

ข้อมูลอากาศประเทศไทยสำหรับงานอนุรักษ์พลังงาน
จังหวัด ขอนแก่น



โดย
ผศ.ธนิต จินดาวงศ์
คมกฤษ ชูเกียรติมั่น
ร.อ.หญิงปริมลภา วสุวัต

สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย
สิงหาคม 2543

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ตารางสรุปรวมผลของข้อมูลทุกประเภทจังหวัดขอนแก่น

| CLIMATOLOGICAL DATA FOR THE PERIOD 1981-1998 | | | | | | | | | | | | | station : KHON KAEN | |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------------------|--|
| Elevation of station above MSL 165 Meters | | | | | | | | | | | | | Latitude: 16 26 N | |
| | | | | | | | | | | | | | Longitude: 102 50 E | |
| | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | ANNUAL | |
| TEMPERATURE (°C) | | | | | | | | | | | | | | |
| Averages | | | | | | | | | | | | | | |
| Daily Maximum | 29.9 | 32.4 | 34.5 | 35.2 | 33.3 | 32.3 | 31.7 | 31.1 | 30.7 | 30.1 | 29.9 | 28.7 | 31.7 | |
| Monthly Mean | 23.1 | 25.9 | 28.6 | 30.1 | 29.1 | 28.7 | 28.2 | 27.8 | 27.3 | 26.3 | 24.9 | 22.5 | 26.9 | |
| Daily Minimum | 17.3 | 20.3 | 23.4 | 25.9 | 25.9 | 25.9 | 25.5 | 25.2 | 24.7 | 23.3 | 20.6 | 17.1 | 22.9 | |
| Dry bulb Standard Deviation | 5.1 | 5.1 | 5.2 | 4.5 | 3.9 | 3.0 | 2.9 | 2.7 | 2.7 | 3.4 | 4.1 | 5.1 | 4.0 | |
| Extremes | | | | | | | | | | | | | | |
| Highest | 35.6 | 38.1 | 40.8 | 42.1 | 40.5 | 38.5 | 36.9 | 35.8 | 36.0 | 35.1 | 35.5 | 34.8 | 42.1 | |
| Lowest | 8.6 | 13.0 | 11.3 | 19.0 | 22.0 | 22.0 | 21.3 | 20.9 | 21.1 | 15.1 | 11.1 | 8.1 | 8.1 | |
| Monthly Dew Point | 15.7 | 17.6 | 19.1 | 21.4 | 23.4 | 23.7 | 23.5 | 23.7 | 23.7 | 22.1 | 18.9 | 15.3 | 20.7 | |
| Dew Point Standard Deviation | 3.1 | 3.1 | 3.2 | 2.1 | 1.4 | 1.1 | 1.0 | 1.0 | 1.2 | 2.3 | 3.0 | 3.2 | 2.1 | |
| Monthly Wet bulb Temperature | 18.6 | 20.6 | 22.4 | 24.2 | 25.2 | 25.2 | 24.9 | 24.9 | 24.8 | 23.5 | 21.0 | 18.2 | 22.8 | |
| DEGREE DAY BASE 18.3 °C | | | | | | | | | | | | | | |
| Heating | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| Cooling | 148.8 | 218.6 | 317.5 | 354.5 | 335.2 | 310.5 | 305.1 | 292.6 | 268.3 | 246.9 | 195.7 | 129.5 | 3,123.2 | |
| RELATIVE HUMIDITY (%) | | | | | | | | | | | | | | |
| Averages | | | | | | | | | | | | | | |
| Monthly Mean | 65.9 | 63.3 | 59.9 | 62.5 | 73.1 | 75.9 | 77.0 | 79.7 | 82.2 | 78.9 | 71.5 | 66.6 | 71.4 | |
| Hour 01:00-06:00 | 80.7 | 76.5 | 71.8 | 74.6 | 84.8 | 86.0 | 87.0 | 88.8 | 92.4 | 90.9 | 85.8 | 82.3 | 83.5 | |
| Hour 07:00-12:00 | 72.4 | 71.0 | 66.9 | 67.7 | 75.8 | 78.4 | 79.7 | 82.4 | 83.5 | 79.5 | 73.8 | 71.2 | 75.2 | |
| Hour 13:00-18:00 | 43.4 | 43.1 | 42.1 | 45.5 | 57.1 | 61.4 | 62.8 | 65.9 | 67.0 | 62.1 | 51.3 | 44.2 | 53.8 | |
| Hour 19:00-24:00 | 67.1 | 62.6 | 58.7 | 62.1 | 74.7 | 78.0 | 78.6 | 81.7 | 85.8 | 83.3 | 75.0 | 68.7 | 73.0 | |
| WIND | | | | | | | | | | | | | | |
| Average Speed (m/s) | 0.5 | 0.7 | 0.8 | 0.8 | 0.9 | 1.2 | 1.2 | 1.1 | 0.5 | 0.6 | 0.7 | 0.7 | 0.8 | |
| Prevailing wind | NE | NE | S | S | S | SW | SW | SW | SW | NE | NE | NE | NE | |
| Maximum Speed (m/s) | 6.7 | 7.2 | 12.9 | 24.2 | 12.9 | 9.3 | 10.3 | 10.3 | 7.2 | 10.3 | 9.3 | 8.2 | 24.2 | |
| SKY COVER (0-10) | | | | | | | | | | | | | | |
| Average Sky Condition | 2.1 | 2.6 | 3 | 4.3 | 6.2 | 7.3 | 7.5 | 8.1 | 6.8 | 5.2 | 3.7 | 2.4 | 4.9 | |
| Percentage of Sky cover | | | | | | | | | | | | | | |
| Clear sky (0-3) | 75 | 69 | 65 | 47 | 23 | 12 | 11 | 6 | 17 | 37 | 55 | 72 | 41 | |
| Partly Cloudy sky (4-7) | 17 | 20 | 21 | 31 | 37 | 32 | 30 | 26 | 34 | 30 | 25 | 17 | 27 | |
| Cloudy sky (8-10) | 8 | 11 | 14 | 22 | 40 | 56 | 59 | 67 | 49 | 33 | 20 | 11 | 33 | |
| SUNSHINE DURATION* (hours) | | | | | | | | | | | | | | |
| Average Monthly total | 252.7 | 238.4 | 251.8 | 252.6 | 230.5 | 171.4 | 165.3 | 156.8 | 170.4 | 214.2 | 228.5 | 217.2 | 2,549.8 | |
| Percentage of Sunshine | 67.9 | 68.5 | 67.7 | 70.2 | 62.0 | 47.6 | 44.4 | 42.1 | 47.3 | 57.6 | 63.5 | 58.4 | 58.0 | |
| SOLAR RADIATION* (W/m²) | | | | | | | | | | | | | | |
| Average Hourly max | 725.9 | 757.4 | 829.3 | 847.5 | 878.4 | 866.7 | 828.4 | 827.9 | 744.4 | 813.7 | 728.9 | 757.2 | 800.5 | |
| Average Hourly mean | 295.9 | 317.2 | 359.7 | 370.5 | 371.9 | 373.5 | 367.8 | 338.0 | 292.6 | 340.8 | 293.4 | 319.1 | 336.8 | |
| Average Daily Total | 4,438.0 | 4,758.0 | 5,394.9 | 5,556.8 | 5,578.4 | 5,602.3 | 5,517.2 | 5,069.8 | 4,389.0 | 5,112.7 | 4,401.1 | 4,786.6 | 5,050.4 | |
| RAINFALL (mm) | | | | | | | | | | | | | | |
| Average Monthly total | 1.8 | 24.2 | 42.5 | 66.9 | 166.0 | 176.1 | 188.2 | 231.6 | 242.8 | 133.7 | 25.7 | 5.2 | 1,304.7 | |
| Daily record high | 13.0 | 54.4 | 59.5 | 76.0 | 82.3 | 139.8 | 132.0 | 234.4 | 174.2 | 112.5 | 37.2 | 29.8 | 234.4 | |
| Average Number of rainy days (0.1 mm. Or more) | 1 | 2 | 4 | 7 | 15 | 16 | 17 | 18 | 17 | 11 | 3 | 1 | 112 | |
| EVAPORATION (mm) | | | | | | | | | | | | | | |
| Average Monthly total | 125.9 | 139.5 | 183.8 | 191.1 | 173.1 | 153.4 | 147.1 | 127.8 | 119.3 | 123.3 | 124.9 | 126.0 | 1,735.2 | |

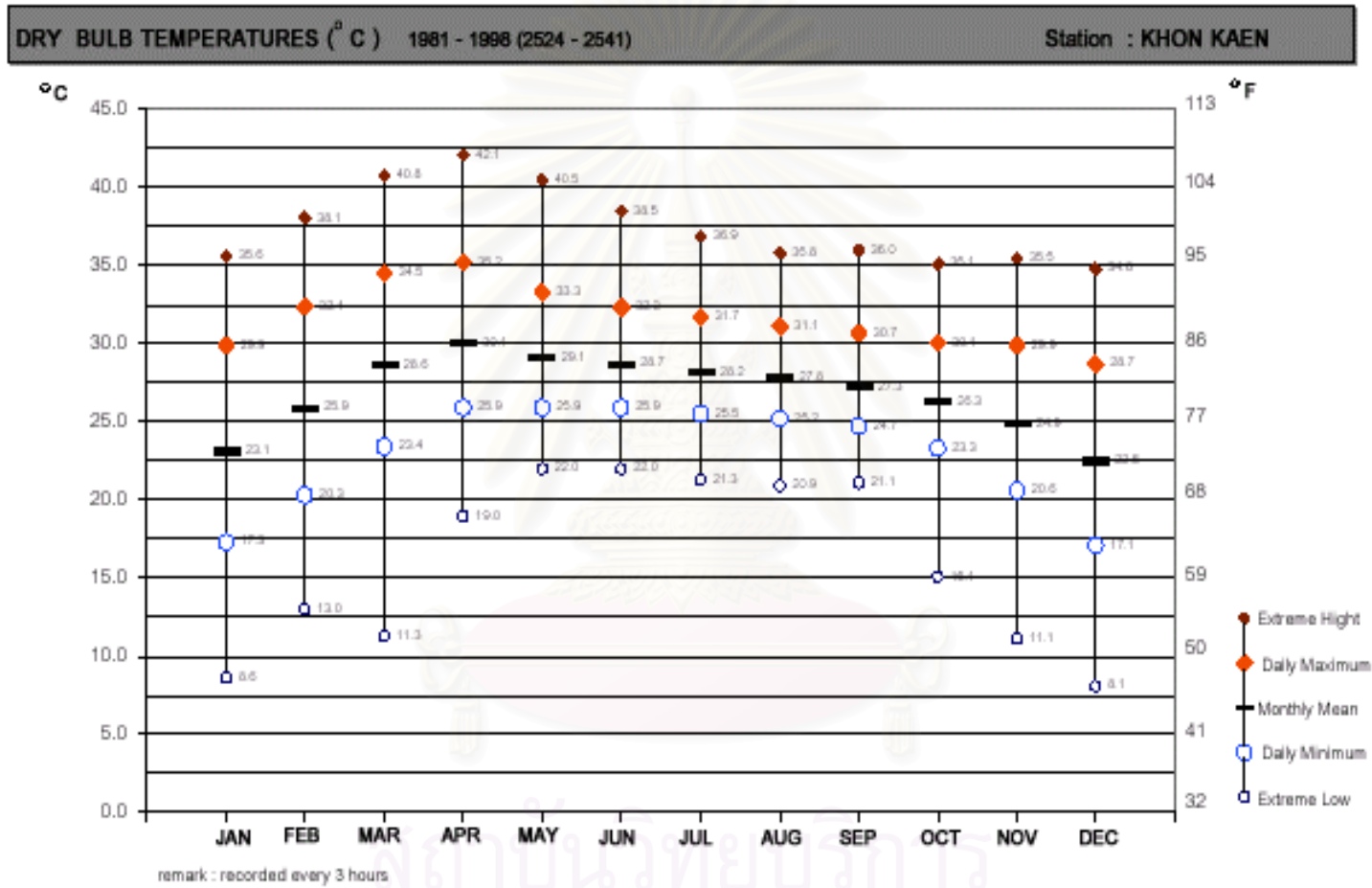
remark: 1 m/s = 3.597 km/h, = 2.237 mph, = 196.85 fpm, = 1.9455 knots

(*) data base on 1997 - 1998 recorded period

1 W/m2 = 0.317 Btu/h.ft2

(-) missing value or no data report

แผนภูมิอุณหภูมิกระเปาะแห้ง (dry bulb temperatures)

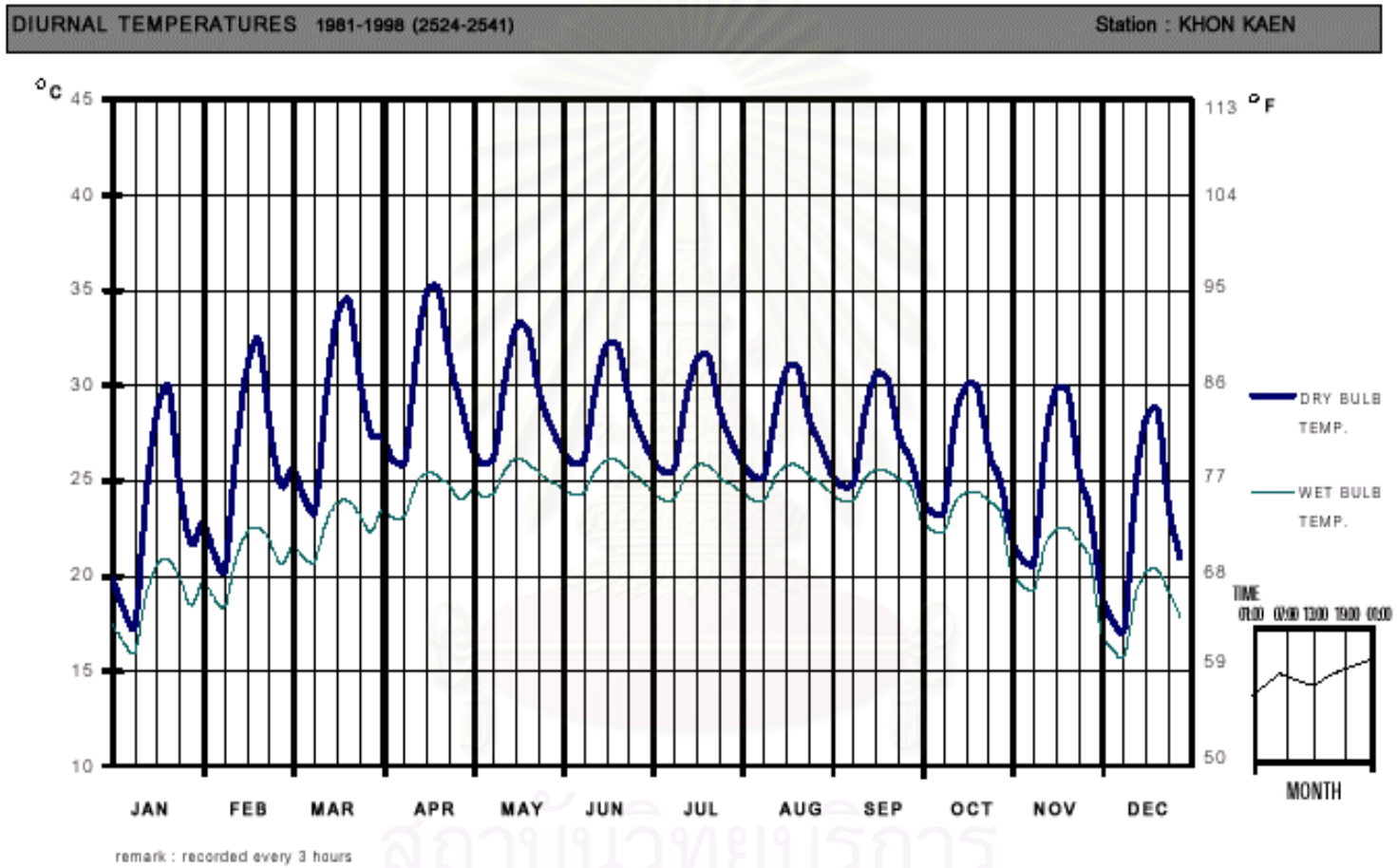


จุฬาลงกรณ์มหาวิทยาลัย

ตารางแสดงผลข้อมูลอุณหภูมิกระเปาะเปียก (wet bulb temperatures)

| WET BULB TEMPERATURES (°C) 1981 - 1998 (2524 - 2541) | | | | | | | | | | | | | Station : KHON KAEN | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------|------|------|----------|------|------|-------|------|------|-------|------|------|---------------------|------|------|------|------|------|------|------|------|--------|------|------|-----------|------|------|---------|------|------|----------|------|------|----------|------|------|--------|------|------|
| MONTH | JANUARY | | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | ANNUAL | | |
| DAY | min | mean | max | min | mean | max | min | mean | max | min | mean | max | min | mean | max | min | mean | max | min | mean | max | min | mean | max | min | mean | max | min | mean | max | min | mean | max | | | | | | |
| 1 | 15.9 | 18.4 | 20.8 | 16.1 | 18.9 | 21.1 | 19.8 | 21.3 | 22.9 | 22.3 | 23.7 | 24.9 | 24.0 | 25.0 | 26.2 | 24.7 | 25.5 | 26.6 | 23.9 | 25.1 | 26.2 | 23.9 | 24.8 | 25.9 | 24.0 | 25.1 | 26.0 | 23.5 | 24.4 | 25.4 | 20.0 | 21.6 | 23.0 | 16.8 | 18.8 | 20.4 | 21.2 | 22.7 | 24.1 |
| 2 | 16.0 | 18.7 | 21.1 | 16.3 | 19.0 | 21.2 | 18.6 | 20.6 | 22.4 | 22.9 | 24.1 | 25.5 | 24.1 | 25.1 | 26.3 | 24.7 | 25.5 | 26.6 | 23.9 | 24.9 | 26.2 | 24.2 | 25.0 | 25.8 | 24.1 | 25.0 | 26.0 | 23.4 | 24.2 | 25.0 | 20.1 | 21.7 | 23.1 | 16.5 | 18.5 | 20.5 | 21.2 | 22.7 | 24.1 |
| 3 | 16.4 | 19.0 | 21.3 | 17.1 | 19.7 | 21.8 | 18.4 | 20.7 | 22.6 | 22.9 | 24.1 | 25.2 | 24.2 | 25.1 | 26.4 | 24.5 | 25.5 | 26.6 | 24.2 | 25.1 | 26.2 | 24.2 | 25.2 | 26.0 | 24.0 | 24.9 | 26.2 | 23.3 | 24.1 | 25.0 | 20.2 | 21.8 | 23.1 | 16.8 | 18.8 | 20.7 | 21.4 | 22.8 | 24.2 |
| 4 | 16.6 | 19.2 | 21.4 | 17.5 | 19.9 | 22.0 | 18.7 | 20.9 | 22.8 | 22.6 | 23.9 | 25.3 | 24.0 | 25.1 | 26.3 | 24.6 | 25.5 | 26.7 | 24.0 | 24.9 | 25.8 | 24.3 | 25.1 | 25.9 | 23.9 | 24.9 | 26.0 | 23.2 | 24.1 | 24.9 | 20.3 | 21.6 | 22.7 | 16.8 | 19.0 | 21.0 | 21.4 | 22.9 | 24.2 |
| 5 | 16.5 | 18.8 | 20.8 | 17.5 | 19.9 | 21.9 | 18.9 | 20.6 | 22.2 | 22.1 | 23.6 | 25.1 | 24.0 | 24.8 | 25.7 | 24.6 | 25.5 | 26.5 | 23.9 | 24.7 | 25.7 | 23.9 | 24.9 | 25.8 | 24.0 | 25.1 | 26.1 | 23.1 | 24.2 | 25.1 | 20.0 | 21.6 | 23.1 | 17.1 | 19.3 | 21.3 | 21.3 | 22.7 | 24.1 |
| 6 | 16.0 | 18.6 | 20.9 | 17.7 | 20.0 | 21.9 | 18.7 | 20.6 | 22.4 | 22.4 | 23.9 | 25.4 | 23.5 | 24.8 | 25.8 | 24.4 | 25.2 | 26.5 | 23.7 | 24.7 | 25.9 | 23.7 | 24.8 | 25.8 | 23.9 | 24.8 | 25.7 | 23.1 | 24.1 | 25.0 | 20.2 | 21.9 | 23.3 | 16.8 | 18.8 | 20.7 | 21.2 | 22.7 | 24.1 |
| 7 | 16.2 | 18.6 | 20.8 | 17.4 | 19.8 | 21.7 | 19.1 | 21.1 | 23.0 | 22.7 | 23.9 | 25.1 | 23.9 | 25.0 | 25.8 | 24.2 | 25.2 | 26.2 | 24.0 | 24.9 | 26.0 | 23.5 | 24.7 | 25.8 | 23.7 | 24.9 | 26.0 | 23.1 | 24.1 | 24.9 | 20.3 | 21.9 | 23.4 | 15.9 | 18.2 | 20.2 | 21.2 | 22.7 | 24.1 |
| 8 | 15.8 | 18.3 | 20.3 | 17.6 | 19.8 | 21.8 | 19.5 | 21.5 | 23.4 | 22.7 | 23.7 | 25.0 | 23.9 | 25.0 | 26.1 | 24.2 | 25.2 | 26.1 | 24.1 | 25.0 | 25.9 | 23.7 | 24.7 | 25.6 | 24.0 | 24.8 | 25.8 | 23.1 | 24.1 | 25.0 | 19.9 | 21.5 | 22.9 | 15.6 | 17.8 | 19.9 | 21.2 | 22.6 | 24.0 |
| 9 | 15.1 | 18.0 | 20.6 | 17.6 | 20.0 | 22.0 | 19.7 | 21.6 | 23.2 | 22.2 | 23.5 | 24.8 | 24.0 | 24.9 | 26.1 | 24.0 | 25.2 | 26.2 | 24.3 | 25.1 | 25.9 | 23.8 | 24.8 | 26.0 | 23.8 | 24.7 | 25.6 | 23.1 | 24.0 | 25.0 | 19.8 | 21.2 | 22.6 | 15.8 | 18.2 | 20.4 | 21.1 | 22.6 | 24.0 |
| 10 | 15.6 | 18.3 | 20.8 | 17.9 | 20.1 | 21.8 | 20.1 | 22.0 | 23.6 | 22.5 | 24.0 | 25.5 | 24.0 | 24.9 | 25.9 | 24.3 | 25.3 | 26.3 | 24.2 | 24.9 | 25.9 | 23.9 | 24.8 | 25.7 | 24.1 | 24.8 | 25.8 | 23.0 | 24.0 | 25.0 | 19.0 | 20.6 | 22.1 | 16.2 | 18.5 | 20.7 | 21.2 | 22.7 | 24.1 |
| 11 | 15.6 | 18.4 | 20.9 | 18.1 | 20.2 | 22.2 | 20.7 | 22.6 | 24.4 | 23.1 | 24.3 | 25.9 | 24.3 | 25.1 | 25.9 | 24.0 | 25.1 | 26.1 | 23.9 | 24.9 | 25.8 | 23.7 | 24.8 | 25.7 | 23.9 | 24.8 | 25.7 | 22.9 | 23.8 | 24.7 | 19.0 | 20.8 | 22.3 | 16.3 | 18.8 | 21.0 | 21.3 | 22.8 | 24.2 |
| 12 | 15.9 | 18.7 | 21.2 | 18.3 | 20.7 | 22.7 | 21.1 | 22.9 | 24.5 | 23.2 | 24.2 | 25.7 | 24.1 | 25.1 | 26.2 | 24.1 | 25.1 | 26.0 | 23.8 | 24.8 | 25.8 | 23.7 | 24.8 | 25.9 | 23.8 | 24.9 | 25.8 | 23.0 | 23.9 | 24.8 | 19.6 | 21.2 | 22.6 | 16.2 | 18.6 | 20.7 | 21.4 | 22.9 | 24.3 |
| 13 | 16.3 | 18.9 | 21.1 | 19.1 | 21.2 | 23.1 | 21.7 | 23.1 | 24.8 | 22.8 | 23.9 | 25.2 | 24.2 | 25.1 | 26.2 | 24.1 | 25.0 | 26.0 | 24.0 | 25.0 | 26.0 | 23.8 | 24.9 | 26.1 | 24.1 | 24.9 | 25.8 | 23.0 | 24.0 | 24.9 | 20.0 | 21.5 | 22.8 | 16.0 | 18.6 | 21.0 | 21.6 | 23.0 | 24.4 |
| 14 | 16.0 | 18.6 | 20.9 | 19.0 | 21.2 | 23.2 | 21.0 | 22.7 | 24.3 | 23.1 | 24.2 | 25.3 | 24.0 | 24.9 | 25.8 | 24.1 | 25.2 | 26.2 | 23.9 | 24.9 | 25.7 | 24.0 | 25.0 | 26.0 | 24.0 | 25.0 | 25.9 | 22.9 | 24.0 | 24.9 | 20.0 | 21.6 | 23.0 | 16.3 | 18.7 | 20.9 | 21.5 | 23.0 | 24.3 |
| 15 | 16.0 | 18.5 | 20.8 | 19.1 | 21.2 | 23.0 | 20.9 | 22.5 | 24.0 | 23.0 | 24.0 | 25.2 | 24.2 | 25.1 | 26.3 | 24.3 | 25.3 | 26.3 | 24.1 | 24.9 | 25.9 | 24.3 | 25.0 | 25.9 | 23.9 | 24.9 | 25.9 | 22.9 | 24.0 | 24.9 | 20.1 | 21.5 | 22.9 | 16.3 | 18.6 | 20.5 | 21.6 | 23.0 | 24.3 |
| 16 | 15.7 | 18.5 | 20.8 | 18.9 | 21.4 | 23.3 | 21.2 | 22.6 | 24.2 | 22.8 | 24.1 | 25.2 | 24.4 | 25.2 | 26.3 | 24.6 | 25.4 | 26.2 | 24.1 | 24.9 | 25.9 | 24.1 | 25.1 | 26.1 | 24.2 | 24.9 | 25.6 | 23.0 | 24.2 | 25.1 | 20.1 | 21.8 | 23.5 | 15.9 | 18.2 | 20.3 | 21.6 | 23.0 | 24.4 |
| 17 | 15.6 | 18.4 | 20.9 | 19.3 | 21.4 | 23.3 | 21.1 | 22.7 | 24.4 | 23.2 | 24.3 | 25.5 | 23.9 | 25.1 | 26.3 | 24.4 | 25.1 | 26.0 | 24.2 | 25.1 | 25.9 | 24.0 | 25.0 | 25.9 | 23.8 | 24.7 | 25.6 | 23.3 | 24.2 | 25.1 | 20.3 | 21.8 | 23.2 | 15.7 | 18.0 | 20.2 | 21.6 | 23.0 | 24.3 |
| 18 | 16.0 | 18.7 | 21.0 | 19.3 | 21.3 | 23.0 | 20.6 | 22.4 | 24.1 | 23.4 | 24.3 | 25.4 | 24.2 | 25.2 | 25.9 | 24.1 | 25.2 | 26.1 | 24.0 | 25.0 | 26.0 | 23.9 | 24.8 | 26.0 | 24.0 | 24.8 | 25.7 | 22.8 | 24.0 | 24.9 | 19.6 | 21.2 | 22.7 | 15.8 | 18.2 | 20.3 | 21.5 | 22.9 | 24.3 |
| 19 | 15.9 | 18.8 | 21.4 | 19.1 | 20.9 | 22.5 | 21.3 | 22.9 | 24.7 | 23.5 | 24.7 | 25.8 | 24.4 | 25.3 | 26.2 | 24.2 | 25.1 | 26.0 | 24.0 | 25.1 | 26.0 | 23.9 | 24.9 | 26.0 | 23.9 | 24.9 | 25.9 | 23.0 | 24.0 | 24.8 | 18.9 | 20.8 | 22.4 | 15.7 | 18.2 | 20.4 | 21.5 | 23.0 | 24.3 |
| 20 | 16.3 | 18.9 | 21.2 | 18.8 | 20.8 | 22.6 | 20.9 | 22.9 | 24.6 | 23.5 | 24.5 | 25.2 | 24.4 | 25.3 | 26.1 | 24.4 | 25.3 | 26.3 | 24.1 | 25.0 | 25.9 | 24.1 | 24.8 | 25.6 | 24.0 | 24.8 | 25.6 | 22.3 | 23.5 | 24.3 | 18.8 | 20.7 | 22.5 | 15.4 | 18.0 | 20.2 | 21.4 | 22.9 | 24.2 |
| 21 | 16.5 | 18.9 | 21.1 | 18.3 | 20.6 | 22.4 | 21.3 | 22.9 | 24.4 | 23.4 | 24.5 | 25.9 | 24.1 | 25.2 | 26.2 | 24.1 | 25.1 | 26.1 | 24.0 | 24.8 | 25.6 | 24.0 | 24.9 | 26.0 | 23.6 | 24.6 | 25.5 | 21.8 | 23.0 | 24.0 | 18.8 | 20.6 | 22.2 | 15.3 | 17.9 | 20.1 | 21.3 | 22.8 | 24.1 |
| 22 | 16.4 | 18.9 | 21.1 | 18.5 | 20.6 | 22.5 | 21.5 | 23.0 | 24.4 | 23.2 | 24.3 | 25.6 | 24.4 | 25.4 | 26.4 | 24.4 | 25.4 | 26.3 | 24.0 | 24.8 | 25.6 | 24.1 | 25.1 | 26.0 | 23.8 | 24.7 | 25.4 | 21.7 | 22.9 | 24.0 | 18.7 | 20.6 | 22.3 | 15.3 | 17.7 | 19.9 | 21.3 | 22.8 | 24.1 |
| 23 | 16.3 | 18.6 | 20.7 | 18.8 | 21.0 | 23.1 | 21.8 | 23.1 | 24.7 | 23.2 | 24.4 | 25.5 | 24.6 | 25.5 | 26.6 | 24.4 | 25.3 | 26.2 | 23.6 | 24.7 | 25.8 | 24.1 | 25.0 | 26.0 | 23.8 | 24.6 | 25.2 | 21.8 | 23.0 | 24.0 | 18.6 | 20.5 | 22.2 | 15.0 | 17.3 | 19.3 | 21.3 | 22.7 | 24.1 |
| 24 | 15.9 | 18.5 | 20.9 | 19.3 | 21.3 | 23.1 | 21.9 | 23.3 | 24.6 | 23.2 | 24.6 | 25.8 | 24.5 | 25.4 | 26.3 | 24.1 | 25.1 | 26.0 | 23.8 | 24.7 | 25.6 | 24.3 | 25.0 | 25.8 | 23.8 | 24.6 | 25.2 | 21.6 | 22.7 | 23.7 | 18.1 | 20.0 | 21.5 | 14.2 | 16.9 | 19.2 | 21.2 | 22.7 | 24.0 |
| 25 | 16.2 | 18.7 | 20.8 | 19.6 | 21.8 | 23.7 | 22.0 | 23.4 | 24.8 | 23.6 | 24.7 | 25.9 | 24.5 | 25.3 | 26.1 | 24.5 | 25.2 | 26.0 | 24.0 | 24.8 | 25.8 | 24.3 | 25.1 | 26.0 | 23.8 | 24.7 | 25.2 | 21.1 | 22.5 | 23.9 | 17.9 | 19.9 | 21.5 | 14.2 | 17.1 | 19.6 | 21.3 | 22.7 | 24.1 |
| 26 | 16.3 | 18.5 | 20.6 | 19.9 | 21.8 | 23.7 | 22.0 | 23.3 | 24.6 | 23.5 | 24.7 | 25.8 | 24.4 | 25.4 | 26.5 | 24.2 | 25.0 | 25.8 | 23.9 | 24.9 | 25.9 | 23.9 | 25.0 | 25.8 | 23.9 | 24.6 | 25.3 | 21.1 | 22.4 | 23.7 | 18.2 | 20.2 | 21.8 | 14.8 | 17.5 | 19.8 | 21.3 | 22.8 | 24.1 |
| 27 | 15.9 | 18.4 | 20.6 | 19.9 | 21.7 | 23.2 | 22.3 | 23.4 | 24.6 | 23.4 | 24.5 | 25.7 | 24.4 | 25.3 | 26.2 | 23.9 | 24.8 | 25.7 | 24.0 | 25.0 | 26.1 | 24.3 | 25.1 | 25.7 | 23.8 | 24.7 | 25.5 | 20.7 | 22.0 | 23.3 | 18.6 | 20.5 | 22.2 | 15.2 | 17.8 | 20.0 | 21.4 | 22.8 | 24.1 |
| 28 | 15.8 | 18.1 | 20.3 | 19.6 | 21.4 | 22.9 | 21.9 | 23.3 | 24.7 | 23.3 | 24.6 | 25.9 | 24.3 | 25.3 | 26.3 | 23.9 | 24.8 | 25.7 | 24.2 | 25.0 | 26.1 | 24.3 | 25.2 | 26.0 | 23.8 | 24.6 | 25.2 | 20.6 | 22.1 | 23.4 | 18.6 | 20.4 | 21.9 | 15.2 | 17.7 | 20.0 | 21.3 | 22.7 | 24.0 |
| 29 | 15.5 | 18.3 | 20.7 | 18.6 | 21.1 | 23.4 | 22.0 | 23.6 | 25.0 | 23.7 | 24.8 | 25.9 | 24.3 | 25.2 | 26.2 | 24.0 | 25.0 | 26.0 | 23.9 | 24.7 | 25.6 | 24.0 | 25.0 | 26.0 | 23.6 | 24.5 | 25.3 | 20.9 | 22.2 | 23.5 | 18.0 | 20.0 | 21.7 | 15.1 | 17.7 | 19.9 | 21.1 | 22.7 | 24.1 |
| 30 | 15.9 | 18.7 | 21.0 | | | | 22.4 | 23.8 | 25.3 | 23.8 | 24.9 | 26.1 | 24.4 | 25.4 | 26.4 | 24.1 | 25.0 | 25.9 | 23.8 | 24.8 | 25.8 | 23.9 | 24.8 | 25.9 | 23.6 | 24.5 | 25.2 | 20.2 | 21.8 | 23.2 | 17.6 | 19.5 | 21.2 | 15.2 | 17.8 | 20.3 | 21.4 | 22.8 | 24.2 |
| 31 | 16.1 | 18.8 | 21.0 | | | | 22.3 | 23.5 | 24.7 | | | | 24.3 | 25.4 | 26.5 | | | | 23.8 | 24.7 | 25.8 | 23.9 | 25.0 | 26.1 | | | | 20.4 | 21.8 | 23.1 | | | | 15.5 | 18.1 | 20.5 | 20.9 | 22.5 | 24.0 |
| Average | 16.0 | 18.6 | 20.9 | 18.4 | 20.6 | 22.6 | 20.7 | 22.4 | 24.0 | 23.0 | 24.2 | 25.9 | 24.2 | 25.2 | 26.2 | 24.3 | 25.2 | 26.2 | 24.0 | 24.9 | 25.9 | 24.0 | 24.9 | 25.9 | 23.9 | 24.8 | 25.7 | 22.4 | 23.5 | 24.5 | 19.3 | 21.0 | 22.5 | 15.8 | 18.2 | 20.3 | 21.3 | 22.8 | 24.2 |
| Extremes | 8.0 | 26.5 | 11.0 | 27.4 | 8.5 | 28.5 | 15.9 | 29.2 | 18.7 | 35.5 | 20.6 | 29.5 | 20.5 | 28.8 | 20.5 | 29.2 | 20.2 | 28.5 | 13.9 | 29.0 | 9.4 | 27.0 | 7.5 | 26.0 | 7.5 | 35.5 | | | | | | | | | | | | | |

แผนภูมิความแตกต่างระหว่างอุณหภูมิกระเปาะแห้งและอุณหภูมิกระเปาะเปียก (diurnal temperatures)



สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

ตารางแสดงผลข้อมูลอุณหภูมิจุดน้ำค้าง (dew point temperatures)

| DEW POINT TEMPERATURES (°C) 1981 - 1998 (2524 - 2541) | | | | | | | | | | | | | Station : KHON KAEN | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------|------|------|----------|------|------|-------|------|------|-------|------|------|---------------------|------|------|------|------|------|------|------|------|--------|------|------|-----------|------|------|---------|------|------|----------|------|------|----------|------|------|--------|------|------|
| MONTH | JANUARY | | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | ANNUAL | | |
| DAY | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max | Min | Mean | Max |
| 1 | 15.0 | 15.6 | 16.7 | 14.9 | 15.7 | 17.0 | 17.8 | 18.4 | 18.9 | 19.1 | 20.6 | 21.5 | 22.2 | 22.8 | 23.4 | 23.5 | 24.0 | 24.3 | 23.2 | 23.5 | 23.9 | 23.0 | 23.3 | 23.6 | 23.6 | 24.0 | 24.6 | 22.7 | 23.1 | 23.5 | 18.8 | 19.7 | 20.8 | 15.5 | 16.1 | 16.9 | 19.9 | 20.6 | 21.3 |
| 2 | 15.1 | 15.9 | 17.0 | 15.0 | 15.8 | 17.1 | 16.5 | 17.3 | 18.0 | 19.7 | 20.9 | 21.5 | 22.1 | 22.8 | 23.2 | 23.6 | 24.0 | 24.3 | 23.0 | 23.3 | 23.9 | 23.2 | 23.5 | 24.0 | 23.7 | 24.0 | 24.2 | 22.4 | 22.9 | 23.5 | 19.2 | 19.9 | 21.1 | 15.0 | 15.8 | 16.7 | 19.9 | 20.5 | 21.2 |
| 3 | 15.6 | 16.3 | 17.0 | 16.0 | 16.8 | 18.1 | 16.7 | 17.5 | 18.9 | 20.0 | 21.0 | 21.5 | 22.1 | 22.8 | 23.2 | 23.6 | 24.0 | 24.3 | 23.3 | 23.6 | 23.9 | 23.3 | 23.7 | 24.4 | 23.6 | 23.9 | 24.3 | 22.4 | 22.9 | 23.5 | 19.4 | 20.0 | 21.0 | 15.6 | 16.2 | 17.1 | 20.1 | 20.7 | 21.4 |
| 4 | 15.8 | 16.5 | 17.7 | 16.3 | 17.1 | 18.1 | 17.4 | 17.9 | 18.9 | 20.4 | 21.0 | 21.3 | 22.4 | 23.0 | 23.3 | 23.7 | 24.0 | 24.3 | 23.4 | 23.6 | 24.1 | 23.6 | 23.9 | 24.2 | 23.5 | 23.8 | 24.3 | 22.6 | 23.0 | 23.4 | 18.8 | 19.7 | 20.5 | 15.8 | 16.5 | 17.7 | 20.3 | 20.8 | 21.5 |
| 5 | 15.0 | 16.0 | 16.6 | 16.6 | 17.3 | 18.4 | 17.1 | 17.7 | 18.5 | 19.6 | 20.5 | 21.0 | 22.2 | 22.7 | 23.1 | 23.8 | 24.2 | 24.7 | 22.9 | 23.3 | 23.7 | 23.4 | 23.7 | 24.0 | 23.6 | 24.0 | 24.5 | 22.7 | 23.2 | 23.6 | 18.9 | 19.7 | 20.9 | 16.2 | 16.7 | 17.5 | 20.2 | 20.7 | 21.4 |
| 6 | 15.3 | 16.0 | 16.8 | 16.6 | 17.2 | 17.9 | 17.2 | 17.6 | 18.6 | 19.5 | 20.5 | 21.3 | 21.7 | 22.5 | 23.0 | 23.6 | 23.9 | 24.2 | 23.0 | 23.4 | 24.1 | 23.1 | 23.5 | 23.9 | 23.3 | 23.8 | 24.2 | 22.3 | 22.8 | 23.5 | 19.4 | 20.0 | 21.0 | 15.7 | 16.2 | 17.1 | 20.1 | 20.6 | 21.3 |
| 7 | 15.3 | 15.8 | 16.4 | 15.8 | 16.8 | 17.9 | 17.4 | 17.9 | 18.8 | 19.6 | 20.6 | 21.3 | 22.0 | 22.6 | 23.0 | 23.6 | 23.8 | 24.1 | 23.2 | 23.4 | 23.8 | 22.8 | 23.3 | 23.8 | 23.4 | 24.0 | 24.4 | 22.1 | 22.7 | 23.4 | 19.6 | 20.0 | 20.8 | 14.8 | 15.4 | 16.2 | 20.0 | 20.5 | 21.2 |
| 8 | 14.6 | 15.4 | 16.1 | 15.6 | 16.7 | 17.3 | 18.0 | 18.4 | 18.9 | 19.9 | 20.8 | 21.3 | 21.8 | 22.8 | 23.2 | 23.5 | 23.8 | 24.3 | 23.1 | 23.5 | 23.8 | 23.1 | 23.4 | 23.7 | 23.6 | 23.9 | 24.6 | 22.5 | 22.9 | 23.6 | 18.9 | 19.3 | 20.3 | 14.4 | 14.9 | 16.0 | 19.9 | 20.5 | 21.1 |
| 9 | 14.2 | 15.1 | 16.7 | 16.2 | 17.0 | 18.3 | 16.7 | 18.0 | 18.7 | 19.5 | 20.5 | 21.0 | 22.5 | 22.9 | 23.3 | 23.3 | 23.7 | 24.2 | 23.2 | 23.6 | 24.1 | 23.2 | 23.5 | 24.0 | 23.5 | 23.9 | 24.3 | 22.6 | 22.9 | 23.3 | 18.7 | 19.1 | 20.0 | 14.6 | 15.2 | 16.6 | 19.9 | 20.5 | 21.2 |
| 10 | 14.6 | 15.4 | 16.6 | 15.8 | 17.1 | 17.9 | 17.3 | 18.5 | 19.3 | 20.2 | 20.9 | 21.4 | 22.3 | 22.9 | 23.2 | 23.2 | 23.7 | 24.0 | 23.3 | 23.5 | 23.8 | 23.4 | 23.6 | 23.8 | 23.2 | 23.8 | 24.3 | 22.1 | 22.7 | 23.4 | 17.6 | 18.4 | 19.6 | 15.2 | 15.7 | 16.8 | 19.8 | 20.5 | 21.2 |
| 11 | 14.5 | 15.4 | 16.8 | 16.9 | 17.4 | 18.3 | 18.5 | 19.2 | 19.6 | 20.6 | 21.2 | 21.6 | 22.2 | 23.1 | 23.8 | 23.3 | 23.7 | 23.9 | 23.2 | 23.6 | 23.9 | 23.1 | 23.5 | 23.8 | 23.6 | 23.9 | 24.3 | 22.0 | 22.6 | 23.3 | 17.8 | 18.5 | 19.5 | 15.2 | 16.0 | 17.0 | 20.1 | 20.7 | 21.3 |
| 12 | 15.0 | 15.9 | 17.0 | 17.3 | 18.0 | 19.2 | 19.1 | 19.7 | 20.4 | 20.3 | 21.0 | 21.6 | 22.7 | 23.3 | 23.8 | 23.2 | 23.5 | 23.9 | 23.0 | 23.4 | 23.9 | 23.0 | 23.5 | 24.1 | 23.4 | 23.8 | 24.4 | 22.4 | 22.7 | 23.4 | 18.5 | 19.1 | 20.0 | 15.3 | 15.8 | 16.4 | 20.3 | 20.8 | 21.5 |
| 13 | 15.4 | 16.1 | 17.0 | 17.6 | 18.4 | 19.0 | 19.4 | 19.9 | 20.7 | 19.9 | 21.0 | 21.6 | 22.5 | 23.3 | 23.6 | 23.2 | 23.5 | 23.9 | 23.3 | 23.5 | 23.7 | 23.0 | 23.6 | 23.8 | 23.4 | 23.9 | 24.2 | 22.3 | 22.8 | 23.3 | 18.8 | 19.5 | 20.3 | 15.1 | 16.0 | 17.2 | 20.3 | 20.9 | 21.5 |
| 14 | 15.2 | 15.9 | 16.8 | 17.3 | 18.2 | 18.6 | 18.3 | 19.2 | 19.6 | 20.2 | 21.3 | 21.9 | 22.8 | 23.5 | 23.8 | 23.3 | 23.6 | 23.8 | 23.0 | 23.3 | 23.9 | 23.4 | 23.7 | 24.1 | 23.6 | 24.0 | 24.3 | 22.3 | 22.8 | 23.6 | 19.0 | 19.6 | 20.2 | 15.4 | 16.0 | 17.1 | 20.3 | 20.9 | 21.5 |
| 15 | 15.0 | 15.5 | 16.6 | 16.8 | 17.9 | 19.0 | 17.8 | 18.8 | 19.3 | 20.1 | 21.2 | 21.6 | 23.1 | 23.6 | 24.1 | 23.3 | 23.8 | 24.1 | 23.2 | 23.5 | 23.7 | 23.3 | 23.8 | 24.2 | 23.3 | 23.9 | 24.4 | 22.4 | 22.7 | 23.4 | 18.8 | 19.5 | 20.2 | 15.3 | 15.9 | 16.8 | 20.2 | 20.8 | 21.4 |
| 16 | 14.7 | 15.6 | 16.7 | 17.4 | 18.1 | 19.0 | 16.8 | 18.7 | 19.7 | 19.7 | 21.2 | 21.9 | 23.0 | 23.7 | 24.0 | 23.1 | 23.7 | 24.0 | 23.4 | 23.6 | 24.0 | 23.5 | 23.8 | 24.3 | 23.3 | 23.9 | 24.3 | 22.6 | 23.0 | 23.6 | 19.3 | 19.8 | 20.8 | 15.0 | 15.4 | 16.1 | 20.1 | 20.9 | 21.6 |
| 17 | 14.7 | 15.5 | 17.0 | 17.4 | 18.1 | 18.8 | 18.0 | 18.8 | 19.4 | 20.2 | 21.5 | 22.2 | 23.3 | 23.7 | 24.2 | 23.1 | 23.5 | 23.9 | 23.2 | 23.6 | 24.0 | 23.3 | 23.7 | 24.2 | 23.5 | 23.7 | 24.0 | 22.7 | 23.0 | 23.4 | 19.3 | 19.8 | 20.3 | 14.6 | 15.1 | 16.2 | 20.3 | 20.8 | 21.5 |
| 18 | 15.0 | 15.7 | 16.6 | 17.0 | 18.0 | 18.7 | 17.6 | 18.6 | 19.4 | 20.2 | 21.4 | 22.2 | 23.0 | 23.6 | 24.2 | 23.2 | 23.7 | 24.2 | 23.2 | 23.7 | 24.3 | 23.4 | 23.7 | 24.0 | 23.3 | 23.8 | 24.2 | 22.2 | 22.7 | 23.2 | 18.7 | 19.1 | 19.8 | 14.7 | 15.3 | 16.5 | 20.1 | 20.8 | 21.4 |
| 19 | 15.1 | 16.0 | 17.5 | 16.1 | 17.4 | 18.1 | 18.7 | 19.3 | 19.7 | 20.7 | 21.6 | 22.4 | 22.9 | 23.7 | 24.2 | 23.0 | 23.5 | 23.9 | 23.5 | 23.7 | 24.1 | 23.5 | 23.7 | 24.0 | 23.3 | 23.8 | 24.3 | 22.0 | 22.7 | 23.3 | 17.9 | 18.6 | 19.5 | 14.8 | 15.4 | 16.4 | 20.1 | 20.8 | 21.4 |
| 20 | 15.4 | 16.2 | 17.3 | 16.3 | 17.3 | 17.9 | 18.1 | 19.1 | 19.9 | 20.8 | 21.8 | 22.4 | 22.8 | 23.6 | 24.1 | 23.6 | 23.8 | 24.0 | 23.0 | 23.5 | 23.9 | 23.5 | 23.7 | 24.0 | 23.4 | 23.8 | 24.2 | 21.4 | 22.0 | 22.9 | 18.0 | 18.5 | 19.6 | 14.5 | 15.1 | 15.9 | 20.1 | 20.7 | 21.3 |
| 21 | 15.2 | 16.0 | 17.1 | 16.2 | 17.1 | 17.9 | 18.0 | 19.1 | 19.6 | 21.4 | 22.0 | 22.2 | 22.8 | 23.3 | 23.7 | 23.2 | 23.4 | 24.0 | 22.8 | 23.3 | 23.6 | 23.2 | 23.6 | 24.3 | 23.0 | 23.4 | 24.0 | 20.6 | 21.4 | 22.2 | 17.7 | 18.4 | 19.2 | 14.1 | 14.8 | 15.9 | 19.8 | 20.5 | 21.1 |
| 22 | 15.3 | 16.0 | 17.3 | 16.6 | 17.2 | 17.7 | 18.3 | 19.3 | 19.9 | 21.2 | 21.8 | 22.2 | 22.8 | 23.5 | 23.8 | 23.3 | 23.8 | 24.3 | 22.8 | 23.3 | 23.6 | 23.5 | 23.8 | 24.4 | 22.6 | 23.5 | 23.9 | 20.7 | 21.3 | 22.1 | 17.9 | 18.4 | 19.4 | 13.9 | 14.5 | 15.5 | 19.9 | 20.5 | 21.2 |
| 23 | 14.8 | 15.6 | 16.4 | 17.4 | 17.9 | 18.8 | 18.7 | 19.8 | 20.3 | 20.2 | 21.6 | 22.2 | 22.9 | 23.6 | 24.1 | 23.2 | 23.7 | 24.0 | 23.0 | 23.4 | 23.7 | 23.4 | 24.0 | 24.5 | 23.0 | 23.5 | 23.9 | 20.7 | 21.4 | 22.2 | 17.7 | 18.2 | 19.0 | 13.1 | 14.1 | 14.9 | 19.8 | 20.6 | 21.2 |
| 24 | 14.8 | 15.6 | 16.9 | 17.6 | 18.2 | 19.2 | 19.0 | 20.0 | 20.9 | 21.7 | 22.1 | 22.8 | 23.1 | 23.7 | 24.2 | 23.4 | 23.5 | 23.6 | 23.2 | 23.4 | 23.6 | 23.6 | 24.0 | 24.4 | 22.6 | 23.4 | 24.1 | 20.2 | 21.0 | 21.6 | 16.6 | 17.5 | 18.2 | 13.0 | 13.7 | 15.0 | 19.9 | 20.5 | 21.2 |
| 25 | 15.0 | 15.8 | 17.2 | 18.4 | 19.1 | 20.1 | 18.7 | 20.1 | 20.7 | 21.2 | 22.3 | 22.6 | 23.0 | 23.7 | 24.1 | 22.9 | 23.6 | 24.1 | 22.9 | 23.3 | 23.5 | 23.9 | 24.1 | 24.3 | 22.7 | 23.4 | 24.2 | 20.0 | 20.9 | 22.1 | 16.4 | 17.3 | 18.5 | 13.1 | 14.1 | 15.5 | 19.9 | 20.6 | 21.4 |
| 26 | 15.2 | 15.8 | 16.7 | 18.8 | 19.3 | 20.2 | 19.1 | 20.1 | 20.7 | 21.8 | 22.3 | 22.8 | 23.7 | 24.0 | 24.2 | 23.1 | 23.6 | 24.0 | 23.1 | 23.4 | 23.8 | 23.5 | 23.8 | 24.2 | 22.4 | 23.3 | 23.9 | 20.0 | 20.7 | 21.2 | 17.2 | 17.7 | 18.4 | 13.8 | 14.4 | 15.5 | 20.1 | 20.7 | 21.3 |
| 27 | 14.6 | 15.5 | 16.6 | 18.2 | 19.1 | 19.8 | 19.8 | 20.4 | 20.9 | 21.5 | 22.2 | 22.6 | 23.6 | 23.9 | 24.3 | 23.1 | 23.4 | 23.7 | 23.2 | 23.6 | 24.2 | 23.3 | 23.8 | 24.3 | 23.0 | 23.5 | 24.1 | 19.2 | 20.2 | 20.9 | 17.5 | 18.1 | 19.2 | 14.2 | 14.7 | 15.7 | 20.1 | 20.7 | 21.4 |
| 28 | 14.4 | 15.2 | 16.4 | 17.9 | 18.7 | 19.7 | 19.7 | 20.4 | 20.8 | 21.7 | 22.2 | 22.6 | 23.7 | 23.9 | 24.2 | 22.9 | 23.2 | 23.6 | 23.4 | 23.7 | 24.0 | 23.5 | 23.9 | 24.5 | 22.4 | 23.3 | 23.8 | 19.7 | 20.2 | 21.3 | 17.4 | 18.0 | 18.6 | 14.2 | 14.8 | 15.7 | 20.1 | 20.6 | 21.3 |
| 29 | 14.6 | 15.4 | 16.6 | 17.1 | 18.2 | 19.3 | 20.3 | 20.8 | 21.7 | 21.8 | 22.4 | 22.9 | 23.6 | 23.8 | 24.0 | 23.3 | 23.6 | 24.2 | 22.9 | 23.3 | 23.8 | 23.4 | 23.8 | 24.2 | 22.7 | 23.2 | 23.9 | 20.2 | 20.5 | 21.0 | 17.0 | 17.5 | 18.2 | 14.2 | 14.9 | 15.8 | 20.1 | 20.6 | 21.3 |
| 30 | 14.8 | 15.5 | 16.7 | | | | 20.4 | 21.0 | 21.3 | 22.2 | 22.7 | 23.1 | 23.6 | 23.9 | 24.1 | 23.2 | 23.5 | 24.1 | 23.0 | 23.4 | 23.7 | 23.4 | 23.8 | 23.9 | 22.5 | 23.2 | 23.7 | 19.4 | 19.9 | 21.1 | 16.3 | 16.9 | 17.7 | 14.3 | 15.0 | 16.2 | 20.3 | 20.8 | 21.4 |
| 31 | 14.7 | 15.5 | 16.9 | | | | 19.6 | 20.5 | 21.0 | | | | 23.5 | 23.9 | 24.2 | | | | 23.1 | 23.4 | 23.9 | 23.4 | 23.9 | 24.3 | | | | 19.1 | 19.9 | 20.8 | | | | 14.7 | 15.4 | 16.6 | 19.7 | 20.3 | 21.1 |
| Average | 15.0 | 15.7 | 16.8 | 16.8 | 17.6 | 18.5 | 18.3 | 19.1 | 19.8 | 20.5 | 21.4 | 21.9 | 22.8 | 23.4 | 23.8 | 23.3 | 23.7 | 24.1 | 23.1 | 23.5 | 23.9 | 23.3 | 23.7 | 24.1 | 23.2 | 23.7 | 24.2 | 21.5 | 22.1 | 22.7 | 18.2 | 18.9 | 19.8 | 14.7 | 15.3 | 16.3 | 20.1 | 20.7 | 21.3 |
| Extremes | -0.1 | | 23.3 | 1.7 | | 26.2 | 1.0 | | 26.5 | 8.3 | | 27.3 | 12.1 | | 28.1 | 16.5 | | 27.6 | 18.7 | | 29.0 | 18.3 | | 27.4 | 16.5 | | 27.4 | 8.9 | | 28.1 | 5.9 | | 25.1 | | | | | | |

ตารางแสดงผลข้อมูลปริมาณองศาวัน การทำความร้อนและการทำความเย็น (heating and cooling degree days)

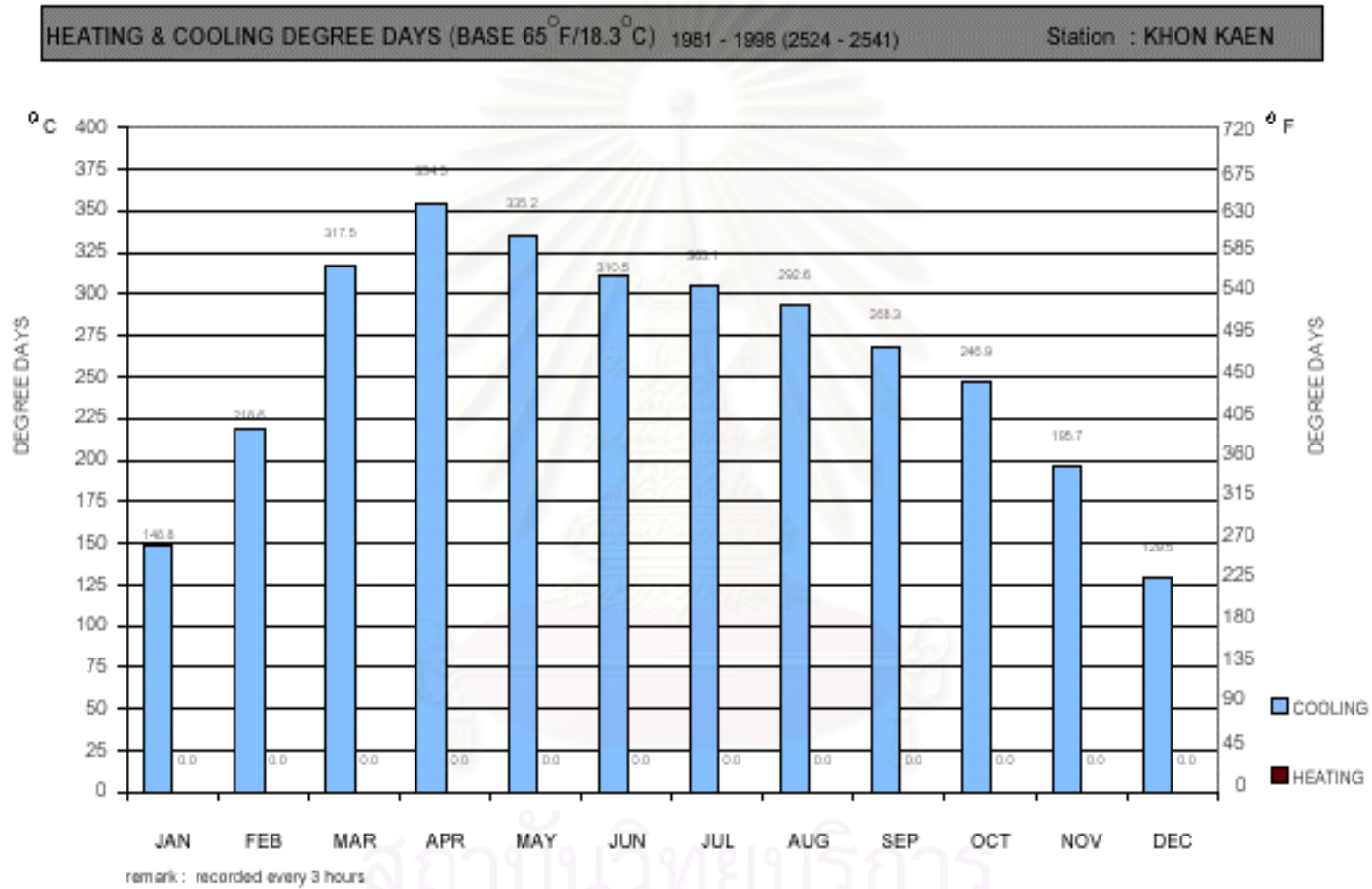
| HEATING & COOLING DEGREE DAYS BASE RANGE 35 - 100 °F (1.7 - 37.8 °C) 1981 - 1998 (2524 - 2541) | | | | | | | | | | | | | | Station : KHON KAEN | | | | | | | | | | | | | |
|--|------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------------------|---------|---------|---------|-----------|---------|---------|---------|----------|---------|----------|---------|---------|---------|
| MONTH | | JANUARY | | FEBRUARY | | MARCH | | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | | OCTOBER | | NOVEMBER | | DECEMBER | | ANNUAL | |
| Degree | | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating |
| °F | °C | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | 1.7 | 665.5 | 0.0 | 702.0 | 0.0 | 834.1 | 0.0 | 854.5 | 0.0 | 851.8 | 0.0 | 810.5 | 0.0 | 821.8 | 0.0 | 809.2 | 0.0 | 768.3 | 0.0 | 763.6 | 0.0 | 695.7 | 0.0 | 646.2 | 0.0 | 9,223.2 | 0.0 |
| 36 | 2.2 | 648.3 | 0.0 | 685.9 | 0.0 | 816.9 | 0.0 | 837.8 | 0.0 | 834.6 | 0.0 | 793.8 | 0.0 | 804.5 | 0.0 | 792.0 | 0.0 | 751.7 | 0.0 | 746.3 | 0.0 | 679.0 | 0.0 | 629.0 | 0.0 | 9,019.8 | 0.0 |
| 37 | 2.8 | 631.0 | 0.0 | 669.7 | 0.0 | 799.7 | 0.0 | 821.2 | 0.0 | 817.4 | 0.0 | 777.1 | 0.0 | 787.3 | 0.0 | 774.8 | 0.0 | 735.0 | 0.0 | 729.1 | 0.0 | 662.3 | 0.0 | 611.8 | 0.0 | 8,816.5 | 0.0 |
| 38 | 3.3 | 613.8 | 0.0 | 653.6 | 0.0 | 782.5 | 0.0 | 804.5 | 0.0 | 800.2 | 0.0 | 760.5 | 0.0 | 770.1 | 0.0 | 757.6 | 0.0 | 718.3 | 0.0 | 711.9 | 0.0 | 645.7 | 0.0 | 594.5 | 0.0 | 8,613.2 | 0.0 |
| 39 | 3.9 | 596.6 | 0.0 | 637.5 | 0.0 | 765.2 | 0.0 | 787.8 | 0.0 | 782.9 | 0.0 | 743.8 | 0.0 | 752.9 | 0.0 | 740.4 | 0.0 | 701.7 | 0.0 | 694.7 | 0.0 | 629.0 | 0.0 | 577.3 | 0.0 | 8,409.8 | 0.0 |
| 40 | 4.4 | 579.4 | 0.0 | 621.4 | 0.0 | 748.0 | 0.0 | 771.2 | 0.0 | 765.7 | 0.0 | 727.1 | 0.0 | 735.7 | 0.0 | 723.1 | 0.0 | 685.0 | 0.0 | 677.4 | 0.0 | 612.3 | 0.0 | 560.1 | 0.0 | 8,206.5 | 0.0 |
| 41 | 5.0 | 562.2 | 0.0 | 605.3 | 0.0 | 730.8 | 0.0 | 754.5 | 0.0 | 748.5 | 0.0 | 710.5 | 0.0 | 718.4 | 0.0 | 705.9 | 0.0 | 668.3 | 0.0 | 660.2 | 0.0 | 595.7 | 0.0 | 542.9 | 0.0 | 8,003.2 | 0.0 |
| 42 | 5.6 | 544.9 | 0.0 | 589.2 | 0.0 | 713.6 | 0.0 | 737.8 | 0.0 | 731.3 | 0.0 | 693.8 | 0.0 | 701.2 | 0.0 | 688.7 | 0.0 | 651.7 | 0.0 | 643.0 | 0.0 | 579.0 | 0.0 | 525.7 | 0.0 | 7,799.8 | 0.0 |
| 43 | 6.1 | 527.7 | 0.0 | 573.1 | 0.0 | 696.4 | 0.0 | 721.2 | 0.0 | 714.1 | 0.0 | 677.1 | 0.0 | 684.0 | 0.0 | 671.5 | 0.0 | 635.0 | 0.0 | 625.8 | 0.0 | 562.3 | 0.0 | 508.4 | 0.0 | 7,596.5 | 0.0 |
| 44 | 6.7 | 510.5 | 0.0 | 557.0 | 0.0 | 679.1 | 0.0 | 704.5 | 0.0 | 696.8 | 0.0 | 660.5 | 0.0 | 666.8 | 0.0 | 654.2 | 0.0 | 618.3 | 0.0 | 608.6 | 0.0 | 545.7 | 0.0 | 491.2 | 0.0 | 7,393.2 | 0.0 |
| 45 | 7.2 | 493.3 | 0.0 | 540.9 | 0.0 | 661.9 | 0.0 | 687.8 | 0.0 | 679.6 | 0.0 | 643.8 | 0.0 | 649.5 | 0.0 | 637.0 | 0.0 | 601.7 | 0.0 | 591.3 | 0.0 | 529.0 | 0.0 | 474.0 | 0.0 | 7,189.8 | 0.0 |
| 46 | 7.8 | 476.0 | 0.0 | 524.7 | 0.0 | 644.7 | 0.0 | 671.2 | 0.0 | 662.4 | 0.0 | 627.1 | 0.0 | 632.3 | 0.0 | 619.8 | 0.0 | 585.0 | 0.0 | 574.1 | 0.0 | 512.3 | 0.0 | 456.8 | 0.0 | 6,986.5 | 0.0 |
| 47 | 8.3 | 458.8 | 0.0 | 508.6 | 0.0 | 627.5 | 0.0 | 654.5 | 0.0 | 645.2 | 0.0 | 610.5 | 0.0 | 615.1 | 0.0 | 602.6 | 0.0 | 568.3 | 0.0 | 556.9 | 0.0 | 495.7 | 0.0 | 439.5 | 0.0 | 6,783.2 | 0.0 |
| 48 | 8.9 | 441.6 | 0.0 | 492.5 | 0.0 | 610.2 | 0.0 | 637.8 | 0.0 | 627.9 | 0.0 | 593.8 | 0.0 | 597.9 | 0.0 | 585.4 | 0.0 | 551.7 | 0.0 | 539.7 | 0.0 | 479.0 | 0.0 | 422.3 | 0.0 | 6,579.8 | 0.0 |
| 49 | 9.4 | 424.4 | 0.0 | 476.4 | 0.0 | 593.0 | 0.0 | 621.2 | 0.0 | 610.7 | 0.0 | 577.1 | 0.0 | 580.7 | 0.0 | 568.1 | 0.0 | 535.0 | 0.0 | 522.4 | 0.0 | 462.3 | 0.0 | 405.1 | 0.0 | 6,376.5 | 0.0 |
| 50 | 10.0 | 407.2 | 0.0 | 460.3 | 0.0 | 575.8 | 0.0 | 604.5 | 0.0 | 593.5 | 0.0 | 560.5 | 0.0 | 563.4 | 0.0 | 550.9 | 0.0 | 518.3 | 0.0 | 505.2 | 0.0 | 445.7 | 0.0 | 387.9 | 0.0 | 6,173.2 | 0.0 |
| 51 | 10.6 | 389.9 | 0.0 | 444.2 | 0.0 | 558.6 | 0.0 | 587.8 | 0.0 | 576.3 | 0.0 | 543.8 | 0.0 | 546.2 | 0.0 | 533.7 | 0.0 | 501.7 | 0.0 | 488.0 | 0.0 | 429.0 | 0.0 | 370.7 | 0.0 | 5,969.8 | 0.0 |
| 52 | 11.1 | 372.7 | 0.0 | 428.1 | 0.0 | 541.4 | 0.0 | 571.2 | 0.0 | 559.1 | 0.0 | 527.1 | 0.0 | 529.0 | 0.0 | 516.5 | 0.0 | 485.0 | 0.0 | 470.8 | 0.0 | 412.3 | 0.0 | 353.4 | 0.0 | 5,766.5 | 0.0 |
| 53 | 11.7 | 355.5 | 0.0 | 412.0 | 0.0 | 524.1 | 0.0 | 554.5 | 0.0 | 541.8 | 0.0 | 510.5 | 0.0 | 511.8 | 0.0 | 499.2 | 0.0 | 468.3 | 0.0 | 453.6 | 0.0 | 395.7 | 0.0 | 336.2 | 0.0 | 5,563.2 | 0.0 |
| 54 | 12.2 | 338.3 | 0.0 | 395.9 | 0.0 | 506.9 | 0.0 | 537.8 | 0.0 | 524.6 | 0.0 | 493.8 | 0.0 | 494.5 | 0.0 | 482.0 | 0.0 | 451.7 | 0.0 | 436.3 | 0.0 | 379.0 | 0.0 | 319.0 | 0.0 | 5,359.8 | 0.0 |
| 55 | 12.8 | 321.0 | 0.0 | 379.7 | 0.0 | 489.7 | 0.0 | 521.2 | 0.0 | 507.4 | 0.0 | 477.1 | 0.0 | 477.3 | 0.0 | 464.8 | 0.0 | 435.0 | 0.0 | 419.1 | 0.0 | 362.3 | 0.0 | 301.8 | 0.0 | 5,156.5 | 0.0 |
| 56 | 13.3 | 303.8 | 0.0 | 363.6 | 0.0 | 472.5 | 0.0 | 504.5 | 0.0 | 490.2 | 0.0 | 460.5 | 0.0 | 460.1 | 0.0 | 447.6 | 0.0 | 418.3 | 0.0 | 401.9 | 0.0 | 345.7 | 0.0 | 284.5 | 0.0 | 4,953.2 | 0.0 |
| 57 | 13.9 | 286.6 | 0.0 | 347.5 | 0.0 | 455.2 | 0.0 | 487.8 | 0.0 | 472.9 | 0.0 | 443.8 | 0.0 | 442.9 | 0.0 | 430.4 | 0.0 | 401.7 | 0.0 | 384.7 | 0.0 | 329.0 | 0.0 | 267.3 | 0.0 | 4,749.8 | 0.0 |
| 58 | 14.4 | 269.4 | 0.0 | 331.4 | 0.0 | 438.0 | 0.0 | 471.2 | 0.0 | 455.7 | 0.0 | 427.1 | 0.0 | 425.7 | 0.0 | 413.1 | 0.0 | 385.0 | 0.0 | 367.4 | 0.0 | 312.3 | 0.0 | 250.1 | 0.0 | 4,546.5 | 0.0 |
| 59 | 15.0 | 252.2 | 0.0 | 315.3 | 0.0 | 420.8 | 0.0 | 454.5 | 0.0 | 438.5 | 0.0 | 410.5 | 0.0 | 408.4 | 0.0 | 395.9 | 0.0 | 368.3 | 0.0 | 350.2 | 0.0 | 295.7 | 0.0 | 232.9 | 0.0 | 4,343.2 | 0.0 |
| 60 | 15.6 | 234.9 | 0.0 | 299.2 | 0.0 | 403.6 | 0.0 | 437.8 | 0.0 | 421.3 | 0.0 | 393.8 | 0.0 | 391.2 | 0.0 | 378.7 | 0.0 | 351.7 | 0.0 | 333.0 | 0.0 | 279.0 | 0.0 | 215.7 | 0.0 | 4,139.8 | 0.0 |
| 61 | 16.1 | 217.7 | 0.0 | 283.1 | 0.0 | 386.4 | 0.0 | 421.2 | 0.0 | 404.1 | 0.0 | 377.1 | 0.0 | 374.0 | 0.0 | 361.5 | 0.0 | 335.0 | 0.0 | 315.8 | 0.0 | 262.3 | 0.0 | 198.4 | 0.0 | 3,936.5 | 0.0 |
| 62 | 16.7 | 200.5 | 0.0 | 267.0 | 0.0 | 369.1 | 0.0 | 404.5 | 0.0 | 386.8 | 0.0 | 360.5 | 0.0 | 356.8 | 0.0 | 344.2 | 0.0 | 318.3 | 0.0 | 298.6 | 0.0 | 245.7 | 0.0 | 181.2 | 0.0 | 3,733.2 | 0.0 |
| 63 | 17.2 | 183.3 | 0.0 | 250.9 | 0.0 | 351.9 | 0.0 | 387.8 | 0.0 | 369.6 | 0.0 | 343.8 | 0.0 | 339.5 | 0.0 | 327.0 | 0.0 | 301.7 | 0.0 | 281.3 | 0.0 | 229.0 | 0.0 | 164.0 | 0.0 | 3,529.8 | 0.0 |
| 64 | 17.8 | 166.0 | 0.0 | 234.7 | 0.0 | 334.7 | 0.0 | 371.2 | 0.0 | 352.4 | 0.0 | 327.1 | 0.0 | 322.3 | 0.0 | 309.8 | 0.0 | 285.0 | 0.0 | 264.1 | 0.0 | 212.3 | 0.0 | 146.8 | 0.0 | 3,326.5 | 0.0 |
| 65 | 18.3 | 148.8 | 0.0 | 218.6 | 0.0 | 317.5 | 0.0 | 354.5 | 0.0 | 335.2 | 0.0 | 310.5 | 0.0 | 305.1 | 0.0 | 292.6 | 0.0 | 268.3 | 0.0 | 246.9 | 0.0 | 195.7 | 0.0 | 129.5 | 0.0 | 3,123.2 | 0.0 |
| 66 | 18.9 | 131.6 | 0.0 | 202.5 | 0.0 | 300.2 | 0.0 | 337.8 | 0.0 | 317.9 | 0.0 | 293.8 | 0.0 | 287.9 | 0.0 | 275.4 | 0.0 | 251.7 | 0.0 | 229.7 | 0.0 | 179.0 | 0.0 | 112.3 | 0.0 | 2,919.8 | 0.0 |
| 67 | 19.4 | 114.4 | 0.0 | 186.4 | 0.0 | 283.0 | 0.0 | 321.2 | 0.0 | 300.7 | 0.0 | 277.1 | 0.0 | 270.7 | 0.0 | 258.1 | 0.0 | 235.0 | 0.0 | 212.4 | 0.0 | 162.3 | 0.0 | 95.1 | 0.0 | 2,716.5 | 0.0 |
| 68 | 20.0 | 97.2 | 0.0 | 170.3 | 0.0 | 265.8 | 0.0 | 304.5 | 0.0 | 283.5 | 0.0 | 260.5 | 0.0 | 253.4 | 0.0 | 240.9 | 0.0 | 218.3 | 0.0 | 195.2 | 0.0 | 145.7 | 0.0 | 77.9 | 0.0 | 2,513.2 | 0.0 |

