ข้อมูลอากาศประเทศไทยสำหรับงานอนุรักษ์พลังงาน
จังหวัด เชียงราย

โดย

ผศ.ธนิต จินดาวณิค

คมกฤช ชูเกียรติมั่น

ร.อ.หญิงปริมลาภ วสุวัต

สิงหาคม 2543

เล่ม

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สารบัญ

หน้า

ตารางสรุปรวมผลของข้อมูลทุกประเภทจังหวัดเชียงราย

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

Elevation of station above MSL 394 Meters

Latitude: 19 55 N

Longitude: 99 50 E

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
TEMPERATURE (° C)													
Averages													
Daily Maximum	27.9	30.9	33.6	34.2	32.2	30.9	29.8	29.7	29.9	29.1	27.6	26.1	30.2
Monthly Mean	19.3	21.2	24.6	27.1	27.3	27.3	26.6	26.4	26.1	24.8	22.1	19.0	24.3
Daily Minimum	12.9	13.6	17.1	21.2	23.6	24.4	24.2	24.1	23.4	21.7	18.1	13.8	19.8
Dry bulb Standard Diviation	5.6	6.4	6.3	5.4	3.9	3.0	2.7	2.6	2.9	3.3	4.2	5.2	4.3
Extremes													
Highest	32.5	36.0	38.5	40.2	39.2	39.2	36.0	35.2	34.7	33.7	33.7	32.9	40.2
Lowest	6.4	7.5	7.0	15.5	20.0	21.0	21.3	21.8	18.0	13.3	6.1	4.6	4.6
Monthly Dew Point	14.0	13.4	15.0	18.4	21.8	22.9	23.1	23.3	22.9	21.3	18.2	14.5	19.1
Dew Point Standard Diviation	2.7	2.9	3.0	2.8	1.7	1.0	0.9	0.8	1.2	2.0	2.7	3.2	2.1
Monthly Wet bulb Temperature	16.1	16.6	18.8	21.5	23.6	24.3	24.2	24.2	23.9	22.5	19.6	16.3	21.0
DEGREE DAY BASE 18.3 ° C													
Heating	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	2.1
Cooling	29.2	84.6	195.5	261.9	278.9	267.6	255.1	250.5	233.3	201.7	133.7	22.5	2,214.5
RELATIVE HUMIDITY (%)													
Averages													
Monthly Mean	75.0	66.0	60.0	63.4	74.3	78.8	82.3	83.9	83.4	82.3	80.6	77.7	75.6
Hour 01:00-06:00	91.0	85.3	77.7	79.0	86.9	89.3	90.9	92.1	92.9	92.8	92.7	91.7	88.5
Hour 07:00-12:00	84.8	77.4	70.9	71.8	78.7	81.4	84.8	86.7	86.8	85.7	85.2	84.9	81.6
Hour 13:00-18:00	46.4	35.6	33.0	40.1	56.6	63.9	69.5	69.5	67.8	64.1	58.4	51.4	54.7
Hour 19:00-24:00	77.8	65.6	58.5	62.7	75.2	80.5	84.1	85.7	86.2	86.5	85.9	82.6	77.6
WIND													
Average Speed (m/s)	0.4	0.6	0.7	0.8	0.8	0.9	0.8	0.8	0.6	0.6	0.6	0.5	0.7
Prevailing wind	S	S, SW	SW	SW	S, SW	SW	S, SW	S	NE	NE	NE	NE	S, SW
Maximum Speed (m/s)	5.7	6.2	8.7	10.3	23.6	6.7	6.2	6.2	5.1	5.1	6.2	6.2	23.6
SKY COVER (0-10)													
Average Sky Condition	2.1	1.8	1.9	3.6	6.1	7.5	8.3	8	6.8	5.2	4.1	2.7	4.8
Percentage of Sky cover													
Clear sky (0-3)	74	79	76	53	22	7	4	6	15	35	52	63	41
Partly Cloudy sky (4-7)	18	14	15	29	40	34	23	26	36	31	24	20	26
Cloudy sky (8-10)	7	7	9	19	38	59	72	68	49	34	25	12	33
SUNSHINE DURATION* (hours)													
Average Monthly total	263.1	254.5	245.8	251.7	230.2	153.6	112.9	130.9	165.6	196.8	206.4	230.7	2,442.2
Percentage of Sunshine	70.7	73.1	66.1	69.9	61.9	42.7	30.4	35.2	46.0	52.9	57.3	62.0	55.6
SOLAR RADIATION* (W/m^2)													
Average Hourly max	-	-	-	-	-	-	-	-	-	-	-	-	-
Average Hourly mean	-	-	-	-	-	-	-	-	-	-	-	-	-
Average Daily Total	-	-	-	-	-	-	-	-	-	-	-	-	-
RAINFALL (mm)													
Average Monthly total	4.7	10.8	15.7	83.1	183.6	186.8	340.7	372.7	262.4	125.8	74.2	12.8	1,673.3
Daily record high	16.8	53.0	29.4	64.2	90.0	143.5	112.4	148.5	121.9	116.4	81.1	67.4	148.5
Average Number of rainy days	1	1	3	10	18	20	24	23	17	11	6	1	135
(0.1 mm. Or more)													
EVAPORATION (mm)													
Average Monthly total	83.8	116.8	150.9	164.8	143.3	117.0	99.7	95.1	97.6	92.0	79.5	75.0	1,315.5

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

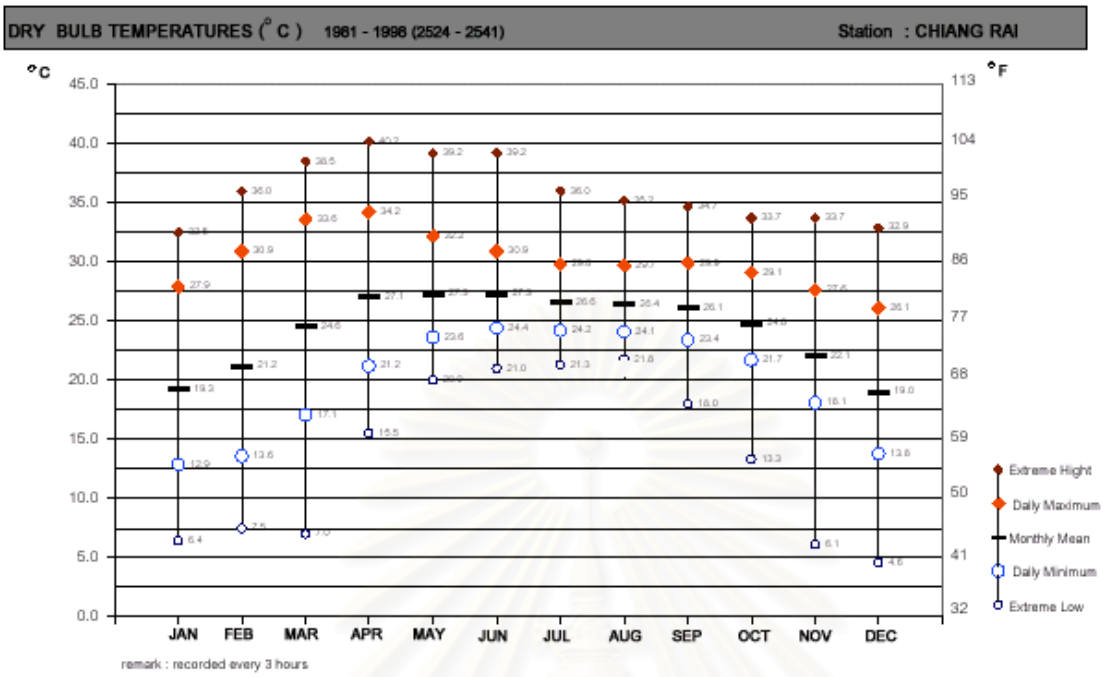
(-) missing value or no data report

ตารางแสดงผลข้อมูลอุณหภูมิกระเปาะแห้ง (dry bulb temperatures)

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

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	12.7	18.5	26.8	13.6	20.4	29.3	15.4	23.1	32.5	19.6	26.7	34.9	22.8	27.5	33.6	24.3	27.1	31.2	24.5	27.4	31.2	24.0	26.2	29.2	23.9	26.2	29.6	22.9	25.6	29.9	19.9	23.3	28.4	16.2	20.2	26.0	20.0	24.4	30.2
2	12.8	18.9	27.2	13.1	20.0	28.9	15.4	22.7	31.4	19.6	26.7	34.8	22.9	27.8	33.5	24.4	27.5	31.3	24.5	27.1	30.5	23.9	26.3	29.5	23.9	26.2	29.5	22.4	25.5	29.7	19.3	23.2	28.2	15.0	19.7	26.0	19.8	24.3	30.0
3	13.4	19.2	27.3	12.6	20.0	29.5	15.2	22.6	31.5	19.1	26.2	34.4	23.2	27.5	32.8	24.3	27.4	31.2	24.5	26.8	30.1	24.1	26.7	30.1	24.0	26.5	29.9	22.6	25.7	29.8	19.6	22.9	27.3	14.3	19.7	26.6	19.7	24.3	30.0
4	13.6	19.3	27.3	12.6	20.0	29.7	15.5	22.7	31.8	19.5	26.5	35.2	23.4	27.5	33.2	24.0	27.2	31.1	24.3	26.7	30.2	24.5	26.6	29.9	24.1	26.4	30.1	22.8	25.5	29.0	19.2	23.0	27.9	14.4	19.7	26.9	19.8	24.3	30.2
5	13.3	19.1	27.0	12.6	20.0	29.5	15.2	23.1	32.3	19.9	26.7	34.8	23.0	27.0	32.3	24.2	26.9	30.8	23.9	26.5	29.9	24.1	26.4	29.7	23.8	26.4	30.2	22.6	25.5	29.3	19.3	23.1	28.1	15.1	20.0	27.0	19.7	24.2	30.1
6	13.5	19.1	26.9	12.2	20.0	30.1	15.9	23.6	32.6	20.0	26.5	34.7	22.8	27.2	32.4	24.2	26.8	29.9	24.2	26.3	29.1	24.1	26.5	29.4	23.6	26.2	29.8	22.8	25.3	28.9	19.1	23.2	29.2	15.3	19.8	26.0	19.8	24.2	29.9
7	12.6	18.9	27.3	12.6	20.1	29.7	16.0	23.8	32.7	19.9	26.1	33.5	23.4	27.7	33.4	24.1	26.7	30.0	24.1	26.4	29.4	24.1	26.4	29.6	23.9	26.2	29.8	22.6	25.5	29.3	18.8	23.1	28.6	14.3	19.4	25.9	19.7	24.2	29.9
8	12.9	18.8	27.1	12.7	20.2	29.6	16.6	23.5	32.6	19.9	26.5	34.6	23.1	27.2	33.0	24.2	26.6	29.7	24.0	26.6	29.6	24.0	26.5	29.5	24.0	26.4	30.0	22.4	25.2	29.1	19.2	22.9	28.0	13.9	18.8	25.7	19.7	24.1	29.9
9	11.9	18.5	27.4	13.1	20.4	29.9	16.1	23.5	32.9	20.2	27.1	35.2	23.1	27.0	32.0	24.0	26.9	30.6	24.4	26.5	29.5	24.2	26.7	30.3	23.6	26.2	29.6	22.7	25.4	29.1	18.9	21.9	26.8	13.3	18.6	25.9	19.6	24.1	29.9
10	11.7	18.2	27.3	12.4	20.3	30.2	16.4	23.9	33.2	21.0	27.6	35.5	23.4	27.4	32.4	24.0	27.0	31.0	24.2	26.3	29.8	24.0	26.5	29.8	23.8	26.2	29.4	22.5	25.5	30.0	18.1	21.9	26.9	13.5	18.9	26.1	19.6	24.1	30.1
11	11.8	18.6	27.6	12.7	20.3	29.8	16.1	24.3	34.3	20.9	27.6	35.5	23.4	27.2	32.3	24.4	27.1	30.3	24.1	26.6	30.0	24.1	26.4	29.4	23.7	26.4	30.6	22.6	25.4	29.4	18.2	22.1	27.6	13.8	19.0	25.8	19.7	24.3	30.2
12	12.3	18.8	27.8	13.1	20.6	30.7	16.2	24.0	33.3	21.0	27.7	35.1	23.6	27.6	32.5	24.5	27.0	30.3	24.3	26.8	30.5	24.0	26.3	29.3	23.6	26.6	30.8	22.8	25.5	29.4	18.0	21.9	27.2	14.4	19.5	26.7	19.8	24.4	30.3
13	12.6	19.3	28.4	12.6	20.7	31.1	16.1	24.2	34.0	21.6	27.5	34.8	23.6	27.3	32.6	24.3	27.2	31.0	24.7	27.0	30.1	24.2	26.5	29.7	23.5	26.5	30.6	22.4	25.4	29.7	17.9	22.1	27.7	14.3	19.6	26.8	19.8	24.4	30.5
14	13.2	19.7	28.2	12.8	21.1	31.6	16.4	24.7	34.6	21.4	27.4	34.7	23.3	27.2	32.1	24.4	27.5	31.2	24.6	27.0	30.4	24.1	26.2	29.2	23.5	26.4	30.4	22.3	25.2	28.8	18.3	22.0	27.1	14.8	19.6	26.6	19.9	24.5	30.4
15	12.9	19.5	28.2	13.0	21.2	31.8	17.6	25.0	34.1	21.4	27.2	34.1	23.8	27.3	31.8	24.5	27.6	31.5	24.0	26.2	29.1	24.1	26.5	30.0	23.5	25.8	29.0	21.7	24.9	29.1	17.9	21.9	27.5	14.3	19.3	26.0	19.9	24.4	30.2
16	13.3	19.5	27.9	13.1	21.5	31.6	17.1	24.8	34.4	21.3	27.5	35.0	23.5	27.4	32.5	24.6	27.7	31.5	24.1	26.5	30.1	24.0	26.4	29.8	23.5	26.3	30.0	21.8	25.1	29.5	17.7	21.8	27.4	14.3	19.5	26.4	19.9	24.5	30.5
17	13.2	19.6	27.9	13.5	21.6	31.8	17.2	24.9	34.6	21.7	27.4	34.1	23.7	27.3	32.1	24.6	27.7	31.9	24.0	26.6	30.3	24.1	26.6	30.0	23.5	26.2	29.8	21.9	24.8	29.2	18.0	22.2	27.8	14.4	19.4	26.1	20.0	24.5	30.5
18	13.0	19.2	27.9	13.4	21.4	31.7	16.8	24.8	34.5	21.9	27.5	34.2	23.4	27.1	31.9	24.4	27.5	31.5	24.1	26.8	30.2	24.2	26.4	29.2	23.6	26.1	29.6	21.3	24.6	28.9	18.8	22.5	27.9	13.7	19.0	26.0	19.9	24.4	30.3
19	12.2	18.9	27.8	14.0	21.7	31.6	17.9	25.4	34.4	22.1	27.6	34.7	23.6	27.3	32.2	24.4	27.5	31.0	24.2	26.9	30.6	24.1	26.3	29.9	23.4	26.1	30.0	21.7	25.0	29.5	18.8	22.5	27.7	13.5	19.0	26.3	20.0	24.5	30.5
20	12.7	19.4	28.4	14.1	21.8	31.5	17.4	25.5	34.6	22.0	27.7	34.8	23.7	27.5	32.5	24.6	27.4	31.2	24.5	27.1	30.8	23.9	26.4	29.9	23.4	26.2	30.0	21.8	24.7	28.9	18.3	22.4	28.1	13.4	19.0	26.6	20.0	24.6	30.6
21	12.6	19.3	28.1	14.3	21.7	30.6	18.7	26.0	34.8	21.5	26.8	32.9	23.8	27.3	31.7	24.6	27.8	32.3	24.4	26.7	30.0	24.1	26.6	29.9	23.2	25.8	29.2	21.3	24.5	28.6	18.3	22.5	28.0	13.4	18.9	26.1	20.0	24.5	30.2
22	12.5	19.5	28.3	14.8	22.3	31.3	18.2	25.9	34.7	21.7	26.9	33.2	24.2	27.7	32.1	24.9	27.6	31.2	24.1	26.5	29.5	24.2	26.6	30.3	22.9	26.0	30.5	21.3	24.4	28.8	18.1	22.0	27.5	13.5	19.0	26.3	20.0	24.5	30.3
23	12.3	19.3	28.3	15.1	22.4	31.2	18.1	25.7	34.8	21.9	27.1	33.2	24.2	27.9	32.3	24.6	27.3	30.9	24.1	26.2	29.3	24.1	26.3	29.5	23.2	25.8	29.9	21.3	24.5	28.9	18.0	21.9	27.6	13.2	18.7	26.0	20.0	24.4	30.2
24	11.9	18.9	28.2	14.7	22.4	31.6	17.7	25.3	34.3	22.0	27.4	34.0	23.9	27.3	31.8	24.5	27.4	31.1	24.1	26.2	29.2	23.8	26.1	29.4	22.8	25.7	29.6	21.0	24.3	29.0	17.8	21.7	27.3	12.4	18.0	25.4	19.7	24.2	30.1
25	12.3	19.2	28.2	14.7	22.3	31.6	17.7	25.5	34.3	22.3	27.3	33.5	23.8	26.9	31.1	24.6	27.4	30.8	24.2	26.1	28.8	24.0	26.2	29.5	22.9	25.6	29.6	20.5	24.1	28.7	16.8	21.3	27.5	11.8	17.8	25.9	19.6	24.1	30.0
26	13.2	19.6	28.0	15.3	22.9	32.1	18.3	25.5	33.5	22.0	26.8	33.3	24.1	27.5	32.2	24.7	27.2	30.6	24.2	26.3	29.5	24.1	26.1	29.4	22.6	25.8	30.5	20.8	24.4	29.4	16.5	20.9	26.9	12.2	17.9	25.7	19.8	24.2	30.1
27	14.0	19.9	27.8	15.3	23.2	32.7	18.6	25.4	33.5	22.3	26.8	32.5	24.2	27.6	31.9	24.6	27.0	30.4	24.1	26.4	29.6	24.0	26.1	29.0	23.0	25.6	29.4	20.5	23.8	28.2	16.3	20.8	26.9	12.7	18.1	25.6	20.0	24.2	29.8
28	14.0	20.1	28.3	15.3	23.0	32.7	19.0	25.6	33.0	22.2	26.7	33.3	24.0	26.8	30.7	24.6	27.1	30.5	24.1	26.4	29.2	24.0	26.7	30.4	22.7	25.8	30.1	20.2	23.8	28.8	16.9	21.0	27.0	12.9	18.3	25.8	20.0	24.3	30.0
29	14.4	20.1	28.4	15.7	22.8	32.1	19.2	26.1	34.7	22.1	26.9	33.1	23.8	26.6	30.1	24.3	27.1	30.9	24.2	26.5	29.4	24.3	26.8	30.2	22.9	25.8	29.8	19.8	23.8	29.2	16.8	20.9	26.9	12.7	18.2	25.9	20.0	24.3	30.1
30	13.7	20.2	29.2				19.4	26.4	34.3	22.7	27.5	33.6	24.2	27.2	31.0	24.4	27.2	30.7	24.3	26.1	28.9	24.3	26.2	29.1	22.9	25.8	30.3	19.9	23.6	28.7	16.0	20.8	27.1	12.9	18.3	26.0	20.4	24.5	29.9
31	13.3	20.3	29.6				19.4	26.3	33.8				24.5	27.3	31.0				24.0	25.9	28.7	23.9	26.1	29.3				20.2	23.7	28.5				12.5	18.1	26.2	19.7	24.0	29.6
Average	12.9	19.3	27.9	13.6	21.2	30.9	17.1	24.6	33.6	21.2	27.1	34.2	23.6	27.3	32.2	24.4	27.3	30.9	24.2	26.6	29.8	24.1	26.4	29.7	23.4	26.1	29.9	21.7	24.8	29.1	18.1	22.1	27.6	13.8	19.0	26.1	19.8	24.3	30.2
Extremes	6.4		32.5	7.5		36.0	7.0		38.5	15.5		40.2	20.0		39.2	21.0		39.2	21.3		36.0	21.8		35.2	18.0		34.7	13.3		33.7	6.1		33.7	4.6		32.9	4.6		40.2
StdD.		5.6			6.4			6.3			5.4			3.9			3.0			2.7			2.6			2.9			3.3			4.2			5.2			4.3	

แผนภูมิอุณหภูมิกระเปาะแห้ง (dry bulb temperatures)

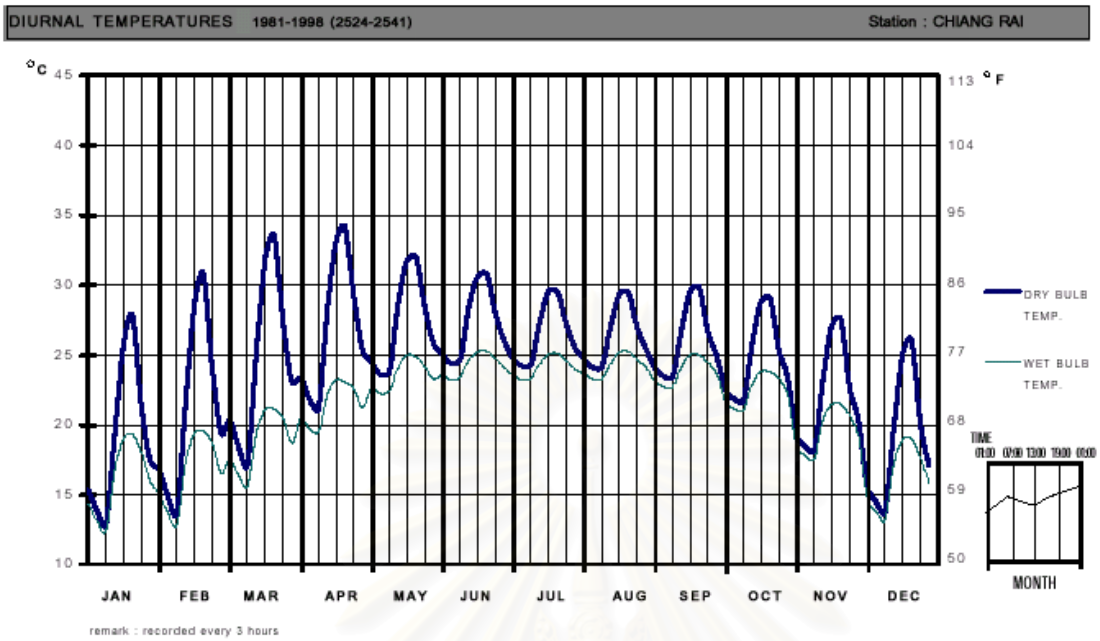


ตารางแสดงผลข้อมูลอุณหภูมิกระเปาะเปียก (wet bulb temperatures)

