

ข้อมูลอากาศประเทศไทยสำหรับงานอนุรักษ์พลังงาน จังหวัด
กรุงเทพมหานคร



โดย

ผศ.ธนิต จินดาวงนิค

คมกฤษ ชูเกียรติมั่น

ร.อ.หญิงปริมลภา วสุวัต

สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

เล่ม

สารบัญ

หน้า

ตารางสรุปรวมผลของข้อมูลทุกประเภทจังหวัดกรุงเทพมหานคร	1
ตารางแสดงผลข้อมูลอุณหภูมิกระเปาะแห้ง (dry bulb temperatures)	2
แผนภูมิอุณหภูมิกระเปาะแห้ง (dry bulb temperatures)	3
ตารางแสดงผลข้อมูลอุณหภูมิกระเปาะเปียก (wet bulb temperatures)	4
แผนภูมิความแตกต่างระหว่างอุณหภูมิกระเปาะแห้งและอุณหภูมิกระเปาะเปียก (diurnal temperatures)	5
ตารางแสดงผลข้อมูลอุณหภูมิจุดน้ำค้าง (dew point temperatures)	6
ตารางแสดงผลข้อมูลปริมาณองศาวัน การทำความร้อนและการทำความเย็น (heating and cooling degree days)	7
แผนภูมิปริมาณองศาวัน การทำความร้อนและการทำความเย็น (heating and cooling degree days)	9
ตารางแสดงผลข้อมูลความชื้นสัมพัทธ์ (relative humidity)	10
แผนภูมิความชื้นสัมพัทธ์ (relative humidity)	11
ตารางแสดงผลข้อมูลจำแนกความถี่ของลม ในแต่ละความเร็วและทิศทาง ที่เกิดลมรายเดือน (monthly frequency distribution of wind in each speed and direction)	12
แผนภูมิจำแนกความถี่ของลม ในแต่ละความเร็วและทิศทาง ที่เกิดลมรายเดือน (wind rose)	13
ตารางแสดงผลข้อมูลสภาพท้องฟ้าและสัดส่วนเปอร์เซ็นต์สภาพท้องฟ้า (sky cover and percentage of sky condition)	14
แผนภูมิสภาพท้องฟ้าและสัดส่วนเปอร์เซ็นต์สภาพท้องฟ้า (sky cover and percentage of sky condition)	15
ตารางแสดงผลข้อมูลระยะเวลาของแสงแดด (duration of sunshine)	16
แผนภูมิระยะเวลาของแสงแดด (average percent of sunshine per month)	17
ตารางแสดงผลข้อมูลปริมาณรังสีรวมดวงอาทิตย์ (solar radiation)	18
แผนภูมิปริมาณรังสีรวมดวงอาทิตย์ (solar radiation)	19
ตารางแสดงผลข้อมูลปริมาณน้ำฝน (rain fall)	20
แผนภูมิปริมาณน้ำฝน (rain fall)	21
ตารางแสดงผลข้อมูลค่าเฉลี่ยอัตราการระเหยของน้ำรายวัน (evaporation)	22
แผนภูมิค่าเฉลี่ยอัตราการระเหยของน้ำรายเดือน (average monthly evaporation from U.S. class "A" pan)	23
แผนภูมิความสัมพันธ์ระหว่างข้อมูลสภาวะอากาศในแผนภูมิไบโอไคลเมตริก (bioclimatic chart) กับแผนภูมิแสดงความถี่ของลมในแต่ละความเร็วและทิศทางที่เกิดลมรายเดือน (wind rose) แยกตามช่วงเวลา	24
แผนภูมิความสัมพันธ์ระหว่างข้อมูลสภาวะอากาศ ในแผนภูมิไซโครเมตริก (psychrometric chart) แยกตามช่วงเวลา	36
ตารางแสดงผลข้อมูลจำนวนรายชั่วโมงอุณหภูมิกระเปาะแห้ง และค่าเฉลี่ยอุณหภูมิกระเปาะเปียกที่เกิดขึ้น จำแนกตามช่วงอุณหภูมิกระเปาะแห้ง (bin data) ในแต่ละช่วงเวลา	40
ตารางแสดงผลข้อมูลปริมาณองศาชั่วโมง การทำความร้อนและการทำความเย็น (degree hours and hours of occurrence)	43

ตารางสรุปรวมผลของข้อมูลทุกประเภทจังหวัดกรุงเทพมหานคร

CLIMATOLOGICAL DATA FOR THE PERIOD 1981-1998													station : BANGKOK METROPOLIS
Elevation of station above MSL			2 Meters			Latitude: 13 44 N							
													Longitude: 100 34 E
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
TEMPERATURE (°C)													
Averages													
Daily Maximum	31.7	32.6	33.7	34.7	34.2	33.1	32.3	31.8	31.6	31.3	31.6	31.0	32.5
Monthly Mean	27.0	28.1	29.6	30.7	30.4	29.7	29.2	28.7	28.2	28.0	27.8	26.8	28.7
Daily Minimum	23.1	24.5	26.5	27.6	27.4	27.0	26.7	26.3	25.7	25.3	24.3	22.9	25.6
Dry bulb Standard Deviation	3.5	3.3	2.8	2.9	3.0	2.6	2.5	2.4	2.5	2.7	3.0	3.5	2.9
Extremes													
Highest	36.0	36.6	37.4	38.2	38.1	37.1	37.1	36.0	35.0	35.7	35.3	36.3	38.2
Lowest	14.7	16.8	20.2	22.7	22.3	23.1	23.2	22.6	23.0	19.0	18.2	15.9	14.7
Monthly Dew Point	19.8	22.1	23.3	24.3	24.5	24.0	23.6	23.7	24.0	23.5	21.5	18.6	22.7
Dew Point Standard Deviation	3.6	2.9	2.3	1.6	1.2	1.3	1.2	1.1	1.0	1.7	2.6	3.1	2.0
Monthly Wet bulb Temperature	22.6	23.8	25.5	26.3	26.3	25.8	25.4	25.3	25.3	24.8	23.4	21.8	24.7
DEGREE DAY BASE 18.3 °C													
Heating	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cooling	269.4	283.7	347.9	370.1	373.5	341.1	335.4	319.9	296.6	299.1	282.9	262.0	3,781.6
RELATIVE HUMIDITY (%)													
Averages													
Monthly Mean	69.2	72.1	72.4	71.7	74.3	74.1	74.8	76.0	79.7	79.1	71.6	67.6	73.6
Hour 01:00-06:00	81.9	83.8	83.6	82.7	83.9	82.1	83.0	83.8	88.4	88.9	82.1	78.3	83.5
Hour 07:00-12:00	75.5	76.8	75.8	74.6	76.5	75.4	76.0	77.1	81.0	80.9	74.8	72.2	76.4
Hour 13:00-18:00	50.0	53.6	55.2	55.2	60.4	62.3	62.5	63.8	66.9	65.5	56.8	52.3	58.7
Hour 19:00-24:00	69.2	74.3	75.2	74.3	76.5	76.6	77.6	79.3	82.6	81.2	72.7	67.6	75.6
WIND													
Average Speed (m/s)	1.3	2.2	2.6	2.2	1.8	2.1	1.9	1.9	1.2	1.1	1.3	1.3	1.7
Prevailing wind	NE	S	S	S	S	SW	SW	SW	SW	NE	NE	NE	S, SW
Maximum Speed (m/s)	9.3	15.9	25.7	10.3	9.3	10.3	11.8	13.9	10.3	41.1	9.3	11.3	41.1
SKY COVER (0-10)													
Average Sky Condition	5.9	6.1	6.4	6.9	7.9	8.3	8.6	8.8	8.8	8.2	6.8	5.6	7.4
Percentage of Sky cover													
Clear sky (0-3)	15	10	5	4	1	1	1	0	0	1	6	17	5
Partly Cloudy sky (4-7)	59	62	65	55	32	21	18	13	14	28	52	61	40
Cloudy sky (8-10)	26	28	29	41	66	77	81	87	86	72	42	22	55
SUNSHINE DURATION* (hours)													
Average Monthly total	250.4	247.6	263.1	252.6	207.4	170.5	151.8	136.8	133.2	177.2	200.4	239.3	2,430.3
Percentage of Sunshine	67.3	71.2	70.7	70.2	55.8	47.4	40.8	36.8	37.0	47.6	55.7	64.3	55.3
SOLAR RADIATION** (W/m²)													
Average Hourly max	864.3	883.6	865.3	873.3	777.8	722.8	690.8	653.0	632.8	680.6	745.0	898.0	773.9
Average Hourly mean	364.9	390.3	400.9	420.1	382.7	357.3	339.7	317.4	287.8	303.0	321.9	363.6	354.1
Average Daily Total	5,473.9	5,854.7	6,013.3	6,301.3	5,740.9	5,359.9	5,095.9	4,761.0	4,316.3	4,544.5	4,828.4	5,454.5	5,312.1
RAINFALL (mm)													
Average Monthly total	5.8	16.1	28.7	74.9	221.0	154.0	176.7	250.0	397.4	305.3	64.0	3.3	1,697.2
Daily record high	41.9	49.6	67.2	93.5	375.4	113.3	80.5	106.1	153.4	149.7	129.7	11.3	375.4
Average Number of rainy days (0.1 mm. Or more)	1	2	2	5	15	16	17	20	22	17	6	1	124
EVAPORATION (mm)													
Average Monthly total	140.9	153.2	190.8	192.3	184.4	156.1	158.9	157.5	134.8	124.2	124.6	135.9	1,853.6

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

* data base on 1997 - 1998 recorded period

1 W/m2 = 0.317 Btu/h.ft2

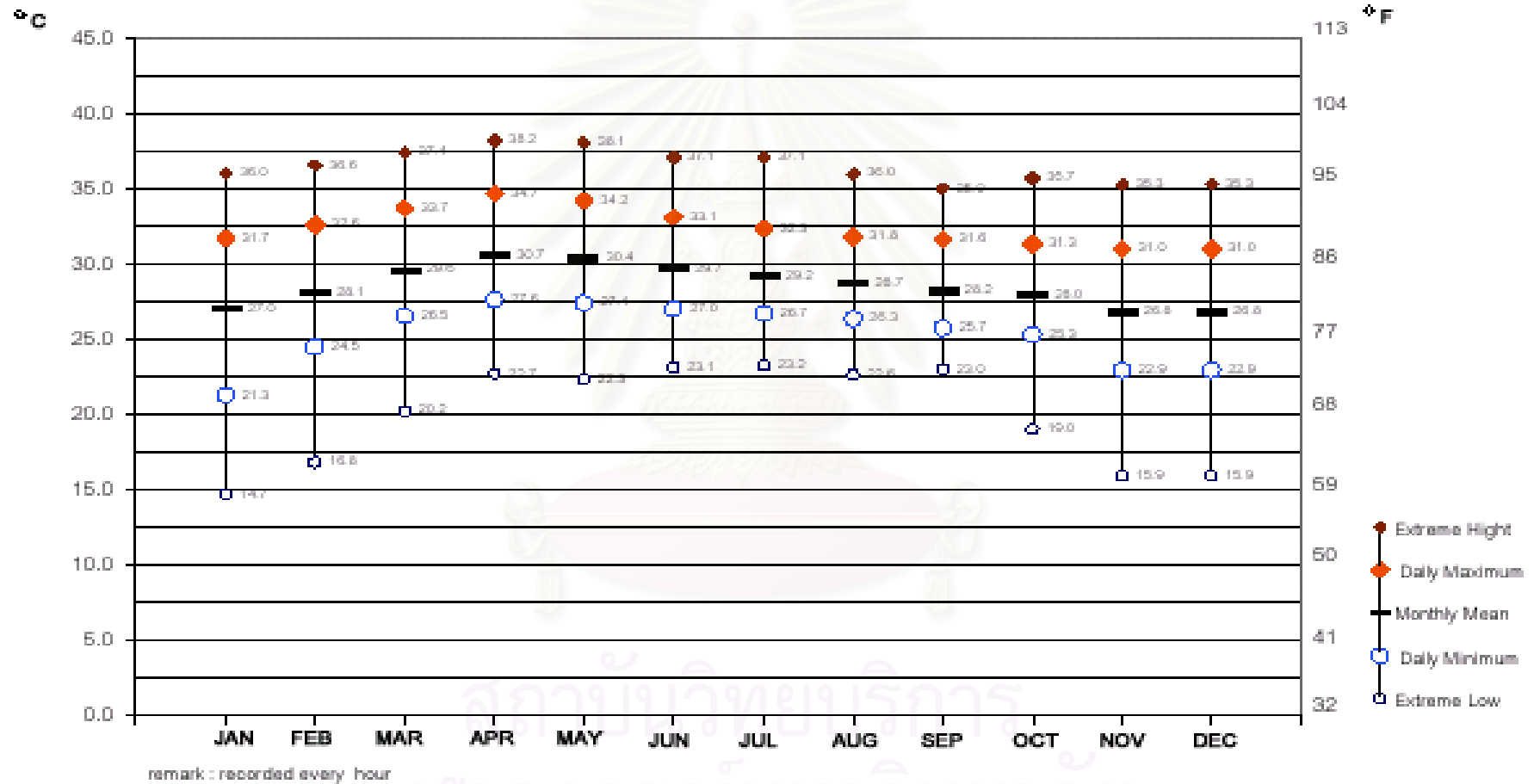
** data base on 1986 - 1998 recorded period

ตารางแสดงผลข้อมูลอุณหภูมิกระเปาะแห้ง (dry bulb temperatures)

DRY BULB TEMPERATURES (°C) 1981 - 1998 (2524 - 2541)														Station : BANGKOK METROPOLIS																												
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	22.1	26.4	31.3	23.6	27.0	31.7	26.9	29.3	33.1	27.0	30.1	34.0	27.8	31.4	35.7	27.0	30.3	34.0	27.0	29.6	32.5	26.8	28.6	31.2	25.6	28.4	31.6	25.6	28.0	30.9	23.6	27.1	31.2	24.8	27.9	31.0	25.6	28.7	32.3			
2	22.3	26.9	32.0	23.6	27.0	31.6	25.8	28.8	32.9	27.2	30.5	34.9	28.9	31.7	35.9	27.8	30.1	33.0	27.1	29.5	33.0	26.6	28.9	32.0	26.0	28.6	32.1	25.6	28.0	30.8	24.0	26.9	30.8	24.4	27.5	31.1	25.8	28.7	32.5			
3	23.2	27.2	31.9	23.0	27.1	31.7	25.2	29.2	34.2	27.0	30.5	34.8	28.6	31.4	35.3	27.4	29.8	33.4	27.0	29.5	33.1	26.5	28.7	31.8	25.9	28.5	32.2	26.0	28.1	31.5	23.5	26.8	30.4	23.9	27.8	31.9	25.6	28.7	32.7			
4	23.1	27.3	32.0	23.4	27.3	32.2	25.6	29.2	33.5	26.8	30.0	34.8	28.4	31.7	35.6	27.9	30.6	34.3	25.9	29.2	32.7	26.2	28.7	31.9	25.2	28.3	31.5	25.6	28.0	30.8	23.9	27.1	30.7	24.2	27.9	31.9	25.5	28.8	32.6			
5	23.4	27.2	31.9	23.5	27.2	31.9	26.0	29.1	33.3	26.5	30.2	34.4	28.3	31.1	34.5	27.6	30.2	33.6	26.3	29.3	33.0	26.0	28.6	32.0	26.2	28.7	32.3	25.4	28.0	31.3	23.9	27.4	31.8	24.2	28.2	32.4	25.6	28.8	32.7			
6	23.0	26.8	31.6	23.4	27.4	32.1	25.9	29.2	33.6	27.8	30.8	35.1	27.9	31.1	35.6	27.7	30.1	33.6	26.1	29.2	32.4	26.5	28.9	32.1	26.1	28.5	32.5	25.2	27.9	31.1	23.8	27.8	31.7	24.2	27.7	31.4	25.6	28.8	32.7			
7	23.0	26.9	31.6	23.6	27.6	32.6	26.2	29.3	33.7	28.2	31.0	34.9	27.7	30.9	35.8	26.9	29.6	33.3	26.3	29.4	33.3	26.7	28.8	32.4	25.7	28.4	32.0	25.4	28.3	31.5	24.7	28.3	32.2	23.3	27.0	31.0	25.6	28.8	32.8			
8	22.4	26.9	31.8	24.1	27.8	32.6	26.0	29.3	33.4	28.1	30.4	34.2	27.6	30.5	35.1	26.8	29.5	32.9	26.5	29.5	32.9	26.2	28.7	31.9	25.7	28.5	32.0	25.7	28.5	32.2	25.2	28.6	32.7	22.7	26.3	30.1	25.6	28.7	32.6			
9	22.4	26.4	31.1	24.4	27.9	32.8	25.8	29.4	33.7	27.2	30.6	34.8	28.0	30.6	34.2	26.4	29.1	32.8	26.4	28.9	31.9	26.2	28.8	31.5	26.1	28.6	32.0	25.9	28.0	31.0	25.1	28.2	31.8	22.1	26.2	30.5	25.5	28.6	32.3			
10	22.6	27.0	31.9	24.8	28.2	33.0	26.4	29.5	33.8	27.8	31.0	35.2	27.6	30.6	34.8	26.5	29.0	32.4	26.4	28.9	32.4	26.6	28.8	31.9	26.0	28.4	32.0	25.3	27.5	30.8	24.3	27.8	31.4	22.6	26.4	30.4	25.6	28.6	32.5			
11	22.8	26.9	31.7	24.3	28.0	32.5	26.2	29.5	33.7	27.6	31.0	35.7	27.6	30.6	34.3	26.5	29.1	32.4	26.3	28.9	31.9	26.3	29.0	32.0	25.8	28.3	32.6	25.5	28.1	31.3	24.0	27.7	31.7	23.1	26.6	30.8	25.5	28.7	32.5			
12	22.9	27.0	31.9	24.6	28.3	32.6	26.9	29.5	33.6	27.5	30.9	35.1	27.8	30.6	34.4	26.9	30.0	33.4	26.6	29.4	32.6	26.8	29.0	32.5	25.1	27.9	31.3	25.8	28.5	32.0	24.4	27.9	32.0	23.1	27.0	31.2	25.7	28.8	32.7			
13	23.5	27.2	31.8	25.6	28.6	32.9	26.4	29.4	33.4	27.5	30.5	34.5	27.2	30.2	34.0	27.0	29.6	32.7	26.7	29.3	32.6	26.5	28.8	32.4	26.0	28.3	31.8	25.1	27.9	31.8	24.2	27.7	31.7	23.2	27.0	31.1	25.7	28.7	32.5			
14	23.9	27.2	31.8	25.3	28.7	33.1	26.9	29.5	32.9	27.2	30.2	33.8	27.0	30.4	34.3	27.3	29.7	32.9	26.7	29.0	31.9	26.3	28.8	31.8	25.9	28.3	31.3	25.3	28.4	32.3	24.5	27.7	31.5	23.2	27.3	31.6	25.8	28.8	32.4			
15	23.4	26.9	31.5	25.1	28.7	33.1	26.8	29.6	33.4	27.3	30.7	35.2	27.8	30.9	34.9	26.9	29.8	33.1	26.6	29.1	32.1	26.7	29.2	32.3	25.9	28.5	31.3	25.7	28.5	31.3	24.4	27.7	31.5	24.4	27.3	30.7	25.9	28.9	32.5			
16	22.4	26.6	31.1	25.6	28.8	33.2	26.8	30.0	34.6	27.5	30.7	35.0	28.1	30.8	34.9	26.6	29.9	33.0	26.6	29.0	32.2	27.0	29.3	31.8	25.9	28.6	32.1	25.2	28.1	30.9	24.0	27.7	31.5	24.0	27.2	30.8	25.8	28.9	32.6			
17	22.2	26.4	31.3	25.3	28.6	33.0	26.8	29.9	34.2	28.5	31.1	34.7	27.8	30.6	34.2	27.2	29.9	33.3	26.8	29.0	32.5	27.1	29.2	31.8	25.9	28.1	31.1	25.7	28.2	31.8	24.7	28.0	31.6	23.0	26.8	31.1	25.9	28.8	32.5			
18	22.5	26.7	31.9	25.0	28.6	32.8	26.8	29.7	34.0	28.5	31.0	34.9	27.5	29.4	33.0	26.9	29.8	33.6	26.8	29.6	32.8	26.1	28.1	31.2	25.9	27.8	31.1	25.2	28.0	31.4	24.9	28.0	31.7	23.2	26.8	30.9	25.8	28.6	32.4			
19	23.0	26.9	31.9	25.0	28.5	32.6	26.8	29.7	33.8	28.7	31.4	35.2	26.6	28.9	32.1	27.2	29.6	33.1	27.5	29.8	33.8	26.2	28.3	31.5	25.4	27.8	30.8	25.6	27.8	30.7	24.2	28.0	32.2	23.3	27.1	31.0	25.8	28.6	32.4			
20	23.4	27.0	31.9	24.3	28.2	32.6	26.6	29.3	33.1	28.8	31.2	35.1	26.5	29.1	33.0	26.6	29.6	33.7	26.9	29.6	33.0	26.1	28.1	30.6	25.4	27.7	30.4	25.4	27.9	30.7	24.6	28.1	31.5	23.3	27.3	31.4	25.7	28.6	32.3			
21	23.9	27.3	31.7	24.2	27.9	32.3	26.4	29.4	33.2	27.9	30.8	34.9	26.7	29.6	33.0	26.6	29.7	33.2	26.9	29.9	33.3	25.7	28.4	31.8	25.6	28.2	31.7	25.1	28.0	31.6	24.6	28.1	31.9	23.8	27.5	31.5	25.6	28.7	32.5			
22	24.0	27.4	31.4	23.7	28.2	33.4	26.4	29.7	33.7	27.6	30.2	33.6	26.7	29.8	33.3	26.8	29.9	33.6	26.6	29.4	32.3	25.9	28.2	31.6	25.7	28.3	31.8	25.2	28.0	31.4	24.4	27.9	31.6	23.4	26.9	30.9	25.5	28.7	32.4			
23	24.3	27.7	32.0	24.5	28.2	32.7	26.9	29.8	33.8	27.2	30.4	34.5	27.0	30.4	34.7	27.3	30.1	33.5	26.8	29.4	32.8	26.2	28.5	31.9	25.4	28.2	31.4	25.3	28.0	31.6	24.4	27.9	31.5	22.7	26.7	31.6	25.7	28.8	32.7			
24	24.4	27.4	31.5	25.0	28.3	32.7	26.5	29.6	33.8	27.5	31.0	35.5	26.9	30.1	34.0	27.0	29.7	33.0	27.1	29.0	32.3	25.8	28.3	31.6	25.1	27.4	30.8	25.3	27.8	30.7	24.2	27.6	31.4	21.9	26.1	30.6	25.6	28.5	32.3			
25	24.3	27.5	31.9	24.8	28.5	33.3	26.9	29.8	33.8	27.5	30.3	33.9	26.5	29.9	33.7	27.0	29.7	32.7	26.9	28.7	31.2	26.1	28.3	31.8	25.4	27.9	31.0	24.7	27.7	31.4	23.9	27.4	31.2	20.6	24.8	29.1	25.4	28.4	32.1			
26	24.1	27.7	32.6	24.9	28.7	33.0	26.6	29.7	33.5	27.3	30.3	33.9	27.1	30.0	34.2	27.0	29.4	32.4	26.7	28.9	31.4	25.7	28.2	31.5	25.5	28.3	31.7	24.7	27.8	31.8	24.3	28.0	31.8	21.0	25.5	30.5	25.4	28.5	32.4			
27	24.0	27.4	31.6	25.1	28.6	32.5	26.9	29.5	33.9	27.5	30.6	34.8	27.0	30.0	33.5	26.5	29.3	32.5	27.1	29.0	31.5	26.2	28.9	32.5	25.8	28.0	31.6	24.9	27.6	31.3	24.3	27.6	31.3	20.9	25.6	30.4	25.5	28.5	32.3			
28	23.2	27.2	31.7	26.1	28.8	32.6	26.4	29.6	33.7	27.6	30.6	34.5	27.3	29.8	33.5	26.5	29.2	32.4	26.7	29.0	32.3	26.6	29.1	32.7	25.6	28.1	31.9	24.8	28.0	32.0	24.6	27.5	30.3	21.1	25.8	30.7	25.5	28.6	32.4			
29	23.0	26.9	31.9	26.0	28.8	33.0	26.9	30.2	34.5	27.7	31.0	34.9	26.9	29.7	33.6	26.4	29.4	32.6	26.5	28.6	31.2	26.5	28.3	32.0	25.8	28.1	31.4	25.1	28.1	31.4	24.6	28.2	32.3	21.1	25.9	31.0	25.5	28.6	32.5			
30	22.2	26.6	31.7				27.8	30.3	34.0	28.4	31.2	34.7	27.0	29.9	33.6	27.3	29.3	32.3	26.6	28.5	31.6	25.9	28.4	31.6	25.8	27.9	30.4	24.7	27.5	31.3	24.9	28.3	32.2	21.6	26.0	31.4	25.7	28.5	32.2			
31	22.6	26.9	32.1				27.3	30.3	34.9				26.9	29.8	33.1				26.1	28.1	30.4				25.8	28.1	31.6				24.4	27.2	30.6				21.5	26.2	31.4	24.9	28.1	32.0
Average	23.1	27.0	31.7	24.5	28.1	32.6	26.5	29.6	33.7	27.6	30.7	34.7	27.4	30.4	34.2	27.0	29.7	33.1	26.7	29.2	32.3	26.3	28.7	31.8	25.7	28.2	31.8	25.3	28.0	31.3	24.3	27.8	31.6	22.9	26.8	31.0	25.6	28.7	32.5			
Extremes	14.7		36.0	16.8		36.6	20.2		37.4	22.7		38.2	22.3		38.1	23.1		37.1	23.2		37.1	22.6		36.0	23.0		35.0	19.0		35.7</												

แผนภูมิอุณหภูมิกระเปาะแห้ง (dry bulb temperatures)

DRY BULB TEMPERATURES (°C) 1991 - 1998 (2534 - 2541) Station : BANGKOK METROPOLIS



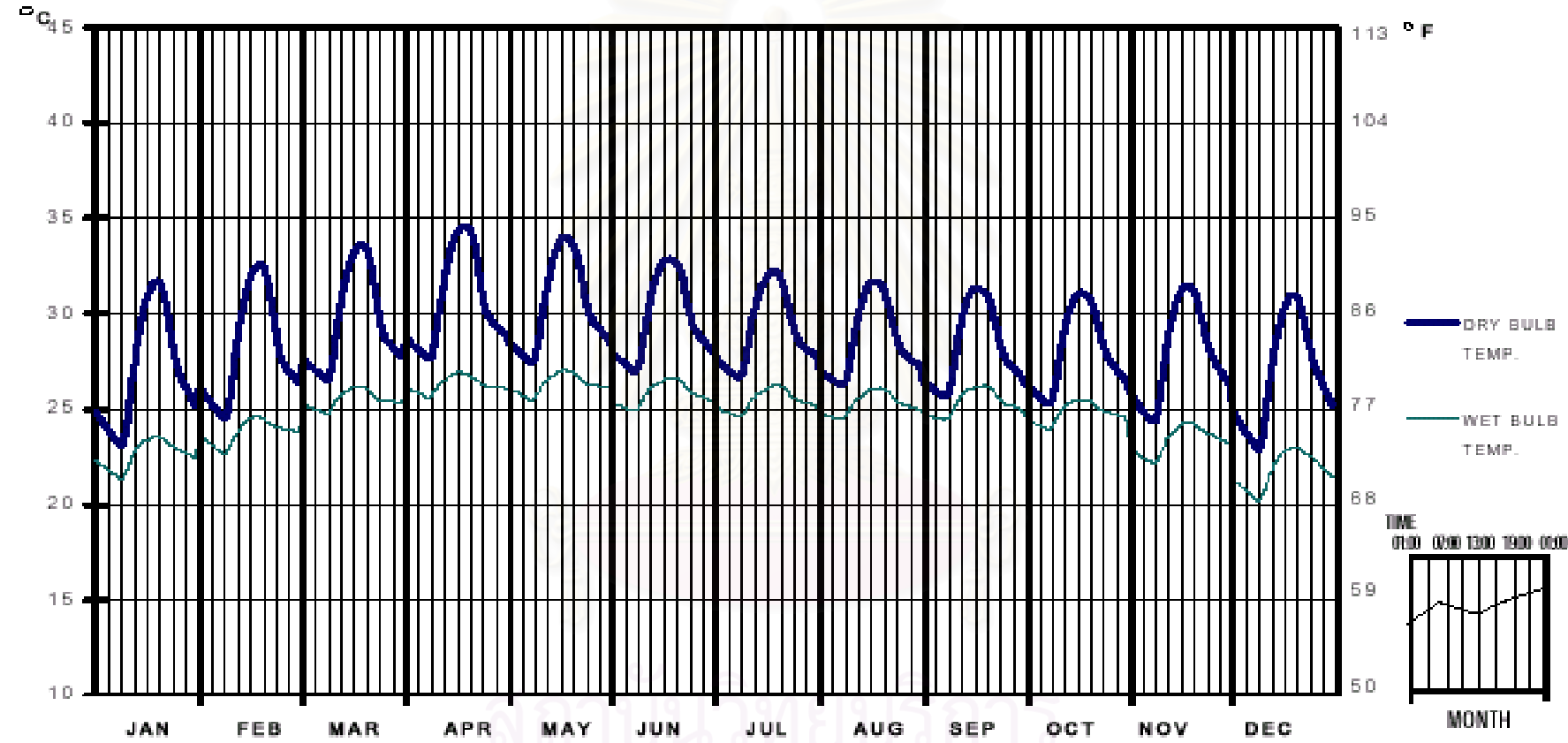
จุฬาลงกรณ์มหาวิทยาลัย

ตารางแสดงผลข้อมูลอุณหภูมิกระเปาะเปียก (wet bulb temperatures)

