

ข้อมูลอากาศประเทศไทยสำหรับงานอนุรักษ์พลังงาน
จังหวัดนครสวรรค์



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เล่ม

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ตารางสรุปผลของข้อมูลทุกประเภทจังหวัดนครสวรรค์

CLIMATOLOGICAL DATA FOR THE PERIOD 1981-1998

station : NAKHON SAWAN

Elevation of station above MSL

34 Meters

Latitude: 15 48 N

Longitude: 100 10 E

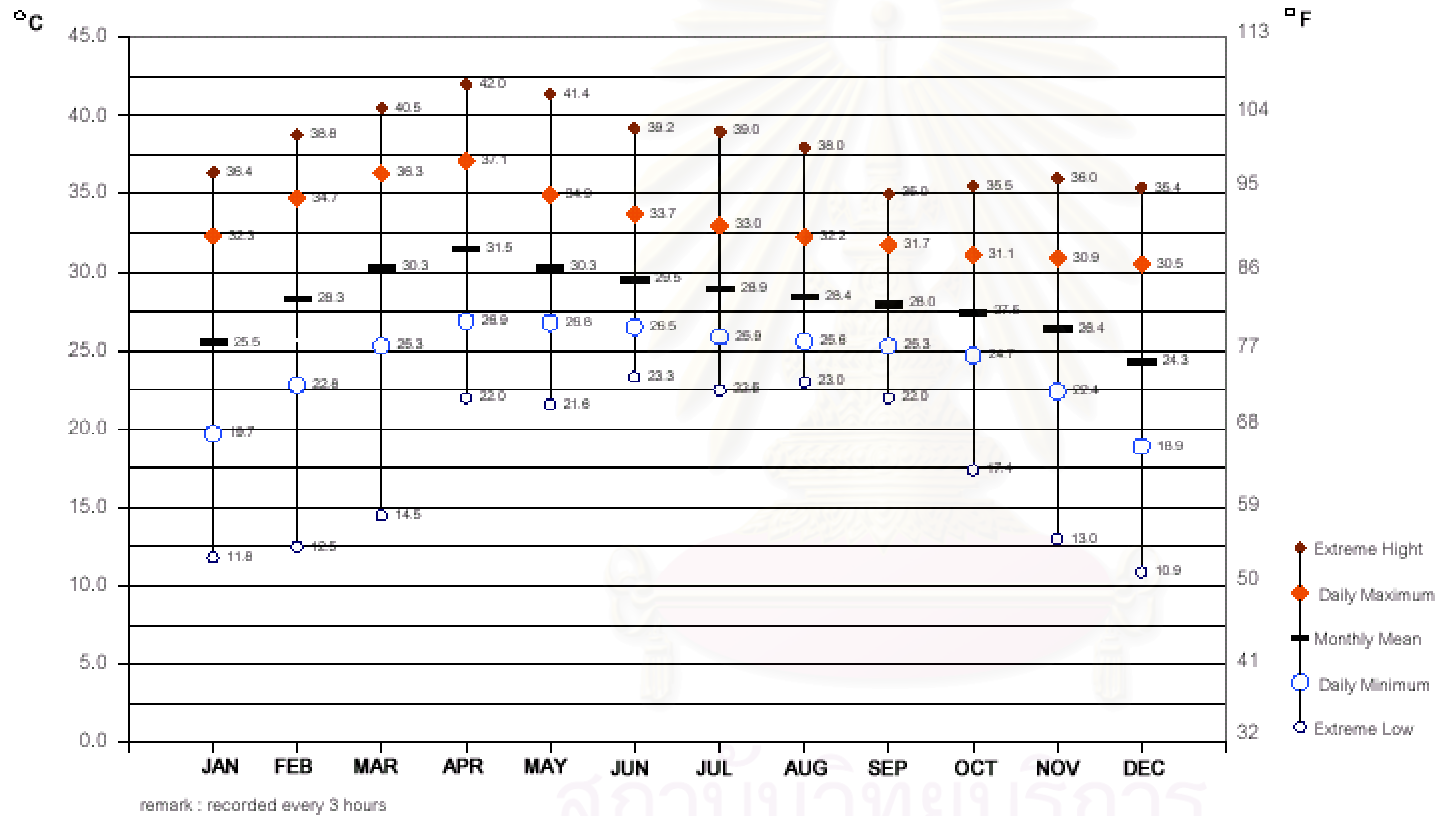
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
TEMPERATURE (°C)													
Averages													
Daily Maximum	32.3	34.7	36.3	37.1	34.9	33.7	33.0	32.2	31.7	31.1	30.9	30.5	33.2
Monthly Mean	25.5	28.3	30.3	31.5	30.3	29.5	28.9	28.4	28.0	27.5	26.4	24.3	28.2
Daily Minimum	19.7	22.8	25.3	26.9	26.8	26.5	25.9	25.6	25.3	24.7	22.4	18.9	24.2
Dry bulb Standard Deviation	5.1	4.6	4.4	4.2	3.8	3.2	3.2	2.9	2.8	2.9	3.7	4.9	3.8
Extremes													
Highest	36.4	38.8	40.5	42.0	41.4	39.2	39.0	38.0	35.0	35.5	36.0	35.4	42.0
Lowest	11.8	12.5	14.5	22.0	21.6	23.3	22.5	23.0	22.0	17.4	13.0	10.9	10.9
Monthly Dew Point	17.2	18.7	20.5	22.3	23.6	23.4	23.4	23.8	24.4	23.8	21.2	17.3	21.6
Dew Point Standard Deviation	3.3	3.6	3.2	2.2	1.5	1.4	1.4	1.2	1.0	1.7	2.6	3.0	2.2
Monthly Wet bulb Temperature	20.3	22.2	23.8	25.2	25.7	25.3	25.1	25.2	25.5	24.9	22.9	19.9	23.8
DEGREE DAY BASE 18.3°C													
Heating	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cooling	221.5	288.4	370.0	393.9	369.9	334.5	327.9	310.9	290.0	285.2	241.5	185.2	3,618.9
RELATIVE HUMIDITY (%)													
Averages													
Monthly Mean	63.1	59.6	59.6	61.4	70.2	71.7	73.9	77.9	82.0	81.3	75.3	67.7	70.3
Hour 01:00-06:00	77.9	73.1	73.0	74.8	81.9	82.1	83.6	86.8	91.7	92.0	89.0	82.9	82.4
Hour 07:00-12:00	71.2	73.2	73.3	72.4	76.4	76.2	78.4	81.5	85.4	84.0	78.5	73.3	77.0