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

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	12.2	15.8	19.2	13.0	16.6	19.9	14.4	17.8	20.2	18.0	20.7	22.6	20.8	22.6	24.3	23.2	24.2	25.6	23.1	24.2	25.5	23.1	24.1	25.1	23.1	24.2	25.5	22.2	23.3	24.4	19.2	20.8	22.3	15.5	17.7	20.0	19.0	21.0	22.9
2	12.3	16.1	19.3	12.4	16.2	19.1	14.2	17.3	19.6	17.6	20.0	22.0	21.2	22.8	24.2	23.4	24.4	25.5	23.3	24.2	25.3	23.1	24.2	25.3	23.3	24.3	25.2	21.8	23.2	24.6	18.8	20.7	22.3	14.4	17.0	19.2	18.8	20.9	22.6
3	12.9	16.5	19.5	12.0	16.0	19.0	14.0	17.3	20.2	17.3	20.1	22.3	21.4	22.9	24.3	23.2	24.2	25.3	23.2	24.0	25.1	23.2	24.3	25.5	23.2	24.3	25.3	21.9	23.3	24.5	19.0	20.5	22.0	13.8	17.0	19.6	18.7	20.9	22.7
4	13.1	16.5	19.6	11.9	15.9	19.1	14.3	17.6	20.2	17.7	20.6	22.8	21.8	23.1	24.7	22.9	24.1	25.4	23.0	24.0	25.1	23.5	24.3	25.6	23.3	24.2	25.2	22.0	23.2	24.3	18.6	20.5	22.3	13.9	17.0	19.9	18.8	20.9	22.8
5	12.9	16.2	19.3	11.8	15.8	19.0	14.0	17.7	20.4	18.3	20.6	22.6	21.6	22.8	24.3	23.1	24.3	25.5	22.9	24.0	25.2	23.3	24.2	25.3	23.0	24.2	25.5	21.9	23.2	24.4	18.7	20.7	22.4	14.5	17.4	20.0	18.8	20.9	22.8
6	12.9	16.2	19.4	11.6	15.8	19.1	14.7	18.1	20.6	18.2	20.5	22.9	21.4	23.1	24.5	23.0	24.1	25.1	23.2	24.0	24.8	23.3	24.2	25.2	22.9	24.0	25.3	22.0	23.2	24.4	18.5	20.7	22.6	14.8	17.2	19.6	18.9	20.9	22.8
7	12.1	15.9	19.0	11.9	15.9	19.1	14.7	18.2	20.9	18.4	20.7	23.0	21.8	23.2	24.7	22.9	24.1	25.2	23.2	24.0	24.9	23.2	24.2	25.1	23.1	24.2	25.4	22.0	23.3	24.5	18.4	20.5	22.5	13.8	16.6	18.9	18.8	20.9	22.8
8	12.4	15.8	18.9	12.0	16.0	19.0	15.1	18.0	20.2	18.4	20.9	22.8	21.4	23.0	24.9	23.3	24.2	25.2	23.1	24.2	25.3	23.1	24.2	25.1	23.2	24.2	25.3	21.8	23.1	24.4	18.5	20.4	22.3	13.3	16.1	18.5	18.8	20.8	22.7
9	11.5	15.4	18.7	12.4	16.1	19.0	14.8	18.1	20.8	18.6	20.9	22.6	21.6	23.0	24.5	23.0	24.2	25.4	23.4	24.2	25.1	23.4	24.3	25.3	22.9	24.1	25.2	22.1	23.3	24.6	18.3	19.7	21.5	12.8	16.0	19.0	18.7	20.8	22.6
10	11.2	15.3	18.8	11.7	16.0	19.3	15.2	18.5	21.1	19.0	21.1	22.8	22.0	23.3	24.8	23.1	24.3	25.4	23.3	24.2	25.3	23.2	24.3	25.2	23.1	24.1	25.3	21.9	23.3	24.7	17.2	19.3	21.1	12.9	16.1	19.0	18.6	20.8	22.7
11	11.3	15.6	19.4	12.0	16.2	19.7	15.0	18.5	21.1	19.1	21.3	23.1	21.9	23.5	25.1	23.4	24.4	25.3	23.2	24.2	25.3	23.3	24.2	25.3	23.0	24.0	25.2	22.0	23.2	24.3	17.5	19.5	21.4	13.3	16.4	19.1	18.7	20.9	22.9
12	11.7	15.8	19.2	12.5	16.3	19.3	14.8	18.3	20.9	19.1	21.5	23.5	22.3	23.7	25.1	23.3	24.3	25.2	23.2	24.2	25.2	23.2	24.1	25.0	22.8	24.1	25.4	22.0	23.2	24.3	17.4	19.5	21.4	13.9	16.9	19.9	18.8	21.0	22.8
13	12.2	16.3	20.0	12.0	16.1	19.4	14.9	18.3	21.0	19.7	21.5	23.0	22.3	23.6	25.4	23.2	24.3	25.2	23.5	24.3	25.1	23.2	24.2	25.2	22.7	24.0	25.3	21.7	23.1	24.5	17.4	19.6	21.6	13.9	16.9	19.8	18.9	21.0	23.0
14	12.7	16.4	19.4	12.1	16.3	19.4	15.0	18.5	21.2	19.7	21.4	23.5	22.0	23.5	25.3	23.4	24.5	25.4	23.5	24.3	25.3	23.3	24.2	25.2	22.8	24.2	25.5	21.6	22.9	24.0	17.8	19.8	21.8	14.1	16.9	19.6	19.0	21.1	23.0
15	12.4	16.2	19.4	12.2	16.2	19.4	15.9	18.9	21.3	19.6	21.7	23.6	22.3	23.7	25.3	23.4	24.5	25.5	23.1	24.1	25.1	23.4	24.3	25.7	22.8	23.8	24.9	21.1	22.7	24.0	17.3	19.5	21.5	13.6	16.7	19.3	18.9	21.0	22.9
16	12.8	16.5	19.7	12.2	16.4	19.4	15.7	18.9	21.3	19.8	21.7	23.4	22.3	23.7	25.4	23.5	24.5	25.7	23.2	24.1	25.3	23.3	24.2	25.3	22.8	24.0	25.3	21.2	22.8	24.2	17.2	19.5	21.6	13.6	16.7	19.5	19.0	21.1	23.0
17	12.7	16.4	19.7	12.5	16.5	19.6	15.9	19.0	21.5	19.9	21.7	23.4	22.5	23.7	25.3	23.3	24.3	25.5	23.1	24.2	25.5	23.4	24.4	25.7	22.8	24.0	25.1	21.2	22.7	24.2	17.5	19.8	21.9	13.8	16.7	19.3	19.0	21.1	23.1
18	12.4	15.9	19.1	12.7	16.5	19.6	15.4	18.9	21.4	20.1	21.7	23.0	22.1	23.6	24.9	23.1	24.2	25.4	23.2	24.3	25.4	23.3	24.3	25.2	22.9	23.9	25.0	20.8	22.4	23.9	18.2	20.1	22.0	13.1	16.3	19.2	18.9	21.0	22.8
19	11.6	15.7	19.3	13.0	16.9	20.1	16.1	19.1	21.6	20.0	21.8	23.7	22.5	23.8	25.3	23.2	24.3	25.3	23.2	24.2	25.3	23.3	24.2	25.4	22.7	23.8	25.0	21.1	22.6	24.1	18.1	20.1	21.9	12.9	16.3	19.1	19.0	21.1	23.0
20	12.2	16.1	19.4	13.3	17.0	19.8	15.9	19.2	21.5	20.3	22.1	23.6	22.5	23.9	25.2	23.4	24.4	25.6	23.3	24.4	25.5	23.1	24.2	25.6	22.7	23.9	25.0	21.1	22.5	23.9	17.8	20.0	21.9	12.9	16.2	19.0	19.0	21.1	23.0
21	12.1	16.2	19.7	13.5	17.2	20.0	16.7	19.4	21.5	20.1	22.0	23.9	22.6	23.9	25.2	23.5	24.6	25.6	23.4	24.2	25.1	23.2	24.3	25.5	22.5	23.5	24.6	20.5	22.1	23.5	17.7	19.9	21.7	12.9	16.1	18.7	19.0	21.1	22.9
22	12.0	16.1	19.3	13.9	17.4	20.0	16.3	19.5	21.9	20.2	21.9	23.4	23.0	24.0	25.2	23.7	24.5	25.4	23.1	24.2	25.3	23.2	24.3	25.4	22.0	23.5	24.8	20.6	22.1	23.3	17.6	19.6	21.4	13.0	16.1	18.8	19.0	21.1	22.9
23	11.7	15.7	18.7	14.1	17.5	20.1	16.6	19.6	22.1	20.5	22.1	23.7	22.7	24.1	25.4	23.3	24.2	25.1	23.2	24.1	25.1	23.4	24.4	25.6	22.4	23.5	24.8	20.6	22.1	23.4	17.3	19.4	21.4	12.8	16.0	18.7	19.1	21.1	22.8
24	11.3	15.5	18.9	13.7	17.4	20.1	16.2	19.2	21.4	20.5	22.3	23.9	22.7	24.0	25.4	23.1	24.2	25.3	23.2	24.1	25.1	23.1	24.1	25.2	22.0	23.4	24.7	20.4	22.0	23.5	17.2	19.1	20.8	12.0	15.3	18.3	18.8	20.9	22.7
25	11.8	15.9	19.4	13.8	17.5	20.2	16.0	19.1	21.4	20.5	22.4	24.1	22.8	24.0	25.3	23.3	24.3	25.4	23.4	24.1	25.0	23.3	24.2	25.5	22.2	23.4	24.7	19.8	21.5	23.0	16.2	18.6	20.7	11.3	15.1	18.2	18.7	20.8	22.7
26	12.6	16.5	19.7	14.3	17.8	20.4	16.7	19.5	21.9	20.8	22.4	23.9	23.0	24.3	25.8	23.4	24.3	25.2	23.3	24.3	25.4	23.4	24.2	25.4	21.9	23.5	24.9	20.1	21.8	23.4	16.0	18.4	20.6	11.7	15.2	18.4	18.9	21.0	22.9
27	13.4	16.8	19.4	14.4	17.7	20.3	16.8	19.6	21.8	20.9	22.3	24.0	23.0	24.2	25.5	23.3	24.2	25.2	23.2	24.2	25.2	23.3	24.2	25.0	22.4	23.5	24.8	19.8	21.3	22.8	15.8	18.3	20.6	12.1	15.4	18.5	19.0	21.0	22.8
28	13.4	16.9	19.9	14.2	17.7	20.3	17.4	19.9	22.1	20.6	22.2	23.8	22.9	24.1	25.5	23.4	24.3	25.3	23.2	24.2	25.1	23.3	24.4	25.6	22.1	23.5	24.9	19.5	21.2	22.8	16.4	18.6	20.9	12.4	15.6	18.6	19.1	21.0	22.9
29	13.7	16.9	19.8	14.8	18.0	20.8	17.5	20.3	22.6	20.8	22.4	24.2	22.8	24.1	25.2	23.1	24.2	25.4	23.3	24.3	25.2	23.3	24.5	25.6	22.1	23.5	24.7	19.3	21.2	23.0	16.2	18.4	20.4	12.2	15.6	18.8	19.1	21.1	23.0
30	13.2	16.8	19.9				17.6	20.4	22.4	21.1	22.4	23.8	23.1	24.2	25.5	23.1	24.2	25.2	23.4	24.1	24.9	23.5	24.3	25.5	22.2	23.5	25.0	19.3	21.1	22.6	15.6	18.2	20.6	12.4	15.6	18.8	19.5	21.3	23.1
31	12.7	16.6	19.7				17.8	20.5	22.5				23.2	24.3	25.5				23.2	24.0	24.8	23.1	24.0	25.1				19.3	21.0	22.5				12.0	15.4	18.8	18.8	20.8	22.7
Average	12.4	16.1	19.4	12.8	16.6	19.6	15.7	18.8	21.2	19.5	21.5	23.3	22.2	23.6	25.1	23.2	24.3	25.4	23.2	24.2	25.2	23.3	24.2	25.3	22.7	23.9	25.1	21.1	22.5	23.9	17.6	19.6	21.6	13.2	16.3	19.1	18.9	21.0	22.8
Extremes	6.0		24.5	7.0		25.0	6.5		25.3	13.7		27.7	17.2		28.0	20.0		27.6	20.8		27.7	21.0		28.0	17.5		27.7	12.8		26.9	5.8		26.3	4.0		25.0	4.0		28.0
StdD.		3.2			3.1			2.8			2.1			1.6			1.1			1.1			1.1			1.4			2.0			2.7			3.4			2.1	

แผนภูมิความแตกต่างระหว่างอุณหภูมิกระเปาะแห้งและอุณหภูมิกระเปาะเปียก (diurnal temperatures)



ตารางแสดงผลข้อมูลอุณหภูมิจุดน้ำค้าง (dew point temperatures)

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

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	11.8	13.9	15.7	12.4	14.0	15.2	11.4	14.0	15.2	14.6	17.1	18.1	19.5	20.2	20.7	22.6	22.9	23.3	22.3	22.7	22.9	22.7	23.2	24.0	22.8	23.3	23.8	21.8	22.2	22.7	18.7	19.4	20.6	15.0	16.0	17.2	18.0	19.1	20.0
2	11.9	14.3	16.4	11.8	13.4	15.2	10.7	13.5	14.7	12.7	15.9	16.9	18.8	20.3	20.8	22.8	23.1	23.5	22.6	22.9	23.3	22.8	23.2	23.8	22.9	23.4	23.9	21.4	22.1	23.0	18.4	19.3	20.8	14.0	15.2	16.8	17.6	18.9	19.9
3	12.6	14.6	16.5	11.4	13.1	14.6	12.5	13.7	15.3	14.7	16.4	18.0	19.5	20.5	21.2	22.4	22.8	23.0	22.5	22.8	23.0	22.7	23.2	23.7	22.8	23.3	23.9	21.6	22.1	23.2	18.6	19.3	20.2	13.4	15.2	16.9	17.9	18.9	20.0
4	12.8	14.6	15.8	11.4	12.9	14.4	12.3	14.0	15.8	15.3	17.0	18.7	20.2	21.0	21.4	22.3	22.7	22.9	22.4	22.7	22.9	23.0	23.3	23.7	22.9	23.2	23.6	21.7	22.2	23.1	18.2	19.2	20.4	13.6	15.3	17.0	18.0	19.0	20.0
5	12.5	14.3	16.0	11.2	12.8	14.5	12.1	13.9	15.2	14.2	16.9	17.9	19.8	20.8	21.1	22.6	23.0	23.4	22.4	22.8	23.3	22.9	23.2	23.7	22.7	23.3	23.7	21.5	22.1	23.0	18.4	19.4	20.7	14.1	15.6	17.0	17.9	19.0	19.9
6	12.4	14.3	16.0	10.9	12.7	14.5	12.1	14.5	16.2	16.0	17.1	17.6	20.2	21.1	21.9	22.5	22.8	23.1	22.7	22.9	23.2	22.8	23.2	23.7	22.5	23.0	23.4	21.6	22.2	23.1	18.2	19.3	20.6	14.3	15.5	17.0	18.0	19.1	20.0
7	11.7	13.9	15.9	11.4	12.8	14.5	13.0	14.5	15.6	16.8	17.6	17.9	20.1	20.9	21.2	22.4	22.9	23.4	22.7	23.0	23.5	22.8	23.2	23.8	22.8	23.2	23.7	21.7	22.2	23.0	18.1	19.1	20.5	13.3	14.7	16.0	18.1	19.0	19.9
8	12.0	13.8	15.2	11.1	12.8	14.5	11.4	14.1	15.1	16.0	17.6	18.9	20.4	20.9	21.6	22.8	23.1	23.3	22.8	23.1	23.7	22.7	23.1	23.7	22.8	23.2	23.5	21.6	22.2	23.2	18.0	19.1	20.1	12.9	14.2	15.8	17.9	18.9	19.9
9	11.1	13.2	14.9	10.9	13.0	14.7	12.7	14.5	16.1	14.4	17.1	18.1	20.2	21.0	21.4	22.5	22.9	23.4	23.0	23.2	23.5	23.0	23.2	23.8	22.5	23.1	23.8	21.8	22.3	23.1	17.9	18.4	19.2	12.3	14.1	15.7	17.7	18.9	19.8
10	10.7	13.1	15.2	11.1	12.8	14.9	13.2	15.0	16.3	15.1	17.4	18.3	20.9	21.4	21.6	22.6	23.1	23.7	22.8	23.2	23.5	22.9	23.3	23.8	22.8	23.2	23.7	21.5	22.2	23.1	16.6	17.7	19.1	12.3	14.2	16.0	17.7	18.9	19.9
11	10.9	13.6	15.8	11.4	13.2	15.6	11.9	14.7	16.0	14.7	17.6	18.6	21.1	21.8	22.3	23.0	23.2	23.6	22.8	23.1	23.5	22.8	23.2	23.6	22.7	23.0	23.4	21.7	22.1	22.9	17.1	17.9	19.4	12.9	14.6	16.1	17.7	19.0	20.1
12	11.2	13.6	16.0	10.9	13.1	14.9	12.2	14.4	15.6	16.2	18.0	19.0	21.4	21.8	22.3	22.7	23.1	23.7	22.7	23.0	23.5	22.8	23.1	23.5	22.4	22.9	23.5	21.6	22.0	23.0	17.1	18.0	19.0	13.5	15.1	16.8	17.9	19.0	20.1
13	11.8	14.3	16.2	10.9	12.8	14.3	12.3	14.4	15.6	16.2	18.1	18.8	20.9	21.8	22.1	22.6	22.9	23.4	22.8	23.1	23.5	22.7	23.1	23.5	22.3	22.9	23.4	21.4	22.0	23.0	17.0	18.2	19.7	13.5	15.2	16.9	17.9	19.1	20.0
14	12.3	14.2	15.6	10.2	12.8	14.5	11.0	14.5	16.2	16.1	18.1	19.1	21.3	21.8	22.4	22.8	23.2	23.6	22.8	23.2	23.5	22.9	23.3	23.7	22.5	23.1	24.2	21.3	21.8	22.5	17.4	18.5	19.6	13.6	15.1	16.4	17.9	19.1	20.1
15	11.9	14.0	15.9	10.0	12.6	14.0	13.1	15.1	16.4	17.8	18.7	19.3	21.6	22.0	22.4	22.8	23.1	23.6	22.6	23.2	23.6	23.0	23.4	23.8	22.4	22.9	23.4	20.9	21.6	22.3	16.9	18.1	19.5	13.0	14.9	16.6	18.0	19.1	20.1
16	12.5	14.5	16.2	10.2	12.5	14.1	12.6	15.0	16.0	16.8	18.5	19.0	21.7	22.0	22.2	22.6	23.0	23.3	22.8	23.1	23.3	22.9	23.3	23.7	22.5	23.0	23.5	20.9	21.7	22.7	16.9	18.1	19.4	13.0	14.9	16.3	18.0	19.1	20.0
17	12.3	14.3	15.5	10.6	12.8	14.9	12.2	15.1	16.8	16.5	18.6	19.6	21.3	22.0	22.4	22.6	22.8	23.5	22.6	23.1	23.6	23.0	23.4	23.8	22.5	23.0	23.7	20.9	21.7	22.4	17.1	18.4	19.9	13.2	14.9	16.0	17.9	19.2	20.2
18	12.0	13.6	15.1	11.0	13.0	14.4	12.8	15.0	16.7	16.4	18.5	19.1	21.4	21.8	22.4	22.5	22.8	23.0	22.8	23.2	23.8	23.0	23.4	23.9	22.6	22.8	23.5	20.5	21.4	22.3	17.8	18.8	20.0	12.6	14.6	16.3	17.9	19.1	20.0
19	11.1	13.4	15.7	11.9	13.5	15.4	13.2	15.1	16.5	16.2	18.7	19.6	21.9	22.2	22.7	22.6	22.9	23.5	22.7	23.0	23.4	22.9	23.3	23.7	22.3	22.8	23.4	20.8	21.5	22.5	17.7	18.7	19.8	12.4	14.4	16.0	18.0	19.1	20.2
20	11.8	13.8	16.0	11.3	13.5	15.0	13.1	15.1	16.5	17.2	19.0	19.8	21.6	22.2	22.7	22.8	23.0	23.3	22.8	23.2	23.8	22.7	23.3	23.9	22.3	22.9	23.6	20.8	21.4	22.0	17.4	18.6	20.0	12.5	14.2	15.8	18.0	19.2	20.2
21	11.6	14.0	16.6	12.8	14.1	15.9	12.4	15.1	16.5	18.4	19.3	19.8	22.0	22.3	22.9	22.8	23.1	23.5	22.9	23.1	23.4	22.7	23.2	23.9	22.1	22.5	23.0	20.0	20.8	22.2	17.4	18.4	19.8	12.4	14.2	15.7	18.1	19.2	20.3
22	11.6	13.8	15.6	12.2	14.1	15.6	14.0	15.4	16.3	17.1	19.2	20.4	21.5	22.3	22.9	22.8	23.1	23.4	22.6	23.2	23.6	22.8	23.2	23.7	21.6	22.3	23.3	20.2	20.8	22.1	17.3	18.2	19.3	12.6	14.2	15.8	18.0	19.1	20.2
23	11.2	13.0	14.7	12.3	14.2	15.9	13.5	15.7	16.7	17.9	19.4	20.0	22.0	22.3	22.8	22.5	22.8	23.1	22.7	23.1	23.5	23.1	23.5	24.0	22.0	22.5	23.4	20.2	20.9	22.0	16.9	18.0	19.3	12.3	14.0	15.3	18.1	19.1	20.1
24	10.8	13.0	15.1	12.3	14.0	15.4	12.8	15.3	16.7	18.3	19.5	20.4	22.1	22.5	22.9	22.5	22.7	23.0	22.8	23.2	23.5	22.7	23.2	23.5	21.7	22.3	23.2	20.0	20.7	21.8	16.7	17.6	19.0	11.5	13.4	14.8	17.9	19.0	19.9
25	11.3	13.6	15.8	12.4	14.2	15.9	13.1	15.1	16.8	18.4	19.8	20.5	22.2	22.6	23.3	22.5	22.8	23.4	22.9	23.3	23.8	22.9	23.4	23.7	21.9	22.4	23.4	19.4	20.2	21.7	15.9	17.0	18.5	10.8	13.0	14.9	17.8	19.0	20.1
26	12.1	14.4	16.5	11.9	14.3	15.5	13.8	15.7	16.6	19.0	20.1	21.1	22.5	22.8	23.4	22.5	22.9	23.4	22.9	23.3	24.0	23.1	23.4	23.7	21.6	22.4	23.4	19.7	20.5	21.7	15.6	16.9	18.4	11.3	13.2	14.7	18.0	19.2	20.2
27	12.9	14.6	15.9	10.8	13.9	15.4	14.5	16.1	17.2	18.7	20.0	20.8	22.4	22.7	22.9	22.6	22.9	23.2	22.7	23.2	23.8	23.0	23.3	23.7	22.1	22.5	22.8	19.4	19.9	21.0	15.4	16.8	18.4	11.5	13.4	15.3	18.0	19.1	20.0
28	12.8	14.8	16.7	11.6	14.1	16.2	15.2	16.3	17.2	18.9	19.8	20.7	22.4	22.9	23.2	22.8	23.0	23.4	22.8	23.2	23.8	22.9	23.4	24.0	21.8	22.4	23.1	19.1	19.9	21.3	16.0	17.1	18.5	11.9	13.7	15.3	18.2	19.2	20.3
29	13.2	14.7	16.2	13.3	14.8	16.0	14.6	16.7	17.4	19.7	20.2	20.8	22.4	22.9	23.4	22.6	22.9	23.3	22.8	23.3	23.8	22.9	23.4	24.1	21.8	22.4	23.4	18.9	19.9	21.3	15.8	16.8	18.2	11.8	13.8	15.2	18.3	19.3	20.2
30	12.8	14.6	16.2				15.1	16.8	17.9	18.5	19.8	20.3	22.6	23.0	23.2	22.5	22.8	23.2	22.9	23.2	23.4	23.1	23.4	24.0	21.9	22.5	23.1	19.0	19.7	20.9	15.2	16.6	17.7	12.0	13.7	15.2	18.7	19.6	20.5
31	12.3	14.1	15.7				15.7	17.1	18.5				22.6	23.0	23.2				22.9	23.1	23.4	22.7	23.1	23.4				18.9	19.6	20.8				11.5	13.5	14.9	18.1	19.1	20.0
Average	11.9	14.0	15.8	11.4	13.4	15.0	12.9	15.0	16.3	16.6	18.4	19.2	21.3	21.8	22.3	22.6	22.9	23.3	22.7	23.1	23.5	22.9	23.3	23.7	22.3	22.9	23.5	20.7	21.3	22.4	17.2	18.2	19.5	12.7	14.5	16.0	17.9	19.1	20.1
Extremes	2.9		22.3	-1.2		24.0	0.2		22.9	0.6		26.8	10.0		29.3	15.6		26.2	18.1		26.3	20.2		27.3	13.7		26.4	6.6		25.9	3.5		24.5	2.7		22.3	-1.2		29.3
StdD.	2.7			2.9			3.0			2.8			1.7			1.0			0.9			0.8			1.2			2.0			2.7			3.2			2.1		

ตารางแสดงผลข้อมูลประมาณองศาวัน การทำความร้อนและการทำความเย็น (heating and cooling degree days)

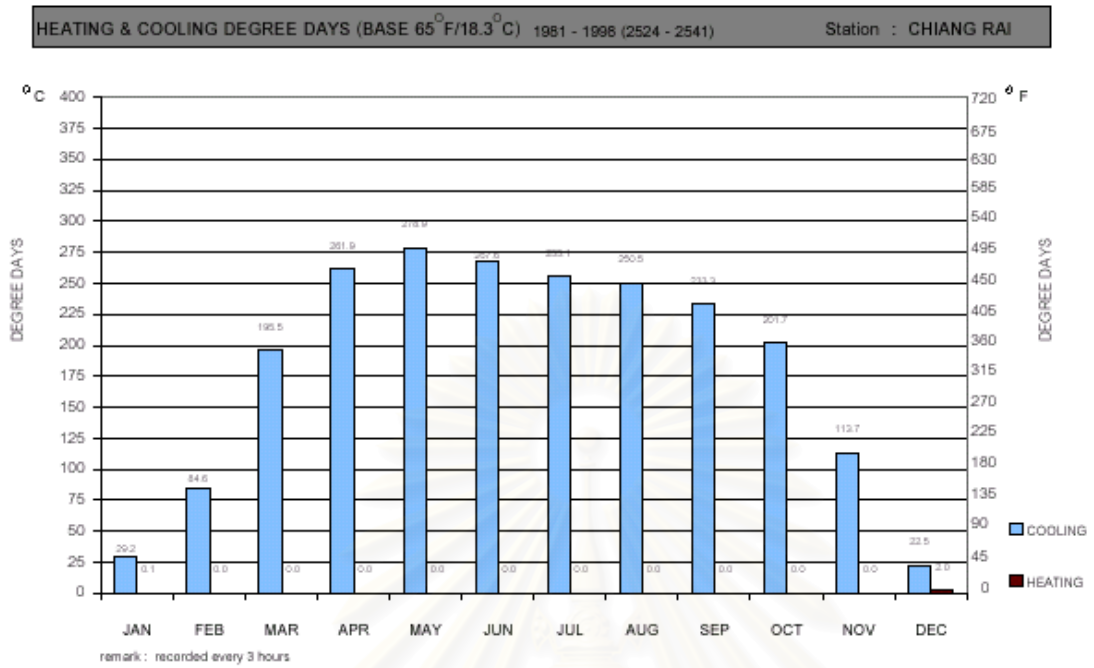
HEATING & COOLING DEGREE DAYS BASE RANGE 35 - 100 °F (1.7 - 37.8 °C) 1981 - 1998 (2524 - 2541) Station : CHIANG RAI

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	545.7	0.0	567.9	0.0	712.1	0.0	761.9	0.0	795.5	0.0	767.6	0.0	771.7	0.0	767.2	0.0	733.3	0.0	718.4	0.0	613.7	0.0	537.2	0.0	8,292.4	0.0
36	2.2	528.5	0.0	551.8	0.0	694.9	0.0	745.3	0.0	778.3	0.0	750.9	0.0	754.5	0.0	750.0	0.0	716.7	0.0	701.2	0.0	597.0	0.0	520.0	0.0	8,089.1	0.0
37	2.8	511.3	0.0	535.7	0.0	677.7	0.0	728.6	0.0	761.1	0.0	734.3	0.0	737.3	0.0	732.8	0.0	700.0	0.0	684.0	0.0	580.4	0.0	502.8	0.0	7,885.7	0.0
38	3.3	494.0	0.0	519.6	0.0	660.5	0.0	711.9	0.0	743.9	0.0	717.6	0.0	720.1	0.0	715.5	0.0	683.3	0.0	666.7	0.0	563.7	0.0	485.5	0.0	7,682.4	0.0
39	3.9	476.8	0.0	503.4	0.0	643.2	0.0	695.3	0.0	726.7	0.0	700.9	0.0	702.8	0.0	698.3	0.0	666.7	0.0	649.5	0.0	547.0	0.0	468.3	0.0	7,479.1	0.0
40	4.4	459.6	0.0	487.3	0.0	626.0	0.0	678.6	0.0	709.4	0.0	684.3	0.0	685.6	0.0	681.1	0.0	650.0	0.0	632.3	0.0	530.4	0.0	451.1	0.0	7,275.7	0.0
41	5.0	442.4	0.0	471.2	0.0	608.8	0.0	661.9	0.0	692.2	0.0	667.6	0.0	668.4	0.0	663.9	0.0	633.3	0.0	615.1	0.0	513.7	0.0	433.9	0.0	7,072.4	0.0
42	5.6	425.2	0.0	455.1	0.0	591.6	0.0	645.3	0.0	675.0	0.0	650.9	0.0	651.2	0.0	646.7	0.0	616.7	0.0	597.9	0.0	497.0	0.0	416.6	0.0	6,869.1	0.0
43	6.1	407.9	0.0	439.0	0.0	574.3	0.0	628.6	0.0	657.8	0.0	634.3	0.0	633.9	0.0	629.4	0.0	600.0	0.0	580.6	0.0	480.4	0.0	399.4	0.0	6,665.7	0.0
44	6.7	390.7	0.0	422.9	0.0	557.1	0.0	611.9	0.0	640.5	0.0	617.6	0.0	616.7	0.0	612.2	0.0	583.3	0.0	563.4	0.0	463.7	0.0	382.2	0.0	6,462.4	0.0
45	7.2	373.5	0.0	406.8	0.0	539.9	0.0	595.3	0.0	623.3	0.0	600.9	0.0	599.5	0.0	595.0	0.0	566.7	0.0	546.2	0.0	447.0	0.0	365.0	0.0	6,259.1	0.0
46	7.8	356.3	0.0	390.7	0.0	522.7	0.0	578.6	0.0	606.1	0.0	584.3	0.0	582.3	0.0	577.8	0.0	550.0	0.0	529.0	0.0	430.4	0.0	347.8	0.0	6,055.7	0.0
47	8.3	339.0	0.0	374.6	0.0	505.5	0.0	561.9	0.0	588.9	0.0	567.6	0.0	565.1	0.0	560.5	0.0	533.3	0.0	511.7	0.0	413.7	0.0	330.5	0.0	5,852.4	0.0
48	8.9	321.8	0.0	358.4	0.0	488.2	0.0	545.3	0.0	571.7	0.0	550.9	0.0	547.8	0.0	543.3	0.0	516.7	0.0	494.5	0.0	397.0	0.0	313.3	0.0	5,649.1	0.0
49	9.4	304.6	0.0	342.3	0.0	471.0	0.0	528.6	0.0	554.4	0.0	534.3	0.0	530.6	0.0	526.1	0.0	500.0	0.0	477.3	0.0	380.4	0.0	296.1	0.0	5,445.7	0.0
50	10.0	287.4	0.0	326.2	0.0	453.8	0.0	511.9	0.0	537.2	0.0	517.6	0.0	513.4	0.0	508.9	0.0	483.3	0.0	460.1	0.0	363.7	0.0	278.9	0.0	5,242.4	0.0
51	10.6	270.2	0.0	310.1	0.0	436.6	0.0	495.3	0.0	520.0	0.0	500.9	0.0	496.2	0.0	491.7	0.0	466.7	0.0	442.9	0.0	347.0	0.0	261.6	0.0	5,039.1	0.0
52	11.1	252.9	0.0	294.0	0.0	419.3	0.0	478.6	0.0	502.8	0.0	484.3	0.0	478.9	0.0	474.4	0.0	450.0	0.0	425.6	0.0	330.4	0.0	244.4	0.0	4,835.7	0.0
53	11.7	235.7	0.0	277.9	0.0	402.1	0.0	461.9	0.0	485.5	0.0	467.6	0.0	461.7	0.0	457.2	0.0	433.3	0.0	408.4	0.0	313.7	0.0	227.2	0.0	4,632.4	0.0
54	12.2	218.5	0.0	261.8	0.0	384.9	0.0	445.3	0.0	468.3	0.0	450.9	0.0	444.5	0.0	440.0	0.0	416.7	0.0	391.2	0.0	297.0	0.0	210.0	0.0	4,429.1	0.0
55	12.8	201.3	0.0	245.7	0.0	367.7	0.0	428.6	0.0	451.1	0.0	434.3	0.0	427.3	0.0	422.8	0.0	400.0	0.0	374.0	0.0	280.4	0.0	192.8	0.0	4,225.7	0.0
56	13.3	184.0	0.0	229.6	0.0	350.5	0.0	411.9	0.0	433.9	0.0	417.6	0.0	410.1	0.0	405.5	0.0	383.3	0.0	356.7	0.0	263.7	0.0	175.5	0.0	4,022.4	0.0
57	13.9	166.8	0.0	213.4	0.0	333.2	0.0	395.3	0.0	416.7	0.0	400.9	0.0	392.8	0.0	388.3	0.0	366.7	0.0	339.5	0.0	247.0	0.0	158.3	0.0	3,819.1	0.0
58	14.4	149.6	0.0	197.3	0.0	316.0	0.0	378.6	0.0	399.4	0.0	384.3	0.0	375.6	0.0	371.1	0.0	350.0	0.0	322.3	0.0	230.4	0.0	141.1	0.0	3,615.7	0.0
59	15.0	132.4	0.0	181.2	0.0	298.8	0.0	361.9	0.0	382.2	0.0	367.6	0.0	358.4	0.0	353.9	0.0	333.3	0.0	305.1	0.0	213.7	0.0	123.9	0.0	3,412.4	0.0
60	15.6	115.2	0.0	165.1	0.0	281.6	0.0	345.3	0.0	365.0	0.0	350.9	0.0	341.2	0.0	336.7	0.0	316.7	0.0	287.9	0.0	197.0	0.0	106.6	0.0	3,209.1	0.0
61	16.1	97.9	0.0	149.0	0.0	264.3	0.0	328.6	0.0	347.8	0.0	334.3	0.0	323.9	0.0	319.4	0.0	300.0	0.0	270.6	0.0	180.4	0.0	89.4	0.0	3,005.7	0.0
62	16.7	80.7	0.0	132.9	0.0	247.1	0.0	311.9	0.0	330.5	0.0	317.6	0.0	306.7	0.0	302.2	0.0	283.3	0.0	253.4	0.0	163.7	0.0	72.2	0.0	2,802.4	0.0
63	17.2	63.5	0.0	116.8	0.0	229.9	0.0	295.3	0.0	313.3	0.0	300.9	0.0	289.5	0.0	285.0	0.0	266.7	0.0	236.2	0.0	147.0	0.0	55.0	0.0	2,599.1	0.0
64	17.8	46.3	0.0	100.7	0.0	212.7	0.0	278.6	0.0	296.1	0.0	284.3	0.0	272.3	0.0	267.8	0.0	250.0	0.0	219.0	0.0	130.4	0.0	37.8	0.0	2,395.7	0.0
65	18.3	29.2	-0.1	84.6	0.0	195.5	0.0	261.9	0.0	278.9	0.0	267.6	0.0	255.1	0.0	250.5	0.0	233.3	0.0	201.7	0.0	113.7	0.0	22.5	-2.0	2,194.5	-2.1
66	18.9	13.8	-1.9	68.4	0.0	178.2	0.0	245.3	0.0	261.7	0.0	250.9	0.0	237.8	0.0	233.3	0.0	216.7	0.0	184.5	0.0	97.0	0.0	10.3	-7.0	1,998.0	-8.9
67	19.4	4.2	-9.6	52.3	0.0	161.0	0.0	228.6	0.0	244.4	0.0	234.3	0.0	220.6	0.0	216.1	0.0	200.0	0.0	167.3	0.0	80.4	0.0	2.8	-16.8	1,812.1	-26.3
68	20.0	0.8	-23.4	36.3	-0.1	143.8	0.0	211.9	0.0	227.2	0.0	217.6	0.0	203.4	0.0	198.9	0.0	183.3	0.0	150.1	0.0	63.7	0.0	0.3	-31.4	1,637.3	-54.9

