 | 95.5 | 48.0 | 67.8 | 1.9 | 0.3 | SW | |
| 29 | 23.4 | 29.2 | 19.8 | 23.5 | 0.0 | 16.7 | 83.0 | 52.0 | 67.1 | 6.9 | 0.8 | SSW | |
| 30 | 21.4 | 26.8 | 18.2 | 21.3 | 6.5 | 14.0 | 85.0 | 62.0 | 73.0 | 2.0 | 0.4 | ENE | |
| 合計 平均 | 16.9 | 20.3 | 13.7 | 16.6 | 196.5 | 291.1 | 9.7 | 90.4 | 67.0 | 79.9 | 2.2 | 0.4 | |

観測地点：総合気象 I 2011年 7月 気象月報

井川演習林

| 日 | 気 温 °C | | | | 降水量 mm | 水平面日射量 MJ/m ² | 相 对 湿 度 % | | | 風 速 m/s | | 風 向 | 記 事 |
|----------|--------|------|------|------|-----------|-----------------------------|-----------|------|------|---------|-----|-----|-----|
| | 9時気温 | 最 高 | 最 低 | 日平均 | | | 最 大 | 最 小 | 日平均 | 最 大 | 日平均 | | |
| 1 | 22.7 | 25.1 | 17.3 | 20.9 | 2.0 | 10.3 | 92.0 | 60.0 | 75.1 | 2.5 | 0.5 | ENE | |
| 2 | 19.2 | 24.9 | 16.4 | 20.0 | 2.5 | 9.9 | 93.0 | 68.5 | 85.5 | 1.1 | 0.1 | SSW | |
| 3 | 20.1 | 24.5 | 17.3 | 20.4 | 0.0 | 14.3 | 94.0 | 71.5 | 85.7 | 1.3 | 0.3 | SSW | |
| 4 | 23.3 | 25.8 | 17.6 | 21.9 | 13.5 | 8.9 | 95.0 | 50.0 | 70.1 | 5.8 | 2.2 | SSW | |
| 5 | 20.0 | 27.1 | 16.9 | 20.7 | 15.0 | 20.1 | 94.0 | 32.5 | 68.6 | 2.5 | 0.5 | NE | |
| 6 | 19.5 | 25.5 | 15.0 | 18.9 | 3.5 | 15.6 | 93.0 | 58.0 | 78.8 | 3.3 | 0.5 | SSW | |
| 7 | 17.8 | 19.0 | 16.0 | 17.7 | 8.0 | 3.0 | 96.0 | 89.0 | 94.3 | 3.1 | 0.2 | SSW | |
| 8 | 19.5 | 28.1 | 17.7 | 21.4 | 8.5 | 14.9 | 95.5 | 51.5 | 82.6 | 2.4 | 0.4 | SSW | |
| 9 | 22.0 | 27.5 | 18.5 | 21.9 | 0.0 | 13.4 | 88.5 | 63.5 | 79.9 | 1.7 | 0.4 | SSW | |
| 10 | 20.5 | 27.8 | 17.3 | 20.9 | 3.5 | 14.9 | 92.0 | 60.5 | 80.9 | 5.0 | 0.4 | ENE | |
| 11 | 19.9 | 27.5 | 16.4 | 20.8 | 0.0 | 17.0 | 92.5 | 56.5 | 79.8 | 2.2 | 0.4 | SSW | |
| 12 | 19.8 | 27.7 | 16.5 | 20.9 | 0.0 | 14.9 | 90.0 | 58.0 | 78.9 | 2.6 | 0.4 | SSW | |
