ข้อมูลอากาศประเทศไทยสำหรับงานอนุรักษ์พลังงาน
จังหวัด เชียงใหม่

โดย

ผศ.ธนิต จินดาวณิค

คมกฤช ชูเกียรติมั่น

ร.อ.หญิงปริมลาภ วสุวัต

สิงหาคม 2543

เล่ม

3

สารบัญ

หน้า

ตารางสรุปรวมผลของข้อมูลทุกประเภทจังหวัดเชียงใหม่

CLIMATOLOGICAL DATA FOR THE PERIOD 1981-1998 — station : CHIANG MAI

Elevation of station above MSL 312 Meters — Latitude: 18 47 N — Longitude: 98 59 E

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
TEMPERATURE (° C)													
Averages													
Daily Maximum	29.2	31.4	35.0	35.6	33.9	32.2	30.8	29.9	30.4	30.2	29.1	28.0	31.3
Monthly Mean	21.0	23.0	27.5	29.2	28.9	28.1	27.2	26.5	26.6	25.7	23.7	21.6	25.8
Daily Minimum	14.4	15.4	20.1	23.3	24.7	24.8	24.4	24.1	23.7	22.4	19.4	16.5	21.1
Dry bulb Standard Diviation	5.4	5.9	5.5	4.9	3.9	3.1	2.8	2.6	2.7	3.3	3.9	4.7	4.1
Extremes													
Highest	33.2	37.0	39.3	41.9	40.0	39.4	36.0	35.7	35.1	37.9	33.5	33.0	41.9
Lowest	8.7	9.6	13.9	18.8	20.9	22.1	20.0	21.9	19.6	14.1	13.1	7.8	7.8
Monthly Dew Point	14.1	13.3	14.7	18.3	21.6	22.5	22.5	22.8	22.7	21.5	18.8	15.2	19.0
Dew Point Standard Diviation	2.5	3.0	3.1	2.7	1.8	1.1	1.1	1.0	1.1	1.9	2.6	2.9	2.1
Monthly Wet bulb Temperature	17.0	17.5	19.5	22.0	23.8	24.1	24.0	24.0	23.9	22.9	20.6	17.5	21.4
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	82.8	136.3	282.7	325.2	328.1	291.7	275.1	254.7	247.0	229.4	160.4	101.2	2,714.6
RELATIVE HUMIDITY (%)													
Averages													
Monthly Mean	67.3	56.7	50.1	55.5	68.4	74.6	76.8	79.4	79.7	77.5	74.7	71.9	69.4
Hour 01:00-06:00	83.8	72.8	63.1	67.9	80.1	84.9	86.5	88.4	89.8	88.8	88.1	86.9	81.7
Hour 07:00-12:00	78.9	69.5	61.3	64.6	73.6	77.5	80.1	82.4	83.3	81.9	81.2	81.2	76.3
Hour 13:00-18:00	41.4	33.3	31.7	38.2	52.4	60.3	63.1	65.9	64.4	59.7	53.6	47.2	50.9
Hour 19:00-24:00	65.1	51.3	44.5	51.3	67.3	75.7	77.6	80.9	81.5	79.5	76.1	72.3	68.6
WIND													
Average Speed (m/s)	0.8	1.1	1.4	1.9	1.9	1.8	1.6	1.4	1.3	1.2	1.1	0.9	1.4
Prevailing wind	S	S	S	S	S, SW	SW	SW	S	S	N	N	N	S
Maximum Speed (m/s)	25.2	9.3	14.4	17.5	19.0	15.4	10.3	12.9	10.8	12.9	13.4	15.4	25.2
SKY COVER (0-10)													
Average Sky Condition	2	1.8	2.1	3.5	5.8	7.6	8.3	8.4	7.2	5.7	4.5	2.9	5.0
Percentage of Sky cover													
Clear sky (0-3)	78	80	75	57	27	7	4	3	11	28	46	66	40
Partly Cloudy sky (4-7)	17	14	17	28	37	32	22	24	33	37	30	23	26
Cloudy sky (8-10)	5	6	8	15	36	61	73	73	56	35	24	11	34
SUNSHINE DURATION* (hours)													
Average Monthly total	271.9	267.0	270.4	255.6	231.7	148.2	112.3	123.4	162.9	205.5	206.3	233.0	2,488.2
Percentage of Sunshine	73.1	76.7	72.7	71.0	62.3	41.2	30.2	33.2	45.3	55.3	57.3	62.6	56.6
SOLAR RADIATION* (W/m ^{2})													
Average Hourly max	679.5	721.8	704.6	774.7	787.8	806.2	661.9	757.2	782.0	767.2	-	650.0	735.7
Average Hourly mean	286.8	315.6	310.4	338.5	349.8	360.3	289.2	315.1	324.5	317.9	-	274.7	316.8
Average Daily Total	4,302.1	4,733.6	4,656.1	5,077.0	5,247.6	5,405.1	4,337.3	4,726.6	4,867.1	4,768.3	-	4,120.4	4,749.2
RAINFALL (mm)													
Average Monthly total	1.8	6.6	14.9	56.0	155.0	141.9	151.6	248.9	202.5	125.5	55.7	15.3	1,175.7
Daily record high	14.4	33.5	118.9	176.0	81.0	92.0	105.3	105.4	93.3	93.2	86.5	63.6	176.0
Average Number of rainy days	0	1	1	6	15	19	19	23	17	11	6	1	119
(0.1 mm. Or more)													
EVAPORATION (mm)													
Average Monthly total	110.4	134.7	178.7	194.1	194.4	148.2	133.7	134.4	137.4	134.7	110.1	97.6	1,708.4

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

1 W/m2 = 0.317 Btu/h.ft2

(*) data base on 1997 - 1998 recorded period

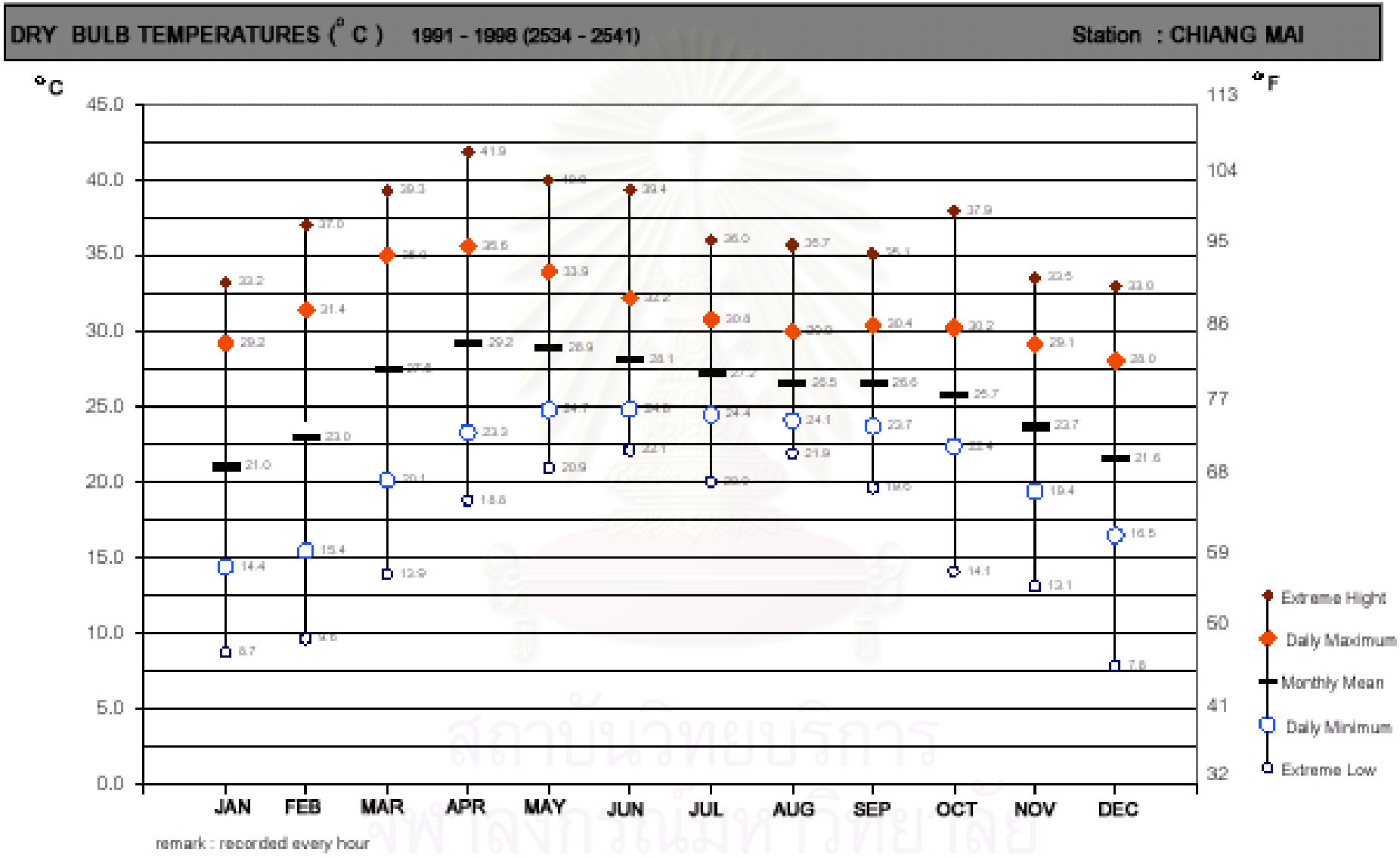
(-) missing value or no data report

ตารางแสดงผลข้อมูลอุณหภูมิกระเปาะแห้ง (dry bulb temperatures)

DRY BULB TEMPERATURES (°C) 1981 - 1998 (2524 - 2541) — **Station : CHIANG MAI**

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	14.2	19.9	27.7	16.1	22.5	29.9	17.2	25.6	34.2	22.5	29.0	35.8	24.4	30.2	35.7	24.8	28.7	32.9	24.6	27.5	30.5	24.2	26.2	29.4	23.7	26.0	29.2	23.6	26.6	30.5	21.3	24.7	29.3	18.7	23.6	29.7	21.3	25.9	31.2
2	14.9	20.7	28.5	15.2	21.9	29.0	18.4	25.7	33.7	22.1	28.6	35.4	25.2	30.5	36.3	25.3	29.2	33.4	25.2	28.1	32.0	24.3	26.4	29.3	23.9	26.6	30.1	23.1	26.3	31.2	20.3	24.6	30.0	18.1	22.4	27.3	21.3	25.9	31.4
3	14.8	20.8	28.9	14.7	21.6	29.5	17.7	25.6	33.6	22.2	28.3	34.8	25.1	29.7	35.0	25.3	29.0	34.6	24.6	27.7	31.0	24.3	26.7	30.3	23.7	26.5	30.5	23.1	26.4	30.8	19.0	22.8	27.8	18.7	23.6	29.9	21.1	25.7	31.4
4	14.7	21.0	29.1	14.5	21.7	30.0	18.7	26.2	33.9	22.4	28.6	35.1	24.8	30.3	36.0	25.1	28.6	32.9	24.7	27.3	31.2	24.0	26.6	30.1	23.8	26.4	30.2	23.0	26.3	30.9	19.6	23.0	27.3	18.9	23.6	29.5	21.2	25.8	31.3
5	14.1	20.7	28.4	14.5	21.6	29.5	19.3	26.6	34.8	23.1	29.2	36.1	25.2	30.0	35.5	24.7	28.4	32.7	24.2	26.8	30.4	24.3	26.7	29.9	23.7	26.4	30.2	22.8	26.0	29.5	19.8	23.6	28.4	18.9	23.7	29.9	21.2	25.8	31.3
6	15.4	20.9	28.3	13.8	21.7	30.3	18.6	26.6	34.8	22.4	28.8	35.8	24.7	30.3	35.8	24.7	27.9	31.7	24.1	27.1	31.6	24.3	27.1	30.3	23.2	26.0	29.5	23.3	25.7	29.2	19.9	24.1	29.2	19.0	23.4	29.0	21.1	25.8	31.3
7	14.9	20.9	28.8	14.2	22.0	30.9	18.3	26.3	34.7	22.9	28.3	34.2	25.5	29.6	34.2	24.6	27.7	32.3	24.5	27.4	31.1	24.5	27.4	31.0	23.7	26.5	30.2	23.1	25.7	29.9	19.1	24.1	29.6	18.5	22.8	28.3	21.1	25.7	31.3
8	14.5	20.8	28.7	14.0	22.0	31.1	19.0	26.4	34.7	22.3	28.8	35.8	25.1	28.9	33.5	24.7	28.0	32.3	23.9	27.0	31.0	24.3	27.3	31.5	24.0	26.7	30.4	22.8	26.0	30.6	19.8	23.9	29.2	17.1	22.0	27.9	21.0	25.7	31.4
9	14.1	20.5	28.8	14.2	22.1	30.8	19.1	26.8	34.7	22.5	29.1	35.7	24.1	28.9	34.8	24.4	27.5	31.4	24.3	27.1	31.0	24.2	27.2	31.4	23.7	26.7	30.4	23.1	26.0	30.1	19.7	23.6	28.7	16.2	21.5	28.0	20.8	25.6	31.3
10	14.0	20.2	28.6	14.7	22.6	31.1	19.2	26.8	35.0	23.1	29.5	36.5	25.4	29.1	34.1	24.6	27.6	31.4	24.0	27.1	31.1	24.8	27.2	30.3	23.8	26.3	29.6	23.1	26.3	31.3	18.9	23.5	29.3	16.0	21.3	27.5	21.0	25.6	31.3
11	13.7	20.3	28.9	15.1	22.4	31.0	18.6	26.9	34.8	23.1	30.1	36.9	24.6	28.3	32.9	24.6	27.7	31.5	24.3	27.6	31.7	24.6	27.2	30.5	23.7	26.4	30.4	23.0	26.0	30.5	18.8	23.5	29.5	16.8	21.4	27.2	20.9	25.6	31.3
12	13.8	20.7	29.3	14.3	22.5	31.5	19.1	26.5	34.1	24.4	30.2	36.5	24.4	29.1	34.4	24.8	27.7	31.9	24.4	27.7	31.7	24.8	26.9	29.9	23.6	26.3	29.9	22.7	26.0	30.6	18.7	23.3	29.3	16.1	21.6	28.5	20.9	25.7	31.5
13	14.0	21.0	29.8	14.3	22.7	31.6	17.7	26.6	35.4	23.6	30.1	36.9	24.4	29.1	34.9	24.3	27.7	32.0	25.0	27.6	30.8	23.9	26.7	30.3	23.2	27.0	31.2	22.5	26.2	30.7	19.3	23.6	29.0	16.3	21.8	28.4	20.7	25.8	31.8
14	14.0	20.8	29.1	14.5	23.0	32.4	19.0	27.2	35.2	23.7	29.6	36.0	25.0	29.3	34.6	24.8	28.5	32.7	24.8	27.6	31.2	24.6	26.6	29.4	23.8	26.9	30.9	23.1	26.6	31.6	19.1	22.9	28.4	15.9	21.9	28.7	21.0	25.9	31.7
15	14.0	20.5	28.5	14.2	23.1	32.6	20.0	28.0	36.0	23.9	29.7	36.4	24.8	28.8	33.8	24.6	28.3	32.2	24.5	27.1	30.4	24.2	26.3	29.3	23.9	26.7	31.0	22.9	26.1	30.6	18.4	23.0	29.0	17.4	22.4	28.7	21.1	25.8	31.5
16	14.4	21.1	28.9	14.6	23.3	32.7	20.8	28.3	36.3	23.6	29.5	35.6	24.9	28.7	33.7	24.8	28.4	32.8	24.7	26.7	29.7	23.8	26.2	29.6	24.2	26.6	30.0	22.4	26.0	30.3	19.4	23.6	29.2	17.4	21.9	27.3	21.3	25.8	31.3
17	14.5	21.1	29.4	14.4	23.1	32.8	20.4	28.4	36.5	23.1	29.7	35.8	24.5	28.5	34.0	24.9	28.1	32.3	24.3	26.7	30.4	24.1	26.5	30.1	23.3	26.4	30.2	22.4	25.8	30.8	18.8	24.0	30.3	17.9	22.2	28.2	21.1	25.9	31.7
18	14.2	21.0	29.6	15.2	23.8	32.9	20.7	28.3	36.4	24.2	30.2	36.4	24.8	28.1	32.4	24.9	27.8	31.6	24.1	27.5	31.3	24.1	26.0	28.5	24.0	26.8	30.1	22.0	25.4	29.7	19.9	24.1	29.5	17.2	21.9	28.3	21.3	25.9	31.4
19	13.6	20.6	29.2	16.1	23.9	32.2	21.7	28.8	35.8	24.0	29.8	36.5	24.7	28.0	32.2	24.8	28.1	32.1	24.6	27.8	31.4	23.6	25.7	28.3	23.9	27.0	31.2	22.3	24.9	28.6	19.6	24.4	30.1	16.4	21.4	28.3	21.3	25.9	31.3
20	14.1	20.6	29.3	16.6	23.6	30.8	21.1	28.6	36.1	23.7	29.7	36.3	24.4	28.0	32.0	25.1	28.2	32.1	24.3	27.7	32.4	23.7	26.2	29.4	23.7	26.7	30.8	22.7	25.4	29.0	20.2	24.5	29.9	16.0	21.5	28.2	21.3	25.9	31.4
21	14.1	21.1	29.8	16.2	23.3	30.9	21.5	28.6	35.9	23.6	29.2	35.8	24.7	28.1	32.8	24.8	28.5	33.2	24.8	27.7	31.5	24.0	26.5	30.4	23.7	26.1	29.5	22.0	25.4	29.7	19.6	24.2	30.1	16.4	21.7	28.1	21.3	25.9	31.5
22	14.4	21.5	30.6	16.8	23.9	31.3	21.2	28.4	36.1	22.9	28.5	34.0	24.4	28.6	33.8	25.3	28.6	32.8	24.6	27.4	30.6	23.8	27.0	30.8	23.7	26.8	30.9	21.5	25.3	30.1	19.4	23.6	28.7	16.3	21.6	28.1	21.2	25.9	31.5
23	13.9	21.1	29.8	17.0	24.1	31.4	20.9	28.3	36.3	23.7	28.8	34.5	24.7	29.1	34.3	25.1	27.9	31.7	24.3	27.0	30.7	24.0	26.1	29.1	23.9	26.6	30.3	21.7	25.5	30.6	19.1	23.8	29.5	15.7	20.9	28.1	21.2	25.8	31.4
24	13.0	20.6	29.4	17.0	24.2	32.3	21.0	28.0	35.5	23.7	29.7	35.9	24.9	28.8	33.6	25.1	27.9	32.4	24.6	27.4	31.2	23.4	25.8	28.9	23.8	26.5	30.1	21.5	25.6	30.8	19.6	23.7	29.4	14.7	20.0	26.4	21.0	25.7	31.3
25	13.2	20.7	29.6	17.3	24.3	31.5	21.5	28.5	35.5	23.9	28.6	34.7	25.1	28.8	33.6	24.5	27.7	31.9	24.4	26.9	30.2	23.8	26.2	30.3	23.5	26.8	31.4	21.4	25.4	30.7	18.8	23.5	29.1	13.8	20.1	27.3	20.9	25.6	31.3
26	13.4	21.2	29.9	17.6	24.6	31.8	22.5	28.2	34.1	23.0	28.7	35.3	24.5	28.7	33.7	24.4	27.5	31.0	24.5	26.7	30.2	23.6	26.0	29.4	23.5	26.8	31.0	21.1	25.2	30.6	19.2	23.3	28.5	14.2	19.8	27.0	21.0	25.6	31.0
27	14.6	21.9	29.8	16.5	24.4	32.7	22.1	27.5	33.0	24.0	28.5	34.8	24.5	28.6	33.9	24.6	27.6	31.1	24.1	26.7	29.8	23.4	26.2	29.6	24.2	26.7	30.0	21.2	25.0	30.0	19.5	22.8	27.7	14.2	20.0	26.7	21.1	25.5	30.7
28	16.3	22.3	29.6	16.5	24.8	33.5	22.0	27.3	32.6	23.1	28.3	33.9	24.6	28.2	33.1	24.8	27.8	31.6	24.2	26.8	29.7	23.9	27.1	31.5	23.6	26.6	30.6	21.1	24.9	29.6	18.7	23.2	29.0	15.2	20.3	27.4	21.2	25.6	31.0
29	16.3	21.9	28.8	15.2	23.3	32.0	22.5	28.6	35.4	24.0	29.0	34.5	24.5	27.8	31.7	24.5	27.5	31.5	24.4	27.0	30.3	24.1	27.1	31.0	23.3	26.5	30.9	21.5	25.1	29.7	19.3	23.7	29.4	14.8	20.2	27.1	21.2	25.6	31.0
30	15.5	22.2	29.7				22.0	28.8	35.2	23.8	29.4	35.6	24.6	27.9	32.4	24.5	27.7	31.7	24.6	26.8	30.1	24.0	26.0	29.3	23.0	26.8	31.3	21.8	25.3	29.8	19.4	23.8	29.8	13.8	19.5	26.8	21.5	25.8	31.1
31	15.2	22.3	30.1				22.6	28.9	35.2				24.8	28.4	32.9				23.9	25.9	28.5	23.8	25.9	29.1				21.7	25.2	29.6				13.5	19.7	27.3	20.8	25.2	30.4
Average	14.4	21.0	29.2	15.4	23.0	31.4	20.1	27.5	35.0	23.3	29.2	35.6	24.7	28.9	33.9	24.8	28.1	32.2	24.4	27.2	30.8	24.1	26.5	29.9	23.7	26.6	30.4	22.4	25.7	30.2	19.4	23.7	29.1	16.5	21.6	28.0	21.1	25.7	31.3
Extremes	8.7		33.2	9.6		37.0	13.9		39.3	18.8		41.9	20.9		40.0	22.1		39.4	20.0		36.0	21.9		35.7	19.6		35.1	14.1		37.9	13.1		33.5	7.8		33.0	7.8		41.9
StdD.	5.4			5.9			5.5			4.9			3.9			3.1			2.8			2.6			2.7			3.3			3.9			4.7			4.1		

แผนภูมิอุณหภูมิกระเปาะแห้ง (dry bulb temperatures)

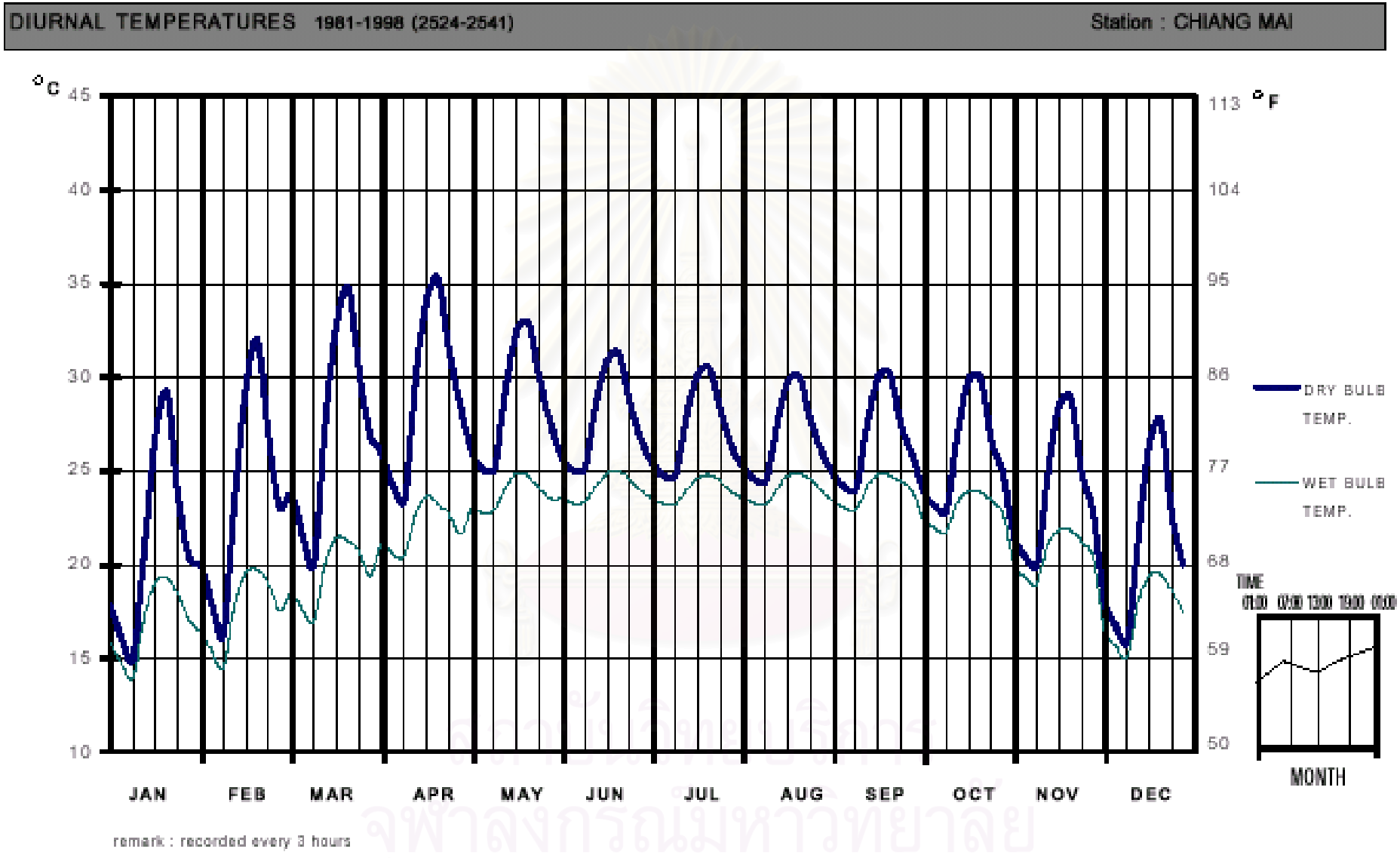


ตารางแสดงผลข้อมูลอุณหภูมิกระเปาะเปียก (wet bulb temperatures)

WET BULB TEMPERATURES (°C) 1981 - 1998 (2524 - 2541) **Station : CHIANG MAI**

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	13.9	16.9	19.2	14.7	17.4	19.1	15.4	18.5	20.9	19.2	21.1	23.1	21.7	22.9	24.0	23.3	24.3	25.4	23.0	23.8	24.7	23.3	23.9	24.7	23.2	24.1	24.9	22.7	23.6	24.6	20.2	21.5	22.6	17.0	18.9	20.5	19.8	21.4	22.8
2	14.2	17.1	19.6	14.0	17.0	19.6	15.9	18.4	20.4	18.7	20.7	22.7	21.9	23.0	24.0	23.7	24.5	25.4	23.2	23.9	24.7	23.1	23.9	24.8	23.2	24.0	24.9	22.4	23.5	24.5	19.8	21.4	22.7	16.5	18.5	20.2	19.7	21.3	22.8
3	14.4	17.2	19.5	13.8	16.9	19.1	15.3	18.2	20.4	18.7	20.8	22.7	22.2	23.2	24.5	23.6	24.4	25.4	22.9	23.8	24.6	23.2	24.2	25.0	23.2	24.1	25.0	22.5	23.5	24.5	20.1	21.6	22.8	15.8	18.3	20.0	19.7	21.3	22.8
4	14.6	17.4	19.7	13.7	16.6	19.1	15.7	18.4	20.6	19.1	21.2	23.0	22.1	23.3	24.5	23.5	24.4	25.5	23.0	23.9	24.9	23.1	24.0	24.8	23.2	24.2	25.1	22.4	23.4	24.4	19.9	21.4	22.5	15.9	18.3	20.2	19.7	21.4	22.9
5	14.3	17.2	19.6	13.2	16.4	18.9	16.0	18.6	20.7	19.5	21.4	23.1	22.3	23.3	24.3	23.4	24.3	25.2	23.2	23.9	24.7	23.3	24.0	24.8	23.2	24.1	25.0	22.3	23.3	24.1	19.9	21.3	22.7	16.3	18.5	20.3	19.7	21.4	22.8
6	14.6	17.3	19.4	13.2	16.6	19.1	16.3	18.9	21.2	19.5	21.4	23.4	22.5	23.5	24.5	23.3	24.1	25.0	23.1	23.8	24.7	23.1	24.0	24.8	23.1	24.0	25.0	22.3	23.4	24.5	19.7	21.4	22.7	16.5	18.5	20.3	19.8	21.4	22.9
7	14.0	16.9	19.2	13.7	16.8	19.1	16.3	18.9	20.7	19.7	21.5	23.8	22.4	23.4	24.7	23.3	24.2	25.2	23.1	23.8	24.5	23.2	24.0	24.9	23.2	24.0	24.8	22.5	23.5	24.6	19.2	21.1	22.6	16.4	18.2	19.8	19.8	21.4	22.8
8	13.6	16.7	19.2	13.8	16.8	19.1	16.5	18.8	20.6	19.4	21.5	23.4	22.4	23.4	24.9	23.5	24.2	25.4	23.2	24.0	24.8	23.1	23.8	24.7	23.2	24.1	24.9	22.6	23.4	24.2	19.7	21.3	22.6	15.5	17.6	19.4	19.7	21.3	22.8
9	13.0	16.1	18.5	13.8	16.9	19.1	16.5	19.1	21.1	19.6	21.6	23.6	22.2	23.3	24.7	23.3	24.1	25.0	23.3	24.0	24.8	23.0	24.0	24.9	23.2	24.1	25.1	22.6	23.5	24.6	19.5	20.8	22.1	14.8	17.4	19.3	19.6	21.3	22.7
10	12.7	15.9	18.6	13.8	16.9	19.4	16.5	19.3	21.2	20.0	21.7	23.5	22.5	23.6	24.7	23.4	24.2	24.9	23.4	24.1	24.8	23.3	24.2	25.1	23.1	23.9	24.7	22.6	23.6	24.7	18.4	20.0	21.2	14.8	17.4	19.3	19.5	21.2	22.7
11	12.8	16.1	18.7	14.3	17.1	19.6	16.3	19.3	21.2	19.9	21.7	23.1	22.9	23.8	24.8	23.3	24.2	25.1	23.0	24.0	24.8	23.6	24.3	25.3	22.7	23.9	25.0	22.4	23.5	24.5	18.5	20.3	21.6	15.2	17.7	19.8	19.6	21.3	22.8
12	13.2	16.6	19.5	14.2	17.2	19.4	16.6	19.2	21.2	20.2	22.0	23.9	22.8	23.8	24.8	23.3	24.1	24.9	23.1	24.0	24.9	23.4	24.0	25.0	22.9	24.0	25.0	22.4	23.4	24.2	18.8	20.4	21.8	15.5	18.0	19.9	19.7	21.4	22.9
13	13.8	17.0	19.4	13.8	17.1	19.5	16.0	18.8	20.9	20.4	22.0	23.7	22.8	23.7	25.2	23.2	24.1	25.1	23.3	24.1	24.9	23.1	23.9	24.8	22.7	24.1	25.0	22.1	23.4	24.4	18.7	20.5	21.8	15.6	18.2	20.3	19.6	21.4	22.9
14	14.0	17.0	19.6	14.0	17.1	19.5	16.3	19.2	21.3	20.4	22.1	23.9	22.9	23.8	25.2	23.3	24.2	25.2	23.5	24.2	24.9	23.4	24.2	24.9	23.0	24.1	25.1	22.4	23.5	24.4	19.1	20.6	21.7	15.5	18.0	20.0	19.8	21.5	23.0
15	14.0	16.9	19.4	13.7	17.1	19.6	17.3	19.7	21.7	20.7	22.2	23.8	22.7	23.7	25.1	23.2	24.1	25.1	23.1	24.0	24.8	23.4	24.1	25.0	23.2	24.0	24.9	22.0	23.2	24.0	18.9	20.4	21.6	15.5	17.9	19.9	19.8	21.5	22.9
16	14.0	17.2	19.6	14.2	17.2	19.6	17.3	19.6	21.6	20.7	22.1	23.7	22.8	23.8	25.1	23.2	24.1	25.1	23.4	24.1	24.9	23.2	24.0	25.1	23.2	24.1	25.2	21.9	23.1	24.1	18.8	20.4	21.8	15.4	17.9	19.8	19.8	21.5	23.0
17	14.4	17.3	19.5	14.2	17.3	19.4	17.1	19.6	21.6	20.7	22.4	24.0	22.8	23.7	25.0	23.1	24.0	24.9	23.2	24.0	24.9	23.1	24.1	25.0	22.9	24.0	25.0	21.8	23.0	24.1	18.6	20.6	22.2	15.6	17.8	19.5	19.8	21.5	22.9
18	13.8	16.7	19.0	14.6	17.6	19.8	16.9	19.6	21.6	21.2	22.5	24.1	22.6	23.7	24.7	23.2	24.0	25.0	23.2	24.1	25.1	23.3	24.1	24.8	23.1	24.0	24.8	21.6	22.8	23.8	19.4	21.0	22.5	15.5	17.6	19.5	19.9	21.5	22.9
19	13.4	16.6	19.1	14.9	18.0	20.3	17.7	19.9	21.8	21.1	22.4	24.1	22.9	24.0	25.0	22.9	23.9	25.1	23.3	24.1	25.0	23.2	24.0	24.9	23.0	24.0	24.8	21.8	22.9	23.9	19.6	21.1	22.3	14.9	17.3	19.4	19.9	21.5	23.0
20	13.8	16.8	19.4	15.3	18.1	20.3	17.3	19.7	22.0	21.1	22.5	23.9	22.8	24.0	25.2	23.1	24.0	25.0	23.1	24.0	24.9	23.2	24.1	24.9	22.9	23.9	24.9	22.0	23.0	24.0	19.5	21.1	22.3	14.7	17.2	19.3	19.9	21.5	23.0
21	13.9	17.0	19.7	15.2	18.1	20.3	17.4	19.8	21.5	21.3	22.6	24.3	23.2	24.3	25.8	23.2	24.0	25.0	23.3	24.0	24.7	23.3	24.0	24.8	22.8	23.8	24.7	21.6	22.7	24.0	19.3	20.9	22.1	14.7	17.4	19.6	19.9	21.5	23.0
22	13.7	16.9	19.4	15.4	18.2	20.3	17.4	19.8	21.9	21.2	22.3	23.5	23.3	24.1	25.2	23.3	24.1	25.1	23.3	24.1	24.9	23.1	24.1	25.1	22.7	23.9	24.9	21.3	22.6	23.7	18.9	20.4	21.8	14.7	17.4	19.6	19.9	21.5	22.9
23	13.5	16.4	18.8	15.6	18.4	20.5	17.5	19.7	21.6	21.2	22.5	24.1	23.3	24.2	25.1	23.2	24.0	25.0	23.3	24.1	25.1	23.3	24.2	25.1	23.0	23.9	24.9	21.3	22.5	23.6	18.6	20.4	21.8	14.7	17.2	19.5	19.8	21.5	22.9
24	13.0	16.4	18.9	15.3	18.3	20.4	17.3	19.8	21.8	21.3	22.7	24.3	23.4	24.2	25.3	23.0	24.0	24.8	23.5	24.1	24.9	23.1	24.1	25.2	22.6	23.7	24.7	21.3	22.5	23.6	18.7	20.2	21.3	14.0	16.6	18.7	19.7	21.4	22.8
25	13.7	16.8	19.3	15.6	18.4	20.4	17.6	20.0	21.8	21.3	22.6	24.0	23.6	24.3	25.2	23.1	24.0	24.9	23.3	24.0	24.8	23.4	24.1	24.8	22.6	23.6	24.7	20.9	22.2	23.4	18.1	19.7	21.1	13.2	16.3	18.7	19.7	21.3	22.8
26	14.3	17.2	19.7	16.1	18.8	20.9	18.1	20.3	22.2	21.2	22.5	24.0	22.9	24.2	25.3	23.1	23.9	24.8	23.3	24.1	25.1	23.1	24.0	24.8	22.6	23.6	24.3	20.8	22.3	23.6	17.6	19.5	20.9	13.2	16.3	18.8	19.7	21.4	22.9
27	14.9	17.5	19.6	15.7	18.6	20.5	18.2	20.3	22.1	21.4	22.6	24.3	23.3	24.2	25.3	23.3	24.0	24.9	23.2	23.9	24.8	23.1	23.9	24.6	22.8	23.9	25.0	20.8	22.1	23.1	17.8	19.6	20.9	13.6	16.5	18.8	19.8	21.4	22.8
28	15.1	17.7	20.0	15.4	18.4	20.6	18.4	20.6	22.5	21.3	22.6	24.0	23.4	24.2	25.2	23.2	23.9	24.9	23.2	24.0	24.8	23.3	24.1	25.0	22.9	23.8	24.7	20.3	21.8	23.1	18.0	19.8	21.4	14.2	16.8	19.0	19.9	21.5	22.9
29	15.3	17.8	20.0	16.3	18.3	20.2	18.8	20.7	22.4	21.8	22.8	24.3	23.0	24.0	25.0	23.3	23.9	24.8	23.3	24.0	25.0	23.1	24.1	25.1	22.7	23.8	24.7	20.6	22.0	23.1	18.3	19.9	21.3	14.1	16.8	19.2	20.0	21.5	22.9
30	14.9	17.8	19.9				18.5	20.8	22.8	21.4	22.7	24.0	23.4	24.2	25.0	23.0	23.9	24.9	23.3	23.9	24.6	23.1	23.9	24.6	22.5	23.7	24.7	20.6	21.8	22.8	17.8	19.5	21.0	14.0	16.5	18.8	20.2	21.7	23.0
31	14.7	17.4	19.4				19.0	21.0	22.9				23.4	24.2	25.3				23.1	23.8	24.8	23.1	24.0	24.9				20.3	21.6	22.7				14.0	16.5	18.9	19.6	21.2	22.7
Average	14.0	17.0	19.4	14.5	17.5	19.8	17.0	19.5	21.5	20.4	22.0	23.7	22.6	23.8	24.9	23.3	24.1	25.1	23.2	24.0	24.8	23.2	24.0	24.9	23.0	23.9	24.9	21.8	22.9	24.0	19.0	20.6	21.9	15.1	17.5	19.6	19.8	21.4	22.9
Extremes	8.1		26.2	8.3		29.0	8.2		29.0	14.5		33.0	19.0		37.5	19.2		28.3	20.4		29.5	21.2		28.1	18.4		27.7	13.7		29.2	8.5		29.7	7.1		24.9	7.1		37.5
StdD.	2.7			2.7			2.4			1.9			1.3			1.0			1.0			1.0			1.1			1.7			2.3			2.8			1.8		