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

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	0.0	-39.8	24.6	-4.5	126.6	0.0	195.3	0.0	210.0	0.0	200.9	0.0	186.2	0.0	181.7	0.0	166.7	0.0	132.9	0.0	47.0	0.0	0.0	-48.4	1,471.7	-92.7
70	21.1	0.0	-57.1	15.5	-11.5	109.3	0.0	178.6	0.0	192.8	0.0	184.3	0.0	168.9	0.0	164.4	0.0	150.0	0.0	115.6	0.0	31.6	-1.2	0.0	-65.6	1,311.2	-135.4
71	21.7	0.0	-74.3	8.2	-20.3	92.1	0.0	161.9	0.0	175.5	0.0	167.6	0.0	151.7	0.0	147.2	0.0	133.3	0.0	98.4	0.0	18.1	-4.4	0.0	-82.8	1,154.2	-181.8
72	22.2	0.0	-91.5	3.5	-31.7	74.9	0.0	145.3	0.0	158.3	0.0	150.9	0.0	134.5	0.0	130.0	0.0	116.7	0.0	81.2	0.0	7.9	-10.9	0.0	-100.0	1,003.2	-234.1
73	22.8	0.0	-108.7	0.8	-45.1	58.0	-0.4	128.6	0.0	141.1	0.0	134.3	0.0	117.3	0.0	112.8	0.0	100.0	0.0	64.0	0.0	2.4	-22.0	0.0	-117.2	859.2	-293.5
74	23.3	0.0	-126.0	0.0	-60.4	42.9	-2.5	111.9	0.0	123.9	0.0	117.6	0.0	100.1	0.0	95.5	0.0	83.3	0.0	46.7	0.0	0.0	-36.3	0.0	-134.5	722.0	-359.6
75	23.9	0.0	-143.2	0.0	-76.6	29.6	-6.4	95.3	0.0	106.7	0.0	100.9	0.0	82.8	0.0	78.3	0.0	66.7	0.0	30.3	-0.8	0.0	-53.0	0.0	-151.7	590.6	-431.5
76	24.4	0.0	-160.4	0.0	-92.7	18.7	-12.7	78.6	0.0	89.4	0.0	84.3	0.0	65.6	0.0	61.1	0.0	50.0	0.0	16.5	-4.2	0.0	-69.6	0.0	-168.9	464.2	-508.4
77	25.0	0.0	-177.6	0.0	-108.8	9.4	-20.6	61.9	0.0	72.2	0.0	67.6	0.0	48.4	0.0	43.9	0.0	33.3	0.0	6.2	-11.1	0.0	-86.3	0.0	-186.1	343.0	-590.5
78	25.6	0.0	-194.8	0.0	-124.9	3.1	-31.5	45.3	0.0	55.0	0.0	50.9	0.0	31.2	0.0	26.7	0.0	16.7	0.0	0.2	-22.3	0.0	-103.0	0.0	-203.4	228.0	-679.9
79	26.1	0.0	-212.1	0.0	-141.0	0.5	-46.1	28.6	0.0	37.8	0.0	34.3	0.0	14.2	-0.2	9.5	-0.1	3.7	-3.7	0.0	-39.4	0.0	-119.6	0.0	-220.6	128.5	-782.8
80	26.7	0.0	-229.3	0.0	-157.1	0.0	-62.9	13.4	-1.5	20.6	0.0	17.7	-0.1	2.8	-6.1	0.2	-8.0	0.0	-16.7	0.0	-56.6	0.0	-136.3	0.0	-237.8	54.7	-912.3
81	27.2	0.0	-246.5	0.0	-173.2	0.0	-80.1	3.8	-8.6	5.3	-2.0	4.2	-3.3	0.1	-20.6	0.0	-25.0	0.0	-33.3	0.0	-73.8	0.0	-153.0	0.0	-255.0	13.5	-1,074.5
82	27.8	0.0	-263.7	0.0	-189.3	0.0	-97.3	0.0	-21.4	0.1	-14.0	0.0	-15.7	0.0	-37.7	0.0	-42.2	0.0	-50.0	0.0	-91.0	0.0	-169.6	0.0	-272.2	0.1	-1,264.4
83	28.3	0.0	-281.0	0.0	-205.4	0.0	-114.6	0.0	-38.1	0.0	-31.1	0.0	-32.4	0.0	-55.0	0.0	-59.5	0.0	-66.7	0.0	-108.3	0.0	-186.3	0.0	-289.5	0.0	-1,467.6
84	28.9	0.0	-298.2	0.0	-221.6	0.0	-131.8	0.0	-54.7	0.0	-48.3	0.0	-49.1	0.0	-72.2	0.0	-76.7	0.0	-83.3	0.0	-125.5	0.0	-203.0	0.0	-306.7	0.0	-1,670.9
85	29.4	0.0	-315.4	0.0	-237.7	0.0	-149.0	0.0	-71.4	0.0	-65.6	0.0	-65.7	0.0	-89.4	0.0	-93.9	0.0	-100.0	0.0	-142.7	0.0	-219.6	0.0	-323.9	0.0	-1,874.3
86	30.0	0.0	-332.6	0.0	-253.8	0.0	-166.2	0.0	-88.1	0.0	-82.8	0.0	-82.4	0.0	-106.6	0.0	-111.1	0.0	-116.7	0.0	-159.9	0.0	-236.3	0.0	-341.1	0.0	-2,077.6
87	30.6	0.0	-349.8	0.0	-269.9	0.0	-183.4	0.0	-104.7	0.0	-100.0	0.0	-99.1	0.0	-123.8	0.0	-128.3	0.0	-133.3	0.0	-177.1	0.0	-253.0	0.0	-358.4	0.0	-2,280.9
88	31.1	0.0	-367.1	0.0	-286.0	0.0	-200.7	0.0	-121.4	0.0	-117.2	0.0	-115.7	0.0	-141.1	0.0	-145.6	0.0	-150.0	0.0	-194.4	0.0	-269.6	0.0	-375.6	0.0	-2,484.3
89	31.7	0.0	-384.3	0.0	-302.1	0.0	-217.9	0.0	-138.1	0.0	-134.5	0.0	-132.4	0.0	-158.3	0.0	-162.8	0.0	-166.7	0.0	-211.6	0.0	-286.3	0.0	-392.8	0.0	-2,687.6
90	32.2	0.0	-401.5	0.0	-318.2	0.0	-235.1	0.0	-154.7	0.0	-151.7	0.0	-149.1	0.0	-175.5	0.0	-180.0	0.0	-183.3	0.0	-228.8	0.0	-303.0	0.0	-410.0	0.0	-2,890.9
91	32.8	0.0	-418.7	0.0	-334.3	0.0	-252.3	0.0	-171.4	0.0	-168.9	0.0	-165.7	0.0	-192.7	0.0	-197.2	0.0	-200.0	0.0	-246.0	0.0	-319.6	0.0	-427.2	0.0	-3,094.3
92	33.3	0.0	-436.0	0.0	-350.4	0.0	-269.6	0.0	-188.1	0.0	-186.1	0.0	-182.4	0.0	-210.0	0.0	-214.5	0.0	-216.7	0.0	-263.3	0.0	-336.3	0.0	-444.5	0.0	-3,297.6
93	33.9	0.0	-453.2	0.0	-366.6	0.0	-286.8	0.0	-204.7	0.0	-203.3	0.0	-199.1	0.0	-227.2	0.0	-231.7	0.0	-233.3	0.0	-280.5	0.0	-353.0	0.0	-461.7	0.0	-3,500.9
94	34.4	0.0	-470.4	0.0	-382.7	0.0	-304.0	0.0	-221.4	0.0	-220.6	0.0	-215.7	0.0	-244.4	0.0	-248.9	0.0	-250.0	0.0	-297.7	0.0	-369.6	0.0	-478.9	0.0	-3,704.3
95	35.0	0.0	-487.6	0.0	-398.8	0.0	-321.2	0.0	-238.1	0.0	-237.8	0.0	-232.4	0.0	-261.6	0.0	-266.1	0.0	-266.7	0.0	-314.9	0.0	-386.3	0.0	-496.1	0.0	-3,907.6
96	35.6	0.0	-504.8	0.0	-414.9	0.0	-338.4	0.0	-254.7	0.0	-255.0	0.0	-249.1	0.0	-278.8	0.0	-283.3	0.0	-283.3	0.0	-332.1	0.0	-403.0	0.0	-513.4	0.0	-4,110.9
97	36.1	0.0	-522.1	0.0	-431.0	0.0	-355.7	0.0	-271.4	0.0	-272.2	0.0	-265.7	0.0	-296.1	0.0	-300.6	0.0	-300.0	0.0	-349.4	0.0	-419.6	0.0	-530.6	0.0	-4,314.3
98	36.7	0.0	-539.3	0.0	-447.1	0.0	-372.9	0.0	-288.1	0.0	-289.5	0.0	-282.4	0.0	-313.3	0.0	-317.8	0.0	-316.7	0.0	-366.6	0.0	-436.3	0.0	-547.8	0.0	-4,517.6
99	37.2	0.0	-556.5	0.0	-463.2	0.0	-390.1	0.0	-304.7	0.0	-306.7	0.0	-299.1	0.0	-330.5	0.0	-335.0	0.0	-333.3	0.0	-383.8	0.0	-453.0	0.0	-565.0	0.0	-4,720.9
100	37.8	0.0	-573.7	0.0	-479.3	0.0	-407.3	0.0	-321.4	0.0	-323.9	0.0	-315.7	0.0	-347.7	0.0	-352.2	0.0	-350.0	0.0	-401.0	0.0	-469.6	0.0	-582.2	0.0	-4,924.3

แผนภูมิปริมาณองศาวัน การทำความร้อนและการทำความเย็น (heating and cooling degree days)

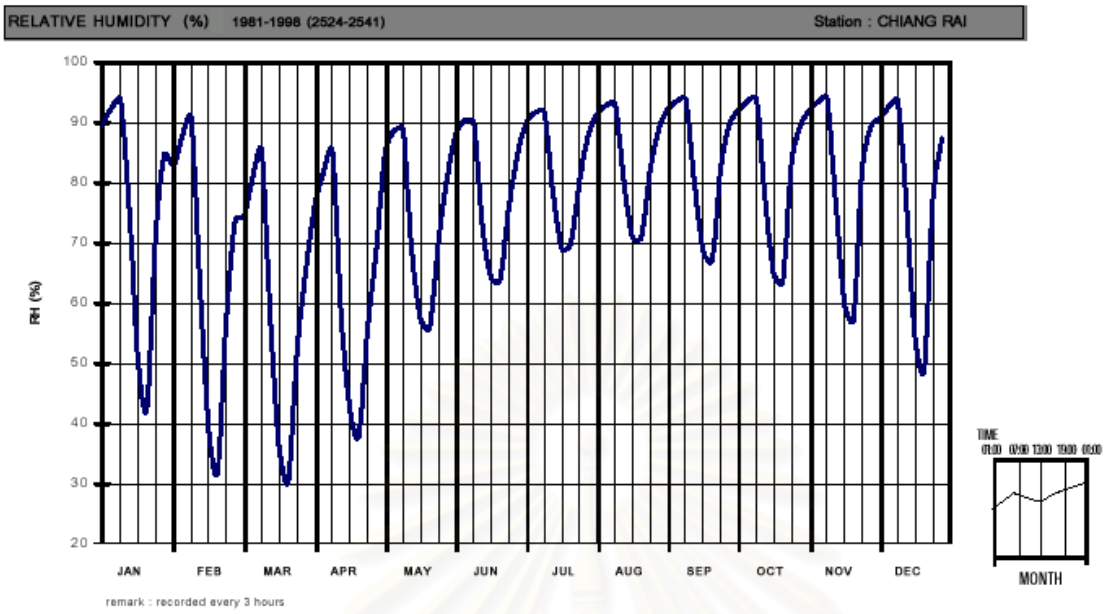


ตารางแสดงผลข้อมูลความชื้นสัมพัทธ์ (relative humidity)

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

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	47.0	77.4	94.7	39.2	70.8	92.6	28.6	62.0	89.2	31.1	60.4	85.7	45.2	67.7	86.4	61.9	79.5	90.9	62.0	77.1	89.1	70.9	84.5	92.7	71.8	84.7	93.8	63.1	82.7	94.3	57.6	80.3	92.9	55.6	78.9	93.2	52.8	75.5	91.3
2	44.8	77.6	94.7	36.8	70.2	91.9	30.4	61.8	87.2	30.6	57.1	81.7	44.2	67.1	87.2	62.9	78.8	91.3	63.7	78.9	89.8	70.1	83.9	93.3	70.2	85.3	94.8	65.2	82.9	94.4	58.0	80.6	94.8	50.6	78.0	93.7	52.3	75.2	91.2
3	45.9	77.8	94.7	33.6	69.0	93.3	32.8	61.7	86.7	33.8	59.4	82.5	49.3	69.3	85.8	61.8	77.7	90.6	65.8	80.2	89.6	69.1	82.3	92.5	69.1	83.6	93.9	63.3	81.9	93.8	62.0	82.0	94.4	48.9	77.9	94.1	53.0	75.2	91.0
4	46.2	77.5	94.6	33.2	68.6	92.6	31.6	62.4	86.6	32.0	60.6	83.2	48.9	70.9	87.4	62.4	78.3	90.8	66.7	80.4	89.6	69.9	82.8	91.6	66.6	83.3	93.2	67.7	83.1	93.8	60.4	81.0	94.1	49.8	78.3	94.6	53.0	75.6	91.0
5	46.2	76.5	94.7	33.8	68.3	91.3	31.2	61.3	87.2	33.0	60.6	85.2	50.4	72.1	88.7	64.8	80.7	92.1	67.2	81.2	91.5	68.6	83.6	93.6	67.4	84.0	93.7	65.5	82.7	93.3	59.8	81.6	94.5	50.4	78.2	93.6	53.2	75.9	91.6
6	45.9	76.4	93.2	32.2	68.0	91.9	30.4	61.6	86.9	35.1	60.9	82.8	51.0	71.9	88.7	66.2	80.0	90.3	69.9	82.6	91.5	70.1	83.2	93.2	68.5	83.7	93.9	68.6	84.0	93.7	55.1	80.5	94.6	52.9	78.5	93.8	53.8	75.9	91.2
7	42.7	76.1	94.7	33.6	68.0	92.5	31.6	61.3	86.4	39.7	63.4	85.7	47.7	69.7	87.3	66.2	80.5	90.3	68.5	82.6	92.4	69.1	83.2	92.7	69.3	84.6	94.0	65.9	83.2	94.8	56.5	80.5	95.6	48.5	77.4	94.1	53.3	75.9	91.7
8	43.4	76.0	94.4	33.6	67.6	91.2	30.1	60.8	85.2	34.8	62.8	86.2	50.3	71.1	87.1	67.4	82.1	92.1	70.6	82.6	93.1	69.8	82.5	92.2	67.8	83.5	93.4	67.2	84.6	95.2	60.5	81.0	92.7	47.7	77.5	93.7	53.6	76.0	91.4
9	40.0	75.4	94.8	32.2	67.4	91.7	30.8	61.7	86.3	30.5	59.4	85.9	52.9	72.7	89.4	64.7	80.4	91.4	69.6	83.1	92.3	66.3	82.2	93.1	69.6	84.1	94.0	68.4	84.3	94.3	62.4	82.5	94.6	49.6	77.5	93.7	53.1	75.9	91.8
10	41.5	75.7	93.8	32.4	67.0	92.0	31.3	62.4	88.0	30.9	58.4	82.1	52.6	72.3	87.9	63.4	80.5	92.1	69.5	83.8	92.8	68.4	83.3	93.3	70.2	84.5	94.2	63.5	83.0	94.9	57.1	79.2	92.4	48.4	77.0	92.7	52.4	75.6	91.4
11	43.7	75.9	94.2	36.2	68.6	91.8	26.4	60.2	88.4	31.9	59.3	83.6	55.2	74.3	88.9	65.7	80.5	91.9	67.9	82.3	92.4	69.9	83.6	92.7	63.7	82.9	94.3	64.7	82.9	94.6	55.5	79.1	93.1	50.9	78.4	93.8	52.6	75.7	91.6
12	42.1	75.3	93.3	30.2	67.7	92.3	29.7	60.1	86.2	34.0	59.6	82.5	54.3	73.2	88.8	65.2	80.3	90.6	64.4	80.3	91.0	70.2	83.5	93.4	63.4	81.5	93.5	64.6	82.4	93.2	56.7	80.5	94.4	51.1	78.3	94.2	52.1	75.2	91.1
13	43.7	76.2	94.7	29.2	66.1	92.2	27.7	60.0	87.6	35.1	60.7	83.6	54.7	74.2	89.3	61.7	78.7	91.5	65.6	80.3	90.5	68.8	82.5	91.8	64.8	82.2	93.9	62.6	82.7	94.8	58.0	80.9	94.9	49.8	78.6	94.5	51.8	75.2	91.6
14	40.7	74.6	93.9	27.2	65.0	91.4	24.4	58.5	85.5	35.3	61.1	84.4	56.6	74.6	89.2	62.1	78.7	91.8	64.5	80.8	91.1	72.1	85.1	93.3	66.5	83.3	94.2	65.2	82.7	93.9	60.7	82.1	94.8	49.1	77.7	93.1	52.0	75.3	91.4
15	41.0	74.3	93.1	26.9	63.6	90.8	28.8	58.9	83.3	41.2	63.8	84.7	57.1	74.5	88.5	61.1	78.1	91.1	71.6	84.0	92.6	70.4	84.3	94.1	70.9	84.9	94.7	65.0	83.1	95.1	57.8	80.7	93.8	51.6	78.4	92.9	53.6	75.7	91.2
16	44.2	76.0	94.7	27.6	62.7	90.1	28.3	59.7	86.1	35.7	62.4	86.2	55.6	74.3	89.9	60.3	77.1	90.6	67.0	82.8	93.1	69.2	84.2	93.9	67.2	83.3	94.6	63.9	82.6	94.8	59.3	81.3	95.0	50.2	77.5	92.3	52.4	75.3	91.8
17	42.5	74.9	94.5	27.6	63.0	88.7	27.1	59.8	86.2	39.1	63.2	84.8	55.4	74.8	89.9	58.9	76.0	88.8	67.3	82.3	92.1	70.3	83.7	93.7	67.4	83.3	94.0	66.3	83.8	94.7	58.6	80.7	94.5	49.3	77.4	92.8	52.5	75.2	91.2
18	41.4	73.9	93.6	28.4	64.5	91.4	28.4	59.5	86.2	38.4	62.5	84.5	55.1	75.1	88.9	60.3	76.9	88.9	67.4	82.0	92.6	72.4	84.5	93.2	67.6	83.4	94.1	65.4	83.5	94.9	59.1	81.1	94.0	50.6	78.0	93.2	52.9	75.4	91.3
19	41.9	74.3	93.3	31.1	64.1	89.1	28.6	57.8	82.6	36.2	62.8	82.9	56.5	75.7	90.4	62.2	77.6	89.9	65.1	80.8	91.9	69.5	84.3	93.6	66.3	83.3	93.4	61.9	82.3	94.4	58.7	81.0	93.6	48.5	77.4	93.2	52.2	75.1	90.7
20	39.9	74.1	93.9	30.6	64.7	90.9	28.3	57.6	84.9	38.1	63.3	85.5	54.7	74.9	90.1	62.8	78.1	90.0	64.5	80.4	90.5	71.0	84.0	93.1	66.4	83.2	93.8	64.9	82.8	94.4	56.6	80.8	94.8	44.9	76.9	94.0	51.9	75.1	91.3
21	43.8	75.3	93.5	37.1	67.0	90.7	26.5	55.7	81.7	45.2	67.2	87.4	59.4	76.1	90.2	58.4	77.4	91.1	66.4	81.8	92.2	69.4	83.0	92.4	66.7	83.4	94.1	63.2	81.4	92.3	55.2	79.6	94.6	46.2	76.5	93.8	53.1	75.4	91.2
22	40.5	73.4	94.1	33.4	65.2	90.2	29.4	57.0	81.5	41.9	67.4	88.1	56.6	74.9	90.1	62.3	77.8	89.9	69.9	83.0	91.9	67.3	82.7	91.9	61.7	81.2	93.8	62.6	82.1	94.2	55.5	80.7	95.1	46.1	76.6	94.1	52.3	75.2	91.2
23	36.7	71.2	93.1	34.1	64.7	89.3	29.1	59.0	85.1	44.1	67.0	87.7	56.9	74.0	88.6	62.7	78.1	89.5	70.9	84.3	92.3	72.9	85.6	93.9	65.0	83.0	93.9	61.7	81.8	94.1	55.9	80.3	93.8	47.1	77.2	94.6	53.1	75.5	91.3
24	38.6	72.5	93.3	32.0	64.0	89.3	29.7	59.2	84.8	41.2	66.1	87.0	58.9	77.1	90.2	61.7	77.0	89.4	71.5	84.4	92.7	71.5	84.9	94.3	65.4	82.7	93.6	61.7	82.1	94.3	53.8	79.7	93.3	48.6	77.7	94.8	52.9	75.6	91.4
25	41.3	73.9	93.4	32.6	65.2	90.1	29.6	57.4	84.0	42.2	66.8	86.6	61.4	79.0	91.2	63.1	77.5	89.1	72.6	85.1	93.2	71.3	85.5	94.3	66.1	83.6	94.2	60.4	80.9	93.5	50.9	79.0	94.4	44.1	76.7	93.9	53.0	75.9	91.5
26	44.2	75.0	93.5	32.2	64.1	89.9	33.9	59.6	84.1	44.2	69.8	89.1	59.2	77.3	91.0	62.6	78.9	89.7	71.6	84.5	93.4	70.7	85.9	94.2	62.6	83.0	94.7	58.8	80.5	93.3	55.1	80.5	94.8	45.3	77.0	94.3	53.4	76.3	91.8
27	43.4	74.8	93.4	27.1	61.6	89.6	34.8	61.0	82.6	46.9	69.7	87.8	58.7	76.6	90.6	64.7	79.5	89.4	69.4	83.5	92.4	72.3	85.2	94.6	68.3	84.1	94.6	61.4	80.8	93.2	54.9	80.4	94.7	47.8	76.8	92.6	54.2	76.2	91.3
28	43.7	74.5	92.6	28.5	62.4	88.4	38.6	61.4	84.3	43.9	69.6	87.8	64.9	80.2	91.3	64.4	79.5	90.4	70.4	83.3	92.8	67.1	83.2	93.8	63.6	83.2	94.3	58.3	80.3	93.8	56.4	80.4	94.7	48.1	77.7	93.5	54.0	76.3	91.5
29	42.4	74.5	92.2	32.3	65.0	89.8	31.5	60.6	84.1	48.1	70.2	88.6	66.1	81.2	92.0	63.5	79.2	90.2	70.7	83.4	92.4	68.8	82.7	92.7	65.3	82.7	93.8	57.5	80.4	94.6	53.2	79.9	93.7	48.6	78.3	94.6	54.0	76.5	91.5
30	39.2	73.5	94.1				33.8	59.5	83.1	43.4	66.6	86.4	63.7	79.2	91.0	63.1	78.3	89.7	71.9	84.6	93.1	74.3	85.4	93.0	64.1	83.3	94.6	58.0	80.4	94.6	53.1	79.2	94.9	47.6	77.4	94.5	55.7	77.0	91.7
31	36.6	71.5	93.7				36.5	61.4	84.7				64.5	78.6	89.1				72.2	85.4	93.6	70.7	84.8	93.3				58.3	79.5	92.2				46.8	77.5	93.8	55.1	77.0	91.5
Average	42.4	75.0	93.9	31.9	66.0	90.9	30.3	60.0	85.4	37.9	63.4	85.3	55.4	74.3	89.2	63.0	78.8	90.5	68.3	82.3	91.9	70.1	83.9	93.2	66.8	83.4	94.0	63.4	82.3	94.1	57.1	80.6	94.2	48.9	77.7	93.7	53.0	75.6	91.4
Extremes	18		98	13		100	12		96	14		98	18		98	25		97	40		100	45		99	37		99	34		98	28		99	26		98	12		100
StdD.		19.3			22.5			21.5			20.9			16.5			13.3			11.8			11.1			11.9			13.4			15.7			17.7			16.3	

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 RAI

January

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											78.1	78.1
1-3	2-6	0.6-1.5	1.9	2.9	2.8	2.6	2.6	1.8	1.3	1		16.9
4-16	7-30	1.6-8.5	0.8	1	0.5	1.1	1.7	1.7	0.1	0.2		8.9
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			2.5	3.9	3.3	3.7	4.3	3.5	1.4	1.2	78.1	100