Hour 13:00-18:00	41.4	38.8	39.4	42.4	53.2	56.0	58.5	63.0	66.8	65.4	55.9	45.5	52.2
Hour 19:00-24:00	62.1	53.4	52.7	56.0	69.4	72.8	75.2	80.1	84.3	84.0	77.8	69.1	69.7
WIND													
Average Speed (m/s)	0.9	2.0	2.8	2.5	1.7	1.8	1.5	1.3	0.7	0.7	0.7	0.8	1.5
Prevailing wind	E	S	S	S	S	S	S	S	S	NE	NE	NE	S
Maximum Speed (m/s)	9.3	12.9	11.8	13.9	11.3	10.3	10.3	10.3	7.7	8.7	7.7	7.2	13.9
SKY COVER (0-10)													
Average Sky Condition	2.5	2.8	3.2	4.1	6.4	7.7	8.1	8.5	7.8	6.3	4.1	2.6	5.3
Percentage of Sky cover													
Clear sky (0-3)	73	70	63	52	23	9	7	4	8	25	53	74	38
Partly Cloudy sky (4-7)	19	18	22	25	31	26	21	17	25	29	23	14	23
Cloudy sky (8-10)	9	12	14	23	46	65	72	79	66	45	24	12	39
SUNSHINE DURATION* (hours)													
Average Monthly total	259.3	260.0	269.9	275.2	250.0	192.5	168.6	159.8	170.2	211.2	224.8	238.9	2,680.4
Percentage of Sunshine	69.7	74.7	72.6	76.4	67.2	53.5	45.3	42.9	47.3	56.8	62.4	64.2	60.9
SOLAR RADIATION* (W/m²)													
Average Hourly max	622.8	671.3	711.0	754.4	786.7	803.5	772.8	783.0	732.6	721.9	600.0	673.8	719.5
Average Hourly mean	264.7	308.3	320.9	342.2	355.5	381.0	348.8	332.8	301.2	299.8	245.5	285.2	315.3
Average Daily Total	3,970.3	4,623.8	4,813.4	5,133.2	5,333.1	5,714.6	5,232.3	4,992.4	4,517.4	4,497.7	4,091.7	4,277.8	4,766.5
RAINFALL (mm)													
Average Monthly total	3.2	7.9	32.1	70.0	167.9	146.9	146.5	209.6	237.7	144.1	28.3	2.8	1,197.0
Daily record high	44.8	39.3	112.3	200.6	89.7	99.5	81.0	105.5	89.2	70.2	41.3	14.4	200.6
Average Number of rainy days (0.1 mm. Or more)	1	1	3	5	14	15	17	19	19	13	4	1	112
EVAPORATION (mm)													
Average Monthly total	140.9	181.1	234.9	238.5	203.8	177.9	166.2	148.4	129.6	120.5	120.3	127.9	1,990.0