WET BULB TEMPERATURES (°C) 1981 - 1998 (2524 - 2541)													Station : BANGKOK METROPOLIS																													
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	20.1	21.9	23.1	20.8	22.3	23.6	25.1	25.5	26.0	25.4	25.9	26.8	25.9	26.6	27.3	25.4	26.4	27.4	24.6	25.4	26.2	25.0	25.5	26.0	24.3	25.3	26.3	24.6	25.4	26.2	21.7	22.9	24.1	22.4	23.5	24.6	23.8	24.7	25.6			
2	20.5	22.0	23.2	21.0	22.1	23.3	23.9	24.9	25.3	25.3	26.0	26.9	26.4	26.9	27.4	25.5	26.4	27.0	25.0	25.8	26.6	24.9	25.6	26.3	24.7	25.5	26.5	24.6	25.4	26.3	22.0	22.8	23.7	22.1	23.1	24.1	23.8	24.7	25.5			
3	21.5	22.6	23.7	20.2	21.9	23.1	23.6	24.4	24.9	24.8	26.0	26.8	26.4	27.1	28.0	25.4	26.3	27.1	25.1	25.9	26.8	24.9	25.6	26.6	24.5	25.4	26.4	24.6	25.3	26.1	21.6	22.7	23.6	21.6	23.1	24.4	23.7	24.7	25.6			
4	21.5	22.8	23.9	20.7	22.3	23.5	24.2	24.9	25.7	25.0	25.8	26.6	26.2	26.8	27.4	25.6	26.3	27.1	24.4	25.8	26.8	24.4	25.4	26.4	24.1	25.2	26.4	24.4	25.2	26.0	22.4	23.3	24.3	21.7	23.0	24.2	23.7	24.7	25.7			
5	21.3	22.4	23.3	21.0	22.5	23.7	24.0	24.9	25.7	24.6	25.8	26.8	25.4	26.4	27.3	25.5	26.4	27.3	24.6	25.6	26.6	24.4	25.3	26.2	24.3	25.1	26.1	24.1	25.1	25.9	21.9	23.1	24.5	21.5	23.0	24.1	23.6	24.6	25.6			
6	20.8	22.1	23.2	21.1	22.5	23.4	24.1	25.0	25.8	25.8	26.3	26.9	25.3	26.4	27.6	25.5	26.2	27.1	24.3	25.4	26.5	24.2	25.1	26.1	24.3	25.0	26.0	24.1	25.0	25.8	22.3	23.8	25.0	21.3	22.7	24.0	23.6	24.6	25.6			
7	20.8	21.9	22.7	21.7	23.1	24.1	24.5	25.3	25.9	25.9	26.4	26.9	25.5	26.2	27.5	25.1	26.2	27.4	23.8	25.3	26.4	24.3	25.0	26.3	23.9	25.0	26.4	24.4	25.3	26.1	22.2	23.6	24.7	20.4	21.9	23.2	23.5	24.6	25.6			
8	20.7	21.9	23.1	22.0	23.3	24.0	24.5	25.5	26.3	25.2	25.9	26.4	25.4	26.3	27.4	25.2	26.0	26.8	24.3	25.2	26.4	23.9	24.9	26.0	24.1	25.1	26.0	24.5	25.4	26.1	22.8	23.9	24.7	19.6	21.1	22.2	23.5	24.5	25.4			
9	20.3	21.9	23.1	22.0	23.4	24.5	23.9	25.1	25.9	25.3	26.1	26.8	25.9	26.5	27.3	25.0	26.0	27.2	24.4	25.3	26.3	24.2	25.2	26.0	24.4	25.3	26.1	24.6	25.4	26.2	22.5	23.6	24.4	19.0	20.9	22.7	23.5	24.6	25.6			
10	20.8	22.4	23.6	23.0	23.8	25.0	24.4	25.4	26.5	25.8	26.3	27.0	25.6	26.2	26.9	24.7	25.8	26.7	24.4	25.3	26.5	24.6	25.4	26.5	24.4	25.2	26.2	24.6	25.4	26.2	21.9	23.1	24.0	19.7	21.3	22.7	23.6	24.6	25.6			
11	21.1	22.5	23.8	22.7	23.9	24.8	24.5	25.5	26.3	25.5	26.2	26.9	25.6	26.4	27.3	25.0	25.8	26.6	24.3	25.3	26.0	24.5	25.3	26.1	24.3	25.2	26.6	24.6	25.4	26.1	22.1	23.2	24.4	20.2	21.7	23.1	23.7	24.7	25.7			
12	21.6	23.1	24.4	22.9	24.2	25.0	25.0	25.6	26.6	25.3	26.3	27.1	25.8	26.4	27.3	25.4	26.0	26.8	24.5	25.3	26.3	24.7	25.3	26.3	24.1	24.9	26.0	24.8	25.6	26.4	22.0	23.3	24.4	20.2	21.8	23.0	23.8	24.8	25.8			
13	22.4	23.5	24.3	23.9	24.9	25.9	24.9	25.5	26.3	25.3	26.0	26.9	25.5	26.3	27.1	25.4	26.1	27.0	24.3	25.3	26.3	24.3	25.2	26.1	24.5	25.4	26.2	24.1	25.2	26.4	22.4	23.5	24.5	20.6	22.3	23.7	23.9	24.9	25.9			
14	22.5	23.1	23.7	24.0	24.9	25.6	25.2	25.7	26.5	25.2	25.9	26.6	25.2	26.2	27.1	25.4	26.1	27.1	24.6	25.4	26.4	24.4	25.3	26.0	24.5	25.4	26.2	24.1	25.4	26.4	22.3	23.2	24.2	21.0	22.7	23.8	24.0	24.9	25.8			
15	21.3	22.6	23.4	23.7	24.7	25.4	24.9	25.7	26.6	25.3	26.2	26.9	25.6	26.5	27.1	25.2	26.0	26.9	24.6	25.5	26.2	24.6	25.3	26.2	24.5	25.6	26.6	24.7	25.4	26.2	21.5	23.1	24.6	21.7	22.7	23.7	24.0	24.9	25.8			
16	20.6	22.2	23.5	24.1	24.8	25.5	25.1	25.8	26.5	25.4	26.4	27.3	25.9	26.5	27.4	24.4	25.8	26.7	24.8	25.5	26.4	24.8	25.5	26.1	24.4	25.5	26.5	24.1	25.3	26.3	22.0	23.2	24.2	21.0	22.2	23.2	23.9	24.9	25.8			
17	20.6	22.1	23.3	23.8	24.6	25.3	25.0	25.9	27.0	26.0	26.5	27.4	25.6	26.4	27.1	24.7	25.6	26.5	24.9	25.5	26.3	25.0	25.6	26.3	24.5	25.5	26.8	24.3	25.4	26.6	22.3	23.7	24.9	20.4	21.9	23.2	23.9	24.9	25.9			
18	20.7	22.1	23.2	23.6	24.9	25.8	25.0	25.7	26.9	26.1	26.6	27.5	25.5	26.0	26.8	24.7	25.7	26.7	25.0	25.7	26.4	24.3	25.1	25.9	24.8	25.4	26.2	24.0	24.9	26.0	22.7	23.7	24.7	20.6	22.1	23.5	23.9	24.8	25.8			
19	21.3	22.9	24.1	23.5	24.3	25.1	24.7	25.7	26.6	26.5	26.9	27.8	25.2	25.8	26.8	24.8	25.6	26.7	24.9	25.6	26.5	24.3	25.3	26.1	24.5	25.4	26.4	24.3	25.0	25.9	22.2	23.6	24.6	20.9	22.3	23.4	23.9	24.9	25.8			
20	22.1	23.2	24.2	22.3	23.9	24.9	25.0	25.5	26.1	26.4	26.9	27.5	24.9	25.9	27.1	24.5	25.6	27.0	24.6	25.5	26.4	24.2	25.1	26.2	24.4	25.2	26.3	24.3	24.9	25.7	22.5	23.6	24.6	20.9	22.4	23.6	23.9	24.8	25.8			
21	22.4	23.5	24.5	22.5	23.6	24.7	24.6	25.5	26.2	25.7	26.5	27.4	25.0	26.1	27.1	24.5	25.7	26.7	24.7	25.5	26.5	24.2	25.2	26.4	24.3	25.4	26.3	23.4	24.4	25.3	22.4	23.4	24.4	21.3	22.4	23.5	23.7	24.8	25.8			
22	22.7	23.7	24.8	21.5	23.3	24.3	24.9	25.9	27.0	25.6	25.9	26.6	25.0	26.1	27.2	24.5	25.5	26.5	24.4	25.3	26.3	24.6	25.3	26.4	24.5	25.4	26.4	23.2	24.2	25.1	21.8	23.2	24.1	20.2	21.6	23.0	23.6	24.6	25.6			
23	22.7	23.6	24.6	22.0	23.5	24.4	25.1	26.0	27.1	25.0	26.1	27.3	25.1	26.2	27.2	24.5	25.5	26.6	24.4	25.2	26.2	24.2	25.1	26.0	24.2	25.4	26.3	23.3	24.2	25.0	21.9	23.3	24.4	19.8	21.5	22.7	23.5	24.6	25.6			
24	22.6	23.6	24.3	22.8	23.7	24.5	24.8	25.6	26.8	25.6	26.4	27.6	25.0	26.2	27.1	24.3	25.2	26.8	24.5	25.3	26.3	24.0	25.0	26.0	24.3	25.3	26.4	23.6	24.2	25.0	21.7	22.9	24.0	19.6	21.0	22.5	23.6	24.5	25.6			
25	22.6	23.5	24.2	23.0	24.1	24.8	24.7	25.5	26.5	25.7	26.3	27.4	25.0	26.1	27.3	24.3	25.3	26.3	24.5	25.3	26.3	24.3	25.2	26.1	24.2	25.3	26.4	22.8	23.9	25.0	21.3	22.7	23.9	18.1	20.0	21.4	23.4	24.4	25.5			
26	22.5	23.5	24.2	23.5	24.4	25.1	24.7	25.5	26.1	25.7	26.4	26.9	25.5	26.3	27.2	24.5	25.4	26.5	24.5	25.2	25.9	24.1	25.2	26.4	24.5	25.5	26.4	22.5	23.8	24.9	22.0	23.3	24.4	18.6	20.3	21.7	23.5	24.6	25.5			
27	22.4	23.2	24.1	23.6	24.9	25.8	24.8	25.5	26.6	25.9	26.6	27.3	25.4	26.3	27.1	24.4	25.4	26.4	24.8	25.4	26.0	24.7	25.4	26.3	24.9	25.5	26.7	22.8	23.7	24.5	22.3	23.4	24.3	18.2	20.3	22.0	23.7	24.6	25.6			
28	21.3	22.2	23.1	24.5	25.4	26.5	24.7	25.5	26.5	25.2	26.2	27.1	25.3	26.1	27.3	24.5	25.3	26.6	24.6	25.3	26.2	24.5	25.5	26.6	24.7	25.5	26.8	22.7	23.6	24.6	22.4	23.6	24.8	18.0	20.2	21.9	23.5	24.5	25.7			
29	20.2	21.6	22.9	24.1	24.9	25.7	24.7	25.7	26.5	25.9	26.7	27.4	25.2	26.2	27.0	24.3	25.2	26.3	24.9	25.4	26.1	24.4	25.4	26.4	24.6	25.4	26.3	23.0	23.9	24.6	22.6	23.8	24.7	17.9	20.5	22.4	23.5	24.6	25.5			
30	19.9	21.6	22.9				25.8	26.3	27.2	26.2	26.8	27.4	25.0	26.2	27.2	24.4	25.2	26.2	24.7	25.3	26.3	24.7	25.5	26.3	24.6	25.4	26.0	23.0	23.7	24.5	22.8	23.9	24.9	19.0	20.9	22.5	23.6	24.6	25.6			
31	20.1	22.0	23.2				24.9	25.8	26.6				25.2	26.2	27.3				24.9	25.4	26.1				24.6	25.4	26.5				22.2	23.4	24.6				19.2	21.2	22.7	23.0	24.2	25.3
Average	21.3	22.6	23.7	22.6	23.8	24.7	24.7	25.5	26.3	27.1	25.5	26.3	27.2	24.9	25.8	26.8	24.6	25.4	26.3	24.4	25.3	26.2	24.4	25.3	26.3	23.9	24.8	25.7	22.1	23.4	24.4	20.2	21.8	23.1	23.7	24.7	25.7					
Extremes	12.0		27.8	14.4		29.5	14.3		29.0	20.4		29.5	22.5		29.4	20.9		28.7	21.1		29.0	21.8		28.5	20.1		28.7	16.1		29.0	15.7											

แผนภูมิความแตกต่างระหว่างอุณหภูมิกระเปาะแห้งและอุณหภูมิกระเปาะเปียก (diurnal temperatures)

DIURNAL TEMPERATURES 1991-1996 (2524-2541) Station : BANGKOK METROPOLIS



remark : recorded every hour

จุฬาลงกรณ์มหาวิทยาลัย

ตารางแสดงผลข้อมูลอุณหภูมิจุดน้ำค้าง (dew point temperatures)

DEW POINT TEMPERATURES (°C) 1981 - 1998 (2524 - 2541)														Station : BANGKOK METROPOLIS																									
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	18.4	19.1	19.9	19.2	20.3	21.3	21.9	23.0	23.6	23.3	24.1	24.7	23.2	24.4	25.4	24.3	24.7	25.2	22.8	23.4	23.9	23.4	23.7	24.1	23.2	23.7	24.1	24.0	24.3	24.6	21.8	22.0	22.4	18.8	19.2	19.6	22.0	22.7	23.3
2	18.1	19.0	19.7	19.5	20.5	21.3	20.8	21.9	23.3	23.0	24.0	24.7	23.8	24.6	25.4	24.3	24.6	25.0	23.4	23.7	24.3	23.3	23.7	24.1	23.7	23.9	24.4	24.1	24.2	24.5	21.4	21.9	22.2	18.3	18.9	19.5	22.0	22.6	23.2
3	18.9	19.6	20.2	19.8	20.6	21.5	19.5	21.3	22.5	22.6	24.1	24.9	24.1	24.7	25.4	24.2	24.5	25.1	23.4	23.8	24.3	23.6	24.0	24.9	23.1	23.7	24.2	23.6	24.0	24.5	21.6	21.9	22.2	18.4	19.1	19.8	21.9	22.6	23.3
4	19.1	19.8	20.5	20.1	21.1	21.7	20.7	21.9	23.0	23.3	24.2	24.9	23.5	24.4	25.4	24.0	24.5	25.2	23.3	23.8	24.3	23.1	23.6	24.2	23.5	23.7	24.0	23.5	23.9	24.1	21.5	22.2	22.6	18.8	19.2	19.8	22.0	22.7	23.3
5	18.6	19.3	19.8	20.4	21.3	21.8	21.7	22.5	23.2	22.6	24.0	24.9	23.8	24.4	24.9	24.2	24.5	25.2	23.5	23.7	24.2	23.2	23.7	24.1	23.3	23.5	23.6	23.4	23.7	24.2	21.5	22.0	22.3	18.8	19.4	20.0	22.1	22.7	23.2
6	18.6	19.6	20.2	19.8	21.0	21.9	21.5	22.4	23.3	23.5	24.2	24.8	24.1	24.4	24.8	24.3	24.6	25.2	23.6	23.8	24.1	23.0	23.5	23.9	23.1	23.5	24.0	23.1	23.5	24.0	21.2	21.9	22.3	18.6	19.2	19.8	22.0	22.6	23.2
7	18.2	19.2	19.9	19.4	21.1	22.4	22.0	22.9	23.5	23.3	24.3	25.0	23.6	24.3	24.8	24.2	24.5	24.8	23.1	23.5	23.9	23.3	23.5	24.0	23.1	23.4	24.1	23.5	23.9	24.5	21.4	22.0	22.6	18.1	18.7	19.3	21.9	22.6	23.2
8	18.0	18.9	19.5	19.3	21.1	22.4	22.2	23.0	23.6	22.6	24.0	25.4	24.0	24.4	24.7	23.9	24.3	24.6	23.0	23.4	23.7	23.1	23.4	23.9	23.4	23.7	24.0	23.8	24.1	24.5	21.5	22.1	22.6	17.8	18.5	19.1	21.9	22.6	23.2
9	18.0	18.7	19.7	20.1	21.3	22.3	21.8	22.8	23.6	22.6	24.0	25.2	24.2	24.6	24.9	23.9	24.3	24.8	23.4	23.7	24.1	23.2	23.6	24.3	23.5	23.8	24.1	23.8	24.2	24.5	21.7	22.0	22.6	17.6	18.2	18.7	22.0	22.6	23.2
10	18.7	19.4	20.1	20.4	21.7	22.4	22.1	23.1	23.8	23.1	24.2	25.0	23.8	24.5	25.0	23.7	24.3	24.9	23.2	23.6	24.0	23.4	23.7	24.3	23.5	23.7	23.9	24.0	24.2	24.3	20.4	21.1	21.9	18.1	18.5	19.0	22.0	22.7	23.2
11	19.3	19.7	20.1	20.9	22.0	22.6	22.6	23.5	24.4	22.4	24.0	25.1	24.1	24.8	25.2	23.7	24.2	24.6	23.3	23.6	23.9	23.3	23.5	23.9	23.5	23.7	23.9	23.3	23.9	24.2	20.7	21.2	21.8	18.5	19.2	19.7	22.1	22.8	23.3
12	19.2	20.1	20.6	21.0	22.3	23.2	22.8	23.9	24.6	23.0	24.1	24.9	24.1	24.6	25.1	23.6	24.1	24.9	23.1	23.5	23.8	23.2	23.5	23.8	23.4	23.7	24.0	23.7	23.9	24.2	20.9	21.4	22.2	18.3	18.9	19.7	22.2	22.8	23.4
13	19.6	20.1	20.5	21.9	23.0	23.8	22.7	23.8	24.3	23.3	24.0	24.6	24.4	24.8	25.1	23.8	24.3	24.7	23.2	23.7	24.3	23.3	23.7	24.0	23.6	23.9	24.3	23.6	24.0	24.2	21.8	22.1	22.5	18.5	19.1	19.8	22.5	23.0	23.5
14	19.1	19.9	20.4	22.0	23.0	23.8	22.7	23.9	24.5	23.1	24.2	24.9	24.0	24.6	25.2	23.7	24.0	24.2	23.2	23.6	23.9	23.2	23.6	24.2	23.7	24.0	24.4	23.8	23.9	24.2	21.6	22.0	22.3	18.8	19.2	19.8	22.4	23.0	23.5
15	18.7	19.7	20.5	21.4	22.7	23.7	23.0	23.8	24.4	23.6	24.3	24.8	24.0	24.6	25.0	23.7	24.0	24.3	23.1	23.5	24.0	23.4	23.7	24.3	24.0	24.2	24.7	23.5	24.0	24.3	21.6	22.0	22.3	18.4	19.0	19.5	22.4	23.0	23.5
16	18.8	19.6	20.5	21.2	22.6	23.7	22.4	23.5	24.1	23.9	24.3	24.7	23.6	24.5	25.4	23.4	23.7	24.4	23.3	23.6	24.0	23.3	23.8	24.3	24.0	24.3	24.7	23.6	23.9	24.2	21.5	22.0	22.4	18.1	18.5	18.9	22.3	22.9	23.4
17	18.7	19.6	20.3	21.7	22.7	23.3	22.2	23.4	24.2	23.6	24.3	24.8	23.8	24.5	24.9	23.3	23.6	24.2	23.5	23.8	24.5	23.4	23.7	24.1	24.0	24.3	24.5	23.6	24.1	24.3	22.2	22.4	22.8	18.0	18.4	19.0	22.3	22.9	23.4
18	18.7	19.5	20.3	22.2	23.0	23.3	22.0	23.5	24.3	23.6	24.4	25.0	24.0	24.6	24.9	23.6	23.9	24.1	23.1	23.8	24.2	23.3	23.6	23.8	24.0	24.3	24.5	23.7	23.9	24.2	21.8	22.2	22.6	18.3	18.8	19.2	22.4	22.9	23.4
19	18.8	20.1	21.2	21.4	22.4	23.3	22.9	23.6	24.3	23.5	24.6	25.2	24.3	24.5	24.7	23.4	23.8	24.2	23.1	23.8	24.3	23.4	23.7	24.0	24.1	24.3	24.4	23.8	24.0	24.3	21.1	21.8	22.4	18.3	18.8	19.3	22.3	22.9	23.5
20	19.0	20.5	21.3	20.9	22.0	22.9	22.5	23.8	24.5	23.8	24.7	25.2	24.1	24.5	24.6	23.7	23.9	24.2	23.3	23.6	24.1	23.5	23.7	24.1	23.7	24.1	24.4	23.2	24.0	24.2	21.2	21.4	21.8	18.2	18.8	19.4	22.3	22.9	23.4
21	19.6	20.7	21.4	21.2	22.1	22.9	23.0	24.0	24.6	24.1	24.7	25.3	24.2	24.5	24.9	23.6	23.9	24.3	23.3	23.8	24.1	23.4	23.8	24.1	23.8	24.1	24.5	22.8	23.3	23.8	20.5	21.1	21.8	18.4	18.8	19.5	22.3	22.9	23.4
22	20.0	21.0	21.6	20.4	21.8	22.9	22.8	23.7	24.4	23.1	24.1	24.9	24.0	24.4	24.7	23.3	23.6	24.1	23.4	23.7	24.2	23.4	23.7	24.2	23.7	24.0	24.5	22.8	23.1	23.6	20.0	20.6	21.4	17.8	18.2	18.8	22.1	22.7	23.3
23	19.9	20.9	21.8	21.0	22.2	23.1	23.3	24.0	24.4	23.5	24.2	25.0	24.1	24.4	24.9	23.0	23.4	23.9	23.0	23.6	23.9	23.2	23.5	23.8	23.8	24.1	24.4	22.7	23.1	23.5	20.2	20.7	21.2	17.3	17.8	18.2	22.1	22.6	23.2
24	19.9	21.0	21.7	22.0	22.7	23.3	22.8	23.8	24.5	23.9	24.5	25.0	24.2	24.5	24.9	22.9	23.3	24.0	23.1	23.6	24.1	23.3	23.6	24.0	23.9	24.2	24.6	22.7	23.1	23.4	19.9	20.4	21.0	16.8	17.4	18.1	22.1	22.7	23.2
25	19.6	20.8	21.6	21.8	22.9	23.7	23.1	23.7	24.3	23.6	24.5	25.3	24.0	24.4	24.9	22.9	23.4	24.0	23.5	23.7	23.9	23.4	23.6	24.1	23.9	24.1	24.4	22.4	22.8	23.2	19.9	20.3	21.0	16.5	17.1	18.0	22.0	22.6	23.2
26	19.0	20.3	21.6	22.0	23.1	23.6	22.1	23.7	24.4	23.7	24.4	24.8	24.1	24.5	25.0	23.2	23.5	23.9	23.2	23.6	24.1	23.2	23.6	23.9	23.9	24.1	24.3	21.8	22.5	23.1	20.3	20.7	21.4	16.7	17.4	18.5	21.9	22.6	23.2
27	18.9	19.7	20.5	22.5	23.3	24.0	22.9	23.8	24.3	23.8	24.4	25.0	24.3	24.5	24.7	23.1	23.5	23.8	23.0	23.6	24.0	23.1	23.7	24.1	24.1	24.4	24.7	21.7	22.5	22.8	20.5	21.0	21.8	17.0	17.7	18.7	22.1	22.7	23.2
28	18.2	18.9	19.4	23.0	23.6	24.1	23.0	23.7	24.4	23.8	24.2	24.9	24.2	24.4	24.7	23.3	23.5	23.7	23.0	23.3	23.7	23.2	23.6	24.2	24.1	24.4	24.9	21.6	22.3	22.9	20.4	21.0	21.4	17.1	17.9	19.1	22.1	22.6	23.1
29	18.5	19.1	20.3	21.0	22.7	24.0	23.0	23.8	24.4	23.9	24.5	25.0	24.2	24.6	25.1	23.0	23.3	23.5	23.1	23.3	23.6	23.0	23.5	23.9	24.0	24.3	24.7	22.1	22.6	23.0	19.9	20.4	20.8	17.5	18.4	19.1	21.9	22.5	23.1
30	18.7	19.6	20.9				22.9	24.0	24.8	23.9	24.6	25.0	24.0	24.4	24.8	23.0	23.5	24.4	23.3	23.6	24.0	23.5	23.7	24.0	24.0	24.4	24.8	21.7	22.4	23.1	20.1	20.3	20.8	18.5	18.9	19.5	22.1	22.7	23.3
31	19.2	20.3	21.4				22.7	23.7	24.5				24.0	24.4	25.0				23.3	23.8	24.3	23.5	23.8	24.2				21.6	22.1	22.7				18.9	19.5	20.2	21.9	22.5	23.2
Average	18.9	19.8	20.6	20.9	22.1	22.9	22.3	23.3	24.1	23.4	24.3	25.0	24.0	24.5	25.0	23.8	24.0	24.4	23.2	23.6	24.1	23.3	23.7	24.1	23.7	24.0	24.3	23.1	23.5	23.9	21.0	21.5	22.0	18.0	18.6	19.3	22.1	22.7	23.3
Extremes	3.2	26.2		8.6	27.3		7.1	33.1	11.5	28.0		17.3	28.7		18.4	27.6		17.4	27.2		18.1	26.9		18.9	29.1		11.9	27.9		9.0	26.9								

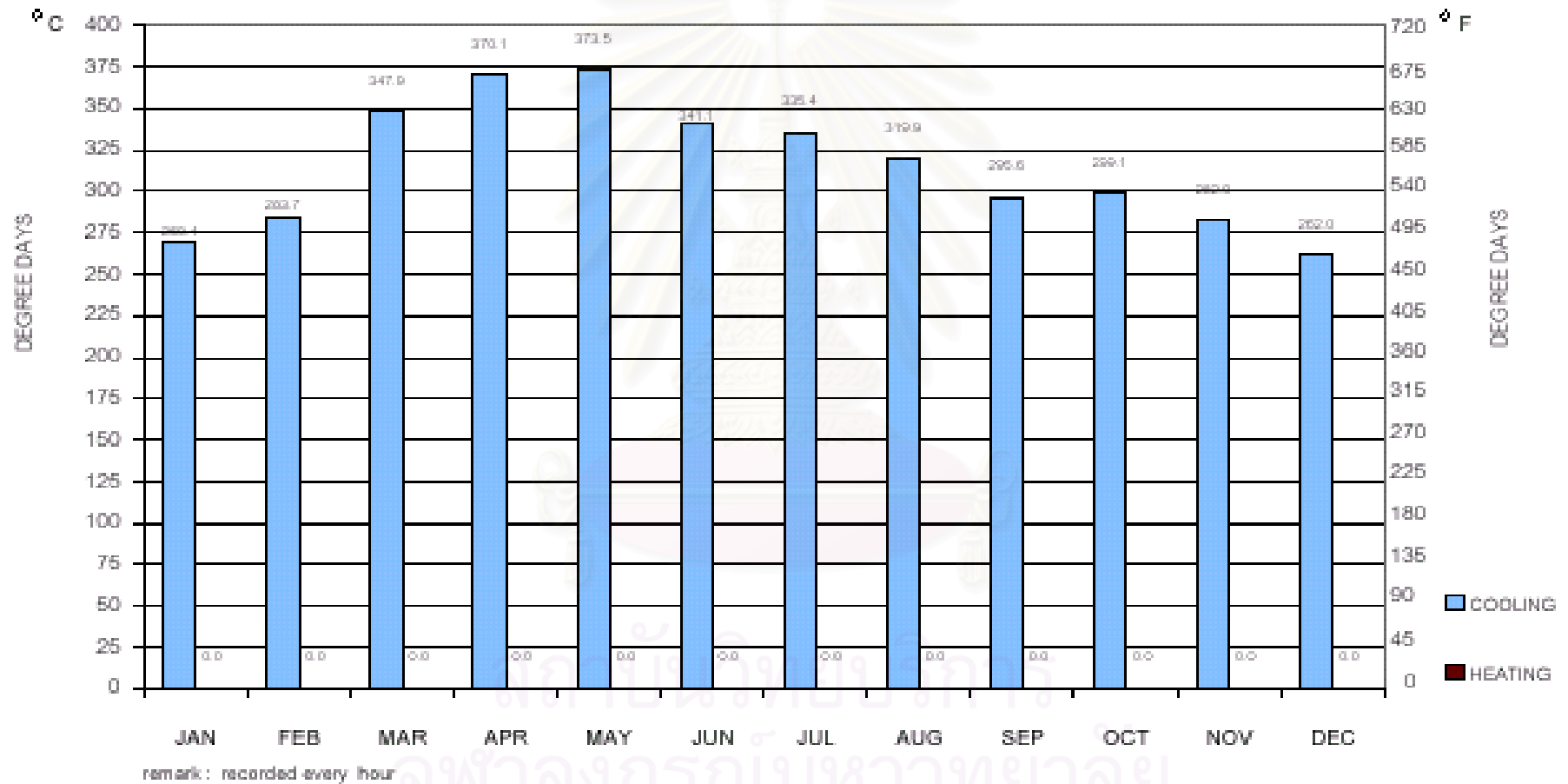
ตารางแสดงผลข้อมูลปริมาณองศาวัน การทำความร้อนและการทำความเย็น (heating and cooling degree days)

HEATING & COOLING DEGREE DAYS BASE RANGE 35 - 100 OF (1.7 - 37.8 OC) 1981 - 1998 (2524 - 2541)																	Station : BANGKOK METROPOLIS										
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	786.1	0.0	767.1	0.0	864.6	0.0	870.1	0.0	890.2	0.0	841.1	0.0	852.0	0.0	836.6	0.0	796.6	0.0	815.8	0.0	782.9	0.0	778.7	0.0	9,881.8	0.0
36	2.2	768.9	0.0	751.0	0.0	847.4	0.0	853.4	0.0	873.0	0.0	824.4	0.0	834.8	0.0	819.4	0.0	780.0	0.0	798.6	0.0	766.3	0.0	761.5	0.0	9,678.5	0.0
37	2.8	751.6	0.0	734.9	0.0	830.2	0.0	836.7	0.0	855.8	0.0	807.7	0.0	817.6	0.0	802.2	0.0	763.3	0.0	781.3	0.0	749.6	0.0	744.2	0.0	9,475.1	0.0
38	3.3	734.4	0.0	718.7	0.0	812.9	0.0	820.1	0.0	838.5	0.0	791.1	0.0	800.4	0.0	784.9	0.0	746.6	0.0	764.1	0.0	732.9	0.0	727.0	0.0	9,271.8	0.0
39	3.9	717.2	0.0	702.6	0.0	795.7	0.0	803.4	0.0	821.3	0.0	774.4	0.0	783.2	0.0	767.7	0.0	730.0	0.0	746.9	0.0	716.3	0.0	709.8	0.0	9,068.5	0.0
40	4.4	700.0	0.0	686.5	0.0	778.5	0.0	786.7	0.0	804.1	0.0	757.7	0.0	765.9	0.0	750.5	0.0	713.3	0.0	729.7	0.0	699.6	0.0	692.6	0.0	8,865.1	0.0
41	5.0	682.8	0.0	670.4	0.0	761.3	0.0	770.1	0.0	786.9	0.0	741.1	0.0	748.7	0.0	733.3	0.0	696.6	0.0	712.4	0.0	682.9	0.0	675.4	0.0	8,661.8	0.0
42	5.6	665.5	0.0	654.3	0.0	744.0	0.0	753.4	0.0	769.7	0.0	724.4	0.0	731.5	0.0	716.1	0.0	680.0	0.0	695.2	0.0	666.3	0.0	658.1	0.0	8,458.5	0.0
43	6.1	648.3	0.0	638.2	0.0	726.8	0.0	736.7	0.0	752.4	0.0	707.7	0.0	714.3	0.0	698.8	0.0	663.3	0.0	678.0	0.0	649.6	0.0	640.9	0.0	8,255.1	0.0
44	6.7	631.1	0.0	622.1	0.0	709.6	0.0	720.1	0.0	735.2	0.0	691.1	0.0	697.0	0.0	681.6	0.0	646.6	0.0	660.8	0.0	632.9	0.0	623.7	0.0	8,051.8	0.0
45	7.2	613.9	0.0	606.0	0.0	692.4	0.0	703.4	0.0	718.0	0.0	674.4	0.0	679.8	0.0	664.4	0.0	630.0	0.0	643.6	0.0	616.3	0.0	606.5	0.0	7,848.5	0.0
46	7.8	596.6	0.0	589.9	0.0	675.2	0.0	686.7	0.0	700.8	0.0	657.7	0.0	662.6	0.0	647.2	0.0	613.3	0.0	626.3	0.0	599.6	0.0	589.2	0.0	7,645.1	0.0
47	8.3	579.4	0.0	573.7	0.0	657.9	0.0	670.1	0.0	683.5	0.0	641.1	0.0	645.4	0.0	629.9	0.0	596.6	0.0	609.1	0.0	582.9	0.0	572.0	0.0	7,441.8	0.0
48	8.9	562.2	0.0	557.6	0.0	640.7	0.0	653.4	0.0	666.3	0.0	624.4	0.0	628.2	0.0	612.7	0.0	580.0	0.0	591.9	0.0	566.3	0.0	554.8	0.0	7,238.5	0.0
49	9.4	545.0	0.0	541.5	0.0	623.5	0.0	636.7	0.0	649.1	0.0	607.7	0.0	610.9	0.0	596.5	0.0	563.3	0.0	574.7	0.0	549.6	0.0	537.6	0.0	7,035.1	0.0
50	10.0	527.8	0.0	525.4	0.0	606.3	0.0	620.1	0.0	631.9	0.0	591.1	0.0	593.7	0.0	578.3	0.0	546.6	0.0	557.4	0.0	532.9	0.0	520.4	0.0	6,831.8	0.0
51	10.6	510.5	0.0	509.3	0.0	589.0	0.0	603.4	0.0	614.7	0.0	574.4	0.0	576.5	0.0	561.1	0.0	530.0	0.0	540.2	0.0	516.3	0.0	503.1	0.0	6,628.5	0.0
52	11.1	493.3	0.0	493.2	0.0	571.8	0.0	586.7	0.0	597.4	0.0	557.7	0.0	559.3	0.0	543.8	0.0	513.3	0.0	523.0	0.0	499.6	0.0	485.9	0.0	6,425.1	0.0
53	11.7	476.1	0.0	477.1	0.0	554.6	0.0	570.1	0.0	580.2	0.0	541.1	0.0	542.0	0.0	526.6	0.0	496.6	0.0	505.8	0.0	482.9	0.0	468.7	0.0	6,221.8	0.0
54	12.2	458.9	0.0	461.0	0.0	537.4	0.0	553.4	0.0	563.0	0.0	524.4	0.0	524.8	0.0	509.4	0.0	480.0	0.0	488.6	0.0	466.3	0.0	451.5	0.0	6,018.5	0.0
55	12.8	441.6	0.0	444.9	0.0	520.2	0.0	536.7	0.0	545.8	0.0	507.7	0.0	507.6	0.0	492.2	0.0	463.3	0.0	471.3	0.0	449.6	0.0	434.2	0.0	5,815.1	0.0
56	13.3	424.4	0.0	428.7	0.0	502.9	0.0	520.1	0.0	528.5	0.0	491.1	0.0	490.4	0.0	474.9	0.0	446.6	0.0	454.1	0.0	432.9	0.0	417.0	0.0	5,611.8	0.0
57	13.9	407.2	0.0	412.6	0.0	485.7	0.0	503.4	0.0	511.3	0.0	474.4	0.0	473.2	0.0	457.7	0.0	430.0	0.0	436.9	0.0	416.3	0.0	399.8	0.0	5,408.5	0.0
58	14.4	390.0	0.0	396.5	0.0	468.5	0.0	486.7	0.0	494.1	0.0	457.7	0.0	455.9	0.0	440.5	0.0	413.3	0.0	419.7	0.0	399.6	0.0	382.6	0.0	5,205.1	0.0
59	15.0	372.8	0.0	380.4	0.0	451.3	0.0	470.1	0.0	476.9	0.0	441.1	0.0	438.7	0.0	423.3	0.0	396.6	0.0	402.4	0.0	382.9	0.0	365.4	0.0	5,001.8	0.0
60	15.6	355.5	0.0	364.3	0.0	434.0	0.0	453.4	0.0	459.7	0.0	424.4	0.0	421.5	0.0	406.1	0.0	380.0	0.0	385.2	0.0	366.3	0.0	348.1	0.0	4,798.5	0.0
61	16.1	338.3	0.0	348.2	0.0	416.8	0.0	436.7	0.0	442.4	0.0	407.7	0.0	404.3	0.0	388.8	0.0	363.3	0.0	368.0	0.0	349.6	0.0	330.9	0.0	4,595.1	0.0
62	16.7	321.1	0.0	332.1	0.0	399.6	0.0	420.1	0.0	425.2	0.0	391.1	0.0	387.0	0.0	371.6	0.0	346.6	0.0	350.8	0.0	332.9	0.0	313.7	0.0	4,391.8	0.0
63	17.2	303.9	0.0	316.0	0.0	382.4	0.0	403.4	0.0	408.0	0.0	374.4	0.0	369.8	0.0	354.4	0.0	330.0	0.0	333.6	0.0	316.3	0.0	296.5	0.0	4,188.5	0.0
64	17.8	286.6	0.0	299.9	0.0	365.2	0.0	386.7	0.0	390.8	0.0	357.7	0.0	352.6	0.0	337.2	0.0	313.3	0.0	316.3	0.0	298.6	0.0	279.2	0.0	3,985.1	0.0
65	18.3	269.4	0.0	283.7	0.0	347.9	0.0	370.1	0.0	373.5	0.0	341.1	0.0	335.4	0.0	319.9	0.0	296.6	0.0	299.1	0.0	282.9	0.0	262.0	0.0	3,781.8	0.0
66	18.9	252.2	0.0	267.6	0.0	330.7	0.0	353.4	0.0	356.3	0.0	324.4	0.0	318.2	0.0	302.7	0.0	280.0	0.0	281.9	0.0	266.3	0.0	244.8	0.0	3,578.5	0.0
67	19.4	235.0	0.0	251.5	0.0	313.5	0.0	336.7	0.0	339.1	0.0	307.7	0.0	300.9	0.0	285.5	0.0	263.3	0.0	264.7	0.0	249.6	0.0	227.6	0.0	3,375.1	0.0
68	20.0	217.8	0.0	235.4	0.0	296.3	0.0	320.1	0.0	321.9	0.0	291.1	0.0	283.7	0.0	268.3	0.0	246.6	0.0	247.4	0.0	232.9	0.0	210.4	0.0	3,171.8	0.0