February

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											69.9	69.9
1-3	2-6	0.6-1.5	1.7	3.4	2.6	2.5	2.4	2.2	1.7	1.4		17.9
4-16	7-30	1.6-8.5	0.5	1.2	0.6	1.2	2.7	3.9	0.9	0.9		11.9
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			2.2	4.6	3.2	3.7	5.1	8.1	2.6	2.5	69.9	100

March

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											65.1	65.1
1-3	2-6	0.6-1.5	1.6	4.1	2.2	2.5	3.2	3	1.5	1.6		19.7
4-16	7-30	1.6-8.5	1	1.6	0.7	1.8	3.5	5	1	0.8		15.4
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			2.6	5.7	2.9	4.3	6.7	8	2.5	2.4	65.1	100

April

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											60.2	60.2
1-3	2-6	0.6-1.5	1.8	2.8	2.2	3.6	4.6	2.9	1.7	1.3		20.7
4-16	7-30	1.6-8.5	1.2	2.2	1	2.3	4.5	5.4	1.3	1.1		19
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			2.8	5	3.2	5.9	9.1	8.3	3	2.4	60.2	100

May

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											58.2	58.2
1-3	2-6	0.6-1.5	1	2.3	2.3	2.9	5.4	4.6	2	1.7		22.2
4-16	7-30	1.6-8.5	0.7	1.7	0.9	2.4	5.5	5.9	1.1	1.2		19.4
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			1.7	4	3.2	5.3	10.9	10.5	3.1	2.9	58.2	100

June

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											58.1	58.1
1-3	2-6	0.6-1.5	0.6	1.2	1	2.1	5.3	6.3	2.1	1.2		19.8
4-16	7-30	1.6-8.5	0.5	0.6	0.4	1.5	7.3	9.4	1.4	0.8		21.9
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			1.1	1.8	1.4	3.6	12.6	15.7	3.5	2	58.1	100

July

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											60.5	60.5
1-3	2-6	0.6-1.5	0.5	1	1.2	1.7	5.8	5.7	2	0.9		18.8
4-16	7-30	1.6-8.5	0.5	0.6	0.4	1.6	7.8	8	1	0.7		20.6
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			1	1.6	1.6	3.3	13.6	13.7	3	1.8	60.5	100

August

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											61.1	61.1
1-3	2-6	0.6-1.5	0.7	1.6	1.6	2.3	6.2	4.8	2	1.1		20.1
4-16	7-30	1.6-8.5	0.4	1	0.4	1.8	7.2	5.9	1.2	0.8		18.7
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			1.1	2.6	2	4.1	13.4	10.5	3.2	1.9	61.1	100

September

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											66.2	66.2
1-3	2-6	0.6-1.5	1.6	3.5	2.4	2.8	3.4	3.2	1.9	1.2		19.8
4-16	7-30	1.6-8.5	1.7	3.9	0.8	1.3	2.2	2.7	0.8	0.6		13.8
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			3.3	7.4	3.2	3.9	5.6	5.9	2.5	1.8	66.2	100

October

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											67.5	67.5
1-3	2-6	0.6-1.5	2.8	5.6	2.7	2.3	1.9	1.2	0.9	1		18.2
4-16	7-30	1.6-8.5	2.8	7.3	1.3	0.9	0.7	0.8	0.2	0.2		14.2
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			5.4	12.9	4	3.2	2.6	2	1.1	1.2	67.5	100

November

kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											70.2	70.2
1-3	2-6	0.6-1.5	3.3	5.6	2.4	1.6	1.5	0.8	0.8	0.9		16.7
4-16	7-30	1.6-8.5	3.3	7.5	1.1	0.3	0.5	0.3	0	0.1		13.1
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			6.6	13.1	3.5	1.9	2	1.1	0.8	1	70.2	100

December

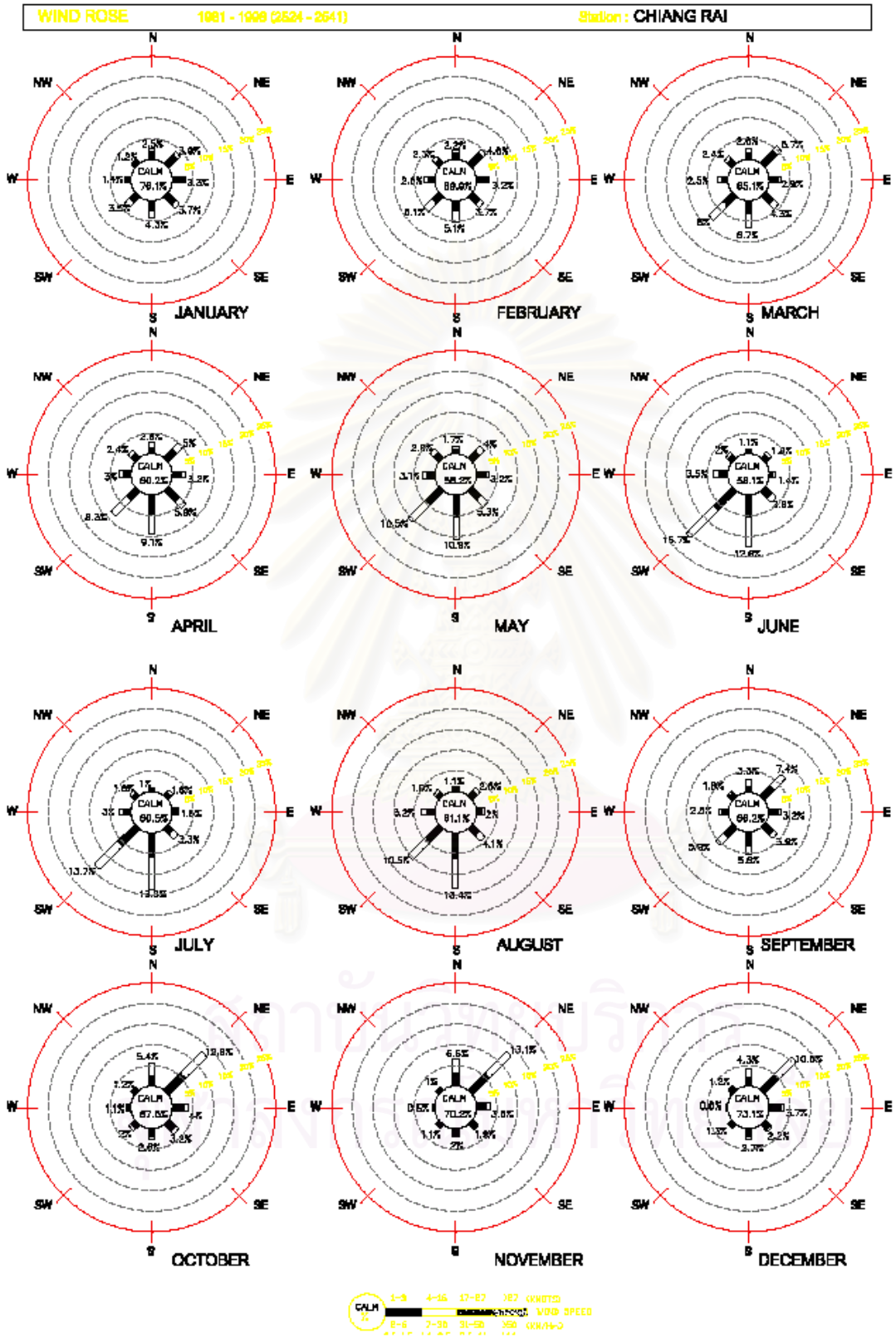
kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total
											73.1	73.1
1-3	2-6	0.6-1.5	2.2	4.7	2.9	1.8	1.8	1.1	0.6	1.1		16.2
4-16	7-30	1.6-8.5	2.1	6.1	0.8	0.4	0.9	0.2	0	0.1		10.6
17-27	31-50	8.6-14	0	0	0	0	0	0	0	0		0
>27	>50	>14	0	0	0	0	0	0	0	0		0
Total			4.3	10.8	3.7	2.2	2.7	1.3	0.6	1.2	73.1	100

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)



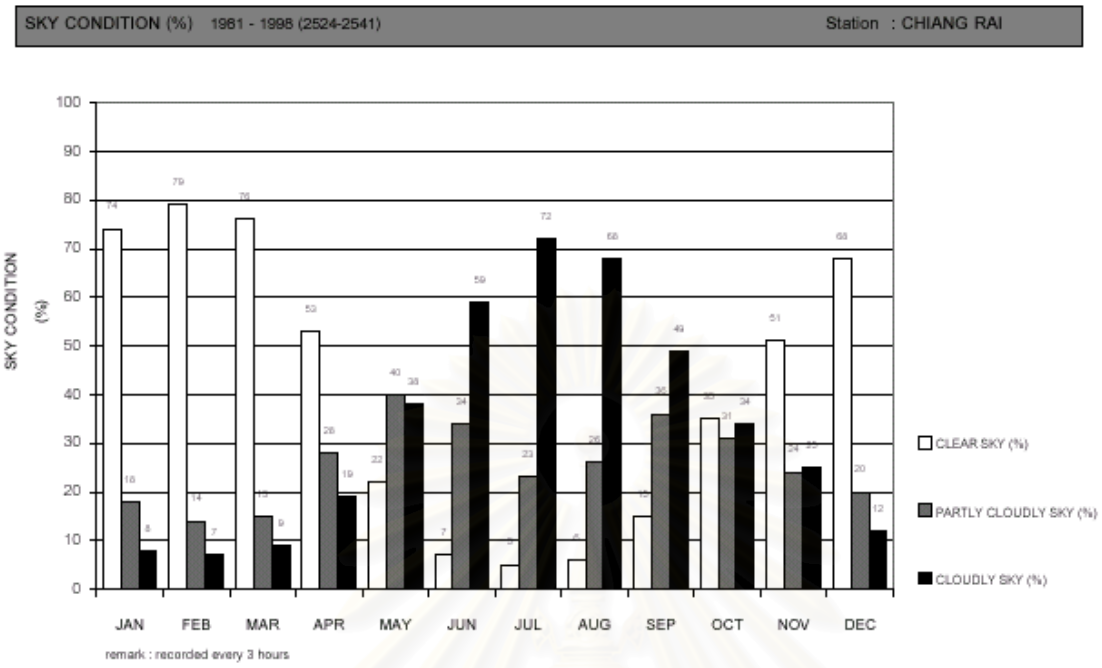
ตารางแสดงผลข้อมูลสภาพท้องฟ้าและสัดส่วนเปอร์เซ็นต์สภาพท้องฟ้า (sky cover and percentage of sky condition)

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

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%	15%	9%	77%	17%	6%	75%	18%	7%	71%	22%	7%	36%	42%	22%	8%	38%	54%	7%	30%	63%	4%	19%	77%	1%	28%	71%	22%	32%	46%	55%	24%	21%	51%	27%	21%	40%	26%	34%
2	73%	19%	8%	71%	15%	14%	76%	13%	10%	74%	17%	9%	32%	46%	22%	7%	41%	51%	5%	23%	72%	7%	27%	66%	5%	30%	65%	21%	40%	39%	54%	24%	23%	58%	23%	19%	40%	27%	33%
3	62%	29%	10%	76%	18%	5%	78%	11%	11%	71%	16%	13%	36%	40%	24%	7%	37%	57%	4%	26%	70%	6%	24%	70%	7%	26%	67%	20%	47%	33%	35%	31%	35%	71%	20%	9%	39%	27%	33%
4	65%	24%	11%	80%	13%	7%	76%	14%	10%	68%	23%	10%	35%	40%	25%	12%	35%	54%	5%	26%	69%	3%	28%	69%	4%	41%	55%	15%	43%	42%	38%	24%	38%	79%	13%	8%	40%	27%	33%
5	65%	27%	7%	78%	13%	9%	80%	10%	10%	62%	27%	11%	32%	30%	38%	8%	22%	70%	4%	21%	75%	4%	26%	71%	8%	31%	61%	18%	42%	40%	44%	26%	29%	66%	21%	13%	39%	25%	36%
6	60%	30%	10%	83%	12%	5%	78%	13%	9%	63%	22%	15%	29%	40%	31%	5%	37%	58%	4%	18%	77%	9%	29%	63%	12%	38%	50%	10%	45%	45%	55%	27%	18%	55%	28%	17%	39%	28%	33%
7	74%	21%	5%	81%	13%	6%	76%	17%	7%	65%	18%	17%	24%	48%	28%	8%	33%	59%	4%	24%	73%	5%	30%	65%	4%	47%	49%	18%	37%	46%	68%	15%	16%	64%	26%	10%	41%	27%	32%
8	75%	14%	11%	74%	15%	11%	79%	7%	14%	68%	23%	10%	29%	36%	35%	4%	30%	66%	8%	25%	67%	5%	31%	64%	7%	34%	59%	26%	35%	39%	52%	27%	21%	68%	18%	14%	41%	25%	34%
9	80%	13%	7%	74%	15%	11%	79%	7%	15%	68%	21%	10%	23%	43%	35%	9%	31%	60%	6%	17%	77%	4%	31%	65%	13%	34%	53%	25%	37%	38%	45%	18%	37%	64%	18%	18%	41%	24%	35%
10	76%	15%	9%	83%	13%	4%	80%	13%	7%	69%	18%	13%	26%	35%	38%	4%	35%	60%	4%	24%	71%	1%	29%	70%	9%	39%	52%	29%	42%	29%	51%	20%	29%	63%	19%	18%	41%	25%	33%
11	93%	3%	4%	88%	12%	0%	87%	10%	3%	71%	21%	7%	23%	40%	37%	10%	35%	54%	3%	29%	68%	2%	20%	78%	10%	40%	49%	24%	32%	43%	49%	26%	25%	57%	24%	18%	43%	25%	32%
12	83%	13%	4%	82%	14%	4%	69%	16%	15%	54%	35%	12%	23%	47%	30%	9%	35%	56%	4%	26%	70%	7%	29%	65%	11%	51%	38%	24%	32%	44%	52%	24%	24%	71%	20%	10%	41%	28%	31%
13	71%	22%	7%	91%	4%	4%	71%	21%	8%	54%	32%	14%	27%	38%	35%	10%	36%	54%	4%	29%	68%	4%	18%	78%	15%	46%	40%	29%	40%	30%	49%	26%	25%	76%	18%	7%	42%	28%	31%
14	77%	18%	4%	86%	13%	1%	78%	14%	8%	55%	28%	17%	19%	44%	37%	9%	43%	48%	3%	24%	74%	6%	17%	77%	13%	45%	42%	32%	31%	37%	43%	22%	35%	74%	22%	4%	41%	27%	32%
15	78%	15%	7%	82%	15%	3%	81%	13%	6%	50%	26%	24%	18%	46%	36%	7%	37%	57%	5%	21%	74%	5%	20%	75%	13%	24%	64%	45%	28%	27%	48%	21%	32%	66%	17%	17%	41%	23%	35%
16	69%	25%	6%	77%	18%	5%	79%	14%	7%	56%	27%	17%	26%	42%	32%	9%	39%	52%	6%	27%	67%	6%	26%	68%	11%	49%	40%	49%	29%	23%	59%	17%	24%	65%	28%	7%	43%	28%	29%
17	61%	36%	3%	82%	15%	3%	78%	14%	8%	53%	34%	13%	21%	41%	38%	10%	39%	51%	4%	21%	76%	9%	26%	65%	11%	39%	50%	46%	16%	38%	53%	25%	22%	63%	26%	10%	41%	28%	31%
18	74%	15%	11%	86%	10%	4%	85%	11%	4%	50%	25%	25%	15%	38%	48%	6%	29%	65%	9%	26%	65%	10%	24%	66%	11%	40%	49%	42%	23%	35%	48%	33%	19%	67%	24%	10%	42%	25%	33%
19	80%	13%	7%	80%	14%	6%	82%	14%	4%	44%	33%	23%	17%	42%	41%	12%	37%	51%	7%	36%	57%	11%	26%	63%	15%	37%	49%	35%	32%	33%	49%	25%	26%	63%	18%	18%	41%	27%	31%
20	82%	14%	4%	77%	14%	9%	83%	15%	2%	46%	31%	24%	20%	40%	40%	8%	38%	54%	4%	36%	60%	6%	25%	69%	14%	36%	50%	35%	25%	40%	54%	21%	25%	71%	18%	11%	42%	26%	32%
21	82%	10%	8%	77%	13%	10%	84%	15%	1%	45%	36%	19%	26%	29%	45%	7%	38%	56%	7%	28%	65%	7%	28%	65%	17%	32%	51%	39%	26%	35%	45%	38%	18%	74%	19%	7%	42%	26%	32%
22	80%	15%	4%	73%	16%	11%	77%	17%	6%	50%	22%	28%	26%	36%	38%	4%	29%	68%	1%	15%	83%	9%	31%	60%	24%	44%	32%	46%	21%	33%	51%	26%	23%	66%	24%	10%	42%	25%	33%
23	80%	15%	4%	72%	15%	13%	76%	14%	10%	39%	35%	26%	24%	42%	35%	6%	38%	56%	2%	21%	77%	5%	24%	71%	21%	32%	46%	40%	26%	35%	56%	19%	25%	69%	22%	9%	41%	25%	34%
24	79%	15%	6%	72%	18%	10%	81%	12%	7%	35%	43%	22%	16%	40%	43%	4%	36%	60%	1%	24%	75%	3%	21%	76%	17%	36%	47%	48%	27%	25%	50%	23%	27%	77%	13%	10%	40%	26%	34%
25	79%	15%	6%	76%	13%	12%	77%	15%	8%	45%	33%	22%	11%	38%	51%	7%	36%	57%	1%	18%	80%	1%	25%	74%	21%	29%	50%	52%	20%	28%	61%	19%	20%	80%	18%	2%	43%	23%	34%
26	71%	15%	13%	78%	11%	11%	76%	11%	13%	40%	32%	28%	12%	48%	40%	3%	28%	69%	1%	17%	82%	3%	26%	71%	26%	30%	43%	40%	29%	31%	49%	33%	18%	74%	15%	12%	39%	25%	36%
27	65%	18%	18%	82%	13%	5%	65%	20%	15%	38%	29%	33%	13%	42%	46%	2%	18%	80%	1%	24%	76%	7%	31%	63%	28%	26%	46%	42%	26%	32%	60%	19%	21%	68%	18%	15%	39%	24%	37%
28	71%	21%	8%	75%	23%	2%	63%	21%	15%	26%	43%	31%	7%	36%	57%	1%	24%	75%	7%	18%	75%	8%	40%	52%	26%	39%	35%	54%	26%	20%	56%	21%	24%	71%	15%	14%	39%	27%	34%
29	64%	24%	12%	81%	19%	0%	64%	26%	10%	27%	43%	30%	9%	28%	63%	3%	28%	69%	3%	24%	74%	7%	42%	51%	33%	25%	42%	57%	21%	21%	53%	22%	25%	62%	21%	17%	39%	27%	34%
30	71%	19%	10%				63%	27%	10%	34%	40%	26%	8%	38%	54%	4%	37%	59%	3%	15%	82%	6%	24%	71%	30%	31%	39%	54%	22%	24%	68%	18%	14%	66%	21%	13%	37%	27%	37%
31	85%	14%	1%				71%	18%	11%				9%	42%	49%				3%	15%	82%	4%	24%	72%				49%	30%	21%				78%	11%	11%	43%	22%	35%
AVG %	74%	18%	7%	79%	14%	7%	78%	15%	9%	53%	28%	19%	22%	40%	38%	7%	34%	59%	4%	23%	72%	6%	26%	68%	15%	36%	49%	35%	31%	34%	52%	24%	25%	68%	20%	12%	41%	26%	33%
condition			2.1			1.8			1.9			3.6			6.1			7.5			8.3			8.0			6.8			5.2			4.1			2.7			4.8

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)



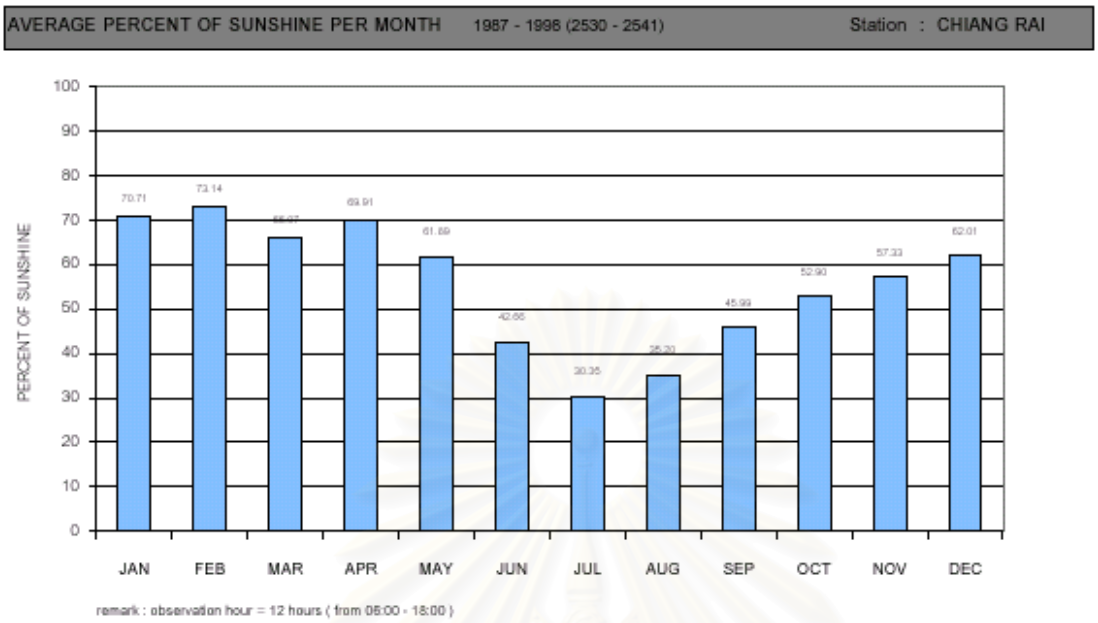
ตารางแสดงผลข้อมูลระยะเวลาของแสงแดด (duration of sunshine)

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

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	8.9	74.0%	8.5	70.8%	8.5	70.9%	7.9	65.6%	8.5	70.4%	5.9	48.8%	4.7	39.5%	2.9	23.8%	3.5	29.3%	6.7	55.5%	7.7	64.2%	6.4	53.5%	6.7	55.5%
2	8.6	71.5%	8.3	69.1%	8.1	67.8%	8.3	69.5%	8.7	72.2%	5.3	43.8%	3.1	26.1%	4.1	34.5%	4.1	33.8%	6.6	54.9%	7.4	61.6%	7.0	58.5%	6.6	55.3%
3	8.1	67.3%	8.8	73.7%	8.4	70.2%	7.8	64.9%	7.7	64.2%	6.4	53.3%	2.7	22.6%	3.5	29.0%	6.0	50.1%	7.1	59.2%	5.6	46.7%	8.2	68.3%	6.7	55.8%
4	8.5	70.7%	8.5	71.1%	8.3	69.2%	8.6	71.4%	8.6	71.9%	5.6	47.0%	2.8	23.0%	3.8	31.3%	6.0	49.7%	5.6	46.7%	5.5	46.0%	7.5	62.8%	6.6	55.1%
5	8.2	68.5%	8.7	72.8%	7.9	65.6%	7.9	65.8%	7.9	65.8%	4.9	40.4%	2.5	21.1%	5.4	45.3%	4.8	39.6%	4.9	40.6%	6.1	51.0%	8.2	68.1%	6.4	53.7%
6	7.9	65.8%	8.9	74.4%	8.8	73.5%	7.9	65.4%	8.0	66.5%	5.5	46.0%	2.7	22.7%	4.3	35.4%	5.3	43.8%	3.9	32.9%	7.7	64.2%	6.5	54.3%	6.5	53.8%
7	8.5	70.7%	9.6	79.9%	8.8	73.7%	7.8	65.3%	9.0	74.7%	5.2	43.5%	3.2	26.4%	4.6	38.3%	7.2	59.9%	5.8	48.3%	7.1	59.5%	7.5	62.8%	7.0	58.6%
8	8.1	67.7%	9.1	76.1%	7.4	61.8%	8.8	73.3%	8.2	68.4%	4.7	39.0%	4.4	36.5%	3.5	29.4%	4.9	40.9%	5.4	45.3%	6.6	54.8%	7.4	61.9%	6.6	54.6%
9	8.7	72.2%	8.7	72.1%	7.6	63.5%	9.3	77.2%	7.7	64.3%	5.5	46.2%	4.2	34.9%	4.5	37.6%	5.8	48.5%	4.8	40.2%	5.7	47.7%	7.0	58.1%	6.6	55.2%
10	8.5	70.8%	9.3	77.2%	7.8	65.1%	8.9	74.5%	8.2	68.5%	4.1	33.8%	4.5	37.4%	3.5	29.4%	5.2	43.0%	5.3	43.9%	6.4	53.0%	7.5	62.6%	6.6	54.9%
11	9.1	75.6%	9.3	77.4%	8.5	71.1%	8.7	72.5%	5.5	45.8%	5.1	42.7%	4.0	33.3%	3.1	25.6%	5.8	48.3%	5.4	45.4%	8.6	71.8%	6.4	53.1%	6.6	55.2%
12	8.9	74.1%	8.8	73.5%	7.3	60.8%	8.4	69.8%	7.2	59.8%	4.9	41.2%	4.1	33.9%	4.6	38.4%	7.4	61.3%	5.1	42.2%	8.3	69.2%	7.7	64.3%	6.9	57.4%
13	8.7	72.2%	9.3	77.4%	7.8	64.7%	9.0	75.2%	8.5	70.6%	5.2	43.0%	3.9	32.8%	3.8	31.3%	6.8	56.5%	6.9	57.9%	7.9	66.4%	7.9	65.9%	7.1	59.4%
14	8.7	72.1%	9.6	80.1%	7.8	65.1%	8.7	72.2%	7.7	64.2%	5.4	44.9%	4.2	34.7%	3.7	30.6%	6.5	53.8%	5.8	48.0%	6.4	53.3%	7.5	62.2%	6.8	56.8%
15	8.2	68.5%	9.7	80.8%	8.1	67.6%	8.2	68.5%	7.3	61.0%	6.0	49.6%	2.9	24.5%	4.2	34.7%	4.4	36.5%	6.5	54.5%	7.0	58.2%	6.6	54.7%	6.6	54.9%
16	8.8	73.5%	9.1	76.0%	8.6	71.9%	9.2	76.7%	7.3	60.4%	5.9	48.8%	3.4	28.2%	4.6	38.1%	6.6	54.6%	7.1	59.3%	7.2	60.1%	7.7	63.8%	7.1	59.3%
17	8.8	72.9%	9.5	79.2%	8.5	71.1%	9.3	77.6%	7.8	64.7%	5.2	43.3%	3.7	30.6%	4.9	41.2%	5.7	47.4%	6.3	52.6%	7.8	65.3%	6.3	52.7%	7.0	58.2%
18	8.7	72.8%	9.2	76.9%	8.1	67.2%	8.2	68.5%	6.2	51.9%	5.7	47.7%	4.1	34.2%	4.4	36.8%	6.1	50.5%	6.4	53.3%	7.3	60.5%	6.9	57.2%	6.8	56.4%
19	8.8	73.3%	8.8	73.1%	8.1	67.4%	7.9	65.8%	6.9	57.8%	5.6	46.5%	5.6	46.5%	4.9	40.6%	5.3	44.0%	6.5	54.5%	6.3	52.8%	6.8	56.9%	6.8	56.6%
20	8.8	73.0%	8.3	68.8%	8.5	70.8%	9.0	75.1%	7.1	59.4%	4.9	41.2%	5.6	46.3%	5.0	41.9%	5.5	45.9%	6.7	56.2%	7.1	59.2%	7.2	60.3%	7.0	58.2%
21	8.5	71.0%	7.7	63.8%	8.5	70.7%	8.6	71.9%	6.8	56.5%	6.6	54.7%	3.7	31.1%	5.5	46.1%	4.8	39.7%	6.5	54.2%	7.5	62.8%	7.5	62.5%	6.8	57.1%
22	9.1	76.0%	8.0	66.8%	8.0	66.4%	7.8	65.0%	8.7	72.5%	4.8	40.0%	3.8	31.9%	5.0	42.0%	6.1	51.2%	7.0	58.4%	6.6	55.1%	8.1	67.6%	6.9	57.7%
23	9.0	75.0%	7.6	63.5%	7.9	66.2%	7.7	64.5%	8.8	72.9%	5.4	44.8%	3.0	25.4%	4.6	38.4%	4.9	40.8%	6.9	57.4%	6.2	52.0%	7.5	62.4%	6.6	55.3%
24	8.9	74.4%	7.9	65.6%	7.2	60.3%	8.2	68.1%	8.1	67.7%	4.8	40.1%	3.9	32.4%	3.8	31.3%	4.7	38.8%	7.8	65.2%	5.9	49.5%	7.4	62.0%	6.6	54.6%
25	8.8	72.9%	7.7	64.4%	7.0	58.1%	8.6	71.3%	6.0	49.8%	4.3	36.2%	2.8	23.0%	3.9	32.4%	5.4	44.7%	6.7	56.0%	7.2	60.3%	8.5	71.2%	6.4	53.4%
26	7.4	61.9%	8.0	66.7%	6.7	55.8%	8.4	69.7%	7.1	59.3%	4.3	35.9%	3.6	30.2%	3.6	30.3%	5.5	45.8%	7.0	58.0%	5.8	48.1%	7.3	61.2%	6.2	51.9%
27	7.3	61.0%	8.9	74.5%	6.9	57.3%	7.6	63.5%	8.0	66.6%	4.0	33.0%	4.1	34.0%	5.1	42.1%	4.0	33.3%	6.1	50.6%	6.3	52.6%	7.8	64.7%	6.3	52.8%
28	7.8	65.3%	9.3	77.4%	6.4	53.2%	7.8	65.3%	5.6	46.7%	3.6	29.6%	3.8	31.8%	5.9	49.2%	6.1	50.6%	7.6	63.2%	6.8	56.9%	7.9	65.9%	6.6	54.6%
29	7.1	59.5%	9.4	78.1%	8.1	67.6%	8.8	73.0%	5.1	42.8%	3.9	32.7%	3.6	29.7%	4.7	39.1%	5.7	47.8%	8.0	66.7%	6.4	53.0%	7.3	61.2%	6.5	54.3%
30	8.6	71.7%			8.1	67.2%	8.4	70.1%	5.8	48.7%	5.1	42.2%	2.5	21.1%	2.3	18.9%	6.0	49.8%	7.2	60.0%	7.8	64.9%	8.2	68.1%	6.4	53.0%
31	9.1	75.8%			8.0	66.5%			6.3	52.5%			1.8	15.0%	3.4	28.4%			7.0	58.7%			8.8	73.6%	6.4	52.9%
Average	8.5	70.7%	8.8	73.1%	7.9	66.1%	8.4	69.9%	7.4	61.9%	5.1	42.7%	3.6	30.4%	4.2	35.2%	5.5	46.0%	6.3	52.9%	6.9	57.3%	7.4	62.0%	6.7	55.6%
Total	263.1		254.5		245.8		251.7		230.2		153.6		112.9		130.9		165.6		196.8		206.4		230.7		2,442.1	

remark : observation hour = 12 hours (from 06:00 - 07:30 to 17:30 - 18:30)