| 13 | 20.1 | 26.6 | 18.0 | 21.2 | 0.0 | 18.4 | 89.0 | 59.5 | 80.2 | 1.8 | 0.3 | SSW | |
| 14 | 20.0 | 27.5 | 17.1 | 21.3 | 0.0 | 17.0 | 86.0 | 61.5 | 77.0 | 1.5 | 0.3 | E | |
| 15 | 20.9 | 28.6 | 17.2 | 22.2 | 0.0 | 18.2 | 85.5 | 57.5 | 72.7 | 1.9 | 0.3 | ENE | |
| 16 | 21.0 | 28.5 | 17.3 | 22.2 | 0.0 | 15.4 | 86.5 | 48.5 | 72.7 | 2.9 | 0.4 | SSW | |
| 17 | 19.9 | 29.6 | 16.3 | 21.9 | 0.0 | 17.9 | 81.0 | 43.5 | 64.6 | 3.1 | 0.5 | ENE | |
| 18 | 22.7 | 24.9 | 18.1 | 20.7 | 10.5 | 8.5 | 92.0 | 59.0 | 77.7 | 1.1 | 0.1 | NE | |
| 19 | 17.5 | 19.2 | 17.2 | 18.5 | 327.5 | 2.2 | 95.5 | 92.0 | 94.1 | 3.7 | 0.8 | SSW | |
| 20 | 19.7 | 21.3 | 18.0 | 19.8 | 118.0 | 4.3 | 96.0 | 77.5 | 91.9 | 5.6 | 1.6 | NNE | |
| 21 | 19.6 | 25.8 | 16.7 | 20.5 | 0.0 | 13.3 | 90.0 | 56.5 | 73.6 | 5.0 | 1.1 | NE | |
| 22 | 17.9 | 24.2 | 16.4 | 18.8 | 0.0 | 19.5 | 92.5 | 65.5 | 82.4 | 1.5 | 0.2 | SSW | |
| 23 | 18.7 | 25.6 | 15.7 | 19.8 | 0.0 | 17.5 | 90.0 | 58.5 | 79.9 | 1.6 | 0.2 | SSW | |
| 24 | 19.9 | 22.8 | 16.7 | 18.9 | 0.0 | 12.5 | 92.5 | 71.0 | 84.4 | 1.5 | 0.3 | SSW | |
| 25 | 18.0 | 23.3 | 14.8 | 18.2 | 0.0 | 9.2 | 90.5 | 67.0 | 81.3 | 0.7 | 0.2 | ENE | |
| 26 | 18.3 | 22.1 | 15.3 | 18.2 | 0.0 | 10.1 | 87.0 | 73.5 | 81.2 | 1.2 | 0.2 | SSW | |
| 27 | 18.0 | 21.3 | 16.6 | 18.3 | 12.0 | 7.5 | 93.5 | 84.0 | 88.8 | 1.0 | 0.0 | SSW | |
| 28 | 18.3 | 20.7 | 17.3 | 18.5 | 4.0 | 3.5 | 95.0 | 88.0 | 92.0 | 0.9 | 0.1 | NE | |
| 29 | 19.6 | 22.8 | 16.6 | 19.5 | 1.0 | 9.0 | 91.5 | 73.5 | 86.6 | 0.8 | 0.0 | SE | |
| 30 | 19.8 | 21.6 | 16.6 | 18.2 | 22.0 | 5.2 | 94.0 | 80.0 | 89.4 | 2.6 | 0.3 | NE | |
| 31 | 18.7 | 19.6 | 16.6 | 17.7 | 36.5 | 4.6 | 95.5 | 90.5 | 94.1 | 0.4 | 0.0 | ESE | |
| 合計 平均 | 19.8 | 24.7 | 16.8 | 20.0 | 588.0 | 370.9 | 91.6 | 65.4 | 81.4 | 2.3 | 0.4 | | |