HEATING & COOLING DEGREE DAYS BASE RANGE 35 - 100 OF (1.7 - 37.8 OC) 1981 - 1998 (2524 - 2541)														Station : BANGKOK METROPOLIS													
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	200.5	0.0	219.3	0.0	279.0	0.0	303.4	0.0	304.7	0.0	274.4	0.0	266.5	0.0	251.1	0.0	230.0	0.0	230.2	0.0	216.3	0.0	193.1	0.0	2,968.5	0.0
70	21.1	183.3	0.0	203.2	0.0	261.8	0.0	286.7	0.0	287.4	0.0	257.7	0.0	249.3	0.0	233.8	0.0	213.3	0.0	213.0	0.0	199.6	0.0	175.9	0.0	2,765.1	0.0
71	21.7	166.1	0.0	187.1	0.0	244.6	0.0	270.1	0.0	270.2	0.0	241.1	0.0	232.0	0.0	216.6	0.0	196.6	0.0	195.8	0.0	182.9	0.0	158.7	0.0	2,561.8	0.0
72	22.2	148.9	0.0	171.0	0.0	227.4	0.0	253.4	0.0	253.0	0.0	224.4	0.0	214.8	0.0	199.4	0.0	180.0	0.0	178.6	0.0	166.3	0.0	141.5	0.0	2,358.5	0.0
73	22.8	131.6	0.0	154.9	0.0	210.2	0.0	236.7	0.0	235.8	0.0	207.7	0.0	197.6	0.0	182.2	0.0	163.3	0.0	161.3	0.0	149.6	0.0	124.2	0.0	2,155.1	0.0
74	23.3	114.4	0.0	138.7	0.0	192.9	0.0	220.1	0.0	218.5	0.0	191.1	0.0	180.4	0.0	164.9	0.0	146.6	0.0	144.1	0.0	132.9	0.0	107.0	0.0	1,951.8	0.0
75	23.9	97.2	0.0	122.6	0.0	175.7	0.0	203.4	0.0	201.3	0.0	174.4	0.0	163.2	0.0	147.7	0.0	130.0	0.0	126.9	0.0	116.3	0.0	89.8	0.0	1,748.5	0.0
76	24.4	80.0	0.0	106.5	0.0	158.5	0.0	186.7	0.0	184.1	0.0	157.7	0.0	145.9	0.0	130.5	0.0	113.3	0.0	109.7	0.0	99.6	0.0	72.6	0.0	1,545.1	0.0
77	25.0	62.8	0.0	90.4	0.0	141.3	0.0	170.1	0.0	166.9	0.0	141.1	0.0	128.7	0.0	113.3	0.0	96.6	0.0	92.4	0.0	82.9	0.0	55.6	-0.2	1,342.0	-0.2
78	25.6	45.5	0.0	74.3	0.0	124.0	0.0	153.4	0.0	149.7	0.0	124.4	0.0	111.5	0.0	96.1	0.0	80.0	0.0	75.2	0.0	66.3	0.0	39.0	-0.8	1,139.3	-0.8
79	26.1	28.3	0.0	58.2	0.0	106.8	0.0	136.7	0.0	132.4	0.0	107.7	0.0	94.3	0.0	78.8	0.0	63.3	0.0	58.0	0.0	49.6	0.0	24.1	-3.2	938.3	-3.2
80	26.7	12.1	-1.0	42.1	0.0	89.6	0.0	120.1	0.0	115.2	0.0	91.1	0.0	77.0	0.0	61.6	0.0	46.6	0.0	40.8	0.0	32.9	0.0	12.4	-8.7	741.5	-9.6
81	27.2	2.0	-8.1	26.5	-0.5	72.4	0.0	103.4	0.0	98.0	0.0	74.4	0.0	59.8	0.0	44.4	0.0	30.0	0.0	23.6	0.0	17.2	-0.9	4.3	-17.9	555.9	-27.4
82	27.8	0.0	-23.4	13.7	-3.8	55.2	0.0	86.7	0.0	80.8	0.0	57.7	0.0	42.6	0.0	27.2	0.0	13.7	-0.4	7.6	-1.3	4.4	-4.8	0.8	-31.5	390.4	-65.3
83	28.3	0.0	-40.6	3.8	-10.1	37.9	0.0	70.1	0.0	63.5	0.0	41.1	0.0	25.6	-0.3	10.9	-1.0	1.9	-5.3	0.7	-11.6	0.2	-17.3	0.0	-48.0	255.9	-134.1
84	28.9	0.0	-57.8	0.0	-22.4	20.8	-0.1	53.4	0.0	46.3	0.0	24.4	0.0	10.0	-1.8	1.5	-8.8	0.0	-20.0	0.0	-28.1	0.0	-33.7	0.0	-65.2	156.4	-238.0
85	29.4	0.0	-75.0	0.0	-38.5	5.9	-2.5	36.7	0.0	30.0	-0.9	9.6	-1.8	1.4	-10.5	0.0	-24.5	0.0	-36.7	0.0	-45.3	0.0	-50.4	0.0	-82.4	83.7	-368.9
86	30.0	0.0	-92.3	0.0	-54.6	0.8	-14.5	20.1	0.0	15.9	-4.1	1.4	-10.4	0.0	-26.3	0.0	-41.7	0.0	-53.4	0.0	-62.6	0.0	-67.1	0.0	-99.6	38.3	-526.9
87	30.6	0.0	-109.5	0.0	-70.7	0.0	-31.0	6.8	-3.4	6.3	-11.7	0.0	-25.6	0.0	-43.5	0.0	-58.9	0.0	-70.0	0.0	-79.8	0.0	-83.7	0.0	-116.9	13.1	-704.6
88	31.1	0.0	-126.7	0.0	-86.8	0.0	-48.2	0.5	-13.7	1.8	-24.4	0.0	-42.3	0.0	-60.7	0.0	-76.2	0.0	-86.7	0.0	-97.0	0.0	-100.4	0.0	-134.1	2.3	-897.1
89	31.7	0.0	-143.9	0.0	-102.9	0.0	-65.4	0.0	-29.9	0.1	-39.9	0.0	-58.9	0.0	-78.0	0.0	-93.4	0.0	-103.4	0.0	-114.2	0.0	-117.1	0.0	-151.3	0.1	-1,098.3
90	32.2	0.0	-161.1	0.0	-119.0	0.0	-82.6	0.0	-46.6	0.0	-57.0	0.0	-75.6	0.0	-95.2	0.0	-110.6	0.0	-120.0	0.0	-131.4	0.0	-133.7	0.0	-168.5	0.0	-1,301.9
91	32.8	0.0	-178.4	0.0	-135.1	0.0	-99.8	0.0	-63.3	0.0	-74.2	0.0	-92.3	0.0	-112.4	0.0	-127.8	0.0	-136.7	0.0	-148.7	0.0	-150.4	0.0	-185.8	0.0	-1,504.9
92	33.3	0.0	-196.6	0.0	-151.3	0.0	-117.1	0.0	-79.9	0.0	-91.5	0.0	-108.9	0.0	-129.6	0.0	-145.1	0.0	-153.4	0.0	-165.9	0.0	-167.1	0.0	-203.0	0.0	-1,708.2
93	33.9	0.0	-212.8	0.0	-167.4	0.0	-134.3	0.0	-96.6	0.0	-108.7	0.0	-125.6	0.0	-146.8	0.0	-162.3	0.0	-170.0	0.0	-183.1	0.0	-183.7	0.0	-220.2	0.0	-1,911.5
94	34.4	0.0	-230.0	0.0	-183.5	0.0	-151.5	0.0	-113.3	0.0	-125.9	0.0	-142.3	0.0	-164.1	0.0	-179.5	0.0	-186.7	0.0	-200.3	0.0	-200.4	0.0	-237.4	0.0	-2,114.9
95	35.0	0.0	-247.3	0.0	-199.6	0.0	-168.7	0.0	-129.9	0.0	-143.1	0.0	-158.9	0.0	-181.3	0.0	-196.7	0.0	-203.4	0.0	-217.6	0.0	-217.1	0.0	-254.6	0.0	-2,318.2
96	35.6	0.0	-264.5	0.0	-215.7	0.0	-186.0	0.0	-146.6	0.0	-160.3	0.0	-175.6	0.0	-198.5	0.0	-213.9	0.0	-220.0	0.0	-234.8	0.0	-233.7	0.0	-271.9	0.0	-2,521.5
97	36.1	0.0	-281.7	0.0	-231.8	0.0	-203.2	0.0	-163.3	0.0	-177.6	0.0	-192.3	0.0	-215.7	0.0	-231.2	0.0	-236.7	0.0	-252.0	0.0	-250.4	0.0	-289.1	0.0	-2,724.9
98	36.7	0.0	-298.9	0.0	-247.9	0.0	-220.4	0.0	-179.9	0.0	-194.8	0.0	-208.9	0.0	-233.0	0.0	-248.4	0.0	-253.4	0.0	-269.2	0.0	-267.1	0.0	-306.3	0.0	-2,928.2
99	37.2	0.0	-316.1	0.0	-264.0	0.0	-237.6	0.0	-196.6	0.0	-212.0	0.0	-225.6	0.0	-250.2	0.0	-265.6	0.0	-270.0	0.0	-286.4	0.0	-283.7	0.0	-323.5	0.0	-3,131.9
100	37.8	0.0	-333.4	0.0	-280.1	0.0	-254.8	0.0	-213.3	0.0	-229.2	0.0	-242.3	0.0	-267.4	0.0	-282.8	0.0	-286.7	0.0	-303.7	0.0	-300.4	0.0	-340.8	0.0	-3,334.9

แผนภูมิปริมาณองศาวัน การทำความร้อนและการทำความเย็น (heating and cooling degree days)

HEATING & COOLING DEGREE DAYS (BASE 65°F/18.3°C) 1981 - 1988 (2524 - 2541) Station : BANGKOK METROPOLIS

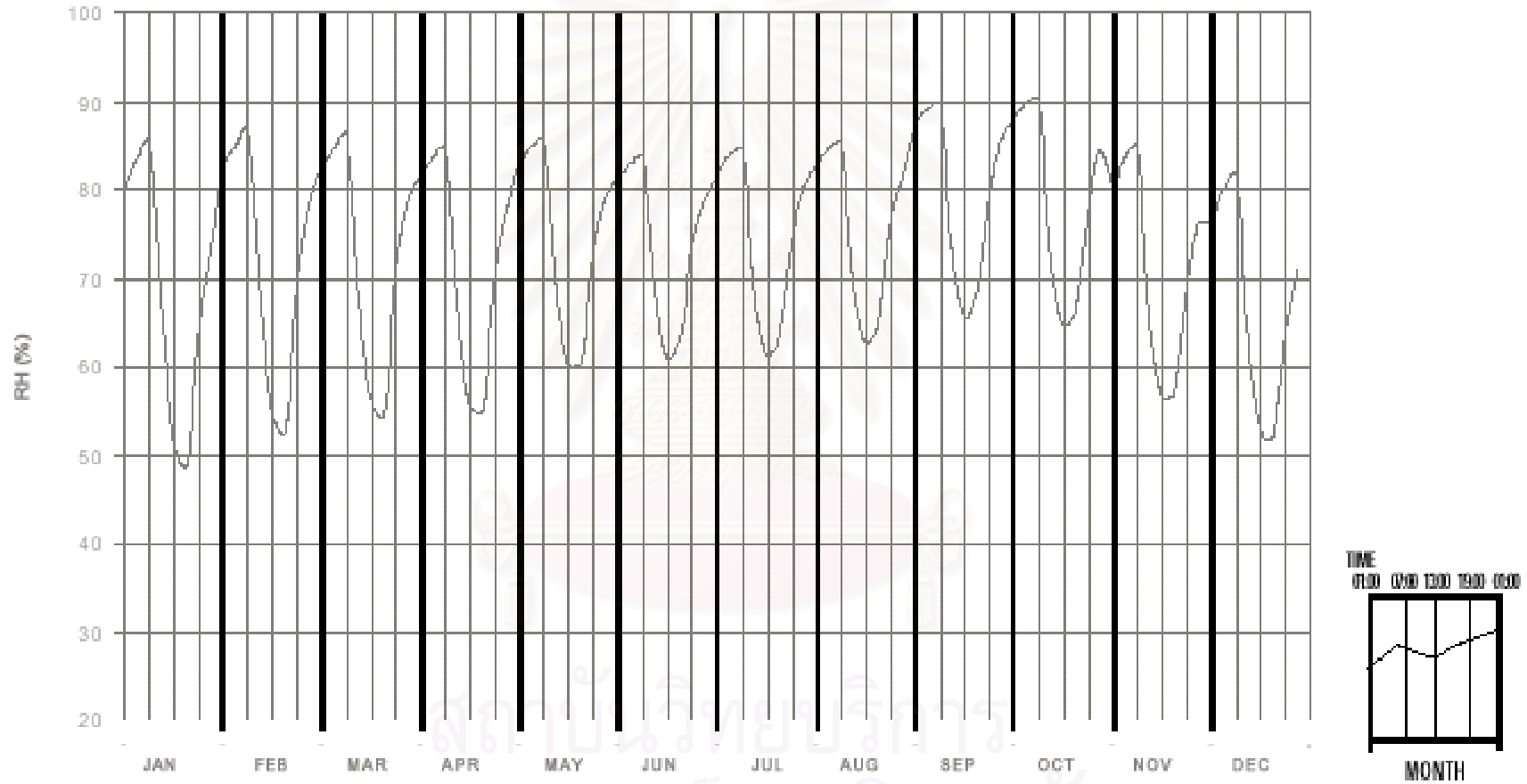


ตารางแสดงผลข้อมูลความชื้นสัมพัทธ์ (relative humidity)

RELATIVE HUMIDITY (%) 1981 - 1998 (2524 - 2541)														Station : BANGKOK METROPOLIS																									
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	51.1	71.1	86.5	50.4	68.8	81.9	54.4	72.5	85.7	55.7	72.8	88.5	52.7	70.6	84.6	60.8	74.8	85.1	60.1	72.0	82.1	63.1	75.2	84.2	64.1	77.3	87.2	68.6	81.9	92.6	58.2	73.7	87.1	57.9	69.9	81.6	58.1	73.4	85.6
2	49.8	69.6	84.8	49.6	69.4	84.7	52.4	70.4	84.8	52.5	70.7	85.8	53.6	70.7	84.6	60.9	74.2	84.9	61.2	73.1	82.7	62.1	75.9	85.9	64.2	78.0	88.1	67.8	80.9	91.2	57.4	73.9	86.5	56.9	69.8	81.8	57.4	73.0	85.4
3	52.1	70.7	86.7	50.2	69.3	83.8	46.7	68.1	84.4	50.6	70.8	84.7	56.4	71.9	83.7	60.2	74.5	84.1	62.2	73.6	81.0	64.2	76.4	84.9	59.3	77.0	86.8	63.5	79.9	89.8	59.3	73.6	85.8	55.4	69.6	82.6	56.7	73.0	84.9
4	52.2	71.5	88.2	51.5	70.8	84.7	50.8	70.1	86.7	54.5	71.9	84.3	53.5	70.5	84.2	58.3	73.5	84.4	62.2	75.3	85.6	62.0	75.5	83.9	62.6	77.5	89.3	67.8	81.3	90.9	58.3	73.6	87.1	54.6	69.2	82.3	57.4	73.4	86.0
5	51.7	69.8	85.5	51.6	71.1	84.4	53.8	71.5	84.3	52.1	72.4	86.7	58.4	72.3	82.8	61.2	74.3	83.4	61.8	76.2	85.3	61.4	76.7	87.8	60.8	75.2	86.0	64.7	80.4	90.7	56.7	72.6	86.8	53.3	68.5	82.1	57.3	73.4	85.5
6	47.6	68.3	85.1	49.1	70.1	86.3	54.8	73.0	87.1	54.7	71.3	85.3	57.7	72.7	83.1	62.5	76.0	85.2	65.9	77.2	87.3	61.7	75.5	85.2	63.1	76.5	86.7	63.8	78.8	90.6	55.8	71.9	87.1	54.1	68.7	81.9	57.6	73.3	85.9
7	47.2	67.1	83.6	47.6	70.5	86.3	54.9	73.3	87.5	52.7	70.7	83.8	54.3	73.1	87.2	64.2	76.4	85.7	58.1	73.5	85.1	62.9	76.0	84.8	62.4	76.4	86.0	62.4	78.8	91.4	54.3	71.4	84.5	53.6	67.9	80.8	56.2	72.9	85.6
8	46.0	66.6	86.7	48.2	70.5	85.7	54.8	72.7	87.2	52.3	70.4	83.6	60.3	75.4	86.2	63.1	76.4	86.5	57.5	72.6	82.4	61.8	75.8	85.1	64.8	77.9	88.7	64.4	79.2	90.4	55.6	71.3	84.3	51.7	67.6	81.9	56.7	73.0	85.7
9	46.3	66.6	82.6	50.2	70.3	85.4	53.1	71.7	86.1	52.8	70.6	85.2	64.2	76.0	86.8	64.1	77.6	89.2	59.8	74.8	86.8	60.5	75.1	85.6	64.6	78.8	88.4	70.4	82.6	91.5	57.2	71.8	83.3	51.2	66.5	79.9	57.9	73.5	85.9
10	46.5	67.7	86.6	50.4	71.8	87.7	53.3	72.5	86.8	52.7	70.3	84.6	57.9	74.2	85.9	61.9	76.3	85.1	60.6	74.5	83.4	61.8	75.5	84.1	65.6	79.9	88.7	68.8	83.3	93.2	56.4	70.7	83.2	51.3	66.7	80.7	57.3	73.6	85.8
11	49.4	68.9	85.8	53.3	72.5	87.3	54.7	73.6	88.4	49.2	69.1	84.3	60.1	74.9	87.4	62.6	76.0	85.7	60.9	75.4	85.1	62.8	75.7	87.9	65.3	80.3	89.8	64.0	80.5	92.1	56.5	71.6	85.2	53.9	68.8	80.6	57.7	73.9	86.6
12	50.0	70.8	86.8	52.9	73.6	87.9	55.4	74.0	87.9	53.7	70.2	81.8	60.7	74.7	87.5	61.6	74.2	84.4	62.0	75.3	85.6	61.9	74.7	85.3	65.1	79.4	91.0	66.8	80.3	90.2	55.3	71.3	84.3	50.9	67.5	81.5	58.0	73.8	86.2
13	50.6	70.7	87.9	54.8	74.9	88.4	55.4	74.0	87.8	55.2	72.2	85.0	60.5	74.9	88.6	60.8	75.0	85.7	61.7	76.0	85.5	62.6	76.4	86.2	61.9	78.7	88.6	69.6	82.3	93.3	59.3	74.2	86.7	52.3	68.5	82.5	58.7	74.8	87.2
14	48.6	69.8	87.5	55.0	74.5	89.5	55.8	74.1	87.8	56.4	73.0	85.3	62.3	75.3	86.6	63.7	73.6	83.1	62.9	74.9	86.6	60.2	74.8	84.7	64.6	78.6	89.1	66.4	80.4	92.3	59.9	74.7	87.2	51.8	68.2	83.2	59.0	74.3	86.9
15	47.1	68.7	84.8	53.9	73.6	87.7	55.6	73.9	87.6	56.6	73.2	86.2	58.7	74.6	87.2	59.7	73.7	84.6	60.9	74.7	85.9	60.9	74.3	83.6	67.3	79.3	89.9	66.2	79.8	91.2	56.7	72.7	85.2	51.6	67.6	81.7	57.9	73.9	86.3
16	47.6	68.1	84.8	53.8	73.5	88.6	53.3	72.2	87.8	57.1	73.6	86.0	54.7	72.8	85.4	59.7	73.0	82.4	59.9	74.7	86.6	61.9	75.1	83.6	65.2	79.4	89.1	69.1	80.9	91.6	57.6	73.8	88.1	51.6	66.4	80.1	57.6	73.6	86.2
17	48.1	69.1	87.0	55.4	74.3	88.6	52.7	71.7	85.7	57.6	72.7	84.9	57.8	72.5	85.1	58.9	71.7	81.3	61.2	75.2	84.5	62.1	75.3	85.1	69.0	81.5	91.2	67.5	81.7	91.1	60.8	74.5	86.1	50.7	67.0	82.3	58.5	73.9	86.1
18	46.6	67.7	83.6	56.1	75.2	90.0	52.2	71.9	85.6	54.8	72.0	84.7	63.3	75.4	85.6	59.5	73.5	84.2	59.0	74.8	84.3	63.5	76.2	86.1	68.7	82.8	91.7	67.0	81.4	91.3	57.7	73.4	86.4	52.3	68.3	83.4	58.4	74.4	86.4
19	47.8	69.9	86.0	53.3	72.7	88.9	54.0	71.7	85.6	52.3	71.4	84.7	61.8	76.4	86.2	60.8	75.7	83.3	58.6	74.2	83.7	65.1	77.4	85.8	67.5	81.4	93.2	71.2	82.8	91.8	54.7	72.3	85.7	51.7	67.8	83.3	58.2	74.5	86.5
20	47.4	71.0	88.4	52.0	71.3	86.2	55.3	73.1	87.6	54.3	71.6	84.4	63.1	76.4	87.8	62.2	75.2	84.9	61.9	74.9	84.3	66.6	78.4	86.6	71.2	82.5	91.4	66.4	81.0	92.4	55.2	70.9	85.4	50.3	67.2	82.3	58.8	74.5	86.8
21	50.1	70.9	87.8	53.6	71.8	86.8	56.8	74.1	87.0	56.2	72.2	83.4	61.9	75.4	85.2	61.4	74.2	84.4	62.3	76.1	87.1	63.9	77.2	87.7	64.5	79.9	91.9	63.2	77.8	89.1	53.4	69.9	84.2	50.6	67.0	82.9	58.2	73.9	86.5
22	52.0	72.2	89.1	49.5	70.1	84.8	54.4	72.4	84.8	54.9	71.4	83.8	60.3	74.6	86.9	60.7	72.9	82.1	62.4	75.3	86.2	62.7	76.6	86.2	65.0	79.5	91.2	62.4	77.3	89.5	52.4	68.5	82.2	50.6	65.7	80.1	57.3	73.0	85.6
23	51.7	71.6	87.7	54.0	71.4	84.7	56.8	73.0	86.2	53.9	70.4	82.6	60.1	73.5	83.5	58.7	70.7	80.2	60.8	74.9	85.1	61.9	75.0	84.3	64.9	80.0	91.4	61.3	76.8	89.6	53.3	69.1	82.2	47.9	65.3	80.6	57.1	72.6	84.8
24	51.7	72.2	87.8	56.1	72.6	86.1	54.4	72.7	87.1	55.4	71.5	86.0	63.1	75.2	84.0	57.7	71.3	80.3	61.9	75.1	83.8	63.9	76.7	84.3	67.8	82.3	92.5	62.2	76.3	88.8	52.8	68.9	83.2	48.9	65.4	81.2	58.0	73.3	85.4
25	49.9	70.7	84.8	54.6	73.6	87.4	55.3	71.8	85.6	55.7	72.4	85.1	61.4	74.5	84.8	59.9	71.4	80.0	63.1	76.3	85.2	62.1	77.0	85.1	66.2	81.6	91.4	61.1	76.2	87.9	53.7	68.9	82.1	49.3	66.0	81.6	57.7	73.4	85.1
26	51.2	69.9	85.8	55.8	73.6	88.3	53.9	72.7	86.3	57.4	72.8	86.4	60.5	75.4	85.6	60.9	72.5	81.5	61.7	74.5	84.2	63.8	77.6	88.2	66.6	81.3	92.3	58.6	74.9	87.7	54.3	69.0	83.3	47.8	64.9	80.4	57.7	73.3	85.8
27	48.4	68.0	84.8	56.7	74.3	89.5	59.7	74.2	85.7	54.6	72.8	86.8	61.1	76.2	87.6	63.2	74.2	82.5	60.2	74.3	84.2	60.7	76.1	85.8	66.2	81.9	91.6	57.6	75.4	87.9	56.1	70.3	84.0	51.7	65.3	78.7	58.0	73.6	85.8
28	45.6	65.2	81.9	57.9	74.5	88.2	56.2	72.9	87.3	57.7	71.8	82.8	61.4	75.4	86.3	62.7	74.8	83.7	59.8	73.0	83.6	60.2	75.2	84.5	66.3	81.8	91.9	56.3	73.1	86.9	57.7	70.9	83.1	49.4	66.3	81.6	57.6	72.9	85.2
29	45.9	64.8	79.8	51.5	71.6	89.8	53.6	71.9	86.1	57.0	72.8	86.3	61.9	76.6	86.7	59.4	72.6	84.0	62.4	74.4	84.9	61.3	75.0	82.8	68.4	82.7	92.9	59.3	75.9	88.0	53.3	69.6	84.8	50.4	67.5	81.9	57.0	72.9	85.7
30	45.9	66.2	81.3				56.7	72.5	84.9	57.6	72.3	84.5	61.0	75.8	85.1	60.8	73.0	80.7	62.8	74.8	82.2	65.4	77.4	87.1	70.1	82.4	91.7	58.7	75.3	89.2	55.4	69.2	83.0	50.3	69.4	84.7	58.6	73.5	84.9
31	47.3	68.6	83.9				55.3	71.7	84.8				64.2	75.7	86.2				64.4	76.8	86.9	62.6	76.9	86.7				59.2	75.0	87.0				52.6	71.3	85.9	58.0	73.7	85.9
Average	48.8	69.2	85.6	52.7	72.1	86.9	54.4	72.4	86.4	54.6	71.7	84.9	59.6	74.3	85.8	61.1	74.1	83.6	61.3	74.8	84.7	62.5	76.0	85.3	65.4	79.7	90.0	64.4	78.1	90.4	56.2	71.8	84.9	51.8	67.6	81.8	57.7	73.6	85.9
Extremes	26		99	21		99	18		100	23		100	34		99	39		99	40		100	43		98	45		100	33		100	32		99	30		99	18		100

แผนภูมิความชื้นสัมพัทธ์ (relative humidity)

RELATIVE HUMIDITY (%) 1981-1998 (2524-2541) Station : BANGKOK METROPOLIS



remark : recorded every 3 hours

สถาบันวิจัยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

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

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

January											February											March																
kt	km/h	mi/h	N	NE	E	SE	S	SW	W	NW	Calm	Total	kt	km/h	mi/h	N	NE	E	SE	S	SW	W	NW	Calm	Total	kt	km/h	mi/h	N	NE	E	SE	S	SW	W	NW	Calm	Total
49.9 49.9											30.2 30.2											22.7 22.7																
1-3	2-6	0.6-1.5	2	3.4	3	1.3	3.4	1.8	1.1	0.6	15.6	1-3	2-6	0.6-1.5	0.4	0.9	1.4	1	7.8	3.3	0.8	0.2	15.6	1-3	2-6	0.6-1.5	0.4	0.9	0.9	1.2	7.2	2.4	1.1	0.2	13.6			
4-15	7-20	1.6-8.5	1.7	7.4	7.7	2.5	5.8	5.9	1.8	0.3	33.1	4-15	7-20	1.6-8.5	0.8	2.3	4.7	2.3	22	18.2	5.3	0.3	53.0	4-15	7-20	1.6-8.5	0.8	1.2	2.1	2.8	30.5	20.2	5.8	0.4	63.8			
17-27	31-50	8.6-14	0	0	0	0	0	0	0	0	0	17-27	31-50	8.6-14	0	0	0	0	0	0	0	0	0	17-27	31-50	8.6-14	0	0	0	0	0	0	0	0	0			
>27	>50	>14	0	0	0	0	0	0	0	0	0	>27	>50	>14	0	0	0	0	0	0	0	0	0	>27	>50	>14	0	0	0	0	0	0	0	0	0			
Total											Total											Total																
3.7 10.8 10.7 3.8 9.2 7.7 2.9 0.9 49.9 100											1.2 3.2 6.1 3.3 29.8 19.5 8.1 0.5 30.2 100											1.2 1.5 2.9 4 37.7 22.8 6.9 0.6 22.7 100																
April											May											June																
30 30											41.4 41.4											35.0 35.0																
1-3	2-6	0.6-1.5	0.4	0.7	0.9	0.6	7.5	2.8	1.8	0.3	14.6	1-3	2-6	0.6-1.5	0.6	0.6	0.9	1.1	8.3	2.2	2.3	0.8	14.5	1-3	2-6	0.6-1.5	0.2	0.1	0.3	0.8	4.2	3.4	3.9	1	13.7			
4-15	7-20	1.6-8.5	0.6	0.8	1.5	3	25	17.4	8	0.9	55.2	4-15	7-20	1.6-8.5	0.6	0.8	1.4	3	15.5	13.9	7.9	1.2	44.3	4-15	7-20	1.6-8.5	0.2	0.1	0.3	1	14.1	18.9	13.8	2.6	49			
17-27	31-50	8.6-14	0	0	0	0	0	0	0	0	0	17-27	31-50	8.6-14	0	0	0	0	0	0	0	0	0	17-27	31-50	8.6-14	0	0	0	0	0	0	0	0	0			
>27	>50	>14	0	0	0	0	0	0	0	0	0	>27	>50	>14	0	0	0	0	0	0	0	0	0	>27	>50	>14	0	0	0	0	0	0	0	0	0			
Total											Total											Total																
1 1.5 2.4 3.6 32.5 20 7.8 1.2 30 100											1.2 1.3 2.3 4.1 21.8 16.1 10.2 1.8 41.4 100											0.4 0.2 0.8 1.8 19.3 20.3 17.7 3.6 35.0 100																
July											August											September																
40 40											40 40											57.6 57.6																
1-3	2-6	0.6-1.5	0.2	0.3	0.5	0.5	4	3.7	3.9	0.8	13.9	1-3	2-6	0.6-1.5	0.2	0.1	0.3	0.3	3.8	4.3	4.6	0.9	14.3	1-3	2-6	0.6-1.5	0.6	0.8	1.1	0.8	2.4	2.7	2.9	1	12.1			
4-15	7-20	1.6-8.5	0.4	0.1	0.2	1.4	11.9	16.8	12.7	2.5	48	4-15	7-20	1.6-8.5	0.3	0.2	0.3	0.7	9.8	17.3	13.7	3.3	45.4	4-15	7-20	1.6-8.5	1.5	1.2	1.8	1.1	4.9	9.2	8.4	2.1	30			
17-27	31-50	8.6-14	0	0	0	0	0	0	0	0	0	17-27	31-50	8.6-14	0	0	0	0	0	0.1	0	0	0.1	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	>27	>50	>14	0	0	0	0	0	0	0	0	0	>27	>50	>14	0	0	0	0	0	0	0	0	0			
Total											Total											Total																
0.6 0.4 0.7 1.9 15.9 20.5 18.8 3.3 40 100											0.5 0.3 0.6 1 13.2 21.7 18.3 4.2 40 100											2.1 2 2.7 1.7 7.3 11.9 11.3 3.1 57.6 100																
October											November											December																
60.9 60.9											51.7 51.7											47.9 47.9																
1-3	2-6	0.6-1.5	2.4	2.8	1.8	0.7	1.8	1.1	1.3	0.9	12.8	1-3	2-6	0.6-1.5	4.7	4.8	2.8	0.5	0.8	0.3	0.7	0.8	15.4	1-3	2-6	0.6-1.5	5.8	6.1	3.3	0.7	0.8	0.3	0.4	1.2	18.8			
4-15	7-20	1.6-8.5	4.6	6.7	4.4	1.3	2.8	3	2.2	1.8	26.8	4-15	7-20	1.6-8.5	8.1	12.3	7.2	1.5	0.8	0.9	0.8	1.4	33	4-15	7-20	1.6-8.5	9	11	7.9	1.7	0.8	0.9	0.4	1.7	23.4			
17-27	31-50	8.6-14	0	0	0	0	0	0	0	0	0	17-27	31-50	8.6-14	0	0	0	0	0	0	0	0	0	17-27	31-50	8.6-14	0	0	0	0	0	0	0	0	0			
>27	>50	>14	0	0	0	0	0	0	0	0	0	>27	>50	>14	0	0	0	0	0	0	0	0	0	>27	>50	>14	0	0	0	0	0	0	0	0	0			
Total											Total											Total																
7 9.5 6.2 2 4.2 4.1 3.5 2.7 60.9 100											12.8 17.1 10 2 1.8 1.2 1.5 2.2 51.7 100											14.8 17.1 11.2 2.4 1.8 1.2 0.8 2.9 47.9 100																