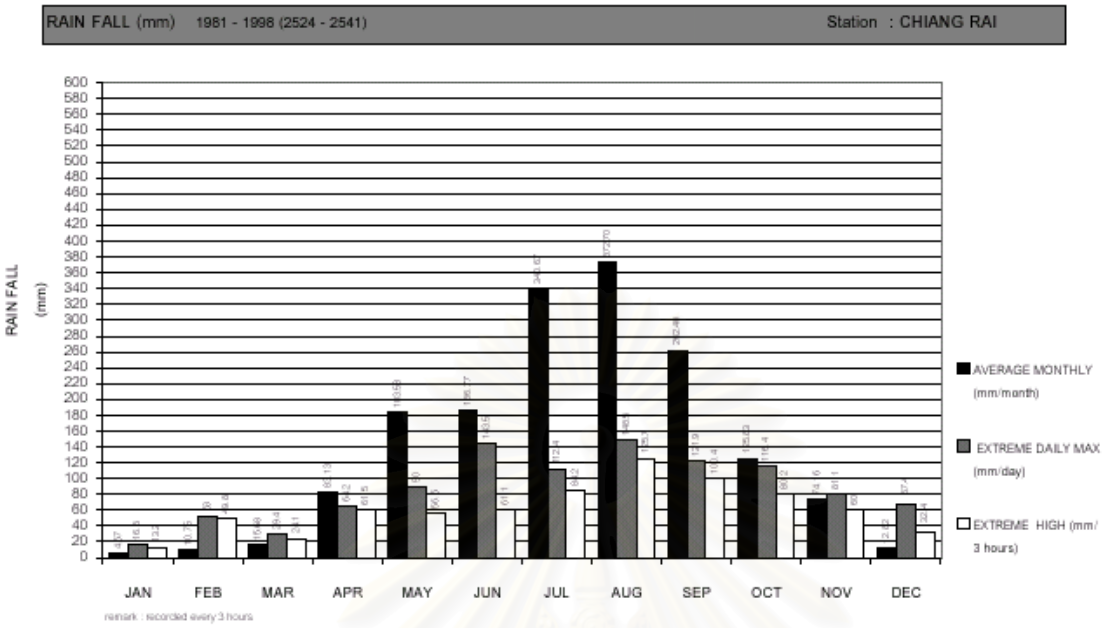
แผนภูมิระยะเวลาของแสดงแดด (average percent of sunshine per month)



ตารางแสดงผลข้อมูลปริมาณน้ำฝน (rain fall)

RAIN FALL (mm) 1981 - 1998 (2524 - 2541)													Station : CHIANG RAI
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	0.9	0.0	0.0	1.3	4.6	7.1	9.6	13.7	17.3	4.2	2.5	0.1	61.3
2	0.0	0.0	0.5	2.9	2.0	5.5	5.4	8.3	14.6	8.0	1.0	0.1	48.2
3	0.1	0.0	0.0	4.0	8.9	3.1	9.8	4.6	10.1	1.8	3.6	0.0	46.1
4	1.0	0.1	0.6	2.1	7.9	14.8	9.1	4.9	9.7	5.5	2.2	0.2	58.1
5	0.0	0.1	0.0	1.6	5.4	9.3	12.1	13.0	7.8	6.1	1.4	0.0	56.9
6	0.0	0.0	0.3	3.2	3.9	6.6	14.4	17.1	12.3	6.5	2.0	0.4	66.7
7	0.0	0.0	0.0	1.7	6.8	9.7	6.0	19.2	15.5	7.2	1.1	0.8	68.1
8	0.0	0.0	0.1	1.1	6.1	7.6	10.5	10.2	6.0	8.9	4.0	0.1	54.5
9	0.0	0.0	0.0	0.1	4.8	3.1	7.8	11.5	17.1	2.7	7.9	0.1	55.0
10	0.0	0.0	0.0	1.0	3.3	7.4	11.0	11.1	9.8	3.8	2.6	0.0	50.1
11	0.0	0.1	0.0	0.2	7.2	2.7	6.9	11.5	7.0	3.4	6.2	0.0	45.3
12	0.0	0.0	0.0	0.6	2.5	10.1	8.3	13.8	4.5	6.4	8.9	0.0	55.3
13	0.0	0.0	0.0	3.4	11.4	11.3	5.9	6.7	4.3	3.5	5.2	0.0	51.9
14	0.0	0.0	0.0	2.0	5.6	2.5	11.4	10.3	11.9	1.0	4.0	0.0	48.6
15	0.0	1.0	1.2	1.0	7.3	2.3	8.6	13.7	11.6	1.7	3.6	0.0	51.9
16	0.0	0.0	0.3	3.2	2.6	6.6	12.5	12.0	6.3	1.7	3.0	0.0	48.1
17	0.0	0.0	0.4	2.8	4.6	3.7	13.5	6.9	6.7	6.5	0.3	0.0	45.5
18	0.0	0.1	1.5	2.8	6.4	3.4	7.0	10.6	7.5	4.7	2.2	0.0	46.2
19	0.1	3.7	0.0	3.3	4.8	4.3	8.2	16.6	6.6	3.1	2.0	0.0	52.7
20	0.0	0.3	0.0	3.6	4.0	3.6	13.6	13.1	6.2	6.7	2.5	0.0	53.6
21	0.6	1.1	0.0	2.2	6.9	3.5	6.6	6.2	11.7	3.3	0.4	0.0	42.5
22	0.9	1.5	0.3	1.0	8.1	8.7	9.4	10.1	3.3	3.1	1.4	0.0	47.7
23	0.0	0.5	1.3	2.1	5.2	6.4	20.4	20.9	6.1	1.1	0.0	1.9	65.9
24	0.0	0.6	0.6	0.8	5.7	7.7	12.4	15.9	8.1	10.4	0.0	3.4	65.8
25	0.1	0.2	0.0	8.2	10.4	3.1	11.6	18.6	5.6	1.2	0.5	0.0	59.4
26	0.0	0.9	1.8	2.4	1.9	5.1	14.6	11.7	10.9	0.0	0.9	0.0	50.3
27	0.0	0.5	3.2	9.0	6.7	6.7	11.6	14.3	8.1	6.0	1.4	0.5	67.9
28	0.2	0.0	0.9	5.0	10.4	8.0	10.1	6.2	3.0	4.0	0.4	1.2	49.2
29	0.0	0.0	0.0	6.0	7.0	5.1	18.0	12.3	8.8	0.7	1.3	0.1	59.6
30	0.7		0.5	4.4	5.8	7.6	17.6	8.3	4.1	1.8	1.5	0.1	52.4
31	0.0		2.3		5.7		16.9	19.2		0.8		3.7	48.6
Monthly	4.7	10.8	15.7	83.1	183.6	186.8	340.7	372.7	262.4	125.8	74.2	12.8	1,673.2
Daily record high	16.8	53.0	29.4	64.2	90.0	143.5	112.4	148.5	121.9	116.4	81.1	67.4	148.5
3 hr. Extremes	13.2	49.8	24.1	61.5	56.6	61.1	84.2	125.7	100.4	80.2	60.0	32.4	125.7
No. of rainy days	1	2	2	5	15	16	17	20	22	17	6	1	125

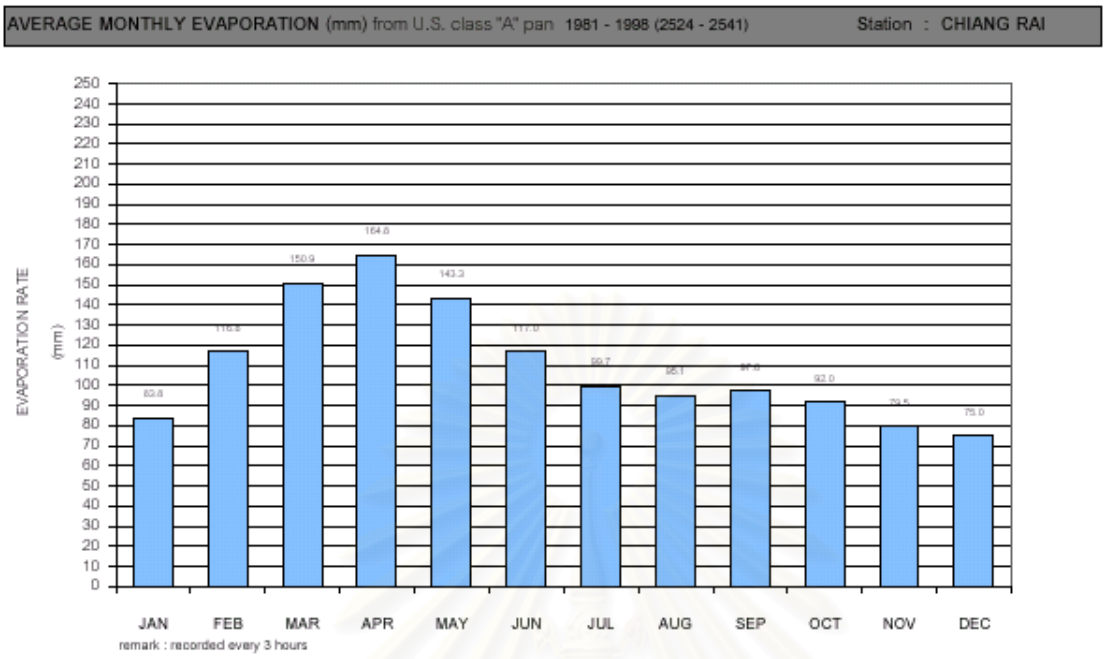
แผนภูมิปริมาณน้ำฝน (rain fall)



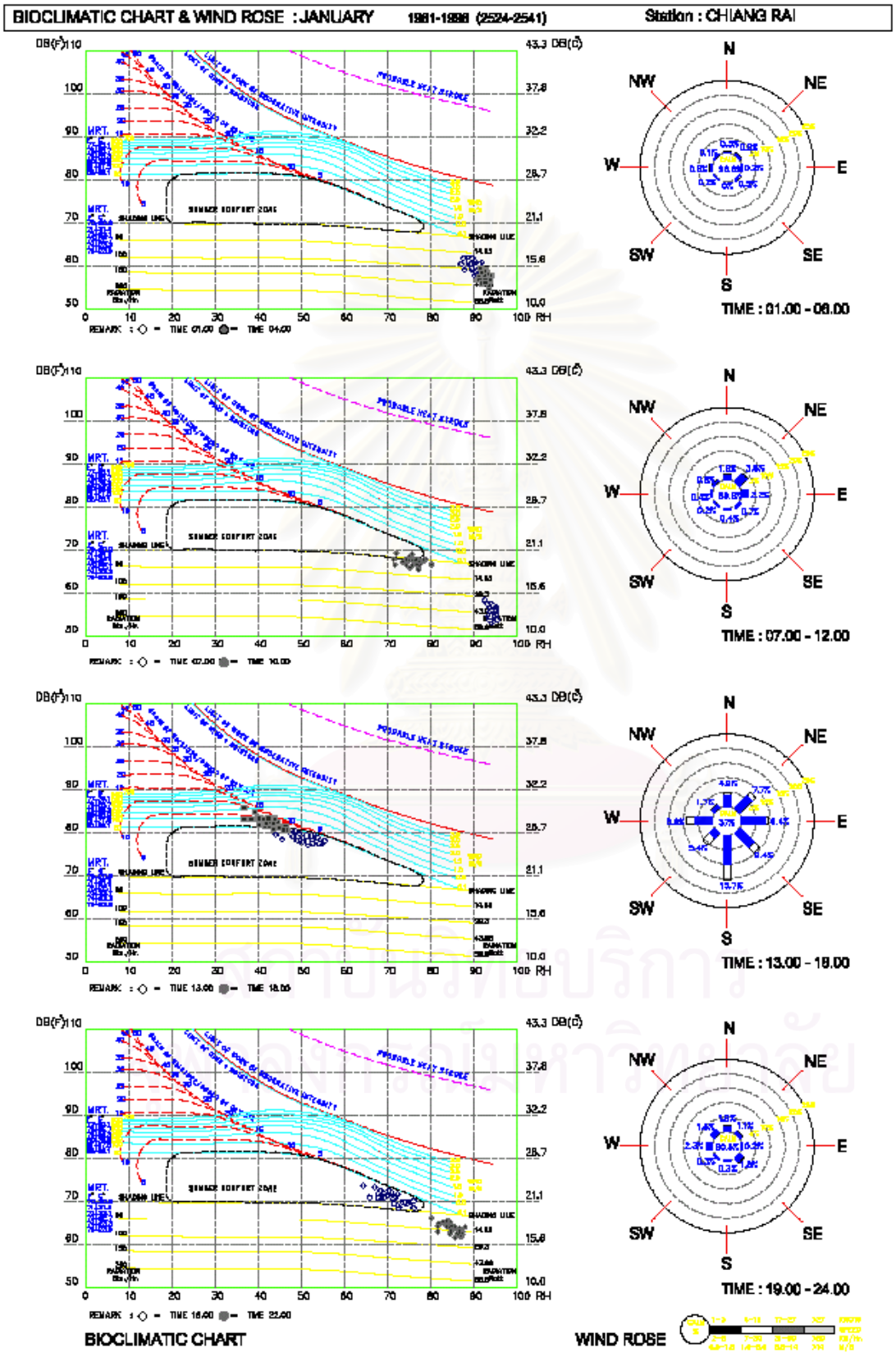
ตารางแสดงผลข้อมูลค่าเฉลี่ยอัตราการระเหยของน้ำรายวัน (evaporation)

EVAPORATION (mm) 1981 - 1998 (2524 - 2541)													Station : CHIANG RAI
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	2.5	3.3	4.6	5.8	5.1	3.9	4.4	2.7	3.1	3.0	3.0	2.6	44.1
2	2.2	3.1	4.2	5.9	5.3	4.1	3.6	3.6	3.0	3.1	2.8	2.5	43.4
3	2.3	3.4	4.6	4.8	5.0	4.5	3.8	3.2	3.2	3.3	2.8	2.5	43.4
4	2.6	3.6	4.4	5.5	5.4	4.9	3.2	2.9	3.2	3.3	2.9	2.4	44.1
5	2.7	3.7	4.6	5.5	4.9	3.8	3.1	3.4	3.5	2.9	2.7	2.4	43.0
6	2.5	3.8	4.6	5.8	4.3	4.4	3.1	2.9	3.1	2.6	2.4	2.3	41.8
7	2.7	3.6	4.6	5.2	5.6	3.2	3.1	3.5	3.7	2.8	2.8	2.7	43.5
8	2.5	3.5	4.2	5.4	5.8	3.6	2.6	3.2	3.0	2.6	2.6	2.5	41.4
9	2.9	3.7	4.5	6.2	4.6	4.1	2.8	3.1	3.6	2.7	2.7	2.4	43.4
10	2.5	3.5	4.6	6.1	4.7	3.9	3.0	3.1	3.2	2.7	2.7	2.4	42.3
11	2.7	3.4	4.6	5.8	4.3	3.6	3.5	2.7	3.1	3.2	3.0	2.3	42.2
12	2.7	3.8	4.5	5.6	4.6	4.0	3.4	3.1	3.7	3.3	2.6	2.1	43.3
13	2.5	3.9	4.6	5.4	4.9	3.8	3.5	3.1	3.6	3.1	2.8	2.5	43.7
14	2.8	4.2	5.9	5.8	4.2	3.7	3.3	2.9	3.2	3.2	2.8	2.5	44.4
15	2.8	4.1	5.2	5.3	4.5	3.8	2.8	3.5	3.0	3.1	2.3	2.3	42.6
16	2.6	4.8	4.7	5.7	4.3	4.2	3.2	2.8	3.1	2.8	2.4	2.3	42.8
17	3.1	4.0	5.1	5.1	4.7	4.3	3.2	3.5	3.4	2.9	2.6	2.7	44.6
18	2.8	4.3	5.1	5.2	4.2	3.7	3.5	3.1	2.9	2.9	2.6	2.6	42.9
19	2.7	4.2	5.3	5.9	4.4	3.9	4.1	3.5	3.6	3.1	3.0	2.5	46.2
20	2.8	4.3	4.9	5.5	5.2	4.1	3.7	2.9	3.2	2.9	2.5	2.4	44.1
21	2.5	4.3	5.3	5.3	4.6	4.0	3.4	3.1	3.3	2.6	2.7	2.4	43.6
22	2.9	4.9	5.1	5.2	4.4	4.0	2.8	3.0	3.4	3.1	2.4	2.3	43.4
23	3.1	4.5	5.1	5.2	5.0	3.8	2.8	2.9	3.0	3.1	2.7	2.5	43.6
24	3.0	4.6	4.8	5.1	4.8	3.8	3.0	2.4	3.3	2.9	2.5	2.2	42.4
25	2.7	4.0	5.0	5.8	4.1	4.0	2.8	2.7	3.5	3.0	2.6	2.4	42.5
26	2.5	4.9	5.0	5.3	4.2	3.8	3.3	2.5	3.3	3.0	2.3	2.5	42.6
27	2.9	4.8	5.0	5.1	4.5	3.4	2.7	2.9	3.0	2.9	2.4	2.2	41.8
28	2.9	5.0	4.9	5.5	4.1	3.9	3.1	3.2	2.9	2.9	2.7	2.6	43.6
29	2.6	3.8	5.4	4.9	3.7	3.5	3.0	3.6	3.5	3.2	2.8	2.1	42.1
30	2.9		4.9	5.9	4.0	3.4	3.0	3.0	3.0	3.0	2.6	2.3	38.1
31	3.3		5.6		4.1		2.9	2.9		3.1		2.4	24.2
AVG.Monthly	83.8	116.8	150.9	164.8	143.3	117.0	99.7	95.1	97.6	92.0	79.5	75.0	1,315.4
Daily Mean	2.7	4.0	4.9	5.5	4.6	3.9	3.2	3.1	3.3	3.0	2.7	2.4	3.6
Extremes	6.5	11.0	17.0	15.0	13.4	8.8	8.7	12.5	8.8	7.7	8.3	4.5	17.0

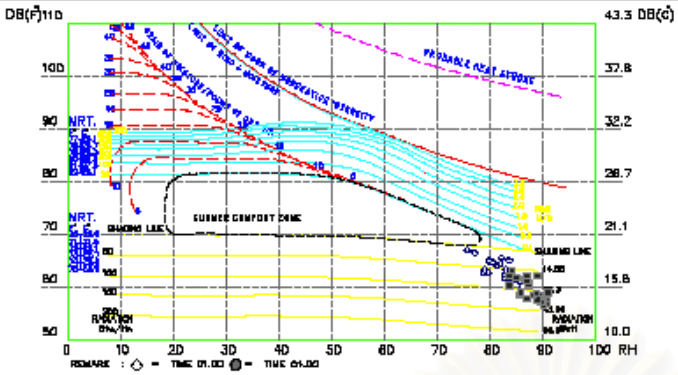
แผนภูมิค่าเฉลี่ยอัตราการระเหยของน้ำรายเดือน (average monthly evaporation from U.S. class “A” pan)

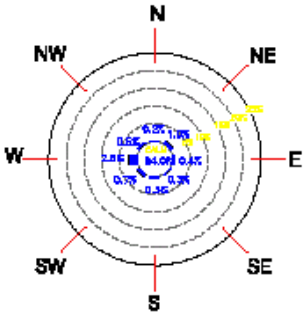


แผนภูมิความสัมพันธ์ระหว่างข้อมูลสภาวะอากาศในแผนภูมิไบโอไคลเมตริก (bioclimatic chart) กับแผนภูมิแสดงความถี่ของลมในแต่ละความเร็วและทิศทางที่เกิดลมรายเดือน (wind rose) แยกตามช่วงเวลา

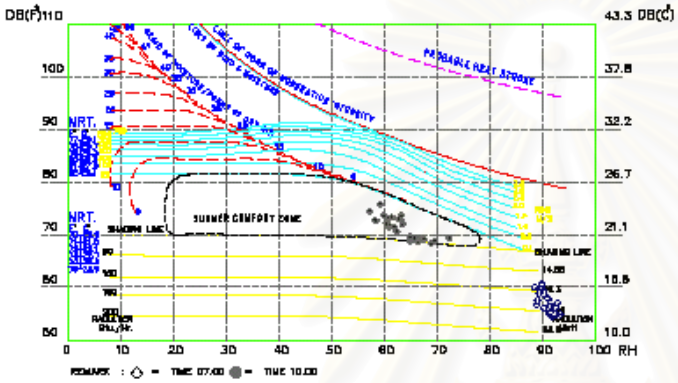


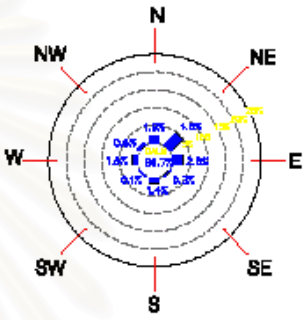
BIOCLIMATIC CHART & WIND ROSE : FEBRUARY 1951-1995 (2524-2541) Station : CHIANG RAI



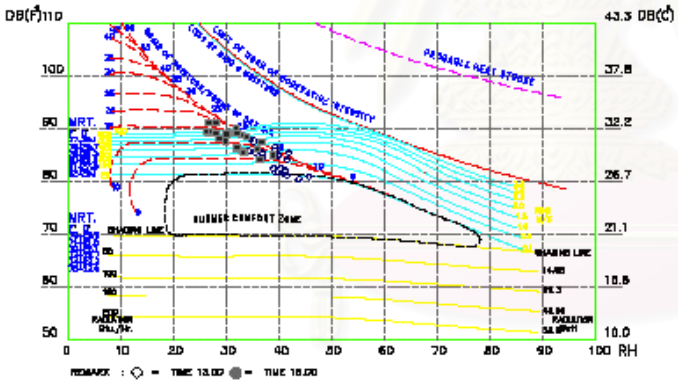


TIME : 01.00 - 06.00

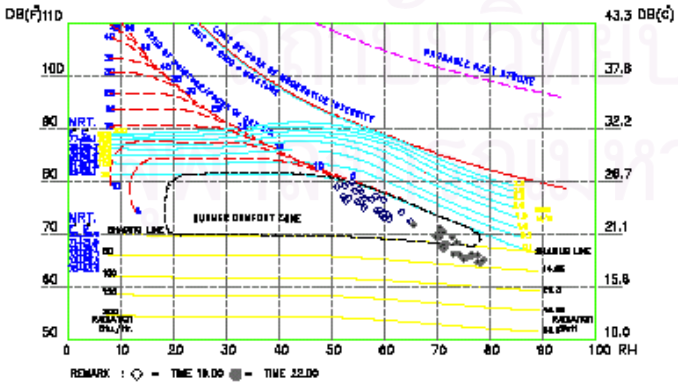


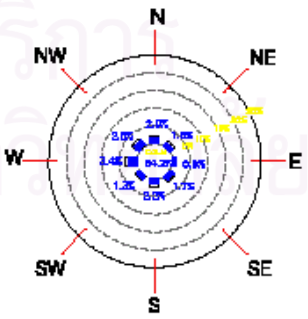


TIME : 07.00 - 12.00



TIME : 13.00 - 18.00



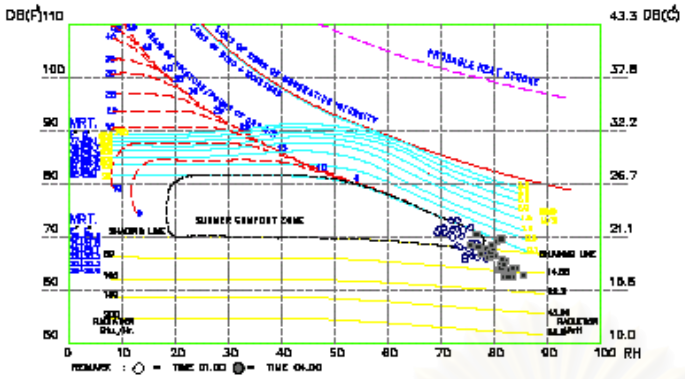


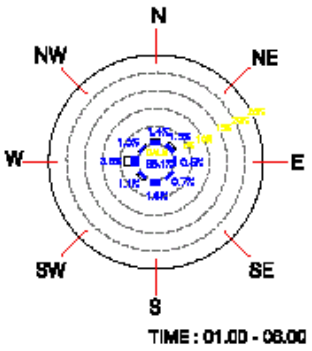
TIME : 19.00 - 24.00

BIOCLIMATIC CHART

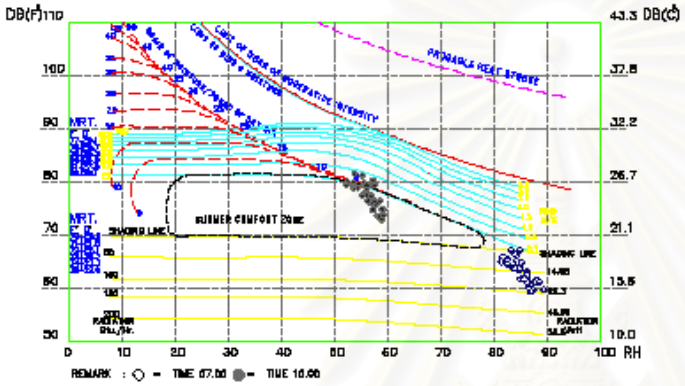
WIND ROSE

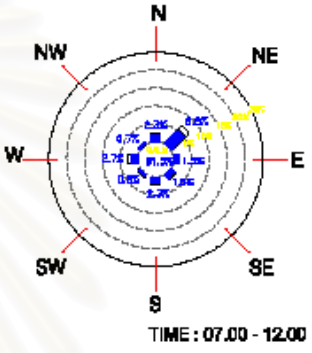
BIOCLIMATIC CHART & WIND ROSE : MARCH 1981-1998 (2524-2541) **Station : CHIANG RAI**