ตารางแสดงผลข้อมูลอุณหภูมิกระเปาะแห้ง (dry bulb temperatures)

DRY BULB TEMPERATURES (°C) 1981 - 1998 (2524 - 2541)														Station : MAKHON SAWAN																												
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	18.8	24.6	31.5	20.9	26.6	33.4	24.5	29.1	34.8	25.7	31.0	37.1	27.3	31.6	36.5	26.7	29.7	34.5	26.2	29.3	33.3	25.9	28.7	32.5	25.3	28.1	32.3	25.5	28.0	31.2	23.1	26.8	30.9	20.8	25.1	30.0	24.2	28.2	33.2			
2	18.9	24.9	31.8	21.4	26.8	33.1	24.4	28.7	34.7	26.5	31.6	37.7	27.4	32.0	37.5	26.4	29.8	34.0	26.4	29.3	33.6	25.9	28.7	32.6	25.4	28.2	32.0	25.4	28.0	31.5	23.4	26.7	30.6	19.8	24.5	29.8	24.3	28.3	33.2			
3	19.6	25.3	32.0	21.2	27.0	33.5	24.1	28.9	34.9	26.8	31.6	37.9	27.8	31.8	36.8	26.7	29.7	34.2	26.2	29.3	33.8	25.6	28.7	33.4	25.2	27.9	31.9	25.2	27.8	31.1	23.1	26.6	30.3	19.9	24.6	30.3	24.3	28.3	33.3			
4	19.4	25.2	32.3	21.6	27.0	33.3	23.9	29.1	34.9	26.6	31.3	37.3	27.4	31.5	37.3	26.4	29.8	34.4	26.4	29.2	33.1	25.5	28.4	32.4	25.3	28.1	32.1	25.1	27.7	30.8	23.1	26.5	30.6	19.6	24.7	30.4	24.2	28.2	33.2			
5	19.8	25.2	32.2	21.6	27.4	33.9	24.5	29.2	34.8	27.0	31.3	36.8	27.3	30.7	35.3	26.6	29.7	34.0	26.1	28.7	32.5	25.9	28.5	32.1	25.3	28.2	32.0	24.9	27.5	30.7	22.8	26.5	31.1	19.9	24.9	30.5	24.3	28.1	33.0			
6	19.4	25.2	32.2	21.6	27.4	34.2	24.5	29.0	35.0	26.4	31.3	36.9	27.1	30.9	36.1	26.6	29.2	33.2	25.8	28.8	32.7	25.6	28.7	32.7	25.3	28.2	32.5	25.1	28.0	31.6	22.9	26.7	31.1	19.5	24.8	30.5	24.2	28.2	33.2			
7	19.8	25.2	31.9	21.3	27.1	33.7	24.2	29.2	35.1	26.3	31.6	37.9	26.8	30.2	35.4	26.4	29.1	32.9	25.7	29.0	33.7	25.8	28.3	32.1	25.3	27.8	31.3	25.0	27.9	31.7	22.9	27.0	32.0	19.2	24.5	30.4	24.1	28.1	33.2			
8	18.9	24.9	32.0	21.1	27.1	34.0	24.8	29.6	35.3	26.8	31.6	36.8	26.6	30.3	35.2	26.2	29.0	32.8	25.9	29.0	33.7	25.6	28.6	32.7	25.0	27.7	31.5	25.3	28.0	31.6	23.5	27.1	31.6	18.8	24.1	30.1	24.1	28.1	33.1			
9	18.5	24.6	32.0	21.9	27.4	34.2	24.5	29.4	35.5	26.7	31.7	37.7	27.1	30.6	35.3	26.2	28.9	33.1	25.8	29.1	33.4	25.8	28.6	32.4	25.3	27.8	31.4	25.0	27.7	31.2	23.4	26.7	30.6	18.6	24.0	30.1	24.1	28.1	33.1			
10	18.7	24.9	32.2	21.9	27.5	33.8	24.5	29.7	35.7	27.0	32.0	38.3	26.6	30.2	34.4	26.2	29.1	33.1	26.0	29.1	33.3	26.0	28.3	32.1	25.2	27.9	31.7	25.5	27.8	30.9	23.0	26.3	30.3	19.0	24.2	30.2	24.1	28.1	33.0			