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| HEATING & COOLING DEGREE DAYS BASE RANGE 35 - 100 °F (1.7 - 37.8 °C) 1981 - 1998 (2524 - 2541) | | | | | | | | | | | | | | Station : KHON KAEN | | | | | | | | | | | | | |
|--|------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------------------|---------|---------|---------|-----------|---------|---------|---------|----------|---------|----------|---------|---------|----------|
| MONTH | | JANUARY | | FEBRUARY | | MARCH | | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | | OCTOBER | | NOVEMBER | | DECEMBER | | ANNUAL | |
| Degree | | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating |
| °F | °C | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 69 | 20.6 | 79.9 | 0.0 | 154.2 | 0.0 | 248.6 | 0.0 | 287.8 | 0.0 | 266.3 | 0.0 | 243.8 | 0.0 | 236.2 | 0.0 | 223.7 | 0.0 | 201.7 | 0.0 | 178.0 | 0.0 | 129.0 | 0.0 | 60.7 | 0.0 | 2,309.8 | 0.0 |
| 70 | 21.1 | 62.7 | 0.0 | 138.1 | 0.0 | 231.4 | 0.0 | 271.2 | 0.0 | 249.1 | 0.0 | 227.1 | 0.0 | 219.0 | 0.0 | 206.5 | 0.0 | 185.0 | 0.0 | 160.8 | 0.0 | 112.3 | 0.0 | 43.4 | 0.0 | 2,106.5 | 0.0 |
| 71 | 21.7 | 45.5 | 0.0 | 122.0 | 0.0 | 214.1 | 0.0 | 254.5 | 0.0 | 231.8 | 0.0 | 210.5 | 0.0 | 201.8 | 0.0 | 189.2 | 0.0 | 168.3 | 0.0 | 143.6 | 0.0 | 95.7 | 0.0 | 26.6 | -0.4 | 1,903.5 | -0.4 |
| 72 | 22.2 | 28.3 | 0.0 | 105.9 | 0.0 | 196.9 | 0.0 | 237.8 | 0.0 | 214.6 | 0.0 | 193.8 | 0.0 | 184.5 | 0.0 | 172.0 | 0.0 | 151.7 | 0.0 | 126.3 | 0.0 | 79.0 | 0.0 | 11.7 | -2.7 | 1,702.5 | -2.7 |
| 73 | 22.8 | 11.6 | -0.5 | 89.7 | 0.0 | 179.7 | 0.0 | 221.2 | 0.0 | 197.4 | 0.0 | 177.1 | 0.0 | 167.3 | 0.0 | 154.8 | 0.0 | 135.0 | 0.0 | 109.1 | 0.0 | 62.3 | 0.0 | 2.2 | -10.5 | 1,507.5 | -11.0 |
| 74 | 23.3 | 1.6 | -7.8 | 73.6 | 0.0 | 162.5 | 0.0 | 204.5 | 0.0 | 180.2 | 0.0 | 160.5 | 0.0 | 150.1 | 0.0 | 137.6 | 0.0 | 118.3 | 0.0 | 91.9 | 0.0 | 45.7 | 0.0 | 0.1 | -25.5 | 1,326.5 | -33.3 |
| 75 | 23.9 | 0.0 | -23.4 | 57.5 | 0.0 | 145.2 | 0.0 | 187.8 | 0.0 | 162.9 | 0.0 | 143.8 | 0.0 | 132.9 | 0.0 | 120.4 | 0.0 | 101.7 | 0.0 | 74.7 | 0.0 | 29.1 | -0.2 | 0.0 | -42.7 | 1,156.1 | -66.3 |
| 76 | 24.4 | 0.0 | -40.8 | 42.5 | -1.1 | 128.0 | 0.0 | 171.2 | 0.0 | 145.7 | 0.0 | 127.1 | 0.0 | 115.7 | 0.0 | 103.1 | 0.0 | 85.0 | 0.0 | 57.4 | 0.0 | 14.0 | -1.7 | 0.0 | -59.9 | 989.8 | -103.3 |
| 77 | 25.0 | 0.0 | -57.8 | 29.7 | -4.4 | 110.8 | 0.0 | 154.5 | 0.0 | 128.5 | 0.0 | 110.5 | 0.0 | 98.4 | 0.0 | 85.9 | 0.0 | 68.3 | 0.0 | 40.4 | -0.1 | 4.1 | -8.4 | 0.0 | -77.1 | 831.1 | -147.9 |
| 78 | 25.6 | 0.0 | -75.1 | 19.7 | -10.5 | 93.6 | 0.0 | 137.8 | 0.0 | 111.3 | 0.0 | 93.8 | 0.0 | 81.2 | 0.0 | 68.7 | 0.0 | 51.7 | 0.0 | 24.3 | -1.3 | 0.1 | -21.2 | 0.0 | -94.3 | 682.2 | -202.4 |
| 79 | 26.1 | 0.0 | -92.3 | 10.2 | -17.2 | 77.4 | -1.0 | 121.2 | 0.0 | 94.1 | 0.0 | 77.1 | 0.0 | 64.0 | 0.0 | 51.5 | 0.0 | 35.0 | 0.0 | 11.6 | -5.8 | 0.0 | -37.7 | 0.0 | -111.6 | 542.0 | -265.5 |
| 80 | 26.7 | 0.0 | -109.5 | 2.4 | -25.4 | 63.1 | -4.0 | 104.5 | 0.0 | 76.8 | 0.0 | 60.5 | 0.0 | 46.8 | 0.0 | 34.2 | 0.0 | 18.3 | 0.0 | 1.8 | -13.3 | 0.0 | -54.3 | 0.0 | -128.8 | 408.4 | -335.3 |
| 81 | 27.2 | 0.0 | -126.7 | 0.0 | -39.1 | 49.7 | -7.8 | 87.8 | 0.0 | 59.6 | 0.0 | 43.8 | 0.0 | 29.5 | 0.0 | 17.0 | 0.0 | 3.7 | -2.1 | 0.0 | -28.7 | 0.0 | -71.0 | 0.0 | -146.0 | 291.2 | -421.4 |
| 82 | 27.8 | 0.0 | -144.0 | 0.0 | -55.3 | 36.9 | -12.2 | 71.2 | 0.0 | 42.4 | 0.0 | 27.1 | 0.0 | 12.5 | -0.2 | 3.8 | -4.0 | 0.0 | -15.0 | 0.0 | -45.9 | 0.0 | -87.7 | 0.0 | -163.2 | 193.9 | -527.4 |
| 83 | 28.3 | 0.0 | -161.2 | 0.0 | -71.4 | 24.5 | -17.1 | 54.5 | 0.0 | 25.4 | -0.2 | 11.1 | -0.7 | 1.4 | -6.3 | 0.2 | -17.6 | 0.0 | -31.7 | 0.0 | -63.1 | 0.0 | -104.3 | 0.0 | -180.5 | 117.2 | -654.0 |
| 84 | 28.9 | 0.0 | -178.4 | 0.0 | -87.5 | 12.9 | -22.6 | 37.8 | 0.0 | 11.8 | -3.8 | 1.6 | -7.8 | 0.0 | -22.1 | 0.0 | -34.6 | 0.0 | -48.3 | 0.0 | -80.3 | 0.0 | -121.0 | 0.0 | -197.7 | 64.1 | -804.3 |
| 85 | 29.4 | 0.0 | -195.6 | 0.0 | -103.6 | 3.2 | -30.2 | 21.2 | 0.0 | 3.5 | -12.8 | 0.0 | -22.9 | 0.0 | -39.3 | 0.0 | -51.9 | 0.0 | -65.0 | 0.0 | -97.6 | 0.0 | -137.7 | 0.0 | -214.9 | 27.9 | -971.4 |
| 86 | 30.0 | 0.0 | -212.8 | 0.0 | -119.7 | 0.0 | -44.2 | 7.2 | -2.7 | 0.6 | -27.1 | 0.0 | -39.5 | 0.0 | -56.6 | 0.0 | -69.1 | 0.0 | -81.7 | 0.0 | -114.8 | 0.0 | -154.3 | 0.0 | -232.1 | 7.8 | -1,154.6 |
| 87 | 30.6 | 0.0 | -230.1 | 0.0 | -135.8 | 0.0 | -61.4 | 1.6 | -13.8 | 0.0 | -43.7 | 0.0 | -56.2 | 0.0 | -73.8 | 0.0 | -86.3 | 0.0 | -98.3 | 0.0 | -132.0 | 0.0 | -171.0 | 0.0 | -249.3 | 1.6 | -1,351.8 |
| 88 | 31.1 | 0.0 | -247.3 | 0.0 | -151.9 | 0.0 | -78.6 | 0.2 | -29.0 | 0.0 | -60.9 | 0.0 | -72.9 | 0.0 | -91.0 | 0.0 | -103.5 | 0.0 | -115.0 | 0.0 | -149.2 | 0.0 | -187.7 | 0.0 | -266.6 | 0.2 | -1,553.7 |
| 89 | 31.7 | 0.0 | -264.5 | 0.0 | -168.0 | 0.0 | -95.9 | 0.0 | -45.5 | 0.0 | -78.2 | 0.0 | -89.5 | 0.0 | -108.2 | 0.0 | -120.8 | 0.0 | -131.7 | 0.0 | -166.4 | 0.0 | -204.3 | 0.0 | -283.8 | 0.0 | -1,756.8 |
| 90 | 32.2 | 0.0 | -281.7 | 0.0 | -184.1 | 0.0 | -113.1 | 0.0 | -62.2 | 0.0 | -95.4 | 0.0 | -106.2 | 0.0 | -125.5 | 0.0 | -138.0 | 0.0 | -148.3 | 0.0 | -183.7 | 0.0 | -221.0 | 0.0 | -301.0 | 0.0 | -1,960.2 |
| 91 | 32.8 | 0.0 | -299.0 | 0.0 | -200.3 | 0.0 | -130.3 | 0.0 | -78.8 | 0.0 | -112.6 | 0.0 | -122.9 | 0.0 | -142.7 | 0.0 | -155.2 | 0.0 | -165.0 | 0.0 | -200.9 | 0.0 | -237.7 | 0.0 | -318.2 | 0.0 | -2,163.5 |
| 92 | 33.3 | 0.0 | -316.2 | 0.0 | -216.4 | 0.0 | -147.5 | 0.0 | -95.5 | 0.0 | -129.8 | 0.0 | -139.5 | 0.0 | -159.9 | 0.0 | -172.4 | 0.0 | -181.7 | 0.0 | -218.1 | 0.0 | -254.3 | 0.0 | -335.5 | 0.0 | -2,366.8 |
| 93 | 33.9 | 0.0 | -333.4 | 0.0 | -232.5 | 0.0 | -164.8 | 0.0 | -112.2 | 0.0 | -147.1 | 0.0 | -156.2 | 0.0 | -177.1 | 0.0 | -189.6 | 0.0 | -198.3 | 0.0 | -235.3 | 0.0 | -271.0 | 0.0 | -352.7 | 0.0 | -2,570.2 |
| 94 | 34.4 | 0.0 | -350.6 | 0.0 | -248.6 | 0.0 | -182.0 | 0.0 | -128.8 | 0.0 | -164.3 | 0.0 | -172.9 | 0.0 | -194.3 | 0.0 | -206.9 | 0.0 | -215.0 | 0.0 | -252.6 | 0.0 | -287.7 | 0.0 | -369.9 | 0.0 | -2,773.5 |
| 95 | 35.0 | 0.0 | -367.8 | 0.0 | -264.7 | 0.0 | -199.2 | 0.0 | -145.5 | 0.0 | -181.5 | 0.0 | -189.5 | 0.0 | -211.6 | 0.0 | -224.1 | 0.0 | -231.7 | 0.0 | -269.8 | 0.0 | -304.3 | 0.0 | -387.1 | 0.0 | -2,976.8 |
| 96 | 35.6 | 0.0 | -385.1 | 0.0 | -280.8 | 0.0 | -216.4 | 0.0 | -162.2 | 0.0 | -198.7 | 0.0 | -206.2 | 0.0 | -228.8 | 0.0 | -241.3 | 0.0 | -248.3 | 0.0 | -287.0 | 0.0 | -321.0 | 0.0 | -404.3 | 0.0 | -3,180.2 |
| 97 | 36.1 | 0.0 | -402.3 | 0.0 | -296.9 | 0.0 | -233.6 | 0.0 | -178.8 | 0.0 | -215.9 | 0.0 | -222.9 | 0.0 | -246.0 | 0.0 | -258.5 | 0.0 | -265.0 | 0.0 | -304.2 | 0.0 | -337.7 | 0.0 | -421.6 | 0.0 | -3,383.5 |
| 98 | 36.7 | 0.0 | -419.5 | 0.0 | -313.0 | 0.0 | -250.9 | 0.0 | -195.5 | 0.0 | -233.2 | 0.0 | -239.5 | 0.0 | -263.2 | 0.0 | -275.8 | 0.0 | -281.7 | 0.0 | -321.4 | 0.0 | -354.3 | 0.0 | -438.8 | 0.0 | -3,586.8 |
| 99 | 37.2 | 0.0 | -436.7 | 0.0 | -329.1 | 0.0 | -268.1 | 0.0 | -212.2 | 0.0 | -250.4 | 0.0 | -256.2 | 0.0 | -280.5 | 0.0 | -293.0 | 0.0 | -298.3 | 0.0 | -338.7 | 0.0 | -371.0 | 0.0 | -456.0 | 0.0 | -3,790.2 |
| 100 | 37.8 | 0.0 | -454.0 | 0.0 | -345.3 | 0.0 | -285.3 | 0.0 | -228.8 | 0.0 | -267.6 | 0.0 | -272.9 | 0.0 | -297.7 | 0.0 | -310.2 | 0.0 | -315.0 | 0.0 | -355.9 | 0.0 | -387.7 | 0.0 | -473.2 | 0.0 | -3,993.5 |

กรมอุตุนิยมวิทยา
ประเทศไทย

แผนภูมิปริมาณองศาวัน การทำความร้อนและการทำความเย็น (heating and cooling degree days)

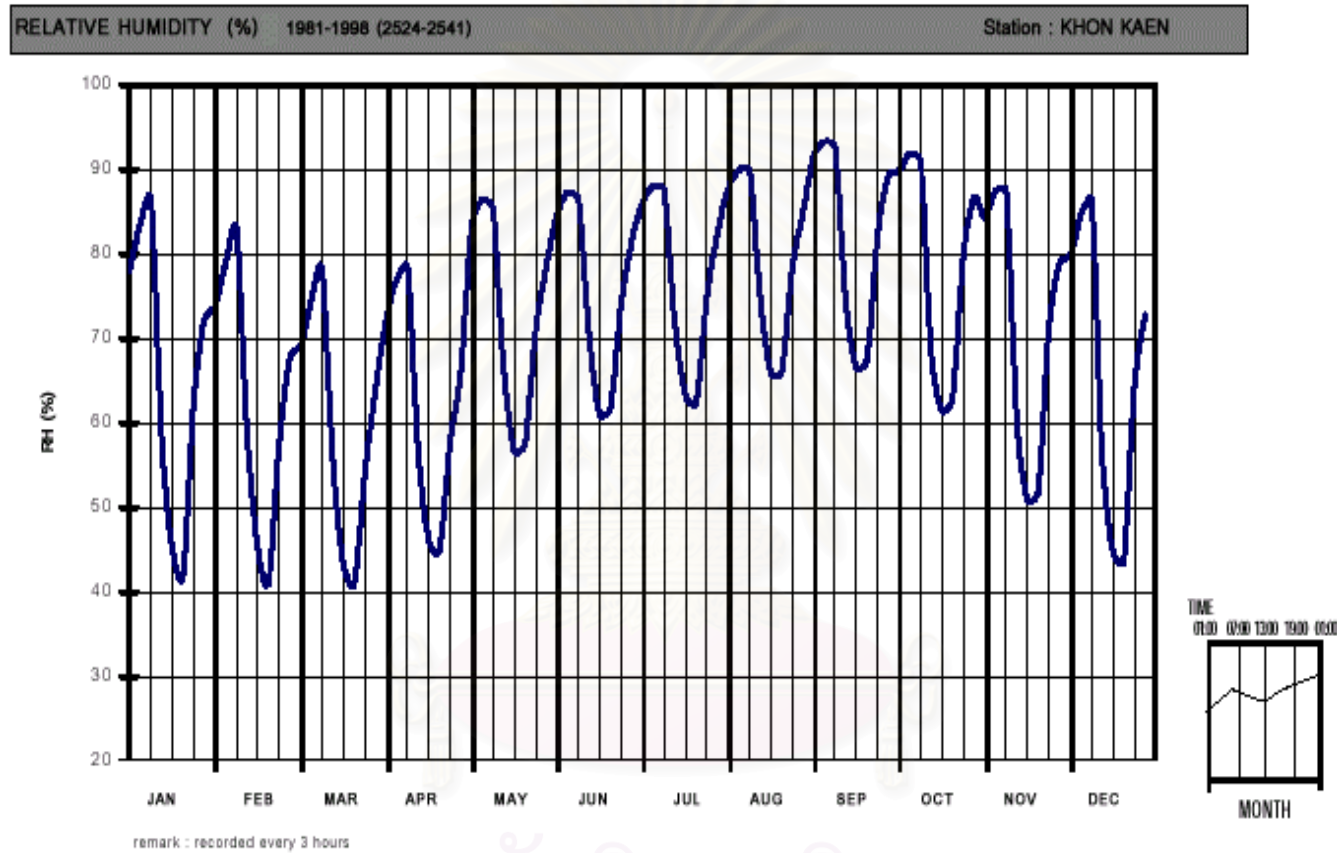


สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

ตารางแสดงผลข้อมูลความชื้นสัมพัทธ์ (relative humidity)

| RELATIVE HUMIDITY (%) 1981 - 1998 (2524 - 2541) | | | | | | | | | | | | | | Station : KHON KAEN | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---------|------|------|----------|------|------|-------|------|------|-------|------|------|------|---------------------|------|------|------|------|------|------|------|--------|------|------|-----------|------|------|---------|------|------|----------|------|------|----------|------|------|--------|------|------|
| MONTH | JANUARY | | | FEBRUARY | | | MARCH | | | APRIL | | | MAY | | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | | OCTOBER | | | NOVEMBER | | | DECEMBER | | | ANNUAL | | |
| DAY | min | mean | max | min | mean | max | min | mean | max | min | mean | max | min | mean | max | min | mean | max | min | mean | max | min | mean | max | min | mean | max | min | mean | max | min | mean | max | min | mean | max | min | mean | max |
| 1 | 42.4 | 67.0 | 87.7 | 38.1 | 62.4 | 83.1 | 44.8 | 63.8 | 81.9 | 40.7 | 60.6 | 78.8 | 49.4 | 68.7 | 84.7 | 59.8 | 75.1 | 87.0 | 59.7 | 75.4 | 87.7 | 60.7 | 76.0 | 88.2 | 66.8 | 81.5 | 92.5 | 61.7 | 80.1 | 93.2 | 54.6 | 73.8 | 89.2 | 47.6 | 68.1 | 84.9 | 52.2 | 71.0 | 86.6 |
| 2 | 41.7 | 66.7 | 88.0 | 40.3 | 62.8 | 83.0 | 43.1 | 61.5 | 79.8 | 40.3 | 59.0 | 77.9 | 47.7 | 66.8 | 82.4 | 58.7 | 75.7 | 88.9 | 58.8 | 74.7 | 85.6 | 62.9 | 77.1 | 88.7 | 67.6 | 82.5 | 92.9 | 63.4 | 79.8 | 92.1 | 55.8 | 74.6 | 87.9 | 46.2 | 67.9 | 85.8 | 52.2 | 70.8 | 86.1 |
| 3 | 42.6 | 68.0 | 88.5 | 41.0 | 64.7 | 84.9 | 45.8 | 63.1 | 78.6 | 42.0 | 59.5 | 77.1 | 49.1 | 67.5 | 81.0 | 58.2 | 75.7 | 88.4 | 59.6 | 76.4 | 87.8 | 58.9 | 76.7 | 88.7 | 69.3 | 83.0 | 93.1 | 63.9 | 80.5 | 91.3 | 56.9 | 75.5 | 88.5 | 48.6 | 69.3 | 86.6 | 53.0 | 71.7 | 86.2 |
| 4 | 43.9 | 68.6 | 88.3 | 43.8 | 65.1 | 82.9 | 42.7 | 63.5 | 83.1 | 46.5 | 61.9 | 77.2 | 51.5 | 69.7 | 83.5 | 60.3 | 76.0 | 89.7 | 63.4 | 78.7 | 89.6 | 67.7 | 80.2 | 88.3 | 65.8 | 81.6 | 92.3 | 65.2 | 81.8 | 92.8 | 53.7 | 73.9 | 89.7 | 48.5 | 69.2 | 85.9 | 54.4 | 72.5 | 86.9 |
| 5 | 41.6 | 66.4 | 86.5 | 45.2 | 68.1 | 87.3 | 48.1 | 64.2 | 79.4 | 42.8 | 59.9 | 76.9 | 53.5 | 69.1 | 83.8 | 62.1 | 78.0 | 87.3 | 60.7 | 76.9 | 89.3 | 65.2 | 80.3 | 91.8 | 66.3 | 81.6 | 92.2 | 70.7 | 84.1 | 94.5 | 51.8 | 73.8 | 89.9 | 46.3 | 68.6 | 87.0 | 54.5 | 72.6 | 87.2 |
| 6 | 43.8 | 68.2 | 89.8 | 43.7 | 66.8 | 86.2 | 43.0 | 63.0 | 81.3 | 40.3 | 58.4 | 75.4 | 49.9 | 67.7 | 82.2 | 60.6 | 78.4 | 90.7 | 62.7 | 78.0 | 88.0 | 65.5 | 79.1 | 89.7 | 64.2 | 82.1 | 92.3 | 64.2 | 80.9 | 92.4 | 53.7 | 74.3 | 90.9 | 45.3 | 68.0 | 86.7 | 53.1 | 72.1 | 87.1 |
| 7 | 42.6 | 66.7 | 88.1 | 39.8 | 64.7 | 87.5 | 41.2 | 61.1 | 80.1 | 40.1 | 58.6 | 75.9 | 50.3 | 67.3 | 81.9 | 62.8 | 77.9 | 89.0 | 59.1 | 76.1 | 88.0 | 63.9 | 78.8 | 88.2 | 70.3 | 85.8 | 93.6 | 61.1 | 79.7 | 93.5 | 52.4 | 73.4 | 90.2 | 43.2 | 66.9 | 87.4 | 52.2 | 71.4 | 86.9 |
| 8 | 41.3 | 66.2 | 86.9 | 37.8 | 62.9 | 84.7 | 42.3 | 61.2 | 79.4 | 45.7 | 61.7 | 77.8 | 49.8 | 69.5 | 84.2 | 61.9 | 77.4 | 88.1 | 59.4 | 75.8 | 90.7 | 64.3 | 79.2 | 89.6 | 70.9 | 84.7 | 93.9 | 64.8 | 80.5 | 91.2 | 50.8 | 71.4 | 87.5 | 42.7 | 66.3 | 86.9 | 52.7 | 71.4 | 86.7 |
| 9 | 42.1 | 65.9 | 86.7 | 40.5 | 63.9 | 83.8 | 35.7 | 57.9 | 77.5 | 42.0 | 61.2 | 78.9 | 52.9 | 71.1 | 83.2 | 61.7 | 76.6 | 87.6 | 60.5 | 76.2 | 87.7 | 63.4 | 78.8 | 91.2 | 71.8 | 85.6 | 94.5 | 64.4 | 81.2 | 92.5 | 53.9 | 72.7 | 88.3 | 42.5 | 65.3 | 84.2 | 52.6 | 71.4 | 86.3 |
| 10 | 39.6 | 65.5 | 86.9 | 40.4 | 64.6 | 82.8 | 36.8 | 58.4 | 78.1 | 40.4 | 59.7 | 76.9 | 54.3 | 71.1 | 84.8 | 57.4 | 75.1 | 87.4 | 60.9 | 77.4 | 88.8 | 66.4 | 80.4 | 90.8 | 68.2 | 83.8 | 94.8 | 64.3 | 80.1 | 92.1 | 51.1 | 71.0 | 86.7 | 44.1 | 66.7 | 86.5 | 52.0 | 71.2 | 86.4 |
| 11 | 39.3 | 64.9 | 85.8 | 43.8 | 65.3 | 83.7 | 38.2 | 59.1 | 78.7 | 40.7 | 58.8 | 75.1 | 56.0 | 71.9 | 86.6 | 63.4 | 77.0 | 86.7 | 64.2 | 79.2 | 89.8 | 65.6 | 79.2 | 89.4 | 69.5 | 84.1 | 95.7 | 64.8 | 80.5 | 91.6 | 49.7 | 71.4 | 87.5 | 44.6 | 66.4 | 84.8 | 53.3 | 71.5 | 86.3 |
| 12 | 41.7 | 66.0 | 87.3 | 43.4 | 65.8 | 85.1 | 40.7 | 60.0 | 79.2 | 42.6 | 58.8 | 75.1 | 56.7 | 72.7 | 85.6 | 60.4 | 75.9 | 87.4 | 61.7 | 77.1 | 88.2 | 61.6 | 78.7 | 88.7 | 64.6 | 81.7 | 92.9 | 64.6 | 81.1 | 92.4 | 51.0 | 71.9 | 86.8 | 42.9 | 66.3 | 86.7 | 52.7 | 71.3 | 86.3 |
| 13 | 41.6 | 66.0 | 86.4 | 40.6 | 64.5 | 85.9 | 41.4 | 60.0 | 79.2 | 45.3 | 62.0 | 78.6 | 58.6 | 74.1 | 87.2 | 60.8 | 75.5 | 87.8 | 62.7 | 76.7 | 88.3 | 62.8 | 77.5 | 88.3 | 66.8 | 82.6 | 94.7 | 62.9 | 81.1 | 92.9 | 52.1 | 73.2 | 89.3 | 44.6 | 67.5 | 87.8 | 53.4 | 71.7 | 87.2 |
| 14 | 42.1 | 66.8 | 88.2 | 39.3 | 63.4 | 83.7 | 38.7 | 58.0 | 78.7 | 42.3 | 61.7 | 79.4 | 61.7 | 77.7 | 90.1 | 58.6 | 75.7 | 88.3 | 59.2 | 75.0 | 85.7 | 64.1 | 78.7 | 89.7 | 66.2 | 82.9 | 93.6 | 63.1 | 80.8 | 93.9 | 52.2 | 72.8 | 88.6 | 45.2 | 67.2 | 87.4 | 52.7 | 71.7 | 87.3 |
| 15 | 40.7 | 65.7 | 89.3 | 41.8 | 61.6 | 81.0 | 36.7 | 55.9 | 76.4 | 46.3 | 62.9 | 78.1 | 58.5 | 76.2 | 89.4 | 59.4 | 74.5 | 87.6 | 62.4 | 77.3 | 88.0 | 66.9 | 80.2 | 89.1 | 66.8 | 82.7 | 94.7 | 63.3 | 80.9 | 92.2 | 50.9 | 72.2 | 87.4 | 45.6 | 67.5 | 85.9 | 53.3 | 71.5 | 86.6 |
| 16 | 41.5 | 65.3 | 85.4 | 40.1 | 61.6 | 80.6 | 33.3 | 55.3 | 78.0 | 44.6 | 62.2 | 78.6 | 59.9 | 75.5 | 88.3 | 57.4 | 73.8 | 87.6 | 63.0 | 78.9 | 91.6 | 65.7 | 79.4 | 90.8 | 67.1 | 82.6 | 93.8 | 66.7 | 81.4 | 93.1 | 51.8 | 72.3 | 88.3 | 44.2 | 67.1 | 87.8 | 53.0 | 71.3 | 87.0 |
| 17 | 40.7 | 65.3 | 88.3 | 39.0 | 61.1 | 81.1 | 36.3 | 55.0 | 74.9 | 45.7 | 63.0 | 80.1 | 61.2 | 77.0 | 89.1 | 59.6 | 74.7 | 85.0 | 60.3 | 76.8 | 89.3 | 62.7 | 78.4 | 89.3 | 68.1 | 82.6 | 93.7 | 65.5 | 81.2 | 92.6 | 52.2 | 72.1 | 88.3 | 42.6 | 66.3 | 86.7 | 52.8 | 71.1 | 86.5 |
| 18 | 38.9 | 65.0 | 87.3 | 39.1 | 60.5 | 80.4 | 35.7 | 55.6 | 74.9 | 43.6 | 61.5 | 78.3 | 58.8 | 76.3 | 88.7 | 61.5 | 75.6 | 86.6 | 65.1 | 78.0 | 87.2 | 67.6 | 81.0 | 91.1 | 64.8 | 82.8 | 94.8 | 62.5 | 80.0 | 92.6 | 50.4 | 71.5 | 88.3 | 43.7 | 66.0 | 84.9 | 52.6 | 71.2 | 86.3 |
| 19 | 42.8 | 66.3 | 87.6 | 37.6 | 59.3 | 79.1 | 38.7 | 56.1 | 74.6 | 41.3 | 59.2 | 76.8 | 56.1 | 75.4 | 89.6 | 60.5 | 75.9 | 86.3 | 62.7 | 77.8 | 88.9 | 64.6 | 80.5 | 92.3 | 66.7 | 82.2 | 93.1 | 61.4 | 79.9 | 91.4 | 48.9 | 71.0 | 89.0 | 43.1 | 66.3 | 87.6 | 52.0 | 70.8 | 86.4 |
| 20 | 42.5 | 66.6 | 87.2 | 38.4 | 59.9 | 80.9 | 36.0 | 55.6 | 74.8 | 46.8 | 64.2 | 79.6 | 55.4 | 74.7 | 89.5 | 59.7 | 76.5 | 89.6 | 60.6 | 76.3 | 87.9 | 69.7 | 81.2 | 91.7 | 69.4 | 83.2 | 93.1 | 61.0 | 78.9 | 92.1 | 48.9 | 70.8 | 88.3 | 42.1 | 65.9 | 88.3 | 52.6 | 71.2 | 86.9 |
| 21 | 40.2 | 65.1 | 85.7 | 36.7 | 59.1 | 80.1 | 40.7 | 56.5 | 72.9 | 48.0 | 64.6 | 78.9 | 53.1 | 71.2 | 84.8 | 58.7 | 73.4 | 86.1 | 60.3 | 75.8 | 87.3 | 61.8 | 78.7 | 89.9 | 62.8 | 80.5 | 93.1 | 56.1 | 76.6 | 91.8 | 49.6 | 71.1 | 89.4 | 40.9 | 64.3 | 84.7 | 50.7 | 69.7 | 85.4 |
| 22 | 42.2 | 65.5 | 85.4 | 39.2 | 59.4 | 79.6 | 37.5 | 56.3 | 73.8 | 46.7 | 64.8 | 79.9 | 56.6 | 72.3 | 85.6 | 59.4 | 74.5 | 84.6 | 61.6 | 75.9 | 87.0 | 63.2 | 78.1 | 89.1 | 61.2 | 80.9 | 92.8 | 57.9 | 77.6 | 92.9 | 48.4 | 70.2 | 88.0 | 40.1 | 64.5 | 84.5 | 51.2 | 70.0 | 85.3 |
| 23 | 40.7 | 64.3 | 83.2 | 39.8 | 61.9 | 82.4 | 40.9 | 59.4 | 77.8 | 41.4 | 63.0 | 79.2 | 53.9 | 71.3 | 85.3 | 58.5 | 74.8 | 84.3 | 65.4 | 79.0 | 89.3 | 73.2 | 83.0 | 89.2 | 66.0 | 82.2 | 92.6 | 58.6 | 77.2 | 91.3 | 48.1 | 69.6 | 87.9 | 39.2 | 64.0 | 85.6 | 52.2 | 70.8 | 85.7 |
| 24 | 42.4 | 65.4 | 83.9 | 40.6 | 61.6 | 80.6 | 40.3 | 60.0 | 79.3 | 47.8 | 64.7 | 79.1 | 55.0 | 73.5 | 85.9 | 60.9 | 74.5 | 86.6 | 64.7 | 78.3 | 89.5 | 67.4 | 83.1 | 92.7 | 64.1 | 81.4 | 94.2 | 56.1 | 76.5 | 90.8 | 45.8 | 68.5 | 87.0 | 39.7 | 64.1 | 84.1 | 52.1 | 71.0 | 86.1 |
| 25 | 43.8 | 65.6 | 83.3 | 44.2 | 64.9 | 82.7 | 41.1 | 60.0 | 77.5 | 46.9 | 66.0 | 81.4 | 59.2 | 75.6 | 89.4 | 58.1 | 75.8 | 86.5 | 60.3 | 74.9 | 87.9 | 68.6 | 82.9 | 93.1 | 62.4 | 80.4 | 92.0 | 57.1 | 76.1 | 90.6 | 45.2 | 68.4 | 86.9 | 41.1 | 65.7 | 85.9 | 52.3 | 71.4 | 86.4 |
| 26 | 47.8 | 66.6 | 83.8 | 46.4 | 66.2 | 83.7 | 40.7 | 60.4 | 79.4 | 49.3 | 66.7 | 82.1 | 61.4 | 77.7 | 88.5 | 59.6 | 76.1 | 85.8 | 60.7 | 75.5 | 87.2 | 66.3 | 81.2 | 92.3 | 64.1 | 80.3 | 93.4 | 55.9 | 76.0 | 91.4 | 46.7 | 68.3 | 86.2 | 40.0 | 65.3 | 87.7 | 53.2 | 71.7 | 86.8 |
| 27 | 43.8 | 65.7 | 83.4 | 45.1 | 65.7 | 84.0 | 47.1 | 63.0 | 78.3 | 50.3 | 67.7 | 82.2 | 62.8 | 78.8 | 90.6 | 64.4 | 77.2 | 87.9 | 60.3 | 77.1 | 87.4 | 64.5 | 80.2 | 91.8 | 62.3 | 80.3 | 92.9 | 54.0 | 75.0 | 90.2 | 48.8 | 69.0 | 84.7 | 40.7 | 64.4 | 85.3 | 53.7 | 72.0 | 86.6 |
| 28 | 43.2 | 65.3 | 84.0 | 45.1 | 64.8 | 84.2 | 43.9 | 63.3 | 79.8 | 48.6 | 66.2 | 80.4 | 62.2 | 77.7 | 90.6 | 62.7 | 75.7 | 86.7 | 62.9 | 78.6 | 88.1 | 62.9 | 78.0 | 89.2 | 60.4 | 79.4 | 92.7 | 54.4 | 74.5 | 89.9 | 48.2 | 69.1 | 86.3 | 43.8 | 66.4 | 87.0 | 53.2 | 71.6 | 86.6 |
| 29 | 40.6 | 65.8 | 87.9 | 41.0 | 63.5 | 81.0 | 46.0 | 63.8 | 78.0 | 49.7 | 66.6 | 81.9 | 60.4 | 76.4 | 87.9 | 61.3 | 77.6 | 88.1 | 64.7 | 77.9 | 87.7 | 66.8 | 79.9 | 89.5 | 61.7 | 79.8 | 92.4 | 57.1 | 75.5 | 90.3 | 48.3 | 68.6 | 85.2 | 44.2 | 67.9 | 88.8 | 53.5 | 71.9 | 86.6 |
| 30 | 38.9 | 64.0 | 86.4 | | | | 44.6 | 63.5 | 80.5 | 50.4 | 69.5 | 82.3 | 58.6 | 75.5 | 89.5 | 62.0 | 77.2 | 89.0 | 63.0 | 77.7 | 88.4 | 68.4 | 82.5 | 91.7 | 61.0 | 79.7 | 92.1 | 53.8 | 73.8 | 88.8 | 47.1 | 67.9 | 85.4 | 43.8 | 67.1 | 87.3 | 53.8 | 72.6 | 87.4 |
| 31 | 38.4 | 62.7 | 85.7 | | | | 42.9 | 61.7 | 78.8 | | | | 60.1 | 75.6 | 88.6 | | | | 64.9 | 78.2 | 88.2 | 66.3 | 81.4 | 91.5 | | | | 54.4 | 74.0 | 89.5 | | | | 42.9 | 67.6 | 89.1 | 52.9 | 71.6 | 87.3 |
| Average | 41.8 | 65.9 | 86.6 | 41.1 | 63.3 | 83.0 | 40.8 | 59.9 | 78.2 | 44.6 | 62.5 | 78.7 | 56.0 | 73.1 | 86.5 | 60.3 | 75.9 | 87.4 | 61.8 | 77.0 | 88.3 | 65.2 | 79.7 | 90.2 | 65.9 | 82.2 | 93.4 | 61.1 | 78.9 | 91.9 | 50.6 | 71.5 | 87.9 | 43.5 | 66.6 | 86.4 | 52.7 | 71.4 | 86.5 |
| Extremes | 18 | | 99 | 17 | | 98 | 16 | | 99 | 16 | | 100 | 24 | | 100 | 31 | | 100 | 24 | | 100 | 41 | | 100 | 43 | | 100 | 31 | | 100 | 28 | | 100 | 20 | | 98 | 16 | | |

แผนภูมิความชื้นสัมพัทธ์ (relative humidity)



สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

ตารางแสดงผลข้อมูลจำแนกความถี่ของลม ในแต่ละความเร็วและทิศทาง ที่เกิดลมรายเดือน (monthly frequency distribution of wind in each speed and direction)