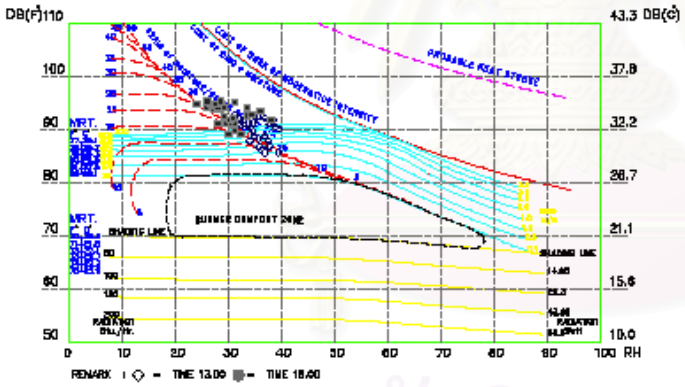


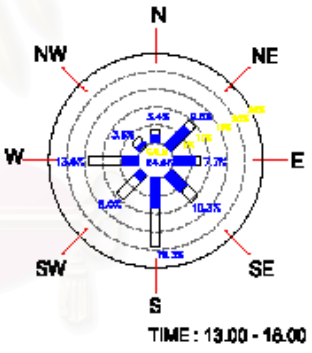
TIME : 01.00 - 06.00



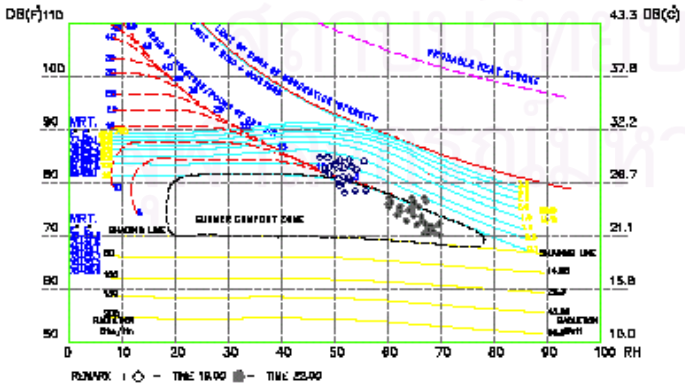


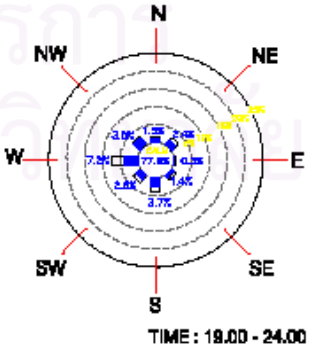
TIME : 07.00 - 12.00





TIME : 13.00 - 18.00



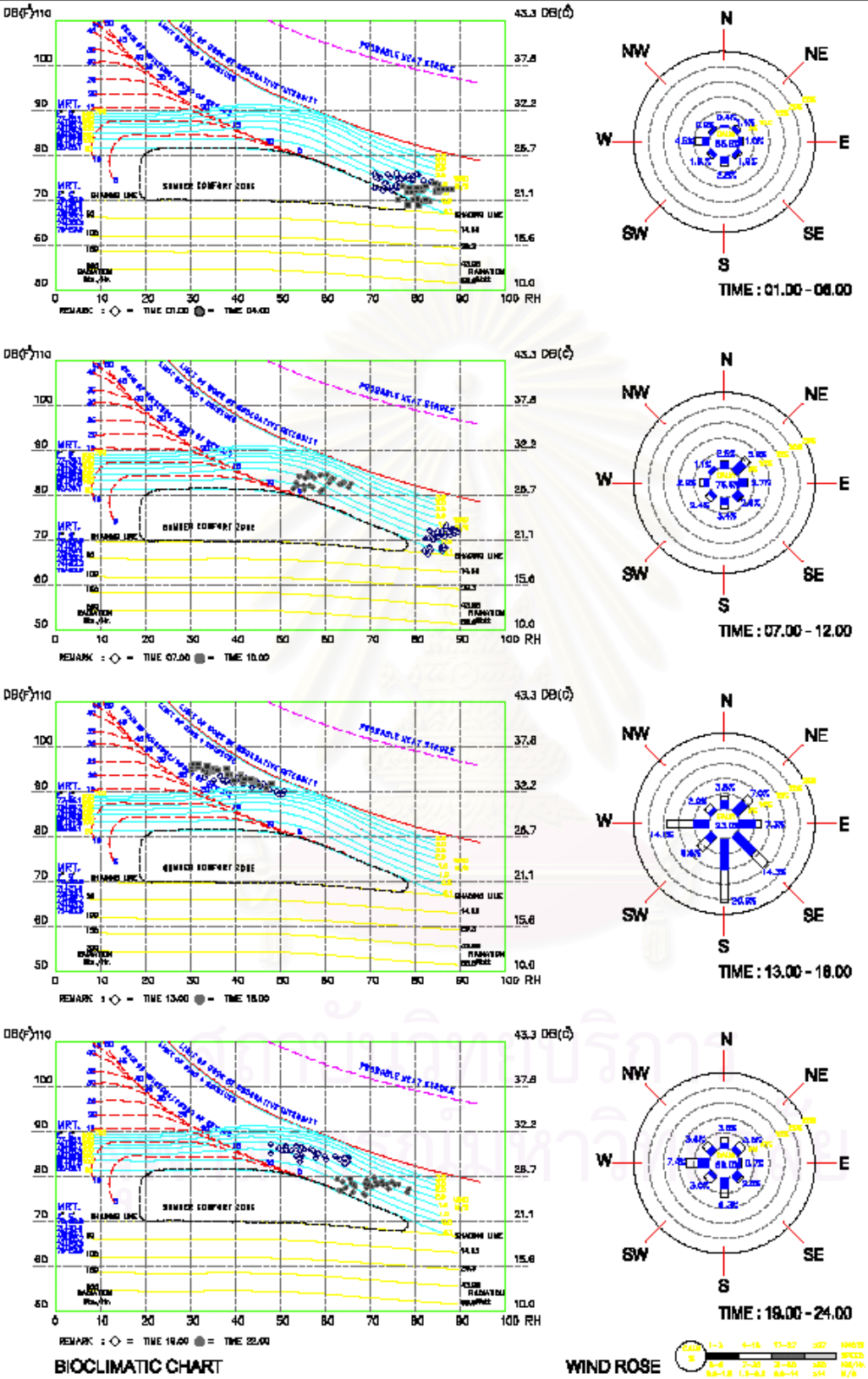


TIME : 19.00 - 24.00

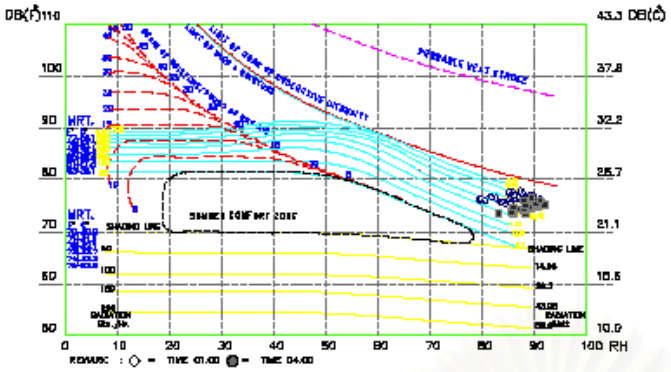
BIOCLIMATIC CHART

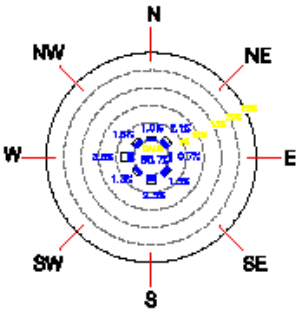
WIND ROSE

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

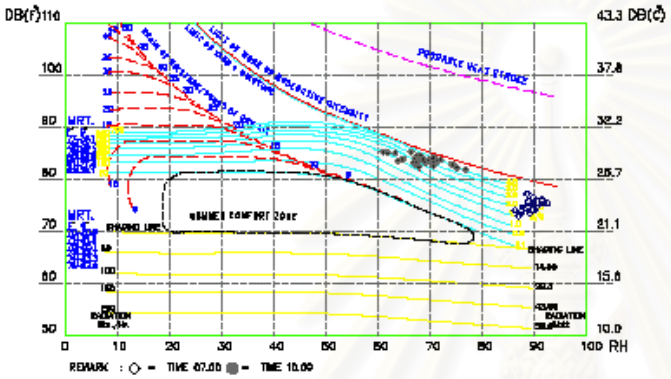


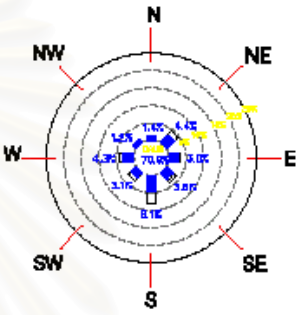
BIOCLIMATIC CHART & WIND ROSE : MAY **1981-1998 (2524-2541)** **Station : CHIANG RAI**



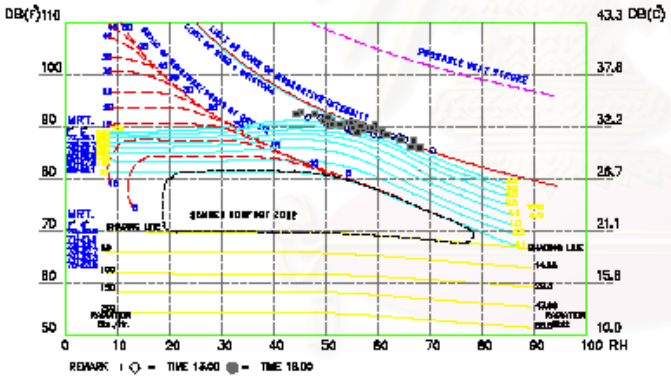


TIME : 01.00 - 06.00

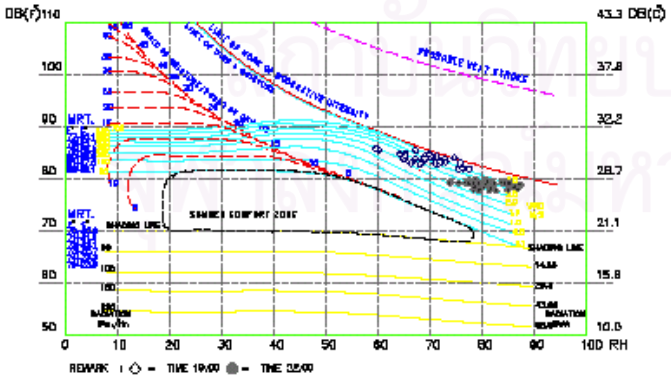


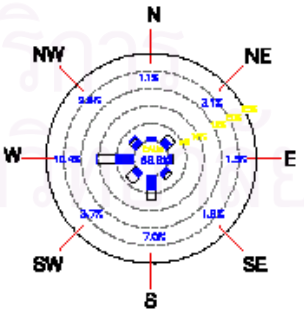


TIME : 07.00 - 12.00



TIME : 13.00 - 18.00



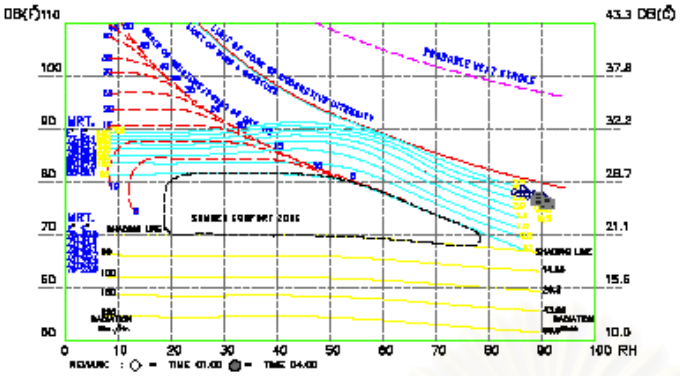


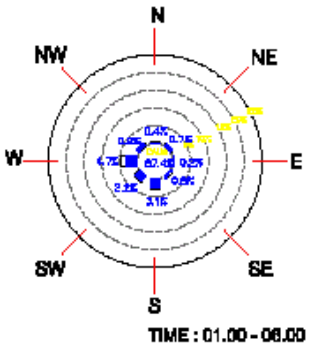
TIME : 19.00 - 24.00

BIOCLIMATIC CHART

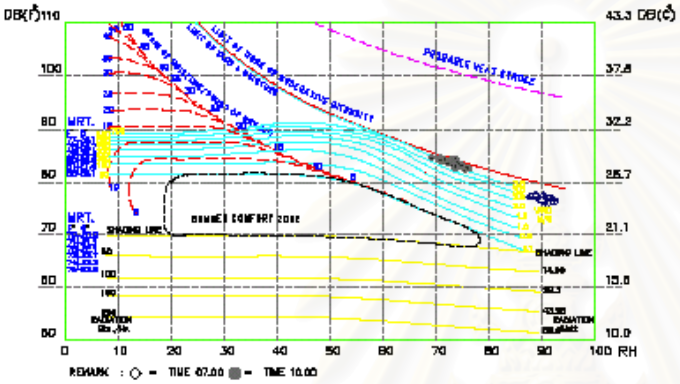
WIND ROSE

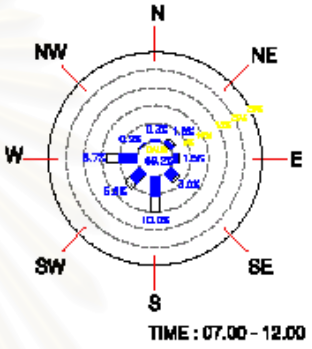
BIOCLIMATIC CHART & WIND ROSE : JUNE 1981-1998 (2524-2541) **Station : CHIANG RAI**



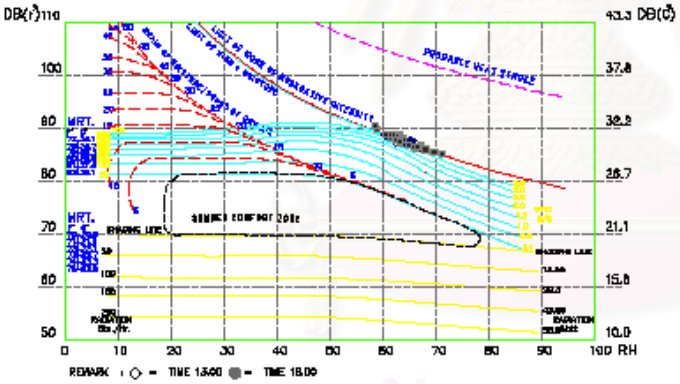


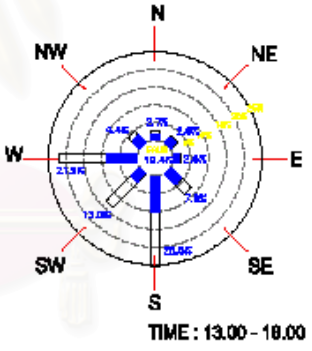
TIME : 01.00 - 06.00



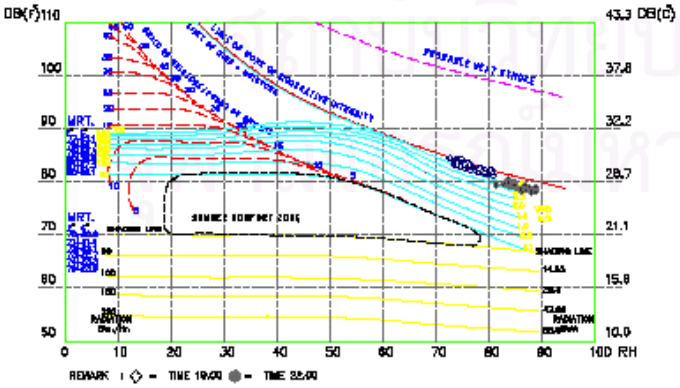


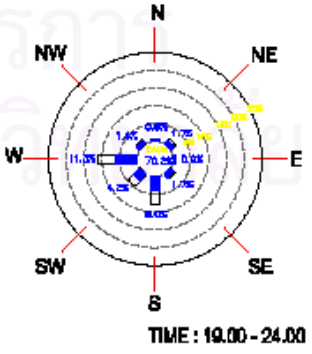
TIME : 07.00 - 12.00





TIME : 13.00 - 18.00

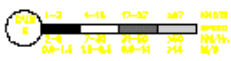




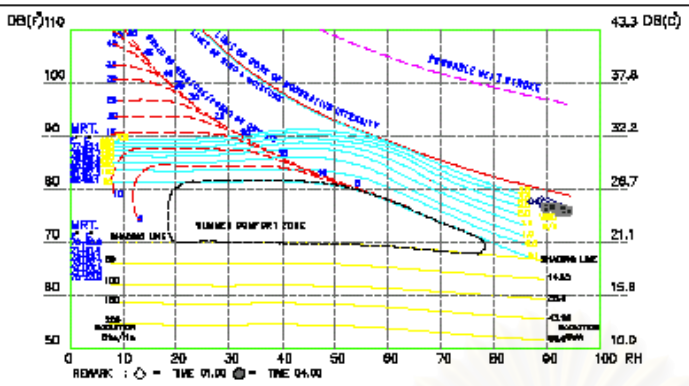
TIME : 19.00 - 24.00

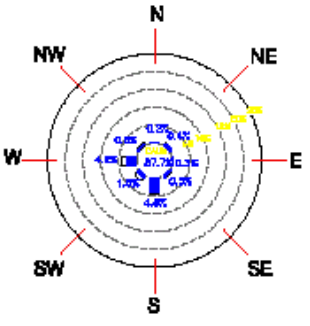
BIOCLIMATIC CHART

WIND ROSE

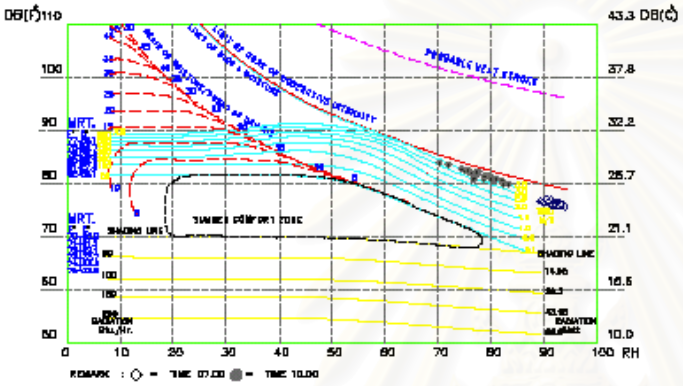


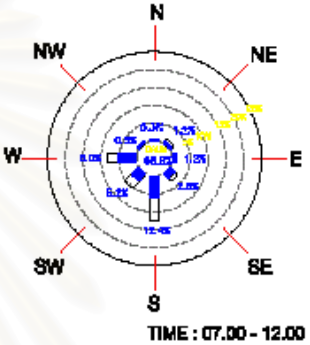
BIOCLIMATIC CHART & WIND ROSE : JULY 1981-1998 (2524-2541) Station : CHIANG RAI



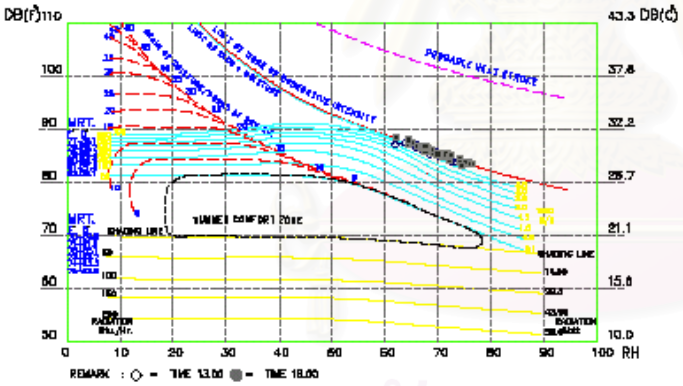


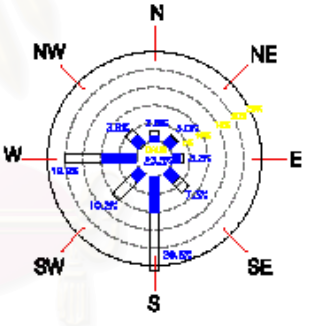
TIME : 01.00 - 06.00



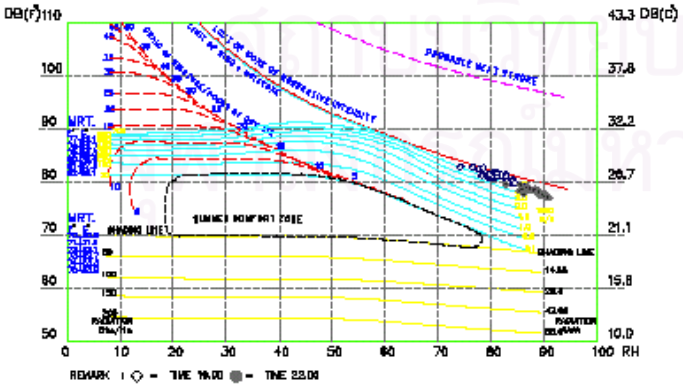


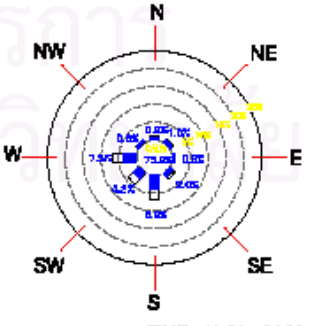
TIME : 07.00 - 12.00





TIME : 13.00 - 18.00

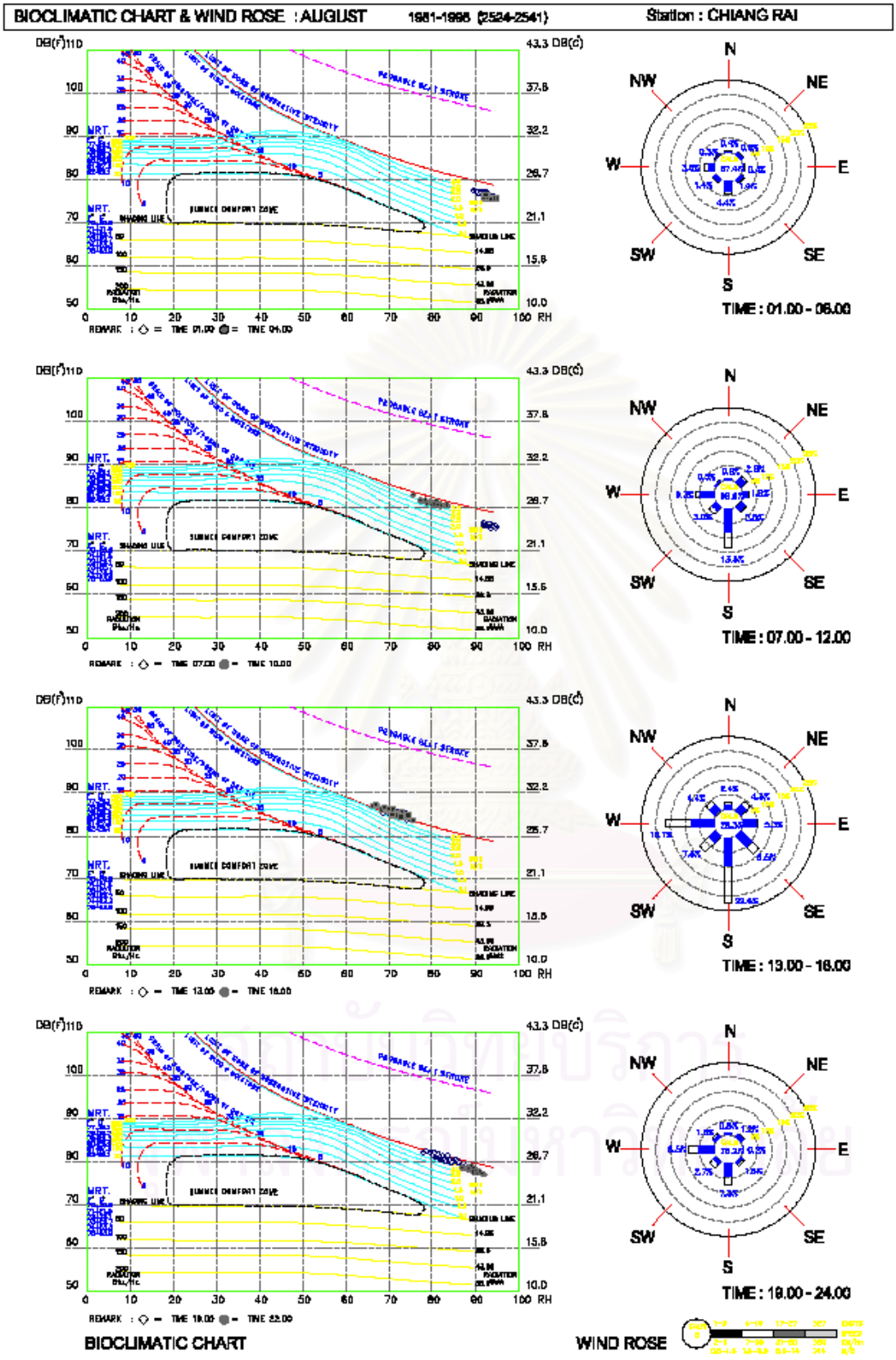




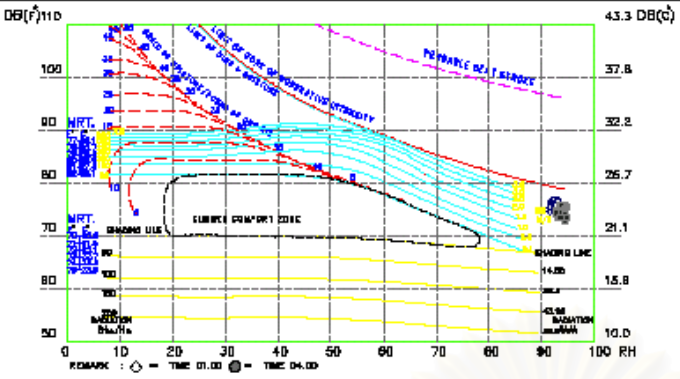
TIME : 19.00 - 24.00

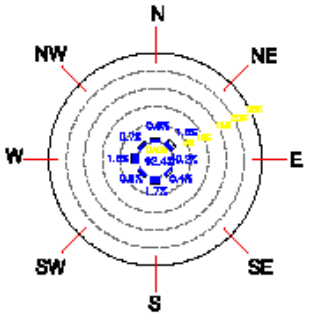
BIOCLIMATIC CHART

WIND ROSE

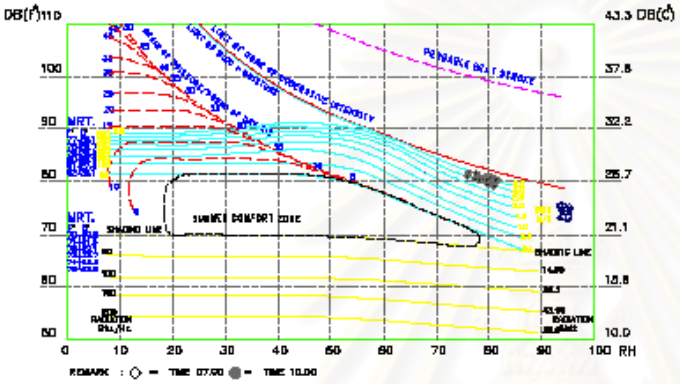

BIOCLIMATIC CHART & WIND ROSE : AUGUST 1981-1998 (2524-2541) Station : CHIANG RAI
DB(F) 110
43.3 DB(C)
37.8
32.2
26.7
21.1
15.6
10.0
100 RH
N
NW
NE
W
E
SW
SE
S
TIME : 01.00 - 06.00
TIME : 07.00 - 12.00
TIME : 13.00 - 18.00
TIME : 19.00 - 24.00
BIOCLIMATIC CHART
WIND ROSE