11	19.0	25.1	32.3	22.2	27.8	34.5	24.9	30.1	36.8	27.0	32.3	38.4	27.0	30.6	35.7	26.4	29.3	33.6	25.8	28.7	32.5	25.7	28.2	31.5	25.0	27.9	31.5	24.9	27.5	31.0	22.2	26.2	30.7	19.2	24.3	30.3	24.1	28.2	33.2			
12	19.0	25.2	32.2	22.8	28.1	34.4	25.5	30.4	36.6	27.4	31.8	37.0	26.9	30.3	35.0	26.5	29.4	33.3	25.8	28.9	33.3	25.9	28.4	32.1	24.9	28.0	32.0	24.7	27.7	31.1	22.0	26.3	31.0	19.3	24.7	31.0	24.2	28.3	33.2			
13	19.7	25.6	32.4	23.1	28.5	35.1	25.6	30.6	36.8	26.5	31.2	36.9	26.9	30.2	34.5	26.5	29.5	33.3	25.9	28.8	32.4	25.5	28.4	32.5	25.3	28.2	32.1	24.9	27.6	31.0	23.0	26.6	30.8	18.8	24.5	31.0	24.3	28.3	33.2			
14	20.0	25.5	32.4	23.5	28.9	35.6	25.8	30.3	36.2	26.3	31.2	36.4	26.6	29.9	34.1	26.6	29.6	33.9	26.1	28.8	32.8	25.8	28.6	32.7	25.2	28.1	31.6	25.0	27.9	31.2	22.9	26.4	30.7	19.1	24.7	31.0	24.4	28.3	33.2			
15	19.4	25.2	32.1	23.2	28.8	35.5	25.3	30.4	36.7	26.7	31.2	36.9	26.5	30.0	34.9	26.3	29.6	34.0	26.0	28.7	32.5	25.9	28.6	32.3	25.1	28.1	32.1	25.2	27.7	31.3	22.8	26.5	30.9	18.7	24.7	30.4	24.3	28.3	33.3			
16	18.8	25.2	32.5	23.2	28.9	35.5	25.6	30.8	37.2	26.6	31.2	36.3	26.5	30.0	34.3	26.7	29.9	34.4	25.9	29.1	33.5	25.7	28.6	32.6	25.5	28.1	31.6	24.9	27.9	31.8	23.0	26.8	31.2	19.6	24.7	30.7	24.3	28.4	33.5			
17	19.8	25.5	32.4	23.4	29.0	35.6	25.5	31.0	37.6	26.8	31.3	36.9	26.7	30.3	35.0	26.9	29.8	33.9	26.0	29.2	33.8	25.7	28.5	32.0	25.4	28.0	31.4	25.1	27.4	30.9	22.9	26.7	30.7	18.8	24.4	30.9	24.4	28.4	33.4			
18	19.3	25.5	32.7	23.8	29.0	35.2	25.7	31.0	37.4	26.8	31.4	37.0	27.0	30.1	34.5	26.6	29.7	34.1	25.8	29.0	33.0	25.6	28.3	31.5	25.3	28.0	31.8	24.9	27.4	30.9	22.7	26.7	31.4	18.9	24.4	30.7	24.4	28.4	33.3			
19	19.5	25.6	32.7	23.2	28.7	35.3	25.9	31.1	37.5	27.5	31.7	37.3	26.8	29.8	33.9	26.5	29.4	33.8	26.0	29.0	33.3	25.6	28.1	31.8	25.4	28.1	31.3	24.6	27.3	30.9	22.2	26.6	31.5	18.9	24.4	30.8	24.3	28.3	33.3			
20	19.6	25.6	32.6	22.7	28.4	35.0	25.9	31.2	37.8	27.4	31.7	36.9	26.5	29.8	33.8	26.3	29.5	33.9	25.9	29.2	33.3	25.5	28.0	32.0	25.1	27.9	31.6	24.8	27.7	31.3	22.1	26.5	31.7	18.9	24.4	30.8	24.2	28.3	33.4			
21	20.4	26.0	32.8	23.5	28.8	35.0	26.0	31.1	37.3	27.4	31.7	37.1	26.8	30.2	34.9	26.2	29.6	33.9	25.8	28.9	33.2	25.5	28.1	31.9	25.3	28.0	32.3	24.7	27.6	31.8	21.9	26.1	30.7	18.8	24.5	31.1	24.3	28.4	33.5			