แผนภูมิความแตกต่างระหว่างอุณหภูมิกระเปาะแห้งและอุณหภูมิกระเปาะเปียก (diurnal temperatures)



ตารางแสดงผลข้อมูลอุณหภูมิจุดน้ำค้าง (dew point temperatures)

DEW POINT TEMPERATURES (°C) 1981 - 1998 (2524 - 2541) **Station : CHIANG MAI**

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	13.4	14.6	15.5	12.4	14.0	15.2	12.7	13.9	14.6	14.4	16.6	17.8	18.5	19.7	20.2	22.5	22.8	23.0	21.7	22.0	22.4	22.4	22.8	23.1	22.7	23.0	23.5	21.4	22.2	22.5	19.1	19.8	20.7	15.9	16.7	17.4	18.1	19.0	19.7
2	13.6	14.7	15.8	12.5	13.6	14.5	12.4	13.9	14.7	13.4	15.8	17.0	18.2	19.7	20.6	22.1	22.9	23.3	21.7	22.1	22.4	22.3	22.7	23.3	22.5	22.9	23.4	21.6	22.1	22.7	18.6	19.6	20.3	15.7	16.3	17.4	17.9	18.9	19.6
3	13.6	14.8	15.9	11.7	13.4	14.5	12.3	13.7	14.4	14.7	16.2	16.6	18.9	20.2	20.9	22.3	22.8	23.1	21.7	22.0	22.5	22.4	22.8	23.5	22.6	22.9	23.5	21.5	22.1	22.5	19.2	19.9	20.6	14.9	16.0	16.9	18.0	18.9	19.6
4	13.5	14.8	15.6	11.0	12.8	13.9	12.4	13.9	14.6	15.5	16.8	17.6	19.5	20.4	21.1	22.3	22.8	23.1	22.0	22.4	23.0	22.3	22.7	23.2	22.6	22.9	23.5	21.5	22.0	22.3	18.1	19.6	20.9	15.2	16.2	17.2	18.0	18.9	19.7
5	13.5	14.7	15.9	10.9	12.5	13.4	12.3	13.9	14.6	15.5	17.1	18.1	20.1	20.8	21.3	22.2	22.6	22.9	22.0	22.4	22.8	22.5	22.8	23.1	22.6	22.9	23.6	21.5	22.0	22.7	19.1	19.7	20.2	15.4	16.4	17.2	18.1	19.0	19.6
6	13.4	14.7	15.4	10.8	12.6	13.5	13.1	14.4	15.5	15.2	17.4	18.4	20.0	21.1	21.6	22.2	22.6	23.0	21.9	22.3	22.9	22.5	22.7	23.1	22.4	22.8	23.2	21.6	22.1	22.9	18.8	19.4	19.7	15.7	16.4	17.0	18.1	19.0	19.7
7	12.7	14.3	15.4	10.8	12.8	13.7	11.9	14.2	15.6	16.9	17.7	18.9	20.0	20.8	21.3	22.2	22.8	23.3	22.0	22.4	22.8	22.1	22.5	22.9	22.8	23.0	23.3	21.7	22.2	22.9	18.8	19.3	19.8	14.5	15.9	16.6	18.0	19.0	19.7
8	13.0	14.2	15.5	10.5	12.7	13.7	10.9	13.8	14.7	16.5	17.5	18.4	20.5	21.0	21.3	22.5	22.8	23.1	22.1	22.4	22.7	21.9	22.4	22.8	22.5	22.9	23.6	21.6	22.1	22.4	19.0	19.6	20.3	14.4	15.3	16.1	17.9	18.9	19.6
9	11.5	13.2	14.3	10.6	12.9	13.8	12.7	14.6	15.4	15.8	17.5	18.4	19.7	20.9	21.4	22.5	22.8	23.4	21.7	22.4	23.0	22.3	22.6	23.1	22.8	22.9	23.3	22.1	22.3	22.6	18.3	19.1	19.9	14.0	15.2	16.1	17.8	18.9	19.6
10	11.4	13.0	14.0	11.0	12.8	13.5	12.7	14.7	15.6	15.7	17.5	18.3	20.6	21.3	21.6	22.2	22.8	23.2	22.2	22.7	23.1	22.6	22.8	23.3	22.6	22.8	23.2	22.1	22.4	22.7	17.1	17.9	18.7	14.1	15.1	16.6	17.8	18.8	19.5
11	11.6	13.3	14.4	11.4	13.1	13.9	12.8	14.5	15.2	15.4	17.3	18.4	20.9	21.5	22.0	22.3	22.8	23.4	22.4	22.7	23.1	22.6	22.9	23.1	22.2	22.7	23.1	21.6	22.2	22.8	17.7	18.4	19.3	14.6	15.5	16.6	16.0	18.9	19.6
12	12.5	13.9	15.1	10.7	13.0	14.0	12.6	14.4	15.3	16.7	18.0	18.7	20.6	21.4	21.9	22.2	22.7	23.1	22.2	22.6	22.9	22.2	22.6	22.8	22.4	22.8	23.2	21.6	22.1	22.6	17.4	18.6	19.2	14.9	15.8	17.0	18.0	19.0	19.6
13	12.8	14.2	15.3	10.9	13.0	14.0	11.5	13.6	14.9	15.9	18.0	19.0	20.2	21.2	21.8	22.1	22.6	23.0	22.3	22.6	22.8	21.8	22.4	23.1	22.3	22.8	23.6	21.1	22.0	22.6	17.8	18.7	19.5	15.0	16.0	16.9	17.8	18.9	19.7
14	13.1	14.1	14.9	9.8	12.7	13.8	12.4	14.1	14.8	17.4	18.3	19.2	20.8	21.5	22.0	22.4	22.6	23.2	22.2	22.6	23.0	22.4	22.9	23.3	22.6	22.9	23.2	21.4	22.1	22.6	17.7	18.8	19.3	15.0	15.9	16.7	18.1	19.0	19.7
15	12.9	14.1	15.2	10.4	12.4	13.4	12.5	14.8	15.9	17.0	18.5	19.2	20.9	21.6	21.9	22.0	22.4	22.9	22.0	22.5	23.1	22.7	23.0	23.3	22.4	22.8	23.0	21.3	21.8	22.4	17.8	18.6	19.4	14.7	15.6	16.3	18.0	19.0	19.7
16	13.4	14.5	15.8	10.3	12.6	14.0	10.9	14.5	16.0	16.7	18.3	19.1	21.0	21.6	21.9	22.0	22.3	22.8	22.3	22.7	23.0	22.5	22.9	23.3	22.6	22.8	23.2	21.3	21.7	22.5	17.8	18.6	19.4	14.6	15.6	16.4	17.9	19.0	19.8
17	13.0	14.4	15.4	10.5	12.7	13.9	11.7	14.3	15.6	17.6	18.7	19.4	21.1	21.6	22.0	21.9	22.2	22.7	22.0	22.5	23.1	22.5	22.8	23.5	22.4	22.8	23.5	21.2	21.6	21.8	18.2	18.9	19.9	14.2	15.5	16.4	18.0	19.0	19.8
18	11.8	13.7	14.7	10.7	12.9	13.9	12.8	14.4	15.4	17.9	19.1	20.0	21.0	21.7	22.0	22.1	22.3	22.5	22.4	22.7	23.2	22.5	22.9	23.1	22.4	22.7	23.2	21.0	21.4	21.9	18.6	19.3	20.1	14.2	15.3	16.2	18.1	19.0	19.7
19	12.2	13.7	14.7	11.9	13.7	14.6	12.3	14.9	16.1	17.5	19.0	19.7	21.7	22.1	22.3	21.7	22.3	22.8	22.3	22.5	22.8	22.6	22.9	23.3	22.2	22.7	23.3	20.9	21.5	22.0	18.7	19.5	20.1	13.9	15.0	15.7	18.2	19.1	19.8
20	12.8	13.9	15.0	12.1	14.0	14.6	12.9	14.8	15.8	17.9	19.1	19.7	21.4	22.0	22.4	22.1	22.5	22.9	21.8	22.6	23.2	22.7	22.9	23.2	22.3	22.7	23.2	21.1	21.6	21.9	18.7	19.3	19.9	13.9	14.9	15.7	18.3	19.2	19.8
21	13.1	14.0	15.1	12.9	14.2	14.8	12.2	14.7	16.1	18.1	19.3	20.2	21.8	22.3	22.5	21.9	22.2	22.7	22.2	22.6	22.9	22.3	22.7	22.9	22.3	22.6	23.1	20.9	21.3	22.1	17.9	19.0	19.6	14.0	15.0	15.9	18.3	19.2	19.8
22	12.3	13.8	14.4	12.3	14.1	14.8	12.9	14.7	15.8	17.0	18.7	19.9	21.5	22.2	22.6	21.9	22.3	22.6	22.2	22.6	23.1	22.3	22.7	23.3	21.8	22.5	23.2	20.2	21.0	21.4	17.5	18.7	19.7	14.1	15.1	16.0	18.0	19.0	19.7
23	11.0	13.1	14.3	12.4	14.2	15.2	11.7	14.5	15.8	16.8	19.0	19.9	21.4	22.3	22.7	22.0	22.2	22.8	22.5	22.8	23.1	22.7	23.1	23.6	22.0	22.5	22.9	20.2	20.9	21.5	17.5	18.5	19.4	13.9	15.0	15.8	17.8	19.0	19.7
24	11.9	13.1	14.7	12.0	14.0	15.0	13.3	14.9	15.6	17.6	19.2	20.0	21.3	22.3	22.8	21.9	22.3	22.8	22.5	22.9	23.2	22.6	23.0	23.4	21.9	22.3	23.1	20.2	20.9	21.6	17.1	18.2	18.7	13.2	14.2	15.3	18.0	18.9	19.7
25	12.1	13.6	14.6	12.4	14.1	14.7	12.6	15.2	16.6	17.5	19.1	19.9	22.2	22.6	23.0	21.9	22.3	22.6	22.4	22.8	23.2	22.6	22.9	23.5	21.5	22.3	22.7	20.0	20.6	21.0	16.5	17.6	18.4	12.7	13.7	14.6	17.9	18.9	19.6
26	13.0	14.1	15.2	12.5	14.5	15.4	13.8	15.6	16.9	17.8	19.3	19.9	21.9	22.3	22.8	21.9	22.2	22.4	22.1	22.7	23.1	22.6	22.9	23.6	21.5	22.2	22.8	20.2	20.8	21.5	16.6	17.5	18.2	12.6	13.8	14.8	18.0	19.0	19.7
27	13.2	14.5	15.3	12.0	14.1	15.1	14.2	15.9	16.6	19.1	19.6	19.9	22.2	22.4	22.7	22.2	22.4	22.8	22.1	22.6	23.0	22.3	22.8	23.5	22.3	22.6	23.2	19.6	20.3	21.0	16.7	17.7	18.3	12.9	14.1	15.1	18.2	19.1	19.7
28	14.0	14.9	15.9	11.7	13.9	14.8	15.2	16.4	17.5	18.6	19.6	20.1	22.3	22.6	22.8	22.1	22.4	22.7	22.4	22.7	23.2	22.6	22.8	23.4	21.6	22.4	22.8	19.6	20.1	20.9	17.3	17.9	18.5	13.6	14.4	15.7	18.4	19.2	19.9
29	13.8	15.0	15.6	11.1	13.9	15.5	14.3	16.4	17.8	18.6	20.0	20.7	22.2	22.5	23.0	21.9	22.3	22.7	22.3	22.7	23.0	22.6	22.8	23.4	21.9	22.4	22.9	19.4	20.3	21.0	17.4	18.0	18.6	13.5	14.4	15.2	18.2	19.2	19.9
30	13.1	14.8	15.7				14.1	16.3	17.1	18.4	19.7	20.4	21.8	22.5	22.8	21.7	22.2	22.5	22.3	22.6	22.9	22.6	22.8	23.3	21.8	22.3	23.0	19.0	20.1	20.6	16.3	17.5	18.0	12.9	14.1	14.8	18.5	19.5	20.1
31	12.5	14.2	15.1				15.5	16.7	17.3				22.0	22.5	22.9				22.4	22.7	23.1	22.7	22.9	23.5				19.1	19.8	20.4				13.0	14.0	14.8	18.1	19.0	19.6
Average	12.8	14.1	15.2	11.4	13.3	14.3	12.8	14.7	15.7	16.8	18.3	19.1	20.8	21.6	22.0	22.1	22.5	22.9	22.1	22.5	22.9	22.4	22.8	23.2	22.3	22.7	23.2	20.9	21.5	22.0	17.9	18.8	19.5	14.2	15.2	16.1	18.0	19.0	19.7
Extremes	2.6		24.8	0.9		22.6	-0.7		25.2	0.4		25.7	10.9		29.7	12.8		28.3	18.0		27.0	17.3		27.8	15.0		28.4	11.3		29.0	-5.8		28.3	-5.3		23.5	-5.8		29.7
StdD.		2.5			3.0			3.1			2.7			1.8			1.1			1.1			1.0			1.1			1.9			2.6			2.9			2.1	

ตารางแสดงผลข้อมูลปริมาณองศาวัน การทำความร้อนและการทำความเย็น (heating and cooling degree days)

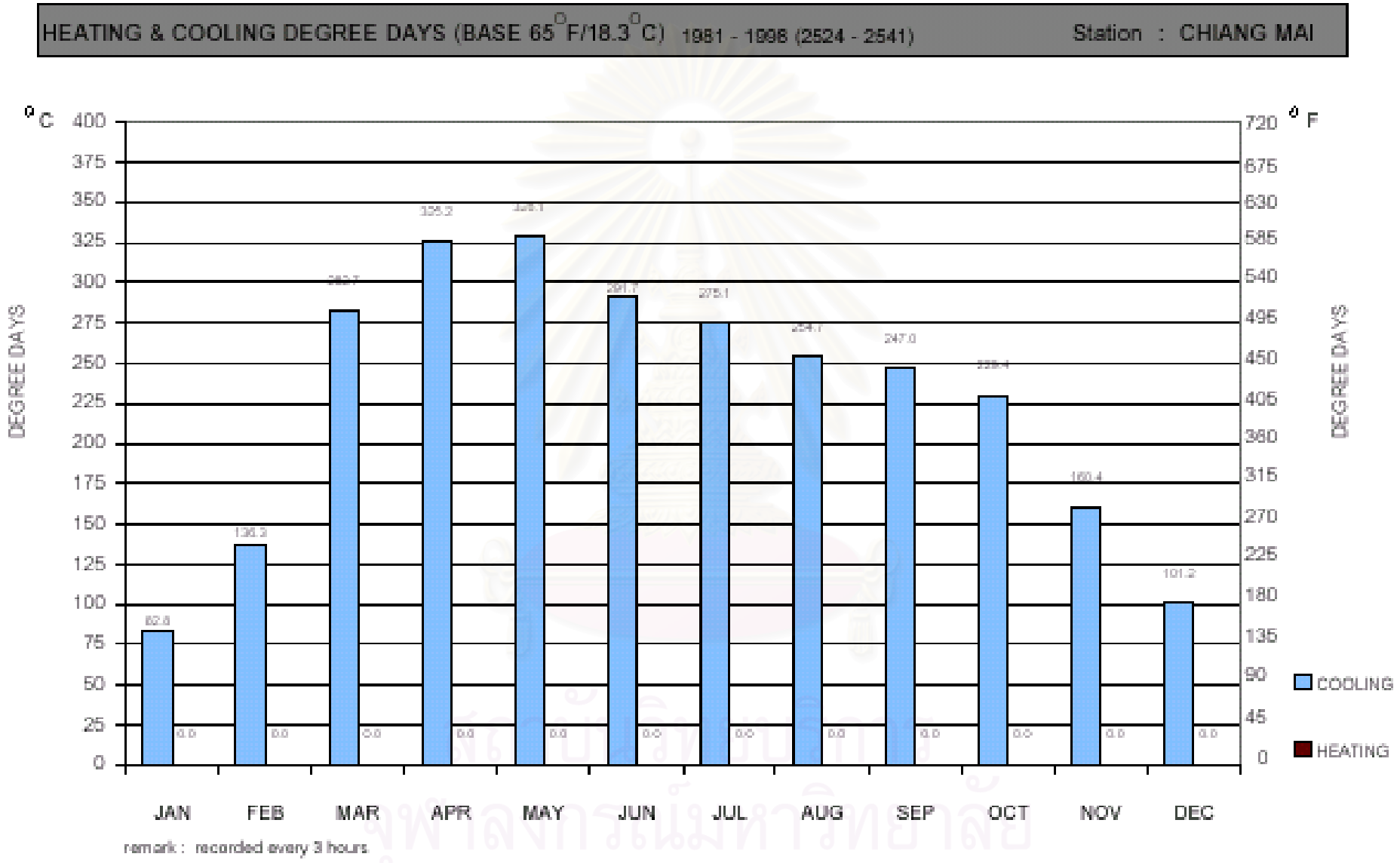
HEATING & COOLING DEGREE DAYS BASE RANGE 35 - 100 °F (1.7 - 37.8 °C) 1981 - 1998 (2524 - 2541) **Station : CHIANG MAI**

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	599.4	0.0	619.6	0.0	799.3	0.0	825.2	0.0	844.8	0.0	791.7	0.0	791.7	0.0	771.4	0.0	747.0	0.0	746.1	0.0	660.4	0.0	617.8	0.0	8,814.5	0.0
36	2.2	582.2	0.0	603.5	0.0	782.1	0.0	808.6	0.0	827.6	0.0	775.0	0.0	774.5	0.0	754.1	0.0	730.4	0.0	728.8	0.0	643.7	0.0	600.6	0.0	8,611.2	0.0
37	2.8	565.0	0.0	587.4	0.0	764.9	0.0	791.9	0.0	810.3	0.0	758.4	0.0	757.3	0.0	736.9	0.0	713.7	0.0	711.6	0.0	627.1	0.0	583.4	0.0	8,407.8	0.0
38	3.3	547.8	0.0	571.3	0.0	747.7	0.0	775.2	0.0	793.1	0.0	741.7	0.0	740.1	0.0	719.7	0.0	697.0	0.0	694.4	0.0	610.4	0.0	566.2	0.0	8,204.5	0.0
39	3.9	530.5	0.0	555.2	0.0	730.5	0.0	758.6	0.0	775.9	0.0	725.0	0.0	722.8	0.0	702.5	0.0	680.4	0.0	677.2	0.0	593.7	0.0	548.9	0.0	8,001.2	0.0
40	4.4	513.3	0.0	539.0	0.0	713.2	0.0	741.9	0.0	758.7	0.0	708.4	0.0	705.6	0.0	685.3	0.0	663.7	0.0	660.0	0.0	577.1	0.0	531.7	0.0	7,797.8	0.0
41	5.0	496.1	0.0	522.9	0.0	696.0	0.0	725.2	0.0	741.5	0.0	691.7	0.0	688.4	0.0	668.0	0.0	647.0	0.0	642.7	0.0	560.4	0.0	514.5	0.0	7,594.5	0.0
42	5.6	478.9	0.0	506.8	0.0	678.8	0.0	708.6	0.0	724.2	0.0	675.0	0.0	671.2	0.0	650.8	0.0	630.4	0.0	625.5	0.0	543.7	0.0	497.3	0.0	7,391.2	0.0
43	6.1	461.7	0.0	490.7	0.0	661.6	0.0	691.9	0.0	707.0	0.0	658.4	0.0	653.9	0.0	633.6	0.0	613.7	0.0	608.3	0.0	527.1	0.0	480.1	0.0	7,187.8	0.0
44	6.7	444.4	0.0	474.6	0.0	644.3	0.0	675.2	0.0	689.8	0.0	641.7	0.0	636.7	0.0	616.4	0.0	597.0	0.0	591.1	0.0	510.4	0.0	462.8	0.0	6,984.5	0.0
45	7.2	427.2	0.0	458.5	0.0	627.1	0.0	658.6	0.0	672.6	0.0	625.0	0.0	619.5	0.0	599.1	0.0	580.4	0.0	573.8	0.0	493.7	0.0	445.6	0.0	6,781.2	0.0
46	7.8	410.0	0.0	442.4	0.0	609.9	0.0	641.9	0.0	655.3	0.0	608.4	0.0	602.3	0.0	581.9	0.0	563.7	0.0	556.6	0.0	477.1	0.0	428.4	0.0	6,577.8	0.0
47	8.3	392.8	0.0	426.3	0.0	592.7	0.0	625.2	0.0	638.1	0.0	591.7	0.0	585.1	0.0	564.7	0.0	547.0	0.0	539.4	0.0	460.4	0.0	411.2	0.0	6,374.5	0.0
48	8.9	375.5	0.0	410.2	0.0	575.5	0.0	608.6	0.0	620.9	0.0	575.0	0.0	567.8	0.0	547.5	0.0	530.4	0.0	522.2	0.0	443.7	0.0	393.9	0.0	6,171.2	0.0
49	9.4	358.3	0.0	394.0	0.0	558.2	0.0	591.9	0.0	603.7	0.0	558.4	0.0	550.6	0.0	530.3	0.0	513.7	0.0	505.0	0.0	427.1	0.0	376.7	0.0	5,967.8	0.0
50	10.0	341.1	0.0	377.9	0.0	541.0	0.0	575.2	0.0	586.5	0.0	541.7	0.0	533.4	0.0	513.0	0.0	497.0	0.0	487.7	0.0	410.4	0.0	359.5	0.0	5,764.5	0.0
51	10.6	323.9	0.0	361.8	0.0	523.8	0.0	558.6	0.0	569.2	0.0	525.0	0.0	516.2	0.0	495.8	0.0	480.4	0.0	470.5	0.0	393.7	0.0	342.3	0.0	5,561.2	0.0
52	11.1	306.7	0.0	345.7	0.0	506.6	0.0	541.9	0.0	552.0	0.0	508.4	0.0	498.9	0.0	478.6	0.0	463.7	0.0	453.3	0.0	377.1	0.0	325.1	0.0	5,357.8	0.0
53	11.7	289.4	0.0	329.6	0.0	489.3	0.0	525.2	0.0	534.8	0.0	491.7	0.0	481.7	0.0	461.4	0.0	447.0	0.0	436.1	0.0	360.4	0.0	307.8	0.0	5,154.5	0.0
54	12.2	272.2	0.0	313.5	0.0	472.1	0.0	508.6	0.0	517.6	0.0	475.0	0.0	464.5	0.0	444.1	0.0	430.4	0.0	418.8	0.0	343.7	0.0	290.6	0.0	4,951.2	0.0
55	12.8	255.0	0.0	297.4	0.0	454.9	0.0	491.9	0.0	500.3	0.0	458.4	0.0	447.3	0.0	426.9	0.0	413.7	0.0	401.6	0.0	327.1	0.0	273.4	0.0	4,747.8	0.0
56	13.3	237.8	0.0	281.3	0.0	437.7	0.0	475.2	0.0	483.1	0.0	441.7	0.0	430.1	0.0	409.7	0.0	397.0	0.0	384.4	0.0	310.4	0.0	256.2	0.0	4,544.5	0.0
57	13.9	220.5	0.0	265.2	0.0	420.5	0.0	458.6	0.0	465.9	0.0	425.0	0.0	412.8	0.0	392.5	0.0	380.4	0.0	367.2	0.0	293.7	0.0	238.9	0.0	4,341.2	0.0
58	14.4	203.3	0.0	249.0	0.0	403.2	0.0	441.9	0.0	448.7	0.0	408.4	0.0	395.6	0.0	375.3	0.0	363.7	0.0	350.0	0.0	277.1	0.0	221.7	0.0	4,137.8	0.0
59	15.0	186.1	0.0	232.9	0.0	386.0	0.0	425.2	0.0	431.5	0.0	391.7	0.0	378.4	0.0	358.0	0.0	347.0	0.0	332.7	0.0	260.4	0.0	204.5	0.0	3,934.5	0.0
60	15.6	168.9	0.0	216.8	0.0	368.8	0.0	408.6	0.0	414.2	0.0	375.0	0.0	361.2	0.0	340.8	0.0	330.4	0.0	315.5	0.0	243.7	0.0	187.3	0.0	3,731.2	0.0
61	16.1	151.7	0.0	200.7	0.0	351.6	0.0	391.9	0.0	397.0	0.0	358.4	0.0	343.9	0.0	323.6	0.0	313.7	0.0	298.3	0.0	227.1	0.0	170.1	0.0	3,527.8	0.0
62	16.7	134.4	0.0	184.6	0.0	334.3	0.0	375.2	0.0	379.8	0.0	341.7	0.0	326.7	0.0	306.4	0.0	297.0	0.0	281.1	0.0	210.4	0.0	152.8	0.0	3,324.5	0.0
63	17.2	117.2	0.0	168.5	0.0	317.1	0.0	358.6	0.0	362.6	0.0	325.0	0.0	309.5	0.0	289.1	0.0	280.4	0.0	263.8	0.0	193.7	0.0	135.6	0.0	3,121.2	0.0
64	17.8	100.0	0.0	152.4	0.0	299.9	0.0	341.9	0.0	345.3	0.0	308.4	0.0	292.3	0.0	271.9	0.0	263.7	0.0	246.6	0.0	177.1	0.0	118.4	0.0	2,917.8	0.0
65	18.3	82.8	0.0	136.3	0.0	282.7	0.0	325.2	0.0	328.1	0.0	291.7	0.0	275.1	0.0	254.7	0.0	247.0	0.0	229.4	0.0	160.4	0.0	101.2	0.0	2,714.5	0.0
66	18.9	65.5	0.0	120.2	0.0	265.5	0.0	308.6	0.0	310.9	0.0	275.0	0.0	257.8	0.0	237.5	0.0	230.4	0.0	212.2	0.0	143.7	0.0	83.9	0.0	2,511.2	0.0
67	19.4	48.3	0.0	104.0	0.0	248.2	0.0	291.9	0.0	293.7	0.0	258.4	0.0	240.6	0.0	220.3	0.0	213.7	0.0	195.0	0.0	127.1	0.0	66.7	0.0	2,307.8	0.0
68	20.0	31.2	-0.1	87.9	0.0	231.0	0.0	275.2	0.0	276.5	0.0	241.7	0.0	223.4	0.0	203.0	0.0	197.0	0.0	177.7	0.0	110.4	0.0	50.5	-1.0	2,105.6	-1.1