観測地点：総合気象 I 2011年 8月 気象月報

井川演習林

| 日 | 気 温 °C | | | | 降水量 mm | 水平面日射量 MJ/m ² | 相 对 湿 度 % | | | 風 速 m/s | | 風 向 | 記 事 |
|----------|--------|------|------|------|-----------|-----------------------------|-----------|------|------|---------|-----|-----|-----|
| | 9時気温 | 最 高 | 最 低 | 日平均 | | | 最 大 | 最 小 | 日平均 | 最 大 | 日平均 | | |
| 1 | 18.3 | 20.7 | 16.3 | 18.0 | 0.5 | 6.1 | 95.5 | 81.0 | 91.0 | 1.9 | 0.2 | S | |
| 2 | 19.2 | 20.3 | 16.3 | 18.2 | 0.5 | 6.7 | 95.0 | 81.5 | 90.1 | 0.7 | 0.1 | SSW | |
| 3 | 18.0 | 21.3 | 16.0 | 18.4 | 8.5 | 4.8 | 95.0 | 83.0 | 92.2 | 0.0 | 0.0 | E | |
| 4 | 18.2 | 24.8 | 15.6 | 19.9 | 1.0 | 13.2 | 94.5 | 62.0 | 80.8 | 2.0 | 0.6 | NNE | |
| 5 | 20.1 | 24.4 | 18.0 | 20.4 | 0.5 | 10.7 | 92.0 | 71.0 | 85.7 | 1.4 | 0.2 | SSW | |
| 6 | 20.5 | 24.5 | 18.1 | 20.8 | 23.5 | 9.8 | 93.0 | 76.5 | 89.3 | 0.9 | 0.0 | S | |
| 7 | 20.1 | 25.8 | 17.6 | 20.0 | 28.0 | 7.0 | 95.0 | 74.5 | 90.1 | 1.8 | 0.2 | S | |
| 8 | 20.0 | 27.0 | 17.7 | 20.8 | 3.0 | 11.5 | 94.5 | 71.5 | 88.4 | 2.4 | 0.5 | S | |
| 9 | 19.9 | 28.1 | 17.3 | 21.4 | 0.0 | 12.7 | 93.0 | 66.5 | 85.7 | 1.3 | 0.2 | E | |
| 10 | 20.4 | 28.0 | 18.4 | 22.3 | 0.0 | 13.4 | 91.0 | 67.0 | 81.7 | 1.0 | 0.2 | SSW | |
| 11 | 22.4 | 29.9 | 19.0 | 23.0 | 0.0 | 13.4 | 80.0 | 44.5 | 67.1 | 3.0 | 0.6 | NE | |
| 12 | 19.6 | 29.1 | 16.7 | 21.9 | 0.0 | 13.8 | 84.5 | 52.5 | 66.8 | 1.9 | 0.3 | E | |
| 13 | 21.0 | 27.1 | 18.0 | 21.3 | 0.0 | 11.2 | 86.5 | 66.5 | 80.9 | 1.8 | 0.3 | SSW | |
| 14 | 20.6 | 27.9 | 18.2 | 21.9 | 0.0 | 13.2 | 89.5 | 66.0 | 81.1 | 1.5 | 0.3 | S | |
| 15 | 19.6 | 26.3 | 16.6 | 20.9 | 0.0 | 9.3 | 86.5 | 65.5 | 77.9 | 1.9 | 0.3 | ENE | |
| 16 | 20.2 | 27.9 | 17.8 | 22.0 | 0.0 | 11.3 | 82.0 | 49.0 | 68.3 | 2.4 | 0.5 | SW | |
| 17 | 21.8 | 28.4 | 18.9 | 22.6 | 0.0 | 12.4 | 76.5 | 49.0 | 65.7 | 2.7 | 0.4 | NNE | |
| 18 | 22.5 | 29.4 | 20.1 | 23.3 | 0.0 | 12.9 | 88.5 | 42.0 | 69.4 | 1.5 | 0.3 | NE | |
| 19 | 20.3 | 22.4 | 18.0 | 20.2 | 2.0 | 4.7 | 94.0 | 87.5 | 90.9 | 0.7 | 0.1 | SSW | |
| 20 | 17.0 | 17.8 | 16.1 | 16.9 | 9.5 | 1.4 | 96.0 | 94.0 | 95.3 | 0.5 | 0.0 | SSW | |
| 21 | 17.3 | 18.6 | 16.2 | 17.4 | 18.0 | 1.9 | 96.0 | 95.0 | 95.6 | 0.6 | 0.0 | SSW | |
| 22 | 18.0 | 20.9 | 16.8 | 18.2 | 47.0 | 7.1 | 96.0 | 87.0 | 94.5 | 1.3 | 0.2 | SSW | |
| 23 | 18.3 | 23.4 | 17.2 | 19.3 | 0.5 | 6.3 | 96.0 | 76.5 | 89.5 | 1.6 | 0.2 | SSW | |
| 24 | 18.6 | 24.5 | 14.8 | 19.4 | 19.0 | 12.7 | 93.5 | 72.0 | 85.0 | 2.6 | 0.4 | SSW | |
| 25 | 18.0 | 20.7 | 17.3 | 18.7 | 83.5 | 4.0 | 95.5 | 91.5 | 93.7 | 2.0 | 0.1 | ENE | |
| 26 | 18.7 | 23.7 | 16.9 | 19.7 | 0.5 | 9.9 | 95.0 | 79.0 | 90.7 | 1.7 | 0.2 | SSW | |
| 27 | 19.6 | 21.0 | 17.5 | 18.9 | 8.0 | 5.2 | 95.5 | 88.0 | 93.8 | 1.4 | 0.1 | SSW | |
| 28 | 18.2 | 21.9 | 17.0 | 18.8 | 1.0 | 4.5 | 95.5 | 84.5 | 92.8 | 1.4 | 0.1 | S | |
| 29 | 18.1 | 22.5 | 16.3 | 19.0 | 0.0 | 7.1 | 95.5 | 80.5 | 89.0 | 0.4 | 0.0 | ENE | |
| 30 | 18.5 | 28.0 | 16.1 | 20.5 | 0.0 | 14.3 | 90.5 | 45.5 | 72.6 | 1.8 | 0.4 | E | |
| 31 | 19.5 | 20.6 | 17.9 | 18.9 | 42.5 | 4.1 | 94.5 | 80.5 | 90.2 | 0.7 | 0.1 | NNE | |
| 合計 平均 | 19.4 | 24.4 | 17.2 | 20.1 | 297.0 | 276.6 | 91.8 | 72.0 | 84.7 | 1.5 | 0.2 | | |