MONTHLY FREQUENCY DISTRIBUTION OF WIND IN EACH SPEED AND DIRECTION 1981 - 1996 (2524 - 2541) Station : KHON KAEN

| January | | | | | | | | | | | February | | | | | | | | | | | March | | | | | | | | | | | | | | | | |
|---------|-------|---------|-----|------|-----|-----|------|------|-----|-----|----------|-------|-------|-------|---------|-----|------|-----|-----|------|------|-----------|-----|------|-------|-------|-------|---------|-----|------|-----|-----|------|------|-----|-----|------|-------|
| hrs | km/h | m/s | N | NE | E | SE | S | SW | W | NW | Calm | Total | hrs | km/h | m/s | N | NE | E | SE | S | SW | W | NW | Calm | Total | hrs | km/h | m/s | N | NE | E | SE | S | SW | W | NW | Calm | Total |
| 1-3 | 2-6 | 0.6-1.5 | 0.9 | 4.4 | 2.8 | 0.6 | 0.3 | 0.3 | 0.2 | 0.2 | | 77 | 1-3 | 2-6 | 0.6-1.5 | 0.9 | 3.8 | 2.7 | 1 | 0.8 | 1.2 | 0.2 | 0.2 | | 73.3 | 1-3 | 2-6 | 0.6-1.5 | 0.6 | 2.2 | 2.1 | 1.2 | 3.3 | 2.2 | 0.5 | 0.3 | | 67 |
| 4-16 | 7-30 | 1.6-8.2 | 1.4 | 6.3 | 3.7 | 0.4 | 0.3 | 0.4 | 0.2 | 0.3 | | 13 | 4-16 | 7-30 | 1.6-8.2 | 1.1 | 4.3 | 3.3 | 0.9 | 2 | 2.8 | 0.8 | 0.5 | | 15.5 | 4-16 | 7-30 | 1.6-8.2 | 1.1 | 3.4 | 3.5 | 1.2 | 5.8 | 4.7 | 0.7 | 0.6 | | 20.8 |
| 17-27 | 31-50 | 8.6-14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 17-27 | 31-50 | 8.6-14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 17-27 | 31-50 | 8.6-14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| >27 | >50 | >14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | >27 | >50 | >14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | >27 | >50 | >14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| Total | | | 2.3 | 10.7 | 6.5 | 1 | 0.6 | 0.7 | 0.4 | 0.5 | | 77 | Total | | | 2 | 8.1 | 6 | 1.9 | 2.8 | 4 | 0.8 | 0.7 | | 73.3 | Total | | | 1.7 | 5.6 | 5.6 | 2.4 | 8.9 | 8.9 | 1.2 | 0.9 | | 67 |
| April | | | | | | | | | | | May | | | | | | | | | | | June | | | | | | | | | | | | | | | | |
| 1-3 | 2-6 | 0.6-1.5 | 0.7 | 1.6 | 1.6 | 1.1 | 2.9 | 2.4 | 0.7 | 0.4 | | 11.4 | 1-3 | 2-6 | 0.6-1.5 | 0.4 | 1 | 1.5 | 1.6 | 3.8 | 2.3 | 0.9 | 0.6 | | 12.1 | 1-3 | 2-6 | 0.6-1.5 | 0.3 | 0.3 | 0.6 | 0.7 | 5.3 | 4.9 | 1.3 | 0.5 | | 13.9 |
| 4-16 | 7-30 | 1.6-8.2 | 1.4 | 2.2 | 1.9 | 1.8 | 5.5 | 5.8 | 1.4 | 0.7 | | 20.5 | 4-16 | 7-30 | 1.6-8.2 | 0.8 | 1.2 | 1.4 | 1.7 | 6.8 | 6.8 | 2.2 | 0.5 | | 20.8 | 4-16 | 7-30 | 1.6-8.2 | 0.3 | 0.1 | 0.7 | 0.9 | 10 | 15.8 | 2.4 | 0.7 | | 30.9 |
| 17-27 | 31-50 | 8.6-14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 17-27 | 31-50 | 8.6-14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 17-27 | 31-50 | 8.6-14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| >27 | >50 | >14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | >27 | >50 | >14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | >27 | >50 | >14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| Total | | | 2.1 | 3.8 | 3.5 | 2.9 | 8.4 | 8 | 2.1 | 1.1 | | 67.9 | Total | | | 1 | 2.2 | 2.9 | 3.3 | 10.4 | 8.9 | 3.1 | 1.1 | | 66.9 | Total | | | 0.6 | 0.4 | 1.3 | 1.6 | 15.3 | 20.7 | 3.7 | 1.2 | | 55.3 |
| July | | | | | | | | | | | August | | | | | | | | | | | September | | | | | | | | | | | | | | | | |
| 1-3 | 2-6 | 0.6-1.5 | 0.2 | 0.4 | 0.3 | 0.7 | 5.5 | 5.4 | 1.2 | 0.4 | | 14.1 | 1-3 | 2-6 | 0.6-1.5 | 0.3 | 0.2 | 0.5 | 0.4 | 4.2 | 5.7 | 1.4 | 0.6 | | 13.3 | 1-3 | 2-6 | 0.6-1.5 | 0.7 | 2.2 | 1.5 | 0.8 | 2 | 2.8 | 0.8 | 0.6 | | 11 |
| 4-16 | 7-30 | 1.6-8.2 | 0.1 | 0.1 | 0.4 | 0.6 | 8.9 | 18 | 2.5 | 0.8 | | 29.2 | 4-16 | 7-30 | 1.6-8.2 | 0.3 | 0.2 | 0.4 | 0.2 | 6.7 | 15.4 | 3 | 0.6 | | 26.8 | 4-16 | 7-30 | 1.6-8.2 | 0.8 | 2.5 | 1.9 | 0.5 | 1.8 | 3.1 | 1.2 | 0.7 | | 12.3 |
| 17-27 | 31-50 | 8.6-14 | 0 | 0 | 0 | 0 | 0.1 | 0 | 0 | 0 | | 0.1 | 17-27 | 31-50 | 8.6-14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 17-27 | 31-50 | 8.6-14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| >27 | >50 | >14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | >27 | >50 | >14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | >27 | >50 | >14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| Total | | | 0.3 | 0.5 | 0.7 | 1.3 | 14.5 | 21.4 | 3.7 | 1 | | 58.4 | Total | | | 0.6 | 0.4 | 0.9 | 0.6 | 10.9 | 21.1 | 4.4 | 1.2 | | 59.8 | Total | | | 1.5 | 4.7 | 3.4 | 1.1 | 3.8 | 5.7 | 2 | 1.3 | | 76.7 |
| October | | | | | | | | | | | November | | | | | | | | | | | December | | | | | | | | | | | | | | | | |
| 1-3 | 2-6 | 0.6-1.5 | 3 | 4.8 | 1.9 | 0.5 | 0.3 | 0.3 | 0.2 | 0.5 | | 11.5 | 1-3 | 2-6 | 0.6-1.5 | 3.2 | 4.8 | 1.3 | 0.3 | 0.1 | 0.3 | 0.1 | 0.5 | | 10.8 | 1-3 | 2-6 | 0.6-1.5 | 2.9 | 4.8 | 1.2 | 0.1 | 0.2 | 0.1 | 0.1 | 0.4 | | 9.8 |
| 4-16 | 7-30 | 1.6-8.2 | 2.8 | 6.6 | 2.5 | 0.5 | 0.2 | 0.8 | 0.4 | 0.8 | | 14.2 | 4-16 | 7-30 | 1.6-8.2 | 4.4 | 10.8 | 2.4 | 0.2 | 0.1 | 0.2 | 0 | 0.5 | | 18.6 | 4-16 | 7-30 | 1.6-8.2 | 4.6 | 10.4 | 2.4 | 0.2 | 0.1 | 0.1 | 0 | 0.7 | | 18.5 |
| 17-27 | 31-50 | 8.6-14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 17-27 | 31-50 | 8.6-14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 17-27 | 31-50 | 8.6-14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| >27 | >50 | >14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | >27 | >50 | >14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | >27 | >50 | >14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| Total | | | 5.8 | 11.4 | 4.4 | 1 | 0.5 | 0.9 | 0.8 | 1.1 | | 74 | Total | | | 7.8 | 15.6 | 3.7 | 0.5 | 0.2 | 0.5 | 0.1 | 1 | | 70.5 | Total | | | 7.5 | 15.2 | 3.6 | 0.3 | 0.3 | 0.2 | 0.1 | 1.1 | | 71.6 |

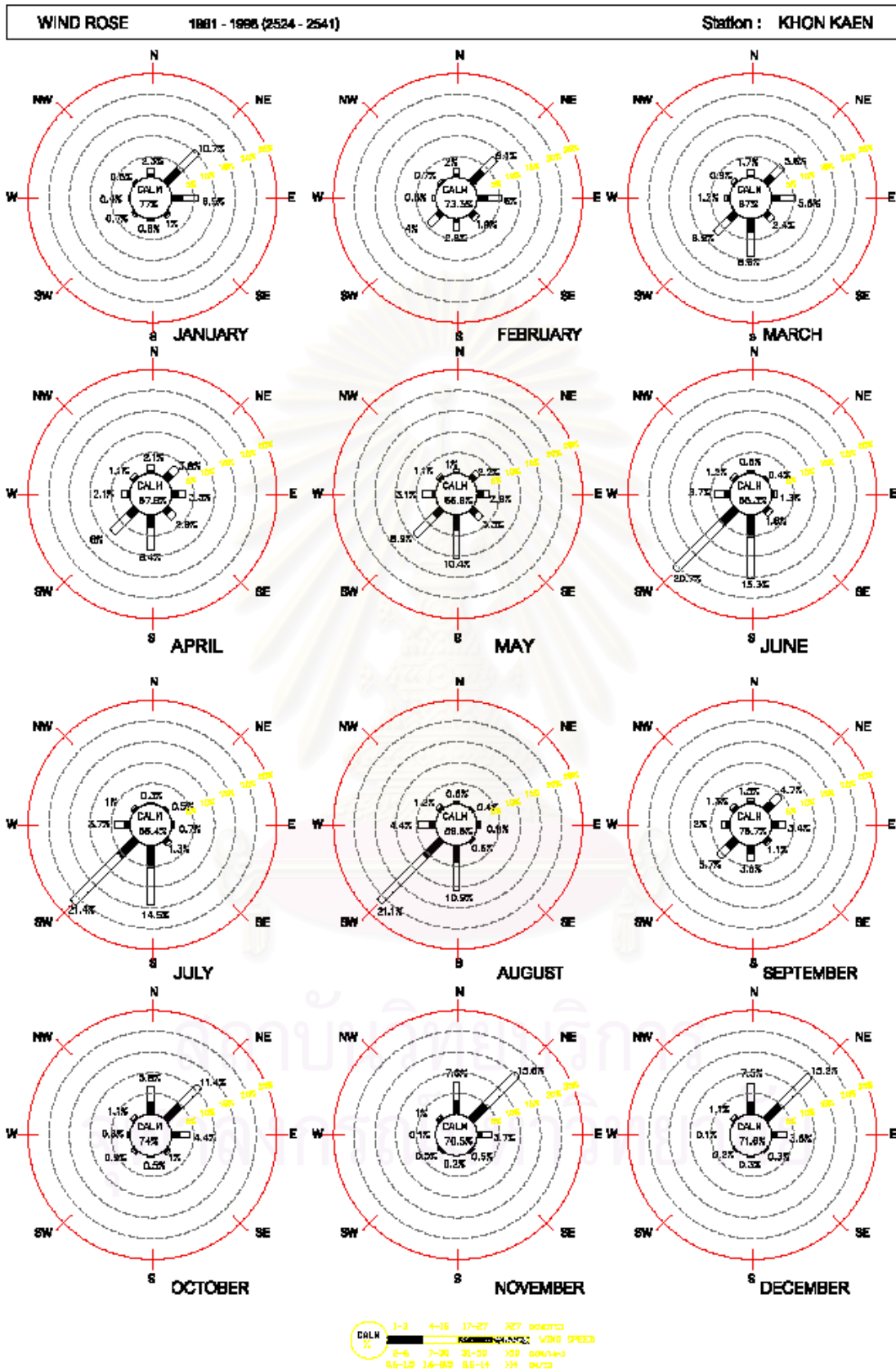
หมายเหตุ : hrs = HOURS

1 km = 1.852 km/h = 0.514 m/s

* This table shows the frequency of wind speed & direction in percent



แผนภูมิจำแนกความถี่ของลม ในแต่ละความเร็วและทิศทาง ที่เกิดลมรายเดือน (wind rose)



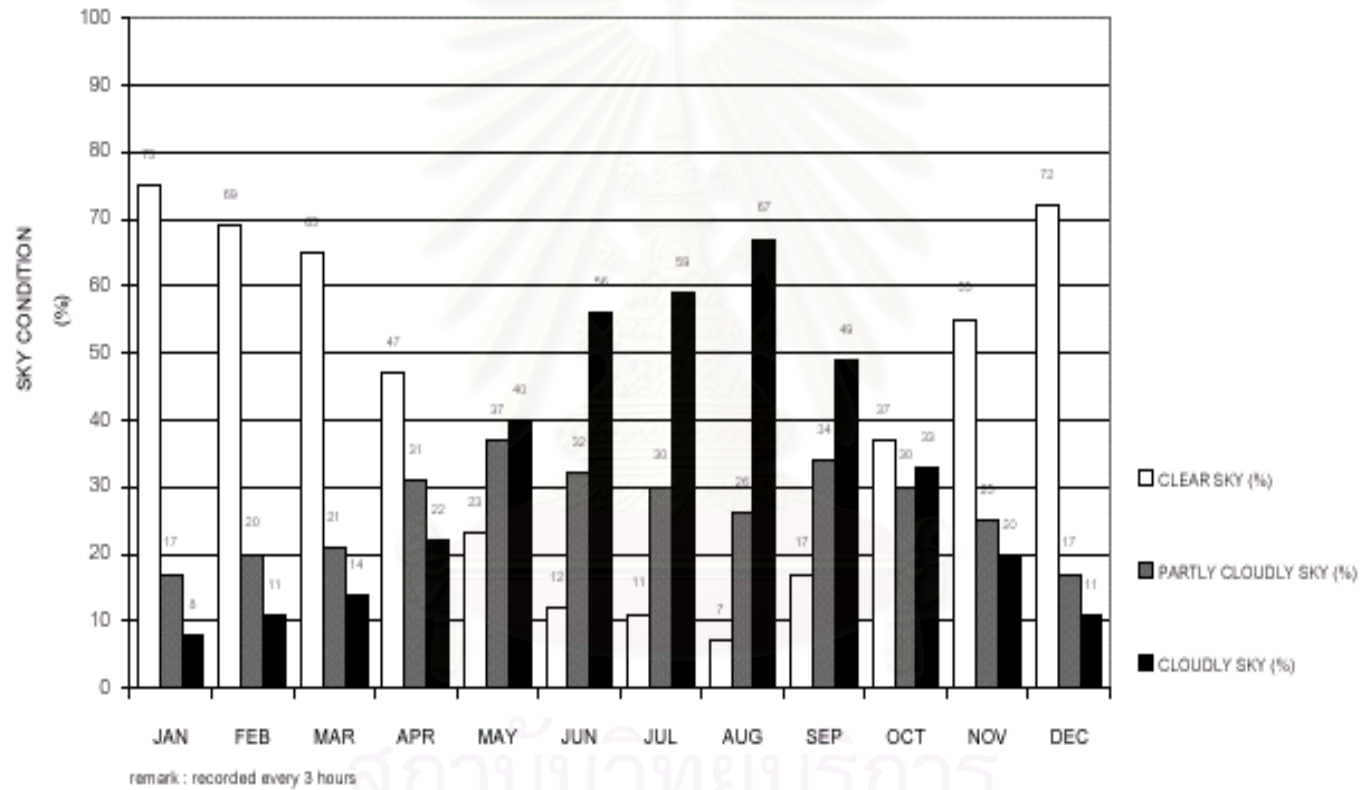
ตารางแสดงผลข้อมูลสภาพท้องฟ้าและสัดส่วนเปอร์เซ็นต์สภาพท้องฟ้า (sky cover and percentage of sky condition)

| SKY COVER (%) & SKY CONDITION 1981 - 1998 (2524 - 2541) | | | | | | | | | | | | | Station : KHON KAEN | |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------------|--|
| MONTH | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | ANNUAL | |
| DAY | Sky Condition | Sky Condition | Sky Condition | Sky Condition | Sky Condition | Sky Condition | Sky Condition | Sky Condition | Sky Condition | Sky Condition | Sky Condition | Sky Condition | Sky Condition | |
| | Cir Part Cld | Cir Part Cld | Cir Part Cld | Cir Part Cld | Cir Part Cld | Cir Part Cld | Cir Part Cld | Cir Part Cld | Cir Part Cld | Cir Part Cld | Cir Part Cld | Cir Part Cld | Cir Part Cld | |
| 1 | 79% 10% 11% | 76% 17% 7% | 61% 16% 23% | 63% 25% 12% | 35% 36% 29% | 17% 42% 41% | 10% 32% 57% | 3% 25% 72% | 7% 34% 59% | 20% 42% 38% | 57% 21% 23% | 60% 24% 16% | 41% 27% 32% | |
| 2 | 81% 15% 4% | 73% 21% 6% | 59% 22% 19% | 61% 31% 8% | 35% 41% 24% | 15% 45% 40% | 16% 38% 46% | 10% 23% 68% | 8% 30% 62% | 22% 31% 47% | 49% 27% 24% | 60% 25% 15% | 41% 29% 30% | |
| 3 | 65% 17% 18% | 70% 21% 9% | 63% 18% 20% | 63% 21% 17% | 42% 35% 23% | 13% 32% 56% | 15% 28% 57% | 7% 34% 59% | 11% 29% 60% | 17% 31% 52% | 54% 17% 29% | 65% 20% 15% | 40% 25% 35% | |
| 4 | 73% 18% 10% | 68% 13% 19% | 70% 19% 11% | 59% 15% 26% | 38% 29% 32% | 11% 30% 59% | 11% 24% 65% | 1% 29% 70% | 10% 32% 58% | 18% 32% 50% | 53% 21% 26% | 64% 18% 18% | 40% 23% 37% | |
| 5 | 72% 21% 7% | 70% 16% 14% | 57% 24% 19% | 49% 26% 25% | 30% 40% 29% | 10% 35% 55% | 12% 22% 66% | 7% 32% 62% | 6% 27% 67% | 13% 35% 52% | 67% 18% 15% | 69% 18% 13% | 38% 26% 35% | |
| 6 | 77% 17% 6% | 77% 10% 13% | 66% 16% 18% | 56% 31% 13% | 32% 43% 24% | 9% 36% 55% | 10% 40% 50% | 9% 21% 70% | 5% 26% 69% | 29% 35% 36% | 59% 30% 11% | 71% 21% 7% | 42% 27% 31% | |
| 7 | 70% 22% 8% | 74% 18% 8% | 60% 23% 18% | 57% 24% 19% | 31% 39% 30% | 7% 28% 65% | 14% 28% 58% | 10% 28% 63% | 5% 25% 70% | 38% 28% 34% | 65% 21% 15% | 71% 16% 13% | 42% 25% 33% | |
| 8 | 71% 22% 7% | 70% 23% 7% | 71% 15% 14% | 51% 24% 25% | 29% 44% 27% | 18% 31% 51% | 12% 43% 46% | 6% 26% 68% | 10% 26% 63% | 25% 36% 39% | 54% 24% 22% | 66% 21% 13% | 40% 28% 32% | |
| 9 | 69% 24% 7% | 64% 23% 13% | 74% 18% 7% | 50% 31% 19% | 29% 28% 43% | 13% 32% 56% | 12% 27% 61% | 8% 31% 61% | 6% 22% 72% | 28% 31% 41% | 51% 24% 25% | 66% 13% 21% | 39% 25% 35% | |
| 10 | 82% 13% 5% | 69% 18% 13% | 71% 20% 10% | 65% 24% 11% | 26% 32% 42% | 10% 33% 57% | 8% 29% 63% | 7% 32% 62% | 7% 40% 54% | 29% 37% 34% | 54% 26% 21% | 73% 13% 14% | 42% 26% 32% | |
| 11 | 79% 21% 1% | 68% 17% 15% | 77% 15% 8% | 68% 25% 7% | 26% 31% 43% | 5% 35% 60% | 8% 33% 59% | 4% 28% 68% | 12% 36% 52% | 26% 29% 44% | 57% 32% 12% | 64% 25% 11% | 41% 27% 32% | |
| 12 | 78% 15% 7% | 67% 26% 7% | 65% 23% 12% | 49% 27% 24% | 22% 38% 40% | 13% 32% 56% | 12% 38% 50% | 7% 27% 66% | 14% 40% 46% | 22% 40% 38% | 49% 31% 21% | 71% 21% 7% | 39% 30% 31% | |
| 13 | 85% 15% 1% | 68% 25% 7% | 66% 17% 17% | 49% 25% 26% | 21% 40% 40% | 15% 32% 52% | 5% 29% 65% | 11% 26% 63% | 21% 37% 42% | 33% 33% 34% | 48% 21% 31% | 74% 15% 10% | 41% 26% 32% | |
| 14 | 82% 15% 4% | 78% 13% 9% | 66% 24% 10% | 43% 29% 28% | 27% 28% 45% | 20% 40% 40% | 5% 26% 69% | 4% 24% 71% | 21% 33% 46% | 37% 33% 30% | 50% 28% 22% | 68% 19% 13% | 42% 26% 32% | |
| 15 | 86% 12% 2% | 65% 26% 9% | 72% 18% 10% | 46% 32% 22% | 27% 35% 38% | 25% 31% 44% | 7% 43% 50% | 4% 10% 85% | 16% 43% 41% | 43% 24% 33% | 40% 40% 20% | 64% 21% 15% | 41% 28% 31% | |
| 16 | 71% 21% 8% | 72% 21% 7% | 82% 11% 7% | 44% 38% 18% | 17% 40% 43% | 18% 32% 49% | 10% 39% 51% | 4% 26% 71% | 18% 37% 45% | 34% 21% 45% | 54% 31% 15% | 74% 17% 10% | 41% 28% 31% | |
| 17 | 79% 16% 4% | 68% 22% 10% | 81% 17% 2% | 45% 28% 27% | 13% 39% 48% | 18% 32% 51% | 24% 21% 55% | 7% 19% 74% | 18% 37% 45% | 32% 32% 36% | 51% 29% 21% | 76% 13% 11% | 43% 25% 32% | |
| 18 | 74% 24% 2% | 65% 21% 14% | 73% 17% 10% | 50% 26% 24% | 15% 38% 46% | 9% 31% 60% | 15% 29% 57% | 7% 22% 71% | 12% 37% 51% | 27% 37% 36% | 57% 24% 18% | 68% 15% 17% | 39% 27% 34% | |
| 19 | 85% 10% 4% | 71% 13% 17% | 65% 28% 7% | 43% 39% 18% | 15% 36% 49% | 11% 24% 65% | 13% 25% 62% | 4% 31% 65% | 13% 38% 49% | 35% 33% 32% | 76% 15% 10% | 76% 16% 7% | 42% 26% 32% | |
| 20 | 77% 21% 2% | 79% 14% 7% | 74% 20% 7% | 35% 42% 23% | 24% 33% 43% | 10% 42% 48% | 13% 32% 54% | 4% 32% 64% | 18% 31% 51% | 44% 30% 26% | 58% 30% 12% | 73% 21% 7% | 43% 29% 28% | |
| 21 | 72% 24% 4% | 77% 19% 4% | 63% 24% 13% | 35% 36% 29% | 24% 35% 41% | 19% 37% 44% | 10% 40% 51% | 6% 33% 61% | 27% 35% 38% | 54% 25% 21% | 61% 23% 16% | 79% 16% 5% | 44% 29% 27% | |
| 22 | 75% 12% 13% | 80% 15% 5% | 51% 27% 21% | 35% 37% 29% | 30% 43% 27% | 24% 23% 54% | 15% 32% 53% | 6% 27% 67% | 19% 40% 40% | 49% 23% 28% | 58% 28% 14% | 76% 18% 7% | 43% 27% 30% | |
| 23 | 76% 14% 10% | 79% 15% 5% | 54% 27% 19% | 38% 38% 24% | 31% 40% 29% | 11% 40% 49% | 11% 26% 63% | 3% 18% 79% | 19% 39% 42% | 44% 32% 24% | 63% 26% 12% | 84% 12% 4% | 43% 27% 30% | |
| 24 | 69% 18% 13% | 64% 25% 11% | 58% 27% 15% | 40% 36% 24% | 20% 38% 43% | 10% 27% 63% | 17% 27% 56% | 3% 18% 79% | 20% 46% 35% | 49% 31% 20% | 56% 24% 20% | 79% 13% 8% | 40% 27% 32% | |
| 25 | 65% 19% 15% | 56% 28% 16% | 58% 23% 19% | 29% 46% 25% | 18% 29% 54% | 6% 18% 76% | 15% 29% 55% | 2% 27% 71% | 26% 34% 40% | 49% 27% 24% | 54% 23% 24% | 83% 9% 8% | 38% 26% 36% | |
| 26 | 51% 24% 25% | 56% 29% 15% | 53% 27% 20% | 33% 38% 29% | 15% 31% 54% | 7% 24% 69% | 16% 35% 49% | 7% 25% 68% | 31% 42% 27% | 49% 29% 22% | 53% 24% 24% | 82% 13% 6% | 38% 28% 34% | |
| 27 | 68% 21% 10% | 64% 20% 16% | 57% 24% 19% | 35% 33% 32% | 5% 29% 66% | 5% 22% 73% | 10% 29% 62% | 14% 29% 57% | 38% 29% 34% | 58% 26% 16% | 42% 32% 26% | 74% 18% 8% | 39% 26% 35% | |
| 28 | 73% 15% 13% | 63% 23% 14% | 62% 15% 23% | 43% 37% 21% | 7% 35% 58% | 7% 33% 60% | 9% 25% 66% | 10% 28% 62% | 32% 40% 29% | 62% 21% 17% | 54% 23% 23% | 76% 14% 10% | 41% 26% 33% | |
| 29 | 82% 15% 2% | 56% 31% 13% | 62% 23% 15% | 37% 39% 24% | 7% 43% 50% | 7% 24% 69% | 4% 24% 73% | 8% 27% 65% | 27% 36% 37% | 52% 24% 24% | 56% 26% 18% | 75% 13% 13% | 39% 27% 34% | |
| 30 | 78% 15% 7% | | 62% 23% 15% | 28% 34% 38% | 10% 42% 48% | 8% 28% 64% | 5% 20% 75% | 2% 24% 74% | 24% 37% 39% | 59% 20% 21% | 60% 20% 21% | 69% 14% 17% | 37% 25% 38% | |
| 31 | 81% 14% 5% | | 51% 32% 16% | | 15% 41% 44% | | 5% 19% 76% | 5% 40% 54% | | 56% 21% 23% | | 74% 13% 13% | 41% 26% 33% | |
| AUG % | 75% 17% 8% | 69% 20% 11% | 65% 21% 14% | 47% 31% 22% | 23% 37% 40% | 12% 32% 56% | 11% 30% 59% | 6% 26% 67% | 17% 34% 49% | 37% 30% 33% | 55% 29% 20% | 72% 17% 11% | 41% 27% 33% | |
| condition | 2.1 | 2.6 | 3.0 | 4.3 | 6.2 | 7.3 | 7.5 | 8.1 | 6.8 | 5.2 | 3.7 | 2.4 | 4.9 | |

Remark : condition [SKY CONDITION] 0-3 = Clear Sky, 4-7 = Partly Cloudy Sky, 8-10 = Cloudy Sky, AVG % = AVERAGE PERCENTAGE OF SKY CONDITION

แผนภูมิสภาพท้องฟ้าและสัดส่วนเปอร์เซ็นต์สภาพท้องฟ้า (sky cover and percentage of sky condition)

SKY CONDITION (%) 1961 - 1998 (2524-2541) Station : KHON KAEN



สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

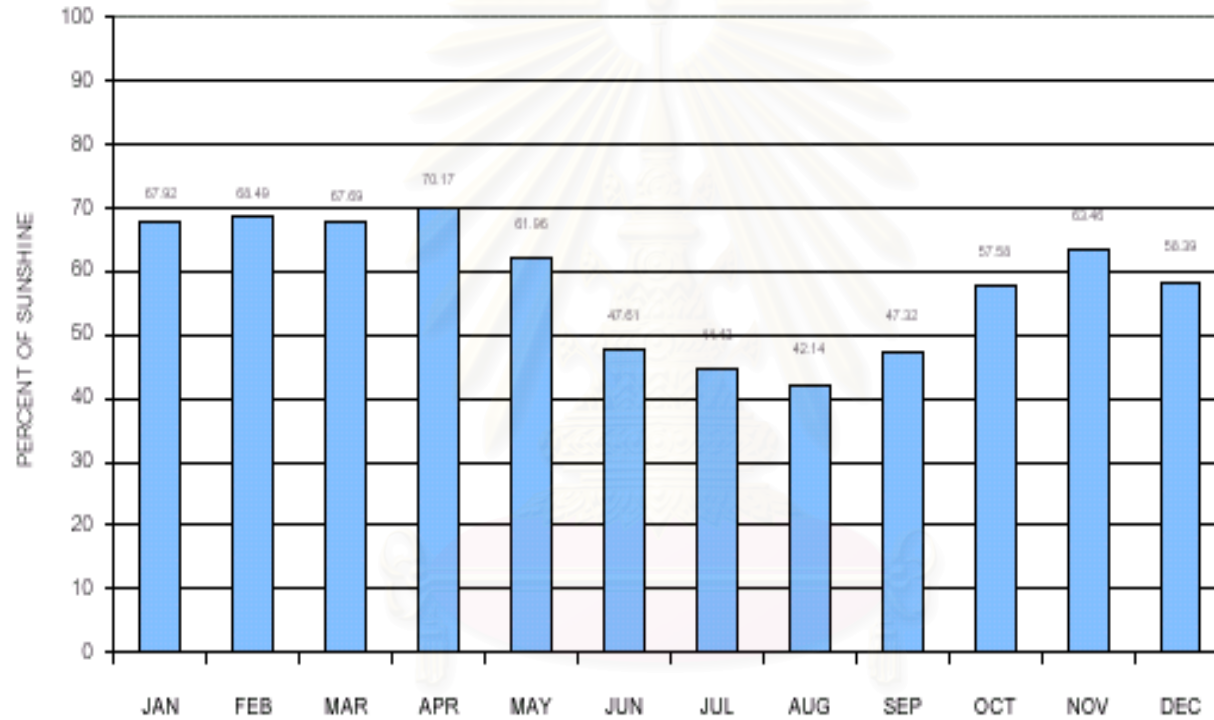
ตารางแสดงผลข้อมูลระยะเวลาของแสงแดด (duration of sunshine)