HEATING & COOLING DEGREE DAYS BASE RANGE 35 - 100 °F (1.7 - 37.8 °C) 1981 - 1998 (2524 - 2541) Station : CHIANG MAI

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	15.2	-1.3	71.8	0.0	213.8	0.0	258.6	0.0	259.2	0.0	225.0	0.0	206.2	0.0	185.8	0.0	180.4	0.0	160.5	0.0	93.7	0.0	37.1	-4.8	1,907.4	-6.2
70	21.1	5.7	-9.0	55.7	0.0	196.6	0.0	241.9	0.0	242.0	0.0	208.4	0.0	188.9	0.0	168.6	0.0	163.7	0.0	143.3	0.0	77.1	0.0	24.6	-9.5	1,716.3	-18.5
71	21.7	2.3	-22.8	39.7	-0.1	179.3	0.0	225.2	0.0	224.8	0.0	191.7	0.0	171.7	0.0	151.4	0.0	147.0	0.0	126.1	0.0	60.4	0.0	13.8	-15.9	1,533.4	-38.8
72	22.2	0.1	-37.9	26.5	-3.1	162.1	0.0	208.6	0.0	207.6	0.0	175.0	0.0	154.5	0.0	134.1	0.0	130.4	0.0	108.8	0.0	43.7	0.0	7.7	-27.1	1,359.2	-68.0
73	22.8	0.0	-55.0	16.2	-8.8	144.9	0.0	191.9	0.0	190.3	0.0	158.4	0.0	137.3	0.0	116.9	0.0	113.7	0.0	91.6	0.0	27.1	0.0	4.0	-40.6	1,192.3	-104.4
74	23.3	0.0	-72.2	8.2	-17.0	127.7	0.0	175.2	0.0	173.1	0.0	141.7	0.0	120.1	0.0	99.7	0.0	97.0	0.0	74.4	0.0	12.7	-2.3	1.2	-55.0	1,031.1	-146.5
75	23.9	0.0	-89.5	3.1	-27.9	110.5	0.0	158.6	0.0	155.9	0.0	125.0	0.0	102.8	0.0	82.5	0.0	80.4	0.0	57.2	0.0	3.7	-10.0	0.0	-71.1	879.5	-198.4
76	24.4	0.0	-106.7	0.5	-41.5	93.2	0.0	141.9	0.0	138.7	0.0	108.4	0.0	85.6	0.0	65.3	0.0	63.7	0.0	40.0	0.0	0.5	-23.5	0.0	-88.3	737.7	-259.9
77	25.0	0.0	-123.9	0.0	-57.1	76.0	0.0	125.2	0.0	121.5	0.0	91.7	0.0	68.4	0.0	48.0	0.0	47.0	0.0	22.9	-0.2	0.0	-39.6	0.0	-105.5	600.8	-326.3
78	25.6	0.0	-141.1	0.0	-73.2	58.8	0.0	108.6	0.0	104.2	0.0	75.0	0.0	51.2	0.0	30.8	0.0	30.4	0.0	9.7	-4.1	0.0	-56.3	0.0	-122.7	468.6	-397.4
79	26.1	0.0	-158.3	0.0	-89.3	43.1	-1.5	91.9	0.0	87.0	0.0	58.4	0.0	34.1	-0.2	14.9	-1.3	14.0	-0.2	2.0	-13.7	0.0	-72.9	0.0	-139.9	345.3	-477.5
80	26.7	0.0	-175.6	0.0	-105.4	29.0	-4.6	75.2	0.0	69.8	0.0	41.7	0.0	17.5	-0.8	4.8	-8.5	1.7	-4.6	0.0	-28.9	0.0	-89.6	0.0	-157.2	239.7	-575.2
81	27.2	0.0	-192.8	0.0	-121.5	18.6	-11.5	58.6	0.0	52.6	0.0	25.0	0.0	5.7	-6.2	0.2	-21.1	0.0	-19.6	0.0	-46.2	0.0	-106.3	0.0	-174.4	160.6	-699.4
82	27.8	0.0	-210.0	0.0	-137.6	9.9	-20.0	41.9	0.0	35.3	0.0	10.0	-1.6	0.4	-18.1	0.0	-38.1	0.0	-36.3	0.0	-63.4	0.0	-122.9	0.0	-191.6	97.5	-839.7
83	28.3	0.0	-227.2	0.0	-153.7	2.4	-29.8	25.3	-0.1	20.3	-2.2	2.8	-11.1	0.0	-34.9	0.0	-55.3	0.0	-53.0	0.0	-80.6	0.0	-139.6	0.0	-208.8	50.8	-996.3
84	28.9	0.0	-244.5	0.0	-169.8	0.0	-44.6	12.5	-3.9	9.7	-8.8	0.4	-25.4	0.0	-52.2	0.0	-72.5	0.0	-69.6	0.0	-97.8	0.0	-156.3	0.0	-226.1	22.6	-1,171.4
85	29.4	0.0	-261.7	0.0	-186.0	0.0	-61.8	4.2	-12.3	4.5	-20.8	0.0	-41.6	0.0	-69.4	0.0	-89.7	0.0	-86.3	0.0	-115.0	0.0	-172.9	0.0	-243.3	8.7	-1,360.9
86	30.0	0.0	-278.9	0.0	-202.1	0.0	-79.0	0.5	-25.3	1.3	-34.9	0.0	-58.3	0.0	-86.6	0.0	-107.0	0.0	-103.0	0.0	-132.3	0.0	-189.6	0.0	-260.5	1.8	-1,557.3
87	30.6	0.0	-296.1	0.0	-218.2	0.0	-96.2	0.0	-41.4	0.0	-50.8	0.0	-75.0	0.0	-103.8	0.0	-124.2	0.0	-119.6	0.0	-149.5	0.0	-206.3	0.0	-277.7	0.0	-1,758.8
88	31.1	0.0	-313.3	0.0	-234.3	0.0	-113.4	0.0	-58.1	0.0	-68.0	0.0	-91.6	0.0	-121.1	0.0	-141.4	0.0	-136.3	0.0	-166.7	0.0	-222.9	0.0	-294.9	0.0	-1,962.2
89	31.7	0.0	-330.6	0.0	-250.4	0.0	-130.7	0.0	-74.8	0.0	-85.2	0.0	-108.3	0.0	-138.3	0.0	-158.6	0.0	-153.0	0.0	-183.9	0.0	-239.6	0.0	-312.2	0.0	-2,165.5
90	32.2	0.0	-347.8	0.0	-266.5	0.0	-147.9	0.0	-91.4	0.0	-102.4	0.0	-125.0	0.0	-155.5	0.0	-175.9	0.0	-169.6	0.0	-201.2	0.0	-256.3	0.0	-329.4	0.0	-2,368.8
91	32.8	0.0	-365.0	0.0	-282.6	0.0	-165.1	0.0	-108.1	0.0	-119.7	0.0	-141.6	0.0	-172.7	0.0	-193.1	0.0	-186.3	0.0	-218.4	0.0	-272.9	0.0	-346.6	0.0	-2,572.2
92	33.3	0.0	-382.2	0.0	-298.7	0.0	-182.3	0.0	-124.8	0.0	-136.9	0.0	-158.3	0.0	-189.9	0.0	-210.3	0.0	-203.0	0.0	-235.6	0.0	-289.6	0.0	-363.8	0.0	-2,775.5
93	33.9	0.0	-399.5	0.0	-314.8	0.0	-199.5	0.0	-141.4	0.0	-154.1	0.0	-175.0	0.0	-207.2	0.0	-227.5	0.0	-219.6	0.0	-252.8	0.0	-306.3	0.0	-381.1	0.0	-2,978.8
94	34.4	0.0	-416.7	0.0	-331.0	0.0	-216.8	0.0	-158.1	0.0	-171.3	0.0	-191.6	0.0	-224.4	0.0	-244.7	0.0	-236.3	0.0	-270.0	0.0	-322.9	0.0	-398.3	0.0	-3,182.2
95	35.0	0.0	-433.9	0.0	-347.1	0.0	-234.0	0.0	-174.8	0.0	-188.5	0.0	-208.3	0.0	-241.6	0.0	-262.0	0.0	-253.0	0.0	-287.3	0.0	-339.6	0.0	-415.5	0.0	-3,385.5
96	35.6	0.0	-451.1	0.0	-363.2	0.0	-251.2	0.0	-191.4	0.0	-205.8	0.0	-225.0	0.0	-258.8	0.0	-279.2	0.0	-269.6	0.0	-304.5	0.0	-356.3	0.0	-432.7	0.0	-3,588.8
97	36.1	0.0	-468.3	0.0	-379.3	0.0	-268.4	0.0	-208.1	0.0	-223.0	0.0	-241.6	0.0	-276.1	0.0	-296.4	0.0	-286.3	0.0	-321.7	0.0	-372.9	0.0	-449.9	0.0	-3,792.2
98	36.7	0.0	-485.6	0.0	-395.4	0.0	-285.7	0.0	-224.8	0.0	-240.2	0.0	-258.3	0.0	-293.3	0.0	-313.6	0.0	-303.0	0.0	-338.9	0.0	-389.6	0.0	-467.2	0.0	-3,995.5
99	37.2	0.0	-502.8	0.0	-411.5	0.0	-302.9	0.0	-241.4	0.0	-257.4	0.0	-275.0	0.0	-310.5	0.0	-330.9	0.0	-319.6	0.0	-356.2	0.0	-406.3	0.0	-484.4	0.0	-4,198.8
100	37.8	0.0	-520.0	0.0	-427.6	0.0	-320.1	0.0	-258.1	0.0	-274.7	0.0	-291.6	0.0	-327.7	0.0	-348.1	0.0	-336.3	0.0	-373.4	0.0	-422.9	0.0	-501.6	0.0	-4,402.2

แผนภูมิองศาวัน การทำความร้อนและการทำความเย็น (heating and cooling degree days)

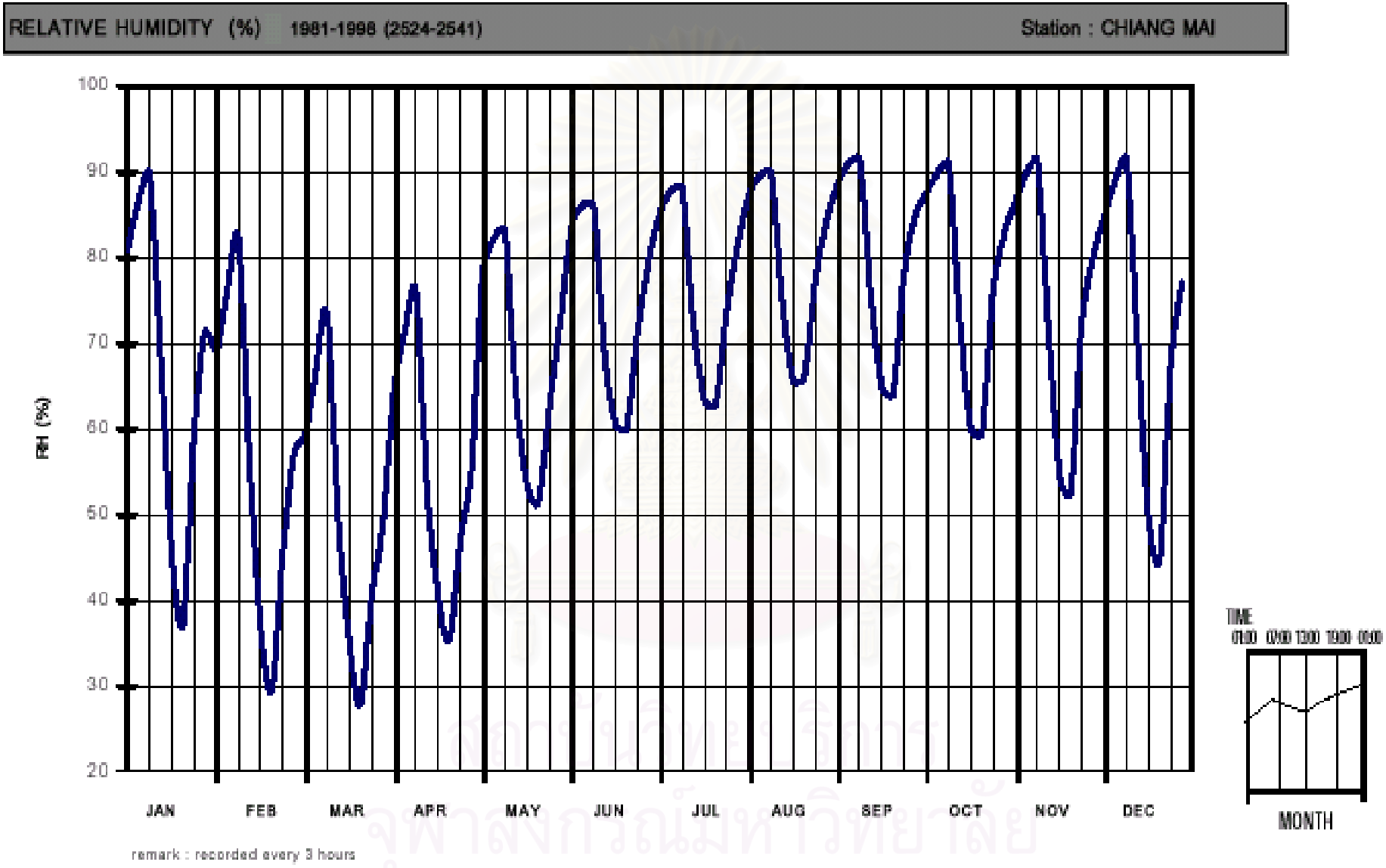


ตารางแสดงผลข้อมูลความชื้นสัมพัทธ์ (relative humidity)

RELATIVE HUMIDITY (%) 1981 - 1998 (2524 - 2541) — **Station : CHIANG MAI**

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	40.8	71.9	91.9	33.2	61.8	85.3	28.4	51.8	75.2	28.7	50.7	75.6	39.3	58.7	77.2	58.6	75.6	88.3	59.1	73.1	84.2	66.4	81.1	89.9	67.9	82.5	92.5	59.1	77.9	90.8	55.0	74.3	89.4	48.4	71.9	89.7	48.7	69.3	85.8
2	41.3	71.2	91.9	34.2	61.3	85.5	31.8	53.1	73.9	27.8	48.4	71.9	37.7	57.3	76.7	59.4	74.8	88.2	58.7	71.9	83.9	66.4	80.0	89.4	66.0	80.6	92.1	59.8	78.2	90.8	52.7	74.4	91.3	48.5	72.0	89.1	48.7	68.6	85.4
3	39.7	70.5	91.9	34.6	61.6	86.1	29.4	52.8	75.4	30.0	49.4	70.9	41.9	59.6	77.8	58.7	74.7	86.6	59.8	72.8	83.5	62.3	78.2	90.1	62.8	80.1	91.4	59.6	77.8	89.9	54.9	75.8	91.9	44.4	72.3	92.1	48.2	68.8	85.6
4	39.4	69.7	91.7	30.4	59.5	85.8	29.0	52.3	75.9	30.4	50.5	71.7	43.2	61.4	79.0	56.6	74.5	87.3	62.3	75.2	86.2	63.4	78.7	89.9	63.9	79.6	91.2	61.2	78.1	91.3	56.9	76.7	91.7	45.3	72.6	91.3	48.5	69.1	86.1
5	41.3	69.5	90.3	30.6	58.4	83.6	29.8	52.1	76.6	31.0	51.2	71.1	49.1	64.9	80.4	57.1	74.1	87.9	63.1	77.0	87.9	67.6	80.1	89.1	64.8	80.8	91.3	62.5	78.5	90.3	55.6	76.0	91.7	45.4	72.8	92.8	49.8	69.6	86.1
6	39.9	69.1	90.5	29.4	59.1	85.7	29.4	52.1	76.4	35.0	53.8	73.1	47.3	66.3	83.3	59.8	75.1	86.8	62.1	76.7	87.7	65.1	78.2	89.2	65.7	80.2	91.6	62.3	79.0	90.6	53.5	74.5	91.7	48.7	73.0	90.5	49.8	69.8	86.4
7	37.6	69.0	90.9	29.8	58.1	84.5	26.7	51.4	76.0	36.3	55.7	76.5	47.0	64.7	81.9	61.1	77.1	87.6	63.7	77.2	89.4	61.9	76.8	89.5	70.1	82.0	92.6	61.3	78.8	91.6	52.1	74.4	92.4	44.4	71.2	91.3	49.3	69.7	87.0
8	39.9	70.6	91.5	29.3	58.4	84.1	26.5	50.2	73.6	33.4	54.0	75.6	50.6	66.6	81.6	61.8	77.1	88.1	61.1	75.8	88.6	61.1	76.7	89.3	64.9	80.7	92.1	61.4	79.5	91.1	55.9	75.7	91.3	44.6	70.8	91.1	49.2	69.7	86.5
9	35.8	68.5	91.6	29.8	59.0	84.3	28.4	52.0	75.7	32.8	52.8	76.0	46.9	67.0	83.7	63.7	78.1	89.6	57.6	75.3	87.6	61.9	76.2	88.2	64.6	80.6	92.4	65.7	81.0	91.8	55.1	76.0	90.4	43.5	72.4	92.2	48.8	69.9	87.0
10	35.1	67.7	90.3	29.3	57.7	83.7	28.4	51.5	73.3	32.9	51.8	74.6	50.3	66.5	81.1	60.1	76.9	89.3	61.4	78.3	89.9	62.2	77.2	87.6	67.0	81.6	92.4	61.5	79.8	92.9	52.1	72.7	88.5	44.4	71.8	90.5	48.7	69.5	86.2
11	35.3	68.1	90.1	29.8	57.6	83.1	27.7	50.0	75.0	31.9	51.8	74.4	51.6	67.3	82.1	61.7	76.5	86.2	64.0	77.8	89.2	64.1	78.0	89.8	62.1	80.2	91.4	60.0	79.1	92.4	51.3	74.1	89.7	46.9	73.0	91.2	48.9	69.5	86.2
12	38.3	68.6	90.9	28.6	57.5	82.9	28.6	49.9	73.1	32.2	52.2	72.3	48.4	66.3	83.7	62.1	77.1	86.9	60.1	76.7	89.9	63.8	77.8	88.2	64.3	80.5	91.5	61.8	79.5	91.2	51.4	75.0	92.1	45.2	73.1	92.2	48.7	69.5	86.2
13	36.9	68.4	91.6	28.5	57.2	83.8	24.6	48.1	72.9	31.7	53.6	75.1	45.9	65.2	82.8	61.4	76.6	88.6	60.3	75.0	87.7	60.8	76.9	88.5	61.3	79.2	91.9	59.2	77.8	91.9	53.3	75.3	91.7	43.8	72.6	92.1	47.3	68.8	86.6
14	37.4	66.9	89.3	25.3	56.0	83.8	27.6	47.9	70.9	36.1	55.4	76.5	49.5	67.3	81.8	60.0	74.5	86.2	57.4	75.7	89.8	65.4	78.6	88.9	64.8	80.1	92.4	58.9	77.7	91.6	53.3	75.5	90.8	46.1	73.0	93.1	48.5	69.0	86.3
15	37.4	67.3	89.1	25.7	53.9	81.8	26.6	48.4	71.4	34.2	55.2	76.2	51.9	68.0	83.1	56.1	73.3	86.1	61.6	76.2	88.0	70.2	81.4	90.3	63.9	80.2	91.7	60.7	78.4	90.9	55.0	75.4	91.9	45.1	71.4	90.7	49.0	69.1	85.9
16	38.6	68.4	90.3	26.3	53.8	81.7	25.3	48.8	73.4	34.2	55.4	76.4	52.2	68.2	81.4	56.9	72.5	86.8	60.5	76.7	88.1	65.9	80.5	92.0	63.8	79.5	91.3	59.6	77.5	90.7	53.9	75.3	90.2	45.3	71.4	89.4	48.5	69.0	86.0
17	37.2	67.4	90.3	25.9	53.7	79.9	24.6	46.7	71.4	36.6	55.9	77.3	52.6	69.3	82.3	56.1	71.6	84.4	60.7	76.4	88.9	64.9	78.9	89.3	63.2	80.8	91.8	62.8	77.8	89.7	54.2	76.1	92.4	45.2	72.4	90.9	48.7	68.9	85.7
18	34.6	66.2	90.8	26.6	53.3	80.2	25.7	47.0	70.4	36.9	57.4	78.4	54.1	70.4	83.4	59.6	73.6	83.7	64.2	76.8	88.4	65.8	80.2	90.9	64.3	79.1	89.8	60.6	78.5	91.9	54.3	76.4	91.3	43.4	72.0	91.8	49.2	69.2	85.9
19	35.4	66.7	89.6	28.6	54.8	79.0	26.4	48.3	70.6	40.4	58.2	77.4	56.2	71.3	84.1	57.4	73.9	86.4	61.7	75.5	86.0	69.3	81.3	90.5	61.3	79.1	90.7	60.1	78.5	90.9	53.6	76.4	91.8	42.9	71.2	91.7	49.4	69.6	85.7
20	36.7	66.9	89.1	31.3	56.6	80.5	25.7	48.1	72.7	36.9	57.6	78.9	54.7	70.0	83.4	62.3	74.8	84.3	58.8	76.7	89.2	66.8	80.6	90.8	61.9	79.6	92.8	60.8	78.6	91.4	53.4	75.3	91.9	43.0	71.9	92.6	49.4	69.7	86.5
21	37.4	66.7	89.2	34.4	57.9	79.4	25.6	48.1	71.8	40.9	59.0	77.7	51.9	70.7	85.3	55.2	72.7	85.6	63.6	77.5	88.6	62.8	79.0	90.2	65.1	80.6	92.3	61.3	78.2	89.9	49.6	74.1	91.9	44.7	71.1	91.4	49.4	69.6	86.1
22	34.5	65.3	87.9	30.7	56.6	81.6	27.4	47.3	69.1	36.2	57.1	79.7	54.1	71.2	86.5	56.9	71.2	84.7	60.5	76.5	88.2	62.5	77.1	88.8	58.6	77.6	90.2	56.2	76.6	93.2	51.2	75.5	92.3	44.8	71.7	91.6	47.8	68.6	86.1
23	32.2	63.7	87.8	30.6	55.5	79.7	24.9	47.1	72.3	36.8	57.7	76.0	51.1	70.7	85.9	59.4	72.6	82.9	63.8	78.6	89.2	68.0	80.9	89.7	62.6	78.8	90.8	55.9	75.5	90.0	49.7	74.3	92.3	44.6	72.3	91.9	48.3	69.0	85.7
24	35.2	64.0	86.1	28.3	54.5	79.2	27.3	48.2	69.8	37.4	57.1	75.9	53.1	71.7	84.8	59.6	73.8	85.7	64.8	79.3	90.2	67.2	81.7	92.1	61.7	78.7	91.3	55.2	75.6	90.2	49.4	72.8	90.9	44.7	72.2	90.8	48.7	69.1	85.6
25	35.2	64.4	87.7	31.3	54.8	78.8	25.9	48.8	72.2	37.1	57.5	77.2	57.8	74.1	88.1	57.3	73.2	85.8	65.8	80.3	91.4	66.5	81.1	90.7	61.9	78.3	90.9	54.2	75.4	90.9	47.1	71.9	91.0	40.6	70.2	91.7	48.4	69.2	86.4
26	36.7	64.5	87.7	31.3	54.9	78.2	30.8	50.9	72.3	37.7	59.6	77.7	52.4	72.0	87.2	59.8	73.4	85.2	65.1	78.9	89.9	67.8	82.2	91.1	59.5	78.0	91.4	55.1	76.6	92.0	49.7	72.8	91.0	42.4	71.3	92.0	49.0	69.6	86.3
27	37.7	64.9	88.5	28.5	53.6	79.3	34.5	52.4	73.6	44.2	61.4	78.9	55.9	72.4	86.7	61.5	75.0	86.4	62.4	77.6	89.3	65.8	81.3	93.2	63.6	79.1	90.2	54.9	75.2	91.0	50.3	74.4	91.1	44.3	71.2	90.0	50.3	69.9	86.5
28	38.3	66.1	87.7	27.6	53.0	78.3	40.0	54.7	73.6	40.7	61.3	80.7	58.7	74.3	87.9	60.1	75.2	86.5	65.9	78.6	88.9	62.7	78.4	91.1	60.3	77.7	91.4	54.7	75.0	88.9	49.9	74.0	91.7	45.3	72.3	91.9	50.3	70.1	86.6
29	38.9	66.3	86.9	27.5	54.5	82.3	29.2	52.2	75.6	42.8	62.3	79.9	63.8	77.2	88.5	59.7	75.2	86.9	63.6	78.3	90.1	63.7	78.5	88.9	61.1	77.9	90.3	53.4	74.8	91.1	52.4	74.2	90.5	42.3	71.4	91.4	49.9	70.2	86.9
30	35.5	65.0	88.3				29.5	50.8	73.4	41.2	61.4	79.7	58.9	75.1	88.6	58.1	73.8	86.8	65.0	78.4	88.5	67.1	81.8	91.4	60.3	78.6	91.4	51.8	74.1	89.8	48.2	72.8	91.5	40.6	70.8	91.9	50.6	71.1	87.4
31	33.1	63.1	88.4				31.5	51.3	73.5				56.7	73.6	86.2				68.5	80.9	89.4	67.9	82.6	92.2				53.2	72.7	89.4				41.5	70.7	91.2	50.4	70.7	87.2
Average	37.2	67.3	89.7	29.6	56.7	82.1	28.3	50.1	73.3	35.5	55.5	76.1	51.1	68.4	83.4	59.3	74.6	86.5	62.2	76.8	88.3	65.1	79.4	90.0	63.4	79.7	91.5	58.9	77.5	91.0	52.5	74.7	91.3	44.5	71.9	91.4	49.0	69.4	86.2
Extremes	17		99	14		99	15		98	15		99	22		99	21		100	29		99	41		100	34		100	31		100	30		99	25		99	14		100
StdD.		19.0			19.7			17.6			18.2			17.2			13.6			13.4			12.8			13.1			14.4			16.2			17.9			16.1	

แผนภูมิความชื้นสัมพัทธ์ (relative humidity)



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

MONTHLY FREQUENCY DISTRIBUTION OF WIND IN EACH SPEED AND DIRECTION 1981 - 1998 (2524 - 2541) Station : CHIANG MAI

January

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											57.3	57.3
1-3	2-6	0.6-1.5	4.1	2.2	2.3	2.9	5.6	4.7	3.5	2		27.3
4-16	7-30	1.6-8.5	2.1	1	0.3	1	5	4	1.8	0.2		15.2
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
Total			8.2	3.2	2.6	3.9	10.6	8.7	5.1	2.2	57.3	100

February

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											46.7	46.7
1-3	2-6	0.6-1.5	5.7	2.9	2.2	2.6	5.7	4.5	3.2	2.2		29
4-16	7-30	1.6-8.5	2.4	1.7	1	2.6	7.8	5.1	2.8	0.6		24
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
Total			8.1	4.6	3.2	5.2	13.5	9.8	6	2.6	46.7	100

March

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											35.4	35.4
1-3	2-6	0.6-1.5	4.7	2.8	2.3	2.8	5	4.2	3.9	1.7		27.4
4-16	7-30	1.6-8.5	2.3	1.6	0.8	3.4	12	8.7	4	0.8		33.6
17-27	31-50	8.6-14	0.3	0	0	0	0	0	0.1	0		0.4
>27	>50	>14	0	0	0	0	0	0	0	0		0
Total			7.3	4.4	3.1	6.2	17	12.9	8	2.5	35.4	100

April

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											30.5	30.5
1-3	2-6	0.6-1.5	3.7	2.7	2.3	2.8	4.7	4.5	3.1	1.5		25.3
4-16	7-30	1.6-8.5	4.4	2.8	1.5	4.5	12.7	12.2	4.1	1.2		43.4
17-27	31-50	8.6-14	0.3	0	0	0	0.1	0.1	0.1	0		0.8
>27	>50	>14	0.1	0	0	0	0	0	0	0		0.1
Total			8.5	5.5	3.8	7.3	17.5	16.8	7.3	2.7	30.5	100

May

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											29	29
1-3	2-6	0.6-1.5	3.5	2.6	1.8	2.6	5.8	4.9	3	0.8		25
4-16	7-30	1.6-8.5	4.5	2.9	1.3	3.6	13.1	14.9	4.3	0.7		45.3
17-27	31-50	8.6-14	0.2	0	0	0	0.1	0.2	0.1	0		0.8
>27	>50	>14	0	0	0	0	0	0	0	0		0
Total			8.2	5.5	3.1	6.2	19	20	7.4	1.5	29	100

June

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											28.6	28.6
1-3	2-6	0.6-1.5	3.6	2.5	1.5	2.2	8	8	3.8	1.3		26.7
4-16	7-30	1.6-8.5	2.9	1.5	0.7	3	13.3	17.2	4.9	0.7		44.2
17-27	31-50	8.6-14	0	0	0	0	0.1	0.2	0	0		0.3
>27	>50	>14	0	0	0	0	0	0	0	0		0
Total			6.5	4	2.2	5.2	19.4	23.4	8.5	2	28.6	100

July

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											34.6	34.6
1-3	2-6	0.6-1.5	3.8	3.2	1.8	2.2	5.7	5.9	3.2	1.1		26.5
4-16	7-30	1.6-8.5	3.5	1.3	0.9	2.4	11.2	14.5	4.2	0.5		38.5
17-27	31-50	8.6-14	0	0	0	0	0.1	0.2	0	0		0.3
>27	>50	>14	0	0	0	0	0	0	0	0		0
Total			7.1	4.5	2.5	4.6	17	20.6	7.4	1.8	34.6	100

August

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											38.2	38.2
1-3	2-6	0.6-1.5	4.3	3	1.3	2.4	8.1	5.2	2.8	1.1		28.2
4-16	7-30	1.6-8.5	3.2	1.8	0.9	2.1	10.8	12.4	4	0.5		35.3
17-27	31-50	8.6-14	0	0	0	0	0.1	0	0	0		0.1
>27	>50	>14	0	0	0	0	0	0	0	0		0
Total			7.5	4.8	2.2	4.5	16.8	17.8	6.8	1.8	38.2	100

September

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											40.3	40.3
1-3	2-6	0.6-1.5	4.9	3.4	1.9	2.3	5.4	4.5	3.3	1.5		27.2
4-16	7-30	1.6-8.5	4.7	2.6	1	2.3	8.9	8.3	3.8	0.6		32.2
17-27	31-50	8.6-14	0	0	0	0	0	0.1	0	0		0.1
>27	>50	>14	0	0	0	0	0	0	0	0		0
Total			9.6	6	2.9	4.6	14.3	12.9	7.1	2.1	40.3	100

October

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											44.5	44.5
1-3	2-6	0.6-1.5	5.1	3.1	1.5	1.9	5	4.8	3.2	1.5		25.9
4-16	7-30	1.6-8.5	8	3.4	1.1	1.7	6.6	5.4	2.2	0.8		29.2
17-27	31-50	8.6-14	0.2	0	0	0	0	0	0	0		0.2
>27	>50	>14	0	0	0	0	0	0	0	0		0
Total			13.3	6.5	2.6	3.6	11.6	10	5.4	2.3	44.5	100

November

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											49.7	49.7
1-3	2-6	0.6-1.5	4.5	2.8	1.4	1.7	4.2	4.7	4	2.1		25.2
4-16	7-30	1.6-8.5	8.2	2.8	1.2	1.5	3.8	3.8	2.7	0.5		24.5
17-27	31-50	8.6-14	0.2	0	0	0	0	0	0	0		0.2
>27	>50	>14	0	0	0	0	0	0	0	0		0
Total			12.9	5.4	2.6	3.2	8	8.5	6.7	2.8	49.7	100

December

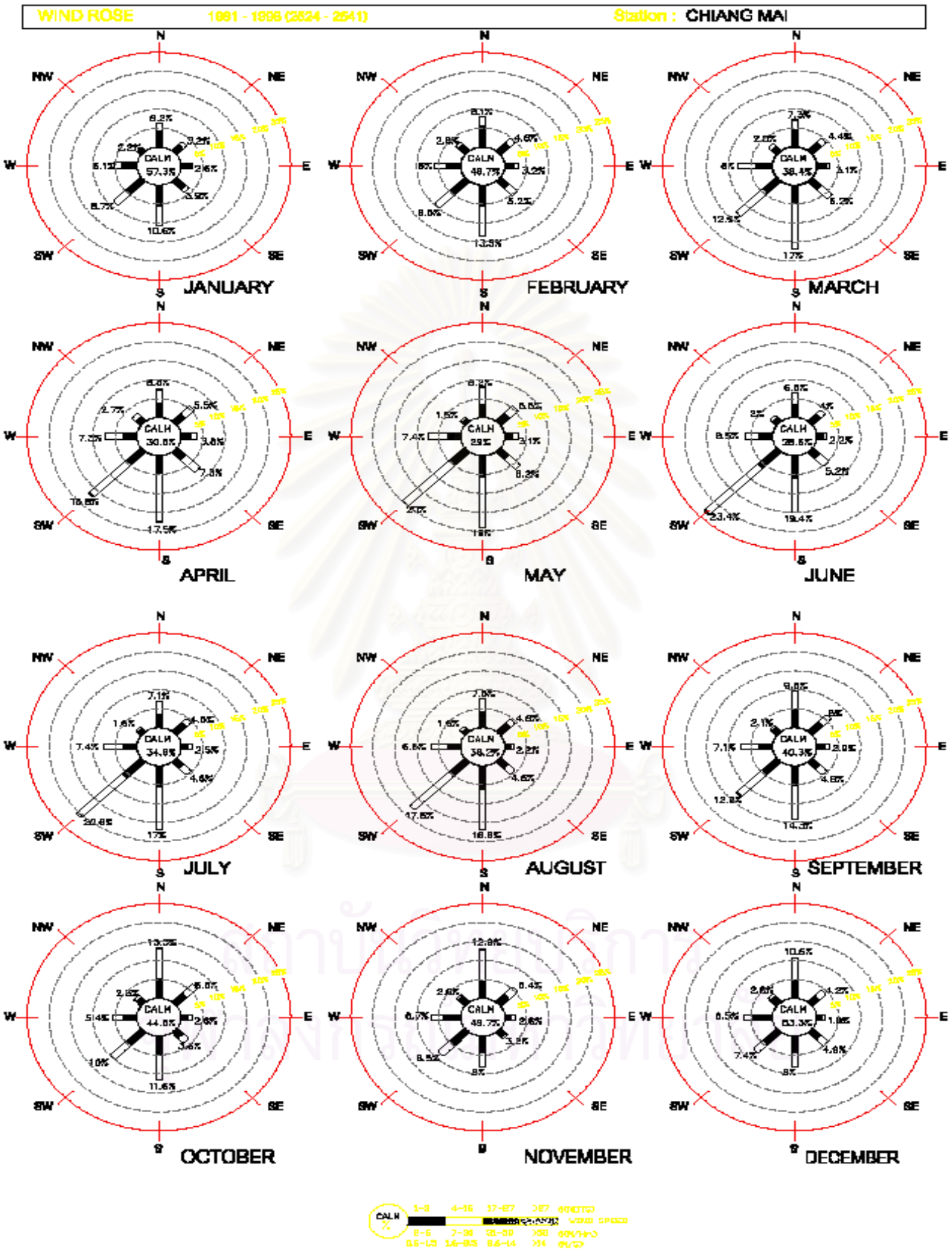
kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											53.3	53.3
1-3	2-6	0.6-1.5	4.9	2.2	1.3	2.8	4.3	4.5	4.5	2		26.3
4-16	7-30	1.6-8.5	5.6	2	0.6	2.3	3.7	2.9	2.1	0.8		20
17-27	31-50	8.6-14	0.1	0	0	0	0	0	0	0		0.1
>27	>50	>14	0	0	0	0	0	0	0	0		0
Total			10.6	4.2	1.9	4.9	8	7.4	6.6	2.8	53.3	100

remark : kts = KNOTS

1 kts = 1.853 km/h = 0.514 m/s

* this label shows the frequency of wind speed & direction in percent

แผนภูมิจำแนกความถี่ของลม ในแต่ละความเร็วและทิศทาง ที่เกิดลมรายเดือน (wind rose)