筑波大学農林技術センター演習林気象報告（井川演習林）

観測地点：総合気象 I 2011年 9月 気象月報

井川演習林

| 日 | 気 温 ℃ | | | | 降水量 mm | 水平面日射量 MJ/m ² | 相 対 湿 度 % | | | 風 速 m/s | | 風 向 | 記 事 |
|----------|-------|------|------|------|-----------|-----------------------------|-----------|------|------|---------|-----|-----|-----|
| | 9時気温 | 最 高 | 最 低 | 日平均 | | | 最 大 | 最 小 | 日平均 | 最 大 | 日平均 | | |
| 1 | 19.9 | 20.2 | 18.2 | 19.0 | 92.0 | 3.5 | 95.5 | 82.0 | 93.1 | 3.0 | 0.2 | NE | |
| 2 | 18.9 | 19.9 | 18.0 | 19.0 | 151.5 | 2.4 | 95.5 | 86.5 | 94.3 | 4.7 | 1.2 | S | |
| 3 | 19.0 | 19.6 | 18.3 | 19.0 | 214.0 | 2.3 | 96.5 | 95.5 | 95.9 | 9.0 | 2.6 | SSW | |
| 4 | 17.0 | 18.6 | 16.4 | 17.2 | 136.0 | 1.6 | 96.5 | 96.0 | 96.3 | 6.3 | 0.8 | S | |
| 5 | 17.3 | 19.8 | 16.4 | 18.0 | 7.0 | 4.5 | 97.0 | 94.5 | 96.1 | 1.0 | 0.1 | NE | |
| 6 | 15.5 | 22.1 | 12.7 | 16.6 | 0.0 | 13.5 | 95.0 | 72.0 | 87.8 | 2.0 | 0.4 | E | |
| 7 | 12.0 | 24.3 | 8.0 | 14.6 | 0.0 | 15.4 | 91.0 | 49.5 | 67.4 | 1.9 | 0.3 | E | |
| 8 | 14.4 | 25.5 | 11.2 | 16.7 | 0.0 | 15.4 | 84.5 | 35.5 | 54.0 | 1.6 | 0.2 | E | |
| 9 | 19.1 | 27.6 | 16.1 | 20.7 | 0.0 | 14.0 | 88.5 | 51.0 | 78.7 | 2.7 | 0.3 | SSW | |
| 10 | 19.1 | 28.4 | 16.5 | 20.8 | 0.0 | 14.3 | 89.0 | 60.5 | 80.5 | 3.0 | 0.3 | ESE | |
| 11 | 19.5 | 24.9 | 16.6 | 19.5 | 0.0 | 8.3 | 91.0 | 65.5 | 82.9 | 1.4 | 0.1 | SSW | |
| 12 | 16.4 | 27.6 | 14.2 | 19.6 | 0.0 | 16.1 | 89.0 | 56.0 | 76.8 | 1.8 | 0.2 | SSW | |
| 13 | 17.5 | 26.6 | 16.0 | 20.1 | 0.0 | 13.1 | 88.5 | 60.0 | 80.9 | 1.4 | 0.3 | SSW | |
| 14 | 17.3 | 27.7 | 15.1 | 20.2 | 0.0 | 13.5 | 89.0 | 54.0 | 78.4 | 2.1 | 0.3 | SSW | |
| 15 | 17.1 | 27.2 | 15.0 | 20.0 | 0.0 | 14.9 | 88.5 | 52.0 | 76.3 | 2.4 | 0.4 | SSW | |
| 16 | 17.5 | 25.3 | 14.7 | 19.1 | 7.0 | 10.1 | 92.0 | 58.5 | 80.3 | 0.7 | 0.2 | S | |
| 17 | 19.5 | 20.5 | 18.1 | 19.1 | 61.5 | 4.0 | 94.5 | 91.0 | 93.0 | 0.8 | 0.0 | SSW | |
| 18 | 16.7 | 26.5 | 16.3 | 19.7 | 0.0 | 14.5 | 94.5 | 59.5 | 84.1 | 1.3 | 0.2 | SSW | |
| 19 | 16.8 | 27.2 | 14.7 | 19.2 | 15.0 | 12.5 | 92.0 | 60.0 | 79.5 | 2.2 | 0.2 | SSW | |
| 20 | 18.4 | 19.0 | 17.6 | 18.3 | 55.0 | 2.6 | 94.5 | 89.0 | 93.1 | 1.7 | 0.2 | S | |
| 21 | 18.8 | 18.9 | 15.6 | 17.7 | 300.5 | 0.6 | 96.0 | 79.0 | 92.7 | 4.2 | 1.2 | SSW | |
| 22 | 16.1 | 21.3 | 13.1 | 16.3 | 0.0 | 10.0 | 93.5 | 57.0 | 78.8 | 2.1 | 0.3 | NNE | |
| 23 | 11.3 | 18.4 | 9.5 | 13.1 | 18.0 | 9.8 | 94.5 | 69.0 | 86.8 | 1.4 | 0.2 | SSW | |
| 24 | 9.5 | 18.5 | 7.1 | 11.8 | 0.0 | 11.5 | 92.5 | 61.5 | 83.7 | 1.4 | 0.2 | SSW | |
| 25 | 10.8 | 16.3 | 8.1 | 11.8 | 0.0 | 7.7 | 91.5 | 72.5 | 83.8 | 1.1 | 0.1 | S | |
| 26 | 12.8 | 13.3 | 10.7 | 12.1 | 2.5 | 2.2 | 93.0 | 86.5 | 90.2 | 1.4 | 0.1 | S | |
| 27 | 13.3 | 21.0 | 10.3 | 13.6 | 0.5 | 12.5 | 92.0 | 47.0 | 77.1 | 2.3 | 0.2 | ENE | |
| 28 | 11.2 | 21.4 | 9.2 | 13.3 | 0.0 | 12.9 | 84.0 | 44.0 | 72.8 | 2.0 | 0.2 | SSW | |
| 29 | 10.3 | 21.4 | 7.7 | 13.4 | 0.0 | 11.8 | 89.0 | 56.0 | 75.9 | 1.5 | 0.1 | SSW | |
| 30 | 14.2 | 19.7 | 11.7 | 15.6 | 0.5 | 2.1 | 93.0 | 45.5 | 77.2 | 5.3 | 0.9 | ESE | |
| 合計 平均 | 15.9 | 22.3 | 13.8 | 17.2 | 1061.0 | 277.4 | 9.2 | 92.1 | 66.2 | 82.9 | 2.5 | 0.4 | |