22	20.0	26.0	32.8	23.1	29.0	35.6	25.6	30.9	37.3	27.0	31.2	37.0	26.9	30.4	35.5	26.4	30.0	34.8	25.9	28.9	32.9	25.6	28.7	33.1	25.3	28.0	31.5	24.3	27.6	31.5	21.8	26.1	30.9	18.7	24.2	30.6	24.2	28.4	33.6			
23	20.9	26.1	32.7	23.6	29.1	35.5	25.9	30.9	36.6	26.7	31.5	37.3	26.7	30.2	35.1	26.9	29.8	33.7	25.7	28.7	32.6	25.7	28.4	32.0	25.2	27.8	31.5	24.8	27.5	31.0	21.7	26.1	31.1	18.1	23.9	30.6	24.3	28.3	33.3			
24	21.0	26.2	32.4	23.7	29.1	35.5	25.7	30.8	36.9	27.2	31.8	37.7	27.0	30.2	34.8	26.5	29.6	34.0	25.9	28.6	32.4	25.4	27.9	32.1	25.4	27.7	31.0	24.3	27.4	31.3	21.3	25.9	31.0	17.9	23.4	30.2	24.3	28.2	33.3			
25	21.0	26.1	32.3	24.3	29.6	35.7	26.1	31.0	36.6	27.7	31.6	36.1	26.9	30.0	34.2	26.9	29.7	33.9	25.6	28.6	32.6	25.4	28.0	31.8	25.3	28.2	32.1	24.1	27.1	30.6	21.4	25.9	31.1	17.1	23.2	30.2	24.3	28.2	33.1			
26	21.3	26.0	32.2	24.4	29.3	35.2	26.1	30.8	36.6	26.9	31.1	36.1	26.6	29.7	33.8	26.6	29.4	33.1	25.8	28.7	32.8	25.3	28.0	31.7	25.5	28.1	31.8	23.9	27.2	30.9	21.7	26.0	30.8	17.2	23.5	30.6	24.3	28.2	33.0			
27	21.0	25.9	31.5	24.2	29.2	35.4	26.2	30.6	36.2	27.1	31.3	36.5	26.4	29.6	33.3	26.6	29.2	33.1	25.8	29.0	33.2	25.3	28.2	32.3	25.3	28.0	31.5	23.7	26.9	30.9	22.0	26.1	30.8	18.4	24.0	30.5	24.3	28.2	32.9			
28	19.9	25.7	32.3	24.6	29.5	35.6	25.8	30.6	36.4	26.9	31.1	37.2	26.6	29.3	32.9	26.1	28.9	32.5	25.9	29.1	33.1	25.5	28.4	32.5	25.4	28.2	31.7	23.3	26.9	30.9	21.7	25.9	30.4	18.4	24.2	30.8	24.2	28.1	33.0			
29	19.8	25.7	32.4	24.4	29.1	35.1	26.1	30.8	36.7	27.1	31.3	36.7	26.3	29.4	33.9	25.9	29.3	33.5	25.8	28.8	32.8	25.7	28.3	31.7	25.1	27.9	31.8	23.9	27.0	30.9	21.7	25.6	30.6	17.9	23.8	30.4	24.1	28.1	33.1			
30	20.1	26.1	33.1				26.5	31.2	37.0	27.0	31.2	36.7	26.5	29.3	33.9	26.2	29.2	33.1	26.0	28.5	32.2	25.6	27.9	31.6	25.3	27.9	31.3	23.6	27.1	31.2	20.8	25.5	30.9	18.0	24.0	31.0	24.2	28.0	32.9			
31	19.9	26.2	33.4				26.0	31.0	36.9				26.4	29.4	33.3				26.0	28.3	31.6				25.5	28.0	31.7				23.5	26.8	30.7				18.0	24.0	30.9	23.6	27.7	32.6
Average	19.7	25.5	32.3	22.8	28.3	34.7	25.3	30.3	36.3	26.9	31.5	37.1	26.8	30.3	34.9	26.5	29.5	33.7	25.9	28.9	33.0	25.6	28.4	32.2	25.3	28.0	31.7	24.7	27.5	31.1	22.4	26.4	30.9	18.9	24.3	30.5	24.2	28.2	33.2			
Extremes	11.8	36.4		12.5	38.8		14.5	40.5		22.0	42.0		21.6	41.4		23.3	39.2		22.5	39.0		23.0	38.0		22.0	35.0		17.4	35.5</													