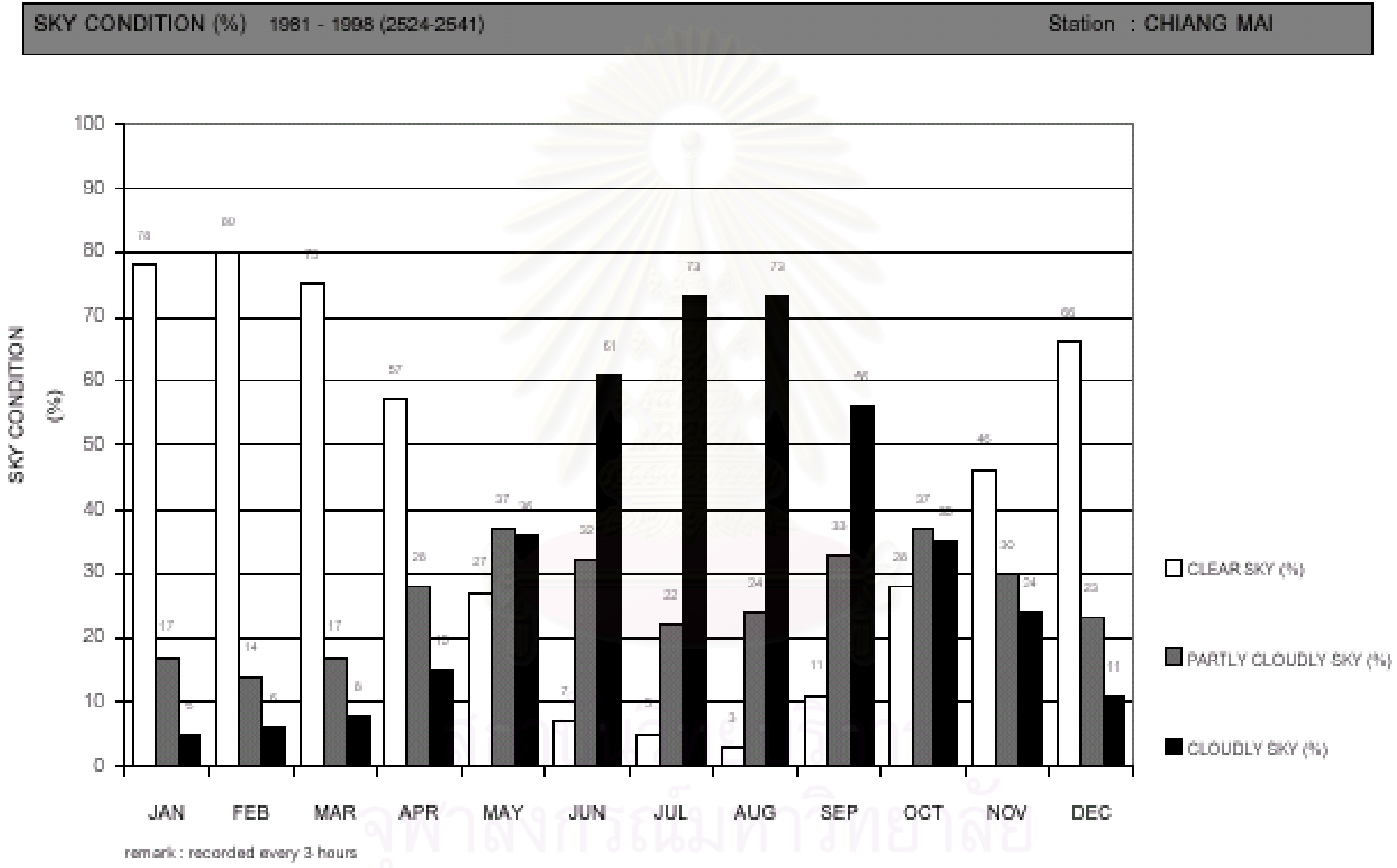
ตารางแสดงผลข้อมูลสภาพท้องฟ้าและสัดส่วนเปอร์เซ็นต์สภาพท้องฟ้า (sky cover and percentage of sky condition)

SKY COVER (%) & SKY CONDITION 1981 - 1998 (2524 - 2541) **Station : CHIANG MAI**

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		
	Clr	Part	Cld	Clr	Part	Cld	Clr	Part	Cld	Clr	Part	Cld	Clr	Part	Cld	Clr	Part	Cld	Clr	Part	Cld	Clr	Part	Cld	Clr	Part	Cld	Clr	Part	Cld	Clr	Part	Cld	Clr	Part	Cld	Clr	Part	Cld
1	76%	19%	5%	79%	14%	7%	81%	17%	2%	74%	21%	6%	49%	39%	13%	13%	34%	53%	7%	33%	60%	1%	17%	82%	4%	23%	74%	17%	33%	50%	43%	29%	28%	58%	25%	17%	42%	25%	33%
2	79%	16%	4%	71%	20%	9%	71%	16%	13%	77%	14%	9%	45%	41%	14%	8%	38%	54%	7%	21%	72%	1%	20%	79%	4%	22%	74%	14%	43%	43%	43%	38%	19%	60%	18%	21%	40%	26%	34%
3	79%	15%	6%	79%	15%	5%	71%	14%	15%	72%	23%	5%	47%	29%	24%	10%	30%	60%	4%	22%	74%	4%	31%	65%	4%	26%	70%	15%	40%	44%	37%	29%	34%	68%	29%	3%	41%	25%	34%
4	77%	21%	1%	85%	7%	8%	67%	23%	10%	76%	18%	5%	46%	35%	20%	8%	35%	57%	4%	22%	74%	1%	18%	80%	2%	36%	62%	11%	42%	47%	40%	24%	36%	67%	28%	5%	40%	26%	34%
5	74%	22%	4%	80%	12%	8%	80%	10%	10%	72%	18%	10%	40%	26%	35%	10%	32%	59%	2%	10%	88%	1%	19%	80%	4%	30%	65%	13%	37%	51%	42%	29%	29%	68%	23%	10%	40%	22%	37%
6	68%	23%	9%	85%	12%	3%	87%	10%	3%	69%	18%	13%	32%	37%	32%	6%	35%	60%	2%	21%	77%	5%	29%	65%	7%	28%	65%	9%	42%	49%	49%	31%	20%	49%	42%	10%	39%	27%	34%
7	71%	26%	4%	75%	17%	8%	85%	12%	4%	69%	18%	13%	30%	37%	33%	7%	34%	60%	3%	24%	73%	4%	21%	74%	4%	25%	71%	18%	35%	48%	60%	26%	14%	63%	26%	11%	41%	25%	34%
8	81%	13%	6%	74%	21%	5%	73%	18%	10%	71%	24%	6%	32%	37%	31%	3%	29%	68%	3%	29%	68%	1%	29%	70%	5%	33%	62%	21%	37%	43%	54%	19%	27%	57%	29%	14%	40%	26%	34%
9	85%	10%	5%	71%	24%	5%	74%	13%	13%	79%	17%	4%	30%	35%	35%	4%	32%	63%	6%	22%	72%	0%	29%	71%	8%	33%	59%	18%	36%	46%	45%	21%	35%	64%	26%	10%	40%	25%	35%
10	86%	10%	4%	89%	10%	1%	79%	12%	10%	74%	16%	10%	32%	32%	35%	4%	34%	63%	1%	21%	79%	2%	24%	74%	10%	27%	63%	21%	44%	35%	50%	15%	35%	57%	26%	16%	42%	23%	35%
11	88%	10%	2%	79%	17%	4%	77%	14%	9%	62%	30%	8%	32%	33%	35%	7%	32%	62%	0%	19%	81%	1%	26%	74%	4%	38%	58%	21%	40%	39%	51%	33%	16%	60%	23%	18%	40%	26%	34%
12	87%	12%	1%	81%	15%	4%	68%	21%	11%	60%	28%	13%	28%	40%	32%	7%	26%	68%	1%	28%	72%	2%	23%	75%	12%	37%	51%	17%	40%	43%	49%	32%	19%	70%	21%	9%	40%	27%	33%
13	79%	18%	4%	88%	10%	2%	77%	17%	6%	57%	35%	9%	27%	43%	29%	6%	32%	62%	3%	32%	65%	2%	24%	74%	13%	40%	48%	24%	36%	40%	43%	31%	26%	70%	24%	7%	41%	28%	31%
14	87%	12%	1%	90%	8%	2%	76%	17%	7%	57%	28%	15%	24%	37%	40%	5%	39%	56%	1%	23%	76%	3%	22%	75%	10%	34%	56%	32%	35%	33%	38%	27%	35%	67%	26%	7%	41%	26%	34%
15	76%	18%	6%	86%	12%	2%	74%	24%	1%	49%	36%	15%	24%	43%	32%	7%	40%	54%	5%	25%	70%	2%	16%	82%	10%	24%	65%	32%	39%	29%	41%	30%	29%	73%	16%	11%	40%	27%	33%
16	64%	34%	2%	76%	20%	4%	85%	11%	4%	56%	29%	15%	24%	42%	34%	8%	38%	54%	6%	26%	68%	4%	27%	68%	8%	39%	53%	35%	36%	29%	51%	24%	24%	69%	18%	13%	41%	29%	31%
17	75%	24%	1%	80%	20%	0%	82%	13%	4%	57%	30%	13%	24%	37%	39%	7%	32%	61%	6%	32%	63%	2%	29%	69%	11%	34%	55%	32%	32%	36%	50%	35%	15%	66%	18%	16%	41%	28%	31%
18	81%	13%	6%	85%	11%	4%	78%	19%	3%	49%	31%	21%	14%	43%	43%	7%	34%	60%	9%	20%	71%	7%	22%	71%	6%	41%	53%	28%	38%	34%	43%	38%	19%	72%	18%	10%	40%	27%	33%
19	81%	14%	5%	76%	23%	1%	75%	21%	4%	46%	29%	24%	21%	39%	40%	7%	43%	49%	8%	27%	65%	5%	25%	70%	8%	38%	54%	27%	35%	38%	37%	37%	26%	63%	26%	12%	38%	30%	32%
20	82%	15%	3%	77%	11%	12%	79%	17%	4%	49%	31%	21%	22%	40%	38%	7%	34%	60%	7%	30%	63%	4%	25%	71%	9%	40%	51%	25%	35%	40%	42%	36%	22%	68%	22%	10%	39%	28%	33%
21	75%	20%	5%	80%	10%	10%	80%	18%	2%	55%	26%	19%	31%	28%	41%	9%	38%	54%	9%	21%	71%	4%	29%	66%	14%	26%	60%	32%	30%	38%	36%	40%	24%	65%	24%	10%	41%	26%	33%
22	84%	14%	2%	76%	13%	10%	70%	25%	5%	51%	33%	16%	22%	40%	38%	6%	38%	57%	10%	14%	76%	7%	36%	57%	16%	37%	47%	43%	32%	25%	42%	38%	20%	62%	32%	6%	41%	29%	30%
23	84%	13%	3%	79%	13%	9%	75%	19%	6%	50%	30%	20%	25%	42%	33%	6%	33%	61%	2%	15%	82%	2%	22%	76%	17%	28%	55%	40%	35%	25%	47%	31%	22%	73%	18%	9%	42%	25%	33%
24	81%	14%	5%	82%	13%	5%	79%	10%	10%	46%	42%	13%	20%	42%	38%	11%	29%	60%	5%	20%	75%	2%	21%	77%	16%	29%	54%	35%	47%	18%	44%	34%	22%	75%	12%	13%	41%	26%	33%
25	74%	19%	7%	77%	12%	11%	82%	12%	7%	40%	41%	18%	17%	34%	49%	8%	25%	67%	4%	18%	78%	0%	9%	91%	21%	35%	44%	42%	39%	19%	56%	27%	17%	75%	18%	7%	41%	24%	35%
26	72%	24%	4%	73%	13%	15%	72%	14%	14%	43%	30%	27%	24%	33%	43%	10%	24%	66%	3%	24%	74%	1%	13%	87%	19%	35%	46%	41%	35%	24%	46%	27%	27%	68%	24%	8%	39%	24%	36%
27	74%	15%	11%	79%	18%	2%	66%	18%	16%	43%	32%	24%	17%	38%	45%	3%	19%	78%	4%	22%	74%	3%	30%	67%	25%	29%	46%	41%	33%	26%	51%	20%	29%	64%	22%	14%	39%	25%	36%
28	74%	18%	9%	76%	22%	2%	60%	23%	17%	34%	38%	29%	13%	33%	54%	1%	22%	76%	4%	17%	79%	4%	27%	69%	22%	42%	36%	39%	40%	21%	47%	29%	24%	68%	21%	11%	37%	28%	36%
29	72%	15%	13%	81%	9%	9%	67%	24%	9%	35%	36%	29%	15%	26%	58%	1%	26%	73%	4%	14%	82%	3%	31%	66%	25%	36%	39%	41%	37%	22%	49%	26%	24%	68%	20%	13%	38%	25%	36%
30	76%	18%	6%				74%	18%	8%	40%	34%	26%	11%	40%	49%	4%	39%	57%	3%	19%	78%	1%	29%	71%	23%	35%	42%	48%	37%	15%	46%	40%	15%	72%	15%	13%	36%	29%	34%
31	88%	12%	1%				73%	24%	4%				13%	40%	48%				2%	18%	79%	6%	18%	76%				49%	30%	21%				79%	12%	10%	44%	22%	34%
AVG %	78%	17%	5%	80%	14%	6%	75%	17%	8%	57%	28%	15%	27%	37%	36%	7%	32%	61%	4%	22%	73%	3%	24%	73%	11%	33%	56%	28%	37%	35%	46%	30%	24%	66%	23%	11%	40%	26%	34%
condition			2.0			1.8			2.1			3.5			5.8			7.6			8.3			8.4			7.2			5.7			4.5			2.9			5.0

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)



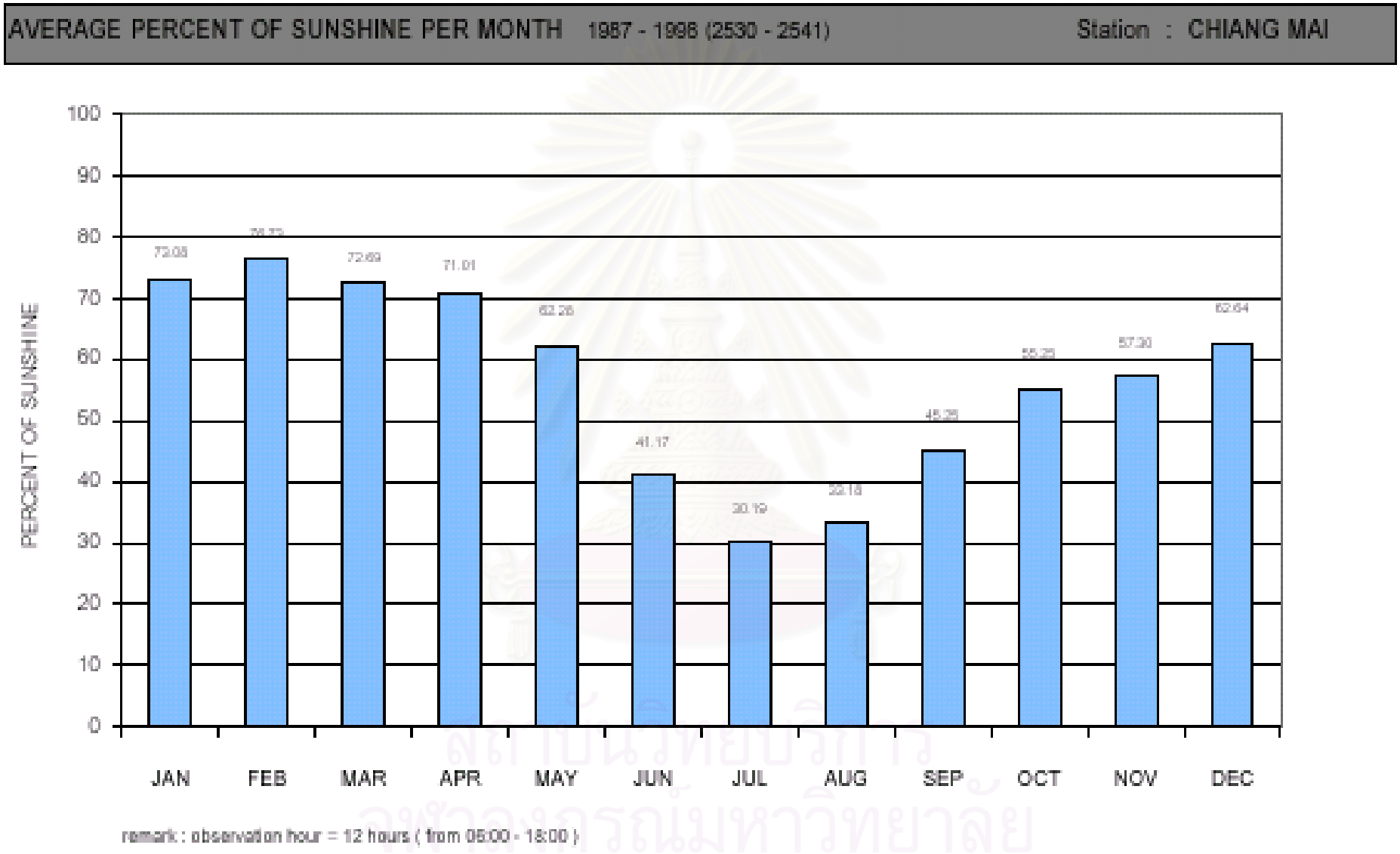
ตารางแสดงผลข้อมูลระยะเวลาของแสงแดด (duration of sunshine)

DURATION OF SUNSHINE (hours) 1981 - 1998 (2524 - 2541) — **Station : CHIANG MAI**

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	8.8	73.3%	8.8	73.0%	9.6	79.7%	9.0	75.3%	9.8	81.9%	7.4	61.5%	4.0	33.0%	1.9	15.6%	3.9	32.6%	7.2	59.9%	7.5	62.8%	6.8	56.8%	7.1	58.8%
2	8.4	69.6%	8.2	68.3%	8.5	70.5%	8.9	73.8%	8.9	74.0%	6.5	53.9%	3.1	26.2%	3.8	31.7%	4.1	33.8%	7.1	59.3%	8.1	67.4%	5.9	49.0%	6.8	56.4%
3	8.8	73.0%	8.6	71.5%	9.4	78.5%	7.7	64.5%	7.8	65.3%	6.5	54.2%	3.2	26.7%	4.0	33.2%	5.0	41.8%	6.4	53.1%	6.8	56.5%	7.7	63.9%	6.8	56.8%
4	8.8	72.9%	8.8	73.1%	8.6	71.7%	8.1	67.6%	8.8	73.5%	6.0	49.9%	2.8	23.1%	3.1	25.7%	5.4	45.1%	5.1	42.5%	5.1	42.6%	7.9	65.5%	6.5	54.4%
5	8.7	72.3%	8.5	70.6%	9.3	77.4%	8.5	71.0%	8.1	67.1%	5.8	48.0%	1.8	14.7%	4.1	33.9%	5.1	42.1%	5.1	42.4%	6.2	51.7%	7.9	66.0%	6.6	54.8%
6	8.7	72.8%	8.9	73.9%	9.0	74.7%	8.1	67.4%	7.2	60.1%	4.5	37.8%	3.0	25.0%	3.9	32.2%	4.2	34.8%	4.2	35.3%	7.3	61.1%	7.5	62.5%	6.4	53.1%
7	8.9	73.9%	9.1	75.8%	9.6	80.0%	8.1	67.8%	8.3	68.9%	5.3	44.2%	3.0	24.9%	5.1	42.6%	6.0	49.9%	5.4	45.3%	7.8	65.1%	6.9	57.3%	7.0	58.0%
8	8.2	68.0%	9.5	79.4%	8.0	66.4%	8.8	73.3%	8.2	68.1%	5.7	47.8%	4.5	37.2%	4.8	40.2%	5.5	45.6%	5.7	47.3%	6.2	51.8%	7.6	62.9%	6.9	57.3%
9	9.1	75.4%	9.2	76.5%	8.0	66.9%	8.9	73.9%	8.1	67.2%	4.3	35.9%	5.6	46.5%	5.0	41.5%	5.6	46.9%	5.0	41.4%	6.1	50.8%	7.7	64.3%	6.9	57.3%
10	8.7	72.1%	9.7	80.8%	8.9	74.0%	8.5	70.4%	7.7	64.5%	4.5	37.5%	4.0	32.9%	4.4	36.4%	4.5	37.1%	5.4	44.9%	6.4	53.5%	7.3	60.5%	6.6	55.4%
11	9.0	74.9%	9.6	80.1%	8.9	74.0%	8.0	66.7%	7.5	62.5%	4.8	40.3%	3.7	31.2%	3.7	30.6%	5.9	49.0%	6.4	53.5%	8.2	68.1%	7.0	58.1%	6.9	57.4%
12	9.1	75.7%	9.6	79.9%	8.0	66.5%	8.5	71.0%	7.3	60.6%	5.0	41.3%	4.4	36.7%	3.9	32.6%	5.6	47.0%	6.0	49.7%	8.2	68.1%	7.5	62.3%	6.9	57.6%
13	8.8	73.3%	10.0	83.5%	9.0	74.8%	8.6	71.4%	8.1	67.5%	5.0	41.3%	3.4	28.0%	4.4	36.5%	6.4	53.2%	7.2	60.2%	6.5	54.2%	7.8	65.1%	7.1	59.1%
14	8.4	70.0%	10.1	84.4%	8.1	67.4%	8.7	72.6%	6.8	56.4%	5.0	41.9%	4.0	33.2%	3.4	28.7%	5.9	49.0%	7.0	58.3%	7.0	58.2%	7.4	61.9%	6.8	56.8%
15	8.5	70.9%	10.2	84.7%	9.0	75.2%	8.6	71.3%	7.9	65.4%	6.4	53.3%	3.8	31.7%	3.4	28.4%	4.6	38.2%	6.6	55.3%	7.1	59.5%	6.3	52.1%	6.9	57.2%
16	8.9	74.4%	9.9	82.6%	9.3	77.4%	9.8	81.7%	6.3	52.2%	5.1	42.8%	4.3	35.4%	4.3	36.0%	5.4	44.7%	6.7	56.1%	7.0	58.5%	6.2	51.3%	6.9	57.8%
17	9.1	76.1%	10.2	85.1%	9.4	78.2%	9.2	76.8%	7.2	59.9%	4.4	37.0%	4.3	36.0%	4.4	36.7%	4.3	35.5%	6.9	57.6%	8.2	68.1%	5.9	48.8%	7.0	58.0%
18	9.1	75.9%	9.8	82.0%	8.6	72.0%	8.2	68.3%	5.7	47.6%	4.8	39.9%	4.3	35.5%	3.8	31.5%	6.2	51.8%	6.7	55.7%	6.7	55.8%	6.8	56.6%	6.7	56.1%
19	9.1	75.4%	9.2	76.3%	8.9	74.5%	7.7	64.4%	6.2	51.4%	4.5	37.6%	5.1	42.1%	3.9	32.6%	5.6	46.8%	6.3	52.1%	6.4	53.6%	7.1	59.3%	6.7	55.5%
20	8.9	74.5%	8.9	74.3%	9.3	77.2%	8.1	67.4%	6.9	57.8%	4.1	34.5%	5.1	42.4%	3.9	32.2%	5.6	46.8%	6.1	51.1%	7.0	58.5%	7.7	64.4%	6.8	56.8%
21	8.9	74.2%	8.2	68.3%	9.3	77.4%	9.0	74.7%	7.0	58.6%	5.2	43.3%	3.8	31.9%	4.8	40.2%	4.8	40.1%	5.8	48.1%	6.9	57.8%	7.8	64.9%	6.8	56.6%
22	9.2	76.5%	8.5	70.4%	8.7	72.4%	8.3	69.5%	8.1	67.4%	5.6	47.0%	3.3	27.4%	4.8	39.6%	7.0	58.1%	7.7	64.4%	6.7	55.6%	8.3	69.4%	7.2	59.8%
23	9.3	77.2%	8.9	74.4%	8.9	74.4%	8.4	70.3%	8.2	68.5%	4.7	39.5%	2.4	20.1%	3.1	26.0%	5.1	42.6%	7.6	63.0%	6.9	57.2%	8.2	67.9%	6.8	56.8%
24	8.8	73.0%	9.3	77.4%	8.7	72.2%	9.0	74.8%	8.0	66.9%	5.0	41.7%	3.1	25.9%	3.8	31.8%	5.5	45.6%	8.5	70.6%	6.1	50.6%	7.8	65.2%	7.0	58.0%
25	8.7	72.1%	8.1	67.4%	8.1	67.8%	8.4	70.2%	7.3	60.6%	4.3	35.8%	3.5	29.3%	2.7	22.8%	6.0	50.1%	8.0	66.5%	6.9	57.4%	8.7	72.4%	6.7	56.0%
26	8.6	71.8%	7.9	65.6%	8.0	66.5%	8.8	73.3%	7.8	65.0%	4.0	33.1%	3.7	31.2%	3.5	28.9%	6.1	51.2%	7.7	64.4%	5.8	48.7%	7.9	65.9%	6.7	55.5%
27	7.9	65.8%	9.7	80.6%	7.9	65.8%	8.4	70.1%	7.5	62.7%	3.1	25.5%	4.1	33.9%	5.0	41.3%	4.9	40.8%	7.6	63.1%	6.3	52.2%	7.8	64.9%	6.7	55.5%
28	8.7	72.6%	9.8	81.3%	7.0	58.3%	8.4	70.2%	6.7	55.8%	2.7	22.1%	3.3	27.3%	6.1	50.7%	6.4	53.5%	7.4	61.3%	6.6	54.9%	8.0	66.9%	6.7	56.2%
29	8.1	67.6%	10.1	84.2%	8.9	73.9%	8.3	68.8%	5.1	42.4%	3.2	26.3%	3.6	29.6%	4.5	37.2%	5.9	48.8%	8.4	70.1%	7.1	59.5%	8.6	71.5%	6.8	56.6%
30	8.9	73.9%			8.7	72.6%	8.6	71.6%	6.2	51.4%	4.8	39.9%	2.9	23.9%	2.9	24.5%	6.6	55.3%	7.7	64.4%	7.1	59.2%	8.5	70.8%	6.6	55.2%
31	9.2	76.5%			9.0	75.1%			7.2	59.8%			1.6	13.1%	3.2	26.8%			6.7	55.8%			8.8	73.5%	6.5	54.4%
Average	8.8	73.1%	9.2	76.7%	8.7	72.7%	8.5	71.0%	7.5	62.3%	4.9	41.2%	3.6	30.2%	4.0	33.2%	5.4	45.2%	6.6	55.2%	6.9	57.3%	7.5	62.6%	6.8	56.6%
Total	271.9		267.0		270.4		255.6		231.7		148.2		112.3		123.4		162.9		205.5		206.3		233.0		2,488.3	

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

แผนภูมิระยะเวลาของแสงแดด (average percent of sunshine per month)



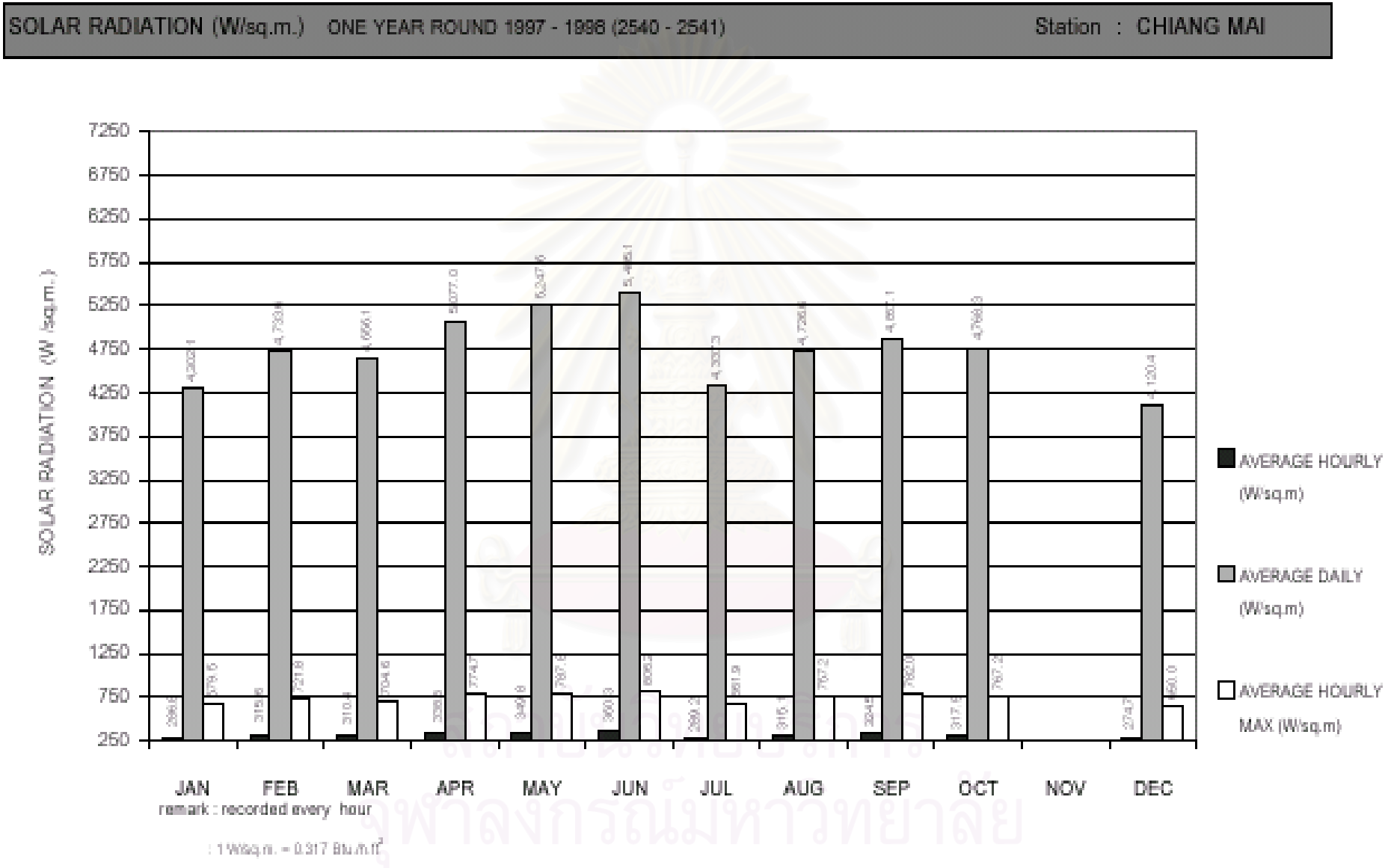
ตารางแสดงผลข้อมูลปริมาณรังสีรวมดวงอาทิตย์ (solar radiation)