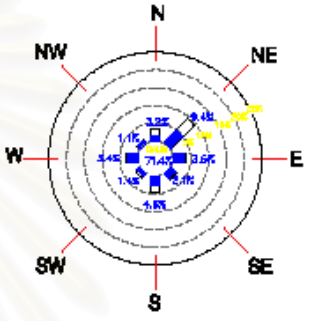
BIOCLIMATIC CHART & WIND ROSE : SEPTEMBER 1981-1998 (2524-2541) Station : CHIANG RAI



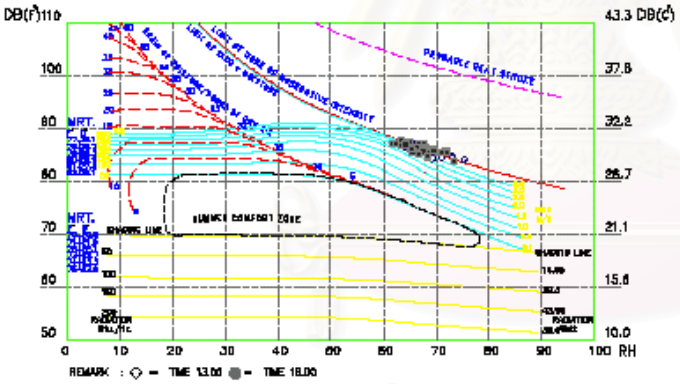


TIME : 01.00 - 06.00

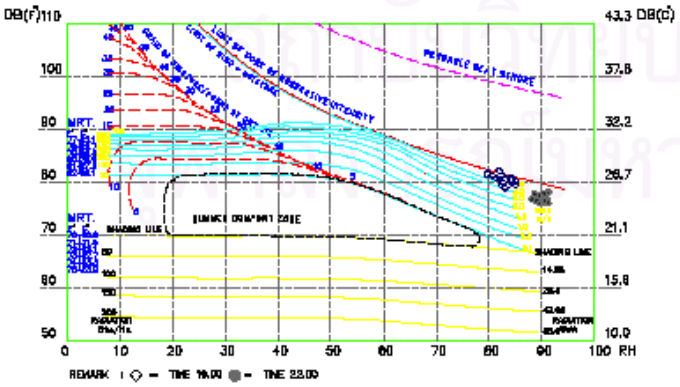


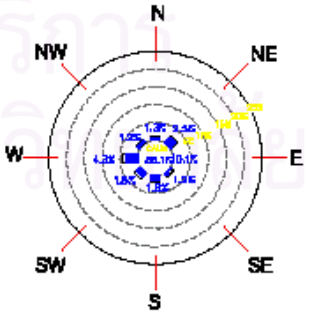


TIME : 07.00 - 12.00



TIME : 13.00 - 18.00



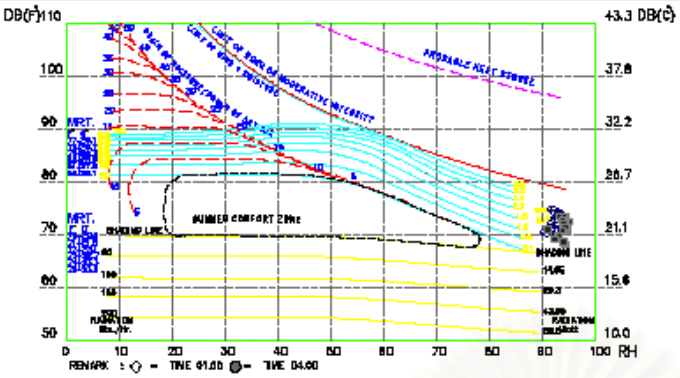


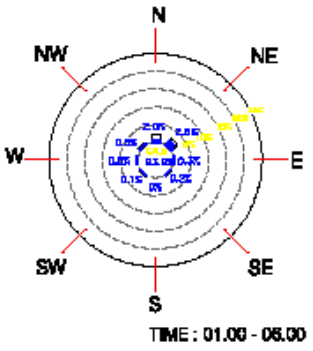
TIME : 18.00 - 24.00

BIOCLIMATIC CHART

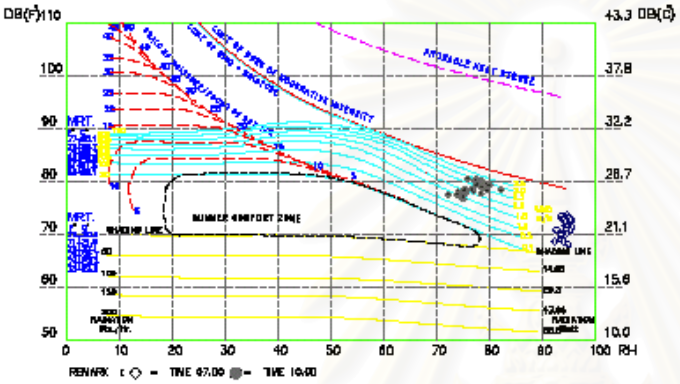
WIND ROSE

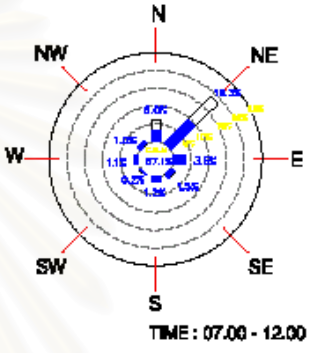
BIOCLIMATIC CHART & WIND ROSE : OCTOBER 1981-1998 (2524-2541) Station : CHIANG RAI



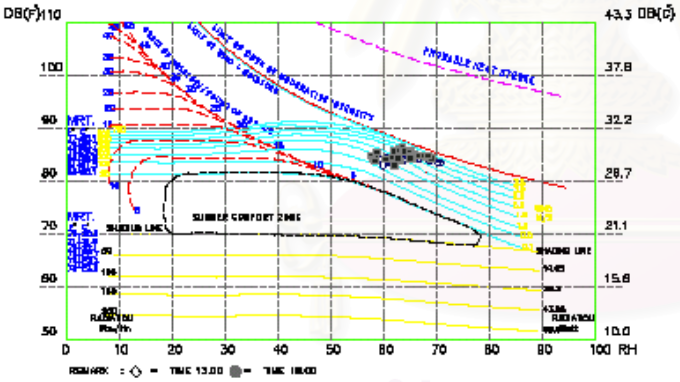


TIME : 01.00 - 06.00

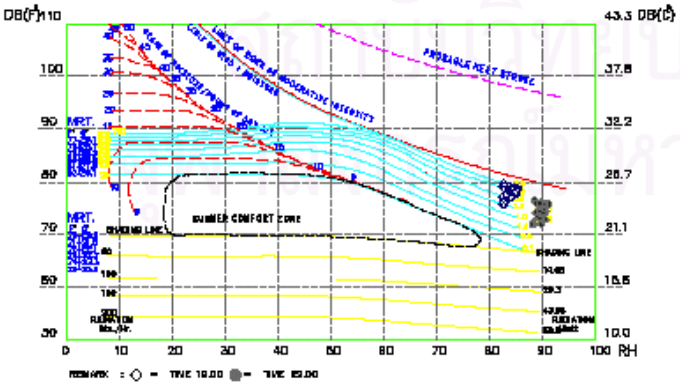


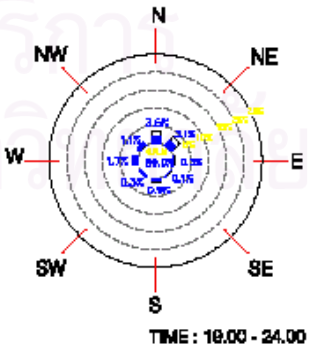


TIME : 07.00 - 12.00



TIME : 13.00 - 18.00



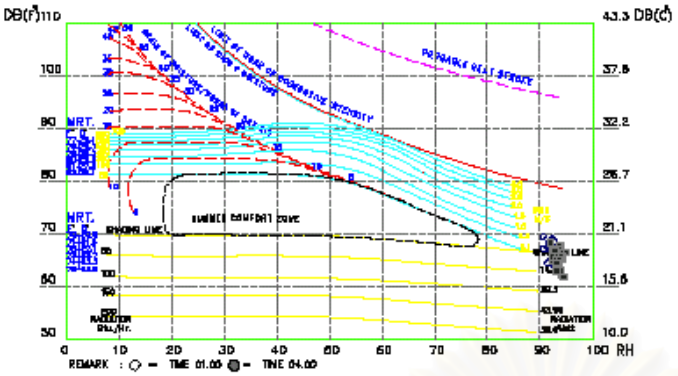


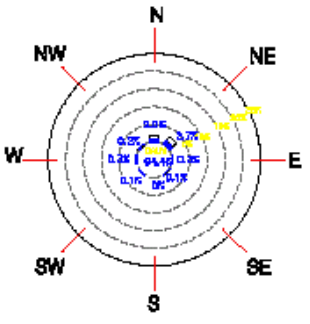
TIME : 19.00 - 24.00

BIOCLIMATIC CHART

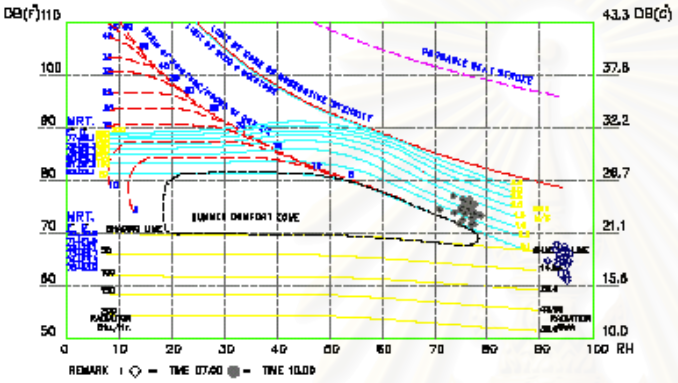
WIND ROSE

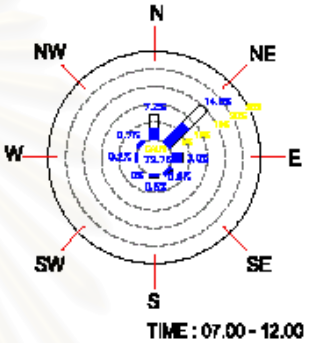
BIOCLIMATIC CHART & WIND ROSE : NOVEMBER 1981-1998 (2524-2541) Station : CHIANG RAI



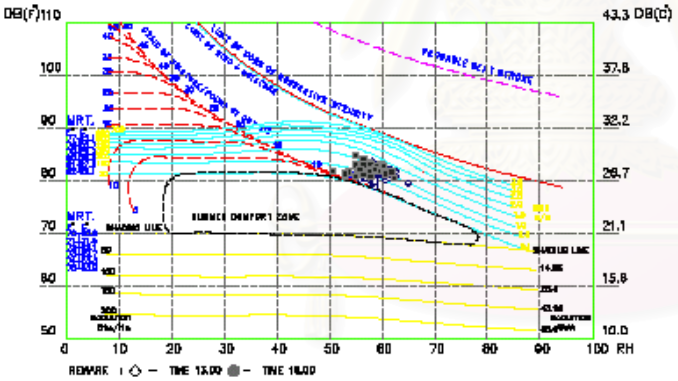


TIME : 01.00 - 06.00

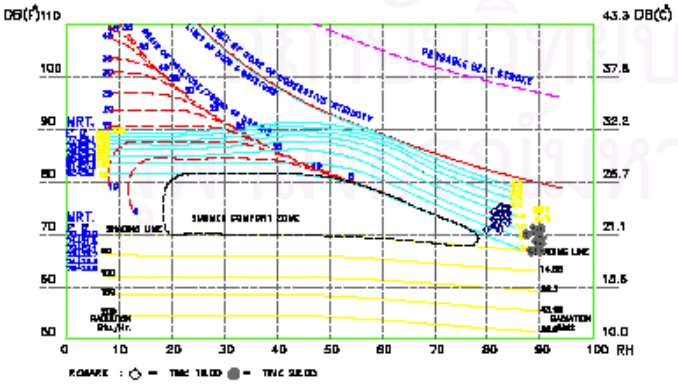




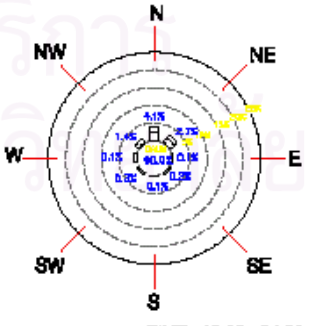
TIME : 07.00 - 12.00



TIME : 13.00 - 18.00



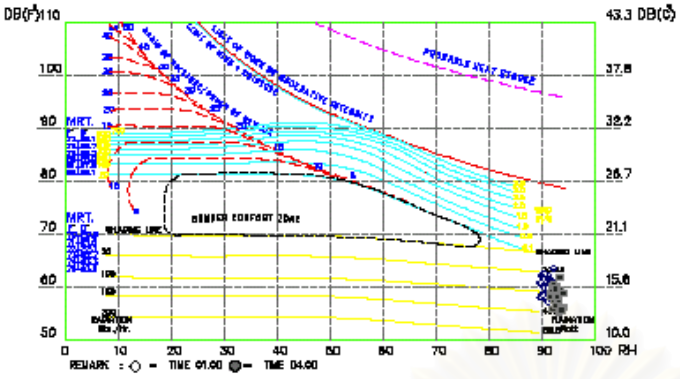
BIOCLIMATIC CHART

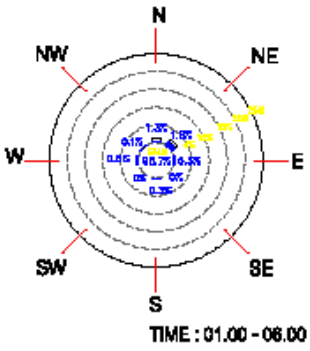


TIME : 19.00 - 24.00

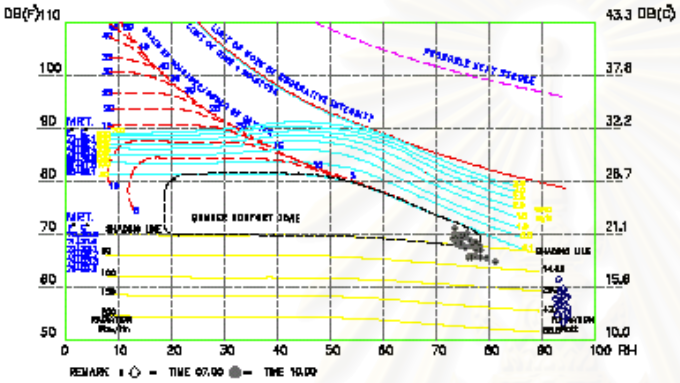
WIND ROSE

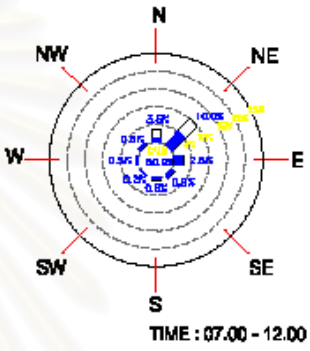
BIOCLIMATIC CHART & WIND ROSE : DECEMBER 1961-1990 (2524-2541) Station : CHIANG RAI



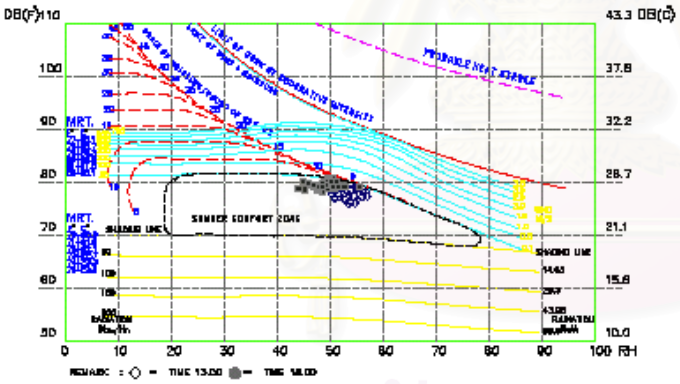


TIME : 01.00 - 06.00

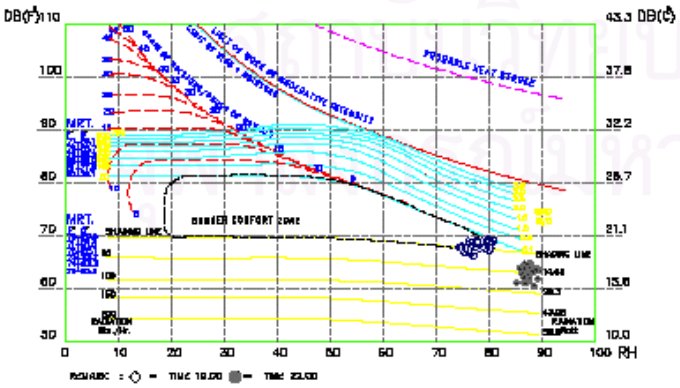


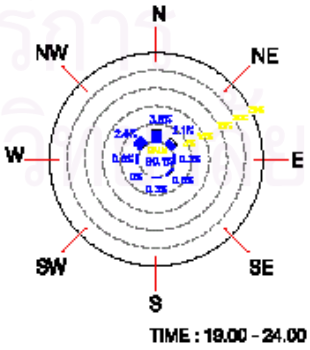


TIME : 07.00 - 12.00



TIME : 13.00 - 18.00



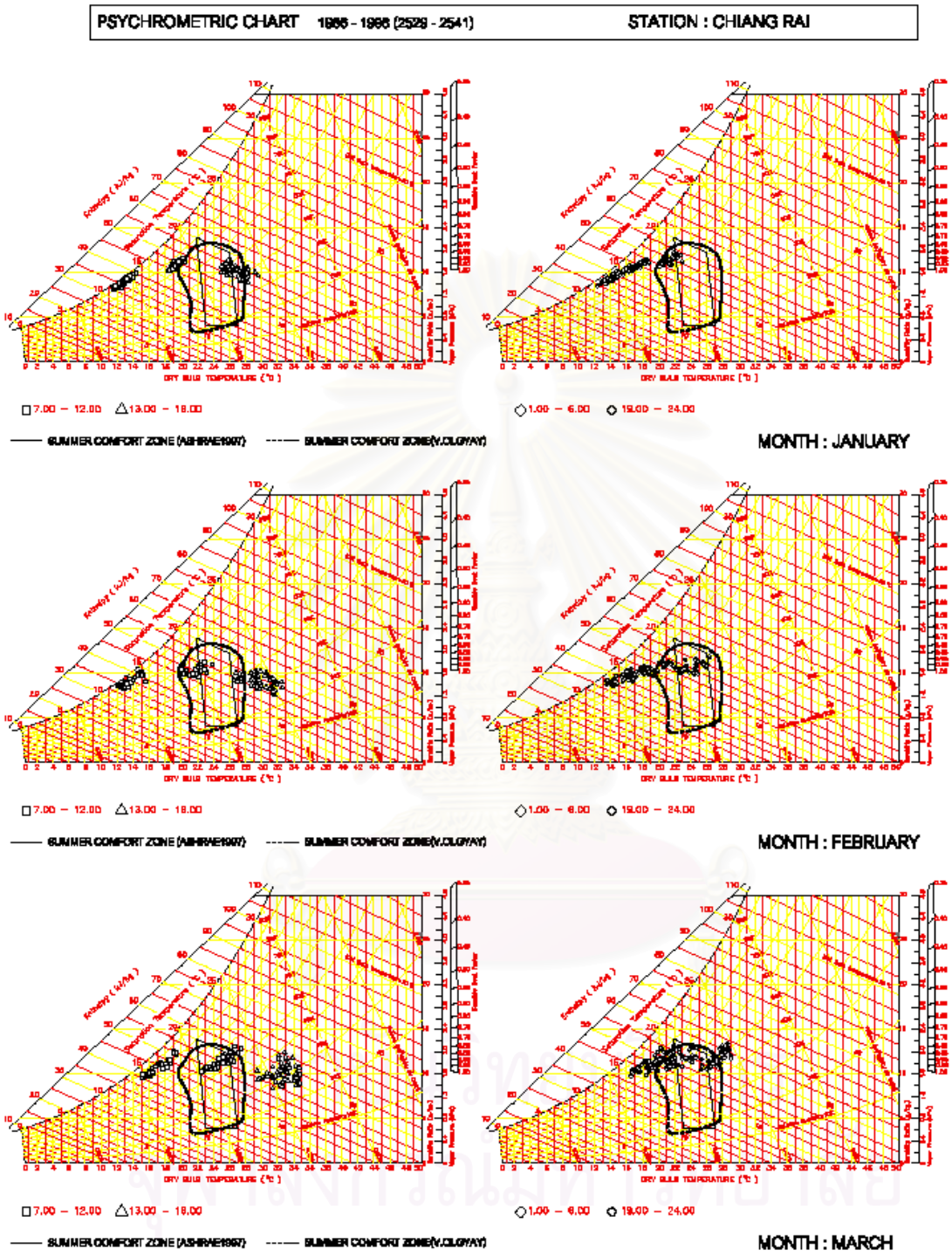


TIME : 19.00 - 24.00

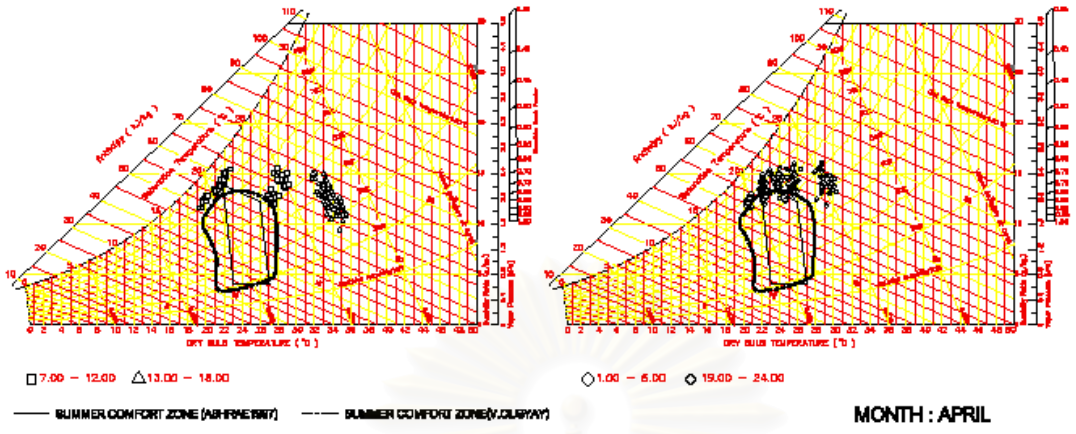
BIOCLIMATIC CHART

WIND ROSE

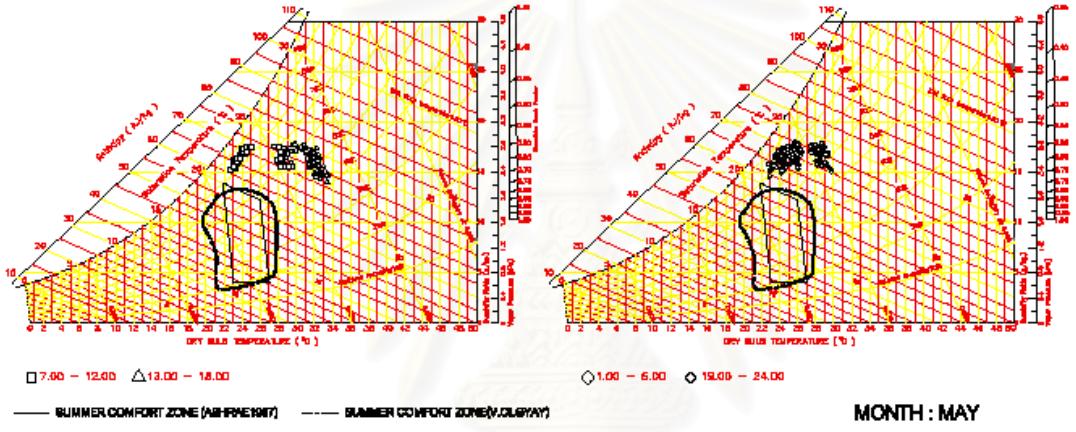
แผนภูมิความสัมพันธ์ระหว่างข้อมูลสภาวะอากาศ ในแผนภูมิไซโครเมตริก (psychromatric chart) แยกตามช่วงเวลา



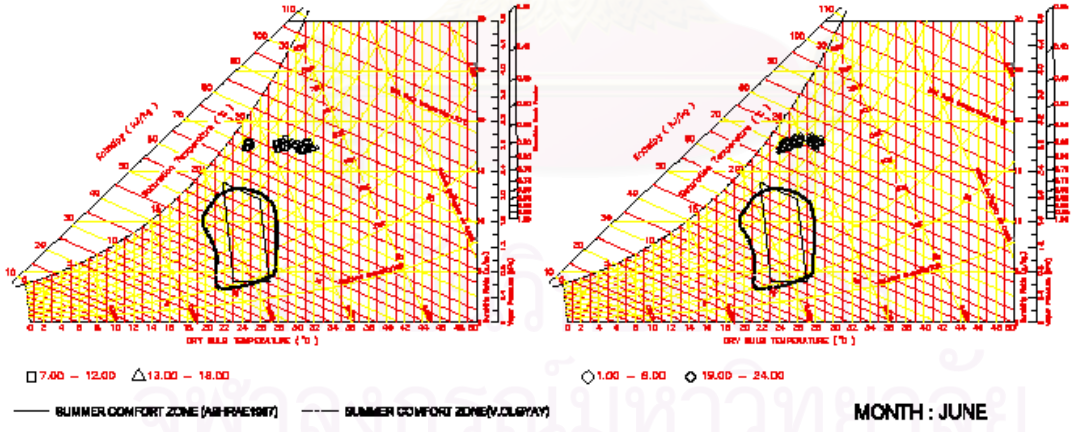
PSYCHROMETRIC CHART 1995 - 1998 (2528 - 2541) STATION : CHIANG RAI