観測地点：総合気象 I 2011年 10月 気象月報

井川演習林

| 日 | 気 温 ℃ | | | | 降水量 mm | 水平面日射量 MJ/m ² | 相 対 湿 度 % | | | 風 速 m/s | | 風 向 | 記 事 |
|----------|-------|------|------|------|-----------|-----------------------------|-----------|------|------|---------|-----|-----|-----|
| | 9時気温 | 最 高 | 最 低 | 日平均 | | | 最 大 | 最 小 | 日平均 | 最 大 | 日平均 | | |
| 1 | 15.0 | 21.4 | 11.9 | 15.0 | 0.0 | 13.2 | 89.0 | 47.5 | 70.1 | 1.8 | 0.6 | SSW | |
| 2 | 13.2 | 19.3 | 9.8 | 12.8 | 0.0 | 9.8 | 91.5 | 35.0 | 69.1 | 5.9 | 0.6 | S | |
| 3 | 10.8 | 16.9 | 7.7 | 11.1 | 0.0 | 9.9 | 88.5 | 35.5 | 75.0 | 2.6 | 0.4 | SSW | |
| 4 | 7.2 | 18.1 | 4.9 | 10.1 | 0.0 | 11.6 | 87.0 | 48.5 | 75.1 | 2.1 | 0.4 | SSW | |
| 5 | 10.8 | 12.7 | 9.3 | 11.5 | 52.5 | 2.1 | 94.5 | 88.0 | 92.9 | 0.4 | 0.0 | NNE | |
| 6 | 15.5 | 22.5 | 9.9 | 15.2 | 1.5 | 11.9 | 95.5 | 65.5 | 85.4 | 2.0 | 0.2 | SSW | |
| 7 | 9.7 | 20.3 | 7.4 | 12.0 | 0.0 | 10.6 | 84.0 | 35.5 | 64.3 | 2.5 | 0.3 | NE | |
| 8 | 10.3 | 15.7 | 6.6 | 10.5 | 0.0 | 9.9 | 91.0 | 60.0 | 80.8 | 2.0 | 0.4 | SSW | |
| 9 | 8.8 | 19.2 | 6.1 | 11.0 | 0.0 | 9.8 | 88.5 | 51.5 | 77.4 | 1.9 | 0.2 | NE | |
| 10 | 9.4 | 20.9 | 6.8 | 12.1 | 0.0 | 10.2 | 88.0 | 25.0 | 62.4 | 1.5 | 0.3 | ESE | |
| 11 | 11.7 | 18.7 | 8.0 | 11.6 | 0.0 | 7.2 | 79.0 | 54.0 | 69.1 | 1.2 | 0.1 | E | |
| 12 | 10.8 | 19.9 | 8.0 | 12.6 | 0.0 | 10.4 | 84.5 | 52.5 | 66.3 | 2.5 | 0.5 | NNE | |
| 13 | 10.4 | 13.9 | 7.8 | 10.3 | 0.0 | 4.8 | 85.0 | 71.0 | 79.9 | 1.1 | 0.2 | ENE | |
| 14 | 11.9 | 14.3 | 8.2 | 11.2 | 4.0 | 2.8 | 92.0 | 74.5 | 83.4 | 2.0 | 0.1 | ENE | |