SOLAR RADIATION (W / m²) 1998 (2541) **Station : CHIANGMAI**

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	282.0	4,229.7	287.8	4,317.0	338.6	5,078.9	340.6	5,109.2	362.8	5,441.4	384.0	5,760.3	341.2	5,118.2	346.8	5,202.7	233.8	3,506.9	400.8	6,012.0	-	-	290.3	4,354.3	328.1	4,510.9
2	277.6	4,164.4	293.2	4,397.3	346.6	5,199.7	332.5	4,987.8	355.5	5,331.8	407.2	6,107.6	321.2	4,818.2	185.5	2,783.0	348.9	5,234.1	398.4	5,975.4	-	-	274.4	4,116.5	321.9	4,426.3
3	288.8	4,332.4	318.1	4,772.1	356.2	5,342.5	266.2	3,992.3	406.2	6,093.6	348.9	5,233.3	120.1	1,801.1	198.2	2,973.3	316.5	4,747.8	378.9	5,683.5	-	-	283.1	4,246.6	298.3	4,101.5
4	277.8	4,166.8	333.2	4,997.8	289.2	4,338.5	337.2	5,058.0	418.8	6,281.5	360.5	5,408.2	104.0	1,559.8	123.0	1,844.3	398.0	5,970.3	372.6	5,589.3	-	-	236.6	3,549.1	295.5	4,063.6
5	234.1	3,511.6	329.0	4,934.3	299.6	4,494.1	290.1	4,352.1	418.2	6,272.7	433.5	6,502.7	165.2	2,477.5	372.7	5,590.5	313.8	4,707.3	379.8	5,697.6	-	-	257.6	3,863.4	317.6	4,367.0
6	221.3	3,318.8	321.0	4,814.9	336.8	5,051.3	311.0	4,665.4	414.3	6,214.5	349.5	5,242.9	224.2	3,363.7	347.6	5,213.9	295.5	4,432.6	109.5	1,641.9	-	-	276.5	4,147.5	291.6	4,009.0
7	251.8	3,777.4	314.1	4,711.0	352.2	5,283.7	339.0	5,085.4	363.4	5,450.3	353.1	5,296.3	284.0	4,260.7	339.1	5,086.9	197.3	2,959.4	241.3	3,619.0	-	-	296.0	4,440.7	302.9	4,164.2
8	269.6	4,044.6	294.6	4,419.2	350.0	5,250.6	360.6	5,409.5	358.9	5,382.9	446.2	6,692.3	300.9	4,513.9	233.7	3,505.6	259.1	3,886.2	288.8	4,332.2	-	-	280.2	4,203.1	313.0	4,303.4
9	297.3	4,459.6	284.3	4,264.2	346.8	5,202.1	325.3	4,879.3	338.7	5,080.0	409.3	6,138.8	229.0	3,435.4	332.9	4,993.5	315.5	4,732.0	251.4	3,771.4	-	-	266.4	3,995.7	308.8	4,246.0
10	305.4	4,581.6	343.9	5,158.9	347.2	5,208.6	330.5	4,957.6	404.7	6,069.8	349.7	5,245.9	155.4	2,331.3	334.4	5,016.1	312.8	4,691.4	312.2	4,682.6	-	-	230.8	3,461.9	311.5	4,283.8
11	320.5	4,806.8	329.5	4,942.0	302.4	4,536.3	352.5	5,287.9	251.8	3,776.8	343.4	5,151.0	170.3	2,554.5	254.8	3,822.0	322.1	4,831.4	380.3	5,704.6	-	-	246.2	3,693.0	297.6	4,092.2
12	314.3	4,714.3	329.2	4,938.5	277.7	4,165.8	347.7	5,215.7	358.2	5,373.6	344.0	5,159.7	277.9	4,168.0	318.6	4,778.4	405.0	6,074.6	304.7	4,570.3	-	-	213.4	3,201.5	317.3	4,363.4
13	311.2	4,667.6	338.1	5,070.8	258.5	3,877.2	345.3	5,179.6	372.9	5,593.3	405.2	6,078.2	250.8	3,761.4	315.2	4,728.6	414.2	6,213.5	303.8	4,557.3	-	-	264.1	3,961.2	325.4	4,474.1
14	301.6	4,523.7	337.0	5,054.6	241.8	3,627.2	345.1	5,177.0	384.8	5,771.7	470.9	7,064.0	271.3	4,068.8	384.0	5,759.3	355.1	5,325.9	340.2	5,103.1	-	-	270.5	4,057.4	336.6	4,627.7
15	312.8	4,691.8	330.8	4,962.5	308.9	4,633.3	290.1	4,351.9	336.3	5,044.0	436.8	6,551.4	242.0	3,630.1	311.8	4,677.1	177.2	2,657.3	361.3	5,419.9	-	-	278.3	4,174.1	307.8	4,232.8
16	296.2	4,442.4	349.8	5,247.6	338.9	5,083.8	292.3	4,384.3	396.6	5,948.9	438.0	6,569.3	219.7	3,295.4	358.9	5,382.9	266.9	4,002.8	367.2	5,508.6	-	-	284.8	4,271.7	328.1	4,511.5
17	321.5	4,822.0	332.6	4,988.4	282.4	4,236.0	296.1	4,441.4	294.9	4,424.1	423.0	6,345.2	315.5	4,732.6	340.8	5,112.4	208.5	3,128.1	346.1	5,192.0	-	-	283.8	4,257.3	313.2	4,306.6
18	320.7	4,810.9	330.5	4,956.8	233.9	3,508.7	349.3	5,239.2	260.0	3,900.7	340.9	5,113.1	417.9	6,268.9	394.8	5,922.2	291.0	4,365.2	219.2	3,287.5	-	-	278.3	4,174.9	312.4	4,295.7
19	298.2	4,472.6	327.5	4,912.3	291.8	4,376.6	306.6	4,598.8	127.4	1,911.5	289.4	4,341.4	452.9	6,794.0	403.8	6,056.5	388.1	5,820.8	262.5	3,937.7	-	-	288.1	4,322.0	312.4	4,295.4
20	307.9	4,618.9	338.2	5,073.5	325.1	4,876.8	327.3	4,909.3	288.3	4,325.2	288.3	4,323.9	344.9	5,173.9	297.1	4,456.7	314.9	4,724.1	266.9	4,003.7	-	-	281.4	4,221.2	307.3	4,225.6
21	308.8	4,632.5	331.3	4,970.2	329.9	4,948.5	407.9	6,118.9	206.0	3,089.4	388.8	5,832.7	404.4	6,065.9	275.5	4,131.8	303.8	4,557.1	278.4	4,176.7	-	-	293.1	4,396.9	320.7	4,410.0
22	263.7	3,954.8	369.5	5,542.8	341.3	5,119.9	364.9	5,473.2	338.5	5,077.8	341.7	5,125.4	336.6	5,049.0	400.6	6,008.8	343.7	5,155.8	370.6	5,559.0	-	-	301.9	4,529.2	343.0	4,716.3
23	297.9	4,468.8	344.5	5,168.0	359.1	5,387.2	360.1	5,401.6	411.7	6,175.7	291.2	4,368.2	230.1	3,451.3	351.6	5,273.9	383.5	5,752.2	357.7	5,365.2	-	-	302.7	4,540.8	335.5	4,612.7
24	321.3	4,819.8	327.2	4,907.9	236.1	3,542.2	365.9	5,488.8	444.1	6,660.8	296.1	4,442.2	285.6	4,284.6	170.9	2,562.8	378.5	5,677.1	359.3	5,388.8	-	-	308.0	4,620.7	317.6	4,366.3
25	276.9	4,152.8	333.5	5,002.0	242.7	3,641.0	358.8	5,381.5	344.9	5,173.5	273.9	4,108.0	216.5	3,247.9	296.1	4,442.2	316.8	4,752.4	355.1	5,327.1	-	-	305.3	4,579.8	301.9	4,150.7
26	274.2	4,112.6	317.9	4,769.1	308.2	4,622.6	364.8	5,472.0	322.5	4,838.0	320.6	4,808.4	219.7	3,295.0	308.2	4,622.6	380.5	5,708.2	349.0	5,234.4	-	-	276.7	4,150.2	312.9	4,302.7
27	310.3	4,654.0	333.7	5,005.7	310.3	4,655.2	322.9	4,843.6	347.0	5,204.6	322.4	4,835.6	441.9	6,628.6	353.8	5,306.5	295.7	4,435.0	333.0	4,995.6	-	-	253.2	3,797.5	329.5	4,530.2
28	216.4	3,245.9	331.7	4,976.1	315.9	4,738.8	337.9	5,068.4	365.6	5,484.4	290.8	4,361.8	433.6	6,504.6	364.7	5,470.3	394.8	5,922.0	207.9	3,117.9	-	-	235.7	3,535.3	317.7	4,368.8
29	230.4	3,456.6			315.7	4,735.6	399.3	5,990.1	396.0	5,939.5	314.5	4,718.2	420.9	6,312.9	337.8	5,066.7	400.0	5,999.3	323.4	4,851.2	-	-	281.4	4,221.0	310.9	4,274.2
30	264.0	3,959.4			342.8	5,142.3	386.1	5,791.2	334.8	5,022.7	348.4	5,225.9	378.1	5,671.0	348.0	5,220.5	402.8	6,042.3	296.4	4,446.7	-	-	294.8	4,421.7	339.6	4,631.2
31	316.6	4,749.6			295.5	4,432.4			421.5	6,322.7			387.8	5,816.9	367.5	5,512.0			337.7	5,065.4			281.7	4,225.4	344.0	5,160.6
Average	286.8	4,302.1	315.6	4,733.6	310.4	4,656.1	338.5	5,077.0	349.8	5,247.6	360.3	5,405.1	289.2	4,337.3	315.1	4,726.6	324.5	4,867.1	317.9	4,768.3	-	-	274.7	4,120.4	316.8	4,749.2
Avg. max	679.5		721.8		704.6		774.7		787.8		806.2		661.9		757.2		782.0		767.2		-		650.0		735.7	

remark : 1 W / m² = 0.317 Btu / hr ft² = 3.6 kJ / m²

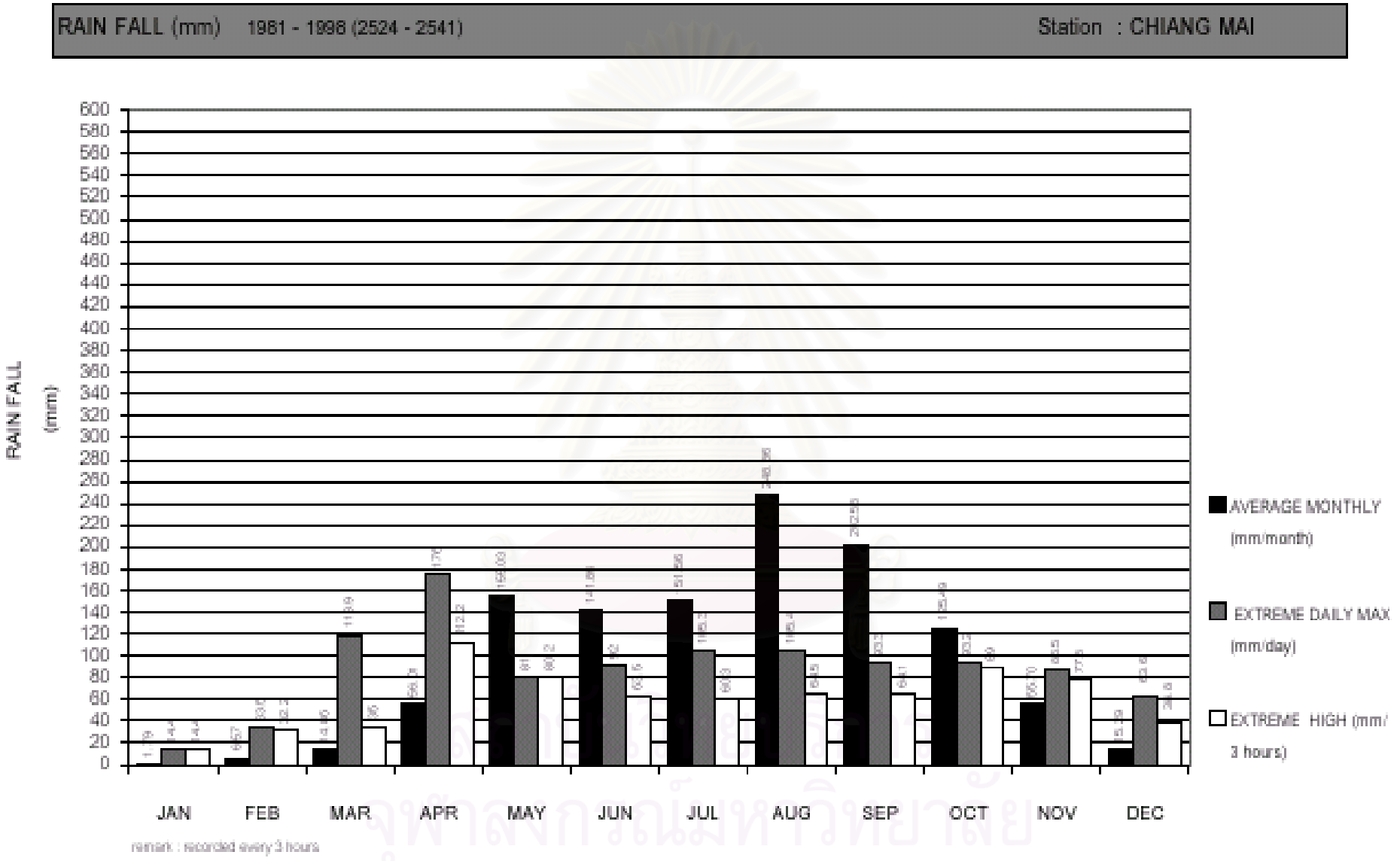
แผนภูมิปริมาณรังสีรวมดวงอาทิตย์ (solar radiation)



ตารางแสดงผลข้อมูลประมาณน้ำฝน (rain fall)

RAIN FALL (mm) 1981 - 1998 (2524 - 2541)													Station : CHIANG MAI
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	0.2	0.0	0.0	0.1	0.5	3.9	4.0	15.3	12.0	3.0	1.0	1.9	42.0
2	0.0	0.0	0.4	0.0	0.5	6.5	2.7	5.3	8.7	11.5	0.4	0.0	36.1
3	0.2	0.0	0.0	0.4	1.3	3.4	2.7	5.1	7.9	0.9	2.2	0.0	24.0
4	0.0	0.0	0.0	0.0	2.7	7.3	1.8	8.6	9.9	5.5	0.2	0.4	36.5
5	0.0	0.0	0.0	0.0	10.2	6.6	4.9	7.2	7.3	3.0	9.4	0.2	48.8
6	0.0	0.0	0.4	2.8	6.0	8.9	6.8	2.4	4.2	13.6	1.1	1.1	47.5
7	0.0	0.0	0.0	0.8	3.0	4.1	3.2	12.7	9.5	6.1	3.0	0.0	42.3
8	0.0	0.5	0.0	0.0	4.0	5.9	6.2	9.2	5.6	5.3	1.4	0.0	38.1
9	0.0	0.3	0.0	0.0	3.5	6.4	5.3	3.3	6.2	3.2	1.9	3.3	33.3
10	0.0	0.0	0.0	0.0	3.8	8.5	3.8	2.6	5.5	8.0	3.8	0.0	36.1
11	0.0	0.0	0.0	0.9	4.0	6.3	7.5	10.0	11.7	2.5	1.0	0.2	44.1
12	0.0	1.9	0.0	0.3	2.4	6.8	5.6	3.9	10.4	7.9	2.9	0.2	42.3
13	0.0	0.3	0.0	2.3	2.2	3.4	5.1	3.2	2.7	3.2	4.3	0.0	26.6
14	0.0	0.0	0.0	1.1	11.6	3.3	2.5	5.7	9.1	4.1	2.7	0.0	40.0
15	0.0	0.0	0.0	1.0	3.7	6.4	12.2	16.9	7.7	1.8	4.4	0.1	54.3
16	0.0	0.0	0.0	0.5	2.9	2.8	4.5	8.2	4.6	5.2	0.9	0.3	29.9
17	0.0	0.0	0.0	3.5	5.8	3.5	2.4	6.5	6.3	10.0	3.5	0.9	42.4
18	0.0	0.0	0.2	2.4	6.3	3.9	4.9	12.7	5.9	2.2	2.6	0.0	41.1
19	0.0	0.0	2.0	2.9	5.6	3.5	2.0	8.7	7.6	7.7	3.0	0.0	43.0
20	0.1	0.7	0.0	1.3	6.2	5.8	3.9	7.5	9.1	3.6	0.3	0.0	38.6
21	0.1	1.0	0.0	11.0	5.4	2.2	4.2	11.4	3.3	3.8	1.0	0.0	43.4
22	0.0	0.2	0.0	2.1	6.6	3.3	2.9	2.2	1.9	2.2	0.7	0.0	22.2
23	0.0	0.5	0.0	2.8	5.6	1.9	4.2	11.1	3.0	0.9	0.1	1.6	31.8
24	0.0	0.0	0.2	0.8	3.6	3.9	6.3	8.4	6.4	1.3	0.5	3.5	35.0
25	0.0	0.3	0.0	1.8	5.3	2.1	5.1	13.7	8.4	0.9	0.0	0.0	37.5
26	0.0	0.7	1.5	1.0	4.2	6.7	4.8	9.6	7.0	1.0	0.5	0.0	36.9
27	0.0	0.0	7.0	3.6	9.0	2.5	6.4	10.9	6.2	2.5	2.5	0.1	50.7
28	0.9	0.1	2.4	6.9	9.4	3.6	6.2	2.5	2.8	2.0	0.2	0.7	37.7
29	0.3	0.0	0.3	4.0	10.6	4.7	5.1	4.1	2.5	1.4	0.3	0.0	33.3
30	0.0		0.0	1.6	5.2	3.5	6.9	6.6	9.3	1.3	0.0	0.0	34.5
31	0.0		0.2		3.9		7.4	13.1		0.0		0.8	25.4
Monthly	1.8	6.6	14.9	56.0	155.0	141.9	151.6	248.9	202.5	125.5	55.7	15.3	1,175.6
Daily record high	14.4	33.5	118.9	176.0	81.0	92.0	105.3	105.4	93.3	93.2	86.5	63.6	176.0
3 hr. Extremes	14.4	32.2	35.0	112.2	80.2	63.5	60.3	64.5	64.1	89.0	77.5	38.8	112.2
No. of rainy days	1	2	2	5	15	16	17	20	22	17	6	1	125

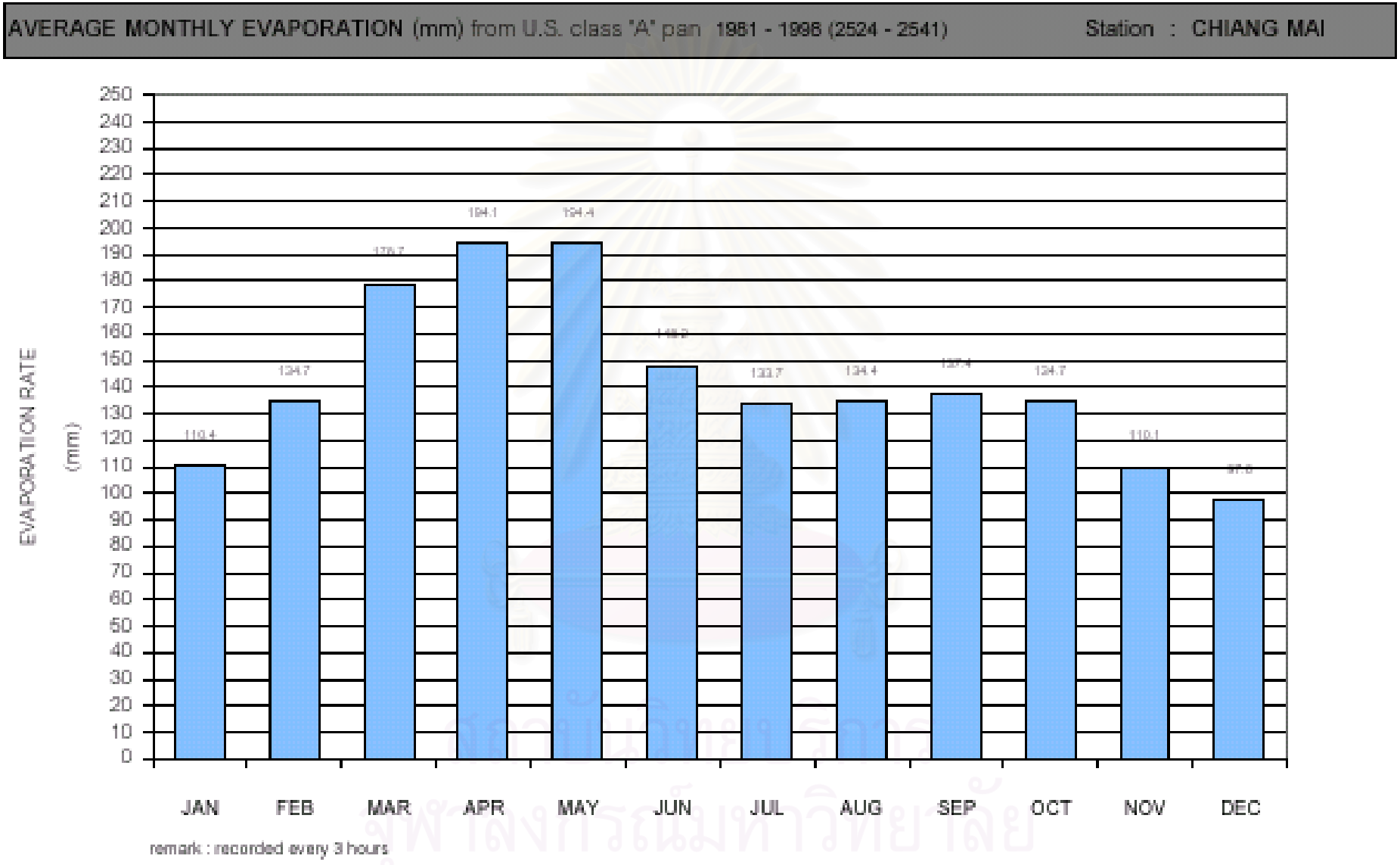
แผนภูมิปริมาณน้ำฝน (rain fall)



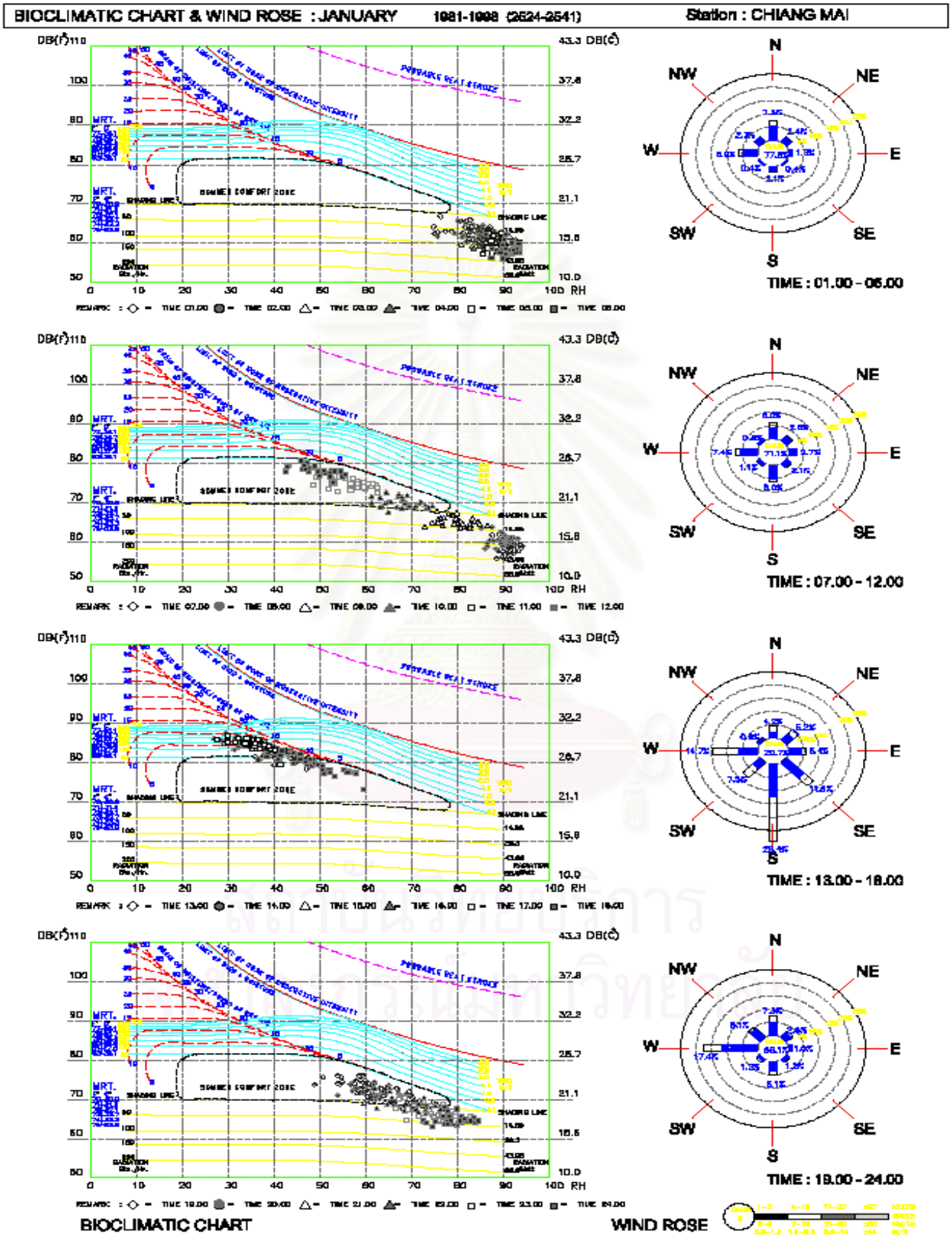
ตารางแสดงผลข้อมูลค่าเฉลี่ยอัตราการระเหยของน้ำรายวัน (evaporation)

EVAPORATION (mm) 1981 - 1998 (2524 - 2541)													Station : CHIANG MAI
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	3.2	4.2	5.7	7.2	6.2	5.2	4.5	3.7	4.1	5.1	3.8	3.7	56.6
2	3.4	4.0	5.4	5.9	7.0	5.9	4.9	4.2	4.5	4.9	3.8	3.0	56.9
3	3.6	4.1	5.3	5.6	6.4	5.7	4.3	4.7	5.0	3.8	4.0	3.4	55.7
4	3.4	4.1	5.2	6.0	6.9	5.9	4.0	4.6	4.6	4.0	4.1	3.2	56.1
5	3.1	4.4	5.5	6.0	6.6	5.1	3.3	5.1	4.7	4.1	4.2	3.0	55.1
6	3.7	4.2	5.8	6.4	5.1	4.9	4.1	4.5	4.9	3.7	4.3	3.7	55.4
7	3.6	4.1	5.8	5.7	7.0	4.9	3.8	5.2	4.1	4.3	3.8	3.4	55.8
8	3.3	4.2	5.5	5.7	6.8	4.8	4.6	4.9	4.3	4.2	3.6	3.3	55.1
9	3.3	4.3	5.1	6.2	5.9	4.6	5.5	4.8	5.0	4.3	3.4	3.3	55.7
10	3.4	4.4	5.6	6.5	6.1	4.9	4.3	4.8	4.0	4.3	4.0	3.1	55.5
11	3.5	4.9	5.5	6.4	6.2	4.9	4.9	4.2	4.6	4.9	3.7	2.8	56.5
12	3.1	4.4	5.8	6.7	6.4	4.9	4.6	4.2	4.4	4.9	4.0	3.1	56.4
13	3.5	4.7	6.0	6.6	6.2	5.0	4.3	4.4	5.1	4.7	3.7	3.3	57.4
14	3.6	4.8	6.2	6.1	6.5	4.7	4.3	3.7	4.8	4.8	3.7	3.4	56.7
15	3.4	5.0	5.6	6.5	6.6	5.7	4.4	4.2	4.9	3.9	3.5	3.1	56.5
16	3.5	4.9	6.2	6.8	5.9	4.9	4.6	4.4	4.5	4.4	3.6	3.1	57.0
17	3.4	5.0	6.3	7.1	6.3	4.6	4.9	4.7	4.2	4.8	3.7	2.9	57.9
18	3.6	5.0	5.5	6.4	6.2	4.6	5.0	4.0	4.8	4.0	3.8	3.2	56.1
19	3.5	4.9	6.4	6.7	6.4	5.0	4.5	3.8	5.6	4.0	3.4	3.0	57.2
20	3.4	4.7	6.4	6.5	5.4	4.9	4.9	3.6	4.9	4.4	3.3	3.0	55.5
21	3.6	4.2	6.1	7.0	6.4	5.4	3.7	4.6	4.1	3.9	3.8	3.3	56.1
22	3.9	4.8	6.2	6.9	6.8	5.5	3.7	4.4	4.9	4.2	3.5	2.9	57.6
23	4.1	5.2	6.3	6.8	6.9	4.8	3.3	3.9	4.3	4.0	3.2	3.0	55.9
24	3.3	5.1	5.4	6.6	6.3	4.9	4.2	4.0	4.6	4.3	3.6	3.1	55.3
25	3.7	4.4	5.7	6.8	5.9	4.4	4.3	4.2	4.8	4.6	3.4	3.1	55.2
26	3.9	5.0	5.5	6.4	6.2	4.7	4.4	4.5	4.5	3.9	3.6	3.0	55.5
27	3.8	5.1	5.3	7.0	5.9	4.0	4.1	4.1	4.3	4.7	3.2	3.0	54.5
28	3.8	5.1	6.0	7.1	6.6	4.0	4.2	4.0	4.7	3.9	3.4	3.1	56.0
29	3.8	5.6	6.1	6.4	5.3	4.7	4.8	4.6	3.9	5.1	3.3	3.3	56.8
30	3.9		5.8	6.3	5.8	4.8	4.0	3.7	4.2	4.3	3.8	3.0	49.6
31	4.0		5.6		6.2		3.3	4.6		4.2		2.9	30.8
AVG.Monthly	110.4	134.7	178.7	194.1	194.4	148.2	133.7	134.4	137.4	134.7	110.1	97.6	1,708.4
Daily Mean	3.6	4.6	5.8	6.5	6.3	4.9	4.3	4.3	4.6	4.3	3.7	3.1	4.7
Extremes	6.7	12.5	9.9	15.9	16.8	12.4	11.3	12.4	12.2	11.2	16.0	7.4	16.8

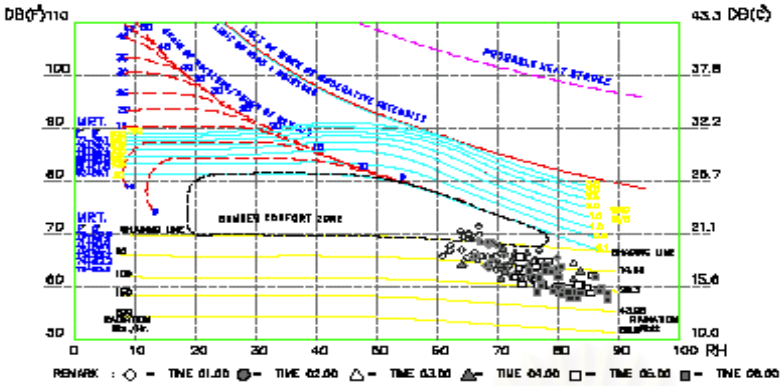
แผนภูมิค่าเฉลี่ยอัตราการระเหยของน้ำรายเดือน (average monthly evaporation from U.S. class “A” pan)

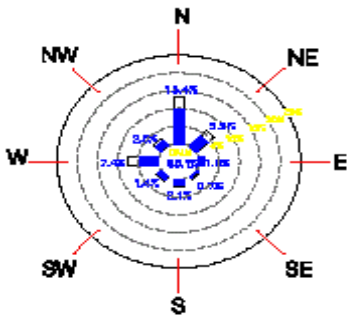


แผนภูมิระหว่างความสัมพันธ์ระหว่างข้อมูลสภาวะอากาศในแผนภูมิไบโอไคลเมตริก (bioclimatic chart) กับแผนภูมิแสดงความถี่ของลมในแต่ละความเร็วและทิศทางที่เกิดลมรายเดือน (wind rose) แยกตามช่วงเวลา



BIOCLIMATIC CHART & WIND ROSE : FEBRUARY 1981-1998 (2524-2541) Station : CHIANG MAI





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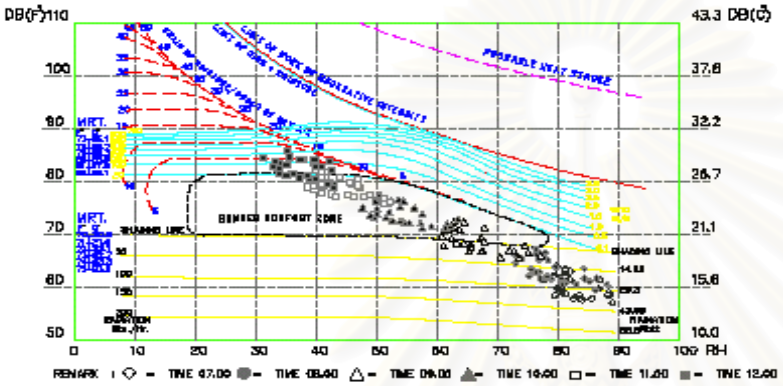
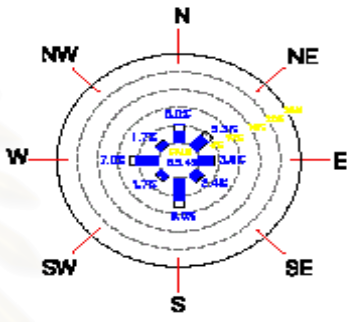
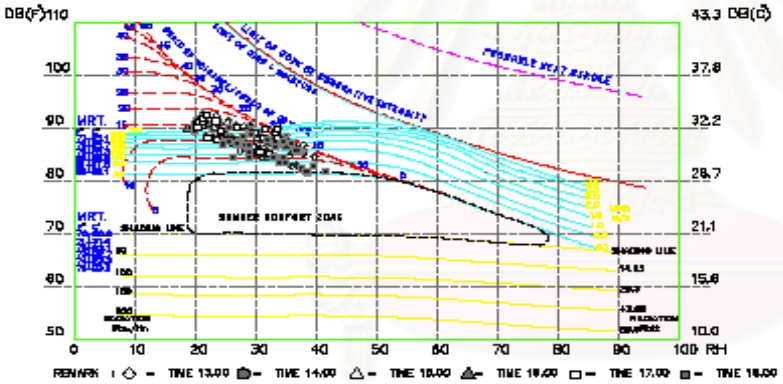
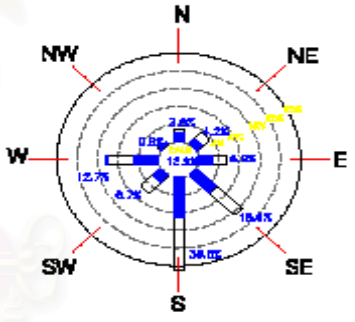