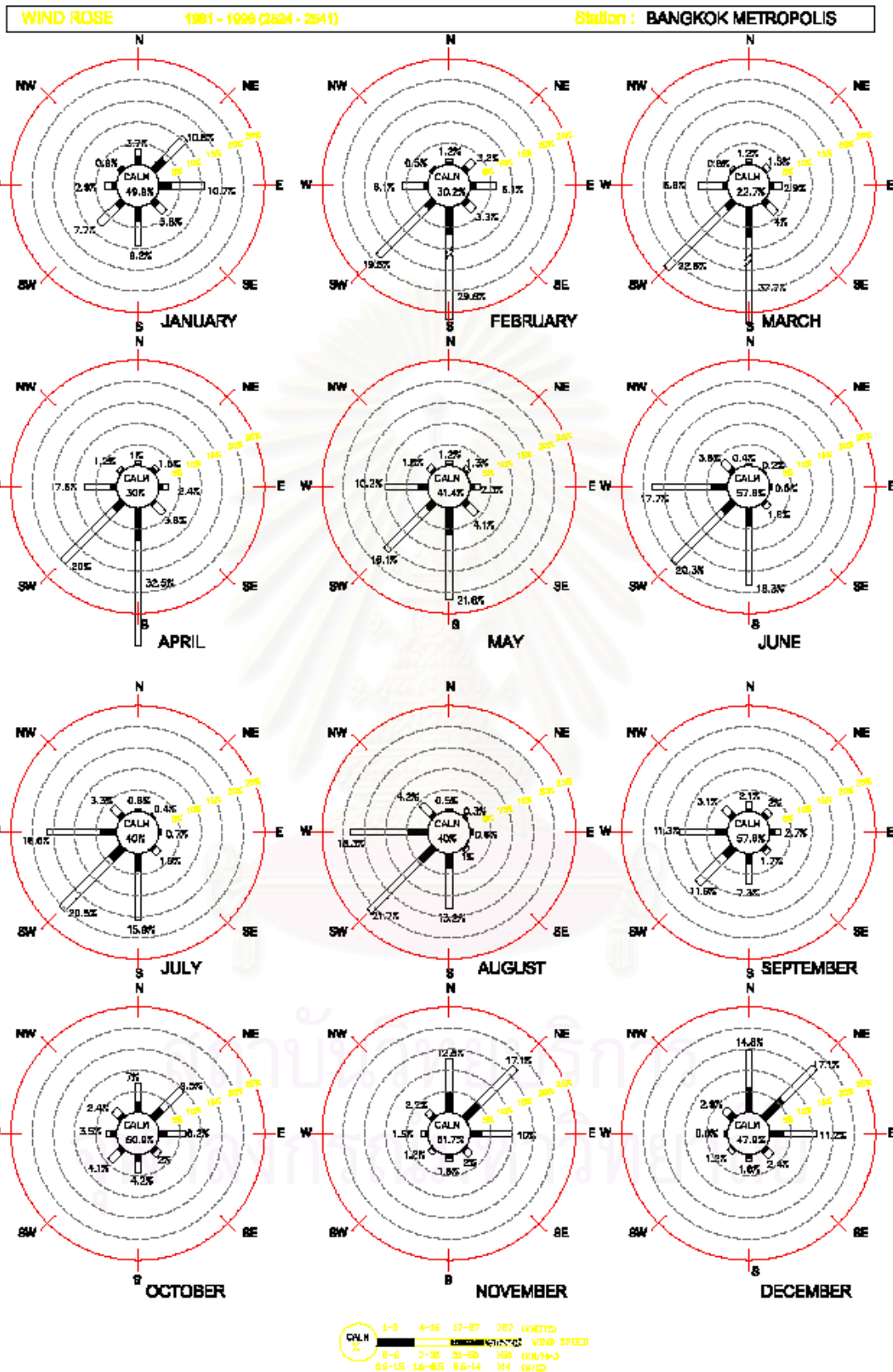
Remark : kt = KNOTS

1 kt = 1.852 km/h = 0.514 mi/h

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



แผนภูมิจำแนกความถี่ของลม ในแต่ละความเร็วและทิศทาง ที่เกิดลมรายเดือน (wind rose)



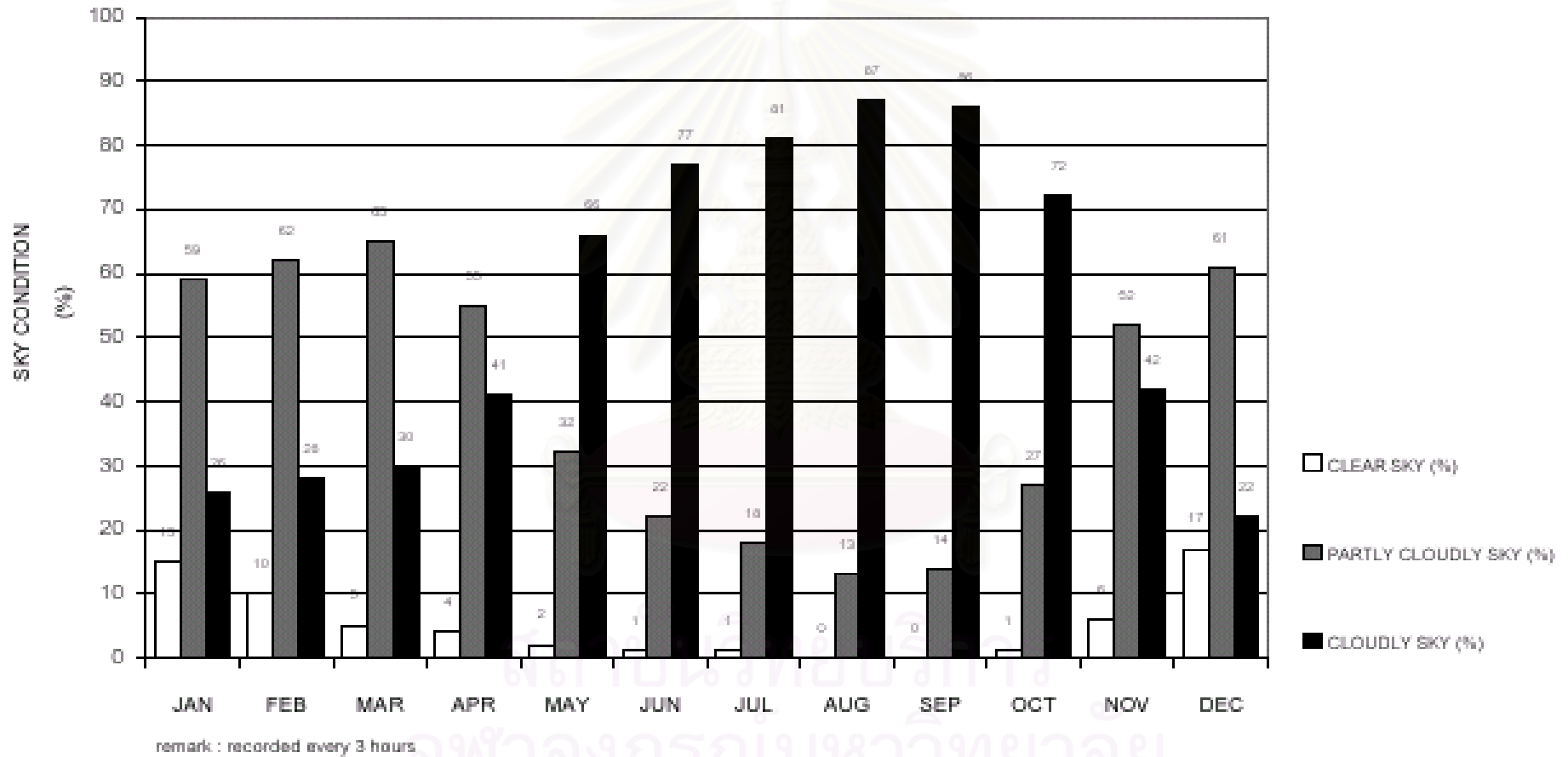
ตารางแสดงผลข้อมูลสภาพท้องฟ้าและสัดส่วนเปอร์เซ็นต์สภาพท้องฟ้า (sky cover and percentage of sky condition)

SKY COVER (%) & SKY CONDITION 1981 - 1998 (2524 - 2541)														Station : BANGKOK METROPOLIS																									
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					
	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	12%	70%	18%	15%	64%	21%	3%	62%	35%	3%	63%	34%	0%	65%	35%	0%	26%	74%	2%	14%	84%	0%	9%	91%	0%	8%	92%	0%	16%	84%	4%	56%	40%	6%	55%	39%	4%	42%	54%
2	23%	49%	28%	13%	67%	21%	0%	60%	40%	4%	72%	24%	0%	54%	46%	1%	22%	77%	1%	18%	82%	0%	8%	92%	0%	15%	85%	0%	9%	91%	4%	49%	47%	7%	63%	30%	4%	41%	55%
3	17%	43%	40%	13%	66%	21%	1%	75%	24%	2%	72%	26%	2%	46%	51%	0%	21%	79%	1%	16%	82%	0%	15%	85%	0%	13%	87%	0%	14%	86%	4%	45%	51%	7%	68%	25%	4%	41%	55%
4	14%	61%	25%	15%	57%	29%	1%	68%	31%	6%	58%	36%	2%	60%	38%	0%	19%	81%	2%	15%	83%	1%	14%	85%	0%	12%	88%	0%	18%	82%	3%	47%	50%	9%	68%	23%	4%	41%	54%
5	14%	54%	32%	11%	62%	27%	4%	65%	31%	1%	64%	35%	5%	42%	53%	1%	22%	77%	0%	18%	82%	1%	13%	86%	0%	11%	89%	0%	10%	90%	3%	50%	47%	13%	73%	15%	4%	40%	55%
6	28%	48%	24%	14%	64%	22%	9%	61%	30%	1%	70%	29%	4%	31%	65%	1%	19%	79%	1%	26%	72%	0%	18%	82%	0%	15%	85%	0%	13%	87%	3%	49%	49%	7%	76%	17%	6%	41%	53%
7	24%	58%	18%	14%	53%	33%	9%	55%	36%	4%	65%	31%	4%	34%	63%	1%	21%	78%	1%	25%	74%	0%	19%	81%	0%	15%	85%	0%	21%	79%	1%	61%	38%	13%	65%	21%	6%	41%	53%
8	15%	69%	15%	15%	64%	21%	5%	72%	23%	5%	57%	38%	1%	33%	66%	0%	24%	76%	0%	23%	77%	0%	18%	82%	0%	20%	80%	0%	24%	76%	5%	46%	49%	15%	66%	18%	5%	43%	52%
9	28%	57%	15%	7%	68%	24%	1%	82%	16%	7%	55%	38%	1%	30%	68%	0%	19%	81%	1%	17%	82%	0%	18%	82%	1%	18%	82%	2%	14%	84%	7%	34%	60%	14%	54%	32%	6%	39%	55%
10	21%	50%	29%	5%	67%	28%	5%	74%	21%	6%	57%	37%	3%	26%	71%	3%	22%	75%	0%	21%	79%	0%	14%	86%	0%	14%	86%	0%	15%	85%	3%	43%	54%	20%	57%	23%	6%	38%	56%
11	18%	63%	19%	15%	54%	31%	11%	65%	24%	11%	56%	33%	1%	32%	66%	4%	15%	81%	0%	13%	88%	0%	8%	92%	0%	13%	88%	0%	30%	70%	3%	43%	54%	15%	49%	36%	6%	37%	57%
12	16%	63%	21%	12%	55%	33%	1%	76%	24%	11%	52%	37%	0%	35%	65%	5%	15%	80%	1%	17%	82%	0%	13%	88%	0%	13%	87%	1%	16%	82%	10%	51%	39%	10%	66%	24%	6%	39%	55%
13	10%	62%	28%	11%	66%	23%	8%	69%	23%	4%	55%	40%	1%	36%	63%	1%	20%	79%	0%	18%	82%	1%	15%	84%	1%	17%	82%	0%	24%	76%	2%	48%	50%	19%	60%	21%	5%	41%	54%
14	23%	62%	15%	6%	69%	25%	7%	61%	32%	4%	53%	43%	1%	27%	71%	4%	20%	76%	0%	13%	88%	0%	21%	79%	0%	16%	84%	0%	37%	63%	0%	43%	57%	19%	59%	22%	5%	40%	55%
15	21%	62%	18%	5%	64%	31%	5%	60%	35%	3%	39%	58%	1%	33%	66%	0%	24%	76%	1%	14%	85%	0%	15%	85%	1%	14%	85%	1%	29%	69%	3%	48%	49%	13%	66%	21%	4%	39%	57%
16	15%	66%	19%	9%	58%	33%	7%	71%	22%	2%	41%	57%	0%	39%	61%	1%	29%	71%	0%	25%	75%	1%	15%	85%	1%	18%	81%	3%	31%	66%	10%	45%	46%	19%	58%	23%	6%	41%	53%
17	11%	76%	13%	9%	62%	29%	11%	66%	23%	3%	48%	49%	0%	35%	65%	1%	18%	80%	1%	13%	85%	0%	13%	88%	0%	15%	85%	1%	29%	69%	4%	50%	46%	21%	57%	21%	5%	40%	54%
18	14%	73%	13%	1%	63%	35%	12%	61%	27%	5%	46%	49%	0%	23%	77%	2%	24%	74%	1%	15%	84%	0%	9%	91%	0%	11%	89%	1%	23%	76%	4%	59%	38%	18%	65%	16%	5%	39%	56%
19	15%	60%	25%	14%	57%	29%	10%	71%	19%	3%	61%	36%	0%	24%	76%	3%	15%	82%	1%	24%	75%	0%	6%	94%	0%	13%	87%	0%	29%	71%	1%	68%	30%	7%	70%	23%	5%	41%	54%
20	12%	62%	26%	13%	65%	22%	8%	70%	22%	4%	47%	49%	0%	30%	70%	2%	18%	79%	2%	21%	77%	0%	10%	90%	0%	21%	79%	0%	24%	76%	11%	57%	32%	10%	79%	11%	5%	42%	53%
21	10%	48%	42%	10%	58%	32%	9%	68%	23%	4%	50%	46%	0%	27%	73%	2%	26%	72%	1%	26%	74%	0%	10%	90%	0%	13%	87%	1%	34%	65%	5%	63%	32%	15%	68%	17%	5%	41%	54%
22	10%	51%	39%	7%	65%	28%	5%	57%	38%	2%	49%	49%	2%	35%	63%	2%	31%	67%	3%	17%	80%	0%	10%	90%	0%	17%	83%	0%	36%	64%	7%	67%	26%	24%	51%	24%	5%	41%	54%
23	7%	64%	29%	15%	60%	26%	1%	68%	31%	0%	58%	42%	1%	36%	63%	1%	28%	71%	1%	18%	81%	0%	9%	91%	0%	9%	91%	1%	40%	59%	6%	68%	26%	28%	63%	9%	5%	43%	52%
24	10%	57%	33%	8%	60%	32%	2%	65%	32%	6%	53%	41%	4%	30%	66%	1%	19%	80%	0%	23%	77%	0%	9%	91%	0%	6%	94%	2%	36%	62%	10%	63%	26%	30%	60%	10%	6%	40%	54%
25	4%	63%	33%	1%	61%	38%	2%	68%	30%	1%	51%	48%	0%	27%	73%	1%	20%	79%	0%	26%	74%	1%	10%	89%	0%	6%	94%	0%	35%	65%	10%	57%	32%	30%	55%	15%	4%	40%	56%
26	1%	55%	43%	3%	61%	36%	3%	68%	29%	3%	49%	48%	1%	21%	77%	1%	19%	79%	0%	18%	82%	0%	10%	90%	0%	16%	84%	2%	32%	66%	14%	54%	32%	19%	63%	16%	4%	39%	57%
27	6%	60%	34%	1%	68%	31%	1%	63%	36%	2%	50%	48%	3%	21%	76%	0%	20%	80%	0%	24%	76%	2%	20%	78%	0%	10%	90%	4%	38%	58%	4%	56%	40%	18%	52%	29%	4%	40%	56%
28	8%	55%	37%	3%	63%	35%	1%	60%	39%	3%	48%	49%	1%	18%	81%	0%	18%	82%	1%	20%	79%	1%	18%	81%	0%	18%	82%	1%	40%	59%	5%	54%	41%	26%	50%	24%	4%	38%	57%
29	14%	57%	29%	16%	59%	25%	3%	62%	35%	4%	48%	48%	1%	10%	89%	0%	20%	80%	0%	10%	90%	0%	11%	89%	0%	13%	88%	0%	47%	53%	12%	47%	41%	34%	43%	24%	7%	36%	57%
30	18%	60%	23%				6%	52%	42%	2%	52%	46%	0%	15%	85%	0%	26%	74%	0%	7%	93%	1%	9%	90%	2%	12%	86%	1%	46%	53%	9%	46%	46%	25%	49%	26%	6%	34%	60%
31	13%	65%	22%				5%	57%	38%				2%	21%	77%				0%	3%	97%	0%	14%	86%				0%	43%	57%				21%	60%	19%	6%	37%	57%
AVG %	15%	59%	26%	10%	62%	28%	5%	65%	29%	4%	55%	41%	1%	32%	66%	1%	21%	77%	1%	18%	81%	0%	13%	87%	0%	14%	86%	1%	28%	72%	6%	52%	42%	17%	61%	22%	5%	40%	55%
condition	5.9			6.1			6.4			6.9			7.9			8.3			8.6			8.8			8.8			8.2			6.8			5.6			7.4		

Legend : condition (SKY CONDITION) 0-3 = Clear Sky, 4-7 = Partly Cloudy Sky, 8-10 = Cloudy Sky, AVG % = AVERAGE PERCENTAGE OF SKY CONDITION

แผนภูมิสภาพท้องฟ้าและสัดส่วนเปอร์เซ็นต์สภาพท้องฟ้า (sky cover and percentage of sky condition)

SKY CONDITION (%) 1981 - 1988 (2524-2541) Station : BANGKOK METROPOLIS



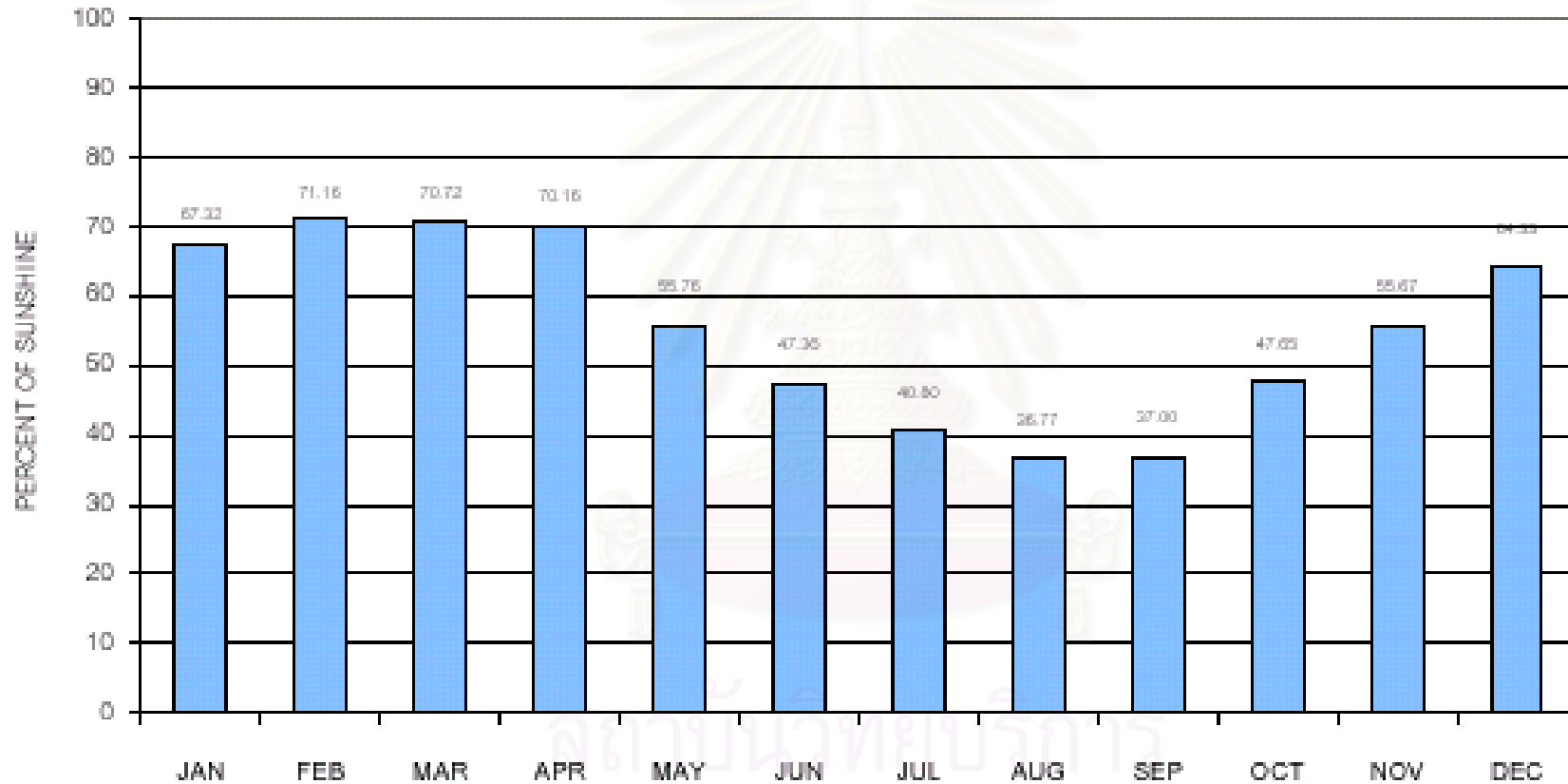
ตารางแสดงผลข้อมูลระยะเวลาของแสงแดด (duration of sunshine)

DURATION OF SUNSHINE (hours) 1981 - 1998 (2524 - 2541)														Station : BANGKOK METROPOLIS														
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 %	hours	avg %
1	8.7	72.3%	7.4	61.7%	7.0	58.0%	8.3	69.4%	8.7	72.5%	5.4	45.0%	5.2	43.4%	3.9	32.2%	4.3	35.7%	4.7	39.2%	7.4	61.7%	6.7	56.2%	6.5	53.9%		
2	8.4	69.7%	7.7	64.4%	6.9	57.1%	9.7	80.6%	8.0	66.7%	5.6	46.8%	3.8	31.8%	4.2	35.3%	5.3	44.2%	4.7	39.2%	7.1	59.2%	6.8	56.4%	6.5	54.3%		
3	7.5	62.2%	8.0	66.5%	8.5	70.8%	9.1	75.6%	7.7	63.9%	4.5	37.8%	4.0	33.6%	4.3	35.6%	4.0	33.3%	4.1	33.8%	5.7	47.8%	7.2	60.2%	6.2	51.7%		
4	8.2	67.9%	7.7	64.2%	8.2	67.9%	7.6	63.0%	8.4	70.1%	7.0	58.4%	3.8	31.8%	4.6	38.0%	5.3	43.8%	4.4	36.4%	5.4	44.7%	8.2	68.3%	6.5	54.5%		
5	8.2	68.3%	8.5	70.5%	8.0	66.3%	8.4	70.2%	6.4	53.5%	5.9	49.5%	4.1	34.3%	5.3	43.8%	4.9	40.7%	3.6	29.7%	7.1	59.2%	8.6	71.5%	6.6	54.8%		
6	8.5	70.4%	8.5	71.2%	8.2	68.4%	8.9	74.4%	5.7	47.2%	6.0	49.6%	5.1	42.5%	5.6	46.9%	4.4	37.0%	5.4	44.9%	7.2	60.1%	7.4	61.8%	6.7	56.2%		
7	8.3	68.8%	8.4	70.3%	7.6	62.9%	8.7	72.8%	6.4	53.6%	5.6	46.6%	7.2	59.8%	5.2	43.3%	6.1	50.5%	5.4	45.2%	7.2	59.9%	8.1	67.9%	7.0	58.5%		
8	8.3	69.4%	8.6	71.3%	8.6	71.3%	8.4	70.2%	6.7	55.8%	5.3	44.3%	6.3	52.4%	4.9	41.2%	6.2	51.6%	5.4	45.2%	6.6	55.4%	7.7	64.5%	6.9	57.7%		
9	7.9	65.5%	8.7	72.2%	9.2	76.3%	9.3	77.4%	4.6	38.5%	4.8	39.8%	4.6	38.7%	5.4	44.9%	3.7	31.1%	3.2	26.3%	5.1	42.6%	8.0	66.5%	6.2	51.6%		
10	7.8	65.1%	8.2	68.1%	9.0	74.8%	8.3	69.3%	6.3	52.8%	5.7	47.1%	6.6	55.0%	3.5	28.9%	4.5	37.6%	4.8	40.0%	6.3	52.6%	7.8	65.2%	6.6	54.7%		
11	6.9	57.2%	7.9	65.5%	9.2	76.9%	9.6	79.9%	7.4	61.9%	5.2	43.2%	4.1	33.8%	3.8	31.9%	4.3	35.5%	5.9	49.1%	7.0	58.5%	7.2	60.3%	6.5	54.5%		
12	8.1	67.6%	6.8	56.7%	9.3	77.8%	8.7	72.8%	7.6	63.0%	6.2	51.5%	5.3	44.3%	3.8	31.4%	4.8	39.6%	5.3	44.1%	7.3	61.0%	7.5	62.1%	6.7	56.0%		
13	8.1	67.3%	8.7	72.3%	9.3	77.8%	8.8	73.0%	7.5	62.4%	4.7	39.4%	5.3	44.4%	4.8	40.0%	4.7	39.0%	5.6	47.0%	6.0	50.4%	7.7	63.9%	6.8	56.4%		
14	8.3	69.3%	9.3	77.1%	8.6	72.0%	8.1	67.4%	6.2	51.9%	4.3	35.5%	4.5	37.5%	4.9	41.0%	4.7	38.9%	7.0	58.3%	5.8	48.3%	7.7	64.3%	6.6	55.1%		
15	8.9	74.4%	9.2	76.3%	7.9	65.5%	8.2	68.0%	7.4	62.0%	5.4	45.3%	3.0	24.8%	4.9	41.2%	4.5	37.8%	5.7	47.3%	7.7	64.1%	6.8	56.5%	6.6	55.3%		
16	8.1	67.2%	9.0	74.7%	9.2	76.8%	8.7	72.6%	8.6	71.8%	5.6	46.9%	5.4	45.3%	4.4	36.3%	4.9	40.6%	4.9	40.8%	7.0	58.3%	6.9	57.6%	6.9	57.4%		
17	8.9	74.0%	8.6	71.9%	9.1	75.8%	8.9	74.0%	8.0	66.3%	5.4	44.8%	4.0	33.1%	3.6	30.2%	3.6	30.3%	5.4	45.2%	5.5	46.2%	7.1	59.5%	6.5	54.3%		
18	8.8	73.6%	8.3	69.4%	8.9	74.3%	8.8	73.0%	4.3	36.0%	5.4	45.2%	4.8	39.8%	4.4	36.3%	2.9	24.5%	4.9	40.6%	6.6	55.1%	7.4	61.3%	6.3	52.4%		
19	8.8	73.5%	8.5	70.6%	8.6	71.6%	9.7	80.4%	5.0	41.8%	4.8	40.2%	7.4	61.4%	3.8	31.5%	3.1	25.6%	5.1	42.8%	6.8	56.7%	7.5	62.9%	6.6	54.9%		
20	8.0	66.9%	8.7	72.1%	8.8	73.3%	8.3	68.8%	5.3	43.9%	5.2	43.3%	5.1	42.7%	3.3	27.6%	3.3	27.3%	5.5	46.2%	7.0	58.2%	8.0	66.5%	6.4	53.1%		
21	8.4	69.9%	8.6	71.9%	8.7	72.7%	7.6	63.1%	6.3	52.5%	5.7	47.5%	5.1	42.3%	4.8	40.1%	3.9	32.6%	6.9	57.7%	7.2	60.3%	7.7	64.2%	6.7	56.2%		
22	7.9	65.8%	9.6	80.1%	8.5	70.9%	8.1	67.3%	7.0	58.4%	7.3	60.6%	4.9	40.8%	4.8	40.2%	5.6	46.3%	6.2	52.0%	6.6	54.6%	8.2	68.3%	7.1	58.8%		
23	7.7	63.8%	9.4	78.4%	8.6	71.9%	8.8	72.9%	7.2	59.8%	7.0	58.6%	4.6	38.1%	2.8	23.3%	4.7	39.1%	7.2	59.6%	7.2	60.2%	8.6	71.6%	7.0	58.1%		
24	7.1	59.1%	8.5	70.6%	8.3	69.5%	9.0	74.8%	7.7	64.1%	6.7	56.2%	4.8	39.7%	4.3	36.1%	3.1	26.1%	7.1	58.8%	6.5	53.9%	8.3	69.5%	6.8	56.5%		
25	8.3	69.3%	9.0	75.4%	8.8	73.0%	7.4	61.4%	6.6	55.3%	6.3	52.6%	4.7	39.2%	4.5	37.3%	4.2	34.7%	6.6	55.0%	7.8	65.2%	8.7	72.6%	6.9	57.6%		
26	6.7	55.4%	8.7	72.7%	8.8	73.3%	7.7	63.8%	7.0	58.1%	5.4	45.0%	5.0	41.6%	3.6	30.0%	4.4	36.4%	7.0	58.5%	7.5	62.3%	8.6	71.7%	6.7	55.7%		
27	7.3	60.4%	9.4	78.5%	7.2	59.6%	7.2	60.1%	6.0	50.0%	6.3	52.2%	5.8	48.3%	5.8	47.9%	4.8	40.3%	7.0	58.5%	6.8	56.9%	7.5	62.4%	6.8	56.3%		
28	7.5	62.8%	8.2	68.5%	8.1	67.4%	7.4	61.5%	5.9	49.3%	5.2	43.1%	5.6	46.3%	5.2	43.7%	4.9	41.0%	7.1	59.3%	5.4	44.8%	8.1	67.9%	6.6	54.6%		
29	8.4	69.7%	9.7	80.4%	8.7	72.7%	8.0	66.6%	5.0	41.9%	6.6	55.3%	5.0	41.9%	3.8	32.0%	4.1	33.9%	6.8	57.0%	6.8	56.7%	7.7	64.5%	6.7	56.1%		
30	8.2	68.0%			8.6	71.8%	7.3	60.7%	6.7	56.2%	6.0	50.0%	4.9	41.2%	3.8	31.9%	4.2	35.3%	7.0	58.6%	6.6	55.2%	7.5	62.4%	6.4	53.7%		
31	8.7	72.3%			8.9	74.1%			5.7	47.6%			1.8	15.1%	4.8	39.8%			7.3	60.8%			7.9	65.5%	6.4	53.6%		
Average	8.1	67.3%	8.5	71.2%	8.5	70.7%	8.4	70.2%	6.7	55.8%	5.7	47.4%	4.9	40.8%	4.4	36.8%	4.4	37.0%	5.7	47.6%	6.7	55.7%	7.7	64.3%	6.6	55.3%		
Total	250.4		247.6		263.1		252.6		207.4		170.5		151.8		136.8		133.2		177.2		208.4		239.3		2,430.3			

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

แผนภูมิระยะเวลาของแสงแดด (average percent of sunshine per month)

AVERAGE PERCENT OF SUNSHINE PER MONTH 1987 - 1998 (2530 - 2541) Station : BANGKOK METROPOLIS



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

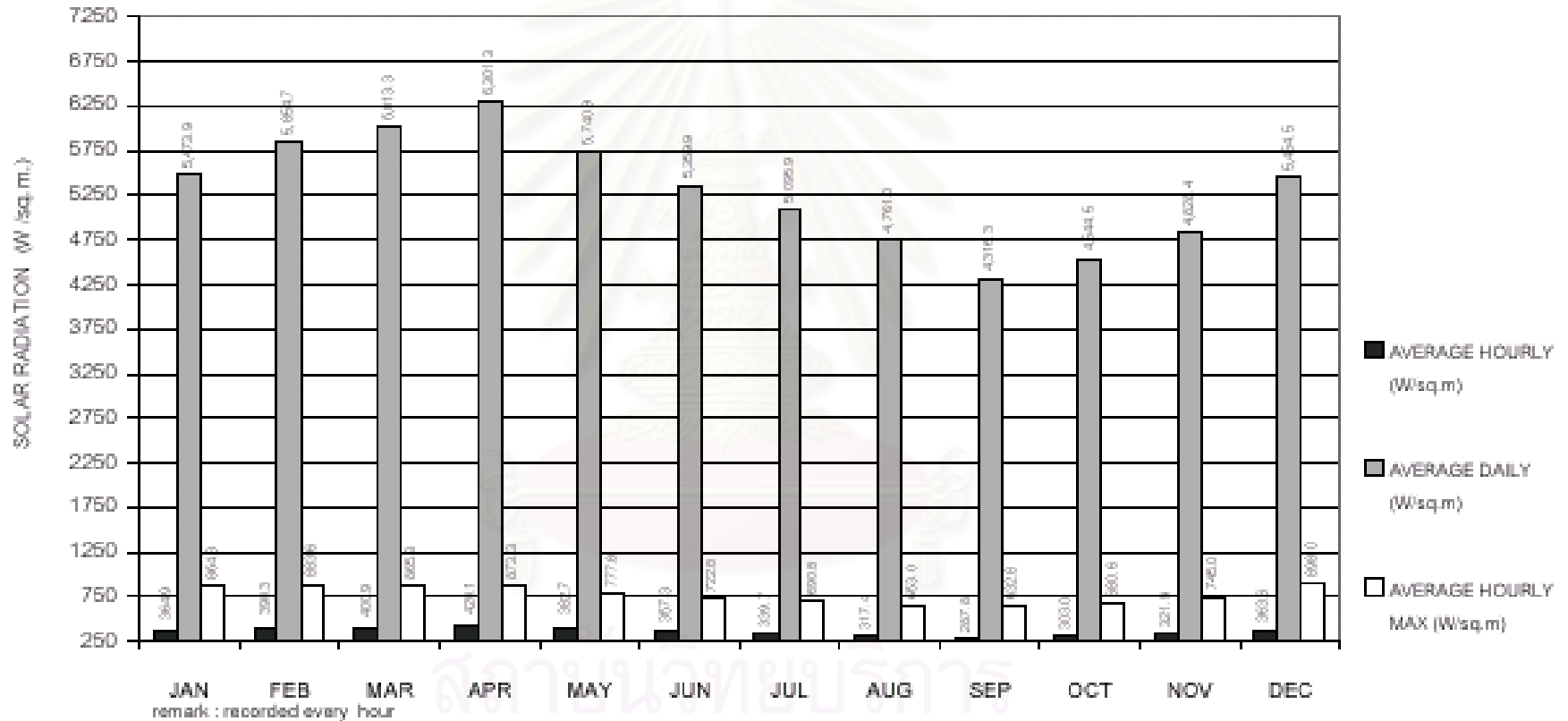
ตารางแสดงผลข้อมูลปริมาณรังสีรวมดวงอาทิตย์ (solar radiation)