| DURATION OF SUNSHINE (hours) 1981 - 1998 (2524 - 2541) | | | | | | | | | | | | | | Station : KHON KAEN | | | | | | | | | | | | |
|--|---------|-------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------------------|--------|-------|-----------|-------|---------|-------|----------|-------|----------|-------|---------|-------|
| MONTH | JANUARY | | FEBRUARY | | MARCH | | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | | OCTOBER | | NOVEMBER | | DECEMBER | | ANNUAL | |
| DAY | hours | avg % | hours | avg % | hours | avg % | hours | avg % | hours | avg % | hours | avg % | hours | avg % | hours | avg % | hours | avg % | hours | avg % | hours | avg % | hours | avg % | hours | avg % |
| 1 | 6.7 | 55.8% | 8.5 | 70.8% | 6.9 | 57.2% | 8.4 | 70.1% | 8.9 | 74.0% | 6.3 | 52.3% | 4.7 | 39.1% | 4.7 | 39.2% | 5.0 | 41.7% | 6.9 | 57.4% | 8.6 | 71.3% | 7.8 | 64.9% | 6.9 | 57.8% |
| 2 | 7.4 | 61.9% | 8.3 | 69.5% | 7.8 | 64.6% | 9.1 | 75.8% | 8.3 | 69.0% | 6.8 | 56.6% | 6.0 | 50.1% | 4.3 | 35.5% | 5.0 | 41.9% | 6.4 | 53.3% | 6.9 | 57.8% | 7.1 | 58.8% | 6.9 | 57.9% |
| 3 | 6.8 | 56.9% | 7.9 | 65.6% | 7.9 | 66.0% | 8.4 | 70.3% | 8.2 | 68.5% | 5.3 | 44.0% | 5.5 | 46.0% | 5.7 | 47.6% | 6.1 | 51.1% | 5.7 | 47.4% | 7.2 | 59.8% | 7.2 | 59.7% | 6.8 | 56.9% |
| 4 | 7.5 | 62.6% | 8.5 | 70.5% | 7.9 | 65.6% | 7.6 | 63.1% | 7.9 | 66.0% | 6.4 | 53.3% | 3.6 | 29.9% | 5.0 | 41.7% | 6.7 | 56.0% | 4.7 | 39.1% | 7.3 | 61.1% | 7.0 | 58.0% | 6.7 | 55.6% |
| 5 | 7.5 | 62.4% | 7.6 | 63.2% | 7.1 | 59.3% | 7.5 | 62.7% | 7.6 | 62.9% | 5.3 | 43.8% | 5.5 | 45.8% | 4.9 | 40.5% | 4.7 | 39.3% | 4.7 | 39.5% | 7.6 | 63.1% | 7.6 | 63.5% | 6.5 | 53.8% |
| 6 | 7.3 | 61.0% | 8.0 | 66.7% | 7.2 | 59.7% | 8.8 | 73.3% | 8.8 | 73.4% | 6.3 | 52.4% | 6.3 | 52.1% | 5.8 | 48.1% | 4.4 | 36.8% | 6.7 | 55.5% | 8.0 | 66.8% | 7.8 | 65.3% | 7.1 | 59.3% |
| 7 | 7.3 | 60.8% | 8.7 | 72.6% | 7.4 | 61.3% | 8.3 | 68.8% | 8.0 | 67.0% | 5.7 | 47.8% | 6.4 | 53.4% | 5.6 | 46.7% | 4.7 | 38.9% | 6.2 | 51.5% | 7.9 | 66.0% | 7.8 | 65.2% | 7.0 | 58.3% |
| 8 | 7.4 | 61.7% | 8.2 | 68.7% | 7.3 | 61.0% | 7.0 | 58.5% | 8.7 | 72.8% | 6.0 | 50.2% | 6.7 | 55.9% | 6.2 | 51.8% | 4.5 | 37.6% | 5.8 | 48.3% | 7.6 | 63.2% | 7.8 | 65.3% | 6.9 | 57.9% |
| 9 | 7.7 | 64.0% | 7.8 | 64.9% | 8.6 | 71.5% | 9.0 | 74.7% | 7.5 | 62.6% | 6.7 | 55.8% | 6.0 | 49.8% | 6.8 | 56.3% | 4.8 | 39.6% | 6.6 | 55.2% | 6.8 | 56.6% | 7.6 | 63.0% | 7.1 | 59.5% |
| 10 | 8.1 | 67.5% | 7.4 | 62.0% | 8.5 | 71.1% | 9.3 | 77.4% | 7.8 | 65.1% | 6.8 | 56.8% | 5.7 | 47.3% | 5.6 | 46.8% | 5.3 | 44.2% | 6.8 | 56.3% | 7.6 | 63.0% | 6.7 | 56.0% | 7.1 | 59.5% |
| 11 | 8.3 | 69.2% | 8.0 | 66.6% | 9.3 | 77.4% | 9.6 | 79.9% | 7.0 | 58.5% | 6.1 | 50.4% | 5.6 | 46.6% | 5.5 | 45.6% | 6.7 | 56.1% | 6.5 | 53.9% | 8.2 | 68.2% | 7.2 | 59.9% | 7.3 | 61.0% |
| 12 | 7.7 | 63.9% | 8.0 | 67.0% | 8.0 | 66.4% | 8.1 | 67.2% | 7.5 | 62.2% | 5.8 | 48.1% | 5.2 | 43.5% | 4.8 | 40.3% | 6.7 | 55.5% | 6.5 | 53.8% | 6.7 | 55.8% | 7.3 | 60.6% | 6.8 | 57.0% |
| 13 | 8.5 | 70.8% | 8.7 | 72.2% | 7.0 | 58.3% | 7.5 | 62.5% | 6.1 | 51.0% | 5.5 | 46.0% | 5.1 | 42.4% | 5.2 | 43.1% | 5.7 | 47.3% | 6.4 | 53.1% | 6.8 | 57.0% | 7.3 | 60.6% | 6.6 | 55.4% |
| 14 | 8.7 | 72.5% | 8.4 | 69.7% | 8.1 | 67.3% | 7.7 | 64.2% | 6.7 | 55.7% | 6.7 | 55.4% | 4.5 | 37.2% | 5.1 | 42.4% | 5.3 | 44.2% | 6.9 | 57.8% | 7.7 | 64.5% | 6.6 | 55.2% | 6.9 | 57.2% |
| 15 | 8.7 | 72.3% | 7.4 | 61.7% | 8.3 | 68.9% | 8.2 | 68.7% | 7.2 | 60.0% | 6.9 | 57.4% | 5.7 | 47.4% | 3.3 | 27.6% | 5.7 | 47.3% | 6.9 | 57.7% | 7.3 | 60.7% | 5.7 | 47.8% | 6.8 | 56.5% |
| 16 | 8.5 | 70.7% | 8.0 | 66.5% | 8.7 | 72.5% | 9.1 | 75.8% | 6.8 | 56.7% | 5.7 | 47.2% | 5.8 | 48.7% | 4.7 | 39.1% | 5.6 | 46.5% | 5.7 | 47.7% | 8.2 | 68.5% | 6.5 | 54.3% | 6.9 | 57.9% |
| 17 | 8.7 | 72.2% | 8.1 | 67.4% | 9.2 | 76.9% | 8.5 | 70.7% | 6.4 | 53.7% | 5.7 | 47.7% | 6.3 | 52.4% | 4.8 | 39.9% | 5.4 | 44.9% | 6.2 | 51.5% | 6.9 | 57.5% | 6.3 | 52.5% | 6.9 | 57.3% |
| 18 | 9.2 | 76.8% | 7.6 | 63.5% | 9.4 | 78.1% | 8.4 | 70.0% | 6.7 | 56.1% | 4.7 | 39.4% | 5.8 | 48.1% | 4.5 | 37.6% | 4.4 | 36.7% | 6.8 | 56.5% | 7.7 | 64.4% | 5.7 | 47.8% | 6.8 | 56.3% |
| 19 | 9.0 | 74.9% | 7.7 | 64.0% | 8.6 | 71.9% | 9.2 | 76.5% | 7.0 | 58.7% | 5.6 | 46.5% | 5.8 | 48.1% | 5.9 | 48.8% | 4.7 | 38.9% | 7.0 | 58.4% | 8.6 | 71.4% | 7.2 | 59.7% | 7.2 | 59.8% |
| 20 | 9.1 | 76.1% | 8.3 | 69.4% | 9.1 | 76.0% | 6.9 | 57.4% | 7.2 | 59.6% | 5.8 | 48.1% | 5.4 | 44.7% | 5.3 | 43.9% | 3.7 | 30.5% | 7.0 | 58.7% | 8.3 | 69.1% | 7.3 | 60.4% | 6.9 | 57.8% |
| 21 | 9.0 | 74.9% | 8.9 | 74.2% | 8.2 | 67.9% | 7.9 | 66.1% | 7.3 | 60.9% | 6.0 | 49.8% | 5.9 | 49.0% | 6.0 | 50.1% | 6.1 | 50.6% | 7.9 | 66.1% | 7.8 | 64.8% | 7.0 | 57.9% | 7.3 | 61.0% |
| 22 | 9.1 | 76.0% | 8.9 | 73.9% | 7.8 | 65.3% | 8.2 | 68.3% | 8.8 | 72.9% | 6.2 | 51.7% | 5.5 | 46.0% | 5.5 | 45.6% | 4.9 | 41.1% | 7.9 | 65.5% | 8.0 | 66.7% | 7.1 | 58.8% | 7.3 | 61.0% |
| 23 | 8.7 | 72.3% | 8.8 | 73.1% | 7.6 | 63.7% | 9.6 | 79.6% | 9.1 | 75.8% | 6.4 | 53.5% | 4.2 | 34.7% | 2.8 | 23.0% | 5.2 | 43.6% | 7.9 | 66.2% | 8.5 | 70.5% | 6.9 | 57.4% | 7.1 | 59.4% |
| 24 | 8.6 | 71.7% | 7.7 | 63.9% | 8.4 | 70.2% | 9.4 | 78.6% | 8.1 | 67.4% | 5.0 | 41.6% | 5.1 | 42.4% | 3.2 | 26.7% | 5.9 | 49.1% | 6.9 | 57.6% | 7.0 | 58.6% | 6.8 | 56.9% | 6.8 | 57.1% |
| 25 | 7.6 | 63.7% | 8.2 | 68.3% | 7.8 | 64.9% | 8.9 | 74.0% | 5.6 | 46.8% | 4.3 | 35.5% | 6.5 | 54.0% | 4.8 | 39.7% | 6.4 | 53.0% | 7.7 | 63.8% | 7.7 | 63.8% | 6.9 | 57.8% | 6.9 | 57.1% |
| 26 | 6.7 | 55.8% | 8.0 | 66.7% | 8.8 | 73.7% | 8.4 | 69.7% | 7.0 | 58.6% | 4.1 | 34.1% | 5.9 | 49.0% | 6.1 | 50.4% | 6.7 | 55.9% | 8.3 | 69.2% | 7.8 | 65.0% | 7.2 | 60.0% | 7.1 | 59.0% |
| 27 | 7.8 | 64.8% | 8.4 | 69.8% | 7.5 | 62.8% | 7.8 | 64.7% | 5.8 | 48.5% | 4.5 | 37.2% | 5.3 | 44.3% | 7.6 | 62.9% | 7.1 | 58.9% | 8.9 | 74.3% | 6.8 | 56.7% | 7.0 | 58.0% | 7.0 | 58.6% |
| 28 | 7.8 | 65.2% | 8.5 | 70.4% | 8.2 | 68.1% | 9.5 | 79.5% | 6.0 | 49.9% | 4.7 | 39.2% | 5.0 | 41.3% | 5.6 | 46.5% | 7.3 | 60.9% | 8.4 | 69.8% | 7.0 | 58.4% | 6.8 | 56.4% | 7.1 | 58.8% |
| 29 | 8.8 | 73.3% | 10.0 | 83.6% | 8.2 | 68.5% | 8.3 | 69.4% | 7.5 | 62.7% | 5.1 | 42.2% | 3.6 | 30.1% | 4.5 | 37.1% | 7.8 | 65.0% | 7.9 | 66.0% | 8.5 | 70.6% | 6.9 | 57.2% | 7.3 | 60.5% |
| 30 | 9.3 | 77.4% | | | 9.0 | 75.0% | 8.1 | 67.6% | 7.3 | 60.8% | 5.3 | 44.4% | 3.7 | 31.2% | 2.9 | 24.0% | 8.0 | 66.6% | 7.8 | 65.1% | 7.5 | 62.8% | 6.3 | 52.7% | 6.8 | 57.1% |
| 31 | 9.2 | 76.4% | | | 8.1 | 67.2% | | | 7.6 | 63.1% | | | 3.3 | 27.4% | 4.5 | 37.8% | | | 8.3 | 68.8% | | | 7.0 | 58.5% | 6.8 | 57.0% |
| Average | 8.2 | 67.9% | 8.2 | 68.5% | 8.1 | 67.7% | 8.4 | 70.2% | 7.4 | 62.0% | 5.7 | 47.6% | 5.3 | 44.4% | 5.1 | 42.1% | 5.7 | 47.3% | 6.9 | 57.6% | 7.6 | 63.5% | 7.0 | 58.4% | 7.8 | 58.8% |
| Total | 252.7 | | 238.4 | | 251.8 | | 252.6 | | 230.5 | | 171.4 | | 165.3 | | 156.8 | | 170.4 | | 214.2 | | 228.5 | | 217.2 | | 2,549.6 | |

remark : observation hour = 12 hours (from 06:00 - 07:00 to 17:00 - 18:00)

แผนภูมิระยะเวลาของแสงแดด (average percent of sunshine per month)

AVERAGE PERCENT OF SUNSHINE PER MONTH 1967 - 1998 (2530 - 2541) Station : KHON KAEN



remark : observation hour = 12 hours (from 06:00 - 18:00)

สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

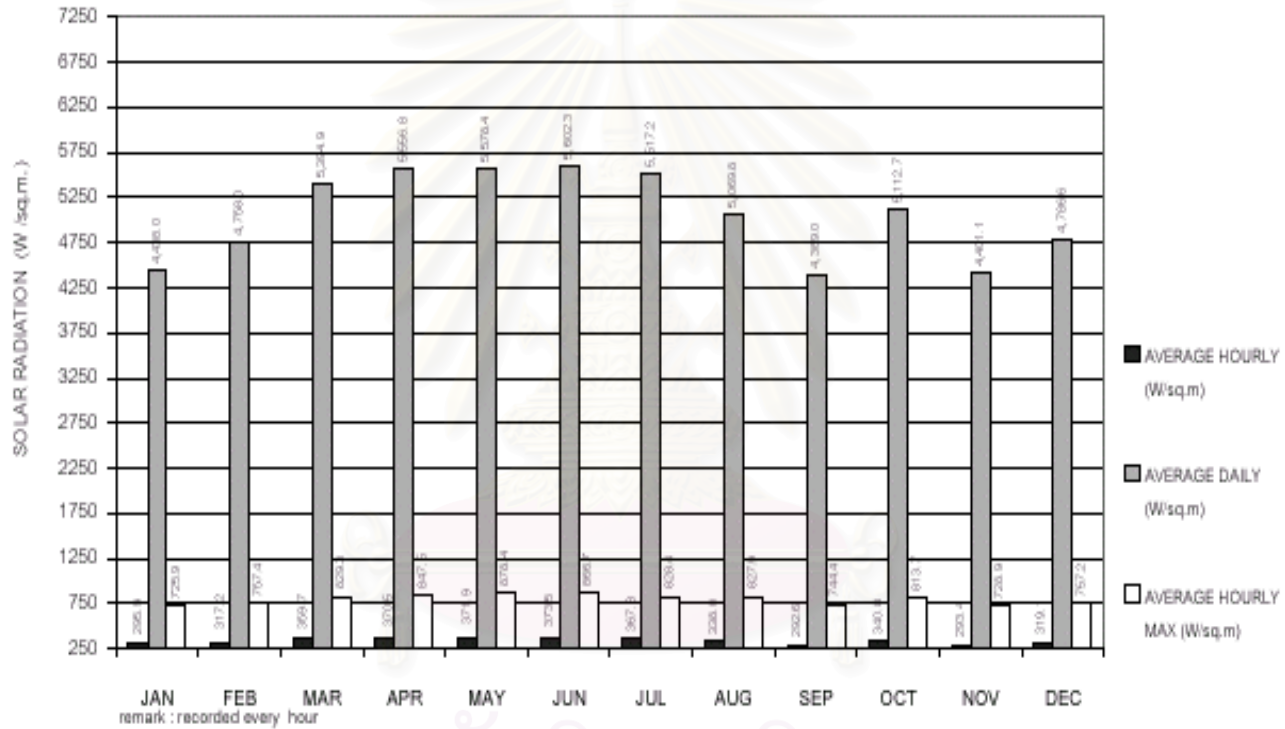
ตารางแสดงผลข้อมูลปริมาณรังสีรวมดวงอาทิตย์ (solar radiation)

| SOLAR RADIATION (W / m^2) 1998 (2541) | | | | | | | | | | | | | Station : KHON KAEN | | | | | | | | | | | | | |
|---|---------|---------|----------|---------|--------|---------|--------|---------|--------|---------|--------|---------|---------------------|---------|--------|---------|-----------|---------|---------|---------|----------|---------|----------|---------|--------|---------|
| MONTH | JANUARY | | FEBRUARY | | MARCH | | APRIL | | MAY | | JUNE | | JULY | | AUGUST | | SEPTEMBER | | OCTOBER | | NOVEMBER | | DECEMBER | | ANNUAL | |
| DAY | hourly | daily | hourly | daily | hourly | daily | hourly | daily | hourly | daily | hourly | daily | hourly | daily | hourly | daily | hourly | daily | hourly | daily | hourly | daily | hourly | daily | hourly | daily |
| 1 | 313.3 | 4,699.4 | 310.4 | 4,656.5 | 128.5 | 1,927.6 | 300.3 | 4,505.2 | 454.6 | 6,819.1 | 389.4 | 5,840.4 | 307.1 | 4,605.8 | 377.8 | 5,667.0 | 211.4 | 3,171.4 | 368.6 | 5,528.5 | 367.4 | 5,511.6 | 339.7 | 5,096.1 | 322.4 | 4,835.7 |
| 2 | 322.6 | 4,839.4 | 329.5 | 4,942.0 | 282.5 | 4,237.1 | 328.7 | 4,930.3 | 409.7 | 6,145.4 | 424.2 | 6,362.9 | 168.1 | 2,521.5 | 322.5 | 4,837.2 | 357.2 | 5,357.8 | 390.0 | 5,849.6 | 265.6 | 3,984.4 | 349.3 | 5,239.8 | 329.2 | 4,937.3 |
| 3 | 326.0 | 4,889.3 | 276.7 | 4,149.9 | 270.1 | 4,052.0 | 338.2 | 5,072.5 | 431.8 | 6,477.1 | 410.2 | 6,152.8 | 111.2 | 1,668.4 | 419.7 | 6,296.2 | 311.2 | 4,667.4 | 399.0 | 5,985.0 | 355.6 | 5,333.8 | 303.2 | 4,547.9 | 329.4 | 4,941.0 |
| 4 | 302.7 | 4,540.3 | 211.7 | 3,175.4 | 351.9 | 5,279.0 | 148.5 | 2,226.9 | 418.8 | 6,281.3 | 449.9 | 6,747.9 | 311.1 | 4,667.0 | 442.1 | 6,631.6 | 359.3 | 5,389.7 | 237.5 | 3,563.1 | 356.7 | 5,349.8 | 280.7 | 4,210.8 | 322.6 | 4,838.6 |
| 5 | 327.2 | 4,907.4 | 134.4 | 2,016.5 | 283.7 | 4,255.8 | 375.6 | 5,633.7 | 415.1 | 6,225.8 | 221.4 | 3,320.9 | 273.1 | 4,096.8 | 344.6 | 5,168.4 | 348.9 | 5,232.8 | 289.5 | 4,342.5 | 370.3 | 5,554.1 | 334.4 | 5,016.2 | 309.8 | 4,647.6 |
| 6 | 321.7 | 4,825.8 | 284.0 | 4,260.5 | 368.3 | 5,524.8 | 401.9 | 6,029.0 | 421.1 | 6,316.6 | 339.8 | 5,097.1 | 443.6 | 6,654.5 | 237.6 | 3,563.6 | 157.4 | 2,360.7 | 333.1 | 4,997.0 | 343.0 | 5,145.7 | 323.3 | 4,850.1 | 331.3 | 4,968.8 |
| 7 | 316.2 | 4,743.0 | 370.5 | 5,557.2 | 393.0 | 5,894.8 | 390.8 | 5,861.9 | 438.4 | 6,575.3 | 329.4 | 4,940.7 | 335.7 | 5,035.5 | 283.8 | 4,257.3 | 217.6 | 3,264.0 | 226.5 | 3,397.3 | 360.3 | 5,404.7 | 340.7 | 5,111.0 | 333.6 | 5,003.5 |
| 8 | 320.4 | 4,806.5 | 301.7 | 4,525.0 | 411.3 | 6,169.5 | 355.8 | 5,337.0 | 453.7 | 6,805.2 | 358.1 | 5,371.3 | 455.7 | 6,835.4 | 226.3 | 3,394.6 | 343.0 | 5,144.7 | 339.7 | 5,095.2 | 348.2 | 5,223.6 | 342.9 | 5,143.6 | 354.7 | 5,321.0 |
| 9 | 298.4 | 4,476.3 | 313.4 | 4,700.8 | 390.1 | 5,852.2 | 428.2 | 6,423.1 | 438.6 | 6,578.5 | 425.8 | 6,386.4 | 434.2 | 6,512.6 | 388.6 | 5,828.8 | 351.8 | 5,276.3 | 253.3 | 3,798.9 | 342.9 | 5,142.8 | 327.4 | 4,911.0 | 366.0 | 5,490.6 |
| 10 | 274.4 | 4,115.5 | 277.7 | 4,165.7 | 393.8 | 5,907.2 | 392.3 | 5,884.6 | 371.0 | 5,564.8 | 434.8 | 6,522.0 | 363.1 | 5,447.2 | 290.7 | 4,360.1 | 164.0 | 2,459.8 | 201.3 | 3,020.1 | 330.6 | 4,958.6 | 330.8 | 4,962.2 | 318.7 | 4,780.6 |
| 11 | 260.1 | 3,901.2 | 178.9 | 2,684.1 | 401.1 | 6,016.1 | 421.5 | 6,321.8 | 369.0 | 5,535.3 | 335.2 | 5,028.4 | 437.7 | 6,565.6 | 258.6 | 3,879.7 | 361.5 | 5,422.8 | 347.6 | 5,214.1 | 334.0 | 5,010.3 | 329.7 | 4,945.9 | 336.3 | 5,043.8 |
| 12 | 201.6 | 3,023.6 | 261.5 | 3,922.6 | 324.9 | 4,872.8 | 397.1 | 5,956.2 | 385.1 | 5,776.4 | 476.3 | 7,143.9 | 332.6 | 4,988.3 | 267.5 | 4,013.1 | 377.2 | 5,658.1 | 353.2 | 5,297.6 | 327.0 | 4,905.6 | 331.2 | 4,967.3 | 336.3 | 5,043.8 |
| 13 | 272.6 | 4,088.5 | 300.1 | 4,500.9 | 333.4 | 5,001.1 | 387.6 | 5,813.7 | 226.2 | 3,393.4 | 483.6 | 7,254.2 | 269.8 | 4,046.3 | 238.5 | 3,577.4 | 394.8 | 5,921.9 | 352.4 | 5,285.7 | 336.6 | 5,049.0 | 327.5 | 4,913.2 | 326.9 | 4,903.8 |
| 14 | 303.4 | 4,551.0 | 315.8 | 4,737.6 | 382.5 | 5,737.2 | 423.1 | 6,345.9 | 454.8 | 6,821.8 | 420.6 | 6,308.3 | 206.6 | 3,098.9 | 325.2 | 4,877.6 | 254.8 | 3,822.6 | 415.0 | 6,225.6 | 292.2 | 4,382.4 | 338.3 | 5,074.7 | 344.4 | 5,165.3 |
| 15 | 301.0 | 4,515.5 | 383.3 | 5,749.9 | 378.5 | 5,677.3 | 409.7 | 6,144.9 | 412.4 | 6,185.4 | 381.8 | 5,726.5 | 445.8 | 6,687.4 | 295.3 | 4,429.0 | 285.7 | 4,285.9 | 394.9 | 5,924.1 | 271.3 | 4,069.7 | 334.6 | 5,019.4 | 357.9 | 5,367.9 |
| 16 | 313.4 | 4,701.3 | 351.1 | 5,265.9 | 397.2 | 5,958.1 | 299.3 | 4,489.9 | 383.7 | 5,755.7 | 434.2 | 6,513.6 | 451.5 | 6,772.5 | 362.3 | 5,433.9 | 219.9 | 3,298.9 | 374.4 | 5,616.7 | 262.0 | 3,929.5 | 326.8 | 4,902.5 | 348.0 | 5,219.9 |
| 17 | 287.4 | 4,310.9 | 382.9 | 5,742.8 | 389.3 | 5,839.5 | 198.1 | 2,971.3 | 201.1 | 3,016.8 | 386.4 | 5,795.9 | 452.1 | 6,781.7 | 411.9 | 6,179.2 | 244.8 | 3,672.7 | 322.2 | 4,832.3 | 286.5 | 4,298.0 | 329.4 | 4,940.5 | 324.3 | 4,865.1 |
| 18 | 297.0 | 4,454.8 | 408.1 | 6,122.0 | 398.9 | 5,983.9 | 347.5 | 5,212.6 | 290.7 | 4,360.6 | 400.4 | 6,005.3 | 447.1 | 6,706.5 | 389.5 | 5,842.8 | 230.3 | 3,453.8 | 353.0 | 5,295.6 | 309.4 | 4,640.6 | 332.6 | 4,989.7 | 350.4 | 5,255.7 |
| 19 | 279.3 | 4,189.3 | 390.0 | 5,850.5 | 399.5 | 5,992.9 | 343.8 | 5,156.5 | 367.6 | 5,514.1 | 455.5 | 6,832.0 | 451.5 | 6,772.3 | 249.0 | 3,735.1 | 184.9 | 2,773.4 | 379.3 | 5,689.0 | 331.4 | 4,970.7 | 306.7 | 4,600.7 | 344.9 | 5,173.0 |
| 20 | 239.5 | 3,592.1 | 388.1 | 5,821.2 | 409.0 | 6,135.7 | 197.3 | 2,960.1 | 356.4 | 5,345.8 | 342.3 | 5,133.9 | 445.0 | 6,675.3 | 222.7 | 3,340.0 | 145.5 | 2,182.7 | 322.0 | 4,829.7 | 268.5 | 4,027.4 | 302.8 | 4,541.8 | 303.3 | 4,548.8 |
| 21 | 260.4 | 3,906.1 | 363.3 | 5,449.8 | 396.2 | 5,942.8 | 410.9 | 6,164.2 | 345.1 | 5,177.0 | 455.8 | 6,836.4 | 466.2 | 6,993.5 | 313.8 | 4,706.6 | 240.0 | 3,599.9 | 357.0 | 5,355.6 | 123.8 | 1,857.0 | 281.5 | 4,222.2 | 334.5 | 5,017.6 |
| 22 | 283.0 | 4,245.6 | 347.8 | 5,217.2 | 372.0 | 5,580.3 | 378.6 | 5,679.2 | 395.9 | 5,938.6 | 454.1 | 6,811.5 | 436.3 | 6,544.5 | 303.2 | 4,548.7 | 278.7 | 4,180.5 | 321.0 | 4,814.4 | 250.9 | 3,762.9 | 288.5 | 4,326.9 | 342.5 | 5,137.5 |
| 23 | 243.5 | 3,652.5 | 351.9 | 5,278.6 | 326.9 | 4,904.0 | 450.2 | 6,753.4 | 376.0 | 5,639.5 | 344.0 | 5,159.5 | 439.0 | 6,584.9 | 272.1 | 4,081.6 | 339.3 | 5,089.9 | 349.4 | 5,241.5 | 283.6 | 4,254.4 | 296.8 | 4,436.3 | 339.3 | 5,089.7 |
| 24 | 280.5 | 4,206.9 | 313.8 | 4,706.9 | 378.1 | 5,672.2 | 420.6 | 6,309.3 | 368.3 | 5,524.8 | 318.1 | 4,771.2 | 373.7 | 5,605.4 | 411.9 | 6,178.9 | 306.0 | 4,590.1 | 381.5 | 5,722.9 | 277.3 | 4,159.9 | 317.9 | 4,768.5 | 345.6 | 5,184.7 |
| 25 | 238.0 | 3,569.9 | 332.5 | 4,987.5 | 316.7 | 4,749.8 | 400.5 | 6,008.0 | 68.5 | 1,027.1 | 255.1 | 3,826.5 | 356.8 | 5,351.5 | 440.8 | 6,612.2 | 406.3 | 6,095.0 | 371.6 | 5,573.5 | 289.4 | 4,340.8 | 279.2 | 4,188.1 | 312.9 | 4,694.2 |
| 26 | 306.1 | 4,591.5 | 295.8 | 4,437.5 | 372.1 | 5,581.8 | 415.6 | 6,234.1 | 240.1 | 3,601.6 | 291.2 | 4,368.3 | 444.3 | 6,664.4 | 465.3 | 6,980.0 | 294.1 | 4,411.6 | 355.5 | 5,332.6 | 223.1 | 3,345.8 | 293.8 | 4,406.4 | 333.1 | 4,996.3 |
| 27 | 334.4 | 5,016.5 | 358.6 | 5,378.4 | 363.7 | 5,455.4 | 420.6 | 6,309.1 | 411.2 | 6,168.3 | 304.3 | 4,564.2 | 446.4 | 6,696.6 | 458.0 | 6,870.7 | 371.5 | 5,571.8 | 343.0 | 5,145.0 | 132.3 | 1,984.9 | 315.6 | 4,734.4 | 355.0 | 5,324.6 |
| 28 | 339.9 | 5,098.6 | 348.1 | 5,221.3 | 386.7 | 5,800.0 | 440.3 | 6,605.0 | 417.6 | 6,264.3 | 323.3 | 4,849.8 | 346.8 | 5,202.5 | 448.2 | 6,723.2 | 285.1 | 4,277.2 | 347.9 | 5,218.5 | 243.7 | 3,655.8 | 334.4 | 5,016.5 | 355.2 | 5,327.7 |
| 29 | 354.8 | 5,322.2 | | | 399.8 | 5,997.1 | 440.0 | 6,600.2 | 432.5 | 6,487.7 | 282.1 | 4,232.0 | 326.9 | 4,903.2 | 395.1 | 5,926.5 | 341.4 | 5,121.5 | 370.8 | 5,562.6 | 282.8 | 4,241.6 | 321.9 | 4,828.2 | 358.9 | 5,383.9 |
| 30 | 329.6 | 4,944.1 | | | 378.6 | 5,678.5 | 450.9 | 6,763.3 | 433.2 | 6,497.6 | 277.7 | 4,165.2 | 351.0 | 5,265.6 | 328.8 | 4,931.7 | 394.4 | 5,915.8 | 344.6 | 5,169.2 | 235.8 | 3,537.0 | 317.9 | 4,767.8 | 349.3 | 5,239.6 |
| 31 | 323.5 | 4,852.1 | | | 371.0 | 5,565.5 | | | 340.5 | 5,108.0 | | | 272.2 | 4,082.5 | 286.1 | 4,292.2 | | | 371.4 | 5,570.8 | | | 313.7 | 4,705.9 | 325.5 | 4,882.4 |
| Average | 295.9 | 4,438.0 | 317.2 | 4,758.0 | 359.7 | 5,394.9 | 370.5 | 5,556.8 | 371.9 | 5,578.4 | 373.5 | 5,602.3 | 367.8 | 5,517.2 | 338.0 | 5,069.8 | 292.6 | 4,389.0 | 340.8 | 5,112.7 | 293.4 | 4,401.1 | 319.1 | 4,786.6 | 336.8 | 5,050.4 |
| Avg. max | 725.9 | | 757.4 | | 829.3 | | 847.5 | | 878.4 | | 866.7 | | 828.4 | | 827.9 | | 744.4 | | 813.7 | | 728.9 | | 757.2 | | 800.5 | |

remark : 1 $W/m^2 = 0.317 Btu/hr/m^2 = 3.6 kJ/m^2$

แผนภูมิปริมาณรังสีรวมดวงอาทิตย์ (solar radiation)

SOLAR RADIATION (W/sq.m.) ONE YEAR ROUND 1997 - 1998 (2540 - 2541) Station : KHON KAEN



: 1 W/sq.m. = 0.317 Btu./ft.²

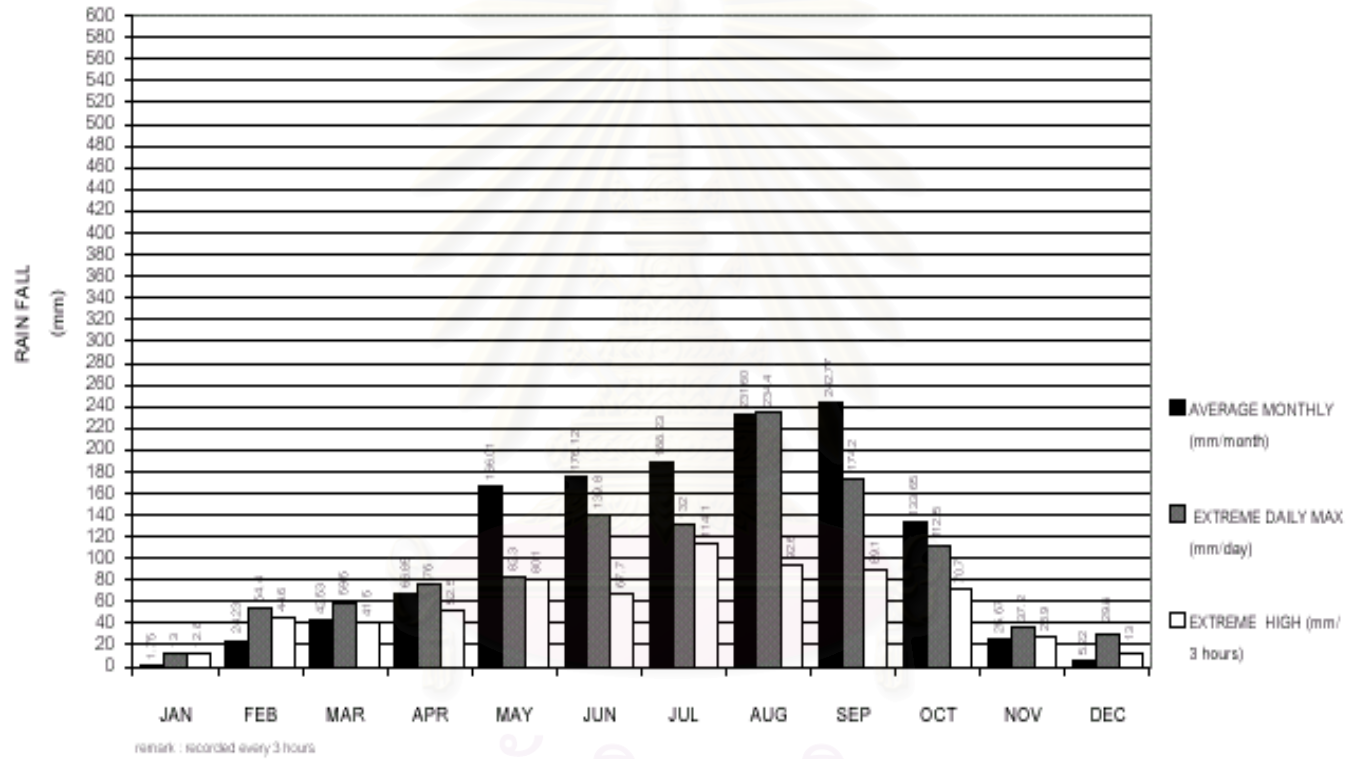
สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

ตารางแสดงผลข้อมูลปริมาณน้ำฝน (rain fall)

| RAIN FALL (mm) 1981 - 1998 (2524 - 2541) | | | | | | | | | | | | | Station : KHON KAEN |
|--|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|---------------------|
| MONTH | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | ANNUAL |
| DAY | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total |
| 1 | 0.0 | 0.0 | 0.9 | 0.6 | 3.6 | 5.6 | 7.7 | 2.3 | 11.3 | 7.8 | 1.8 | 0.2 | 41.9 |
| 2 | 0.0 | 0.0 | 0.0 | 0.4 | 2.1 | 7.2 | 2.0 | 3.1 | 10.9 | 6.6 | 0.1 | 0.7 | 33.2 |
| 3 | 0.0 | 0.0 | 1.9 | 0.1 | 3.3 | 4.0 | 10.7 | 4.3 | 16.7 | 5.9 | 4.0 | 0.1 | 51.1 |
| 4 | 0.3 | 0.1 | 0.1 | 0.9 | 8.3 | 4.6 | 10.7 | 7.7 | 4.6 | 6.7 | 1.9 | 0.1 | 46.0 |
| 5 | 0.7 | 2.0 | 0.1 | 0.5 | 2.6 | 6.2 | 7.3 | 19.5 | 5.5 | 10.5 | 0.7 | 0.0 | 55.6 |
| 6 | 0.0 | 0.1 | 0.0 | 0.3 | 6.8 | 11.1 | 4.4 | 6.2 | 7.8 | 5.0 | 1.8 | 0.0 | 43.5 |
| 7 | 0.0 | 0.0 | 0.0 | 0.9 | 4.0 | 4.7 | 3.4 | 8.0 | 15.5 | 5.6 | 1.6 | 0.0 | 43.6 |
| 8 | 0.0 | 0.0 | 2.3 | 2.8 | 2.8 | 9.2 | 7.8 | 10.5 | 16.9 | 7.0 | 2.2 | 0.0 | 61.5 |
| 9 | 0.0 | 0.3 | 0.0 | 0.5 | 5.0 | 6.5 | 6.0 | 7.3 | 8.1 | 4.5 | 1.5 | 0.0 | 39.7 |
| 10 | 0.0 | 5.0 | 0.7 | 0.6 | 2.1 | 4.4 | 4.0 | 8.1 | 6.4 | 2.2 | 0.2 | 0.0 | 33.7 |
| 11 | 0.0 | 0.0 | 1.0 | 0.4 | 5.5 | 9.2 | 10.9 | 6.3 | 6.5 | 5.4 | 0.7 | 0.0 | 46.0 |
| 12 | 0.0 | 0.0 | 1.9 | 1.8 | 2.8 | 3.1 | 6.7 | 7.6 | 4.6 | 6.0 | 0.3 | 0.0 | 34.8 |
| 13 | 0.0 | 0.0 | 3.7 | 1.9 | 5.5 | 6.4 | 1.0 | 5.8 | 7.2 | 3.0 | 1.2 | 0.0 | 35.8 |
| 14 | 0.0 | 1.5 | 1.2 | 0.5 | 8.4 | 8.2 | 3.3 | 12.6 | 8.2 | 10.9 | 1.5 | 0.0 | 56.2 |
| 15 | 0.0 | 1.3 | 0.1 | 1.8 | 8.5 | 3.8 | 3.5 | 8.3 | 9.7 | 2.8 | 0.0 | 0.0 | 39.8 |
| 16 | 0.0 | 0.9 | 0.1 | 0.8 | 1.7 | 2.5 | 8.0 | 1.5 | 5.0 | 11.6 | 0.0 | 0.0 | 32.0 |
| 17 | 0.0 | 0.7 | 0.2 | 3.1 | 3.9 | 6.3 | 4.0 | 9.3 | 17.7 | 6.0 | 1.2 | 0.0 | 52.3 |
| 18 | 0.0 | 2.0 | 0.1 | 2.3 | 5.8 | 6.4 | 7.1 | 21.4 | 5.8 | 9.0 | 1.1 | 0.0 | 60.9 |
| 19 | 0.0 | 0.0 | 1.1 | 0.0 | 10.6 | 9.4 | 7.1 | 9.8 | 7.6 | 3.2 | 0.0 | 0.0 | 48.8 |
| 20 | 0.0 | 0.1 | 0.1 | 5.7 | 11.4 | 3.6 | 0.9 | 7.3 | 10.3 | 4.7 | 0.0 | 0.0 | 44.0 |
| 21 | 0.0 | 0.0 | 3.2 | 1.1 | 2.6 | 1.8 | 3.1 | 5.3 | 3.1 | 0.1 | 1.4 | 0.0 | 21.8 |
| 22 | 0.5 | 0.0 | 0.8 | 7.2 | 6.7 | 5.1 | 11.8 | 4.5 | 2.6 | 1.7 | 0.2 | 0.0 | 41.1 |
| 23 | 0.0 | 0.2 | 3.3 | 2.1 | 5.1 | 2.4 | 7.7 | 10.3 | 7.8 | 1.4 | 0.0 | 0.0 | 40.2 |
| 24 | 0.0 | 0.3 | 2.9 | 1.7 | 4.3 | 2.0 | 6.7 | 6.7 | 11.2 | 0.7 | 0.0 | 0.1 | 36.6 |
| 25 | 0.0 | 1.6 | 2.2 | 4.3 | 6.7 | 2.9 | 1.9 | 5.4 | 3.9 | 2.4 | 0.0 | 0.9 | 32.1 |
| 26 | 0.1 | 1.3 | 1.5 | 4.4 | 8.4 | 6.0 | 2.9 | 3.6 | 6.1 | 0.0 | 0.0 | 0.0 | 34.4 |
| 27 | 0.0 | 0.2 | 5.8 | 3.5 | 5.8 | 16.7 | 8.9 | 6.3 | 8.6 | 0.4 | 0.8 | 0.0 | 56.9 |
| 28 | 0.0 | 1.4 | 2.6 | 3.6 | 11.0 | 1.6 | 9.2 | 1.6 | 2.3 | 0.0 | 0.3 | 1.1 | 34.9 |
| 29 | 0.0 | 5.1 | 1.7 | 2.5 | 3.8 | 7.7 | 4.4 | 5.5 | 8.4 | 1.8 | 0.0 | 1.8 | 42.7 |
| 30 | 0.0 | | 2.8 | 10.4 | 3.9 | 7.5 | 9.6 | 10.5 | 2.7 | 59.1 | 1.3 | 0.1 | 107.9 |
| 31 | 0.0 | | 0.5 | | 2.8 | | 5.5 | 5.2 | | 0.5 | | 0.0 | 14.4 |
| Monthly | 1.8 | 24.2 | 42.5 | 66.9 | 166.0 | 176.1 | 188.2 | 231.6 | 242.8 | 133.7 | 25.7 | 5.2 | 1,304.6 |
| Daily record high | 13.0 | 54.4 | 59.5 | 76.0 | 82.3 | 139.8 | 132.0 | 234.4 | 174.2 | 112.5 | 37.2 | 29.8 | 234.4 |
| 3 hr. Extremes | 12.8 | 44.6 | 41.5 | 52.5 | 80.1 | 67.7 | 114.1 | 92.6 | 89.1 | 70.7 | 26.9 | 13.0 | 114.1 |
| No. of rainy days | 1 | 2 | 4 | 7 | 15 | 16 | 17 | 18 | 17 | 11 | 3 | 1 | 112 |