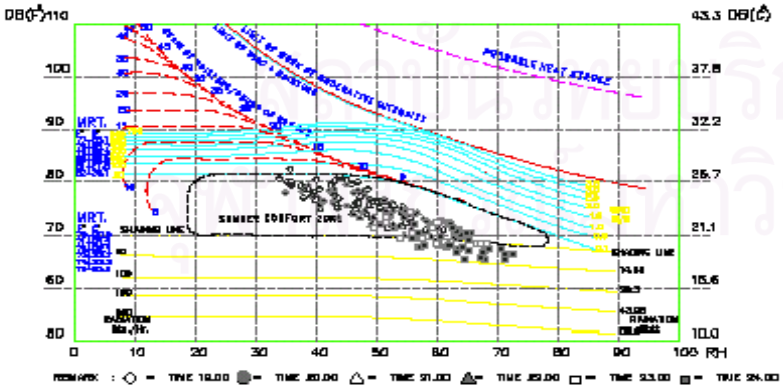


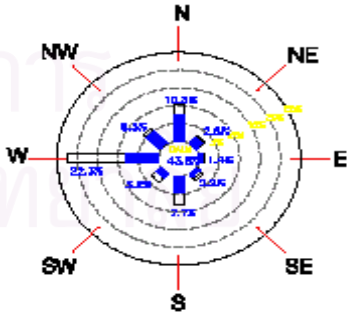
TIME : 07.00 - 12.00





TIME : 13.00 - 18.00



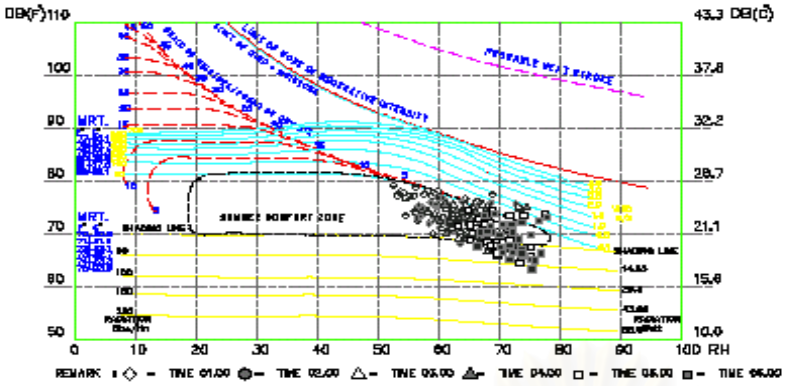


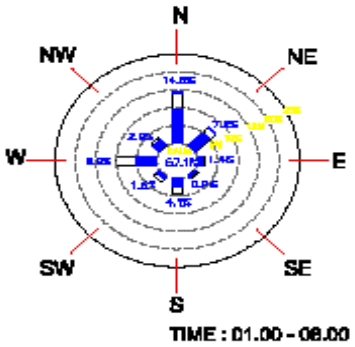
TIME : 19.00 - 24.00

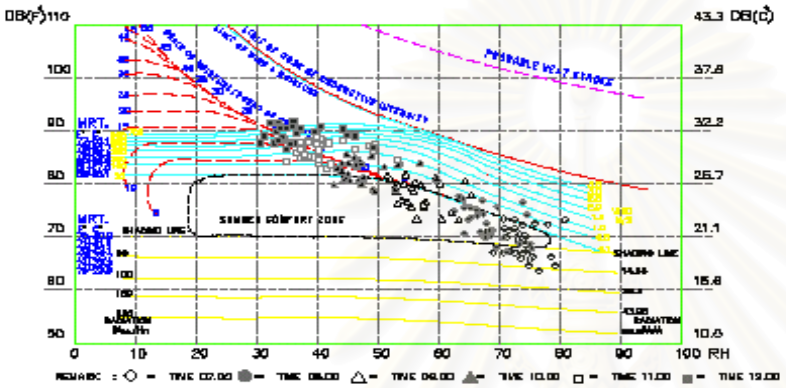
BIOCLIMATIC CHART

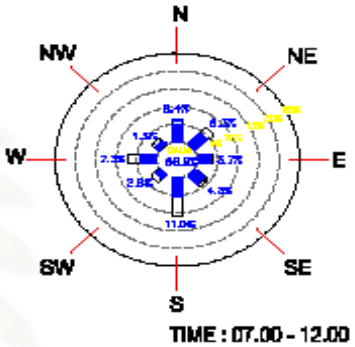
WIND ROSE

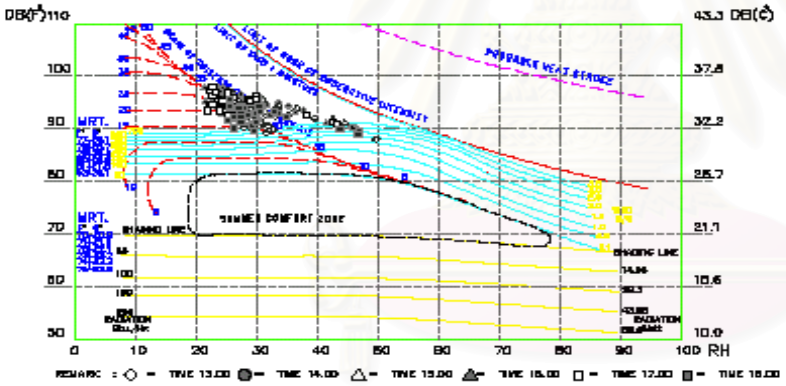
BIOCLIMATIC CHART & WIND ROSE : MARCH 1981-1998 (2524-2541) **Station : CHIANG MAI**

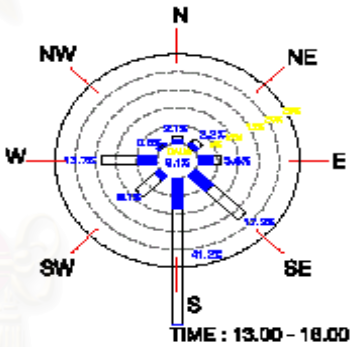


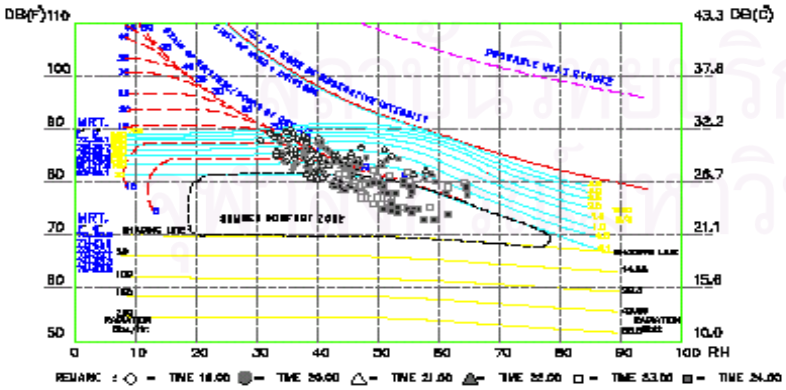


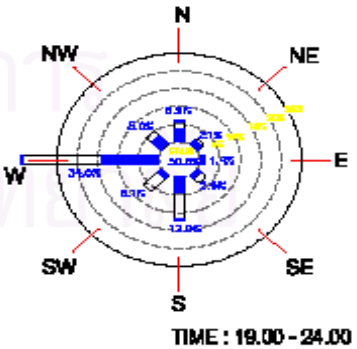








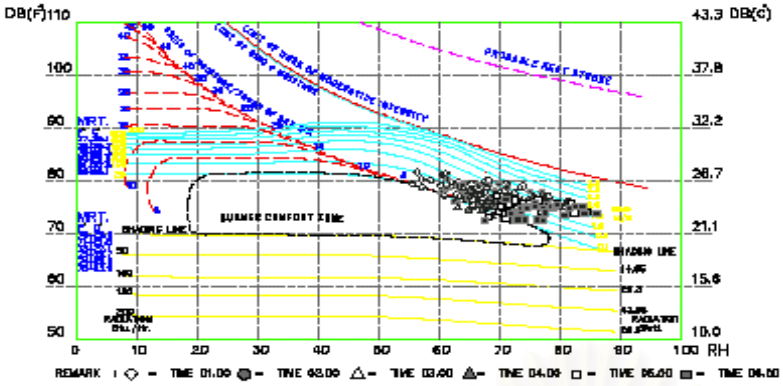


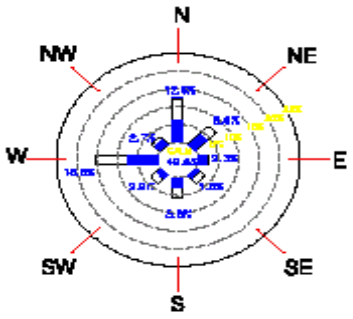


BIOCLIMATIC CHART

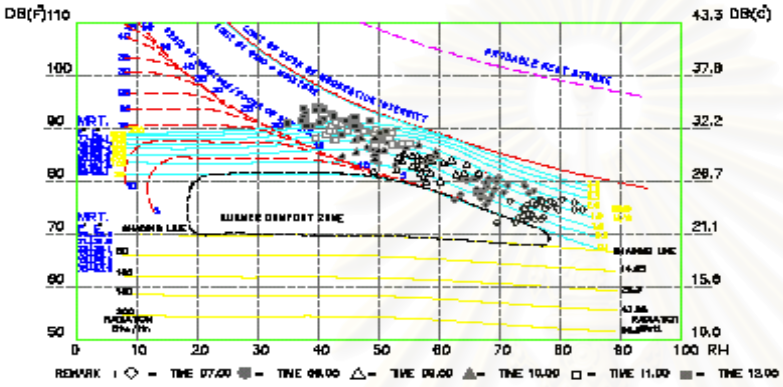
WIND ROSE

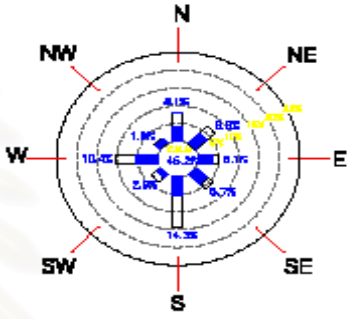
BIOCLIMATIC CHART & WIND ROSE : APRIL 1961-1990 (2524-2541) **Station : CHIANG MAI**



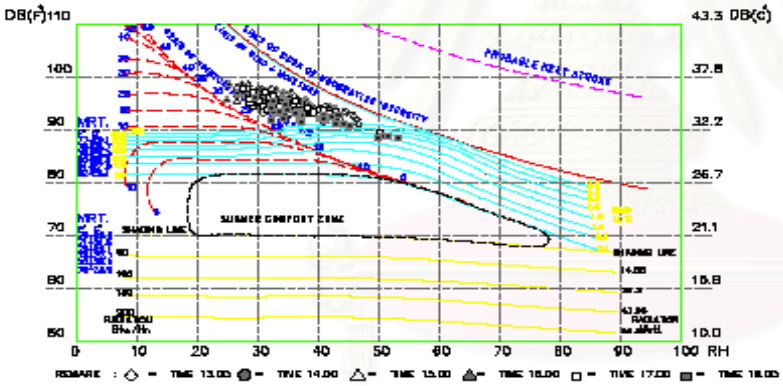


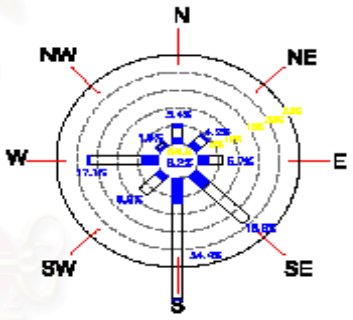
TIME : 01.00 - 06.00



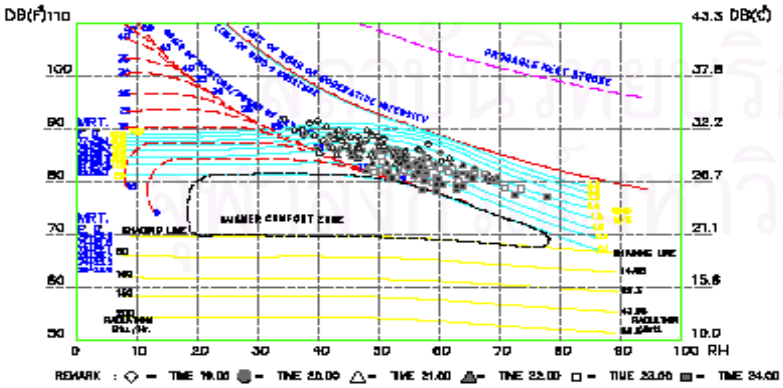


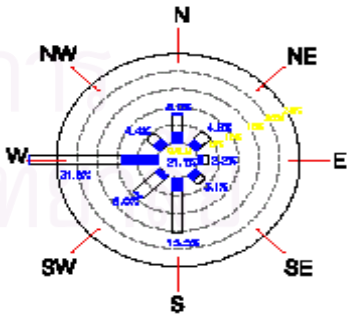
TIME : 07.00 - 12.00





TIME : 13.00 - 18.00



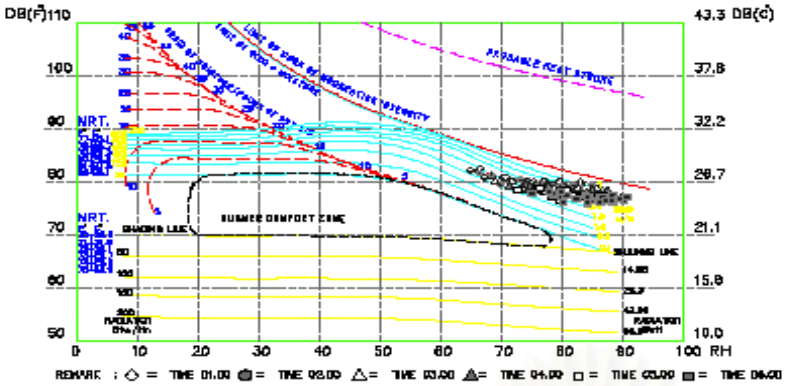


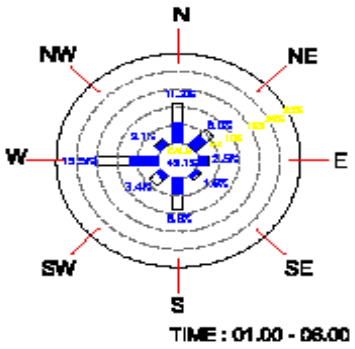
TIME : 18.00 - 24.00

BIOCLIMATIC CHART

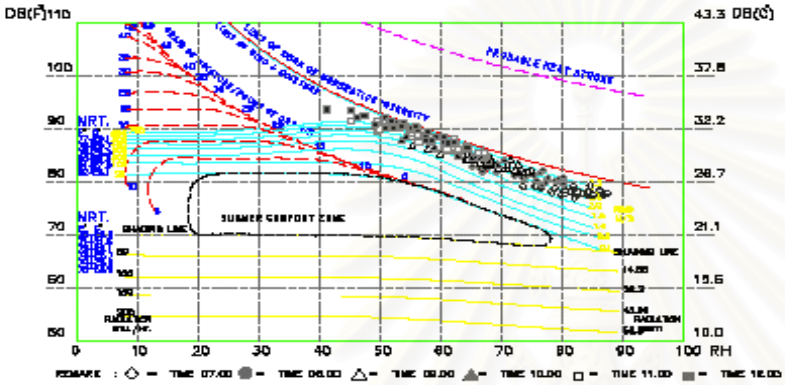
WIND ROSE

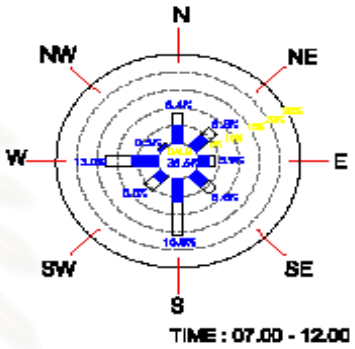
BIOCLIMATIC CHART & WIND ROSE :MAY 1961-1990 (2524-2541) **Station : CHIANG MAI**



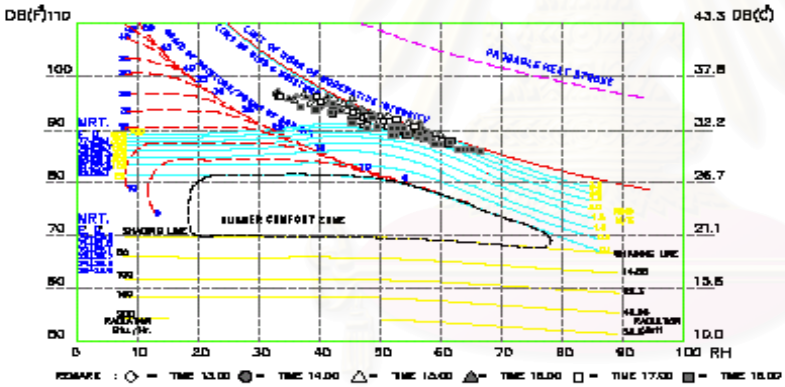


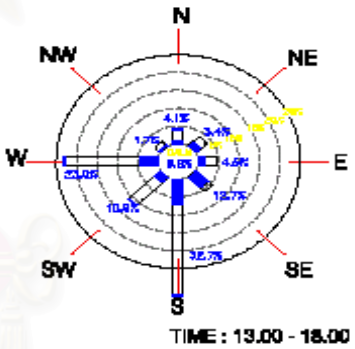
TIME : 01.00 - 06.00



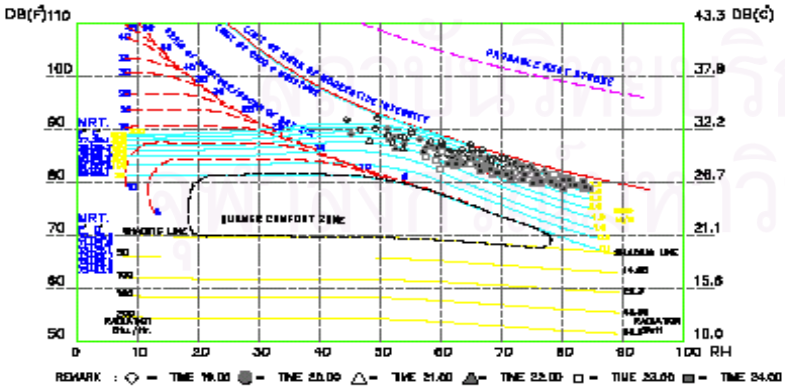


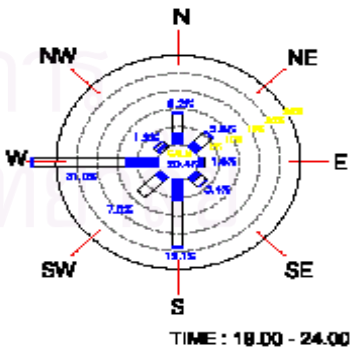
TIME : 07.00 - 12.00





TIME : 13.00 - 18.00



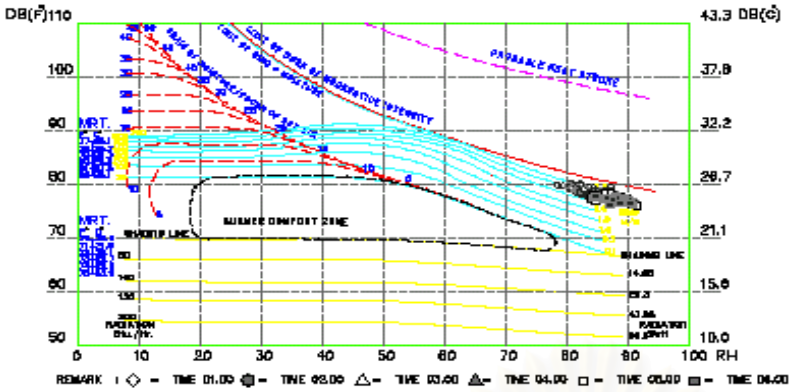


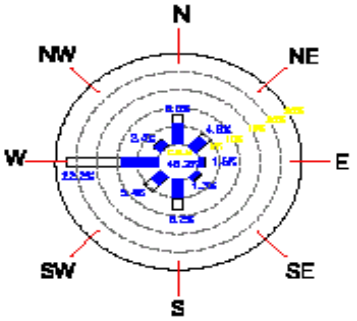
TIME : 19.00 - 24.00

BIOCLIMATIC CHART

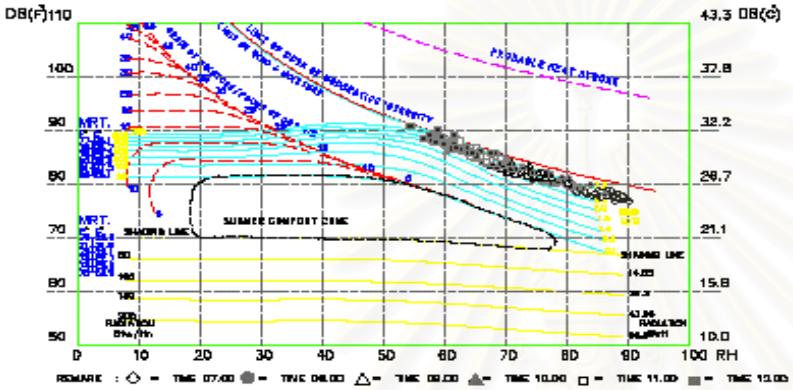
WIND ROSE

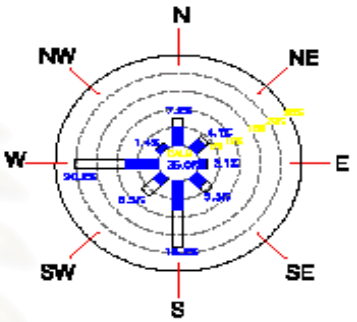
BIOCLIMATIC CHART & WIND ROSE : JUNE 1961-1990 (2504-2541) **Station : CHIANG MAI**



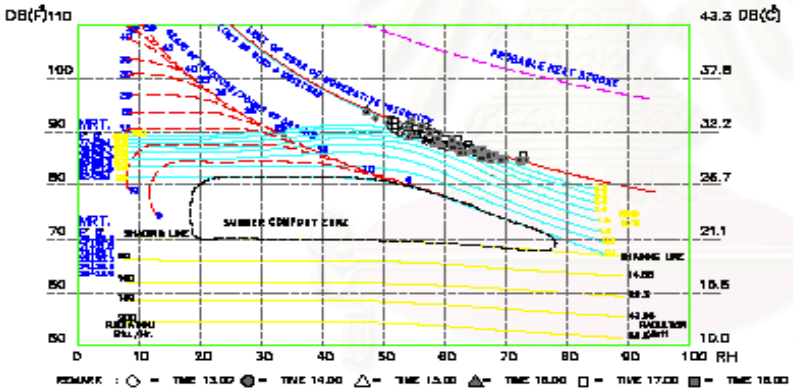


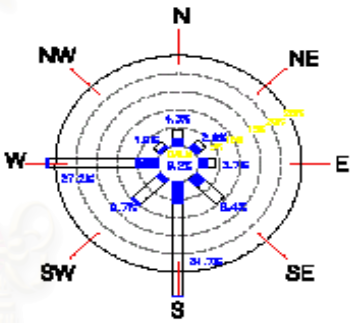
TIME : 01.00 - 06.00



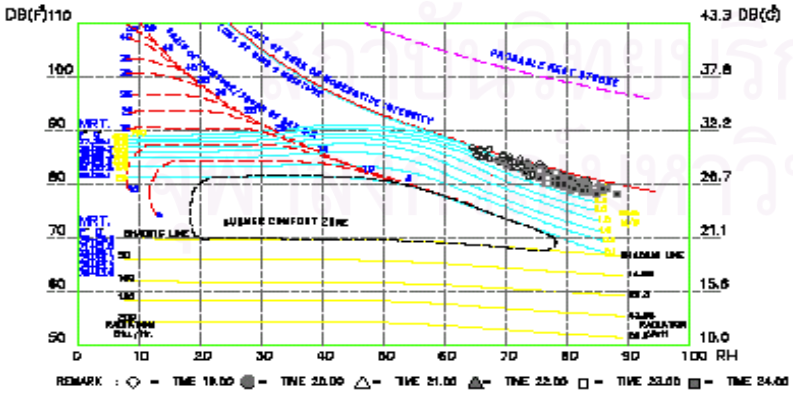


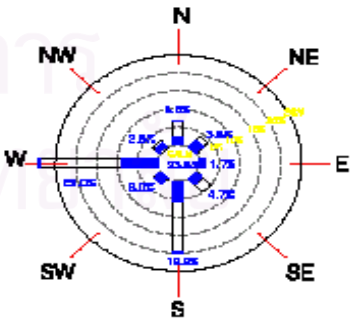
TIME : 07.00 - 12.00





TIME : 13.00 - 18.00

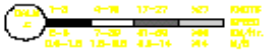




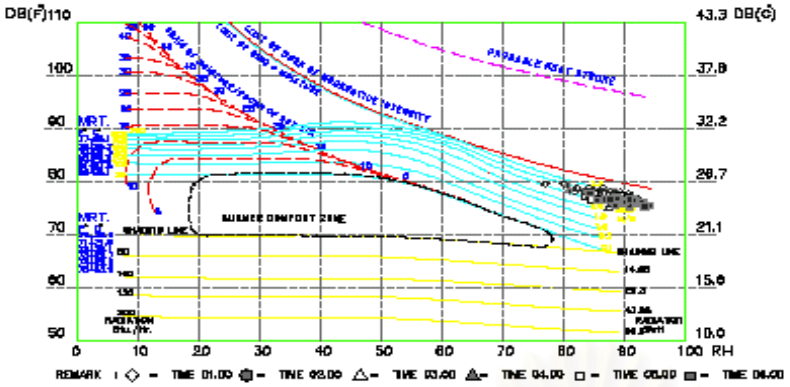
TIME : 19.00 - 24.00

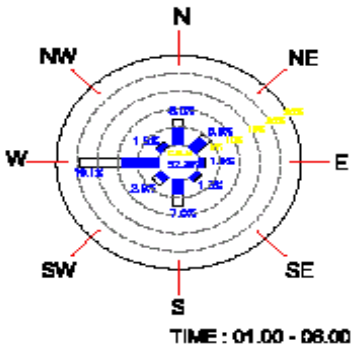
BIOCLIMATIC CHART

WIND ROSE

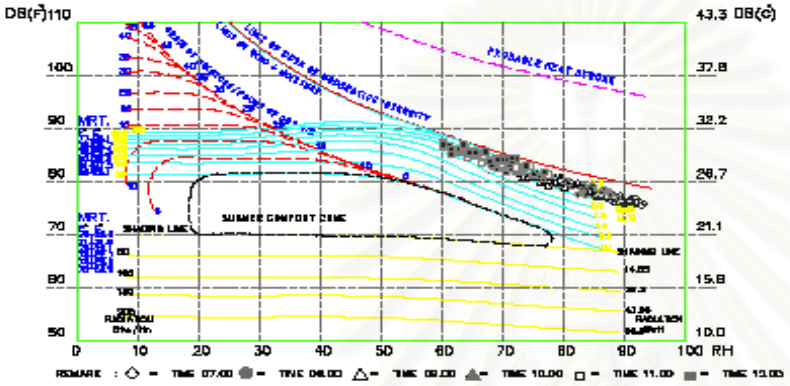


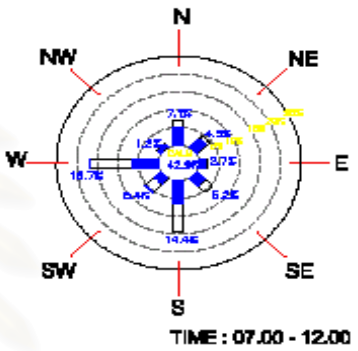
BIOCLIMATIC CHART & WIND ROSE : JULY **Year 1981-1998 (2524-2541)** **Station : CHIANG MAI**



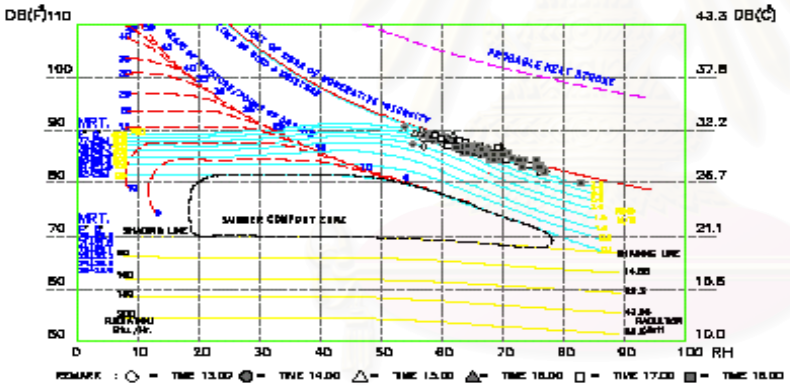


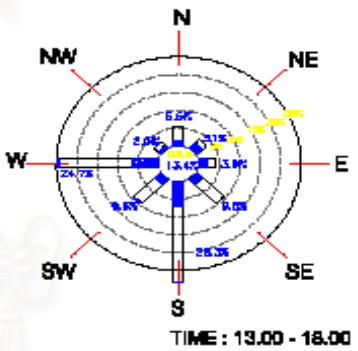
TIME : 01.00 - 06.00



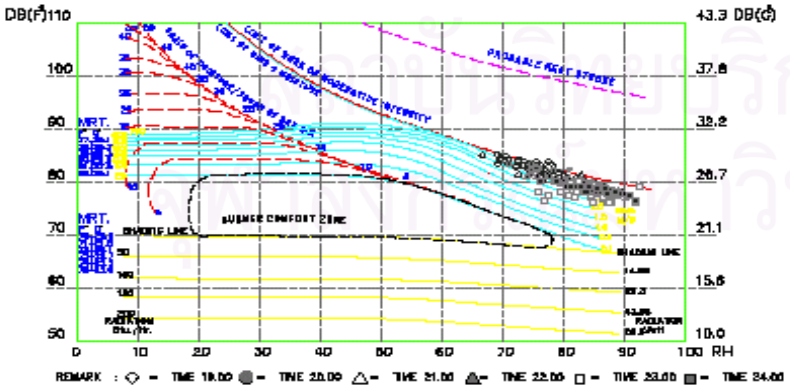


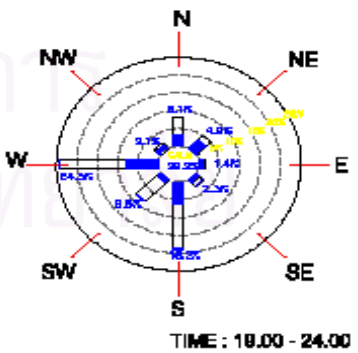
TIME : 07.00 - 12.00





TIME : 13.00 - 18.00



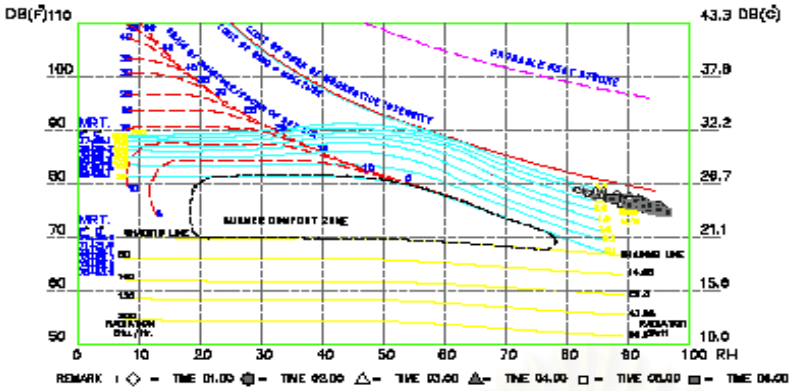


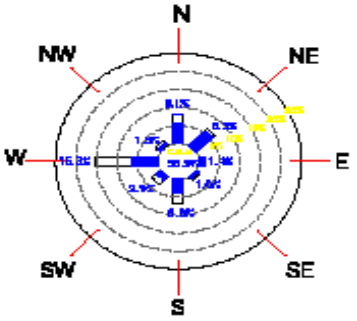
TIME : 19.00 - 24.00

BIOCLIMATIC CHART

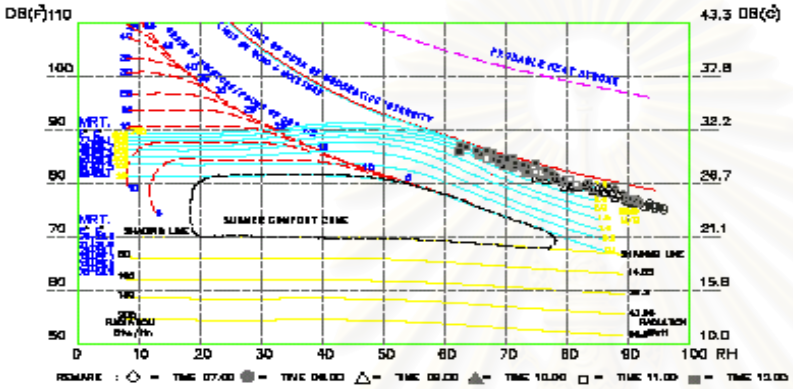
WIND ROSE

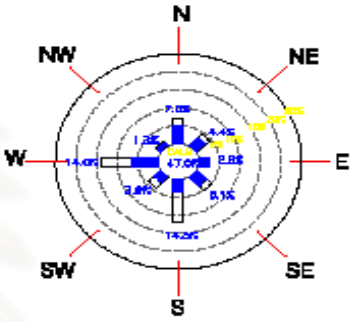
BIOCLIMATIC CHART & WIND ROSE : AUGUST 1961-1990 (2504-2541) **Station : CHIANG MAI**