SOLAR RADIATION (W / m ²) 1998 (2541)														Station : BANGKOK METROPOLIS												
MONTH	JANUARY		FEBRUARY		MARCH		APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER		OCTOBER		NOVEMBER		DECEMBER		ANNUAL	
DAY	hourly	daily	hourly	daily	hourly	daily	hourly	daily	hourly	daily	hourly	daily	hourly	daily	hourly	daily	hourly	daily	hourly	daily	hourly	daily	hourly	daily	hourly	daily
1	380.5	5,706.9	385.0	5,774.9	380.7	5,710.8	420.0	6,300.2	461.4	6,921.2	375.2	5,628.0	330.8	4,961.6	313.1	4,696.0	288.3	4,324.5	268.2	4,022.7	343.2	5,148.5	332.2	4,982.9	356.5	5,348.2
2	368.0	5,520.6	364.3	5,464.8	360.4	5,406.6	456.0	6,840.7	418.5	6,277.0	343.7	5,155.2	348.0	5,219.3	324.1	4,861.4	292.1	4,380.9	275.1	4,127.1	344.6	5,169.6	332.5	4,987.8	352.3	5,284.2
3	350.6	5,258.4	364.4	5,465.7	363.2	5,448.7	444.9	6,673.6	438.1	6,571.6	361.2	5,417.5	352.1	5,281.3	283.3	4,249.7	308.8	4,632.0	271.2	4,067.8	341.3	5,120.1	371.2	5,568.4	354.2	5,312.9
4	378.1	5,671.2	381.0	5,715.6	383.2	5,747.7	427.7	6,415.1	408.1	6,121.3	396.9	5,954.2	335.9	5,038.9	308.3	4,624.0	330.8	4,962.4	236.4	3,545.4	331.7	4,975.8	394.4	5,916.4	359.4	5,390.6
5	371.3	5,569.2	355.5	5,332.1	375.9	5,639.1	443.4	6,651.3	367.1	5,506.1	366.1	5,492.2	324.7	4,870.8	341.6	5,123.8	331.2	4,968.5	298.7	4,030.8	343.8	5,157.4	410.1	6,150.9	358.3	5,374.3
6	347.2	5,208.7	413.9	6,207.9	363.9	5,458.6	431.0	6,465.3	385.0	5,775.4	382.9	5,743.6	338.1	5,087.1	344.1	5,161.8	283.9	4,259.1	311.5	4,673.1	327.1	4,906.6	322.2	4,832.9	354.3	5,315.0
7	348.0	5,219.9	357.3	5,358.9	353.4	5,300.4	425.0	6,374.9	363.6	5,453.3	345.3	5,179.5	375.2	5,627.5	366.7	5,501.1	336.0	5,040.7	275.2	4,127.6	328.3	4,924.9	379.6	5,693.4	354.5	5,316.9
8	376.1	5,640.9	383.7	5,756.2	406.1	6,092.1	385.8	5,786.5	399.7	5,996.9	355.3	5,330.2	354.7	5,321.1	362.4	5,435.6	357.4	5,360.6	330.4	4,955.4	323.0	4,845.5	393.5	5,901.8	369.0	5,535.1
9	347.6	5,213.6	340.9	5,113.6	407.9	6,118.4	423.0	6,345.7	312.6	4,689.0	342.9	5,143.2	333.8	5,007.1	385.9	5,787.8	276.9	4,153.0	237.4	3,561.5	267.9	4,018.9	348.5	5,226.8	335.4	5,081.6
10	353.0	5,295.4	324.8	4,872.0	401.1	6,016.7	416.4	6,245.4	370.0	5,550.5	352.5	5,297.2	359.8	5,397.5	328.8	4,931.9	297.0	4,454.9	274.8	4,122.1	335.1	5,026.3	322.2	4,833.1	344.6	5,168.4
11	334.5	5,017.1	324.3	4,863.8	376.7	5,649.9	450.6	6,758.9	379.2	5,687.3	380.9	5,713.3	314.5	4,717.8	323.3	4,850.0	302.3	4,534.1	306.6	4,598.4	339.1	5,086.4	343.3	5,149.5	347.9	5,218.9
12	312.3	4,684.8	377.6	5,664.4	406.3	6,094.5	428.9	6,434.0	422.4	6,336.1	347.6	5,214.2	325.9	4,887.9	338.0	5,070.4	312.7	4,690.3	315.7	4,734.8	352.0	5,280.1	317.5	4,762.9	354.7	5,321.2
13	371.6	5,574.5	398.0	5,969.5	385.1	5,776.0	408.6	6,128.9	413.3	6,199.0	327.3	4,910.1	322.8	4,841.9	342.3	5,135.1	286.0	4,290.5	323.5	4,852.2	317.4	4,761.1	354.6	5,319.8	354.2	5,313.1
14	345.5	5,182.5	382.1	5,732.2	400.3	6,004.8	400.0	5,999.8	360.2	5,402.4	334.2	5,013.6	352.3	5,285.0	334.7	5,020.5	291.3	4,368.8	365.1	5,476.8	290.2	4,353.2	369.2	5,537.3	352.1	5,281.4
15	402.3	6,034.1	381.3	5,719.6	379.3	5,689.1	415.0	6,225.3	399.3	5,989.2	341.0	5,114.8	328.7	4,930.6	323.5	4,852.0	279.2	4,187.7	309.9	4,649.2	335.0	5,025.5	380.5	5,707.6	356.2	5,343.7
16	325.6	4,883.4	401.7	6,025.6	407.7	6,115.9	431.9	6,478.5	430.2	6,452.5	329.9	4,948.8	348.9	5,233.0	323.8	4,856.4	289.4	4,340.8	305.2	4,578.4	327.0	4,905.0	375.5	5,632.3	358.1	5,370.9
17	406.5	6,097.9	378.5	5,677.6	405.0	6,075.0	427.7	6,415.1	363.2	5,448.3	340.3	5,104.7	342.7	5,140.2	326.4	4,896.6	270.5	4,057.2	295.0	4,275.4	300.1	4,502.1	359.9	5,398.7	350.5	5,257.4
18	397.2	5,958.0	428.6	6,428.3	416.4	6,246.0	439.7	6,595.1	334.3	5,014.9	361.5	5,422.3	326.7	4,900.0	303.0	4,545.4	242.4	3,636.0	271.1	4,066.4	286.0	4,290.2	418.0	6,269.4	352.1	5,281.0
19	363.0	5,444.7	399.0	5,984.4	410.0	6,150.0	465.2	6,978.6	339.8	5,096.9	294.6	4,419.4	383.3	5,749.9	303.6	4,554.5	258.5	3,878.1	283.6	4,254.7	323.9	4,858.9	387.7	5,814.9	351.0	5,265.4
20	379.2	5,688.0	440.0	6,599.6	393.0	5,895.1	431.9	6,477.9	332.8	4,991.7	358.4	5,376.7	326.6	4,898.3	296.6	4,449.7	239.3	3,589.6	303.9	4,557.9	335.3	5,028.8	409.0	6,134.9	353.8	5,307.3
21	374.8	5,622.0	393.4	5,901.1	401.3	6,019.2	405.4	6,081.1	355.7	5,336.2	360.0	5,399.3	331.7	4,975.0	312.6	4,688.7	307.9	4,617.9	342.2	5,132.7	340.3	5,105.2	344.3	5,164.9	355.8	5,336.9
22	364.9	5,472.8	412.2	6,182.4	425.5	6,382.3	407.6	6,114.7	362.1	5,431.4	377.4	5,660.8	344.9	5,173.4	315.8	4,736.4	324.7	4,866.9	302.2	4,533.3	319.1	4,786.7	388.8	5,832.5	362.1	5,431.4
23	385.5	5,782.4	450.8	6,762.2	415.4	6,231.6	408.5	6,126.8	388.2	5,823.5	381.4	5,720.4	337.6	5,063.9	279.7	4,195.2	297.1	4,456.2	338.3	5,074.6	336.7	5,050.7	357.5	5,362.6	364.7	5,470.8
24	362.0	5,429.3	411.0	6,164.9	423.1	6,345.9	417.0	6,255.5	384.7	5,771.1	360.2	5,403.1	347.6	5,213.5	295.8	4,436.5	228.7	3,430.9	312.1	4,681.4	300.6	4,508.7	396.0	5,940.5	353.2	5,298.5
25	365.5	5,483.2	384.3	5,764.3	421.6	6,324.1	392.7	5,891.0	375.7	5,635.5	376.0	5,639.8	316.2	4,743.3	278.0	4,169.4	270.2	4,053.7	320.0	4,799.4	333.8	5,007.4	343.5	5,152.5	348.1	5,222.0
26	331.1	4,956.7	434.2	6,513.1	459.3	6,890.1	401.5	6,022.3	406.6	6,099.4	349.7	5,245.7	331.1	4,966.7	271.5	4,072.1	242.2	3,632.4	313.6	4,703.4	337.1	5,056.6	396.4	5,945.7	356.2	5,342.9
27	394.9	5,923.3	409.3	6,139.8	378.7	5,680.8	373.2	5,598.0	403.8	6,057.5	366.1	5,491.7	354.7	5,320.3	306.2	4,593.0	273.1	4,096.3	345.4	5,181.4	313.7	4,705.3	341.1	5,116.0	355.0	5,325.3
28	336.0	5,039.6	368.2	5,522.5	431.8	6,476.4	403.4	6,050.4	368.6	5,528.9	355.1	5,326.9	353.5	5,302.1	299.3	4,489.2	284.3	4,264.2	335.8	5,036.6	274.6	4,119.7	353.0	5,294.8	347.0	5,204.3
29	370.6	5,558.5	473.9	7,108.2	440.5	6,607.9	423.8	6,357.0	356.8	5,352.6	389.0	5,835.3	343.7	5,154.9	304.1	4,561.2	267.2	4,008.6	312.3	4,684.1	309.7	4,646.1	324.4	4,866.7	359.7	5,395.1
30	366.1	5,490.8			431.7	6,476.2	396.8	5,952.6	394.1	5,912.2	367.1	5,506.2	337.7	5,066.1	273.7	4,104.9	263.2	3,948.7	317.9	4,767.8	298.6	4,479.3	349.1	5,236.1	345.1	5,176.5
31	403.4	6,051.1			422.8	6,341.6			369.3	5,538.4			306.4	4,596.7	329.5	4,941.9			333.8	5,007.3			357.0	5,355.5	360.3	5,404.8
Average	364.9	5,473.9	390.3	5,854.7	400.9	6,013.3	420.1	6,301.3	382.7	5,740.9	357.3	5,359.9	338.7	5,095.9	317.4	4,761.0	287.8	4,316.3	303.0	4,544.5	321.9	4,828.4	363.6	5,454.5	354.1	5,311.2
Avg. max	864.3		883.6		865.3		873.3		777.8		722.8		690.8		653.0		632.8		680.6		745.0		898.0		773.9	

Remark : 1 W/m² = 0.317 Btu (hr)(ft²)⁻¹ = 3.6 kJ/m²

แผนภูมิปริมาณรังสีรวมดวงอาทิตย์ (solar radiation)

SOLAR RADIATION (W/sq.m.) 1991 - 1998 (2534 - 2541) Station : BANGKOK METROPOLIS



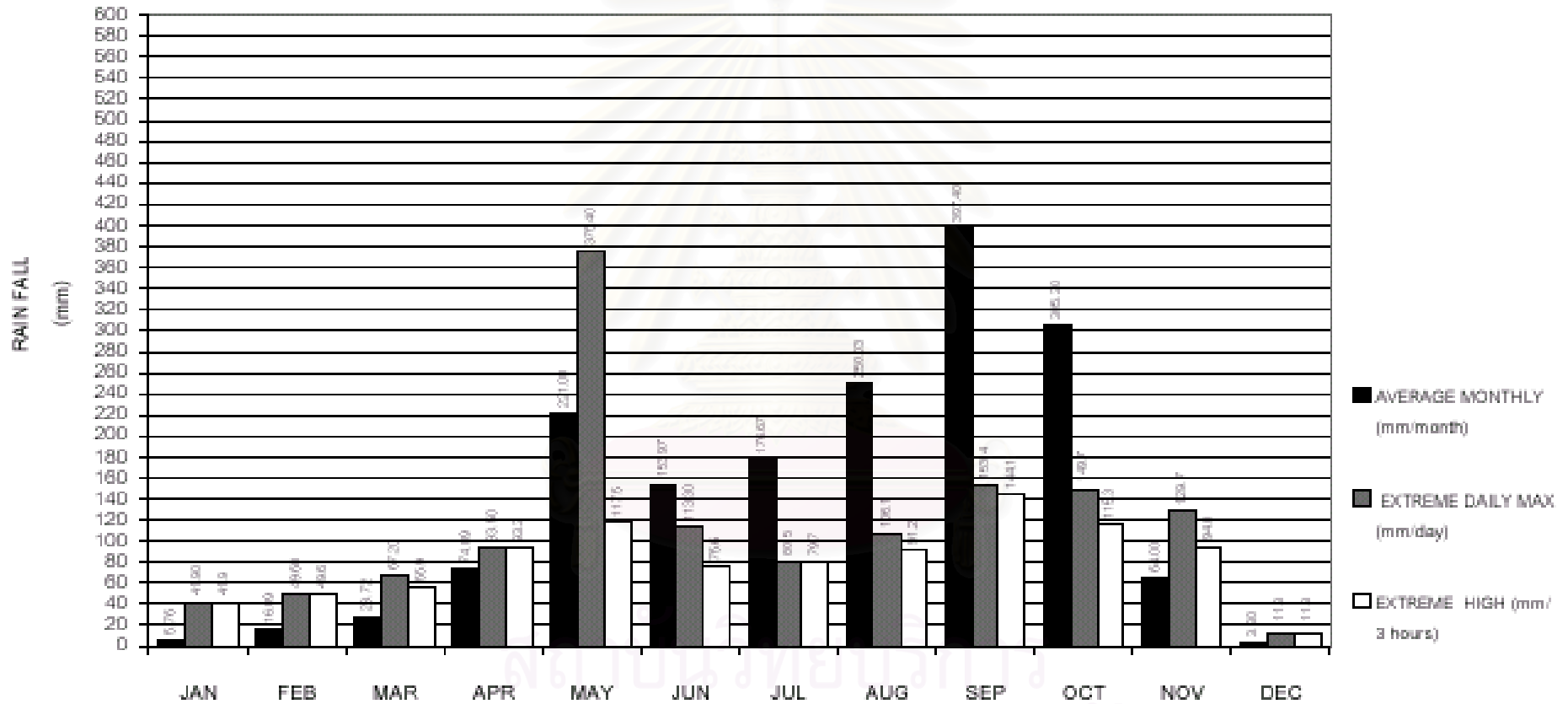
สถาบันวิจัยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

ตารางแสดงผลข้อมูลปริมาณน้ำฝน (rain fall)

RAIN FALL (mm) 1981 - 1998 (2524 - 2541)													Station : BANGKOK METROPOLIS
MONTH	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
DAY	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
1	0.0	0.0	0.3	2.0	1.5	4.1	2.9	12.0	12.9	20.8	6.6	0.4	63.6
2	0.0	0.1	0.2	0.0	4.7	2.7	0.9	4.5	19.0	11.8	1.7	0.3	45.8
3	0.0	0.0	0.0	0.4	3.1	5.7	4.8	4.8	7.4	7.2	1.8	0.7	36.0
4	0.1	0.5	0.0	2.8	4.8	2.1	11.6	14.2	9.6	14.0	1.8	0.5	62.0
5	0.0	0.0	0.1	0.5	6.7	2.2	8.2	11.5	4.3	11.3	3.0	0.0	47.9
6	0.0	0.0	5.7	0.9	4.1	8.3	9.2	6.8	5.1	13.0	1.4	0.0	54.5
7	0.0	0.1	0.1	0.9	10.1	6.8	2.4	8.8	9.0	3.4	9.1	0.0	50.7
8	0.0	1.7	0.1	2.0	13.6	17.4	5.2	9.0	5.0	12.0	3.0	0.0	69.1
9	0.3	0.0	0.6	0.1	28.6	4.1	4.0	4.2	12.2	15.1	3.7	0.0	72.9
10	0.0	2.3	1.7	0.1	5.1	7.0	8.4	8.2	12.7	12.3	3.9	0.0	61.7
11	2.3	0.1	0.1	0.0	2.4	4.8	8.3	3.0	8.9	12.6	1.9	0.0	44.6
12	0.0	0.7	0.6	1.9	3.2	5.0	9.1	11.9	13.5	8.4	1.5	0.0	55.9
13	0.0	2.1	1.1	5.9	6.0	10.4	7.1	7.8	5.2	19.9	5.4	0.0	71.0
14	0.0	0.0	0.4	5.8	4.2	1.3	3.8	1.7	14.0	8.1	1.3	0.0	40.6
15	0.0	0.0	0.6	5.0	11.0	3.1	2.7	6.2	8.0	12.5	2.0	0.0	51.1
16	0.0	0.0	0.1	8.2	5.4	2.0	4.0	7.9	14.1	16.4	8.3	0.0	66.3
17	0.1	2.8	0.0	0.1	3.8	5.5	7.1	3.6	21.4	13.8	0.9	0.0	59.0
18	0.0	2.0	0.1	0.0	7.5	5.7	4.8	7.8	28.3	16.6	1.6	0.0	74.4
19	0.0	0.3	0.0	1.4	4.4	7.2	4.9	10.1	23.2	17.7	1.7	0.0	71.0
20	0.0	0.0	1.8	2.8	9.6	6.3	4.6	12.1	32.2	17.6	0.3	0.0	87.4
21	0.2	0.4	0.1	1.8	3.8	2.6	8.2	8.7	6.6	5.1	0.3	0.0	37.9
22	0.2	0.0	2.1	1.5	7.3	2.9	3.6	10.6	5.8	3.6	0.0	0.0	37.6
23	0.0	0.5	0.0	0.8	1.9	1.6	6.3	7.4	14.6	4.8	0.2	0.0	38.0
24	0.2	0.0	1.8	3.8	14.2	3.2	6.2	8.4	16.2	4.9	0.0	0.0	59.0
25	0.0	0.3	0.0	5.7	6.7	2.1	3.4	6.3	24.7	6.1	0.0	0.6	55.9
26	1.1	0.1	1.5	2.1	10.5	2.9	4.9	8.9	11.9	1.6	0.7	0.0	46.1
27	0.0	1.2	2.9	3.1	8.3	6.2	4.8	7.6	10.9	3.0	0.3	0.0	48.3
28	0.7	0.8	2.0	8.5	3.6	5.9	2.8	9.6	11.5	0.7	1.3	0.0	47.4
29	0.6	0.0	2.0	2.1	6.6	7.7	6.2	7.1	20.2	3.0	0.2	0.0	55.7
30	0.0		1.3	4.5	10.5	7.0	10.7	9.0	8.8	1.7	0.2	0.3	54.1
31	0.0		1.6		7.4		5.5	10.5		6.1		0.5	31.6
Monthly	5.8	16.1	28.7	74.9	221.0	154.0	176.7	250.0	397.4	305.3	64.0	3.3	1,697.1
Daily record high	41.9	49.6	67.2	93.5	375.4	113.3	80.5	106.1	153.4	149.7	129.7	11.3	375.4
3 hr. Extremes	41.9	49.6	55.9	93.3	117.5	75.6	79.7	91.2	144.1	115.3	94.8	11.3	144.1
No. of rainy days	1	2	2	5	15	16	17	20	22	17	6	1	125

แผนภูมิปริมาณน้ำฝน (rain fall)

RAIN FALL (mm) 1981 - 1998 (2524 - 2541) Station : BANGKOK METROPOLIS



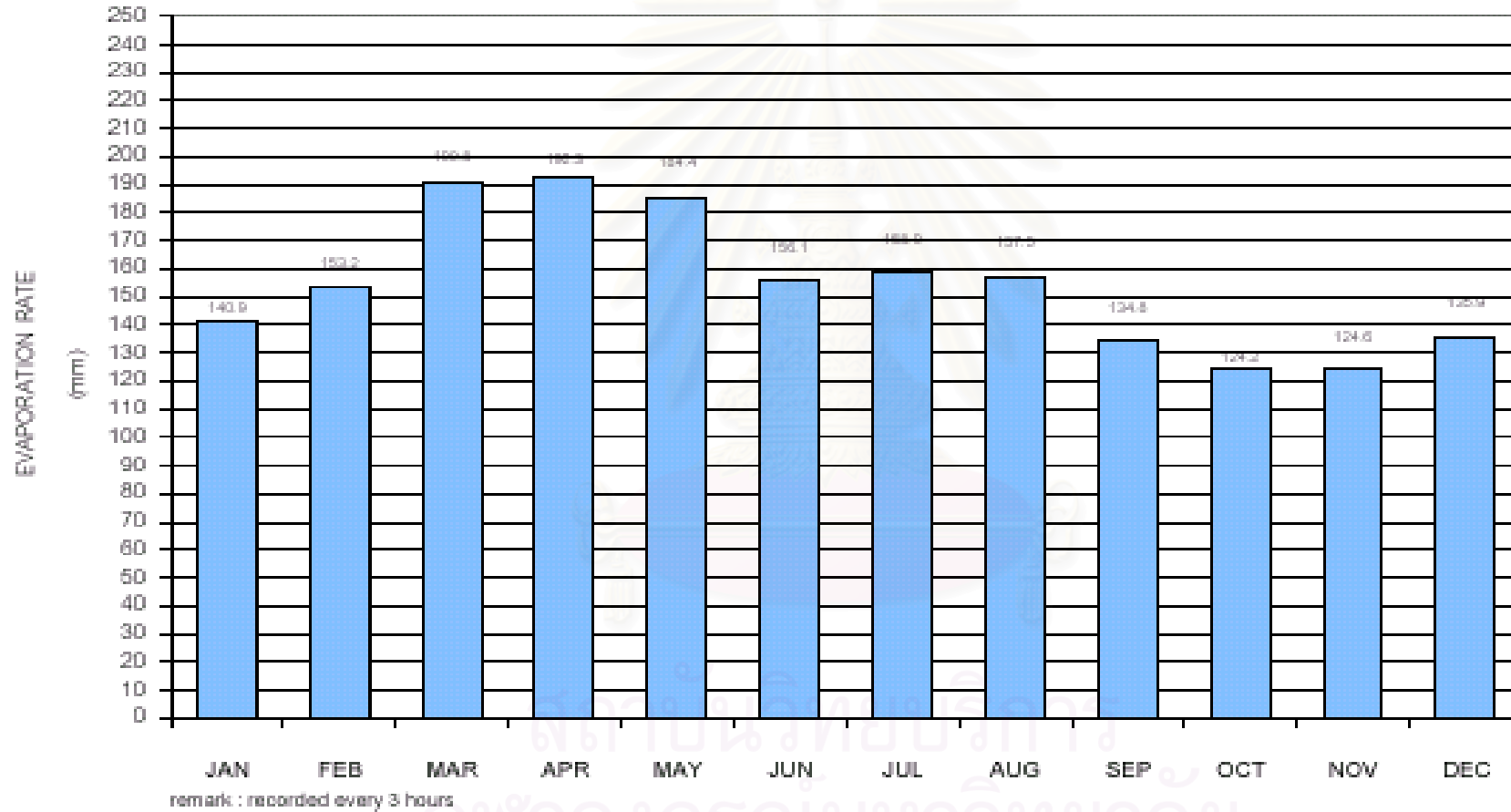
remark : recorded every 3 hours

ตารางแสดงผลข้อมูลค่าเฉลี่ยอัตราการระเหยของน้ำรายวัน (evaporation)

EVAPORATION (mm) 1981 - 1998 (2524 - 2541)													Station : BANGKOK METROPOLIS
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	4.1	5.1	5.9	6.2	6.3	4.9	5.8	5.0	4.7	3.9	4.5	4.3	61.0
2	4.0	5.0	5.5	6.8	6.7	5.4	5.3	5.1	5.4	3.8	4.3	4.1	61.3
3	4.6	4.6	5.9	6.8	6.8	5.5	4.9	5.1	5.3	3.9	3.9	4.3	61.7
4	4.3	4.6	5.5	6.4	6.8	5.6	5.1	4.9	5.1	3.7	3.8	4.1	59.8
5	4.3	5.3	5.6	7.9	6.5	4.7	4.9	4.4	5.2	4.1	4.4	4.5	61.7
6	4.8	5.3	4.9	6.3	5.9	4.5	4.5	5.6	4.6	4.4	3.9	4.5	59.2
7	4.5	5.3	5.3	6.7	5.9	5.0	5.8	5.4	4.4	4.2	4.5	4.6	61.6
8	4.7	5.2	6.0	6.4	5.8	5.1	5.7	5.2	4.4	4.8	4.6	4.4	62.3
9	4.4	5.4	6.2	6.3	5.2	4.6	5.1	5.4	4.2	3.7	4.0	4.3	58.8
10	4.0	5.2	6.4	6.3	5.3	5.7	5.3	5.2	4.4	3.5	4.1	4.3	59.6
11	4.4	5.5	6.0	6.8	5.5	5.0	5.1	4.5	4.7	4.4	3.7	4.2	59.8
12	4.9	4.5	6.3	6.4	6.1	4.8	5.5	4.7	4.5	4.8	4.0	4.4	61.1
13	4.6	5.5	6.4	6.8	6.0	5.0	4.5	4.7	4.3	3.6	4.2	4.1	59.6
14	4.4	4.9	6.1	5.8	5.8	5.2	5.3	4.9	4.4	4.0	3.6	4.5	58.8
15	4.5	5.3	6.2	6.6	6.5	6.1	5.0	5.6	3.8	4.3	4.2	4.6	62.7
16	4.7	5.4	5.9	6.0	6.4	5.2	5.4	5.4	4.3	4.3	3.8	4.8	61.6
17	4.4	5.2	6.4	5.9	6.1	5.4	4.6	5.3	5.1	3.9	3.6	4.1	60.0
18	4.6	5.3	6.4	6.2	5.5	5.6	5.5	4.7	4.5	3.8	4.4	3.6	60.0
19	4.7	5.6	6.8	6.4	5.7	5.2	5.2	5.0	5.1	4.0	4.3	4.7	62.6
20	4.3	5.3	6.5	7.1	5.5	5.0	5.3	4.8	4.7	3.9	3.9	4.5	60.9
21	4.6	5.5	6.8	6.7	5.4	5.2	4.5	4.9	5.0	4.3	4.7	4.5	62.1
22	4.3	5.6	6.7	6.1	6.5	5.2	4.8	6.0	4.7	3.6	4.4	4.6	62.5
23	4.3	5.9	6.6	5.9	6.2	5.7	5.1	5.0	4.2	3.2	4.6	4.7	61.3
24	4.5	5.1	6.3	6.5	6.7	5.8	4.9	5.0	3.2	4.0	4.5	4.5	61.2
25	4.7	5.3	6.7	5.7	6.4	5.0	4.8	4.9	3.9	3.9	4.5	4.7	60.5
26	4.5	5.6	6.4	5.9	5.4	5.4	4.9	4.4	4.5	3.7	4.8	4.8	60.2
27	4.2	5.5	6.5	6.1	5.8	4.9	5.4	4.9	3.9	3.9	4.0	4.1	59.4
28	5.2	5.4	6.1	6.6	5.3	4.9	5.6	5.1	3.9	4.4	3.5	4.5	60.4
29	5.2	5.9	6.4	6.5	5.7	5.3	5.0	5.3	4.0	4.2	4.0	4.3	61.7
30	5.1		6.3	6.3	5.8	5.4	5.2	5.6	4.3	4.0	4.1	4.4	56.4
31	4.7		6.0		5.2		4.9	5.3		4.1		3.9	34.0
AVG Monthly	140.9	153.2	190.8	192.3	184.4	156.1	158.9	157.5	134.8	124.2	124.6	135.9	1853.6
Daily Mean	4.5	5.3	6.2	6.4	5.9	5.2	5.1	5.1	4.5	4.0	4.2	4.4	5.1
Extremes	7.9	8.8	10.0	30.6	13.2	10.5	9.9	12.9	9.4	9.5	8.8	8.7	30.6

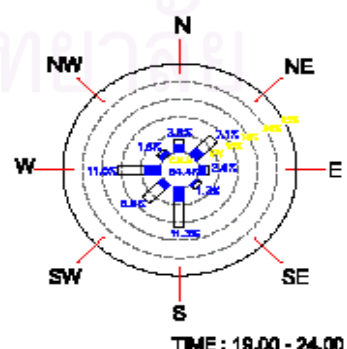
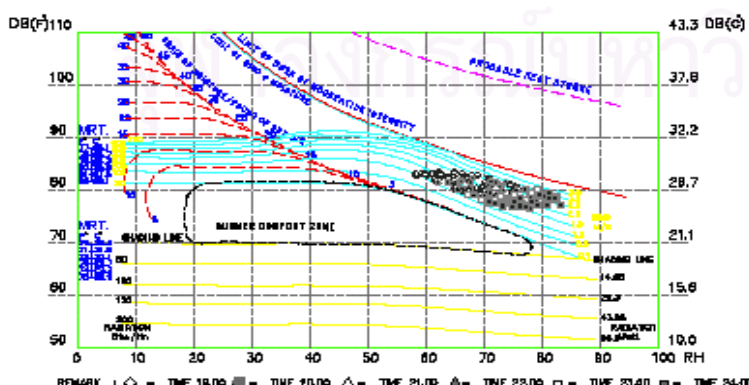
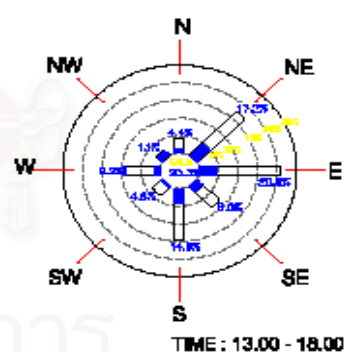
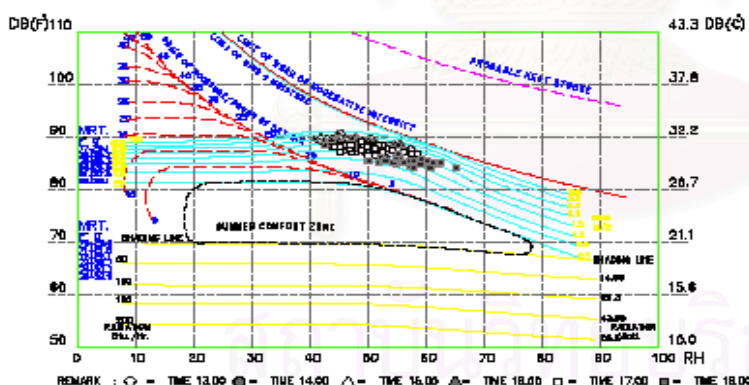
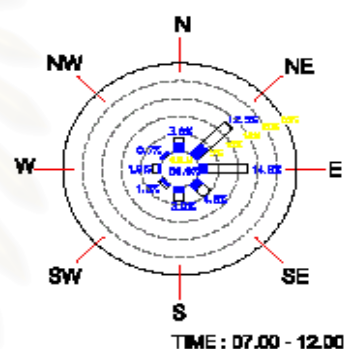
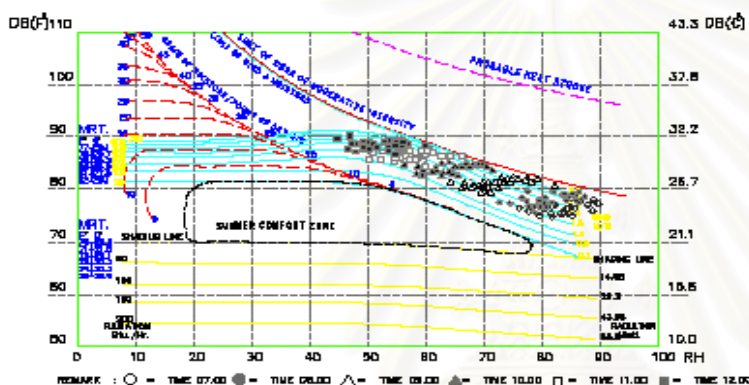
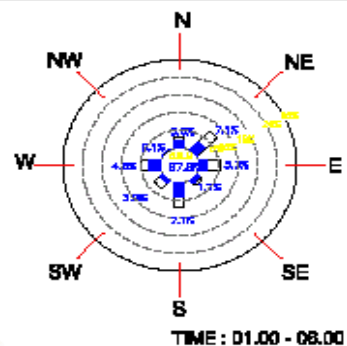
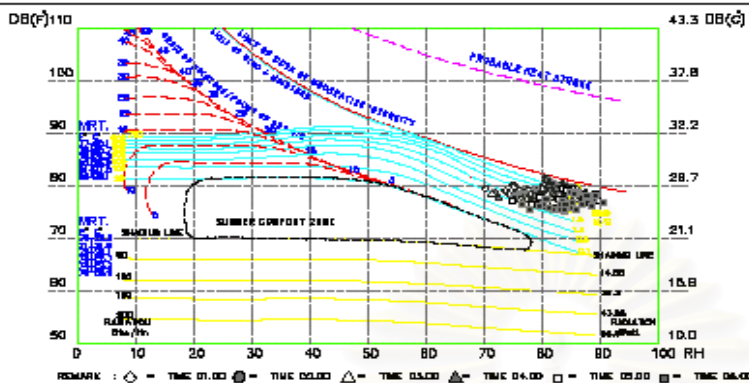
แผนภูมิค่าเฉลี่ยอัตราการระเหยของน้ำรายเดือน (average monthly evaporation from U.S. class "A" pan)

AVERAGE MONTHLY EVAPORATION (mm) from U.S. class "A" pan 1981 - 1998 (2524 - 2541) Station : BANGKOK METROPOLIS