แผนภูมิปริมาณน้ำฝน (rain fall)

RAIN FALL (mm) 1981 - 1998 (2524 - 2541) Station : KHON KAEN



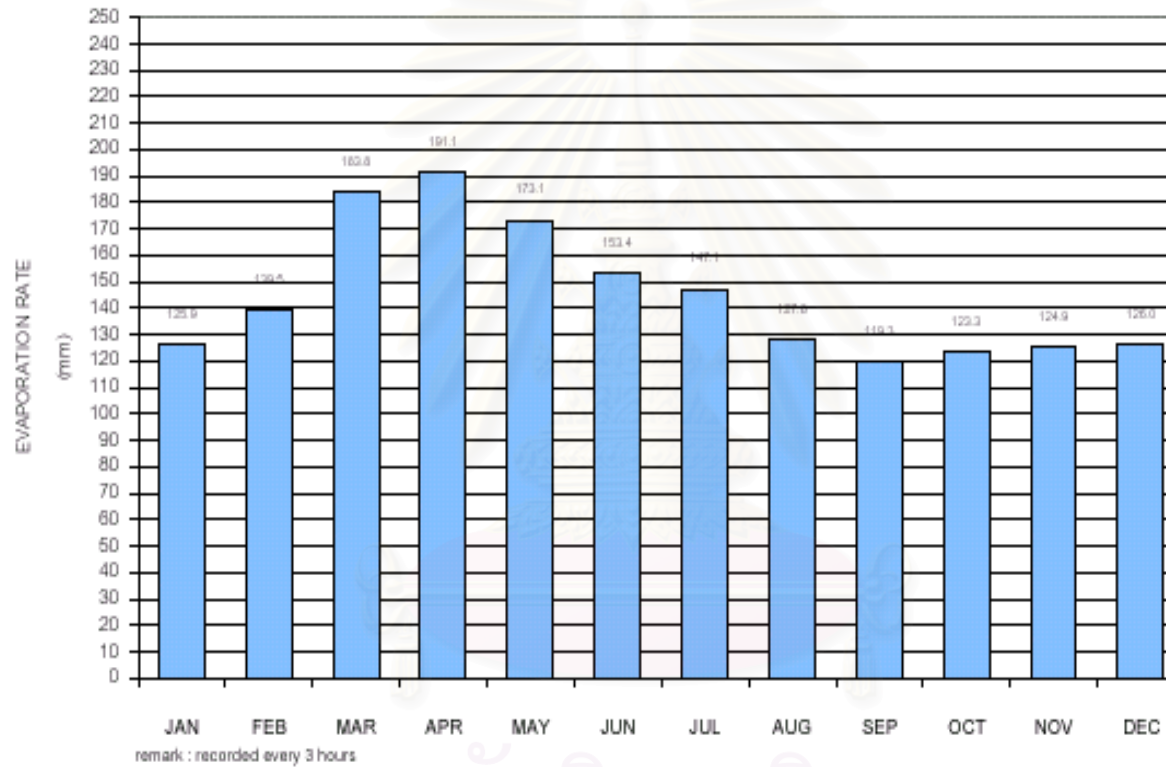
สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

ตารางแสดงผลข้อมูลค่าเฉลี่ยอัตราการระเหยของน้ำรายวัน (evaporation)

| EVAPORATION (mm) 1981 - 1998 (2524 - 2541) | | | | | | | | | | | | | Station : KHON KAEN |
|--|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|---------------------|
| MONTH | JANUARY | FEBRUARY | MARCH | APRIL | MAY | JUNE | JULY | AUGUST | SEPTEMBER | OCTOBER | NOVEMBER | DECEMBER | ANNUAL |
| DAY | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total | Total |
| 1 | 3.8 | 4.8 | 5.2 | 6.5 | 6.0 | 5.5 | 5.4 | 4.7 | 4.5 | 4.3 | 4.3 | 3.7 | 58.6 |
| 2 | 3.9 | 4.7 | 5.2 | 7.0 | 5.9 | 5.3 | 5.3 | 3.4 | 3.4 | 4.0 | 4.2 | 3.9 | 56.4 |
| 3 | 3.8 | 4.3 | 5.3 | 6.3 | 6.9 | 4.9 | 5.1 | 4.3 | 3.7 | 4.0 | 3.9 | 3.9 | 56.3 |
| 4 | 4.2 | 4.4 | 4.8 | 6.1 | 6.3 | 4.9 | 4.2 | 3.8 | 4.2 | 3.6 | 4.2 | 4.2 | 54.8 |
| 5 | 4.1 | 4.3 | 4.8 | 6.2 | 5.5 | 5.1 | 5.2 | 4.3 | 4.3 | 4.2 | 4.1 | 4.1 | 56.2 |
| 6 | 4.0 | 4.7 | 4.9 | 6.5 | 6.0 | 5.5 | 4.6 | 4.7 | 3.9 | 4.0 | 3.9 | 4.2 | 56.9 |
| 7 | 4.0 | 4.7 | 4.7 | 6.3 | 6.4 | 5.0 | 5.3 | 4.5 | 3.7 | 4.1 | 4.2 | 4.1 | 57.0 |
| 8 | 4.1 | 4.5 | 5.6 | 6.3 | 6.1 | 5.2 | 5.1 | 4.1 | 4.0 | 3.5 | 4.6 | 4.0 | 57.0 |
| 9 | 3.9 | 4.2 | 5.5 | 6.4 | 5.9 | 5.1 | 4.9 | 4.8 | 3.0 | 4.1 | 4.2 | 4.3 | 56.2 |
| 10 | 4.0 | 4.7 | 6.0 | 6.6 | 5.4 | 5.4 | 4.3 | 4.2 | 3.8 | 3.9 | 4.2 | 4.2 | 56.4 |
| 11 | 3.9 | 4.6 | 6.4 | 7.0 | 5.2 | 5.2 | 5.0 | 4.4 | 3.9 | 3.9 | 4.3 | 3.9 | 57.6 |
| 12 | 4.1 | 3.9 | 5.9 | 7.0 | 5.6 | 5.4 | 4.6 | 4.4 | 3.8 | 3.6 | 4.0 | 4.2 | 56.6 |
| 13 | 4.2 | 4.9 | 5.6 | 5.9 | 5.8 | 4.9 | 4.6 | 4.4 | 3.8 | 3.5 | 4.1 | 4.2 | 56.0 |
| 14 | 3.8 | 4.8 | 6.4 | 6.5 | 4.8 | 5.4 | 4.3 | 4.2 | 3.8 | 3.6 | 4.0 | 4.1 | 55.5 |
| 15 | 4.0 | 5.1 | 6.2 | 6.3 | 5.0 | 5.6 | 4.8 | 3.8 | 3.6 | 4.2 | 3.7 | 3.9 | 56.3 |
| 16 | 3.8 | 5.3 | 6.6 | 6.1 | 5.3 | 5.4 | 4.9 | 4.1 | 4.2 | 3.6 | 4.2 | 4.4 | 57.9 |
| 17 | 4.3 | 5.0 | 6.7 | 6.7 | 4.7 | 5.0 | 4.7 | 4.2 | 4.6 | 3.9 | 4.1 | 3.8 | 57.6 |
| 18 | 4.1 | 5.3 | 7.3 | 6.2 | 5.0 | 5.0 | 4.5 | 3.9 | 4.2 | 3.8 | 4.2 | 4.1 | 57.6 |
| 19 | 4.1 | 5.2 | 5.9 | 7.4 | 4.9 | 5.3 | 4.9 | 4.5 | 4.2 | 4.1 | 4.3 | 4.2 | 59.0 |
| 20 | 4.1 | 5.2 | 6.7 | 6.0 | 6.4 | 4.6 | 5.0 | 3.6 | 3.5 | 4.4 | 4.1 | 4.3 | 58.1 |
| 21 | 4.3 | 5.3 | 6.2 | 6.2 | 6.1 | 5.5 | 4.4 | 4.5 | 3.7 | 4.0 | 4.1 | 4.4 | 58.7 |
| 22 | 3.9 | 5.0 | 6.0 | 6.4 | 6.0 | 5.8 | 4.8 | 5.1 | 4.4 | 3.8 | 4.2 | 4.3 | 59.7 |
| 23 | 4.3 | 4.9 | 6.1 | 6.3 | 6.1 | 5.2 | 4.5 | 2.3 | 4.3 | 3.9 | 4.4 | 4.4 | 56.5 |
| 24 | 3.9 | 4.9 | 6.5 | 6.1 | 5.5 | 5.1 | 4.3 | 3.5 | 4.0 | 4.0 | 4.0 | 4.1 | 55.9 |
| 25 | 4.2 | 4.9 | 6.1 | 6.1 | 5.2 | 4.7 | 5.2 | 3.9 | 3.9 | 4.5 | 4.1 | 3.6 | 56.2 |
| 26 | 3.5 | 4.8 | 6.6 | 6.0 | 5.0 | 5.0 | 5.1 | 3.3 | 3.7 | 4.1 | 4.3 | 3.9 | 55.4 |
| 27 | 4.4 | 5.1 | 6.4 | 6.1 | 5.0 | 4.3 | 5.0 | 4.3 | 4.2 | 4.4 | 4.1 | 4.2 | 57.5 |
| 28 | 4.0 | 4.8 | 6.2 | 6.5 | 5.3 | 4.2 | 4.8 | 4.3 | 4.2 | 4.3 | 4.1 | 4.1 | 57.0 |
| 29 | 4.5 | 5.2 | 5.7 | 6.2 | 5.1 | 4.3 | 4.0 | 4.0 | 4.5 | 3.9 | 4.2 | 3.8 | 55.3 |
| 30 | 4.5 | | 6.0 | 5.9 | 5.4 | 5.7 | 4.6 | 3.7 | 4.2 | 4.1 | 4.5 | 3.5 | 52.2 |
| 31 | 4.4 | | 6.1 | | 5.6 | | 4.0 | 4.3 | | 4.3 | | 3.9 | 32.6 |
| AVG Monthly | 125.9 | 139.5 | 183.8 | 191.1 | 173.1 | 153.4 | 147.1 | 127.8 | 119.3 | 123.3 | 124.9 | 126.0 | 1,735.3 |
| Daily Mean | 4.1 | 4.8 | 5.9 | 6.4 | 5.6 | 5.1 | 4.7 | 4.1 | 4.0 | 4.0 | 4.2 | 4.1 | 4.7 |
| Extremes | 6.5 | 8.3 | 11.2 | 11.6 | 11.1 | 11.0 | 11.5 | 10.5 | 9.3 | 8.0 | 8.4 | 7.9 | 11.6 |

แผนภูมิค่าเฉลี่ยอัตราการระเหยของน้ำรายเดือน (average monthly evaporation from U.S. class "A" pan)

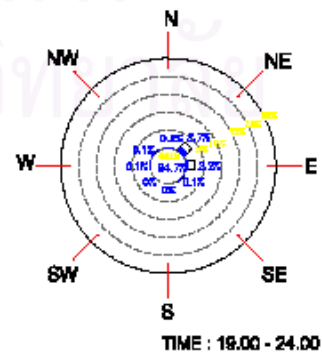
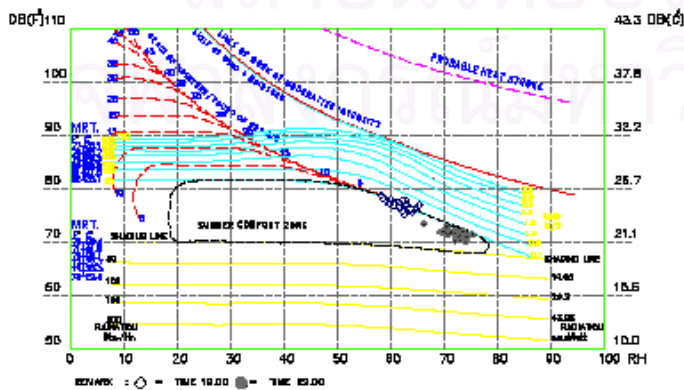
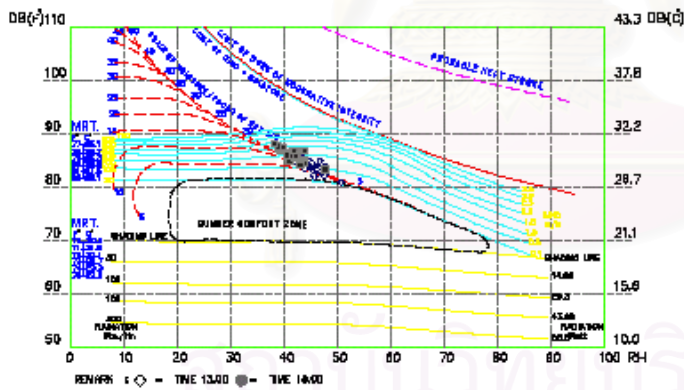
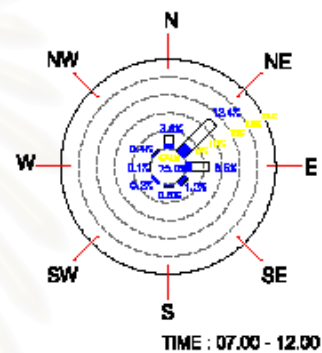
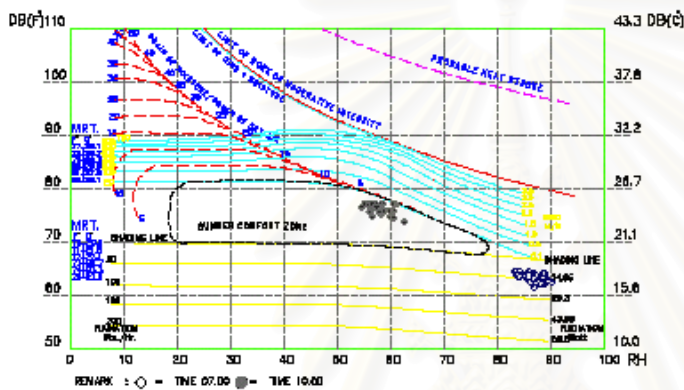
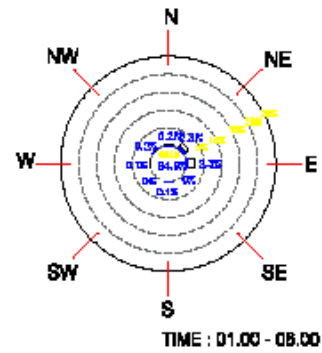
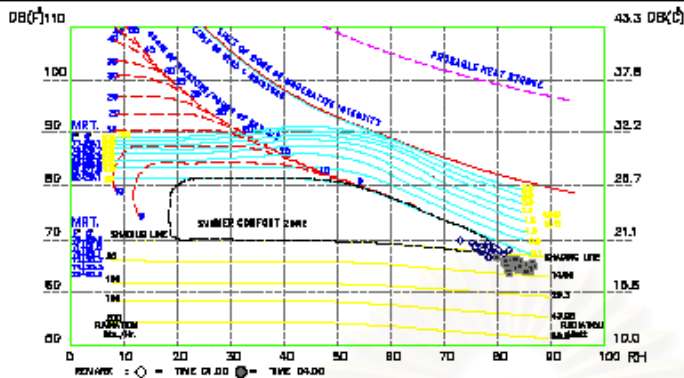
AVERAGE MONTHLY EVAPORATION (mm) from U.S. class "A" pan 1981 - 1996 (2524 - 2541) Station : KHON KAEN



สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

แผนภูมิความสัมพันธ์ระหว่างข้อมูลสภาพอากาศในแผนภูมิไบโอไคลเมตริก (bioclimatic chart) กับแผนภูมิแสดงความเร็วและทิศทางที่เกิดลมรายเดือน (wind rose) แยกตามช่วงเวลา

BIOCLIMATIC CHART & WIND ROSE : JANUARY 1991-1999 (2624-2641) Station : KHON KAEN

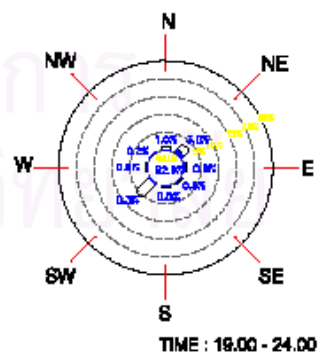
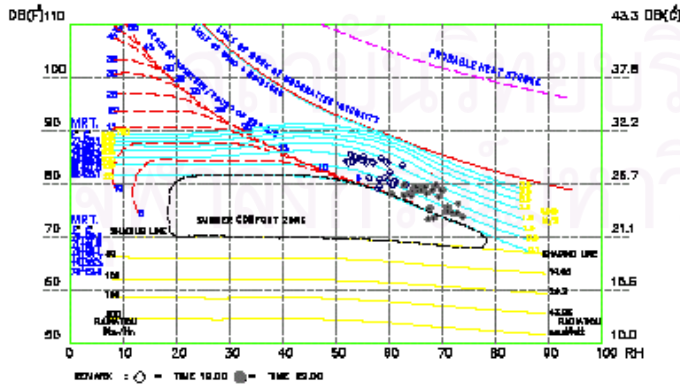
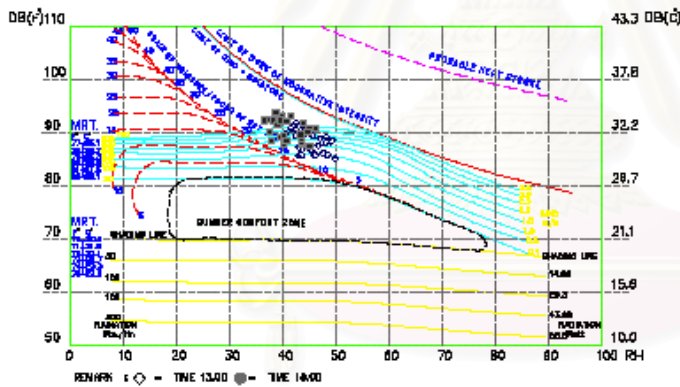
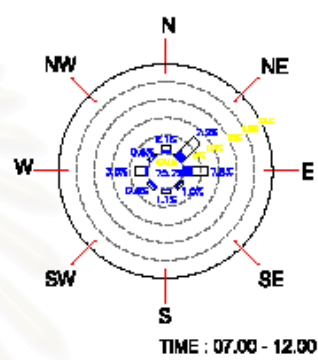
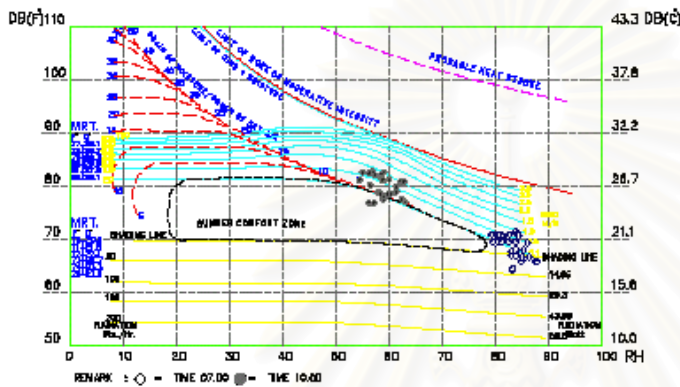
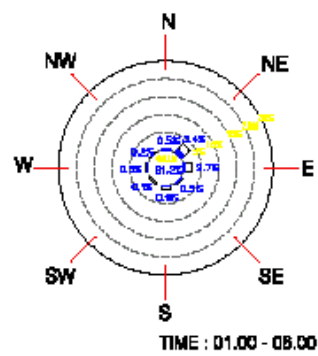
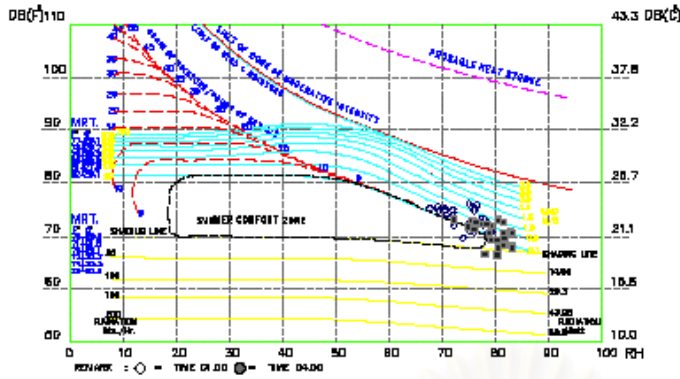


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : FEBRUARY 1991-1999 (2624-2641) Station : KHON KAEN

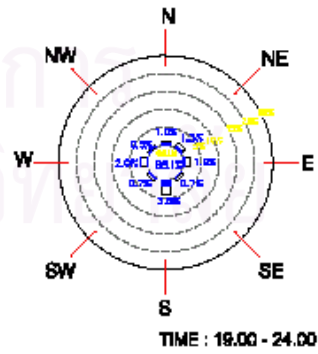
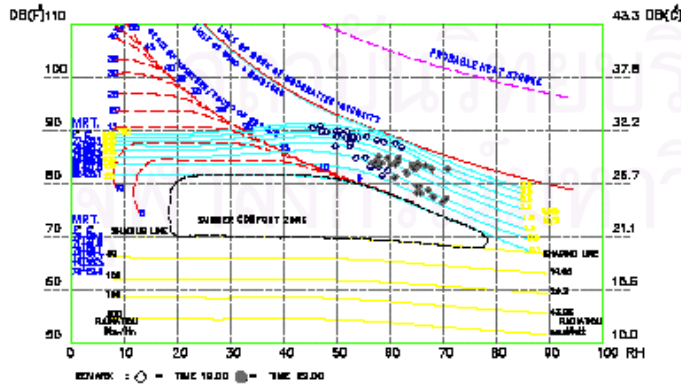
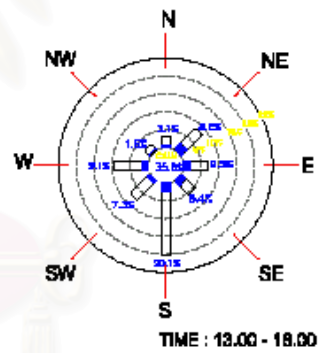
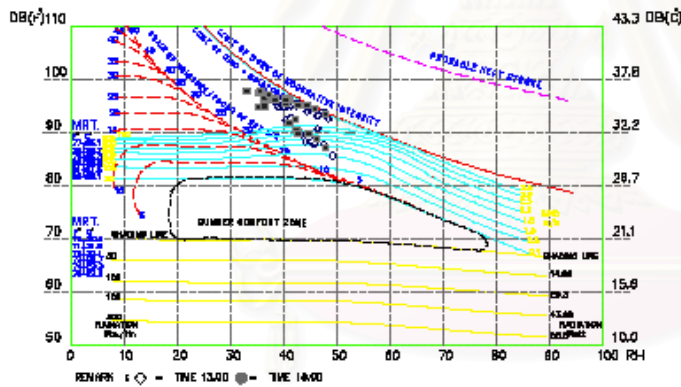
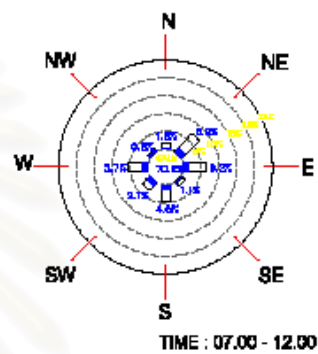
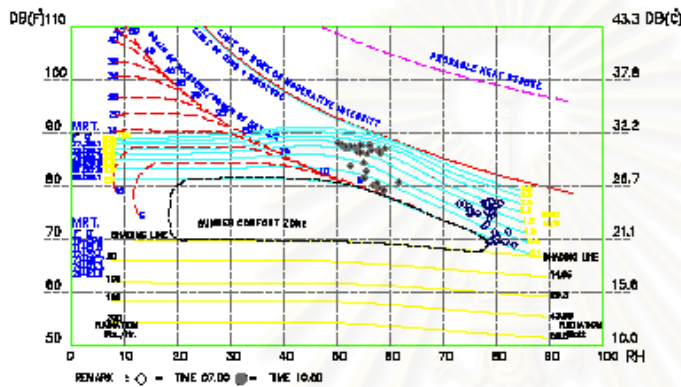
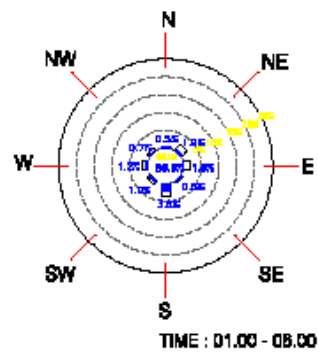
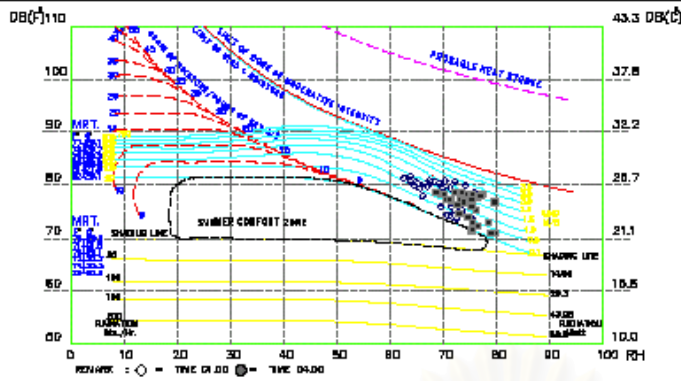


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : MARCH 1991-1999 (2624-2641) Station : KHON KAEN

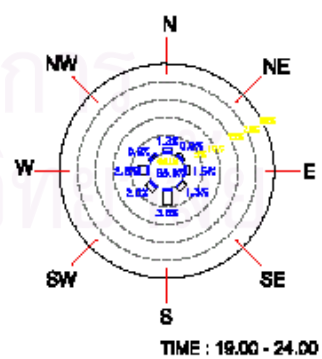
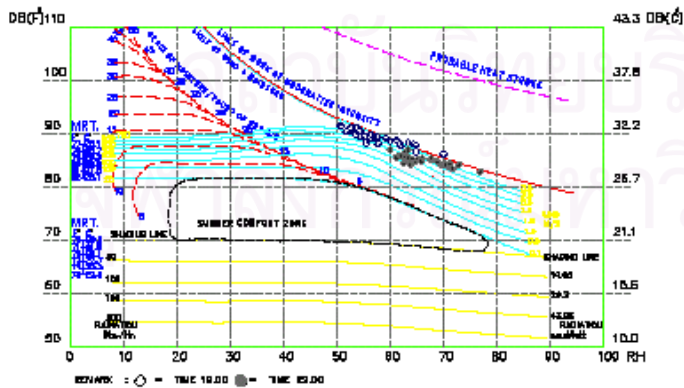
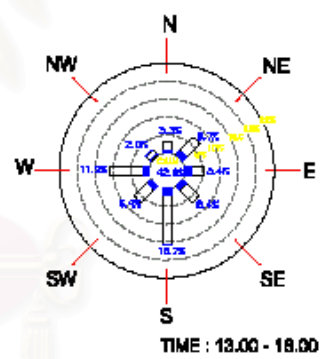
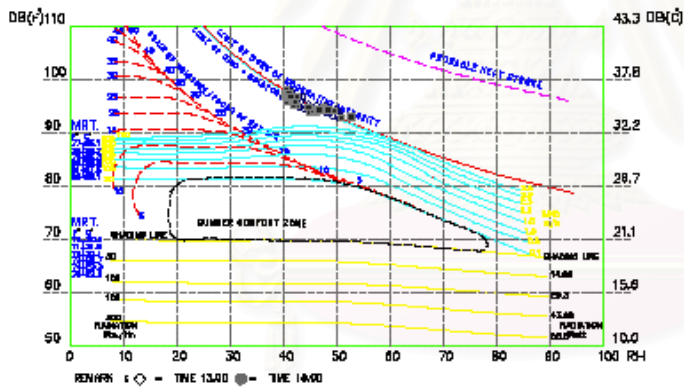
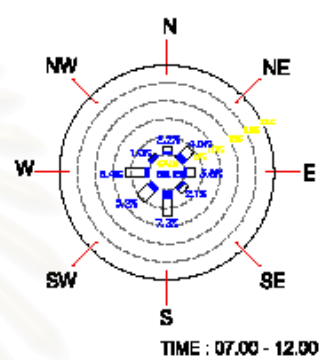
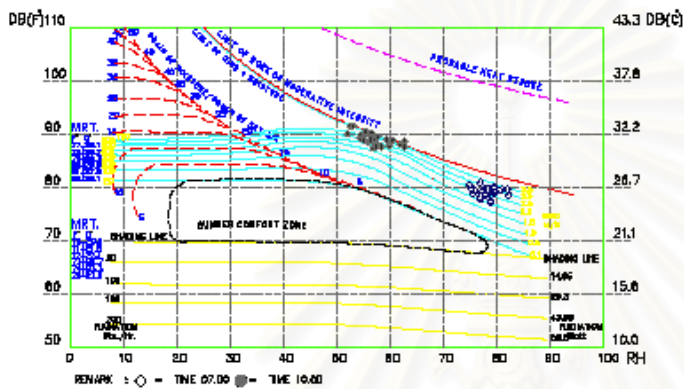
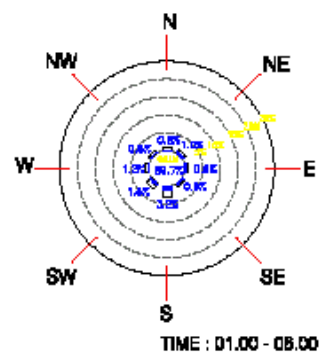
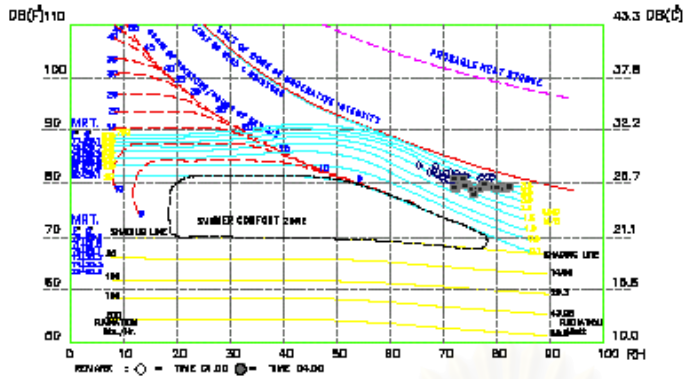


BIOCLIMATIC CHART

WIND ROSE



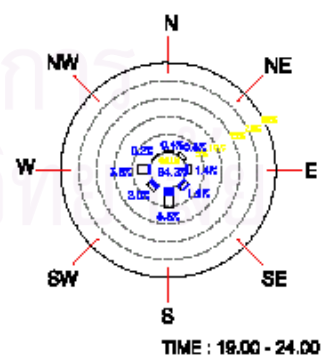
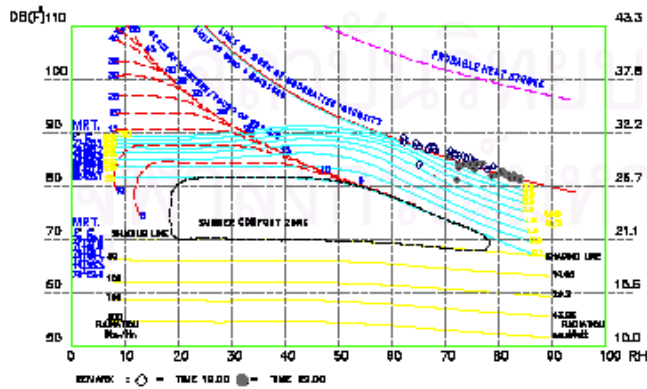
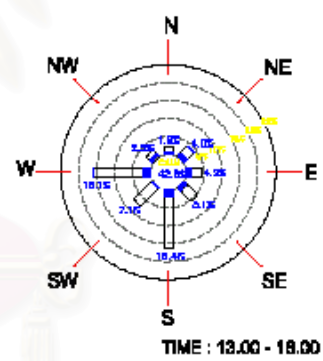
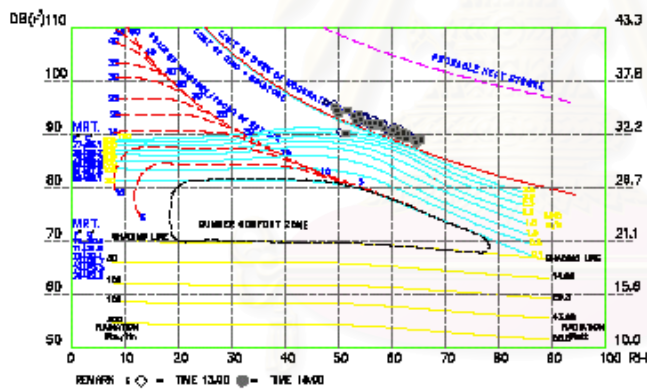
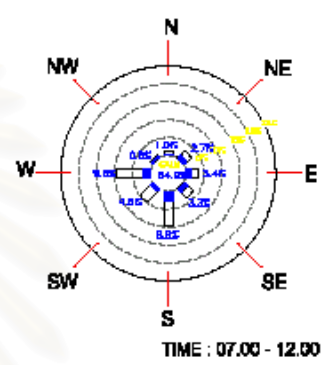
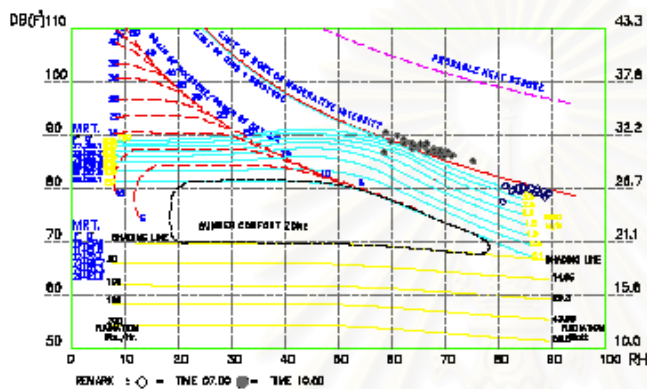
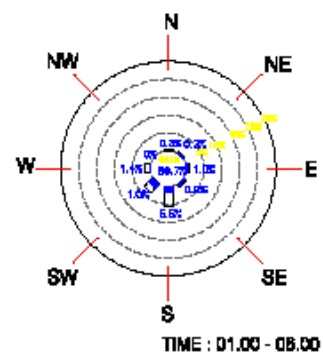
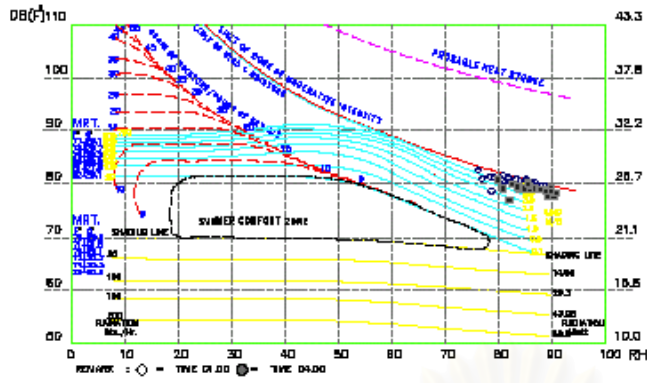
BIOCLIMATIC CHART & WIND ROSE : APRIL 1991-1999 (2624-2641) Station : KHON KAEN