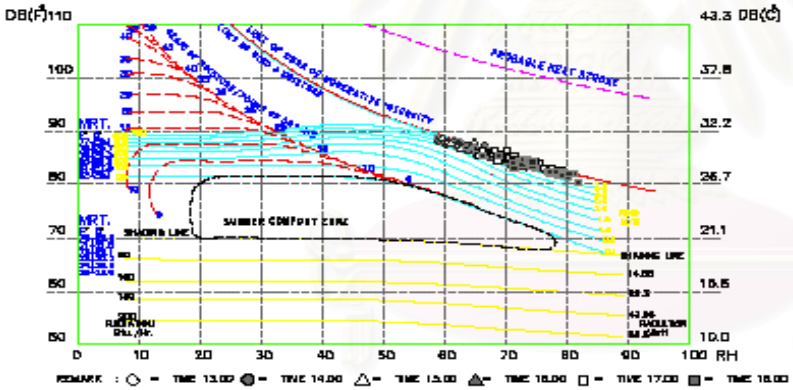


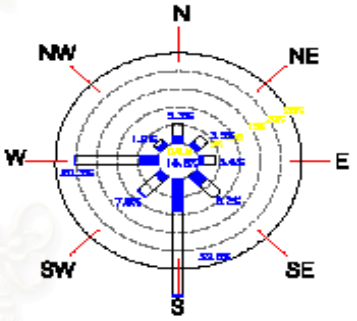
TIME : 01.00 - 06.00



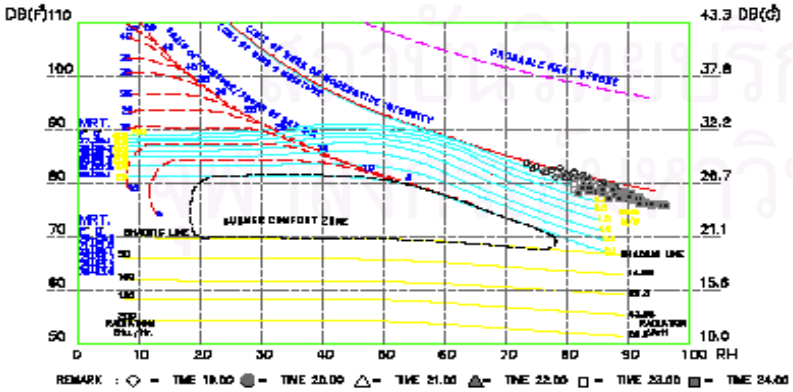


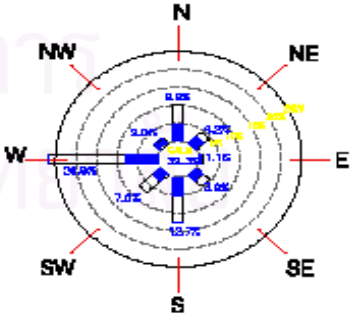
TIME : 07.00 - 12.00





TIME : 13.00 - 18.00



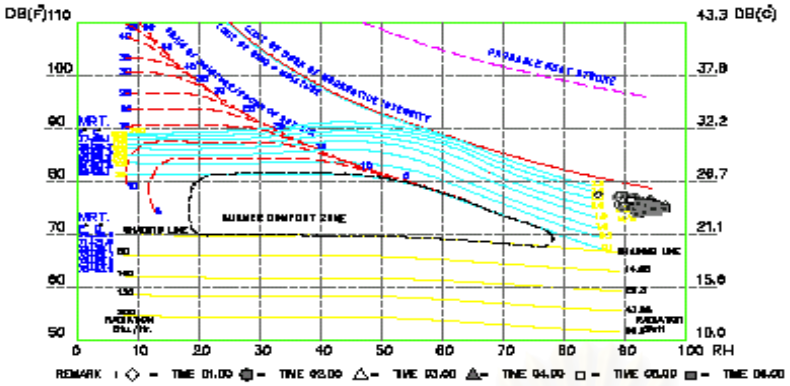


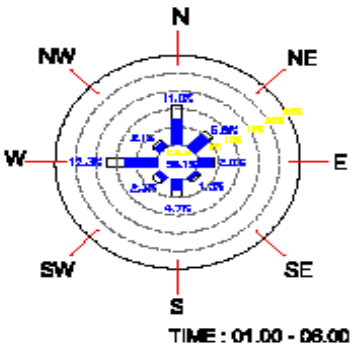
TIME : 19.00 - 24.00

BIOCLIMATIC CHART

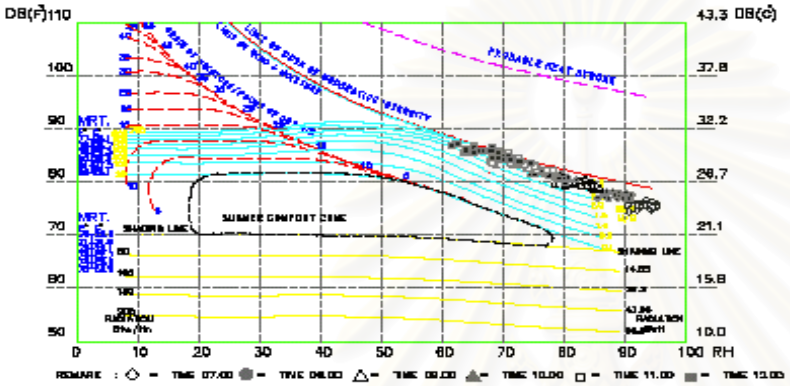
WIND ROSE

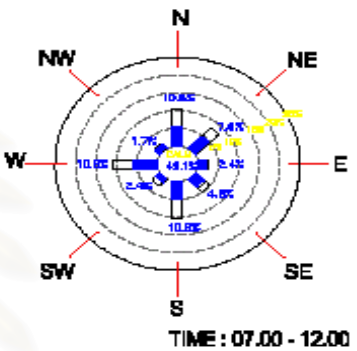
BIOCLIMATIC CHART & WIND ROSE : SEPTEMBER 1961-1990 (2524-2541) **Station : CHIANG MAI**



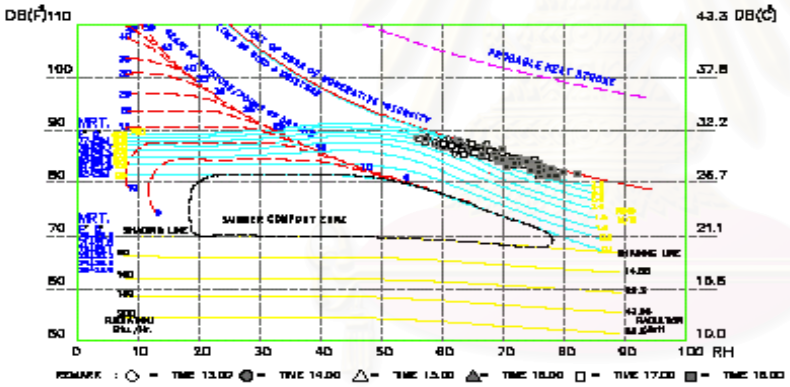


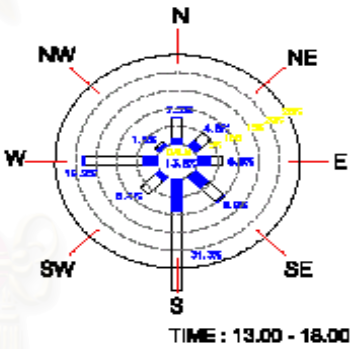
TIME : 01.00 - 06.00



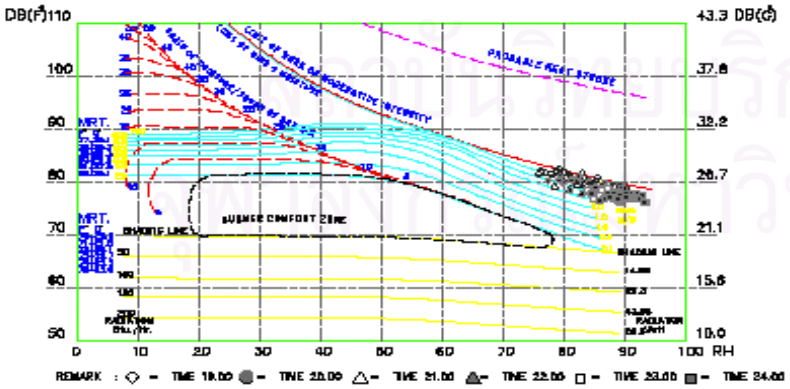


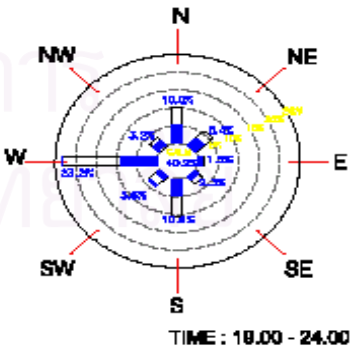
TIME : 07.00 - 12.00





TIME : 13.00 - 18.00



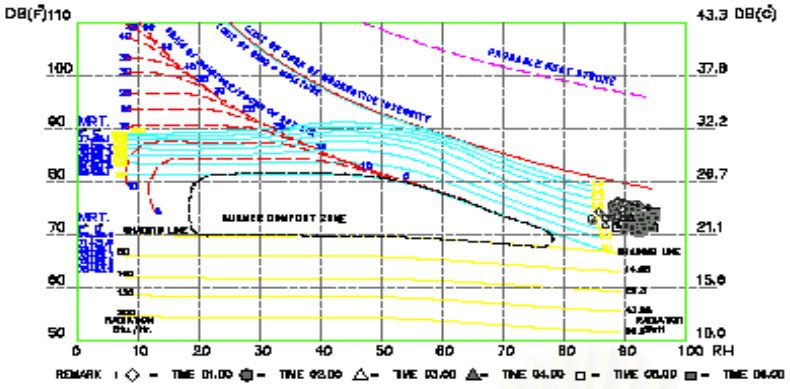


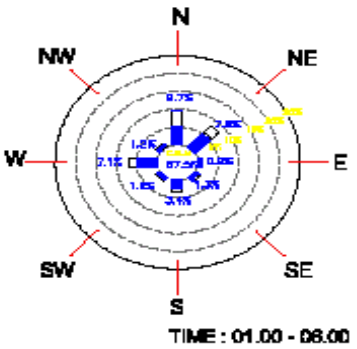
TIME : 19.00 - 24.00

BIOCLIMATIC CHART

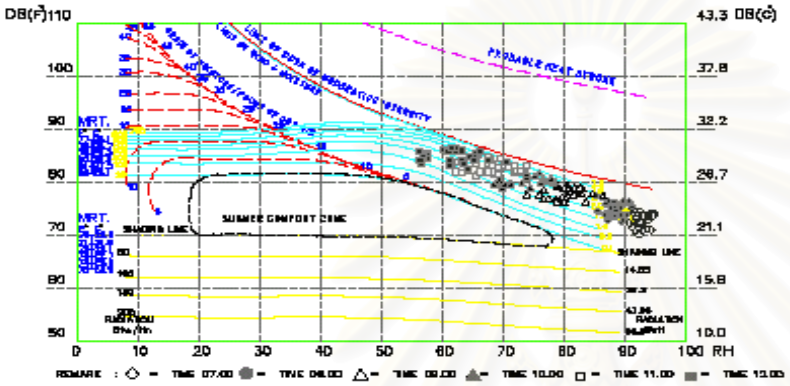
WIND ROSE

BIOCLIMATIC CHART & WIND ROSE : OCTOBER 1961-1990 (2504-2541) **Station : CHIANG MAI**

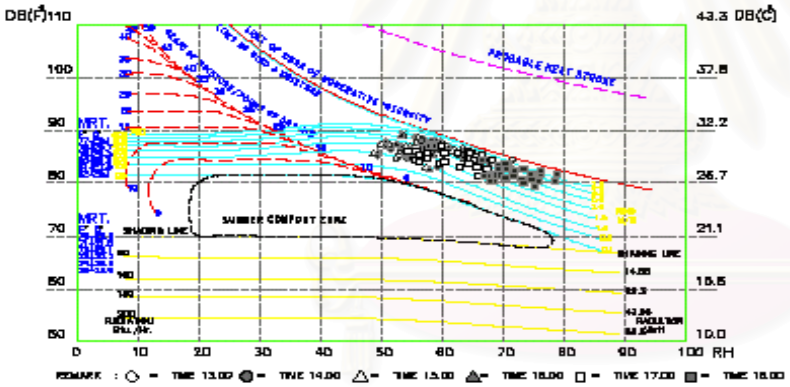


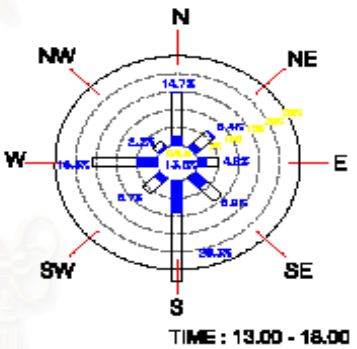


TIME : 01.00 - 06.00

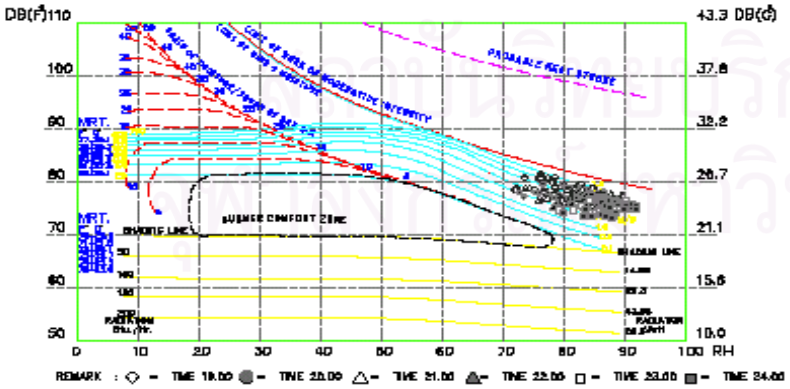


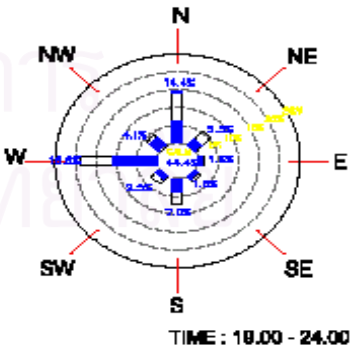
TIME : 07.00 - 12.00





TIME : 13.00 - 18.00



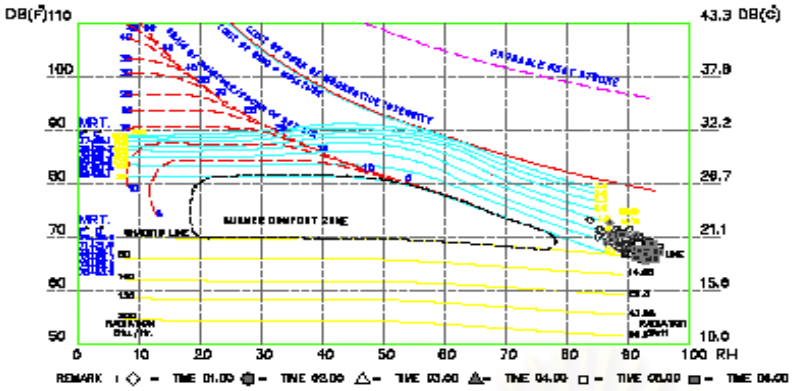


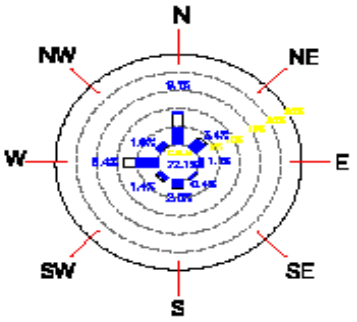
TIME : 19.00 - 24.00

BIOCLIMATIC CHART

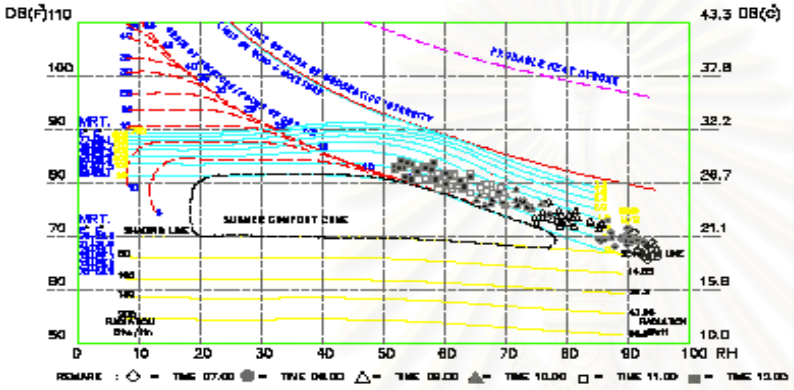
WIND ROSE

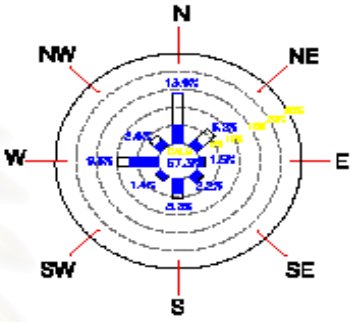
BIOCLIMATIC CHART & WIND ROSE : NOVEMBER 1981-1986 (2524-2541) **Station : CHIANG MAI**



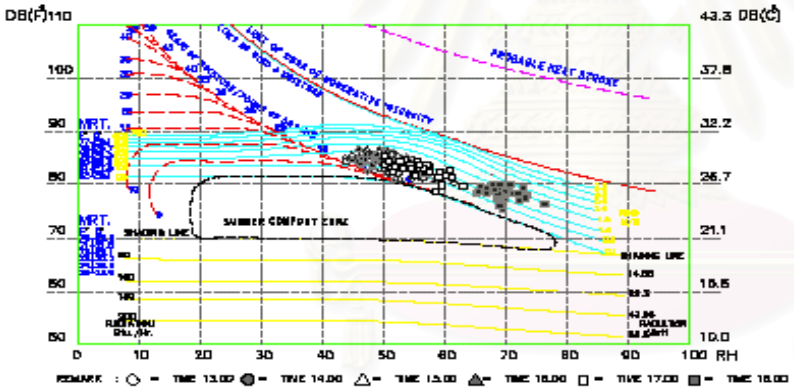


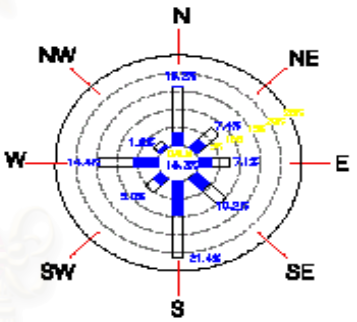
TIME : 01.00 - 06.00



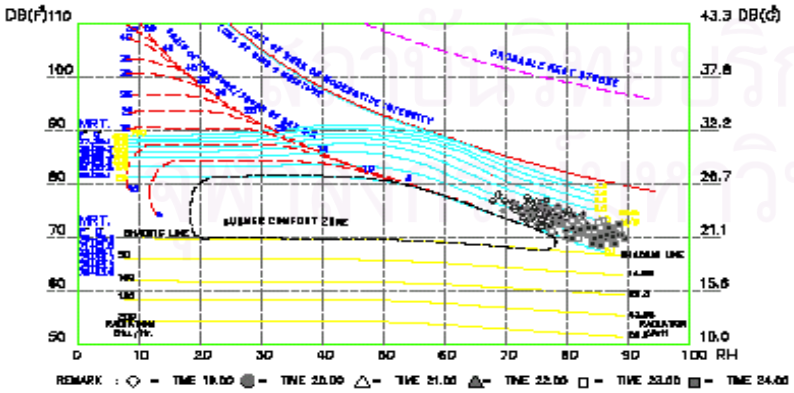


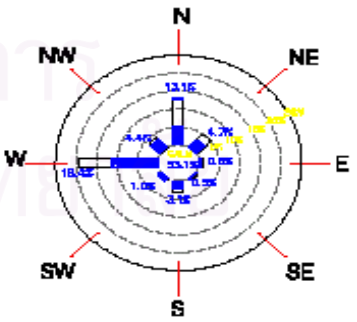
TIME : 07.00 - 12.00





TIME : 13.00 - 18.00



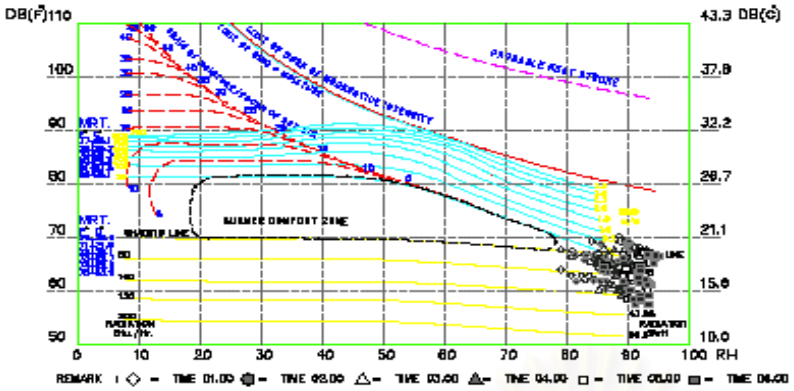


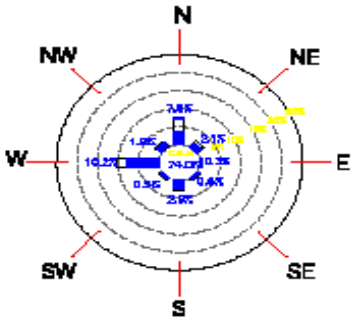
TIME : 19.00 - 24.00

BIOCLIMATIC CHART

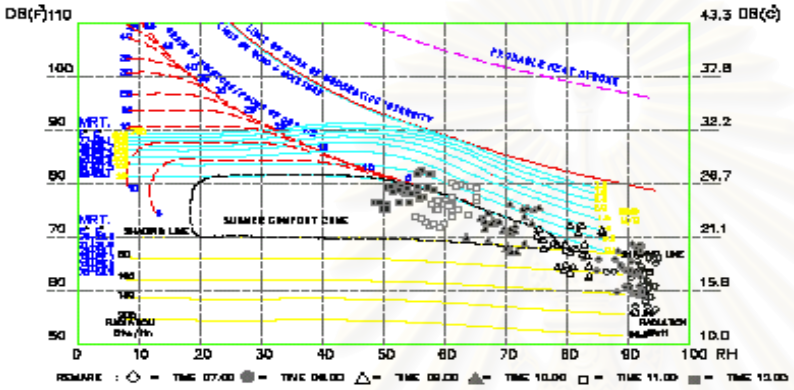
WIND ROSE

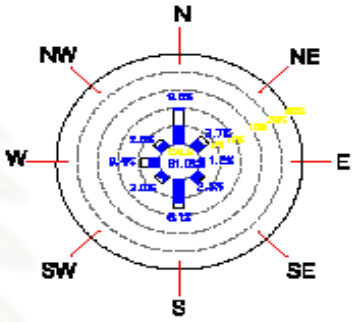
BIOCLIMATIC CHART & WIND ROSE : DECEMBER Year 1981-1998 (2524-2541) Station : CHIANG MAI



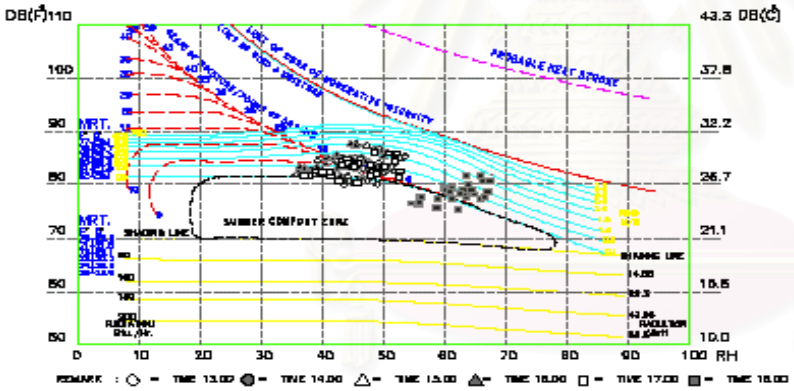


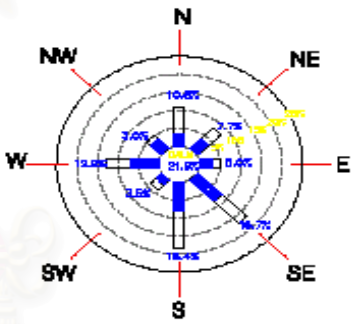
TIME : 01.00 - 06.00



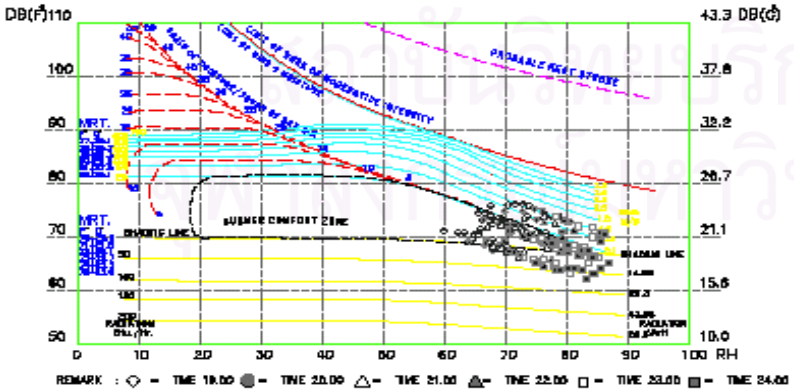


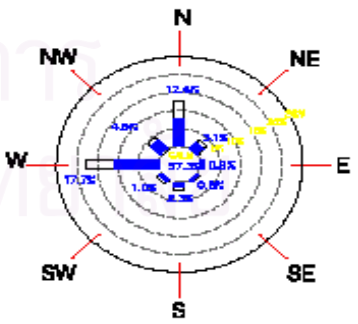
TIME : 07.00 - 12.00





TIME : 13.00 - 18.00



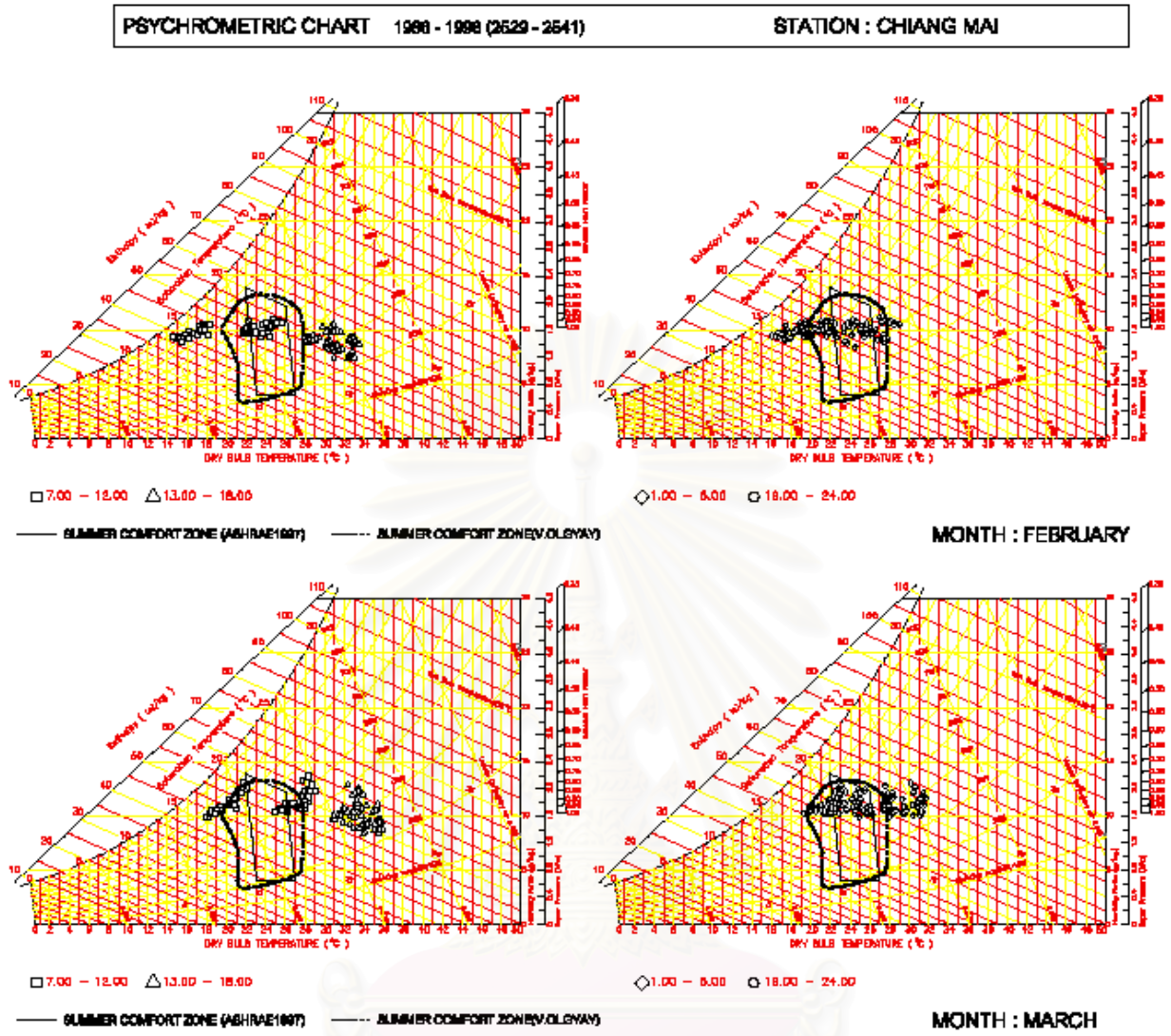


TIME : 19.00 - 24.00

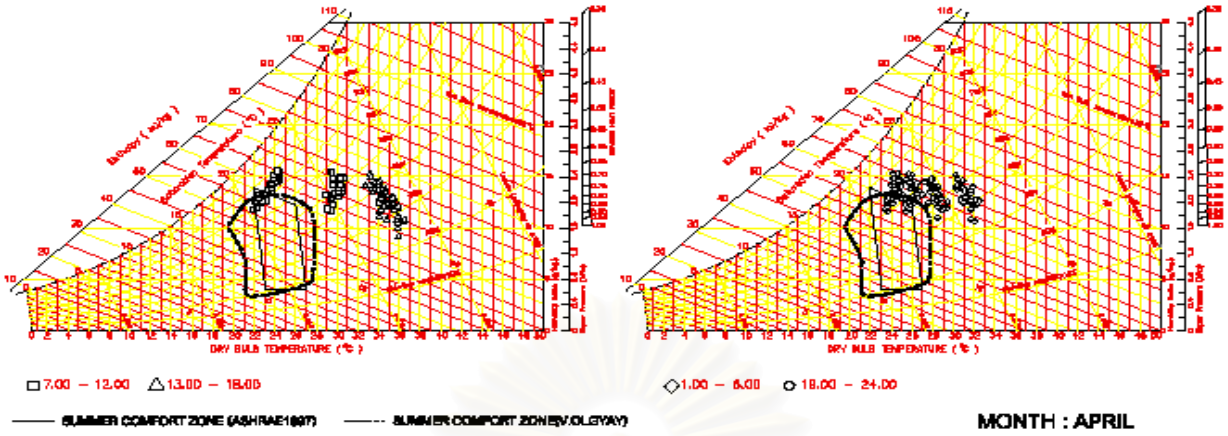
BIOCLIMATIC CHART

WIND ROSE

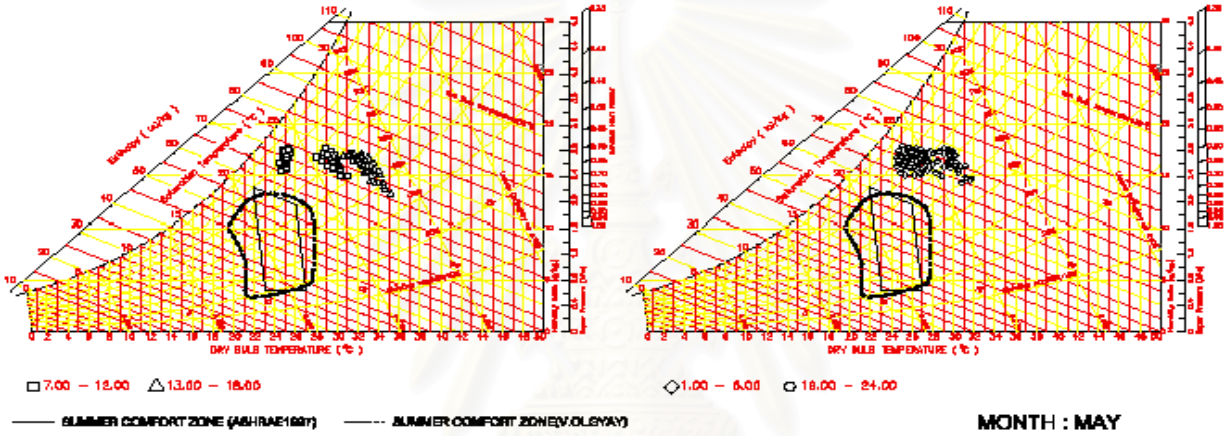
แผนภูมิความสัมพันธ์ระหว่างข้อมูลสภาวะอากาศ ในแผนภูมิไซโครเมตริก (psychromatric chart) แยกตามช่วงเวลา



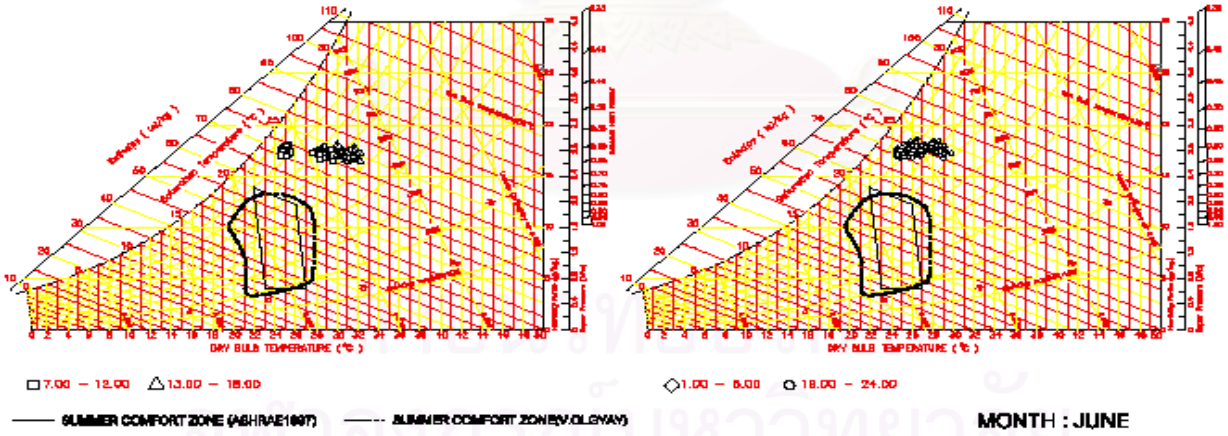
PSYCHROMETRIC CHART 1988 - 1998 (2529 - 2541) STATION : CHIANG MAI