แผนภูมิความสัมพันธ์ระหว่างข้อมูลสภาวะอากาศในแผนภูมิไบโอไคลเมตริก (bioclimatic chart) กับ
 แผนภูมิแสดงความเร็วและทิศทางที่เกิดลมรายเดือน (wind rose)
 แยกตามช่วงเวลา

BIOCLIMATIC CHART & WIND ROSE : JANUARY 1981-1998 (2524-2541) Station : BANGKOK METROPOLIS

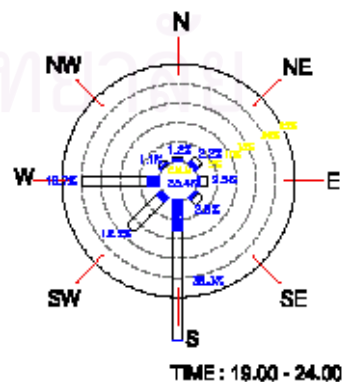
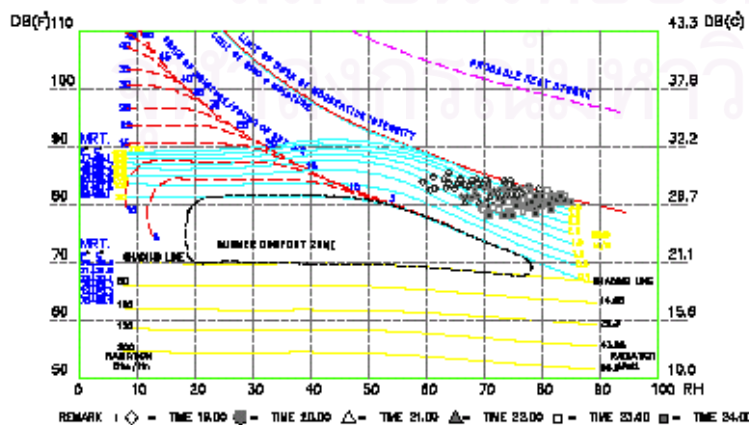
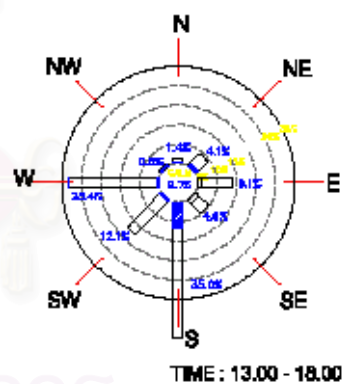
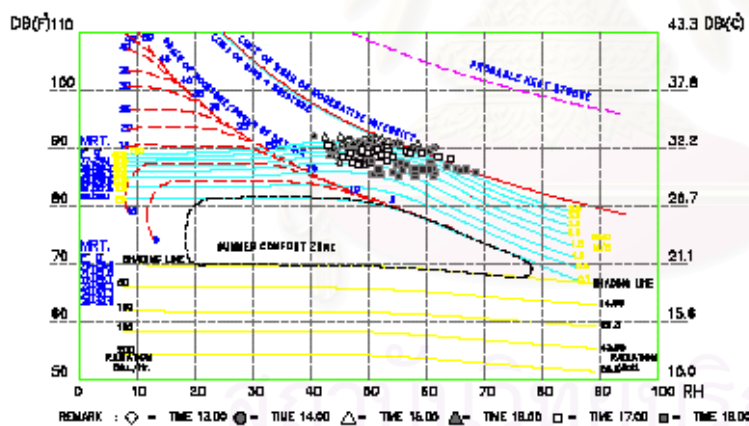
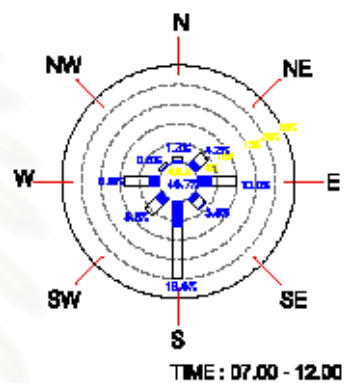
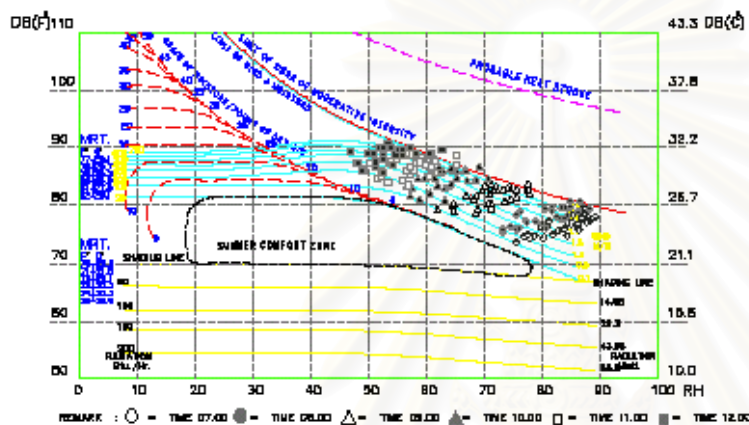
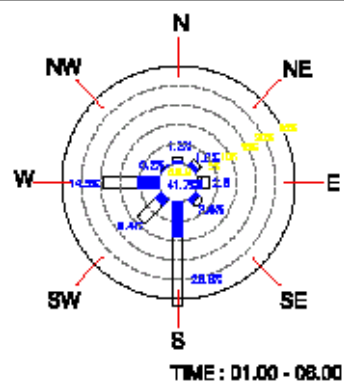
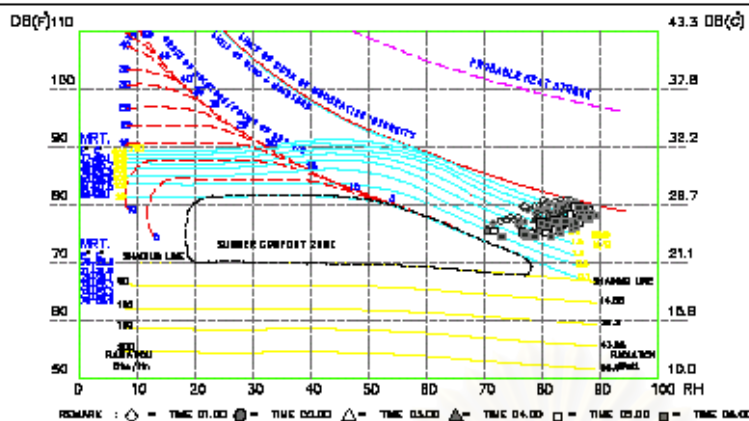


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : FEBRUARY 1981-1998 (2524-2541) Station : BANGKOK METROPOLIS

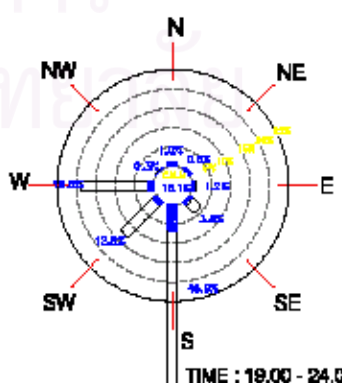
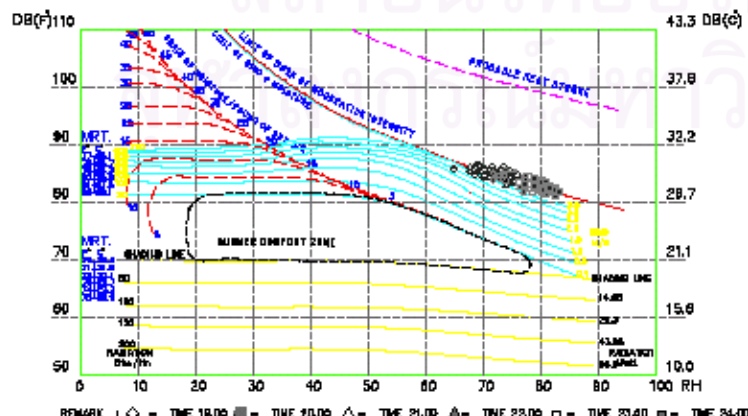
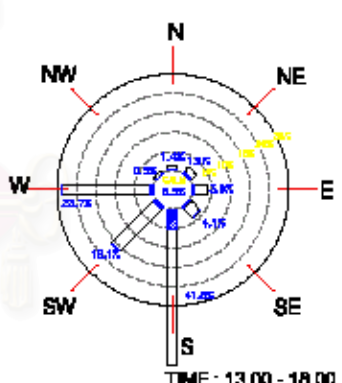
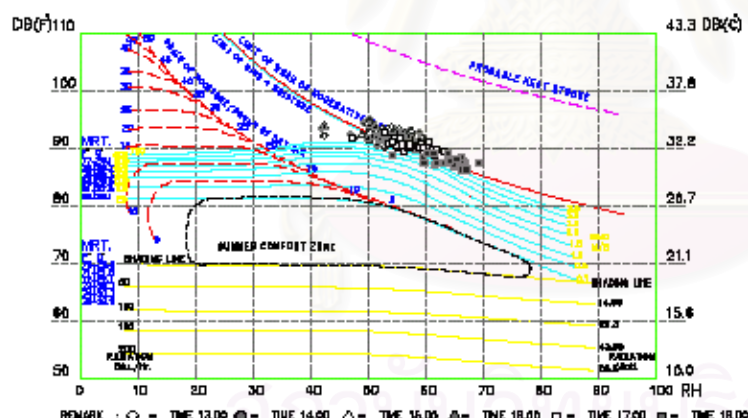
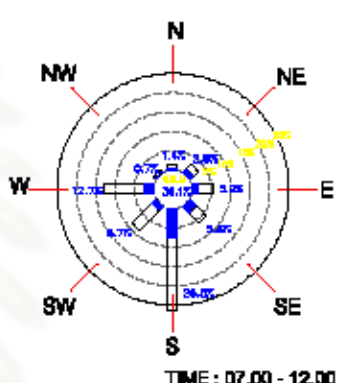
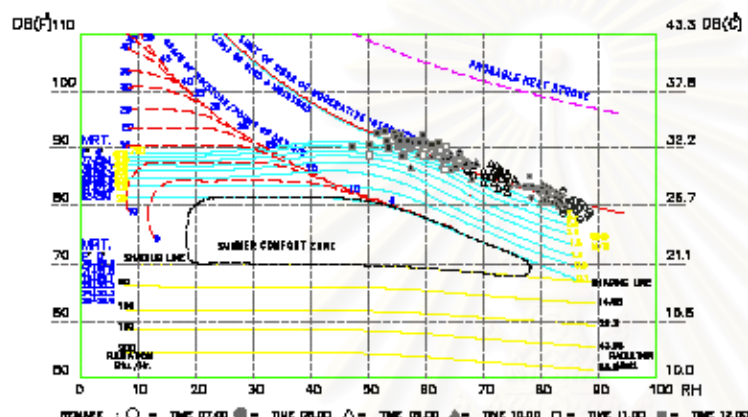
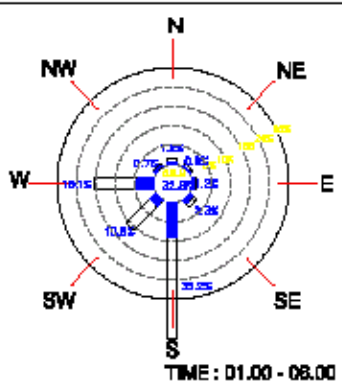
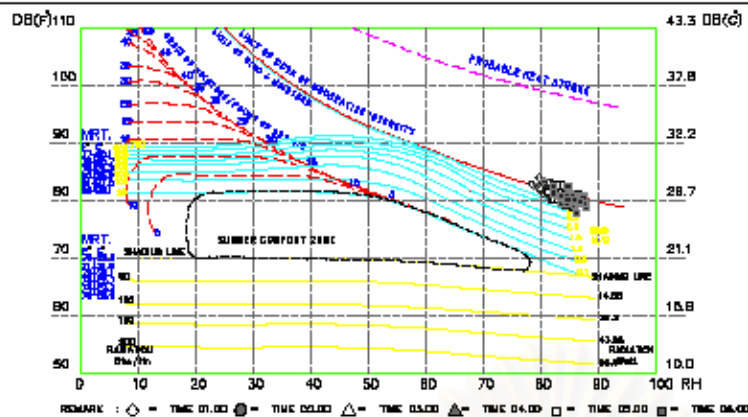


BIOCLIMATIC CHART

WIND ROSE



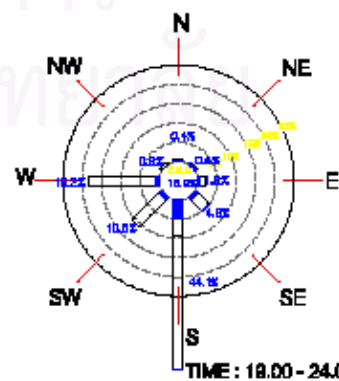
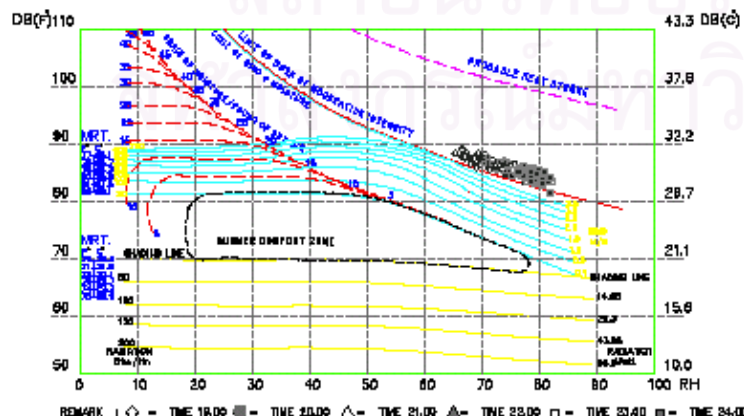
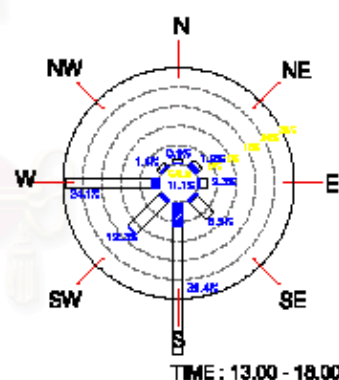
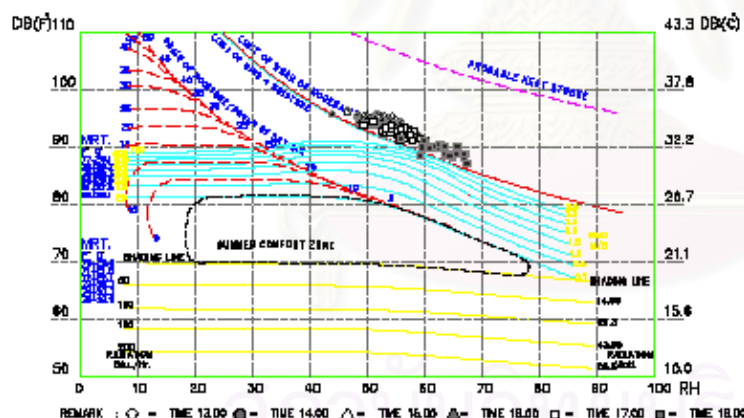
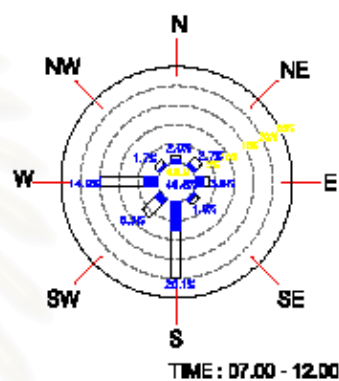
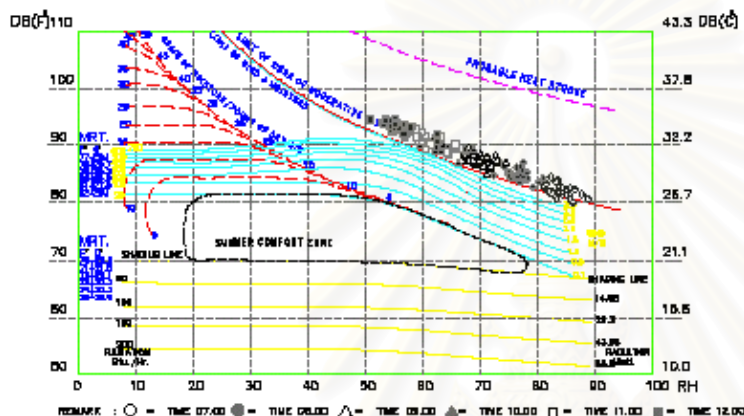
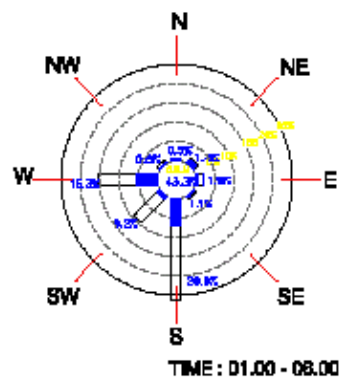
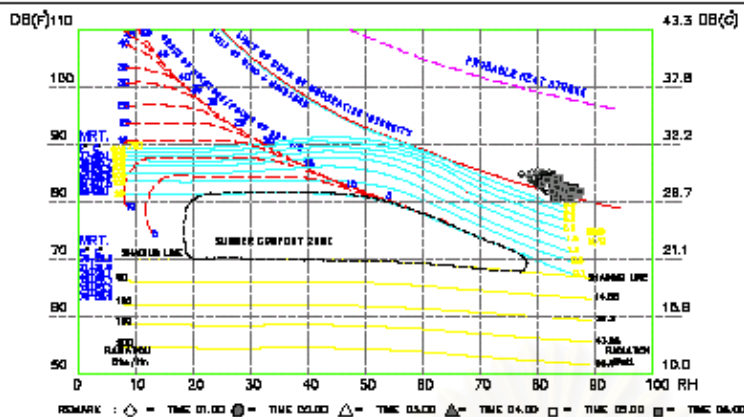
BIOCLIMATIC CHART & WIND ROSE : MARCH 1991-1998 (2524-2541) Station : BANGKOK METROPOLIS



BIOCLIMATIC CHART



BIOCLIMATIC CHART & WIND ROSE : APRIL 1981-1998 (2524-2541) Station : BANGKOK METROPOLIS

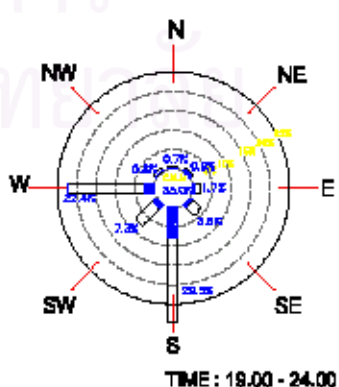
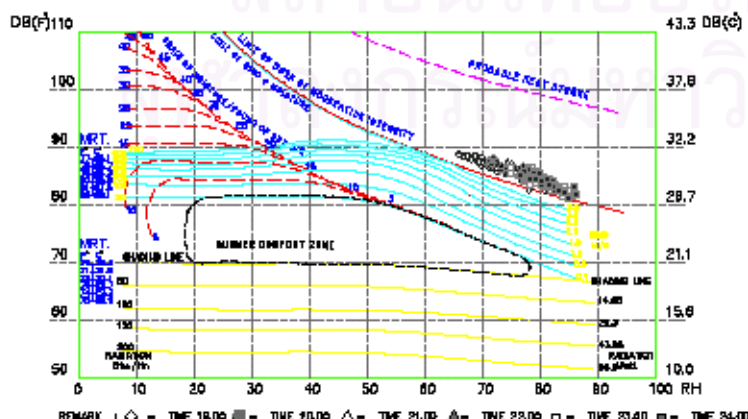
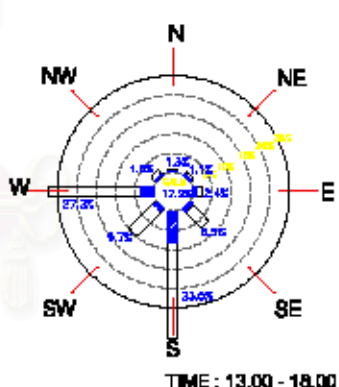
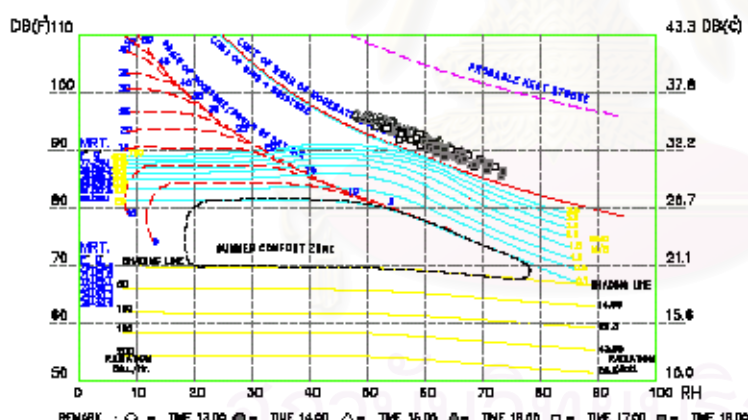
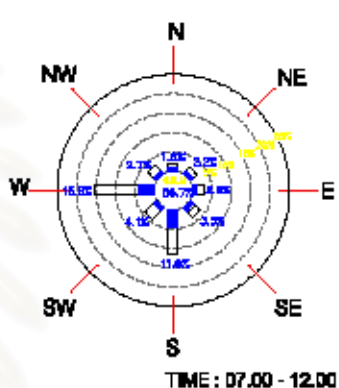
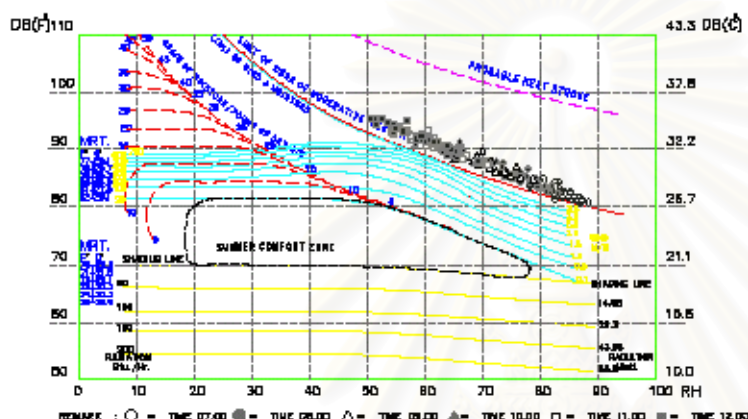
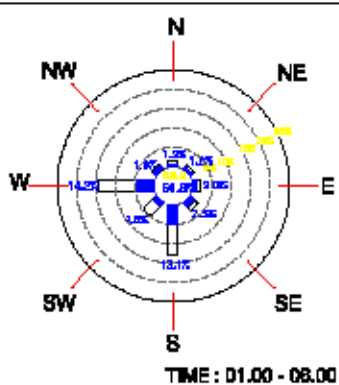
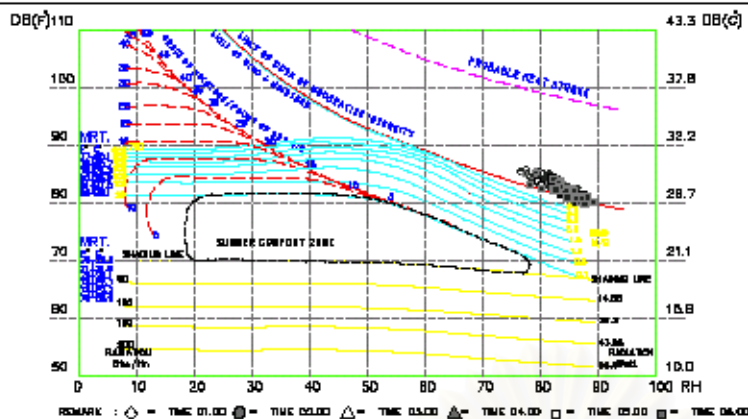


BIOCLIMATIC CHART

WIND ROSE



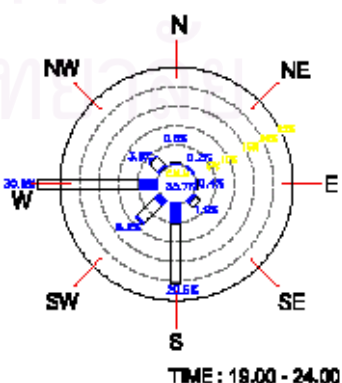
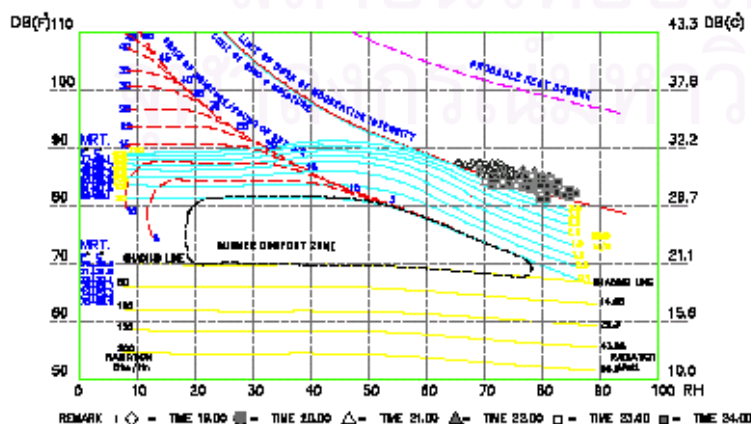
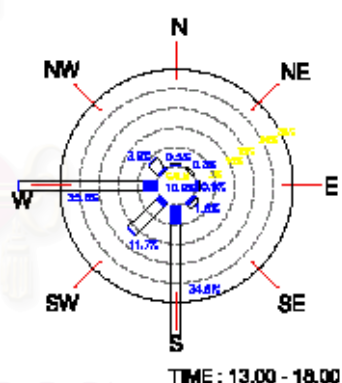
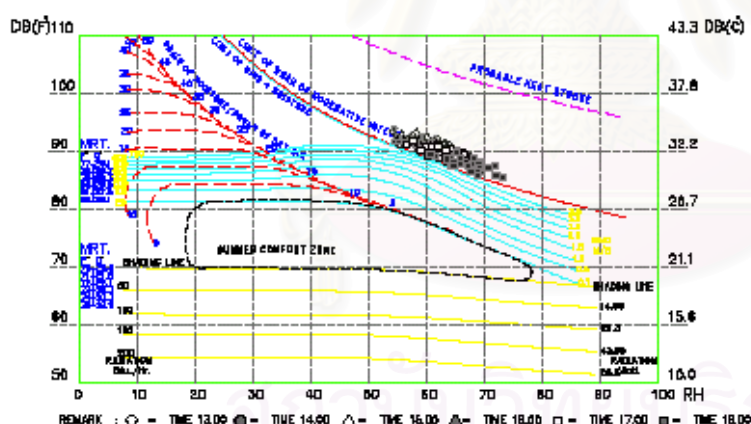
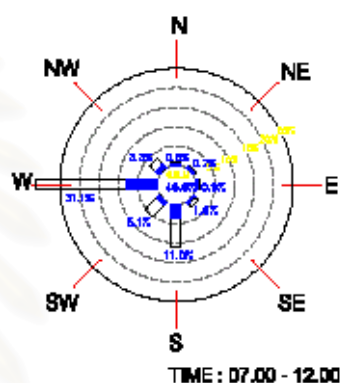
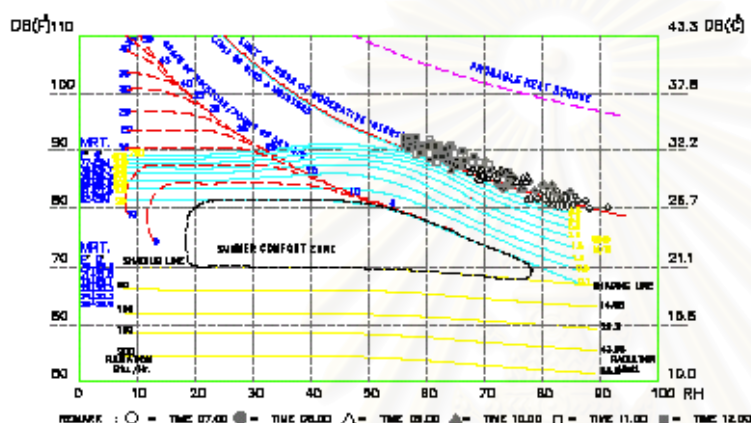
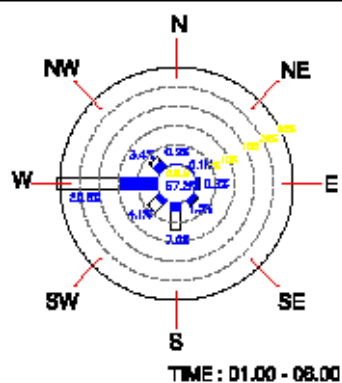
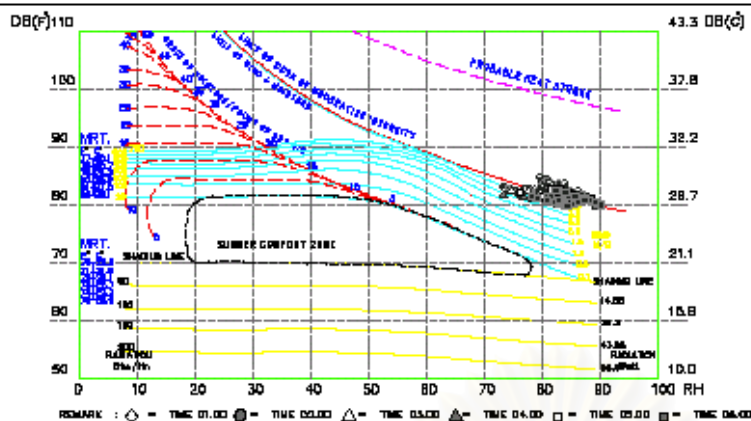
BIOCLIMATIC CHART & WIND ROSE : MAY 1981-1998 (2524-2541) Station : BANGKOK METROPOLIS



BIOCLIMATIC CHART



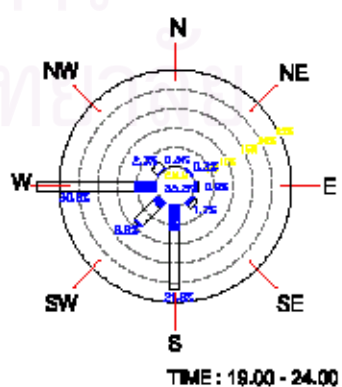
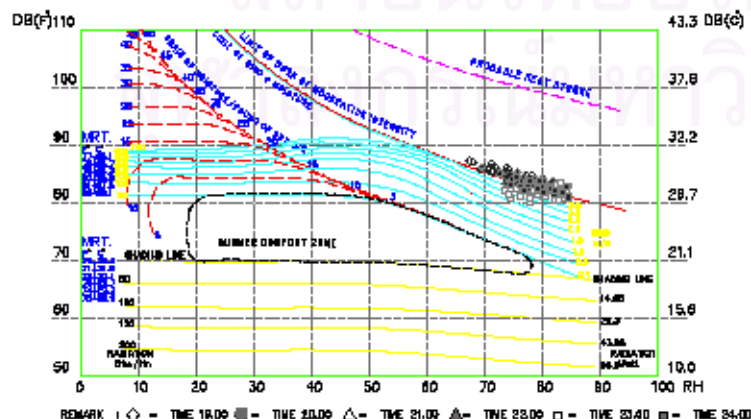
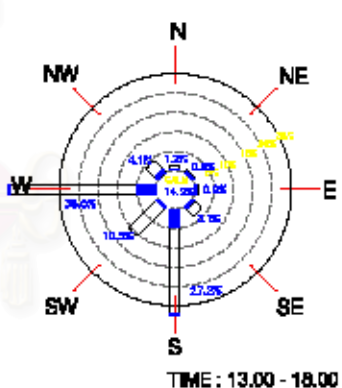
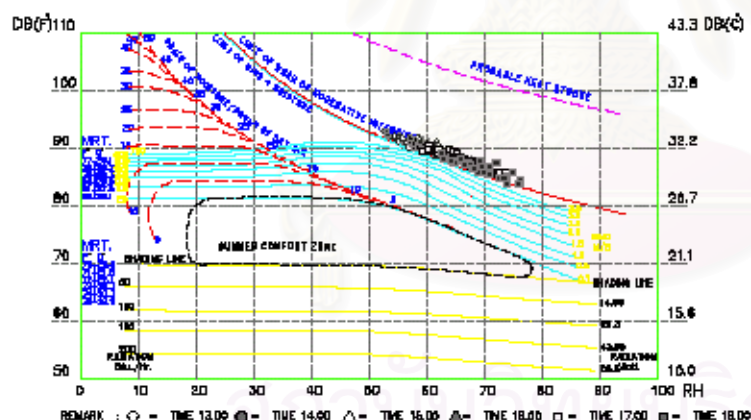
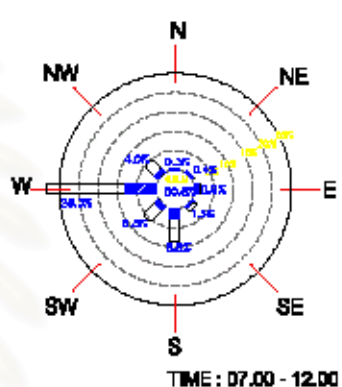
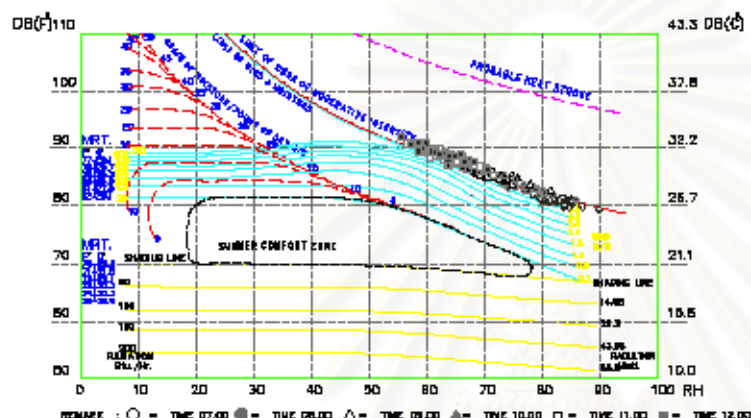
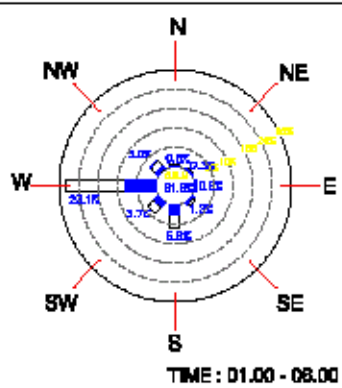
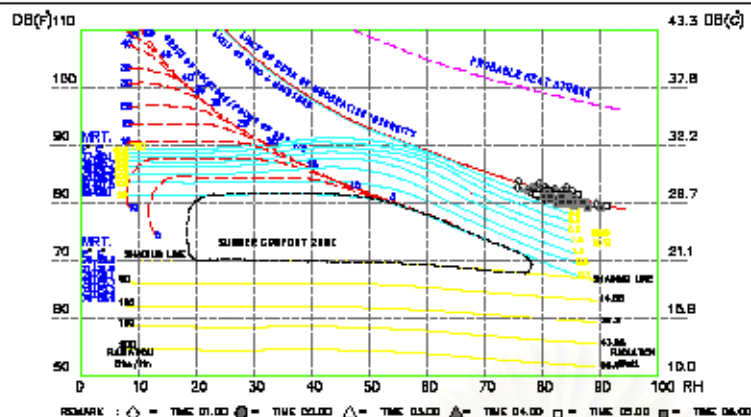
BIOCLIMATIC CHART & WIND ROSE : JUNE 1981-1998 (2524-2541) Station : BANGKOK METROPOLIS