BIOCLIMATIC CHART

WIND ROSE

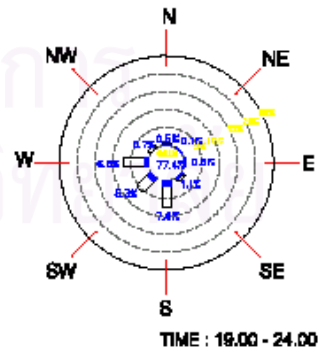
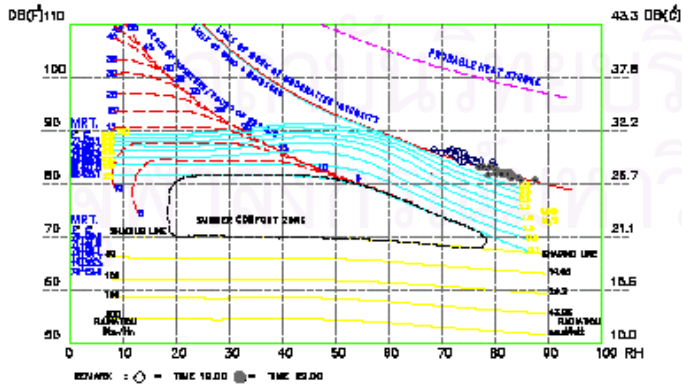
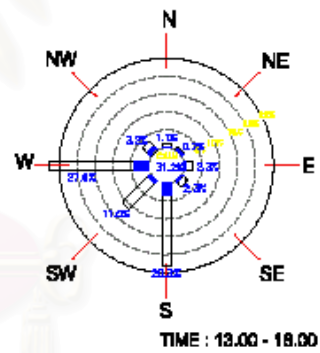
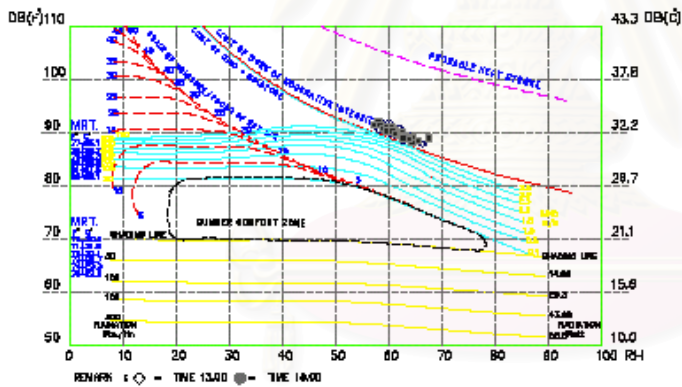
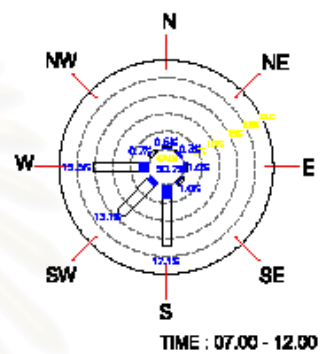
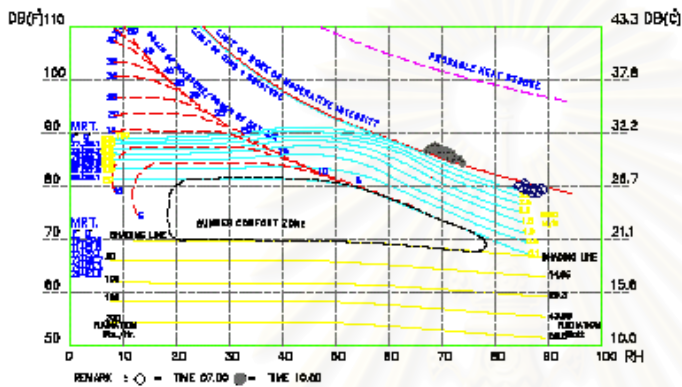
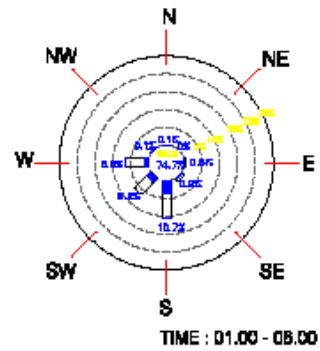
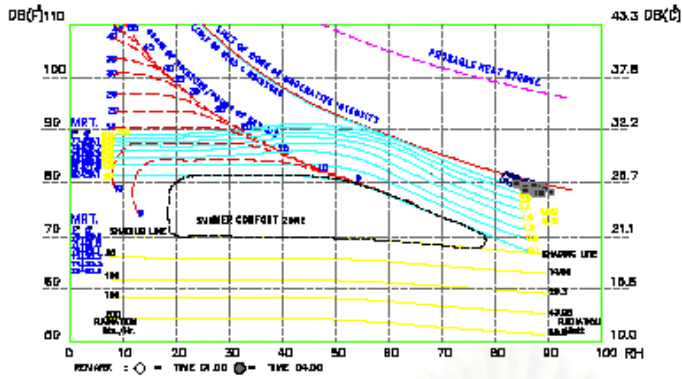
BIOCLIMATIC CHART & WIND ROSE : MAY **1991-1999 (2624-2641)** **Station : KHON KAEN**



BIOCLIMATIC CHART

WIND ROSE

BIOCLIMATIC CHART & WIND ROSE : JUNE 1991-1999 (2624-2641) Station : KHON KAEN

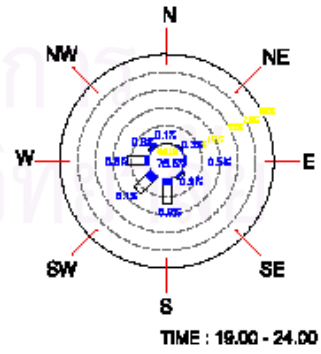
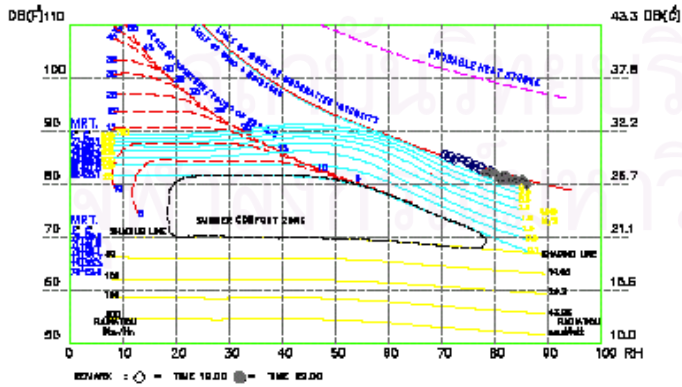
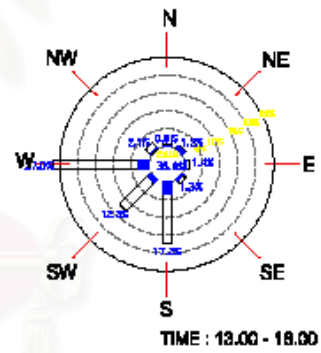
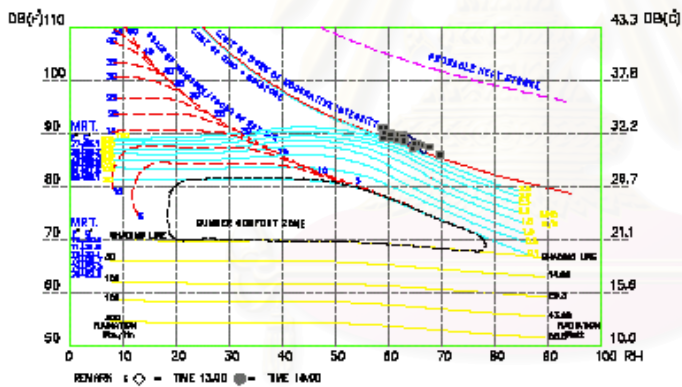
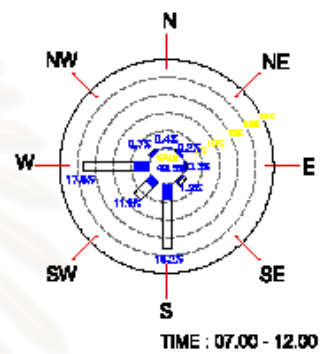
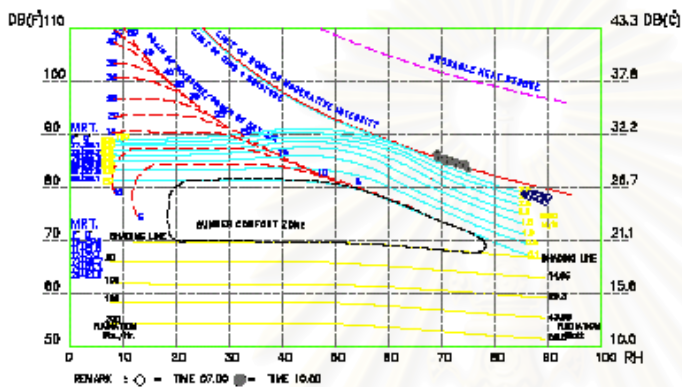
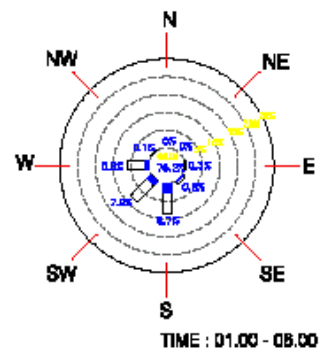
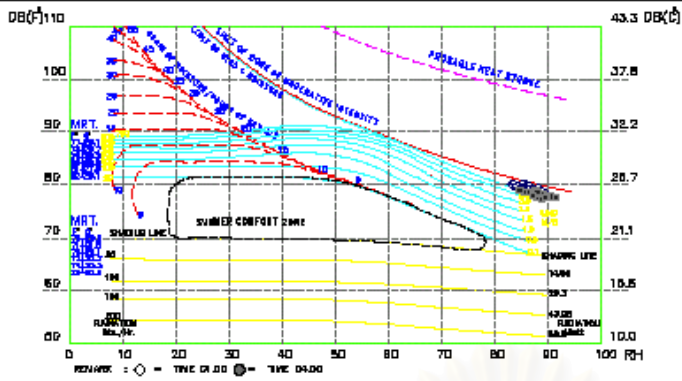


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : JULY 1991-1999 (2624-2641) Station : KHON KAEN

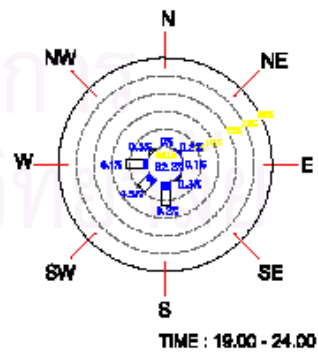
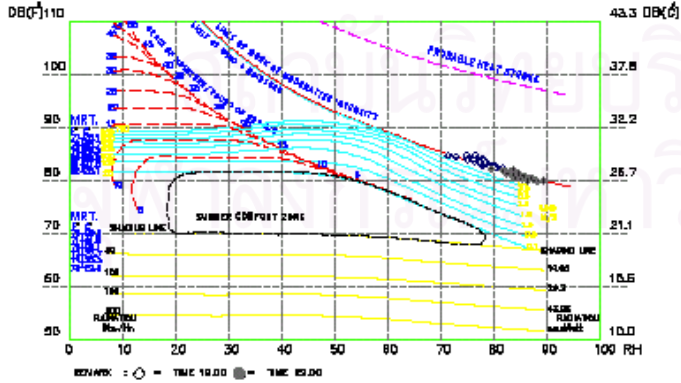
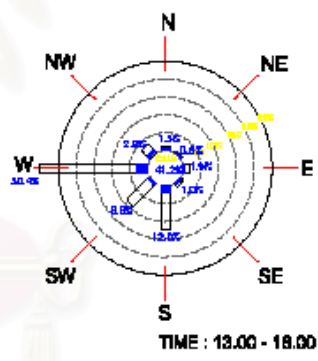
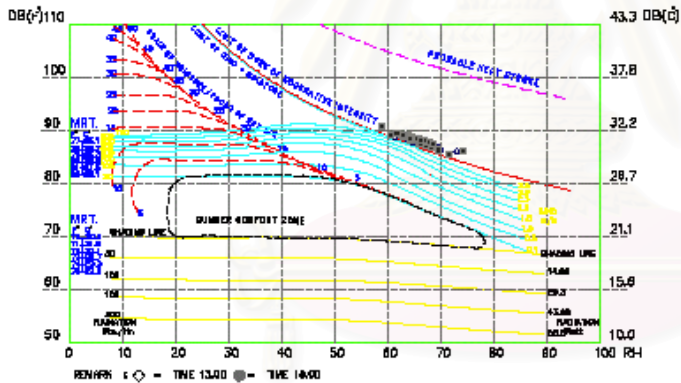
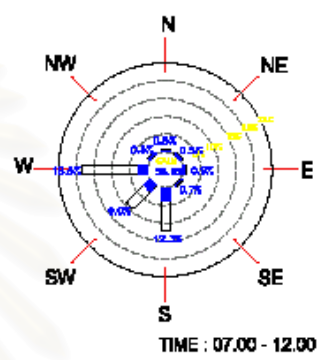
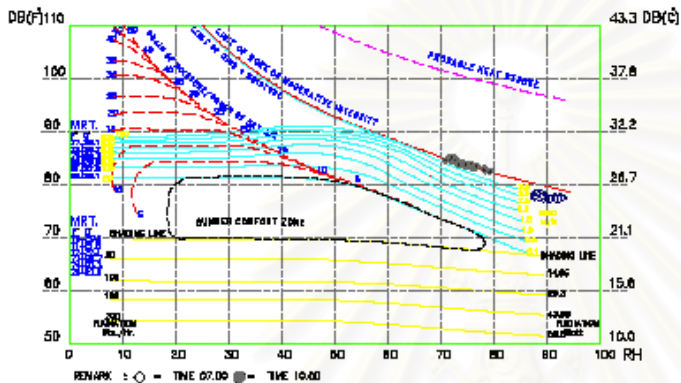
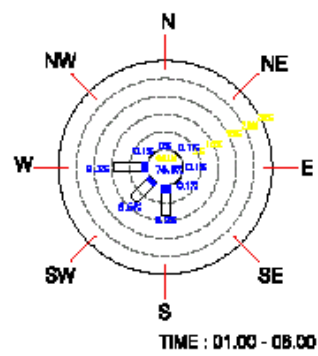
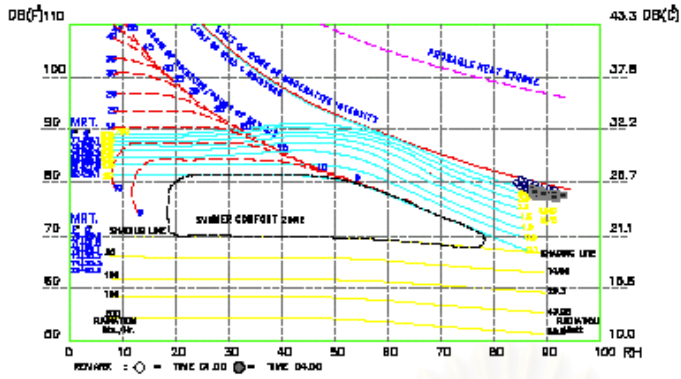


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : AUGUST 1991-1999 (2624-2641) Station : KHON KAEN

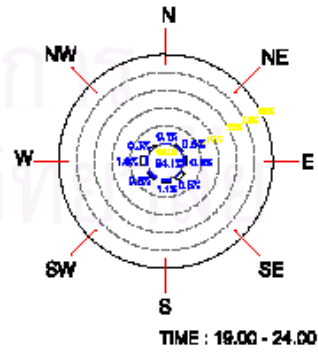
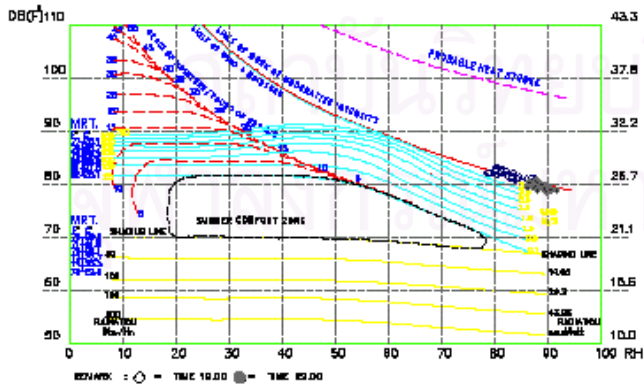
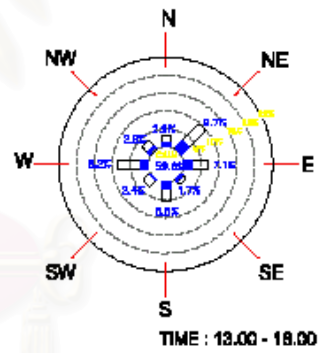
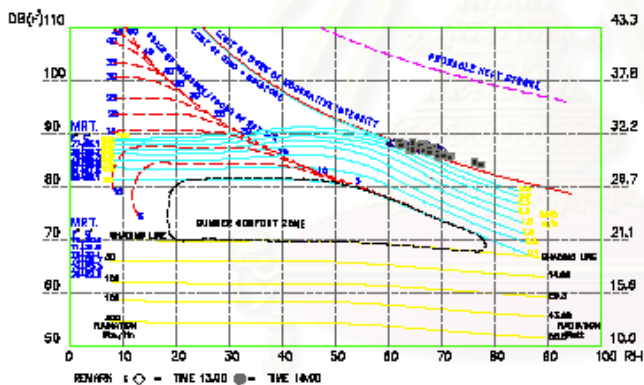
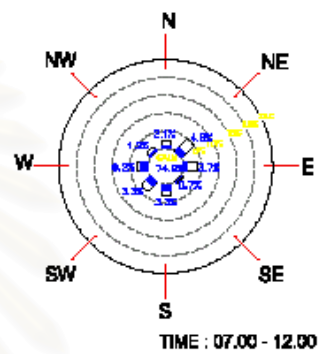
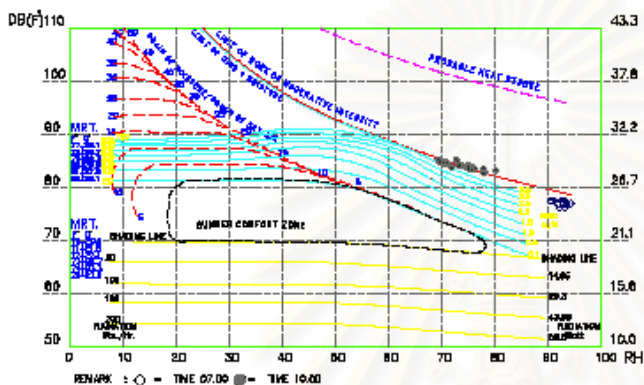
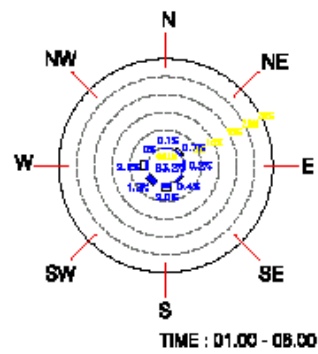
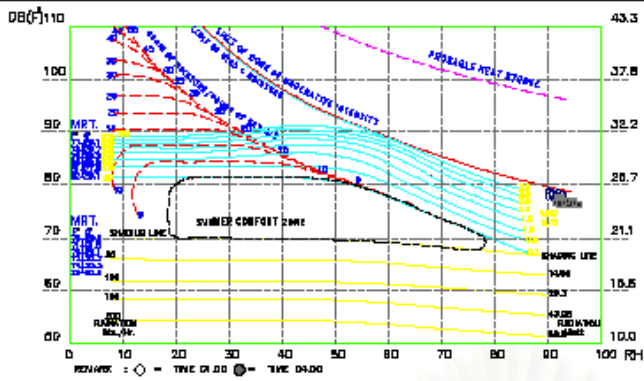


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : SEPTEMBER 1991-1999 (2624-2641) Station : KHON KAEN

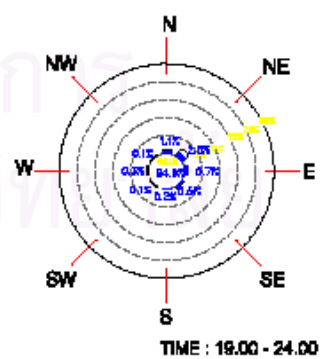
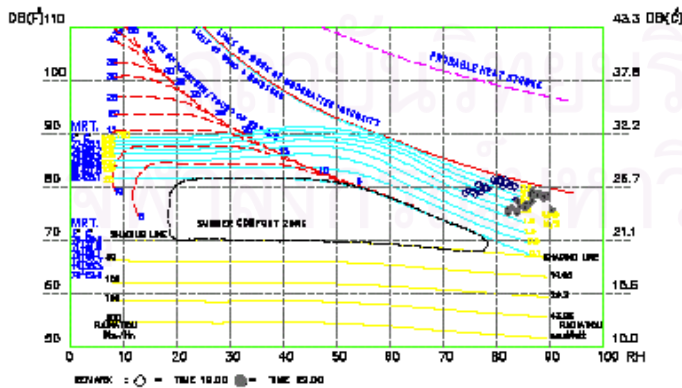
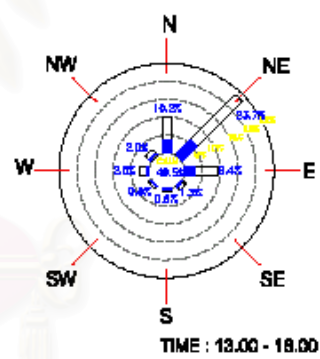
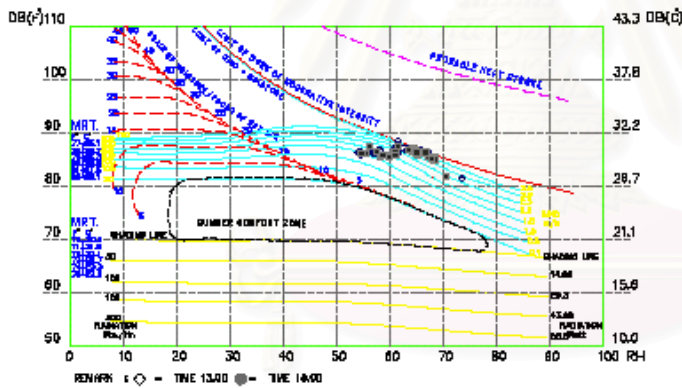
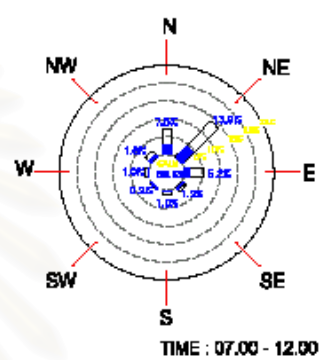
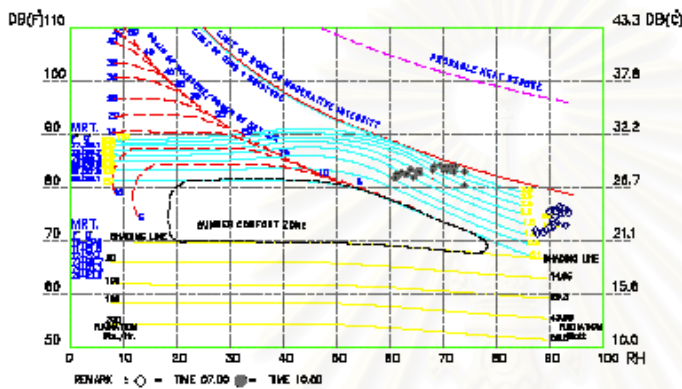
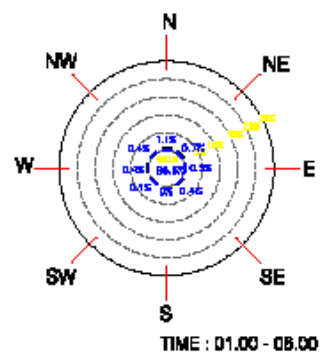
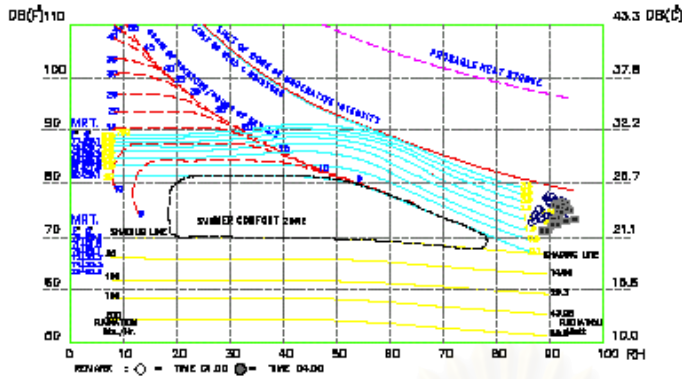


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : OCTOBER 1991-1998 (2624-2641) Station : KHON KAEN

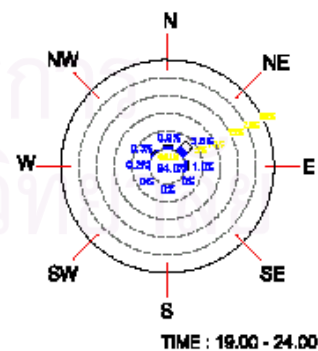
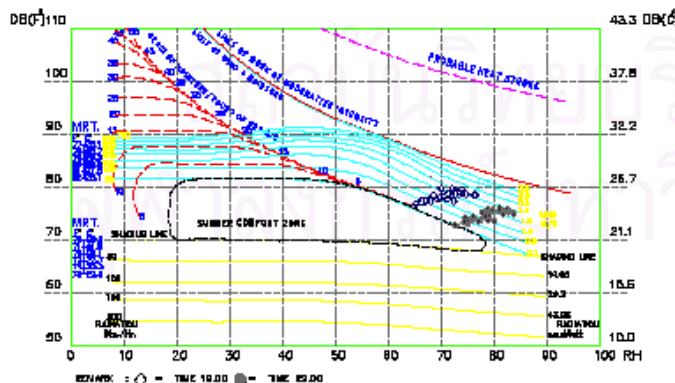
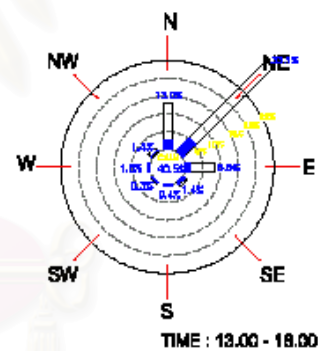
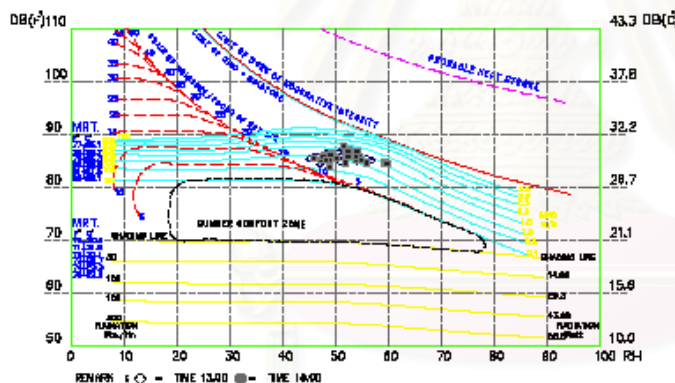
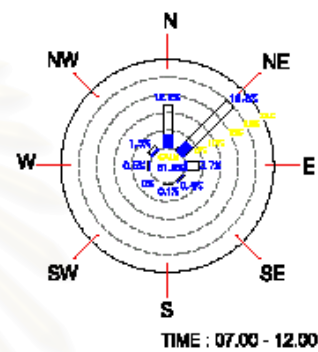
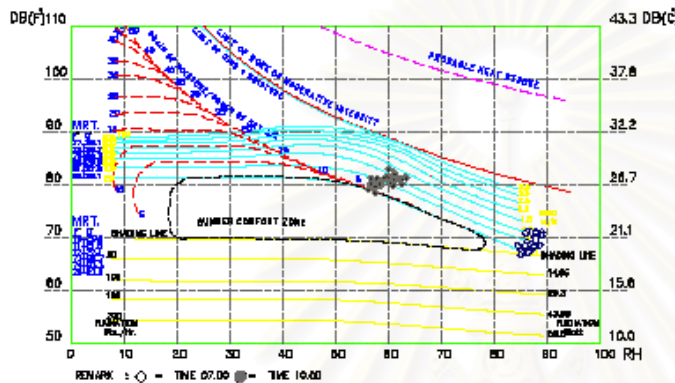
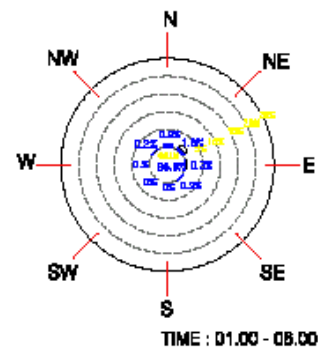
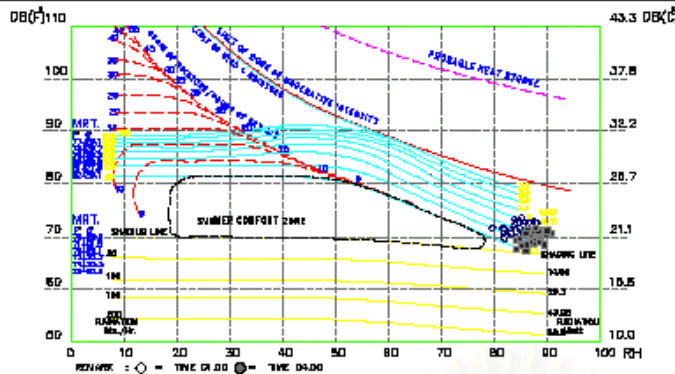


BIOCLIMATIC CHART

WIND ROSE

| | | | | | | | | | | | | | |
|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0% | 1-3 | 4-6 | 7-10 | 11-14 | 15-18 | 19-22 | 23-26 | 27-30 | 31-34 | 35-38 | 39-42 | 43-46 | 47-50 |
| 0.0% | 0.1% | 0.2% | 0.3% | 0.4% | 0.5% | 0.6% | 0.7% | 0.8% | 0.9% | 1.0% | 1.1% | 1.2% | 1.3% |

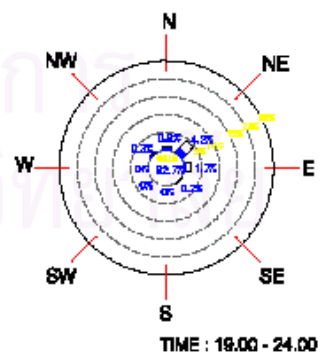
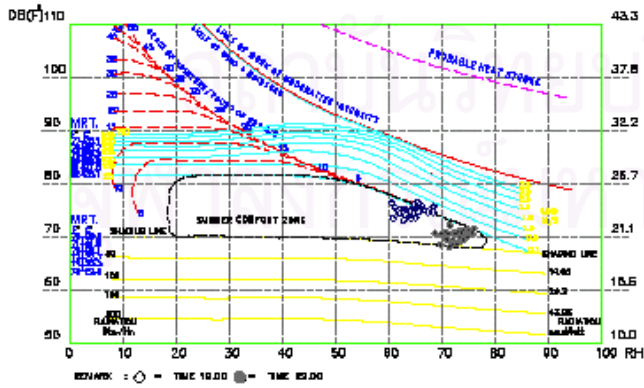
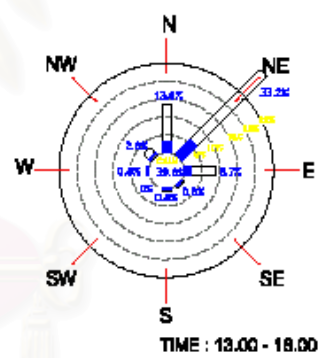
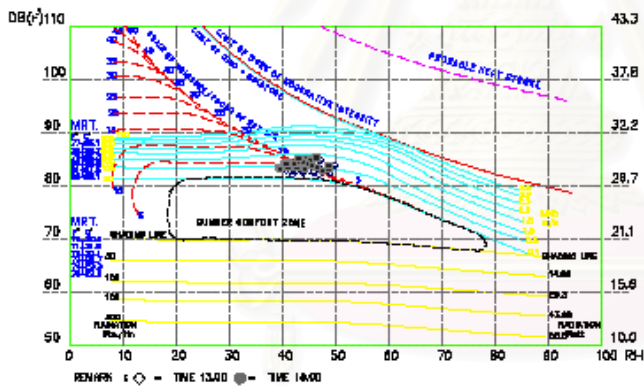
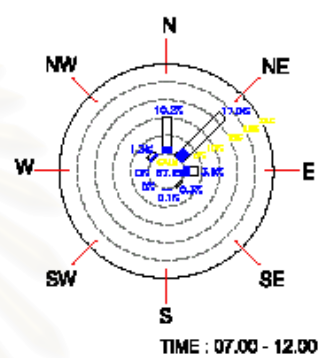
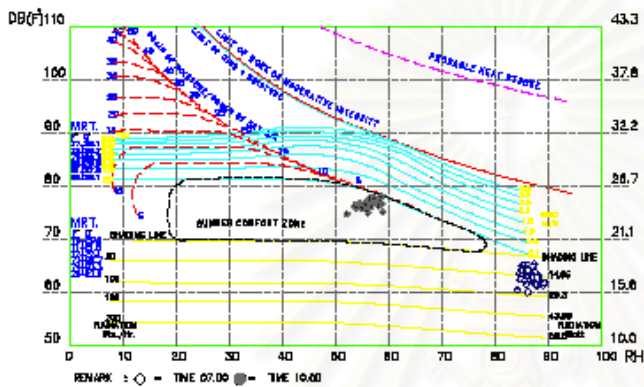
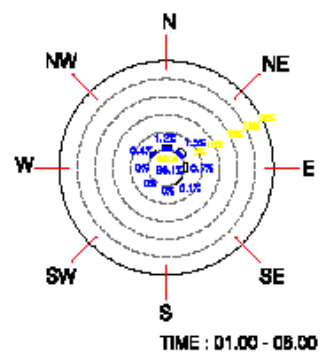
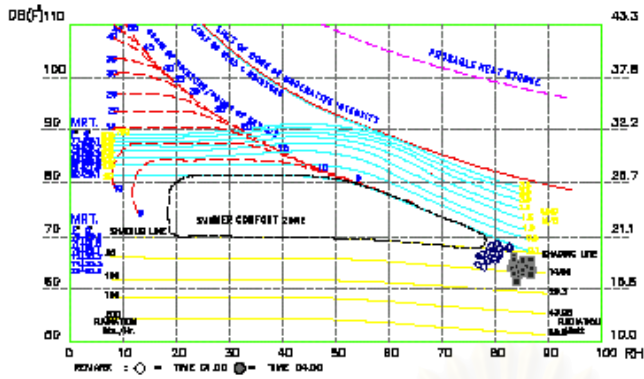
BIOCLIMATIC CHART & WIND ROSE : NOVEMBER 1991-1999 (2624-2641) Station : KHON KAEN



BIOCLIMATIC CHART



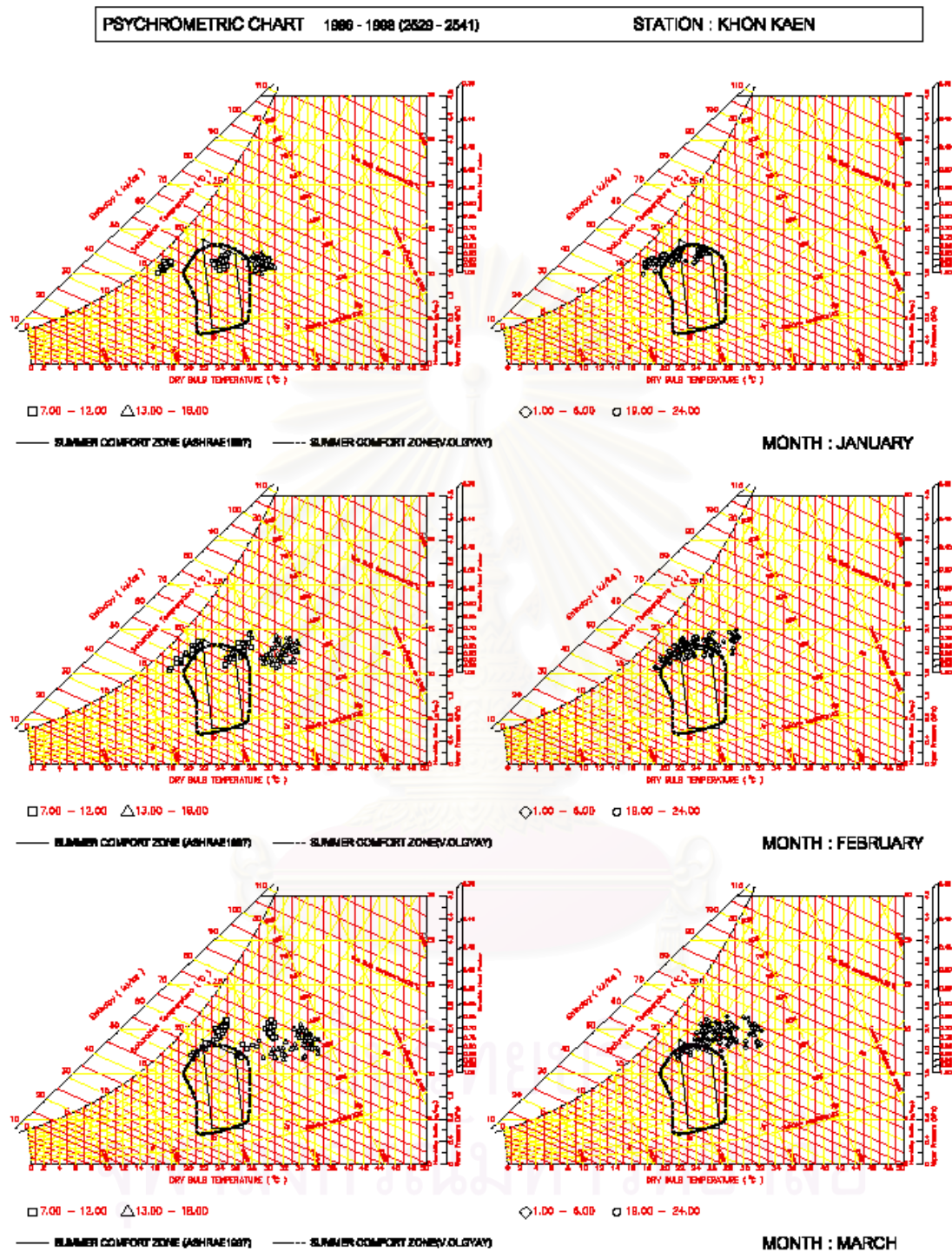
BIOCLIMATIC CHART & WIND ROSE : DECEMBER 1991-1999 (2624-2641) Station : KHON KAEN