MONTH : APRIL

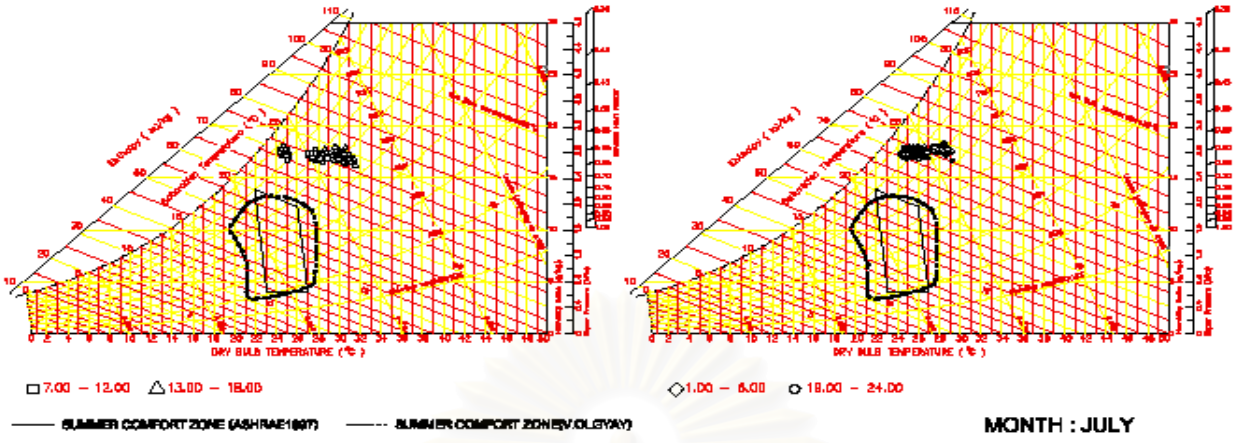


MONTH : MAY

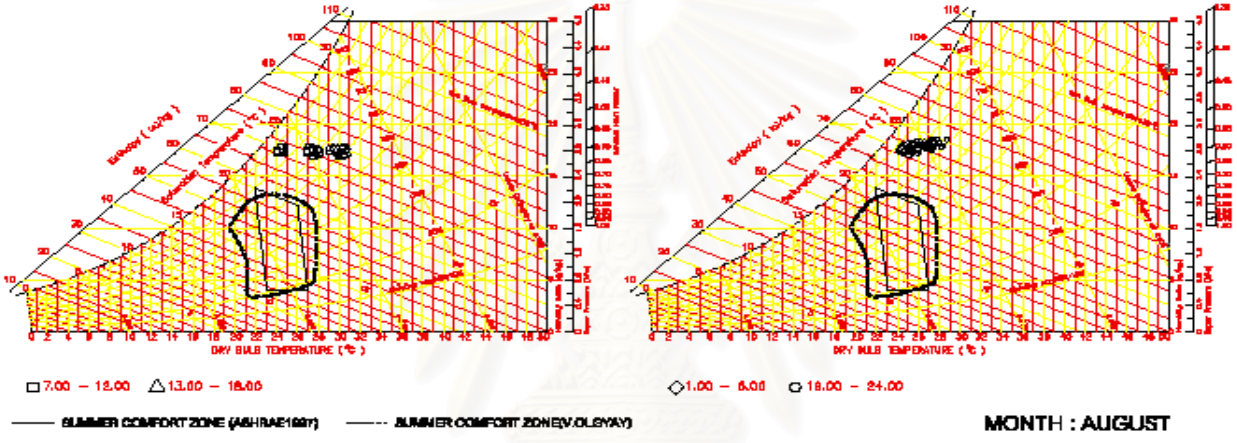


MONTH : JUNE

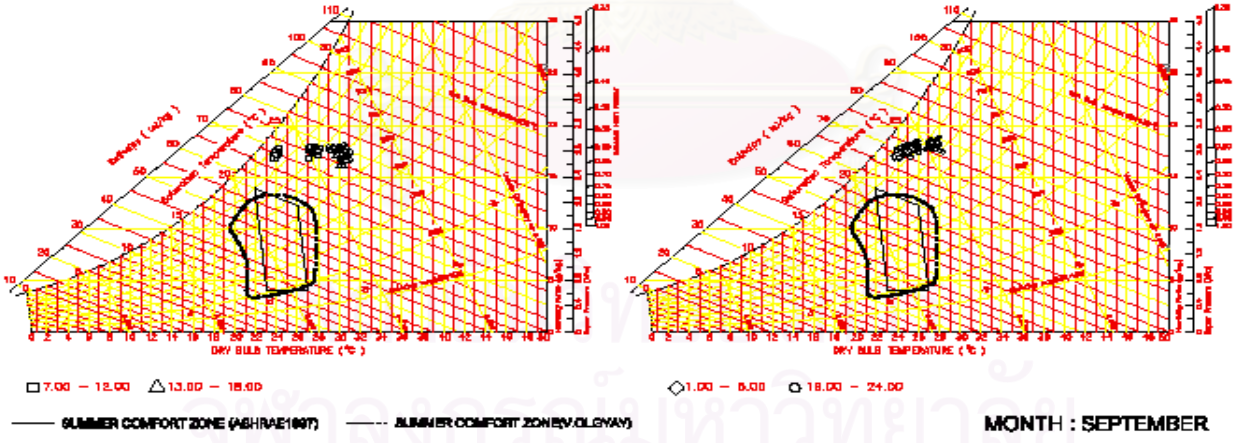
PSYCHROMETRIC CHART 1988 - 1998 (2529 - 2541) STATION : CHIANG MAI



MONTH : JULY

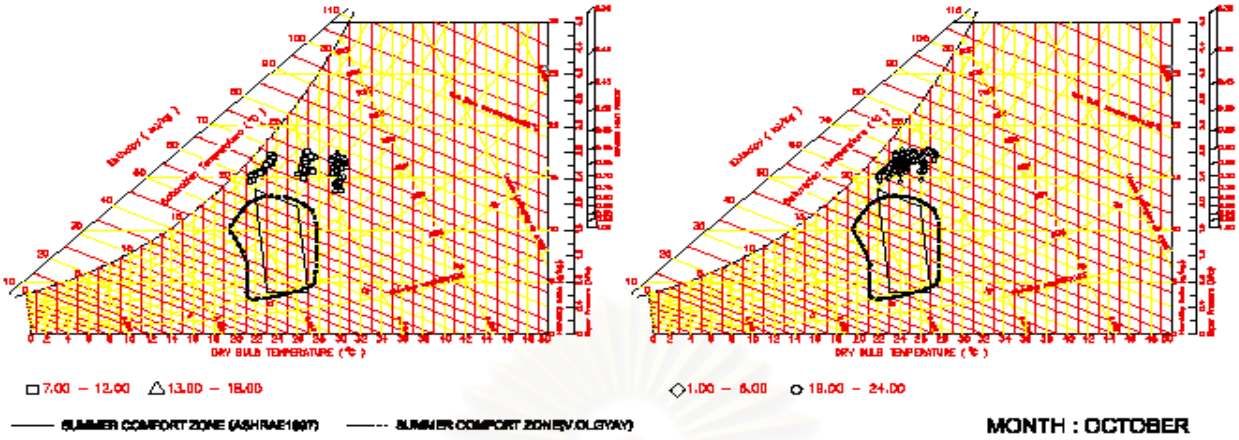


MONTH : AUGUST

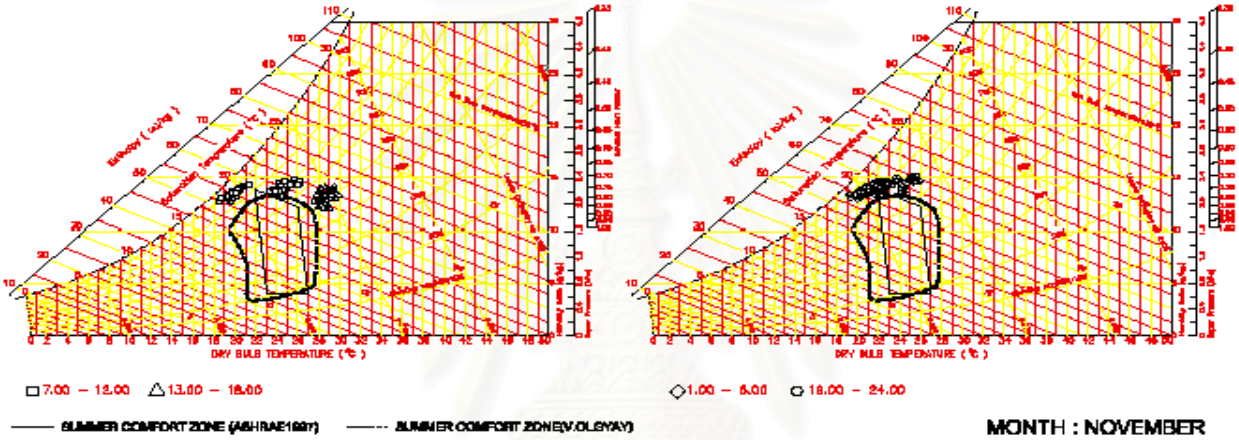


MONTH : SEPTEMBER

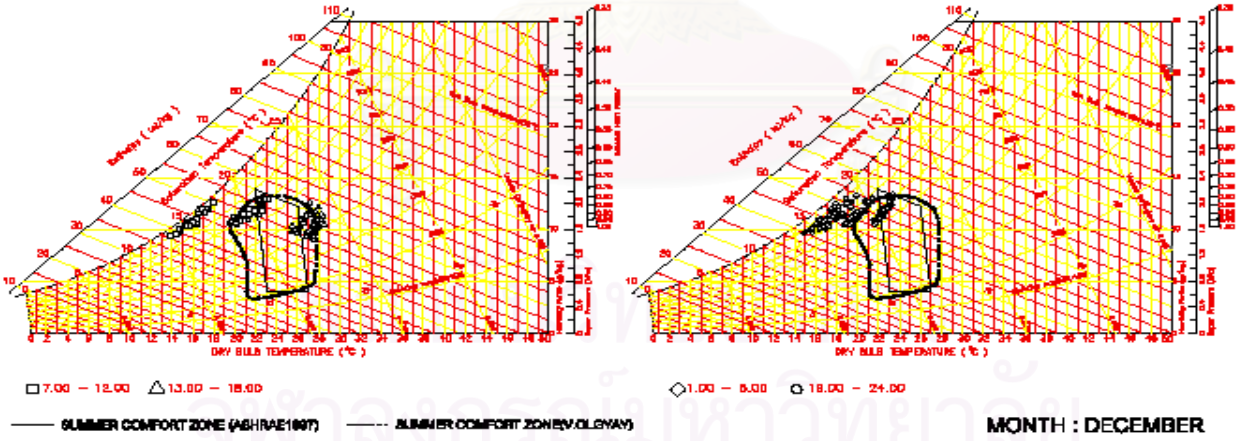
PSYCHROMETRIC CHART 1988 - 1998 (2529 - 2541) STATION : CHIANG MAI



MONTH : OCTOBER



MONTH : NOVEMBER



MONTH : DECEMBER

ตารางแสดงผลข้อมูลจำนวนรายชั่วโมงอุณหภูมิกระเปาะแห้ง และค่าเฉลี่ยอุณหภูมิกระเปาะเปียกที่เกิดขึ้น จำแนกตามช่วงอุณหภูมิกระเปาะแห้ง (bin data) ในแต่ละช่วงเวลา

ANNUAL BIN-HOUR WEATHER DATA — STATION : CHIANG MAI

Hours of occurrence of DB in each bin with MCWB in parentheses — year : 1997

Temperature range	Observation hour group 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		Total Observation	MCWB	Temperature range
°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							15	(21.2)	1	(21.9)			16	(21.5)	100 / 104
35.0 / 37.2					8	(23.5)	107	(22.6)	48	(21.9)			163	(22.7)	95 / 99
32.2 / 34.4					54	(24.5)	248	(24.1)	103	(23.2)	5	(21.7)	410	(23.4)	90 / 94
29.4 / 31.7	1	(23.2)			272	(23.7)	542	(23.4)	257	(23.0)	51	(23.2)	1,123	(23.3)	85 / 89
26.7 / 28.9	51	(23.2)	52	(23.1)	525	(22.5)	397	(22.7)	429	(22.6)	227	(22.8)	1,681	(22.8)	80 / 84
23.9 / 26.1	623	(22.6)	512	(22.7)	354	(21.9)	133	(21.8)	400	(21.9)	639	(22.0)	2,661	(22.2)	75 / 79
21.1 / 23.3	396	(21.4)	450	(21.6)	137	(20.5)	17	(21.2)	166	(21.1)	284	(21.1)	1,450	(21.2)	70 / 74
18.3 / 20.6	149	(18.0)	146	(18.9)	76	(17.2)	4	(18.5)	53	(16.8)	162	(17.1)	590	(17.8)	65 / 69
15.6 / 17.8	145	(14.8)	122	(15.7)	33	(15.2)	1	(17.4)	7	(15.6)	87	(15.5)	395	(15.7)	60 / 64
12.8 / 15.0	89	(13.3)	145	(13.3)	5	(13.2)					9	(13.6)	248	(13.3)	55 / 59
10.0 / 12.2	10	(11.0)	37	(11.3)									47	(11.1)	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

BIN-HOUR WEATHER DATA Hours of occurrence of DB in each bin with MCWB in parentheses — **STATION : CHIANG MAI**

Temperature range	Observation hour group						Total Observation	MCWB
°C	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	**January**							
40.6 / 42.8								
37.8 / 40.0								
35.0 / 37.2								
32.2 / 34.4								
29.4 / 31.7				41 (18.5)	12 (17.9)		53	(18.2)
26.7 / 28.9			10 (18.3)	61 (18.3)	21 (18.0)		92	(18.2)
23.9 / 26.1			32 (17.4)	20 (17.1)	23 (17.4)	2 (16.2)	77	(17.5)
21.1 / 23.3			39 (16.7)	2 (15.3)	39 (16.9)	9 (17.4)	79	(16.6)
18.3 / 20.6	3 (16.6)		36 (15.6)		26 (15.5)	54 (15.8)	111	(15.9)
15.6 / 17.8	52 (14.7)	15 (15.1)	30 (14.5)		3 (14.2)	52 (14.3)	142	(14.6)
12.8 / 15.0	59 (12.9)	74 (12.9)	5 (13.2)			7 (13.0)	145	(13.0)
10.0 / 12.2	10 (11.0)	36 (10.8)					46	(10.9)
7.2 / 9.4								
4.4 / 6.7								
1.7 / 3.9								
°C	**April**							
40.6 / 42.8								
37.8 / 40.0				12 (22.3)	1 (21.9)		13	(22.1)
35.0 / 37.2			7 (23.4)	50 (23.2)	25 (22.4)		82	(23.0)
32.2 / 34.4			37 (23.2)	28 (24.5)	27 (22.1)	3 (21.6)	95	(22.9)
29.4 / 31.7	1 (23.2)		39 (23.2)	16 (24.6)	30 (22.9)	33 (21.7)	119	(23.1)
26.7 / 28.9	26 (22.0)	13 (22.5)	33 (22.6)	7 (23.5)	14 (23.9)	40 (21.9)	133	(22.7)
23.9 / 26.1	68 (21.2)	54 (21.5)	9 (23.0)	5 (22.1)	18 (22.3)	34 (22.2)	188	(22.0)
21.1 / 23.3	25 (21.4)	52 (20.6)	5 (21.4)	2 (21.5)	5 (21.6)	10 (22.2)	99	(21.4)
18.3 / 20.6		1 (20.8)					1	(20.8)
15.6 / 17.8								
12.8 / 15.0								
10.0 / 12.2								
7.2 / 9.4								
4.4 / 6.7								
1.7 / 3.9								
4.4 / 6.7								
1.7 / 3.9								

Temperature range	Observation hour group						Total Observation	MCWB
°C	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	**February**							
40.6 / 42.8								
37.8 / 40.0								
35.0 / 37.2				1 (19.5)	1 (19.1)		2	(19.3)
32.2 / 34.4				27 (19.5)	9 (18.9)		36	(19.2)
29.4 / 31.7			7 (19.8)	37 (19.7)	15 (19.4)		59	(19.7)
26.7 / 28.9			24 (19.0)	29 (18.6)	26 (18.6)	4 (18.6)	83	(18.7)
23.9 / 26.1	4 (21.8)		29 (18.5)	9 (19.1)	25 (18.4)	9 (18.4)	76	(19.2)
21.1 / 23.3	6 (17.6)	6 (20.1)	36 (18.3)	5 (19.5)	31 (17.7)	39 (17.2)	116	(18.4)
18.3 / 20.6	47 (17.2)	36 (17.6)	27 (16.6)	4 (18.5)	6 (16.2)	59 (16.6)	169	(17.5)
15.6 / 17.8	49 (14.7)	47 (15.1)	3 (15.6)	1 (17.4)	3 (17.5)	5 (16.5)	108	(16.2)
12.8 / 15.0	8 (13.1)	37 (13.2)					45	(13.2)
10.0 / 12.2								
7.2 / 9.4								
4.4 / 6.7								
1.7 / 3.9								
°C	**May**							
40.6 / 42.8								
37.8 / 40.0								
35.0 / 37.2				10 (25.9)			10	(25.9)
32.2 / 34.4			8 (25.9)	66 (25.6)	17 (25.3)		91	(25.6)
29.4 / 31.7			57 (24.9)	36 (25.1)	44 (24.6)	2 (25.3)	141	(25.0)
26.7 / 28.9	15 (24.3)	30 (23.9)	66 (24.2)	8 (24.7)	44 (24.1)	48 (23.8)	190	(24.2)
23.9 / 26.1	98 (23.2)	61 (23.4)	3 (23.8)	1 (22.8)	17 (24.3)	70 (23.6)	270	(23.5)
21.1 / 23.3	11 (22.3)	23 (22.5)	1 (23.5)	1 (22.0)	2 (22.3)	4 (23.1)	42	(22.6)
18.3 / 20.6								
15.6 / 17.8								
12.8 / 15.0								
10.0 / 12.2								
7.2 / 9.4								
4.4 / 6.7								
1.7 / 3.9								

Temperature range	Observation hour group						Total Observation	MCWB
°C	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	**March**							
40.6 / 42.8								
37.8 / 40.0				3 (20.0)			3	(20.0)
35.0 / 37.2			1 (23.5)	46 (21.7)	21 (21.0)		68	(22.1)
32.2 / 34.4			15 (21.7)	55 (21.1)	30 (20.3)	3 (21.8)	103	(21.2)
29.4 / 31.7			43 (21.0)	18 (21.3)	40 (20.1)	15 (20.7)	116	(20.8)
26.7 / 28.9	3 (20.1)	2 (20.8)	40 (20.2)	1 (21.9)	31 (20.1)	39 (19.8)	116	(20.5)
23.9 / 26.1	29 (19.9)	9 (19.6)	20 (19.3)	1 (21.7)	2 (18.3)	51 (18.8)	112	(19.6)
21.1 / 23.3	66 (18.2)	62 (19.0)	4 (16.7)			16 (17.4)	148	(17.8)
18.3 / 20.6	22 (15.7)	34 (16.3)	1 (19.4)			1 (15.6)	58	(16.7)
15.6 / 17.8	4 (14.2)	17 (14.2)					21	(14.2)
12.8 / 15.0								
10.0 / 12.2								
7.2 / 9.4								
4.4 / 6.7								
1.7 / 3.9								
°C	**June**							
40.6 / 42.8								
37.8 / 40.0								
35.0 / 37.2					1 (25.2)		1	(25.2)
32.2 / 34.4			2 (25.3)	28 (25.7)	8 (25.6)		38	(25.5)
29.4 / 31.7			32 (25.1)	62 (25.1)	25 (24.9)		120	(25.1)
26.7 / 28.9	1 (24.6)	6 (24.0)	65 (24.2)	27 (24.8)	56 (24.6)	29 (24.3)	184	(24.4)
23.9 / 26.1	100 (23.3)	88 (23.4)	17 (23.7)	1 (22.3)	29 (24.1)	86 (23.6)	321	(23.4)
21.1 / 23.3	19 (22.6)	26 (22.6)	3 (22.6)	2 (23.5)	1 (23.9)	5 (23.2)	56	(23.1)
18.3 / 20.6								
15.6 / 17.8								
12.8 / 15.0								
10.0 / 12.2								
7.2 / 9.4								
4.4 / 6.7								
1.7 / 3.9								

NOTE : MCWB = Mean coincident wet-bulb temperature (number in parentheses)°C : Temperature (Celsius deg.) C = (deg F-32) * 5 / 9

BIN-HOUR WEATHER DATA Hours of occurrence of DB in each bin with MCWB in parentheses — **STATION : CHIANG MAI**

Temperature range	Observation hour group 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	Total Observation	MCWB
°C	**July**							
40.6 / 42.8								
37.8 / 40.0								
35.0 / 37.2								
32.2 / 34.4			1 (25.6)	26 (24.9)	10 (24.8)		37	(25.1)
29.4 / 31.7			27 (24.7)	61 (24.9)	29 (25.0)		117	(24.8)
26.7 / 25.9	4 (23.0)	6 (23.5)	66 (24.2)	24 (24.4)	53 (24.4)	34 (24.1)	187	(24.0)
25.9 / 26.1	104 (22.4)	93 (23.4)	30 (23.5)	13 (23.6)	32 (23.9)	87 (23.8)	359	(23.6)
21.1 / 23.3	16 (22.7)	25 (22.6)				3 (23.4)	44	(22.9)
18.3 / 20.6								
15.6 / 17.8								
12.8 / 15.0								
10.0 / 12.2								
7.2 / 9.4								
4.4 / 6.7								
1.7 / 3.9								
°C	**October**							
40.6 / 42.8								
37.8 / 40.0								
35.0 / 37.2								
32.2 / 34.4				6 (24.9)			6	(24.9)
29.4 / 31.7			25 (24.2)	81 (24.4)	13 (24.0)		119	(24.2)
26.7 / 28.9		1 (23.0)	54 (23.7)	33 (23.7)	39 (24.0)	1 (22.9)	128	(23.8)
23.9 / 26.1	44 (23.5)	37 (23.3)	44 (23.3)	3 (23.6)	65 (23.5)	86 (23.3)	279	(23.4)
21.1 / 23.3	77 (22.2)	83 (22.1)	1 (20.9)	1 (24.1)	7 (22.9)	37 (22.5)	206	(22.4)
18.3 / 20.6	3 (20.6)	3 (20.2)					6	(20.4)
15.6 / 17.8								
12.8 / 15.0								
10.0 / 12.2								
7.2 / 9.4								
4.4 / 6.7								
1.7 / 3.9								

Temperature range	Observation hour group 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	Total Observation	MCWB
°C	**August**							
40.6 / 42.8								
37.8 / 40.0								
35.0 / 37.2								
32.2 / 34.4				9 (25.1)	2 (25.3)		11	(25.2)
29.4 / 31.7			16 (24.8)	56 (25.2)	24 (25.1)	1 (25.0)	97	(25.1)
26.7 / 25.9	2 (24.8)	4 (23.9)	62 (24.2)	41 (24.4)	40 (24.7)	21 (24.5)	170	(24.4)
25.9 / 26.1	77 (23.5)	66 (23.4)	38 (23.6)	17 (23.7)	41 (23.9)	73 (23.8)	312	(23.6)
21.1 / 23.3	45 (22.4)	54 (22.4)	8 (22.5)	1 (22.9)	9 (22.8)	29 (22.7)	146	(22.6)
18.3 / 20.6								
15.6 / 17.8								
12.8 / 15.0								
10.0 / 12.2								
7.2 / 9.4								
4.4 / 6.7								
1.7 / 3.9								
°C	**November**							
40.6 / 42.8								
37.8 / 40.0								
35.0 / 37.2								
32.2 / 34.4								
29.4 / 31.7			4 (24.3)	52 (23.2)	4 (23.8)		60	(23.8)
26.7 / 28.9			42 (22.7)	58 (22.7)	24 (22.6)		124	(22.7)
23.9 / 26.1	10 (22.5)	8 (22.9)	51 (22.3)	10 (22.3)	55 (22.3)	31 (22.7)	165	(22.6)
21.1 / 23.3	66 (21.6)	53 (21.6)	23 (21.2)		27 (21.5)	82 (21.3)	251	(21.4)
18.3 / 20.6	44 (19.5)	55 (19.4)				7 (20.1)	106	(19.7)
15.6 / 17.8		4 (17.6)					4	(17.6)
12.8 / 15.0								
10.0 / 12.2								
7.2 / 9.4								
4.4 / 6.7								
1.7 / 3.9								

Temperature range	Observation hour group 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	Total Observation	MCWB	Temperature range
°C	**September**								°F
40.6 / 42.8									105 / 109
37.8 / 40.0									100 / 104
35.0 / 37.2									95 / 99
32.2 / 34.4			1 (25.4)	2 (25.3)			3	(25.4)	90 / 94
29.4 / 31.7			20 (24.9)	72 (25.1)	20 (25.1)		112	(25.1)	85 / 89
26.7 / 25.9			63 (24.4)	35 (24.6)	50 (25.1)	11 (25.1)	159	(24.6)	80 / 84
25.9 / 26.1	89 (23.7)	76 (23.7)	33 (23.9)	11 (24.1)	46 (24.4)	100 (24.0)	355	(24.0)	75 / 79
21.1 / 23.3	31 (22.8)	44 (22.6)	3 (22.4)		4 (23.1)	9 (22.9)	91	(22.8)	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
°C	**December**								°F
40.6 / 42.8									105 / 109
37.8 / 40.0									100 / 104
35.0 / 37.2									95 / 99
32.2 / 34.4				1 (24.2)			1	(24.2)	90 / 94
29.4 / 31.7			1 (23.9)	8 (23.4)	1 (23.0)		10	(23.4)	85 / 89
26.7 / 28.9			11 (22.0)	73 (20.5)	13 (21.2)		97	(21.2)	80 / 84
25.9 / 26.1			46 (20.5)	42 (18.7)	47 (20.4)	10 (21.9)	147	(20.4)	75 / 79
21.1 / 23.3	32 (21.1)	22 (21.2)	24 (18.6)		41 (18.6)	41 (20.3)	170	(20.0)	70 / 74
18.3 / 20.6	30 (16.6)	27 (19.1)	20 (17.0)		21 (16.6)	41 (17.4)	139	(17.7)	65 / 69
15.6 / 17.8	40 (15.7)	39 (16.2)	10 (15.5)		1 (15.0)	30 (15.7)	120	(15.6)	60 / 64
12.8 / 15.0	22 (13.8)	34 (13.7)				3 (14.3)	59	(13.9)	55 / 59
10.0 / 12.2		2 (11.0)					2	(11.0)	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 : CHIANG MAI**

YEARS : 1981 - 1998 (2524-2541)

TEMPERATURE Degree °F	°C	MEAN TEMP.DEGREE (°F) HOURS OF OCCURRENCE	NO. OF HOURS BELOW TEMPERATURE	NO. OF DEGREE HOURS OF HEATING BELOW TEMPERATURE °F	°C	NO. OF HOURS ABOVE TEMPERATURE	NO. OF DEGREE HOURS OF COOLING ABOVE TEMPERATURE °F	°C
35	1.7	(37.5)	-	-	-	8,784.00	386,497.80	214,506.28
36	2.2		-	-	-	8,784.00	377,713.80	209,631.16
37	2.8	0	-	-	-	8,784.00	368,929.80	204,756.04
38	3.3		-	-	-	8,784.00	360,145.80	199,880.92
39	3.9		-	-	-	8,784.00	351,361.80	195,005.80
40	4.4	(42.5)	-	-	-	8,784.00	342,577.80	190,130.68
41	5.0		-	-	-	8,784.00	333,793.80	185,255.56
42	5.6	0	-	-	-	8,784.00	325,009.80	180,380.44
43	6.1		-	-	-	8,784.00	316,225.80	175,505.32
44	6.7		-	-	-	8,784.00	307,441.80	170,630.20
45	7.2	(47.5)	-	-	-	8,784.00	298,657.80	165,755.08
46	7.8		-	-	-	8,784.00	289,873.80	160,879.96
47	8.3	0	-	-	-	8,784.00	281,089.80	156,004.84
48	8.9		-	-	-	8,784.00	272,305.80	151,129.72
49	9.4		-	-	-	8,784.00	263,521.80	146,254.60
50	10.0	52.5	-	-	-	8,784.00	254,737.80	141,379.48
51	10.6		-	-	-	8,784.00	245,953.80	136,504.36
52	11.1	0	-	-	-	8,784.00	237,169.80	131,629.24
53	11.7		-	-	-	8,784.00	228,385.80	126,754.12
54	12.2		-	-	-	8,784.00	219,601.80	121,879.00
55	12.8	(57.5)	24.60	-	-	8,784.00	210,817.80	117,003.88
56	13.3		49.20	61.50	34.13	8,759.40	202,096.30	112,162.89
57	13.9	123	73.80	123.00	68.27	8,734.80	193,372.80	107,321.90
58	14.4		98.40	184.50	102.40	8,710.20	184,650.30	102,480.92
59	15.0		123.00	246.00	136.53	8,685.60	175,927.80	97,639.93
60	15.6	(62.5)	220.20	307.50	170.66	8,661.00	167,205.30	92,798.94
61	16.1		317.40	673.50	373.79	8,563.80	158,787.30	88,126.95
62	16.7	486	414.60	1,039.50	576.92	8,466.60	150,369.30	83,454.96
63	17.2		511.80	1,405.50	780.05	8,369.40	141,951.30	78,782.97
64	17.8		609.00	1,771.50	983.18	8,272.20	133,533.30	74,110.98
65	18.3	(67.5)	738.00	2,137.50	1,186.31	8,175.00	125,115.30	69,438.99
66	18.9		867.00	3,069.00	1,703.30	8,046.00	117,262.80	65,080.85
67	19.4	645	996.00	4,000.50	2,220.28	7,917.00	109,410.30	60,722.72
68	20.0		1,125.00	4,932.00	2,737.26	7,788.00	101,557.80	56,364.58
69	20.6		1,254.00	5,863.50	3,254.24	7,659.00	93,705.30	52,008.44

หมายเหตุ : วิธีการหาค่า degree hours ได้จากการคำนวณจากจำนวนชั่วโมง hours of occurence ที่เกิดขึ้นในแต่ละช่วงอุณหภูมิจุดสมดุลย์ที่พิจารณา โดยอาศัยข้อมูลสภาพอากาศราย 3 ชั่วโมง

DEGREE HOURS & HOURS OF OCCURRENCE

Station : CHIANG MAI

YEARS : 1981 - 1998 (2524-2541)

TEMPERATURE Degree		MEAN TEMP.DEGREE (^{O}F)	NO. OF HOURS	NO. OF DEGREE HOURS OF HEATING BELOW TEMPERATURE		NO. OF HOURS	NO. OF DEGREE HOURS OF COOLING ABOVE TEMPERATURE	
^{O}F	^{O}C	HOURS OF OCCURRENCE	BELOW TEMPERATURE	^{O}F	^{O}C	ABOVE TEMPERATURE	^{O}F	^{O}C
70	21.1	(72.5)	1,449.60	6,795.00	3,771.23	7,530.00	85,852.80	47,648.30
71	21.7		1,645.20	8,538.00	4,738.59	7,334.40	78,811.80	43,740.55
72	22.2	978	1,840.80	10,281.00	5,705.96	7,138.80	71,770.80	39,832.79
73	22.8		2,036.40	12,024.00	6,673.32	6,943.20	64,729.80	35,925.04
74	23.3		2,232.00	13,767.00	7,640.69	6,747.60	57,688.80	32,017.28
75	23.9	(77.5)	2,738.40	15,510.00	8,608.05	6,552.00	50,647.80	28,109.53
76	24.4		3,244.80	19,008.00	10,549.44	6,045.60	45,361.80	25,175.80
77	25.0	2532	3,751.20	22,506.00	12,490.83	5,539.20	40,075.80	22,242.07
78	25.6		4,257.60	26,004.00	14,432.22	5,032.80	34,789.80	19,308.34
79	26.1		4,764.00	29,502.00	16,373.61	4,526.40	29,503.80	16,374.61
80	26.7	(82.5)	5,146.20	33,000.00	18,315.00	4,020.00	24,217.80	13,440.88
81	27.2		5,528.40	38,719.50	21,489.32	3,637.80	21,153.30	11,740.08
82	27.8	1911	5,910.60	44,439.00	24,663.65	3,255.60	18,088.80	10,039.28
83	28.3		6,292.80	50,158.50	27,837.97	2,873.40	15,024.30	8,338.49
84	28.9		6,675.00	55,878.00	31,012.29	2,491.20	11,959.80	6,637.69
85	29.4	(87.5)	6,980.40	61,597.50	34,186.61	2,109.00	8,895.30	4,936.89
86	30.0		7,285.80	69,036.00	38,314.98	1,803.60	7,549.80	4,190.14
87	30.6	1527	7,591.20	76,474.50	42,443.35	1,498.20	6,204.30	3,443.39
88	31.1		7,896.60	83,913.00	46,571.72	1,192.80	4,858.80	2,696.63
89	31.7		8,202.00	91,351.50	50,700.08	887.40	3,513.30	1,949.88
90	32.2	(92.5)	8,292.00	98,790.00	54,828.45	582.00	2,167.80	1,203.13
91	32.8		8,382.00	107,217.00	59,505.44	492.00	1,810.80	1,004.99
92	33.3	450	8,472.00	115,644.00	64,182.42	402.00	1,453.80	806.86
93	33.9		8,562.00	124,071.00	68,859.41	312.00	1,096.80	608.72
94	34.4		8,652.00	132,498.00	73,536.39	222.00	739.80	410.59
95	35.0	(97.5)	8,678.40	140,925.00	78,213.38	132.00	382.80	212.45
96	35.6		8,704.80	149,643.00	83,051.87	105.60	290.40	161.17
97	36.1	132	8,731.20	158,361.00	87,890.36	79.20	198.00	109.89
98	36.7		8,757.60	167,079.00	92,728.85	52.80	105.60	58.61
99	37.2		8,784.00	175,797.00	97,567.34	26.40	13.20	7.33

หมายเหตุ : วิธีการหาค่า degree hours ได้จากการคำนวณจากจำนวนชั่วโมง hours of occurence ที่เกิดขึ้นในแต่ละช่วงอุณหภูมิจุดสมดุลย์ที่พิจารณา โดยอาศัยข้อมูลสภาพอากาศราย 3 ชั่วโมง