BIOCLIMATIC CHART



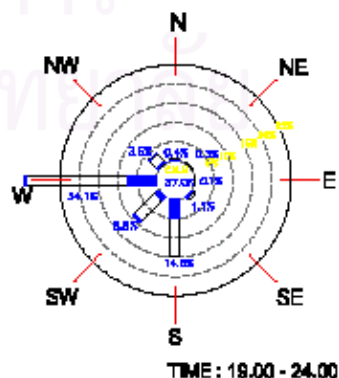
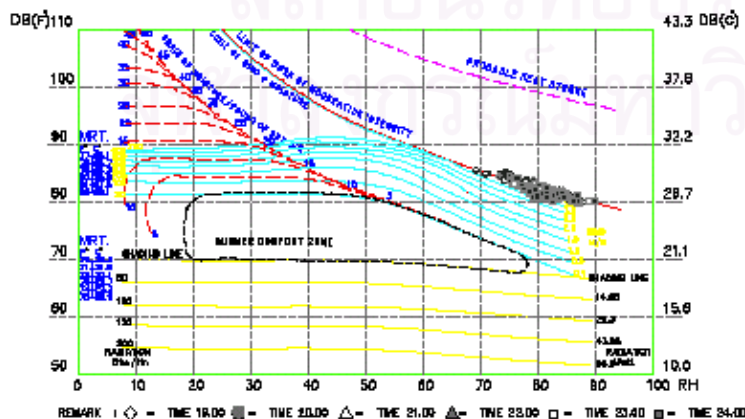
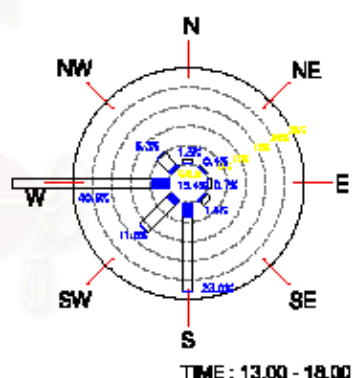
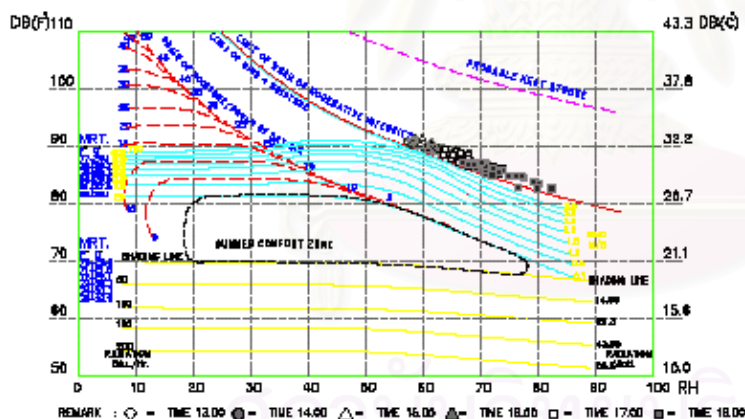
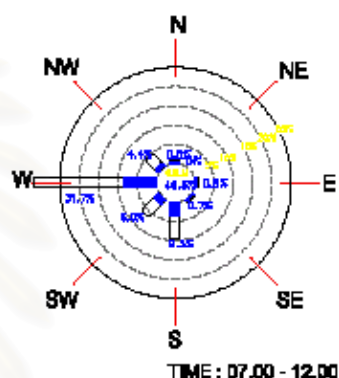
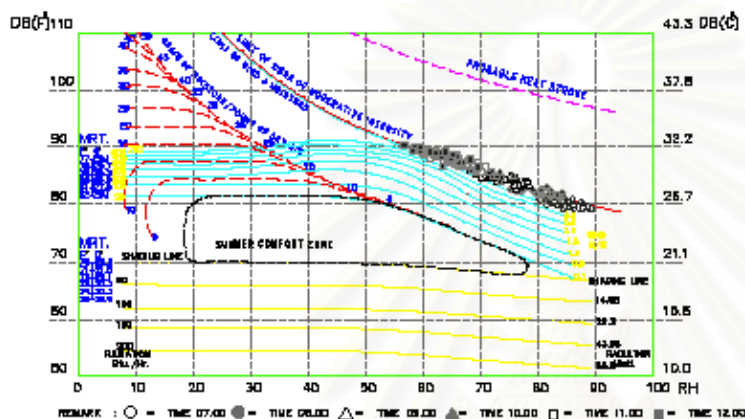
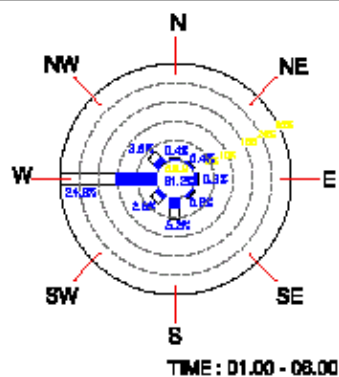
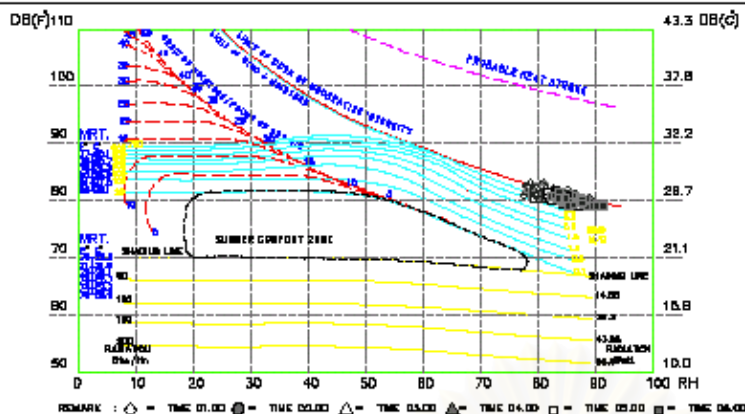
BIOCLIMATIC CHART & WIND ROSE : JULY 1961-1998 (2524-2541) Station : **BANGKOK METROPOLIS**



BIOCLIMATIC CHART



BIOCLIMATIC CHART & WIND ROSE : AUGUST 1981-1998 (2524-2541) Station : BANGKOK METROPOLIS

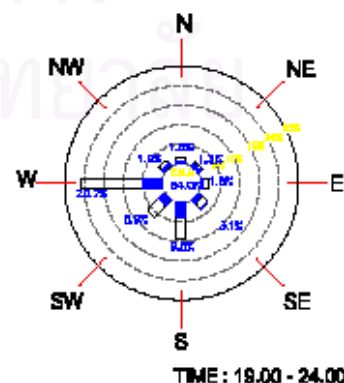
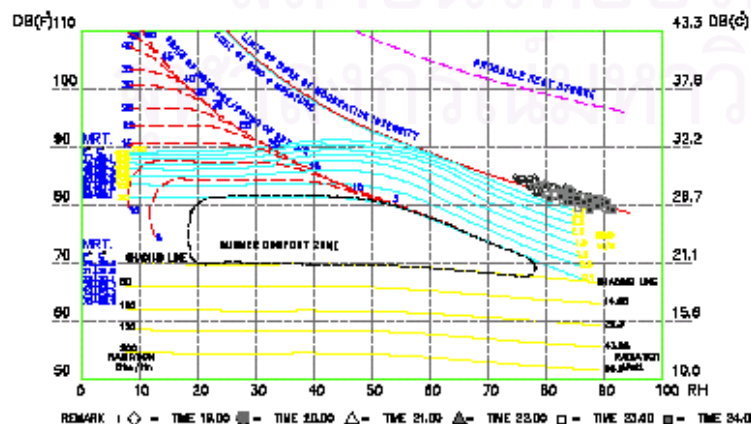
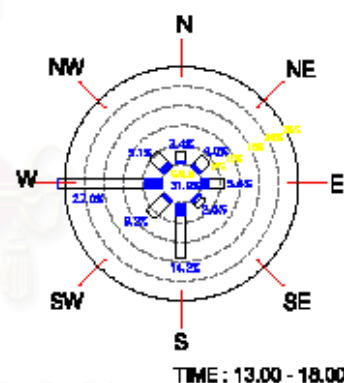
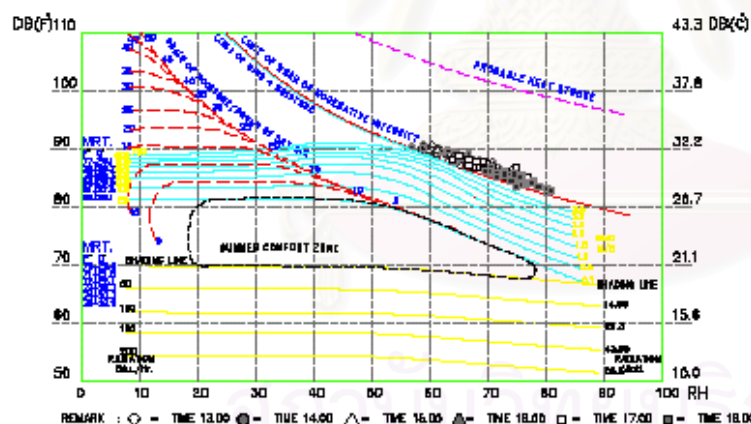
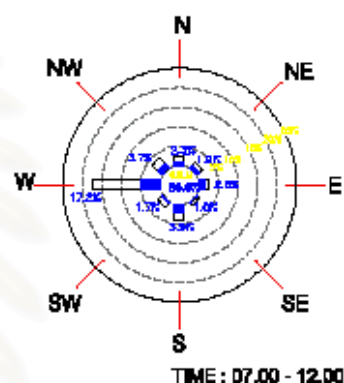
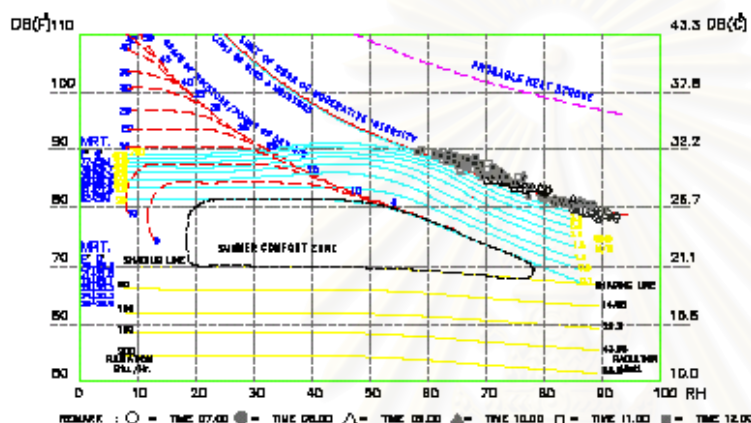
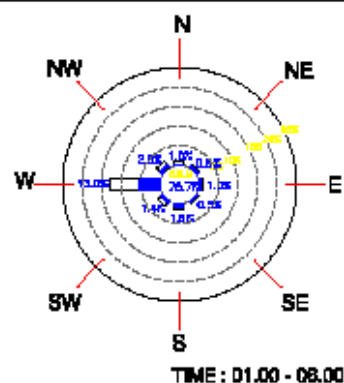
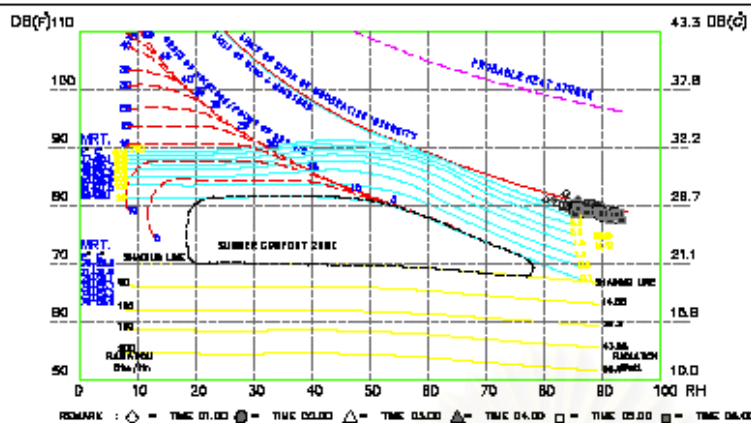


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : SEPTEMBER 1981-1998 (2524-2541) Station : BANGKOK METROPOLIS

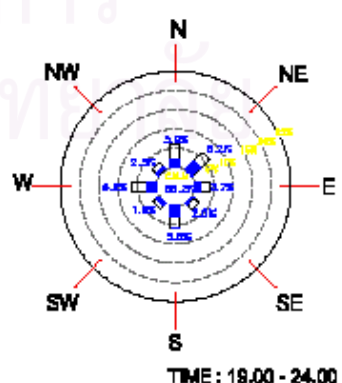
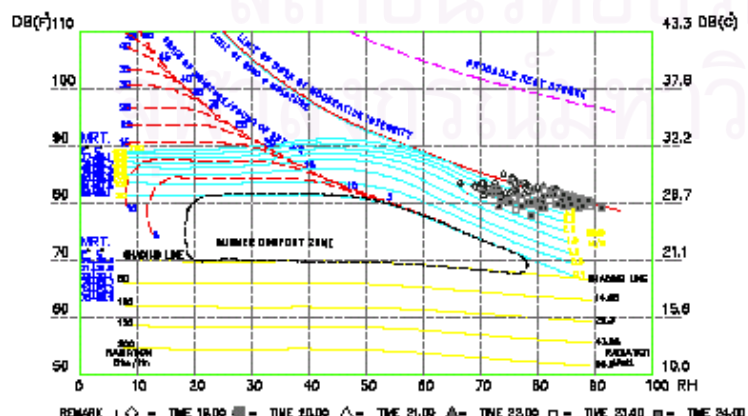
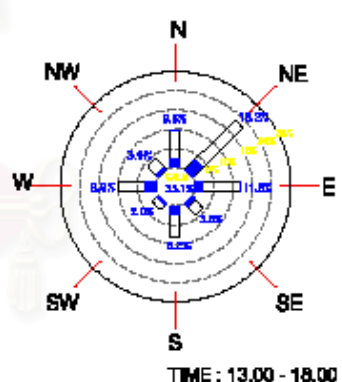
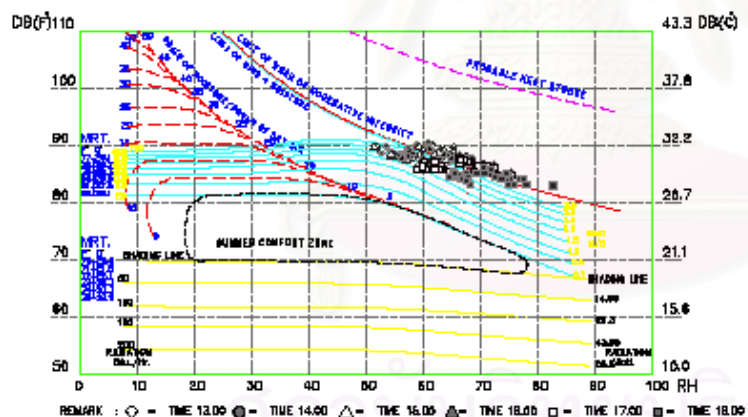
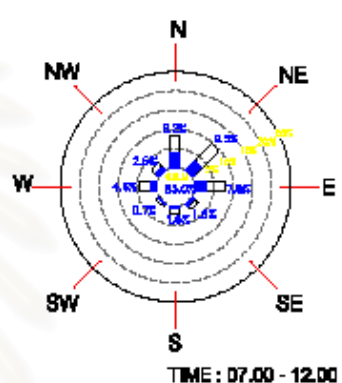
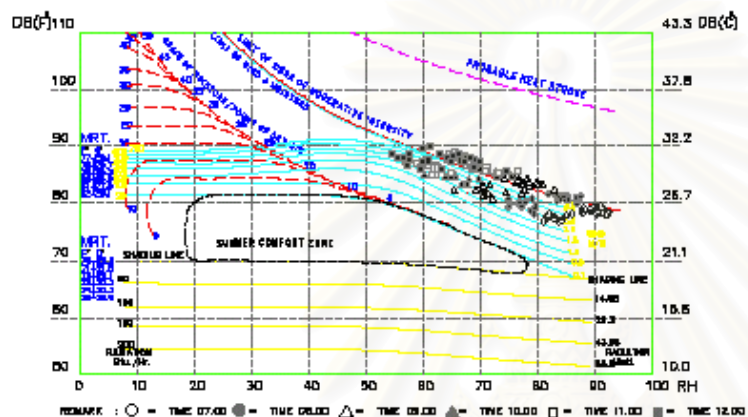
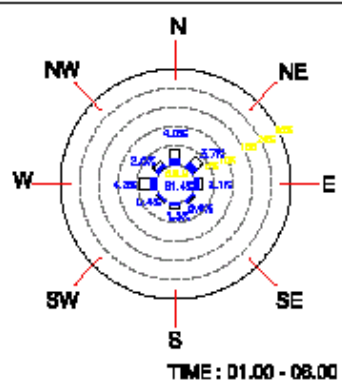
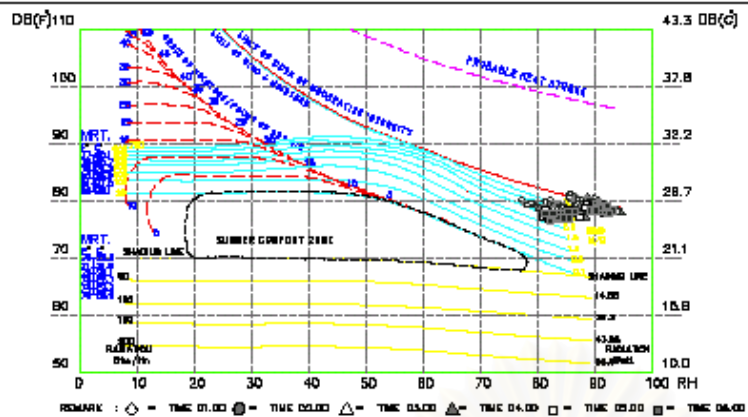


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : OCTOBER 1981-1999 (2524-2541) Station : BANGKOK METROPOLIS

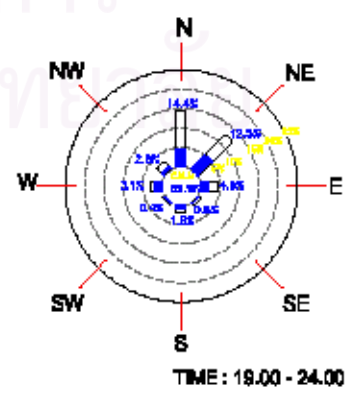
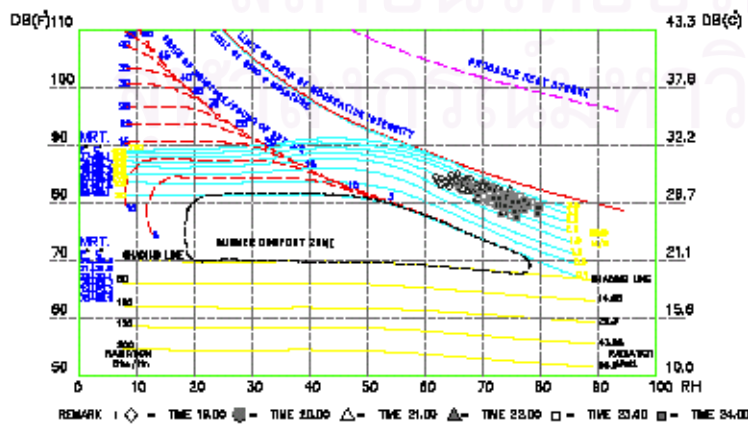
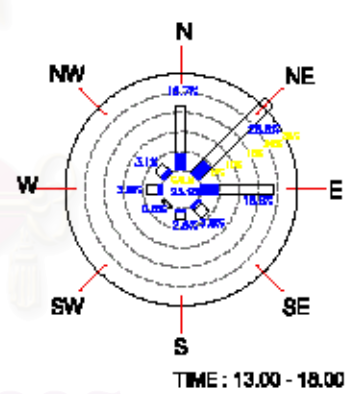
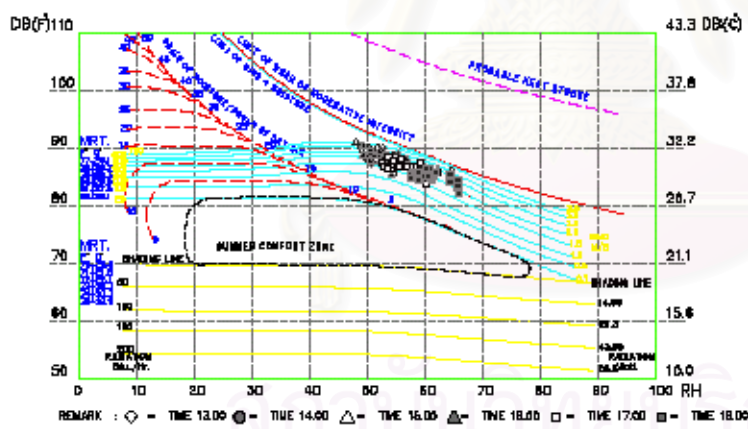
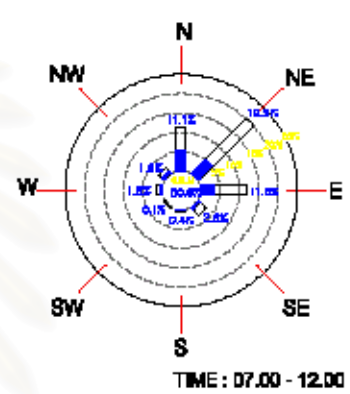
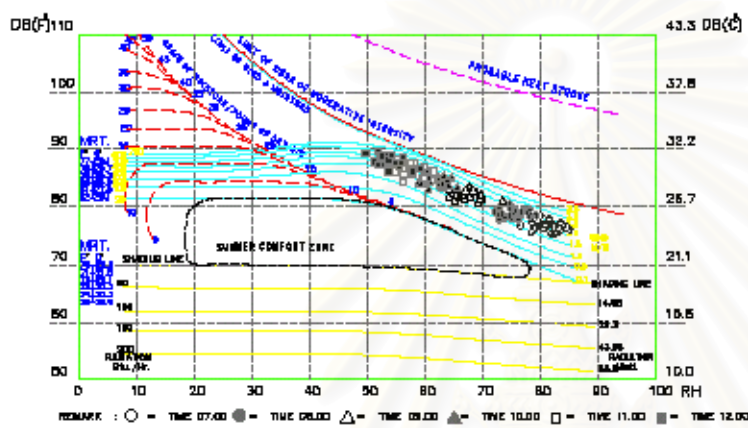
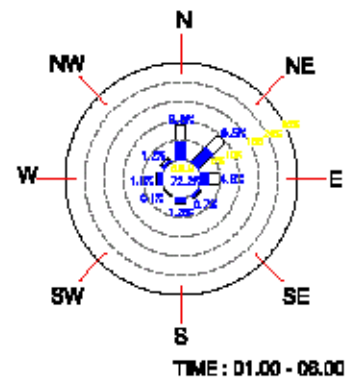
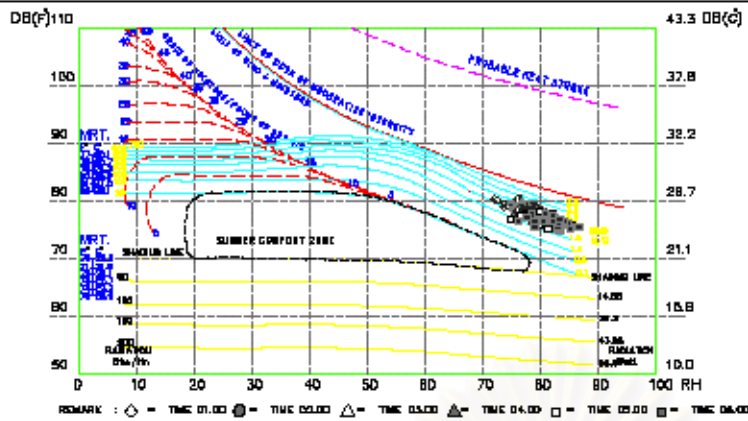


BIOCLIMATIC CHART

WIND ROSE



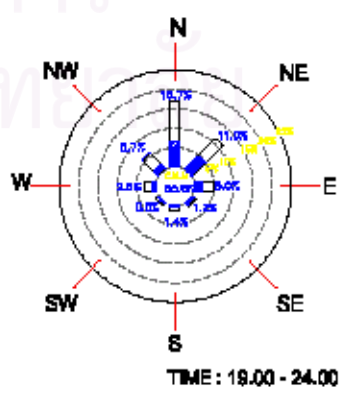
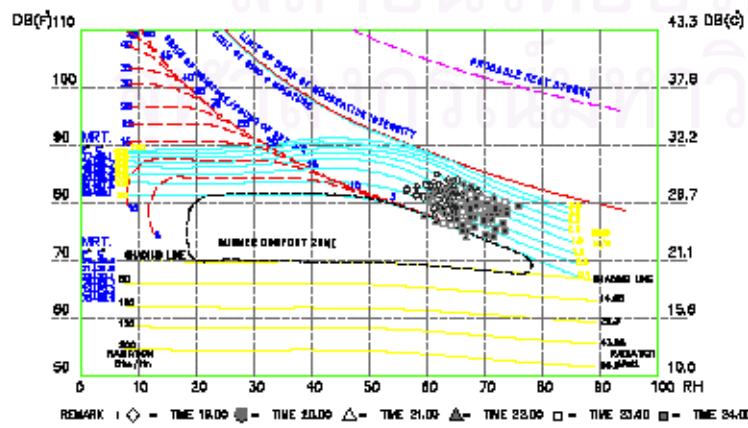
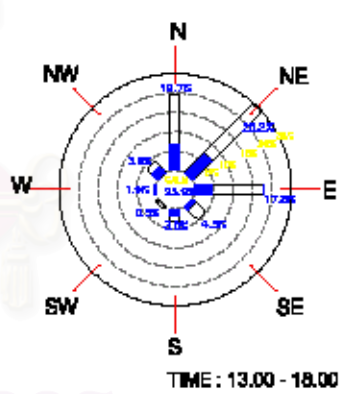
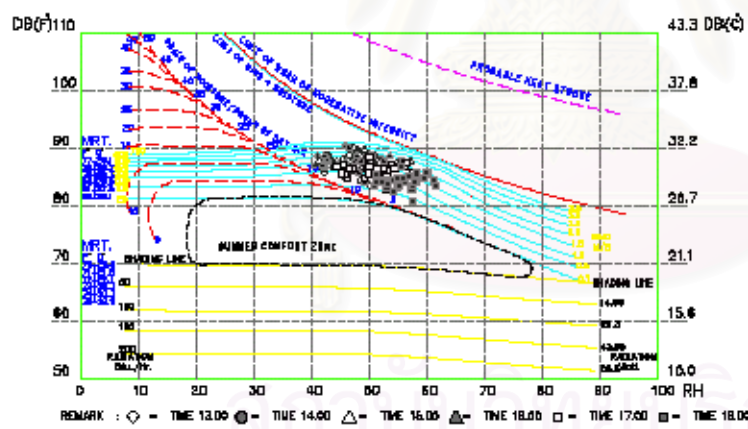
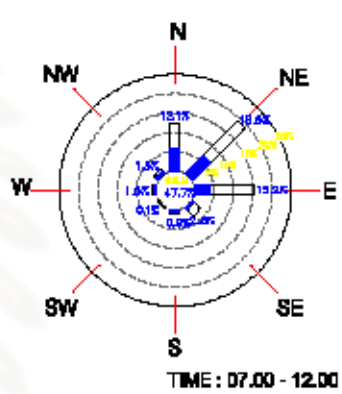
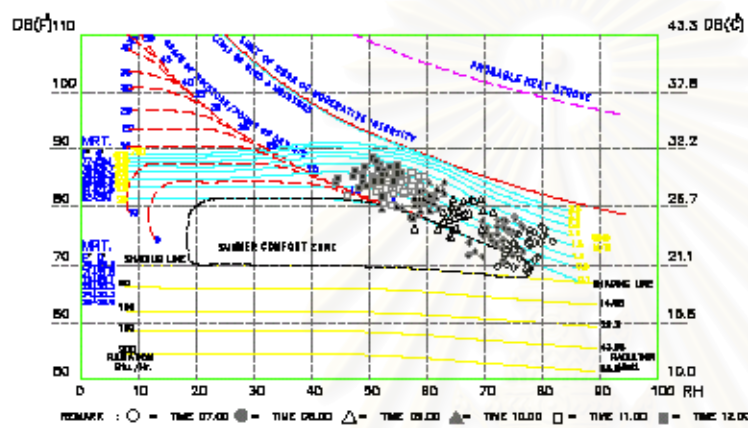
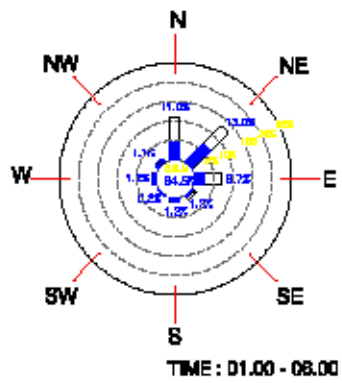
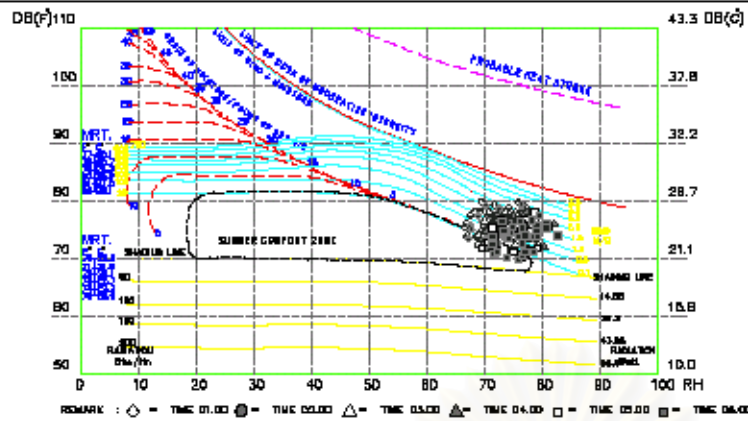
BIOCLIMATIC CHART & WIND ROSE : NOVEMBER 1981-1998 (2524-2541) Station : BANGKOK METROPOLIS