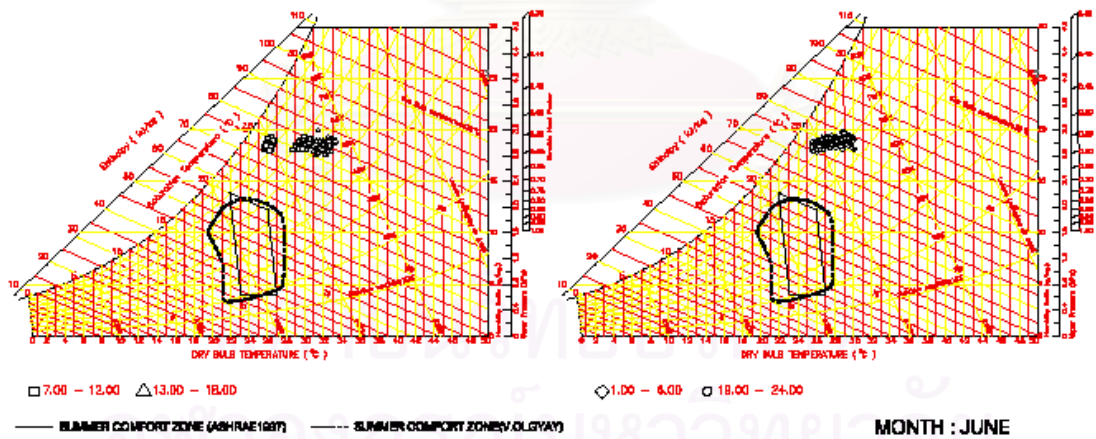
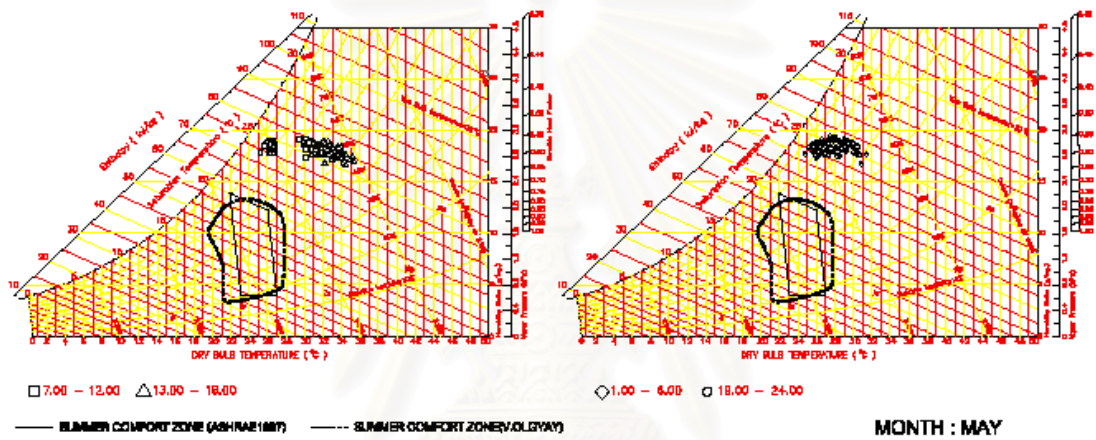
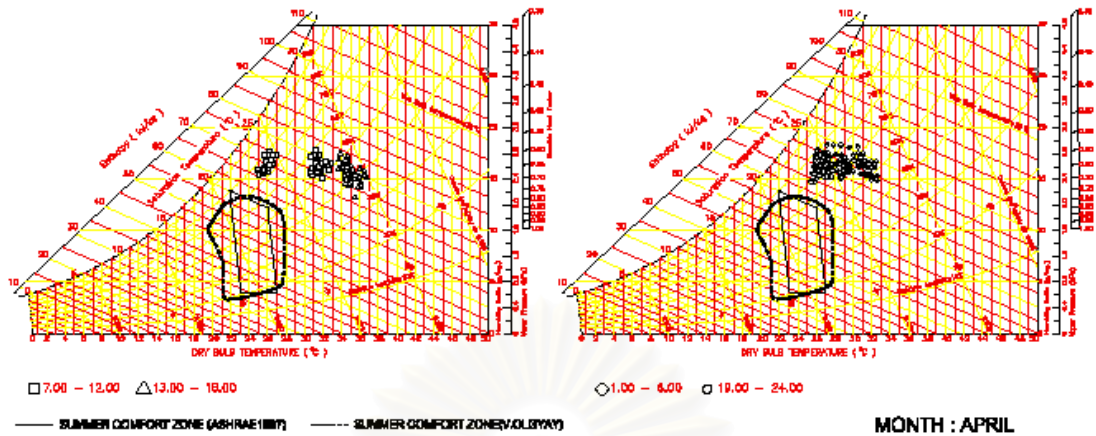
BIOCLIMATIC CHART



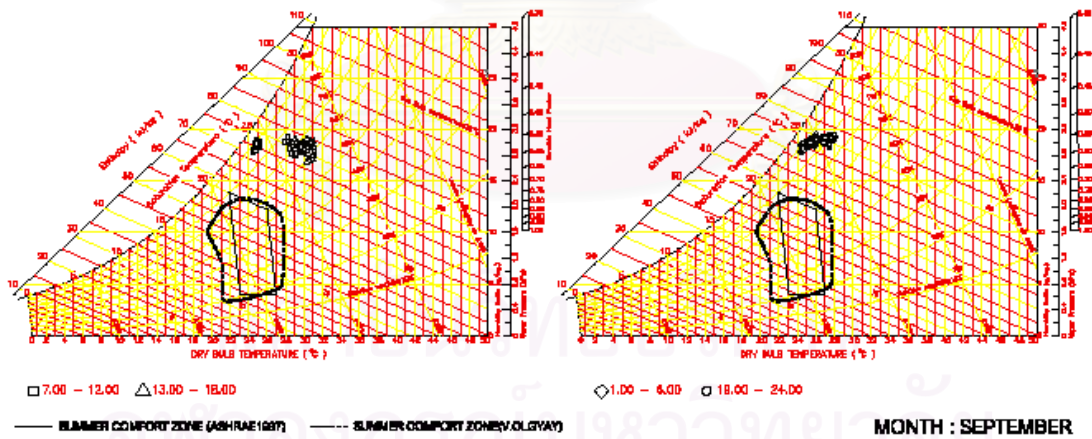
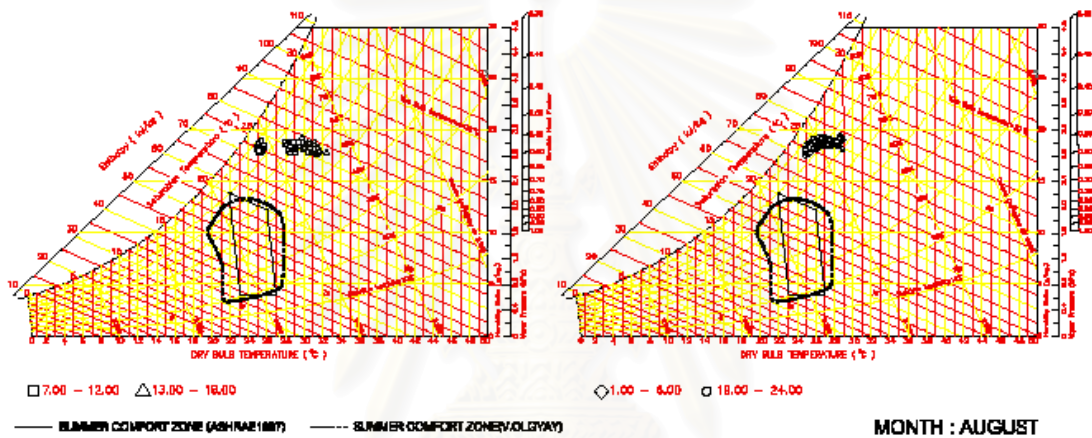
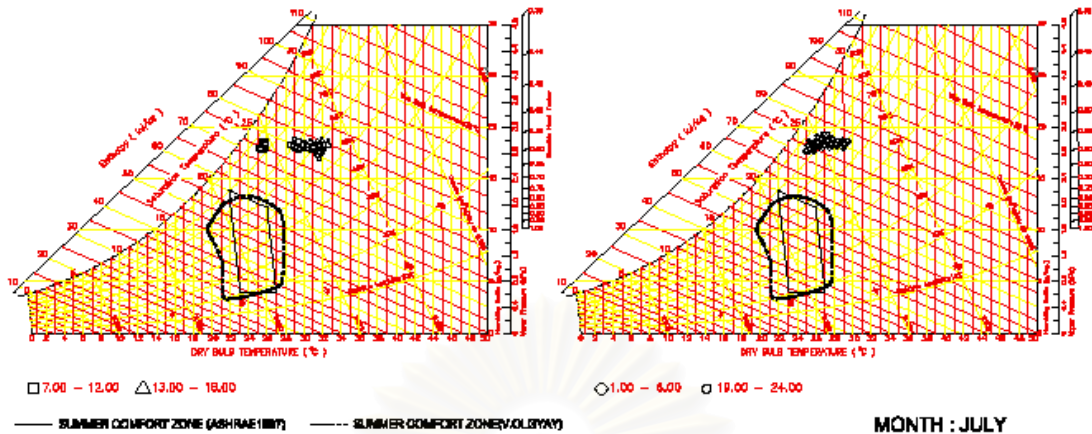
แผนภูมิความสัมพันธ์ระหว่างข้อมูลสภาพอากาศ ในแผนภูมิไซโครเมตริก (psychrometric chart) แยกตามช่วงเวลา



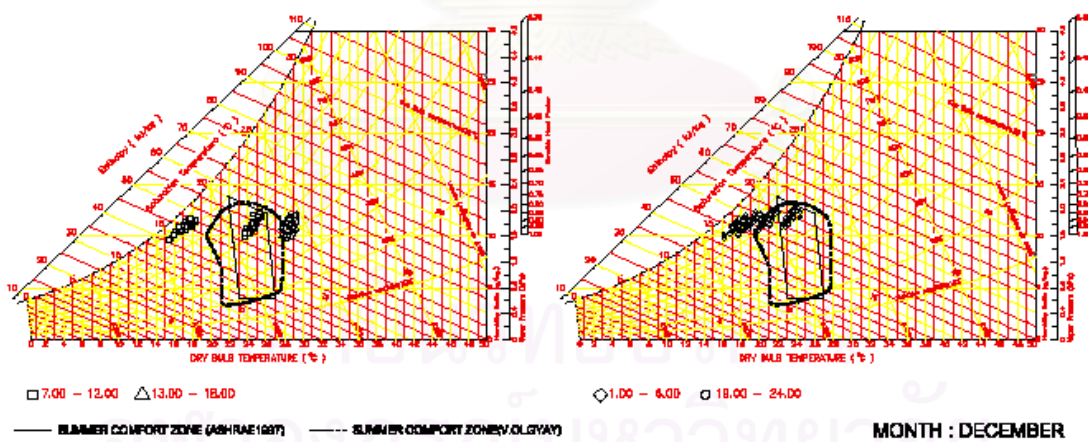
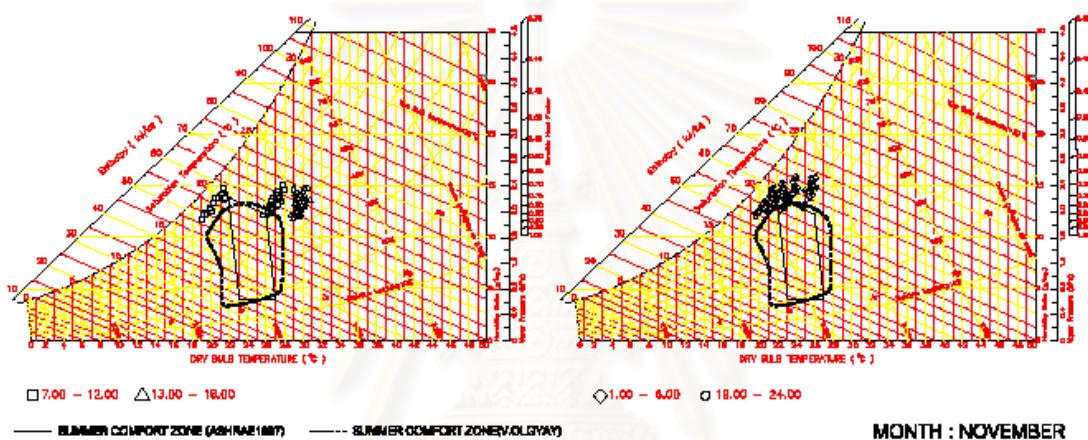
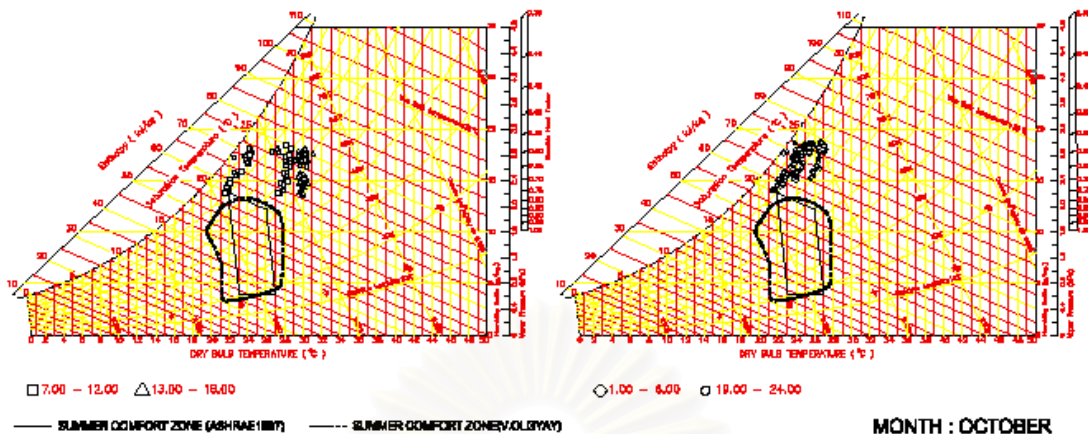
PSYCHROMETRIC CHART 1986 - 1998 (2529 - 2541) STATION : KHON KAEN



PSYCHROMETRIC CHART 1986 - 1998 (2529 - 2541) STATION : KHON KAEN



PSYCHROMETRIC CHART 1986 - 1998 (2529 - 2541) STATION : KHON KAEN



ศูนย์ส่งเสริมเทคโนโลยี
อุตสาหกรรมภาคตะวันออกเฉียงเหนือ

ตารางแสดงผลข้อมูลจำนวนรายชั่วโมงอุณหภูมิกระเปาะแห้ง และค่าเฉลี่ยอุณหภูมิกระเปาะเปียกที่เกิดขึ้น
จำแนกตามช่วงอุณหภูมิกระเปาะแห้ง (bin data) ในแต่ละช่วงเวลา

| ANNUAL BIN-HOUR WEATHER DATA | | | | | | | STATION : KHON KAEN | | |
|--|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|----------------------|
| Hours of occurrence of DB in each bin with MCWB in parentheses | | | | | | | | year : 1997 | |
| Temperature range | Observation hour group | | | | | | Total Observation | MCWB | Temperature range |
| | 01:00 to 04:00 | 05:00 to 08:00 | 09:00 to 12:00 | 13:00 to 16:00 | 17:00 to 20:00 | 21:00 to 24:00 | | | |
| °C | Annual | | | | | | | °F | |
| | DB MCWB | DB MCWB | DB MCWB | DB MCWB | DB MCWB | DB MCWB | Total MCWB | | |
| 40.6 / 42.8 | | | | | | | | 105 / 109 | |
| 37.8 / 40.0 | | | | 30 (26.0) | | | 30 (26.0) | 100 / 104 | |
| 35.0 / 37.2 | | | 35 (25.6) | 176 (25.3) | 50 (25.9) | | 261 (25.6) | 95 / 99 | |
| 32.2 / 34.4 | | | 168 (25.2) | 504 (24.9) | 184 (25.0) | 17 (24.8) | 873 (25.0) | 90 / 94 | |
| 29.4 / 31.7 | 22 (24.5) | 17 (24.7) | 487 (24.3) | 487 (24.3) | 455 (24.6) | 149 (24.8) | 1,617 (24.5) | 85 / 89 | |
| 26.7 / 28.9 | 317 (24.4) | 252 (24.2) | 457 (23.4) | 199 (23.2) | 487 (23.8) | 500 (24.1) | 2,212 (23.9) | 80 / 84 | |
| 23.9 / 26.1 | 596 (23.1) | 635 (23.0) | 211 (22.3) | 53 (22.2) | 218 (22.7) | 521 (23.0) | 2,234 (22.7) | 75 / 79 | |
| 21.1 / 23.3 | 303 (21.1) | 273 (20.7) | 84 (19.5) | 10 (19.5) | 60 (20.1) | 190 (20.3) | 920 (20.2) | 70 / 74 | |
| 18.3 / 20.6 | 159 (18.3) | 187 (18.1) | 18 (16.8) | | 5 (16.4) | 76 (17.5) | 445 (17.4) | 65 / 69 | |
| 15.6 / 17.8 | 58 (15.8) | 82 (15.3) | | | | 6 (15.2) | 146 (15.5) | 60 / 64 | |
| 12.8 / 15.0 | 5 (13.3) | 13 (13.5) | | | | | 18 (13.4) | 55 / 59 | |
| 10.0 / 12.2 | | | | | | | | 50 / 54 | |
| 7.2 / 9.4 | | | | | | | | 45 / 49 | |
| 4.4 / 6.7 | | | | | | | | 40 / 44 | |
| 1.7 / 3.9 | | | | | | | | 35 / 39 | |

NOTE: MCWB = Mean coincident wet-bulb temperature (number in parentheses) °C

Temperature (Celsius deg.) C = (deg.F-32) * 5 / 9

สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

| BIN-HOUR WEATHER DATA Hours of occurrence of DB in each bin with MCWB in parentheses | | | | | | | | | | | | | | | | | STATION : KHON KAEN | | | | | | |
|--|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------|------------|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------|-----------|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Temperature range °C | Observation hour group | | | | | | Tidal Observation | MCWB | Observation hour group | | | | | | Tidal Observation | MCWB | Temperature range °F | | | | | | |
| | 01:00 to 04:00 | 05:00 to 08:00 | 09:00 to 12:00 | 13:00 to 16:00 | 17:00 to 20:00 | 21:00 to 24:00 | | | 01:00 to 04:00 | 05:00 to 08:00 | 09:00 to 12:00 | 13:00 to 16:00 | 17:00 to 20:00 | 21:00 to 24:00 | | | | 01:00 to 04:00 | 05:00 to 08:00 | 09:00 to 12:00 | 13:00 to 16:00 | 17:00 to 20:00 | 21:00 to 24:00 |
| | July | | | | | | | | August | | | | | | | | | September | | | | | |
| 40.6 / 142.8 | | | | | | | | | | | | | | | | | | | 105 / 109 | | | | |
| 37.8 / 140.0 | | | | | | | | | | | | | | | | | | | 100 / 104 | | | | |
| 35.0 / 37.2 | | | | | | | | | | 2 (26.7) | | | | | | | | 2 (26.7) | 95 / 99 | | | | |
| 32.2 / 34.4 | | | 3 (25.5) | 38 (25.6) | 9 (25.6) | | | | | 8 (25.6) | 59 (25.9) | 13 (25.8) | | | | 7 (26.6) | 41 (26.0) | 4 (25.6) | 50 (26.1) | 90 / 94 | | | |
| 29.4 / 31.7 | | | | 90 (25.2) | 68 (25.6) | 64 (25.5) | 12 (25.1) | 194 (25.4) | | 57 (25.4) | 45 (25.6) | 64 (25.3) | 2 (34.9) | 168 (25.3) | | 48 (25.5) | 46 (25.2) | 40 (25.7) | 2 (25.1) | 136 (25.4) | 85 / 89 | | |
| 26.7 / 28.9 | 46 (24.4) | 32 (24.0) | 97 (24.8) | 14 (25.1) | 42 (25.3) | 64 (25.1) | 277 (24.8) | 90 (24.4) | 33 (24.4) | 54 (24.9) | 12 (25.1) | 39 (25.3) | 90 (24.9) | 284 (24.9) | 22 (24.9) | 15 (24.8) | 49 (24.5) | 17 (24.8) | 46 (24.9) | 63 (25.2) | 219 (24.9) | 80 / 84 | |
| 23.9 / 26.1 | 76 (24.1) | 92 (24.0) | 14 (24.3) | 4 (24.2) | 9 (24.6) | 26 (24.4) | 223 (24.3) | 74 (24.2) | 91 (24.1) | 5 (25.1) | 6 (25.1) | 6 (25.2) | 26 (24.6) | 210 (24.7) | 89 (23.9) | 91 (23.7) | 14 (22.9) | 14 (22.2) | 26 (24.0) | 46 (23.9) | 200 (23.6) | 75 / 79 | |
| 21.1 / 23.3 | | | | | | | | | | | | | | 9 (21.9) | 14 (21.8) | 2 (21.5) | | | 2 (21.5) | 4 (21.9) | 31 (21.7) | 70 / 74 | |
| 18.3 / 20.6 | | | | | | | | | | | | | | | | | | | | | | 65 / 69 | |
| 15.6 / 17.8 | | | | | | | | | | | | | | | | | | | | | | 60 / 64 | |
| 12.8 / 15.0 | | | | | | | | | | | | | | | | | | | | | | 55 / 59 | |
| 10.0 / 12.2 | | | | | | | | | | | | | | | | | | | | | | 50 / 54 | |
| 7.2 / 9.4 | | | | | | | | | | | | | | | | | | | | | | 45 / 49 | |
| 4.4 / 6.7 | | | | | | | | | | | | | | | | | | | | | | 40 / 44 | |
| 1.7 / 3.9 | | | | | | | | | | | | | | | | | | | | | | 35 / 39 | |
| 40.6 / 142.8 | October | | | | | | | | November | | | | | | | | December | | | | | | |
| 37.8 / 140.0 | | | | | | | | | | | | | | | | | | | | | | 105 / 109 | |
| 35.0 / 37.2 | | | | | | | | | | | | | | | | | | | | | | 100 / 104 | |
| 32.2 / 34.4 | | | | | | | | | | | | | | | | | | | | | | 95 / 99 | |
| 29.4 / 31.7 | | | 7 (26.6) | 34 (26.1) | 1 (26.7) | | | | | | 18 (24.5) | 37 (24.5) | 6 (24.2) | 62 (24.4) | | 4 (22.9) | 57 (22.6) | 4 (23.7) | | 66 (23.7) | | 90 / 94 | |
| 26.7 / 28.9 | 5 (25.4) | 15 (24.9) | 40 (24.3) | 21 (24.5) | 66 (25.2) | 36 (25.3) | 184 (24.9) | 2 (24.4) | 1 (23.9) | 38 (22.2) | 22 (20.7) | 51 (23.0) | 12 (23.6) | 126 (23.0) | | | | 42 (21.9) | 21 (20.1) | 52 (22.1) | 6 (22.6) | 121 (21.7) | 80 / 84 |
| 23.9 / 26.1 | 97 (24.3) | 92 (24.0) | 15 (23.3) | 4 (23.6) | 20 (23.2) | 62 (24.1) | 310 (23.8) | 27 (22.2) | 25 (22.2) | 23 (19.9) | 4 (19.1) | 27 (21.2) | 67 (22.2) | 173 (21.1) | 38 (21.6) | 9 (21.2) | 33 (20.1) | | 26 (20.8) | 95 (21.3) | 150 (21.0) | 75 / 79 | |
| 21.1 / 23.3 | 20 (21.5) | 14 (20.7) | | | 4 (22.3) | 7 (20.9) | 45 (21.4) | 57 (20.8) | 60 (20.5) | 6 (18.3) | 4 (19.3) | 16 (19.7) | 33 (19.7) | 172 (19.7) | 67 (19.9) | 51 (19.9) | 9 (18.2) | | 5 (18.4) | 52 (19.6) | 164 (19.3) | 70 / 74 | |
| 18.3 / 20.6 | 2 (19.4) | 3 (18.6) | | | | | 5 (19.0) | 23 (18.0) | 23 (17.6) | 1 (18.5) | | | 6 (18.6) | 75 (18.2) | 29 (18.0) | 45 (18.4) | 3 (16.1) | | | 10 (17.0) | 67 (17.4) | 65 / 69 | |
| 15.6 / 17.8 | | | | | | | | 1 (17.1) | 1 (15.0) | | | | 2 (16.1) | 10 (15.3) | 17 (15.2) | | | | | | 27 (15.3) | 60 / 64 | |
| 12.8 / 15.0 | | | | | | | | | | | | | | | 1 (14.2) | | | | | | 1 (14.2) | 55 / 59 | |
| 10.0 / 12.2 | | | | | | | | | | | | | | | | | | | | | | 50 / 54 | |
| 7.2 / 9.4 | | | | | | | | | | | | | | | | | | | | | | 45 / 49 | |
| 4.4 / 6.7 | | | | | | | | | | | | | | | | | | | | | | 40 / 44 | |
| 1.7 / 3.9 | | | | | | | | | | | | | | | | | | | | | | 35 / 39 | |

NOTE : MCWB = Mean coincident wet-bulb temperature (number in parentheses)°C

Temperature (Celsius deg.) C = (deg F-32) * 5 / 9



ตารางแสดงผลข้อมูลปริมาณองศาชั่วโมง การทำความร้อนและการทำความเย็น (degree hours and hours of occurrence)

| DEGREE HOURS & HOURS OF OCCURRENCE | | | | | | Station : KHON KEAN | | |
|------------------------------------|------|--------------------------|--------------------------------------|---|----------|--------------------------------------|---|------------|
| | | | | | | YEARS : 1981 - 1998 (2524-2541) | | |
| TEMPERATURE | | MEAN TEMP.DEGREE (°F) | NO. OF HOURS BELOW TEMPERATURE | NO. OF DEGREE HOURS OF HEATING BELOW TEMPERATURE | | NO. OF HOURS ABOVE TEMPERATURE | NO. OF DEGREE HOURS OF COOLING ABOVE TEMPERATURE | |
| Degree | | HOURS OF OCCURRENCE | | °F | °C | | °F | °C |
| °F | °C | | | | | | | |
| 35 | 1.7 | (37.5) | - | - | - | 8,760.00 | 401,196.40 | 222,863.45 |
| 36 | 2.2 | | - | - | - | 8,760.00 | 392,436.40 | 217,801.65 |
| 37 | 2.8 | 0 | - | - | - | 8,760.00 | 383,676.40 | 212,939.85 |
| 38 | 3.3 | | - | - | - | 8,760.00 | 374,916.40 | 208,078.05 |
| 39 | 3.9 | | - | - | - | 8,760.00 | 366,156.40 | 203,216.25 |
| 40 | 4.4 | (42.5) | - | - | - | 8,760.00 | 357,396.40 | 198,354.45 |
| 41 | 5.0 | | - | - | - | 8,760.00 | 348,636.40 | 193,492.65 |
| 42 | 5.6 | 0 | - | - | - | 8,760.00 | 339,876.40 | 188,630.85 |
| 43 | 6.1 | | - | - | - | 8,760.00 | 331,116.40 | 183,769.05 |
| 44 | 6.7 | | - | - | - | 8,760.00 | 322,356.40 | 178,907.25 |
| 45 | 7.2 | (47.5) | - | - | - | 8,760.00 | 313,596.40 | 174,045.45 |
| 46 | 7.8 | | - | - | - | 8,760.00 | 304,836.40 | 169,183.65 |
| 47 | 8.3 | 0 | - | - | - | 8,760.00 | 296,076.40 | 164,321.85 |
| 48 | 8.9 | | - | - | - | 8,760.00 | 287,316.40 | 159,460.05 |
| 49 | 9.4 | | - | - | - | 8,760.00 | 278,556.40 | 154,598.25 |
| 50 | 10.0 | 52.5 | - | - | - | 8,760.00 | 269,796.40 | 149,736.45 |
| 51 | 10.6 | | - | - | - | 8,760.00 | 261,036.40 | 144,874.65 |
| 52 | 11.1 | 0 | - | - | - | 8,760.00 | 252,276.40 | 140,012.85 |
| 53 | 11.7 | | - | - | - | 8,760.00 | 243,516.40 | 135,151.05 |
| 54 | 12.2 | | - | - | - | 8,760.00 | 234,756.40 | 130,289.25 |
| 55 | 12.8 | (57.5) | - | - | - | 8,760.00 | 225,996.40 | 125,427.45 |
| 56 | 13.3 | | - | - | - | 8,760.00 | 217,236.40 | 120,565.65 |
| 57 | 13.9 | 0 | - | - | - | 8,760.00 | 208,476.40 | 115,703.85 |
| 58 | 14.4 | | - | - | - | 8,760.00 | 199,716.40 | 110,842.05 |
| 59 | 15.0 | | - | - | - | 8,760.00 | 190,956.40 | 105,980.25 |
| 60 | 15.6 | (62.5) | 54.60 | - | - | 8,760.00 | 182,196.40 | 101,118.45 |
| 61 | 16.1 | | 109.20 | 136.50 | 75.76 | 8,705.40 | 173,571.90 | 96,332.40 |
| 62 | 16.7 | 273 | 163.80 | 273.00 | 151.52 | 8,650.80 | 164,948.40 | 91,546.36 |
| 63 | 17.2 | | 218.40 | 409.50 | 227.27 | 8,596.20 | 156,324.90 | 86,760.32 |
| 64 | 17.8 | | 273.00 | 546.00 | 303.03 | 8,541.60 | 147,701.40 | 81,974.28 |
| 65 | 18.3 | (67.5) | 375.00 | 682.50 | 378.79 | 8,487.00 | 139,077.90 | 77,188.23 |
| 66 | 18.9 | | 477.00 | 1,210.50 | 671.83 | 8,385.00 | 130,455.90 | 72,402.19 |
| 67 | 19.4 | 510 | 579.00 | 1,738.50 | 964.87 | 8,283.00 | 122,833.90 | 68,616.15 |
| 68 | 20.0 | | 681.00 | 2,266.50 | 1,257.91 | 8,181.00 | 114,211.90 | 63,830.11 |
| 69 | 20.6 | | 783.00 | 2,794.50 | 1,550.95 | 8,079.00 | 105,590.90 | 59,044.07 |

หมายเหตุ : วิธีการหาค่า degree hours ได้จากการคำนวณจากจำนวนชั่วโมง hours of occurrence ที่เกิดขึ้นในแต่ละช่วงอุณหภูมิจุดสมดุลที่พิจารณา โดยอาศัยข้อมูลสภาพอากาศราย 3 ชั่วโมง

| DEGREE HOURS & HOURS OF OCCURRENCE | | | | | | | | | | Station : KHON KEAN | |
|------------------------------------|------|--------------------------|--------------------------------------|---|-----------|--------------------------------------|---|-----------|----|---------------------------------|--|
| | | | | | | | | | | YEARS : 1981 - 1998 (2524-2541) | |
| TEMPERATURE | | MEAN TEMP.DEGREE (°F) | NO. OF HOURS BELOW TEMPERATURE | NO. OF DEGREE HOURS OF HEATING BELOW TEMPERATURE | | NO. OF HOURS ABOVE TEMPERATURE | NO. OF DEGREE HOURS OF COOLING ABOVE TEMPERATURE | | | | |
| Degree | | HOURS OF OCCURRENCE | | °F | °C | | °F | °C | °F | °C | |
| °F | °C | | | | | | | | | | |
| 70 | 21.1 | (72.5) | 935.40 | 3,322.50 | 1,843.99 | 7,977.00 | 97,917.90 | 54,344.43 | | | |
| 71 | 21.7 | | 1,087.80 | 4,486.50 | 2,490.01 | 7,824.60 | 90,321.90 | 50,128.66 | | | |
| 72 | 22.2 | 762 | 1,240.20 | 6,850.50 | 3,136.03 | 7,672.20 | 82,725.90 | 45,912.87 | | | |
| 73 | 22.8 | | 1,392.60 | 6,814.50 | 3,782.06 | 7,519.80 | 75,129.90 | 41,697.09 | | | |
| 74 | 23.3 | | 1,545.00 | 7,978.50 | 4,428.07 | 7,367.40 | 67,533.90 | 37,481.31 | | | |
| 75 | 23.9 | (77.5) | 2,035.80 | 9,142.50 | 5,074.09 | 7,215.00 | 69,937.90 | 33,265.63 | | | |
| 76 | 24.4 | | 2,526.60 | 11,914.50 | 6,612.56 | 6,724.20 | 63,949.90 | 29,942.19 | | | |
| 77 | 25.0 | 2454 | 3,017.40 | 14,886.50 | 8,151.01 | 6,233.40 | 47,981.90 | 26,618.86 | | | |
| 78 | 25.6 | | 3,508.20 | 17,468.50 | 9,689.47 | 5,742.60 | 41,973.90 | 23,295.61 | | | |
| 79 | 26.1 | | 3,999.00 | 20,230.50 | 11,227.93 | 5,251.80 | 35,985.90 | 19,972.17 | | | |
| 80 | 26.7 | (82.5) | 4,425.00 | 23,002.50 | 12,766.39 | 4,761.00 | 29,997.90 | 16,648.83 | | | |
| 81 | 27.2 | | 4,851.00 | 28,066.50 | 15,576.91 | 4,335.00 | 28,301.90 | 14,697.66 | | | |
| 82 | 27.8 | 2130 | 5,277.00 | 33,130.50 | 18,387.43 | 3,909.00 | 22,605.90 | 12,546.27 | | | |
| 83 | 28.3 | | 5,703.00 | 38,194.50 | 21,197.96 | 3,483.00 | 18,909.90 | 10,494.99 | | | |
| 84 | 28.9 | | 6,129.00 | 43,258.50 | 24,008.47 | 3,057.00 | 15,213.90 | 8,443.71 | | | |
| 85 | 29.4 | (87.5) | 6,501.00 | 48,322.50 | 26,818.99 | 2,631.00 | 11,517.90 | 6,392.43 | | | |
| 86 | 30.0 | | 6,873.00 | 56,381.50 | 30,736.73 | 2,259.00 | 9,816.90 | 5,448.38 | | | |
| 87 | 30.6 | 1860 | 7,245.00 | 62,440.50 | 34,654.48 | 1,887.00 | 8,115.90 | 4,604.32 | | | |
| 88 | 31.1 | | 7,617.00 | 69,499.50 | 38,572.22 | 1,515.00 | 6,414.90 | 3,560.27 | | | |
| 89 | 31.7 | | 7,989.00 | 76,558.50 | 42,489.97 | 1,143.00 | 4,713.90 | 2,616.21 | | | |
| 90 | 32.2 | (92.5) | 8,103.00 | 83,617.50 | 46,407.71 | 771.00 | 3,012.90 | 1,672.16 | | | |
| 91 | 32.8 | | 8,217.00 | 91,691.50 | 50,999.78 | 657.00 | 2,526.90 | 1,402.43 | | | |
| 92 | 33.3 | 570 | 8,331.00 | 100,165.50 | 56,591.85 | 543.00 | 2,040.90 | 1,132.70 | | | |
| 93 | 33.9 | | 8,445.00 | 108,439.50 | 60,183.92 | 429.00 | 1,554.90 | 862.97 | | | |
| 94 | 34.4 | | 8,559.00 | 116,713.50 | 64,775.99 | 315.00 | 1,068.90 | 593.24 | | | |
| 95 | 35.0 | (97.5) | 8,599.20 | 124,987.50 | 69,368.06 | 201.00 | 682.90 | 323.51 | | | |
| 96 | 35.6 | | 8,639.40 | 133,847.00 | 74,174.09 | 160.80 | 442.20 | 245.42 | | | |
| 97 | 36.1 | 201 | 8,679.60 | 142,308.50 | 78,980.11 | 120.60 | 301.60 | 167.33 | | | |
| 98 | 36.7 | | 8,719.80 | 150,968.00 | 83,786.13 | 80.40 | 160.80 | 89.24 | | | |
| 99 | 37.2 | | 8,760.00 | 159,825.50 | 88,592.15 | 40.20 | 20.10 | 11.16 | | | |

หมายเหตุ : วิธีการหาค่า degree hours ได้จากการคำนวณจากจำนวนชั่วโมง hours of occurrence ที่มีเกิดขึ้นในแต่ละช่วงอุณหภูมิจุดสมมูลที่พิจารณา โดยอาศัยข้อมูลสภาพอากาศราย 3 ชั่วโมง