| 15 | 16.6 | 17.5 | 10.9 | 15.1 | 87.5 | 3.6 | 95.0 | 84.5 | 93.1 | 1.3 | 0.1 | S | |
| 16 | 13.7 | 22.6 | 10.7 | 15.5 | 23.5 | 10.5 | 95.0 | 23.0 | 55.0 | 2.7 | 0.7 | S | |
| 17 | 12.6 | 19.7 | 10.2 | 13.0 | 0.0 | 7.6 | 66.0 | 34.5 | 50.8 | 1.6 | 0.3 | SSW | |
| 18 | 10.9 | 18.0 | 8.0 | 11.9 | 0.0 | 10.1 | 85.0 | 55.0 | 71.3 | 2.2 | 0.5 | E | |
| 19 | 8.9 | 16.1 | 6.5 | 10.3 | 0.0 | 6.0 | 85.0 | 59.5 | 73.5 | 0.4 | 0.0 | E | |
| 20 | 10.7 | 17.9 | 8.1 | 11.9 | 0.0 | 6.3 | 85.0 | 62.5 | 74.7 | 0.8 | 0.0 | SSW | |
| 21 | 13.1 | 15.7 | 10.0 | 12.9 | 14.5 | 3.8 | 93.5 | 72.0 | 85.0 | 0.7 | 0.0 | NE | |
| 22 | 15.4 | 16.5 | 13.6 | 14.9 | 70.5 | 2.2 | 95.0 | 92.0 | 94.3 | 1.4 | 0.1 | SSW | |
| 23 | 14.2 | 18.7 | 11.2 | 14.3 | 3.5 | 5.6 | 95.5 | 77.0 | 89.2 | 1.5 | 0.1 | SSW | |
| 24 | 12.2 | 18.8 | 10.4 | 13.4 | 0.0 | 4.1 | 93.5 | 71.5 | 85.7 | 1.9 | 0.2 | SSW | |
| 25 | 12.6 | 19.4 | 10.1 | 13.3 | 0.0 | 7.7 | 77.5 | 41.0 | 59.8 | 3.4 | 0.6 | NE | |
| 26 | 8.3 | 16.4 | 5.8 | 9.7 | 0.0 | 9.4 | 85.0 | 54.0 | 73.7 | 1.8 | 0.4 | SSW | |
| 27 | 5.9 | 17.1 | 3.1 | 8.3 | 0.0 | 8.0 | 85.5 | 48.0 | 68.5 | 1.1 | 0.2 | ENE | |
| 28 | 5.8 | 17.2 | 3.1 | 8.0 | 0.0 | 9.1 | 81.0 | 44.5 | 67.9 | 1.4 | 0.2 | SE | |
| 29 | 7.8 | 19.7 | 4.9 | 10.1 | 0.0 | 8.6 | 76.5 | 38.5 | 61.8 | 0.6 | 0.1 | E | |
| 30 | 10.8 | 12.3 | 8.2 | 9.9 | 1.0 | 2.8 | 92.5 | 63.5 | 77.9 | 0.7 | 0.1 | NE | |
| 31 | 10.9 | 20.4 | 8.9 | 12.7 | 0.0 | 9.7 | 93.5 | 49.0 | 77.8 | 1.8 | 0.2 | SSW | |
| 合計 平均 | 11.2 | 18.0 | 8.3 | 12.0 | 258.5 | 239.0 | 7.7 | 87.7 | 55.3 | 74.6 | 1.8 | 0.3 | |