BIOCLIMATIC CHART



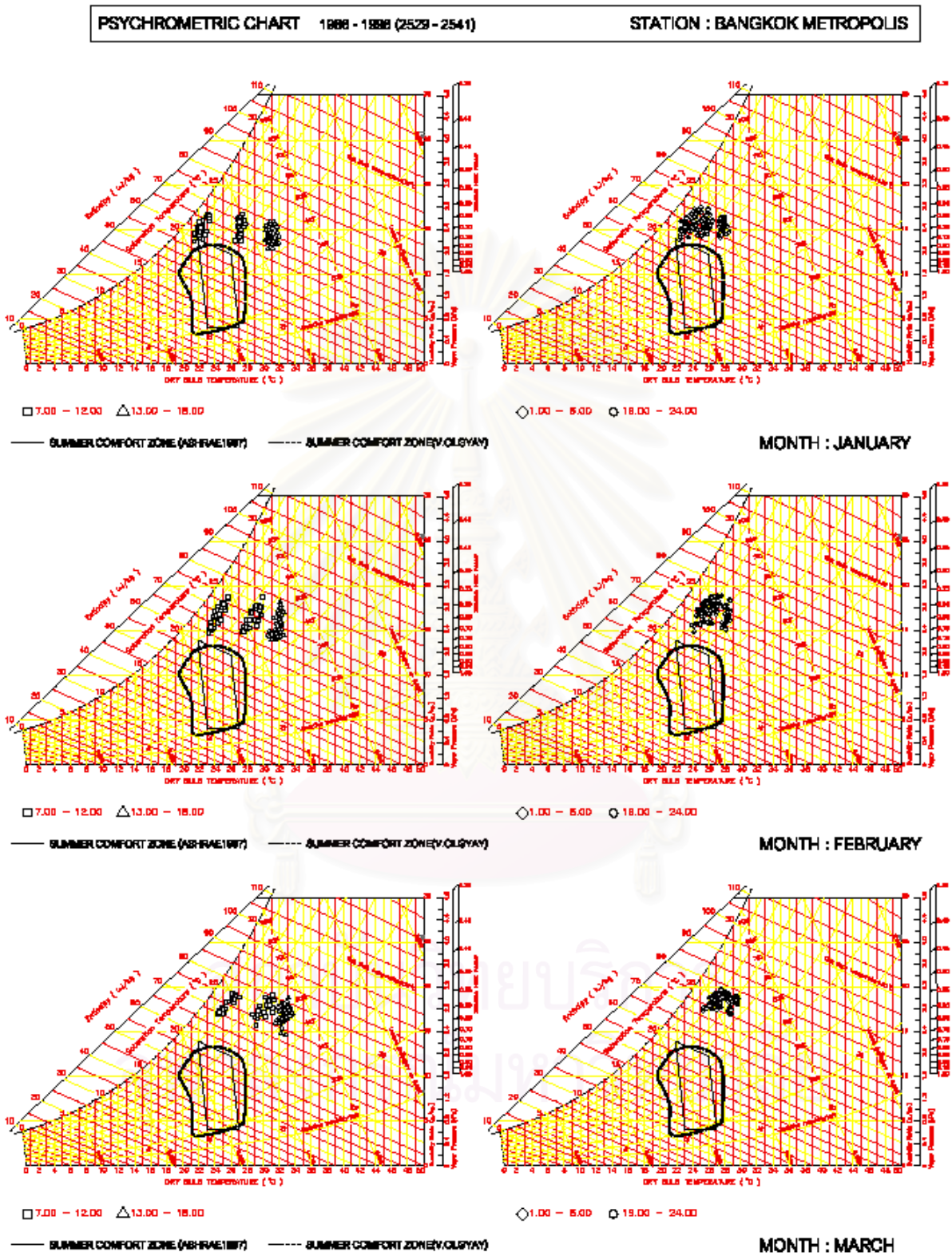
BIOCLIMATIC CHART & WIND ROSE : DECEMBER 1981-1998 (2524-2541) Station : BANGKOK METROPOLIS



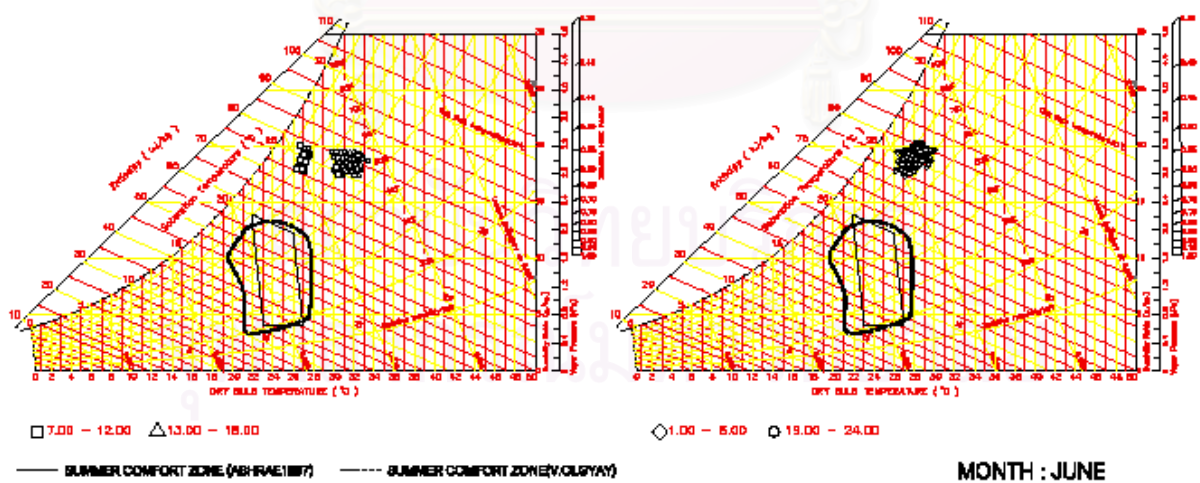
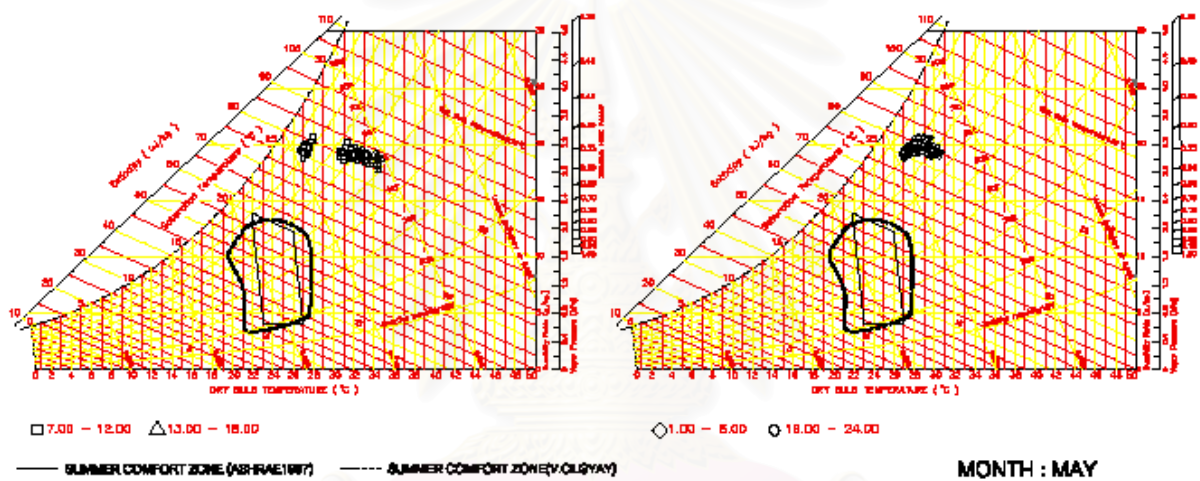
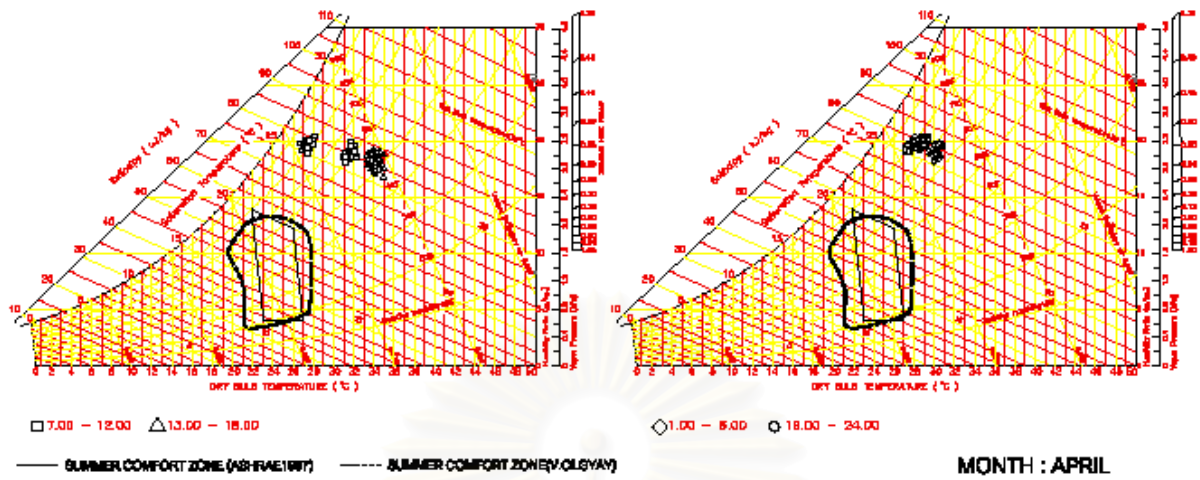
BIOCLIMATIC CHART



แผนภูมิความสัมพันธ์ระหว่างข้อมูลสภาวะอากาศ ในแผนภูมิไซโครเมตริก (psychrometric chart) แยกตามช่วงเวลา

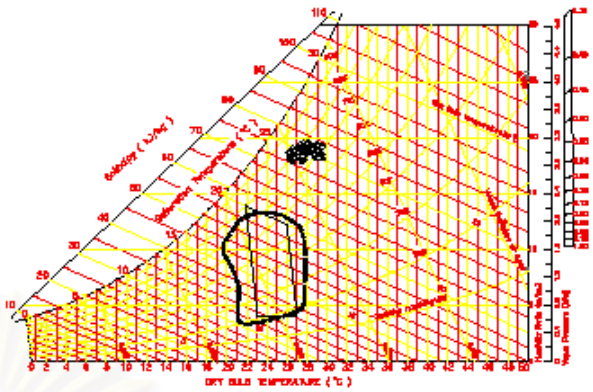
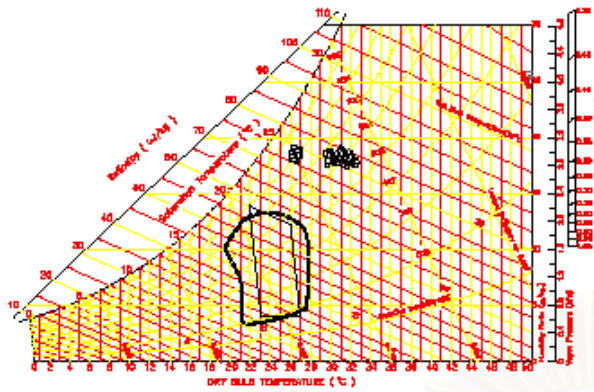


PSYCHROMETRIC CHART 1986 - 1988 (2529 - 2541) STATION : BANGKOK METROPOLIS



PSYCHROMETRIC CHART 1986 - 1988 (2529 - 2541)

STATION : BANGKOK METROPOLIS

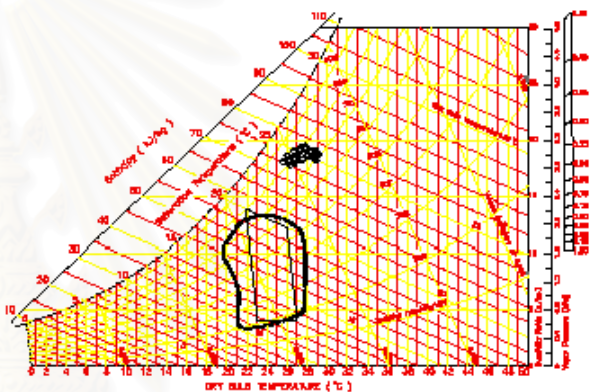
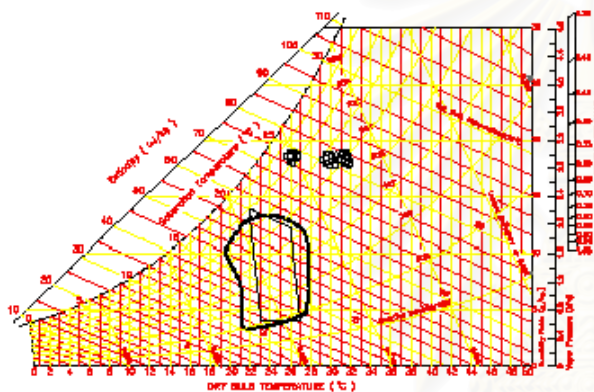


□ 7.00 - 12.00 △ 13.00 - 18.00

◇ 1.00 - 5.00 ○ 18.00 - 24.00

— SUMMER COMFORT ZONE (ASHRAE1987) - - - SUMMER COMFORT ZONE (V.O.L.G.Y.A.V)

MONTH : JULY

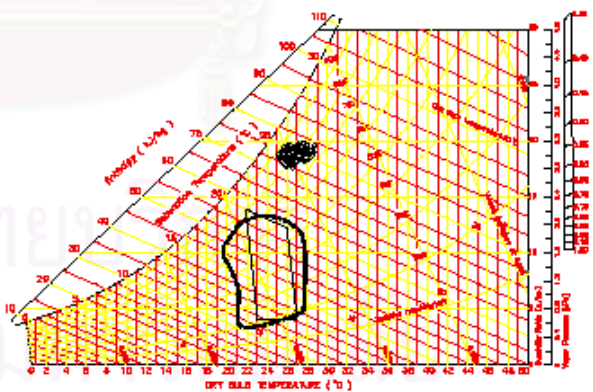
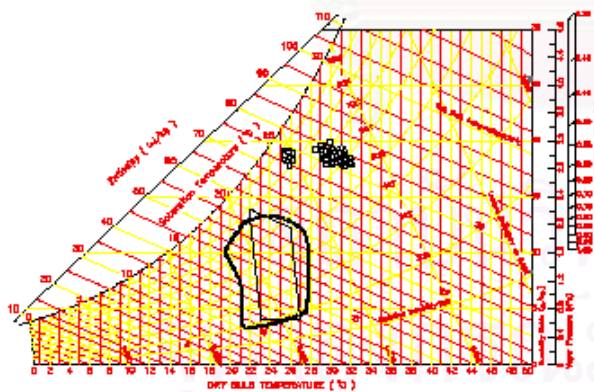


□ 7.00 - 12.00 △ 13.00 - 18.00

◇ 1.00 - 5.00 ○ 18.00 - 24.00

— SUMMER COMFORT ZONE (ASHRAE1987) - - - SUMMER COMFORT ZONE (V.O.L.G.Y.A.V)

MONTH : AUGUST



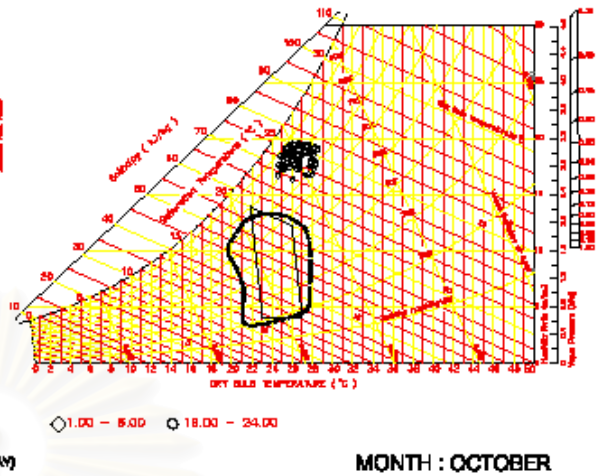
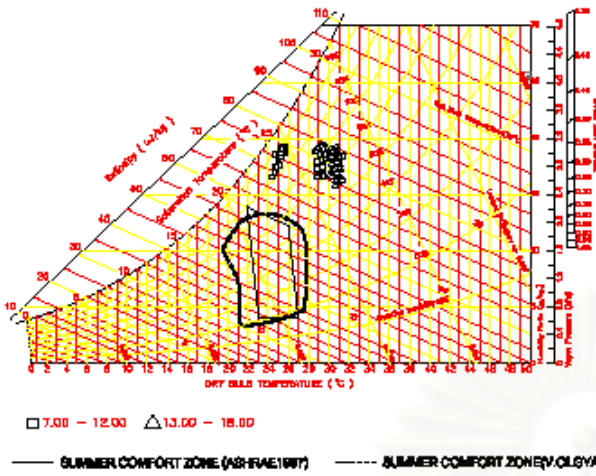
□ 7.00 - 12.00 △ 13.00 - 18.00

◇ 1.00 - 5.00 ○ 18.00 - 24.00

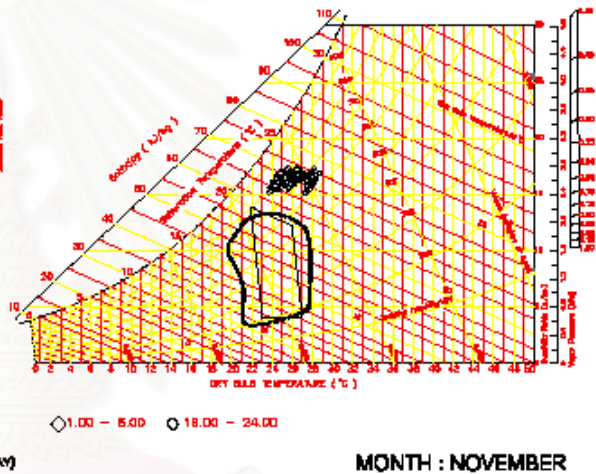
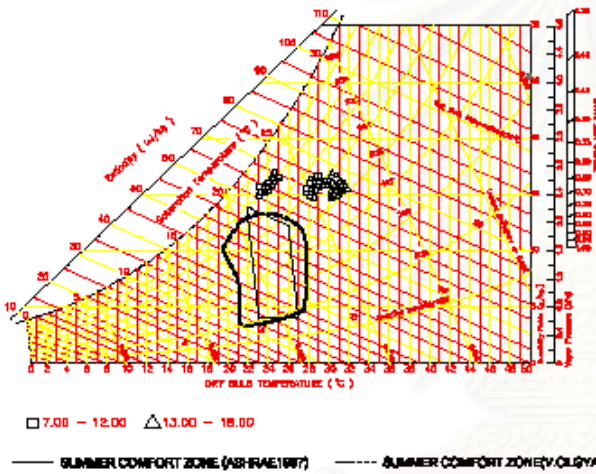
— SUMMER COMFORT ZONE (ASHRAE1987) - - - SUMMER COMFORT ZONE (V.O.L.G.Y.A.V)

MONTH : SEPTEMBER

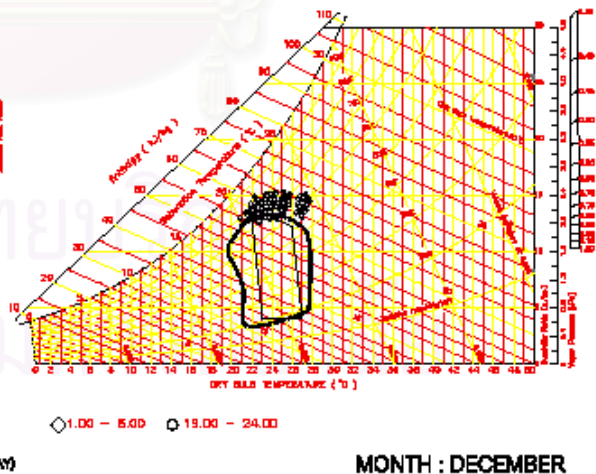
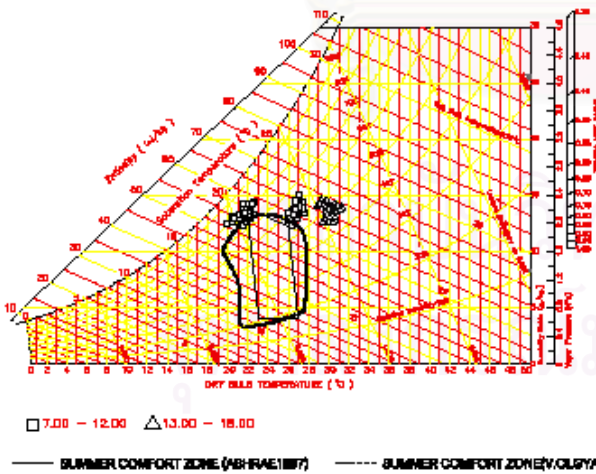
PSYCHROMETRIC CHART 1986 - 1988 (2529 - 2541) STATION : BANGKOK METROPOLIS



MONTH : OCTOBER



MONTH : NOVEMBER



MONTH : DECEMBER

ตารางแสดงผลข้อมูลจำนวนรายชั่วโมงอุณหภูมิกระเปาะแห้ง และค่าเฉลี่ยอุณหภูมิกระเปาะเปียกที่เกิดขึ้น
จำแนกตามช่วงอุณหภูมิกระเปาะแห้ง (bin data) ในแต่ละช่วงเวลา

ANNUAL BIN-HOUR WEATHER DATA							STATION : BANGKOK METROPOLIS		
Hours of occurrence of DB in each bin with MCWB in parentheses								year : 1997	
Temperature range	Observation hour group						Total Observation	MCWB	Temperature range
	01:00 to 04:00	05:00 to 08:00	09:00 to 12:00	13:00 to 16:00	17:00 to 20:00	21:00 to 24:00			
°C	Annual							°F	
	DB MCWB	DB MCWB	DB MCWB	DB MCWB	DB MCWB	DB MCWB	Total MCWB		
40.6 / 42.8								105 / 109	
37.8 / 40.0								100 / 104	
35.0 / 37.2			23 (26.5)	204 (26.2)	21 (25.6)		248 (26.1)	95 / 99	
32.2 / 34.4			458 (25.7)	818 (25.6)	240 (25.4)		1,516 (25.6)	90 / 94	
29.4 / 31.7	151 (25.8)	144 (25.8)	704 (25.1)	357 (25.0)	800 (25.2)	454 (25.4)	2,610 (25.3)	85 / 89	
26.7 / 28.9	948 (24.8)	830 (24.9)	224 (24.4)	66 (24.7)	339 (24.4)	811 (24.7)	3,218 (24.7)	80 / 84	
23.9 / 26.1	313 (23.1)	398 (23.4)	48 (22.7)	15 (24.5)	59 (23.6)	188 (23.1)	1,021 (23.4)	75 / 79	
21.1 / 23.3	46 (21.1)	78 (20.6)	3 (18.0)		1 (25.0)	7 (20.4)	135 (21.0)	70 / 74	
18.3 / 20.6	2 (18.0)	10 (17.3)					12 (17.6)	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

จุฬาลงกรณ์มหาวิทยาลัย

BIN-HOUR WEATHER DATA Hours of occurrence of DB in each bin with MCWB in parentheses														STATION : BANGKOK METROPOLIS											
Temperature range °C	Observation hour group						Total Observation	MCWB	Observation hour group						Total Observation	MCWB	Temperature range °F								
	01:00	05:00	09:00	13:00	17:00	21:00			01:00	05:00	09:00	13:00	17:00	21:00				01:00	05:00	09:00	13:00	17:00	21:00	Total Observation	MCWB
	to 04:00	to 08:00	to 12:00	to 16:00	to 20:00	to 24:00			to 04:00	to 08:00	to 12:00	to 16:00	to 20:00	to 24:00				to 04:00	to 08:00	to 12:00	to 16:00	to 20:00	to 24:00	Total Observation	MCWB
40.6 / 142.8	January						February						March						105 / 109						
37.8 / 140.0																			103 / 104						
35.0 / 137.2													16 (25.9)						10 (25.9)	95 / 99					
32.2 / 134.4	1 (24.6)						15 (24.6)						45 (26.0)						170 (25.7)	93 / 94					
29.4 / 131.7	40 (22.9)						58 (24.7)						66 (25.7)						156 (25.6)	85 / 89					
26.7 / 128.9	49 (22.7)						62 (24.9)						11 (24.6)						346 (25.1)	80 / 84					
23.9 / 126.1	80 (22.4)						48 (21.6)						4 (22.8)						44 (23.6)	75 / 79					
21.1 / 123.3	41 (19.1)						5 (20.3)						3 (22.1)						6 (21.9)	70 / 74					
18.3 / 120.6	2 (18.0)																		12 (17.6)	65 / 69					
15.6 / 117.8																				60 / 64					
12.8 / 115.0																				55 / 59					
10.0 / 112.2																				50 / 54					
7.2 / 19.4																				45 / 49					
4.4 / 16.7																				40 / 44					
1.7 / 13.9																				35 / 39					
40.6 / 142.8	April						May						June						105 / 109						
37.8 / 140.0																			103 / 104						
35.0 / 137.2	4 (26.6)						15 (26.6)						4 (26.1)						60 (25.9)	95 / 99					
32.2 / 134.4	58 (25.9)						70 (26.5)						70 (25.6)						170 (25.9)	93 / 94					
29.4 / 131.7	14 (25.8)						69 (26.3)						53 (25.6)						294 (25.7)	85 / 89					
26.7 / 128.9	60 (25.3)						48 (24.6)						59 (24.6)						170 (24.7)	80 / 84					
23.9 / 126.1	13 (23.0)						3 (24.0)						8 (23.4)						20 (23.8)	75 / 79					
21.1 / 123.3							1 (25.0)												1 (25.0)	70 / 74					
18.3 / 120.6																				65 / 69					
15.6 / 117.8																				60 / 64					
12.8 / 115.0																				55 / 59					
10.0 / 112.2																				50 / 54					
7.2 / 19.4																				45 / 49					
4.4 / 16.7																				40 / 44					
1.7 / 13.9																				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 : BANGKOK METROPOLIS							
Temperature range °C	Observation hour group							Total Observation	MCWB	Observation hour group							Total Observation	MCWB	Temperature range °F						
	01:00	05:00	09:00	13:00	17:00	21:00	01:00			05:00	09:00	13:00	17:00	21:00	01:00	05:00				09:00	13:00	17:00	21:00		
	to 04:00	to 08:00	to 12:00	to 16:00	to 20:00	to 24:00	to 04:00			to 08:00	to 12:00	to 16:00	to 20:00	to 24:00	to 04:00	to 08:00				to 12:00	to 16:00	to 20:00	to 24:00		
°C	July							August							September							°F			
40.5 / 42.5																									105 / 109
37.5 / 40.0																									100 / 104
35.0 / 37.2							5 (25.5)										1 (26.2)							1 (27.0)	95 / 99
32.2 / 34.4							105 (25.8)										112 (25.8)							95 (26.2)	90 / 94
29.4 / 31.7							281 (25.1)										248 (25.3)							195 (25.6)	85 / 89
26.7 / 28.9							341 (25.0)										340 (25.2)							205 (25.1)	80 / 84
23.9 / 26.1							11 (24.4)										36 (24.5)							145 (24.2)	75 / 79
21.1 / 23.3																	49 (24.3)							52 (24.4)	70 / 74
18.3 / 20.6																	1 (24.2)							7 (24.4)	65 / 69
15.5 / 17.8																	7 (24.1)							24 (24.1)	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	October							November							December							°F			
40.5 / 42.5																									105 / 109
37.5 / 40.0																									100 / 104
35.0 / 37.2							3 (26.6)										10 (25.9)							6 (25.0)	95 / 99
32.2 / 34.4							125 (26.6)										116 (25.9)							140 (24.9)	90 / 94
29.4 / 31.7							184 (26.1)										196 (26.8)							162 (24.0)	85 / 89
26.7 / 28.9							314 (25.2)										275 (24.0)							262 (23.6)	80 / 84
23.9 / 26.1							118 (24.9)										107 (21.8)							122 (21.4)	75 / 79
21.1 / 23.3																	7 (21.4)							9 (20.4)	70 / 74
18.3 / 20.6																	1 (20.7)							8 (20.0)	65 / 69
15.5 / 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



ตารางแสดงผลข้อมูลปริมาณองศาชั่วโมง การทำความร้อนและการทำความเย็น (degree hours and hours of occurrence)

DEGREE HOURS & HOURS OF OCCURRENCE									Station :BANGKOK METROPOLIS		
									YEARS : 1981 - 1998 (2524-2541)		
TEMPERATURE		MEAN TEMP.DEGREE (°F)	NO. OF HOURS BELOW TEMPERATURE	NO. OF DEGREE HOURS OF HEATING BELOW TEMPERATURE		NO. OF HOURS ABOVE TEMPERATURE	NO. OF DEGREE HOURS OF COOLING ABOVE TEMPERATURE				
°F	°C	HOURS OF OCCURRENCE		°F	°C		°F	°C			
35	1.7	(37.5)	-	-	-	8,784.00	425,809.80	236,324.44			
36	2.2		-	-	-	8,784.00	417,025.80	231,449.32			
37	2.8	0	-	-	-	8,784.00	408,241.80	226,574.20			
38	3.3		-	-	-	8,784.00	399,457.80	221,699.08			
39	3.9		-	-	-	8,784.00	390,673.80	216,823.96			
40	4.4	(42.5)	-	-	-	8,784.00	381,889.80	211,948.84			
41	5.0		-	-	-	8,784.00	373,105.80	207,073.72			
42	5.6	0	-	-	-	8,784.00	364,321.80	202,198.60			
43	6.1		-	-	-	8,784.00	355,537.80	197,323.48			
44	6.7		-	-	-	8,784.00	346,753.80	192,448.36			
45	7.2	(47.5)	-	-	-	8,784.00	337,969.80	187,573.24			
46	7.8		-	-	-	8,784.00	329,185.80	182,698.12			
47	8.3	0	-	-	-	8,784.00	320,401.80	177,823.00			
48	8.9		-	-	-	8,784.00	311,617.80	172,947.88			
49	9.4		-	-	-	8,784.00	302,833.80	168,072.76			
50	10.0	52.5	-	-	-	8,784.00	294,049.80	163,197.64			
51	10.6		-	-	-	8,784.00	285,265.80	158,322.52			
52	11.1	0	-	-	-	8,784.00	276,481.80	153,447.40			
53	11.7		-	-	-	8,784.00	267,697.80	148,572.28			
54	12.2		-	-	-	8,784.00	258,913.80	143,697.16			
55	12.8	(57.5)	-	-	-	8,784.00	250,129.80	138,822.04			
56	13.3		-	-	-	8,784.00	241,345.80	133,946.92			
57	13.9	0	-	-	-	8,784.00	232,561.80	129,071.80			
58	14.4		-	-	-	8,784.00	223,777.80	124,196.68			
59	15.0		-	-	-	8,784.00	214,993.80	119,321.56			
60	15.6	(62.5)	-	-	-	8,784.00	206,209.80	114,446.44			
61	16.1		-	-	-	8,784.00	197,425.80	109,571.32			
62	16.7	0	-	-	-	8,784.00	188,641.80	104,696.20			
63	17.2		-	-	-	8,784.00	179,857.80	99,821.08			
64	17.8		-	-	-	8,784.00	171,073.80	94,945.96			
65	18.3	(67.5)	3.00	-	-	8,784.00	162,289.80	90,070.84			
66	18.9		6.00	7.50	4.16	8,781.00	153,513.30	85,199.88			
67	19.4	15	9.00	16.00	8.33	8,778.00	144,736.80	80,328.92			
68	20.0		12.00	22.50	12.49	8,775.00	135,960.30	75,457.97			
69	20.6		15.00	30.00	16.85	8,772.00	127,183.80	70,587.01			

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

DEGREE HOURS & HOURS OF OCCURRENCE					Station :BANGKOK METROPOLIS			
YEARS : 1981 - 1998 (2524-2541)								
TEMPERATURE		MEAN TEMP.DEGREE (°F)	NO. OF HOURS BELOW TEMPERATURE	NO. OF DEGREE HOURS OF HEATING BELOW TEMPERATURE		NO. OF HOURS ABOVE TEMPERATURE	NO. OF DEGREE HOURS OF COOLING ABOVE TEMPERATURE	
Degree		HOURS OF OCCURRENCE		°F	°C		°F	°C
°F	°C							
70	21.1	(72.5)	96.60	37.50	20.81	8,769.00	118,407.30	65,718.05
71	21.7		178.20	266.50	142.36	8,687.40	109,842.30	60,962.48
72	22.2	408	259.80	475.50	283.90	8,605.80	101,277.30	58,208.90
73	22.8		341.40	694.50	386.45	8,524.20	92,712.30	51,455.33
74	23.3		423.00	913.50	506.99	8,442.60	84,147.30	48,701.75
75	23.9	(77.5)	756.00	1,132.50	628.54	8,361.00	76,582.30	41,948.18
76	24.4		1,089.00	2,388.00	1,325.34	8,028.00	68,053.80	37,769.86
77	25.0	1665	1,422.00	3,643.50	2,022.14	7,695.00	60,525.30	33,591.54
78	25.6		1,755.00	4,899.00	2,718.95	7,362.00	52,996.80	29,413.22
79	26.1		2,088.00	6,154.50	3,415.75	7,029.00	45,488.30	25,234.91
80	26.7	(82.5)	2,765.40	7,410.00	4,112.55	6,696.00	37,939.80	21,056.59
81	27.2		3,442.80	11,191.50	6,211.28	6,018.60	32,937.30	18,280.20
82	27.8	3387	4,120.20	14,973.00	8,310.02	5,341.20	27,934.80	15,503.81
83	28.3		4,797.60	18,754.50	10,408.75	4,663.80	22,932.30	12,727.43
84	28.9		5,475.00	22,536.00	12,507.48	3,986.40	17,929.80	9,951.04
85	29.4	(87.5)	5,953.20	26,317.50	14,806.21	3,309.00	12,927.30	7,174.65
86	30.0		6,431.40	32,988.00	18,308.34	2,830.80	10,813.80	6,001.66
87	30.6	2391	6,909.60	39,858.50	22,010.47	2,352.60	8,700.30	4,828.67
88	31.1		7,387.80	46,329.00	25,712.80	1,874.40	6,588.80	3,655.67
89	31.7		7,866.00	52,999.50	29,414.72	1,396.20	4,473.30	2,482.68
90	32.2	(92.5)	8,047.20	59,670.00	33,116.85	918.00	2,359.80	1,309.69
91	32.8		8,228.40	67,969.00	37,733.90	736.80	1,894.80	1,051.61
92	33.3	906	8,409.60	76,308.00	42,350.94	555.60	1,429.80	793.54
93	33.9		8,590.80	84,827.00	46,967.99	374.40	964.80	535.46
94	34.4		8,772.00	92,946.00	51,585.03	193.20	499.80	277.39
95	35.0	(97.5)	8,774.40	101,265.00	56,202.08	12.00	34.80	19.31
96	35.6		8,776.80	110,043.00	61,073.87	9.60	28.40	14.85
97	36.1	12	8,779.20	118,821.00	65,945.66	7.20	18.00	9.99
98	36.7		8,781.60	127,599.00	70,817.45	4.80	9.60	5.33
99	37.2		8,784.00	136,377.00	75,689.24	2.40	1.20	0.67

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