MONTH : APRIL

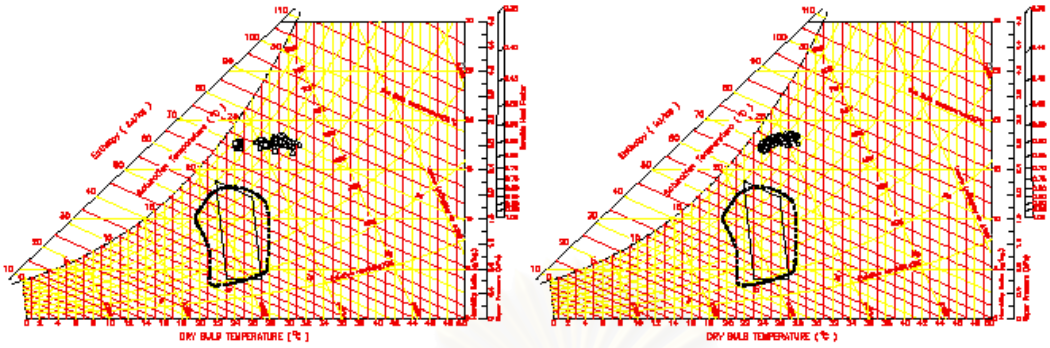


MONTH : MAY

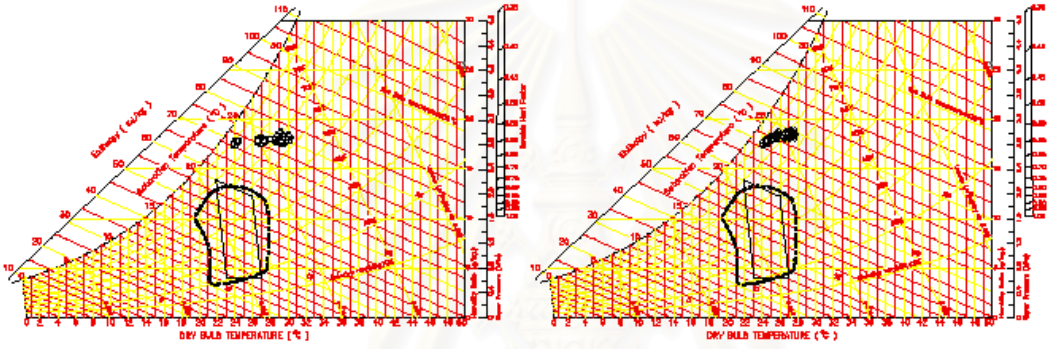


MONTH : JUNE

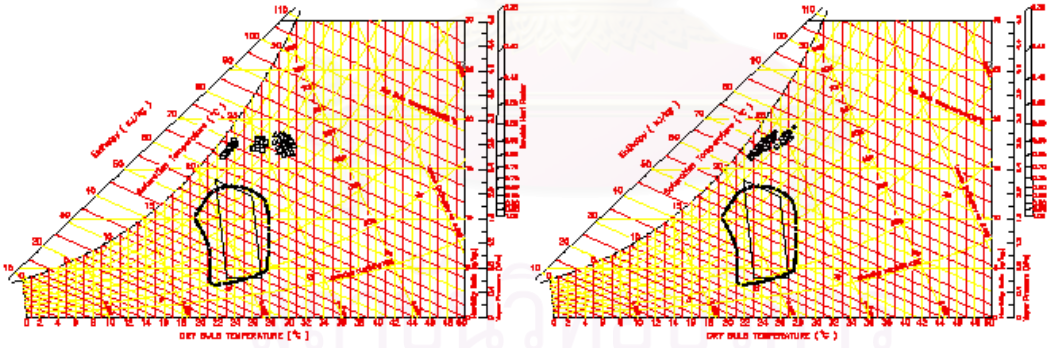
PSYCHROMETRIC CHART 1968 - 1998 (2529 - 2541) STATION : CHIANG RAI



MONTH : JULY

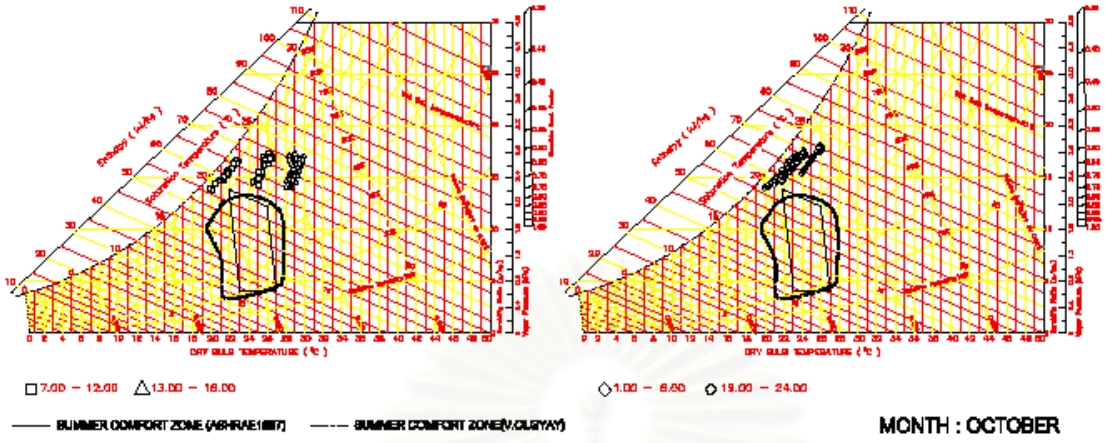


MONTH : AUGUST

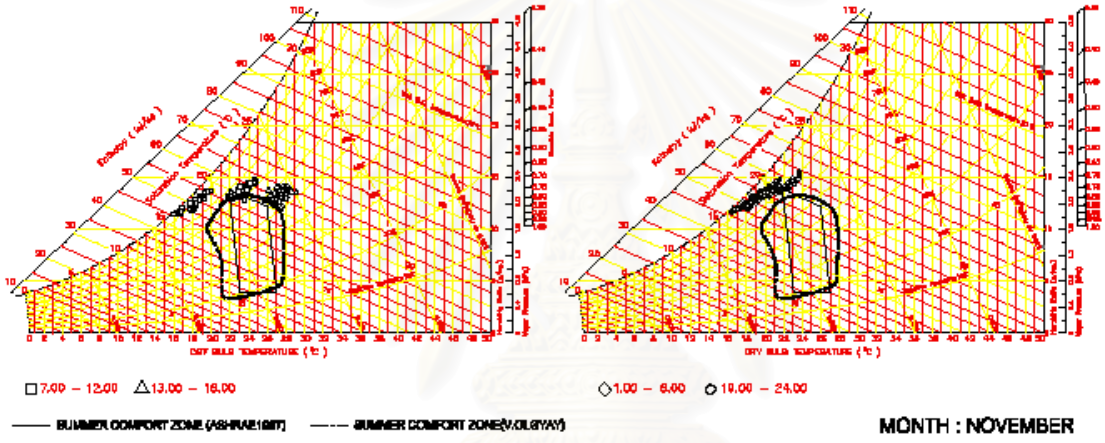


MONTH : SEPTEMBER

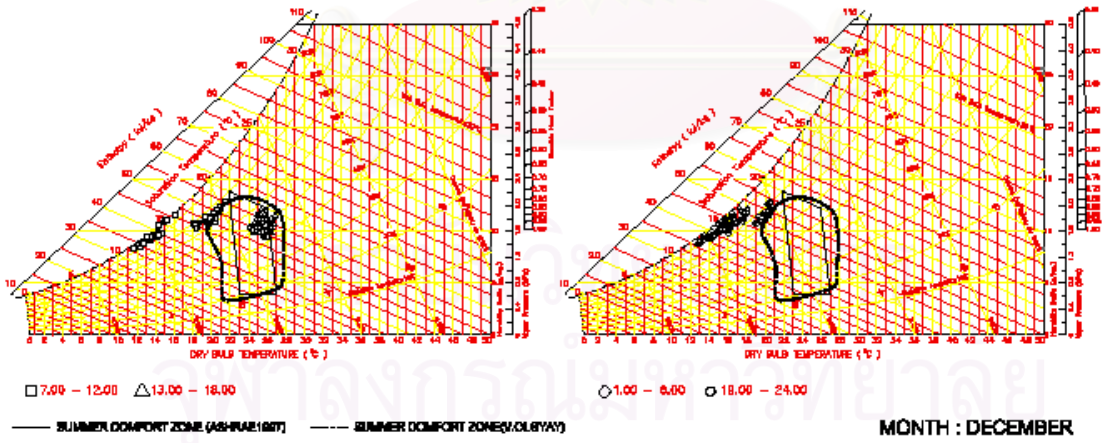
PSYCHROMETRIC CHART 1986 - 1995 (2529 - 2541) STATION : CHIANG RAI



MONTH : OCTOBER



MONTH : NOVEMBER



MONTH : DECEMBER

ตารางแสดงผลข้อมูลจำนวนรายชั่วโมงอุณหภูมิกระเปาะแห้ง และค่าเฉลี่ยอุณหภูมิกระเปาะเปียกที่เกิดขึ้น จำแนกตามช่วงอุณหภูมิกระเปาะแห้ง (bin data) ในแต่ละช่วงเวลา

ANNUAL BIN-HOUR WEATHER DATA year : 1996 **STATION : CHIANG RAI**

Hours of occurrence of DB in each bin with MCWB in parentheses

Temperature range	Observation hour group						Total Observation	MCWB	Temperature range
	01:00 to 04:00	05:00 to 08:00	09:00 to 12:00	13:00 to 16:00	17:00 to 20:00	21:00 to 24:00			
°C	Annual								°F
	DB MCWB	DB MCWB	DB MCWB	DB MCWB	DB MCWB	DB MCWB	Total	MCWB	
40.6 / 42.8									105 / 109
37.8 / 40.0				6 (24.5)			6	(24.5)	100 / 104
35.0 / 37.2			3 (24.7)	80 (24.0)	12 (22.5)		95	(23.7)	95 / 99
32.2 / 34.4			21 (23.7)	216 (24.3)	72 (24.8)		309	(24.3)	90 / 94
29.4 / 31.7			188 (24.4)	498 (23.5)	254 (23.9)	10 (24.0)	950	(24.0)	85 / 89
26.7 / 28.9	13 (24.1)	14 (24.2)	439 (23.1)	420 (22.5)	450 (22.9)	177 (23.9)	1,513	(23.5)	80 / 84
23.9 / 26.1	535 (22.7)	507 (22.8)	426 (21.7)	203 (21.9)	413 (21.9)	629 (22.8)	2,713	(22.3)	75 / 79
21.1 / 23.3	400 (21.2)	364 (21.4)	192 (19.9)	28 (19.0)	163 (19.7)	255 (20.9)	1,402	(20.3)	70 / 74
18.3 / 20.6	172 (18.2)	193 (18.2)	117 (17.4)	11 (18.4)	79 (17.1)	180 (17.8)	752	(17.8)	65 / 69
15.6 / 17.8	136 (15.7)	144 (15.8)	65 (14.8)	2 (16.4)	18 (15.1)	144 (15.3)	509	(15.5)	60 / 64
12.8 / 15.0	155 (12.9)	126 (13.3)	9 (13.0)		1 (12.1)	57 (13.2)	348	(12.9)	55 / 59
10.0 / 12.2	42 (11.2)	102 (10.9)	2 (10.4)			6 (10.1)	152	(10.6)	50 / 54
7.2 / 9.4	9 (8.0)	10 (7.9)					19	(8.0)	45 / 49
4.4 / 6.7		2 (6.2)					2	(6.2)	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 RAI**

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	**January**							
40.6 / 42.8								
37.8 / 40.0								
35.0 / 37.2								
32.2 / 34.4								
29.4 / 31.7				23 (19.3)			23	(19.3)
26.7 / 28.9				73 (19.6)	21 (18.9)		94	(19.0)
23.9 / 26.1			19 (18.1)	23 (17.9)	30 (18.3)		72	(18.1)
21.1 / 23.3			33 (17.2)	5 (14.8)	39 (17.3)	2 (16.4)	79	(16.9)
18.3 / 20.6			32 (16.1)		26 (16.0)	27 (16.4)	87	(16.2)
15.6 / 17.8	16 (15.4)	7 (15.2)	31 (14.3)		5 (14.1)	57 (14.8)	116	(14.7)
12.8 / 15.0	67 (12.6)	29 (12.7)	6 (12.7)		1 (12.1)	22 (13.1)	145	(12.8)
10.0 / 12.2	22 (11.0)	66 (10.6)	2 (10.4)			6 (10.1)	106	(10.5)
7.2 / 9.4	9 (8.0)	10 (7.9)					19	(8.0)
4.4 / 6.7		2 (6.2)					2	(6.2)
1.7 / 3.9								
°C	**April**							
40.6 / 42.8								
37.8 / 40.0				6 (24.5)			6	(24.5)
35.0 / 37.2			3 (24.7)	44 (22.6)	11 (23.2)		58	(23.0)
32.2 / 34.4			13 (23.5)	37 (23.7)	28 (23.0)		78	(23.4)
29.4 / 31.7			31 (22.9)	14 (23.7)	27 (23.0)	5 (23.3)	87	(23.2)
26.7 / 28.9	5 (22.0)	2 (23.0)	32 (22.4)	7 (22.8)	23 (22.4)	37 (22.3)	106	(22.5)
23.9 / 26.1	40 (21.8)	30 (21.9)	26 (21.3)	7 (21.9)	12 (22.0)	54 (21.5)	169	(21.7)
21.1 / 23.3	61 (20.3)	57 (20.6)	12 (20.4)	5 (20.3)	9 (20.6)	24 (20.7)	168	(20.5)
18.3 / 20.6	14 (17.9)	27 (17.7)	3 (19.6)				44	(18.4)
15.6 / 17.8		3 (16.3)					3	(16.3)
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	**February**							
40.6 / 42.8								
37.8 / 40.0								
35.0 / 37.2				13 (20.0)			13	(20.0)
32.2 / 34.4				30 (20.3)	9 (19.5)		39	(20.1)
29.4 / 31.7			9 (19.7)	27 (19.3)	19 (19.8)		55	(19.6)
26.7 / 28.9			17 (18.7)	24 (18.3)	33 (18.6)		74	(18.5)
23.9 / 26.1	4 (19.2)		33 (17.6)	11 (17.5)	29 (17.7)	15 (18.0)	92	(18.0)
21.1 / 23.3	16 (17.3)	14 (17.8)	40 (16.5)	9 (17.2)	21 (17.4)	56 (16.9)	156	(17.2)
18.3 / 20.6	46 (15.6)	43 (15.6)	37 (15.0)	2 (16.4)	4 (16.5)	43 (15.0)	157	(15.7)
15.6 / 17.8	46 (13.0)	40 (12.6)				2 (13.3)	88	(13.0)
12.8 / 15.0	2 (11.1)	19 (11.2)					21	(11.2)
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				6 (25.3)			6	(25.3)
32.2 / 34.4			5 (25.7)	52 (25.5)	21 (25.5)		78	(25.6)
29.4 / 31.7			48 (24.9)	40 (25.1)	41 (25.1)	5 (24.8)	134	(25.0)
26.7 / 28.9	5 (23.9)	7 (24.1)	52 (24.2)	23 (24.4)	43 (24.4)	50 (24.3)	180	(24.3)
23.9 / 26.1	99 (23.2)	96 (23.2)	15 (23.1)	3 (23.5)	19 (23.9)	67 (23.5)	299	(23.4)
21.1 / 23.3	21 (21.7)	21 (21.8)	4 (21.8)			2 (21.4)	48	(21.7)
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 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	**March**								°F
40.6 / 42.8									105 / 109
37.8 / 40.0									100 / 104
35.0 / 37.2				29 (22.3)	1 (21.7)		30	(22.0)	95 / 99
32.2 / 34.4			3 (21.8)	52 (21.7)	16 (22.5)		71	(22.1)	90 / 94
29.4 / 31.7			20 (22.0)	32 (21.3)	45 (21.7)		97	(21.7)	85 / 89
26.7 / 28.9			31 (20.8)	11 (20.8)	44 (21.2)	7 (21.9)	93	(21.2)	80 / 84
23.9 / 26.1	2 (19.5)	1 (21.2)	39 (20.2)		18 (19.9)	49 (20.4)	109	(20.2)	75 / 79
21.1 / 23.3	49 (19.5)	21 (19.4)	24 (18.8)			49 (19.1)	143	(19.2)	70 / 74
18.3 / 20.6	48 (17.7)	58 (17.9)	7 (16.4)			17 (16.9)	130	(17.2)	65 / 69
15.6 / 17.8	25 (15.2)	32 (15.2)				1 (15.5)	58	(15.3)	60 / 64
12.8 / 15.0		12 (13.6)					12	(13.6)	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	**June**								°F
40.6 / 42.8									105 / 109
37.8 / 40.0									100 / 104
35.0 / 37.2									95 / 99
32.2 / 34.4				22 (25.5)	3 (25.7)		25	(25.6)	90 / 94
29.4 / 31.7			26 (25.1)	70 (25.1)	39 (25.2)		137	(25.2)	85 / 89
26.7 / 28.9			71 (24.4)	23 (24.2)	56 (24.6)	29 (24.2)	179	(24.4)	80 / 84
23.9 / 26.1	97 (23.4)	105 (23.5)	21 (23.7)	5 (23.6)	22 (23.8)	67 (23.6)	327	(23.6)	75 / 79
21.1 / 23.3	23 (22.5)	15 (22.4)				3 (22.6)	41	(22.5)	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

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 RAI**

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				10 (25.0)	2 (26.5)		12	(26.2)
29.4 / 31.7			20 (25.4)	54 (25.5)	25 (25.4)		99	(25.4)
26.7 / 28.9	1 (25.3)	4 (24.6)	46 (24.6)	40 (24.7)	46 (24.9)	26 (24.9)	163	(24.9)
23.9 / 26.1	107 (22.7)	103 (22.6)	58 (23.7)	20 (23.9)	49 (23.8)	90 (23.9)	427	(23.6)
21.1 / 23.3	16 (22.7)	16 (22.6)			2 (21.9)	8 (22.5)	42	(22.4)
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				2 (24.6)			2	(24.6)
29.4 / 31.7			7 (24.0)	78 (24.1)	10 (24.1)		95	(24.1)
26.7 / 28.9			58 (23.5)	34 (23.6)	50 (23.5)		142	(23.5)
23.9 / 26.1	20 (22.6)	14 (22.6)	53 (22.5)	10 (23.4)	61 (22.6)	60 (22.8)	218	(22.6)
21.1 / 23.3	68 (21.4)	91 (21.4)	6 (20.2)		3 (21.6)	63 (21.4)	231	(21.2)
18.3 / 20.6	16 (19.3)	19 (19.0)				1 (19.5)	36	(19.3)
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				2 (26.1)			2	(26.1)
29.4 / 31.7			11 (25.4)	52 (25.6)	19 (25.8)		82	(25.6)
26.7 / 28.9			53 (24.6)	44 (24.6)	52 (24.9)	15 (24.9)	164	(24.8)
23.9 / 26.1	90 (23.6)	82 (23.5)	53 (23.5)	26 (23.4)	53 (23.7)	101 (23.8)	405	(23.6)
21.1 / 23.3	34 (22.2)	42 (22.1)	7 (22.3)			5 (22.5)	88	(22.3)
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				36 (22.1)	1 (22.7)		37	(22.4)
26.7 / 28.9			23 (23.0)	71 (22.1)	26 (22.6)		120	(22.6)
23.9 / 26.1	2 (22.9)	2 (22.7)	61 (21.5)	12 (22.5)	55 (22.0)	16 (22.5)	148	(22.4)
21.1 / 23.3	51 (21.3)	45 (21.2)	29 (20.0)	1 (22.5)	25 (19.9)	56 (20.9)	217	(21.0)
18.3 / 20.6	40 (18.4)	38 (18.4)	7 (18.3)		2 (18.1)	43 (18.5)	130	(18.4)
15.6 / 17.8	27 (16.4)	33 (16.5)				5 (16.5)	65	(16.5)
12.8 / 15.0		2 (14.4)					2	(14.4)
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				1 (25.7)			1	(25.7)	95 / 99
32.2 / 34.4				26 (25.6)	2 (25.9)		28	(25.6)	90 / 94
29.4 / 31.7			33 (25.3)	57 (25.5)	17 (25.5)		107	(25.5)	85 / 89
26.7 / 28.9	2 (25.2)	1 (25.2)	56 (24.6)	30 (24.5)	62 (24.8)	13 (24.9)	166	(24.8)	80 / 84
23.9 / 26.1	78 (23.5)	74 (23.4)	37 (23.5)	6 (23.7)	29 (23.8)	101 (23.7)	325	(23.6)	75 / 79
21.1 / 23.3	39 (22.2)	45 (22.1)	2 (22.5)			6 (22.4)	92	(22.3)	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									90 / 94
29.4 / 31.7				12 (23.4)	1 (23.5)		13	(23.4)	85 / 89
26.7 / 28.9			6 (22.6)	37 (20.1)	8 (22.3)		51	(21.7)	80 / 84
23.9 / 26.1	1 (22.1)		27 (20.5)	67 (18.5)	32 (20.1)	4 (22.2)	131	(20.7)	75 / 79
21.1 / 23.3	14 (20.5)	11 (20.2)	42 (18.5)	6 (19.0)	46 (18.6)	22 (20.3)	141	(19.7)	70 / 74
18.3 / 20.6	38 (18.4)	37 (18.5)	26 (17.3)	2 (19.5)	26 (16.7)	36 (18.4)	169	(18.1)	65 / 69
15.6 / 17.8	20 (15.9)	26 (15.7)	17 (15.1)		9 (14.8)	38 (14.9)	110	(15.3)	60 / 64
12.8 / 15.0	42 (13.1)	33 (13.0)	3 (12.2)			23 (13.3)	101	(13.2)	55 / 59
10.0 / 12.2	8 (11.2)	17 (11.0)					25	(11.2)	50 / 54
7.2 / 9.4									45 / 49
4.4 / 6.7									40 / 44
1.7 / 3.9									35 / 39

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

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

ตารางแสดงผลข้อมูลปริมาณองศาชั่วโมง การทำความร้อนและการทำความเย็น (degree hours and hours of occurrence)

DEGREE HOURS & HOURS OF OCCURRENCE **Station : CHIANG RAI**

YEARS : 1981 - 1998 (2524-2541)

TEMPERATURE Degree		MEAN TEMP.DEGREE (°F)	NO. OF HOURS	NO. OF DEGREE HOURS OF HEATING BELOW TEMPERATURE		NO. OF HOURS	NO. OF DEGREE HOURS OF COOLING ABOVE TEMPERATURE	
°F	°C	HOURS OF OCCURRENCE	BELOW TEMPERATURE	°F	°C	ABOVE TEMPERATURE	°F	°C
35	1.7	(37.5)	-	-	-	8,760.00	362,491.80	201,182.95
36	2.2		-	-	-	8,760.00	353,731.80	196,321.15
37	2.8	0	-	-	-	8,760.00	344,971.80	191,459.35
38	3.3		-	-	-	8,760.00	336,211.80	186,597.55
39	3.9		-	-	-	8,760.00	327,451.80	181,735.75
40	4.4	(42.5)	-	-	-	8,760.00	318,691.80	176,873.95
41	5.0		-	-	-	8,760.00	309,931.80	172,012.15
42	5.6	0	-	-	-	8,760.00	301,171.80	167,150.35
43	6.1		-	-	-	8,760.00	292,411.80	162,288.55
44	6.7		-	-	-	8,760.00	283,651.80	157,426.75
45	7.2	(47.5)	-	-	-	8,760.00	274,891.80	152,564.95
46	7.8		-	-	-	8,760.00	266,131.80	147,703.15
47	8.3	0	-	-	-	8,760.00	257,371.80	142,841.35
48	8.9		-	-	-	8,760.00	248,611.80	137,979.55
49	9.4		-	-	-	8,760.00	239,851.80	133,117.75
50	10.0	52.5	9.60	-	-	8,760.00	231,091.80	128,255.95
51	10.6		19.20	24.00	13.32	8,750.40	222,355.80	123,407.47
52	11.1	48	28.80	48.00	26.64	8,740.80	213,619.80	118,558.99
53	11.7		38.40	72.00	39.96	8,731.20	204,883.80	113,710.51
54	12.2		48.00	96.00	53.28	8,721.60	196,147.80	108,862.03
55	12.8	(57.5)	150.00	120.00	66.60	8,712.00	187,411.80	104,013.55
56	13.3		252.00	423.00	234.77	8,610.00	178,954.80	99,319.91
57	13.9	510	354.00	726.00	402.93	8,508.00	170,497.80	94,626.28
58	14.4		456.00	1,029.00	571.10	8,406.00	162,040.80	89,932.64
59	15.0		558.00	1,332.00	739.26	8,304.00	153,583.80	85,239.01
60	15.6	(62.5)	675.60	1,635.00	907.43	8,202.00	145,126.80	80,545.37
61	16.1		793.20	2,487.00	1,380.29	8,084.40	137,218.80	76,156.43
62	16.7	588	910.80	3,339.00	1,853.15	7,966.80	129,310.80	71,767.49
63	17.2		1,028.40	4,191.00	2,326.01	7,849.20	121,402.80	67,378.55
64	17.8		1,146.00	5,043.00	2,798.87	7,731.60	113,494.80	62,989.61
65	18.3	(67.5)	1,324.20	5,895.00	3,271.73	7,614.00	105,586.80	58,600.67
66	18.9		1,502.40	7,486.50	4,155.01	7,435.80	98,418.30	54,622.16
67	19.4	891	1,680.60	9,078.00	5,038.29	7,257.60	91,249.80	50,643.64
68	20.0		1,858.80	10,669.50	5,921.57	7,079.40	84,081.30	46,665.12
69	20.6		2,037.00	12,261.00	6,804.86	6,901.20	76,912.80	42,686.60

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

DEGREE HOURS & HOURS OF OCCURRENCE — Station : CHIANG RAI

YEARS : 1981 - 1998 (2524-2541)

TEMPERATURE Degree		MEAN TEMP.DEGREE (°F)	NO. OF HOURS	NO. OF DEGREE HOURS OF HEATING BELOW TEMPERATURE		NO. OF HOURS	NO. OF DEGREE HOURS OF COOLING ABOVE TEMPERATURE	
°F	°C	HOURS OF OCCURRENCE	BELOW TEMPERATURE	°F	°C	ABOVE TEMPERATURE	°F	°C
70	21.1	(72.5)	2,265.00	13,852.50	7,688.14	6,723.00	69,744.30	38,708.09
71	21.7		2,493.00	16,459.50	9,136.02	6,495.00	63,591.30	35,293.17
72	22.2	1140	2,721.00	19,066.50	10,581.91	6,267.00	57,438.30	31,878.26
73	22.8		2,949.00	21,673.50	12,028.79	6,039.00	51,285.30	28,463.34
74	23.3		3,177.00	24,280.50	13,476.68	5,811.00	45,132.30	25,048.43
75	23.9	(77.5)	3,669.60	26,887.50	14,922.56	5,583.00	38,979.30	21,633.51
76	24.4		4,162.20	31,296.00	17,369.28	5,090.40	34,627.80	19,218.43
77	25.0	2463	4,654.80	35,704.50	19,816.00	4,597.80	30,276.30	16,803.35
78	25.6		5,147.40	40,113.00	22,262.72	4,105.20	25,924.80	14,388.26
79	26.1		5,640.00	44,521.50	24,709.43	3,612.60	21,573.30	11,973.18
80	26.7	(82.5)	5,980.20	48,930.00	27,156.15	3,120.00	17,221.80	9,558.10
81	27.2		6,320.40	55,420.50	30,758.38	2,779.80	14,952.30	8,298.53
82	27.8	1701	6,660.60	61,911.00	34,360.61	2,439.60	12,682.80	7,038.95
83	28.3		7,000.80	68,401.50	37,962.83	2,099.40	10,413.30	5,779.38
84	28.9		7,341.00	74,892.00	41,565.06	1,759.20	8,143.80	4,519.81
85	29.4	(87.5)	7,540.80	81,382.50	45,167.29	1,419.00	5,874.30	3,260.24
86	30.0		7,740.60	89,223.00	49,518.77	1,219.20	4,954.80	2,749.91
87	30.6	999	7,940.40	97,063.50	53,870.24	1,019.40	4,035.30	2,239.59
88	31.1		8,140.20	104,904.00	58,221.72	819.60	3,115.80	1,729.27
89	31.7		8,340.00	112,744.50	62,573.20	619.80	2,196.30	1,218.96
90	32.2	(92.5)	8,415.60	120,585.00	66,924.68	420.00	1,276.80	708.62
91	32.8		8,491.20	129,114.00	71,658.27	344.40	1,045.80	580.42
92	33.3	378	8,566.80	137,643.00	76,391.87	268.80	814.80	452.21
93	33.9		8,642.40	146,172.00	81,125.46	193.20	583.80	324.01
94	34.4		8,718.00	154,701.00	85,859.06	117.60	352.80	195.80
95	35.0	(97.5)	8,726.40	163,230.00	90,592.65	42.00	121.80	67.60
96	35.6		8,734.80	171,969.00	95,442.80	33.60	92.40	51.28
97	36.1	42	8,743.20	180,708.00	100,292.94	25.20	63.00	34.97
98	36.7		8,751.60	189,447.00	105,143.09	16.80	33.60	18.65
99	37.2		8,760.00	198,186.00	109,993.23	8.40	4.20	2.33