観測地点：総合気象 I 2011年 11月 気象月報

井川演習林

| 日 | 気 温 ℃ | | | | 降水量 mm | 水平面日射量 MJ/m ² | 相 对 湿 度 % | | | 風 速 m/s | | 風 向 | 記 事 |
|----------|-------|------|------|------|-----------|-----------------------------|-----------|------|------|---------|-----|-----|-----|
| | 9時気温 | 最 高 | 最 低 | 日平均 | | | 最 大 | 最 小 | 日平均 | 最 大 | 日平均 | | |
| 1 | 7.4 | 20.0 | 5.3 | 10.0 | 0.0 | 8.2 | 76.0 | 34.0 | 58.0 | 1.0 | 0.2 | ENE | |
| 2 | 7.1 | 18.2 | 4.3 | 9.7 | 0.0 | 7.9 | 80.5 | 40.0 | 57.4 | 0.9 | 0.1 | E | |
| 3 | 12.4 | 14.3 | 9.0 | 11.5 | 0.0 | 3.8 | 80.0 | 66.5 | 72.6 | 0.4 | 0.0 | S | |
| 4 | 11.1 | 20.4 | 9.1 | 12.8 | 0.0 | 8.8 | 82.0 | 54.5 | 71.6 | 1.4 | 0.2 | ENE | |
| 5 | 11.8 | 17.5 | 8.6 | 12.0 | 3.0 | 4.9 | 91.5 | 65.0 | 81.9 | 1.0 | 0.1 | S | |
| 6 | 12.2 | 15.2 | 9.9 | 12.5 | 1.5 | 3.1 | 95.0 | 90.5 | 92.7 | 0.1 | 0.0 | SSW | |
| 7 | 11.4 | 19.1 | 9.9 | 12.8 | 0.0 | 7.4 | 91.5 | 60.5 | 84.0 | 2.7 | 0.3 | SSW | |
| 8 | 8.9 | 13.8 | 6.5 | 9.3 | 0.0 | 4.4 | 89.5 | 69.5 | 83.8 | 2.1 | 0.1 | SSW | |
| 9 | 7.0 | 11.8 | 4.7 | 7.4 | 0.0 | 5.8 | 89.0 | 43.5 | 75.5 | 5.0 | 0.5 | SSW | |
| 10 | 7.3 | 10.8 | 5.6 | 7.6 | 4.5 | 5.4 | 93.5 | 74.5 | 88.3 | 0.0 | 0.0 | SSW | |
| 11 | 7.8 | 9.6 | 7.8 | 8.6 | 36.0 | 1.6 | 95.5 | 93.5 | 94.6 | 0.8 | 0.0 | SSW | |
| 12 | 9.0 | 17.0 | 6.8 | 10.3 | 0.5 | 7.5 | 95.0 | 62.0 | 81.2 | 1.7 | 0.3 | ENE | |
| 13 | 7.9 | 17.9 | 5.8 | 9.6 | 0.0 | 7.6 | 87.5 | 57.0 | 73.9 | 0.1 | 0.0 | E | |
| 14 | 6.9 | 16.2 | 4.5 | 8.5 | 0.0 | 7.4 | 73.0 | 55.5 | 67.6 | 1.2 | 0.3 | E | |
| 15 | 4.9 | 12.9 | 3.1 | 6.1 | 0.0 | 8.0 | 71.0 | 30.5 | 53.0 | 3.0 | 0.5 | E | |
| 16 | 3.3 | 12.6 | 1.3 | 5.1 | 0.0 | 7.5 | 79.0 | 46.5 | 67.8 | 9.1 | 0.7 | ENE | |
| 17 | 6.3 | 15.1 | 4.4 | 7.7 | 0.0 | 7.2 | 77.0 | 37.0 | 57.1 | 2.2 | 0.3 | NE | |
| 18 | 8.3 | 11.1 | 5.6 | 8.3 | 0.0 | 3.6 | 84.0 | 71.0 | 77.9 | 2.3 | 0.2 | SSW | |
| 19 | 10.5 | 15.0 | 8.6 | 11.9 | 106.0 | 0.5 | 95.5 | 79.5 | 92.8 | 1.4 | 0.2 | ENE | |
| 20 | 14.6 | 16.4 | 2.7 | 11.7 | 0.0 | 7.6 | 69.5 | 35.0 | 53.3 | 3.5 | 0.9 | SSW | |
| 21 | 3.6 | 10.4 | 0.1 | 3.7 | 0.0 | 6.8 | 62.0 | 23.5 | 41.4 | 2.9 | 0.8 | NE | |
| 22 | 0.2 | 10.4 | -1.3 | 2.8 | 0.0 | 7.4 | 76.5 | 47.0 | 61.7 | 1.6 | 0.3 | ENE | |
| 23 | 5.7 | 11.4 | 0.8 | 5.1 | 12.0 | 5.3 | 90.0 | 38.0 | 66.6 | 3.2 | 0.6 | NE | |
| 24 | 4.0 | 7.3 | -0.3 | 3.6 | 0.0 | 7.6 | 68.0 | 34.0 | 49.2 | 6.0 | 2.0 | NNE | |
| 25 | 2.3 | 10.4 | 0.0 | 3.1 | 0.0 | 7.2 | 67.5 | 25.5 | 46.3 | 2.4 | 0.6 | ESE | |
| 26 | 0.4 | 11.0 | -1.2 | 2.7 | 0.0 | 7.1 | 78.5 | 48.0 | 66.0 | 2.5 | 0.3 | NE | |
| 27 | 5.4 | 13.1 | 0.8 | 6.6 | 0.0 | 6.6 | 46.0 | 22.0 | 34.2 | 1.1 | 0.1 | NE | |
| 28 | 9.3 | 12.2 | 7.7 | 9.4 | 0.0 | 2.7 | 49.5 | 39.0 | 44.5 | 0.6 | 0.0 | S | |
| 29 | 10.1 | 15.5 | 8.4 | 10.7 | 0.0 | 4.6 | 69.0 | 49.0 | 61.3 | 0.0 | 0.0 | E | |
| 30 | 9.6 | 15.9 | 8.9 | 10.7 | 0.0 | 5.8 | 88.5 | 58.5 | 70.5 | 2.0 | 0.4 | S | |
| 合計 平均 | 7.6 | 14.1 | 4.9 | 8.4 | 163.5 | 179.1 | 6.0 | 79.7 | 51.7 | 67.6 | 2.1 | 0.3 | |

観測地点：総合気象 I 2011年 12月 気象月報

井川演習林

| 日 | 気 温 ℃ | | | | 降水量 mm | 水平面日射量 MJ/m ² | 相 对 湿 度 % | | | 風 速 m/s | | 風 向 | 記 事 |
|----------|-------|------|------|------|-----------|-----------------------------|-----------|------|------|---------|-----|-----|-----|
| | 9時気温 | 最 高 | 最 低 | 日平均 | | | 最 大 | 最 小 | 日平均 | 最 大 | 日平均 | | |
| 1 | 8.8 | 11.5 | 4.8 | 8.1 | - | 0.7 | 94.0 | 66.0 | 86.9 | 6.4 | 0.5 | SSW | |
| 2 | 5.4 | 7.1 | 4.5 | 5.6 | - | 2.0 | 95.0 | 92.0 | 93.6 | 0.0 | 0.0 | SW | |
| 3 | 8.1 | 11.6 | 5.9 | 8.9 | - | 0.8 | 95.5 | 59.0 | 87.4 | 1.7 | 0.3 | SSW | |
| 4 | 5.1 | 13.7 | 3.0 | 7.1 | - | 6.9 | 68.0 | 17.5 | 41.9 | 2.9 | 0.8 | S | |
| 5 | 4.1 | 11.5 | 2.6 | 5.7 | - | 6.8 | 81.0 | 20.0 | 52.6 | 2.1 | 0.5 | E | |
| 6 | 3.4 | 11.6 | 2.3 | 5.1 | - | 6.4 | 79.5 | 43.5 | 67.7 | 2.5 | 0.3 | SSW | |
| 7 | 3.9 | 11.8 | 2.3 | 5.5 | - | 6.8 | 85.0 | 50.5 | 67.9 | 1.3 | 0.3 | S | |
| 8 | 7.2 | 7.2 | 1.7 | 4.1 | - | 1.8 | 90.5 | 56.5 | 79.0 | 1.1 | 0.1 | SSW | |
| 9 | 1.4 | 3.9 | -2.8 | 0.7 | - | 4.9 | 92.0 | 31.0 | 62.2 | 2.6 | 0.3 | S | |
| 10 | -2.2 | 5.8 | -3.9 | 0.0 | - | 6.7 | 63.0 | 30.0 | 47.6 | 5.0 | 1.0 | S | |
| 11 | -0.1 | 9.8 | -2.1 | 1.7 | - | 6.8 | 57.5 | 30.5 | 47.7 | 5.2 | 0.5 | NE | |
| 12 | 1.0 | 10.0 | -0.5 | 2.8 | - | 6.7 | 62.5 | 37.0 | 50.0 | 2.4 | 0.5 | E | |
| 13 | 1.1 | 9.8 | 0.3 | 3.3 | - | 6.2 | 83.5 | 39.0 | 60.1 | 1.8 | 0.3 | SSW | |
| 14 | 4.8 | 10.1 | 0.9 | 4.4 | - | 4.7 | 66.5 | 24.5 | 45.0 | 5.9 | 0.7 | NE | |
| 15 | 6.8 | 12.3 | 1.6 | 6.3 | - | 6.6 | 44.5 | 10.5 | 28.4 | 4.2 | 1.1 | SSW | |
| 16 | 1.6 | 2.3 | -4.3 | -0.3 | - | 7.6 | 50.0 | 29.5 | 40.4 | 5.8 | 1.4 | ENE | |
| 17 | -4.2 | 5.2 | -4.9 | -1.9 | - | 6.7 | 56.5 | 23.0 | 40.3 | 2.1 | 0.4 | ENE | |
| 18 | -1.7 | 7.6 | -3.7 | 0.0 | - | 6.7 | 61.0 | 21.5 | 44.6 | 3.7 | 0.7 | SSW | |
| 19 | -0.1 | 3.6 | -3.0 | -0.3 | - | 7.4 | 69.0 | 27.5 | 43.4 | 7.4 | 1.6 | ENE | |
| 20 | -2.5 | 4.9 | -4.4 | -1.1 | - | 6.8 | 61.5 | 21.0 | 44.2 | 3.1 | 0.5 | NE | |
| 21 | -2.0 | 8.0 | -3.1 | 0.4 | - | 6.1 | 66.5 | 26.0 | 51.3 | 2.9 | 0.5 | NE | |
| 22 | 2.5 | 4.5 | -1.9 | 1.3 | - | 3.6 | 61.5 | 24.0 | 42.4 | 6.9 | 1.0 | S | |
| 23 | -2.0 | 6.1 | -3.5 | -0.6 | - | 7.1 | 77.5 | 35.0 | 55.8 | 1.9 | 0.4 | ENE | |
| 24 | -4.7 | 3.0 | -5.0 | -2.6 | - | 6.0 | 73.5 | 21.5 | 50.0 | 3.8 | 0.6 | SSW | |
| 25 | -3.6 | -0.2 | -5.4 | -3.8 | - | 4.3 | 61.5 | 34.0 | 45.8 | 5.0 | 1.1 | SSW | |
| 26 | -4.1 | -0.3 | -6.2 | -4.1 | - | 6.9 | 46.0 | 17.5 | 32.4 | 12.4 | 2.6 | NNE | |
| 27 | -5.5 | 4.1 | -6.8 | -3.4 | - | 6.8 | 57.5 | 21.0 | 41.4 | 2.0 | 0.5 | NE | |
| 28 | -4.2 | 4.7 | -6.1 | -2.2 | - | 6.3 | 80.0 | 47.5 | 63.3 | 2.0 | 0.2 | SSW | |
| 29 | -3.0 | 6.0 | -4.5 | -0.3 | - | 7.0 | 67.0 | 28.0 | 50.9 | 3.9 | 0.6 | SSW | |
| 30 | -3.1 | 5.4 | -4.1 | -0.7 | - | 6.8 | 61.0 | 29.5 | 43.3 | 3.4 | 0.8 | SSW | |
| 31 | -4.5 | 4.8 | -5.3 | -1.5 | - | 7.3 | 76.0 | 42.5 | 64.1 | 2.5 | 0.4 | S | |
| 合計 平均 | 0.6 | 7.0 | -1.7 | 1.5 | - | 178.2 | 5.7 | 70.5 | 34.1 | 53.9 | 3.7 | 0.7 | |