แผนภูมิอุณหภูมิกระเปาะแห้ง (dry bulb temperatures)

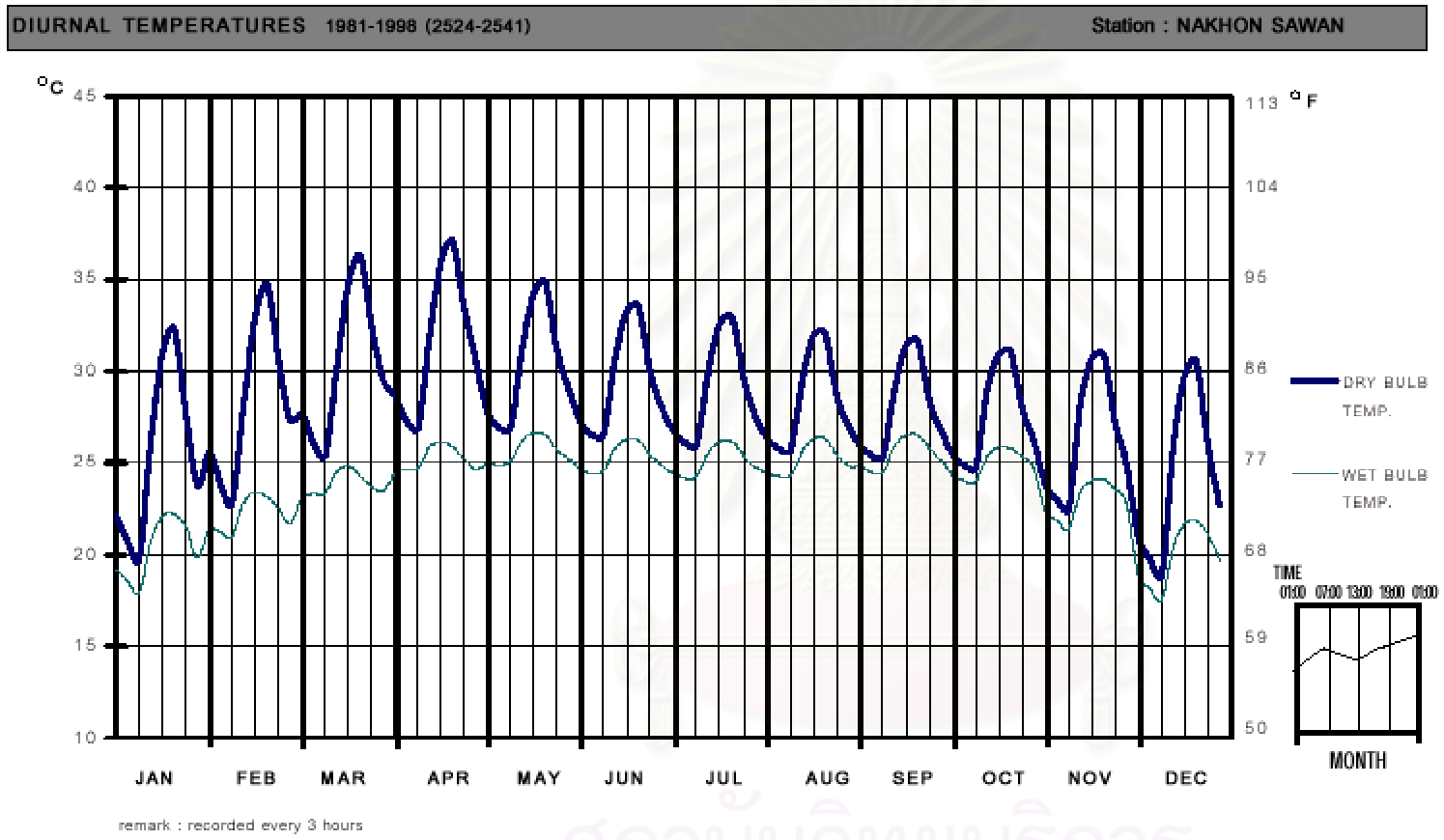
DRY BULB TEMPERATURES (°C) 1981 - 1998 (2524 - 2541) Station : NOKHON SAWAN



ตารางแสดงผลข้อมูลอุณหภูมิกระเปาะเปียก (wet bulb temperatures)

WET BULB TEMPERATURES (°C) 1981 - 1998 (2524 - 2541)														Station : NAKHON SAWAN																									
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	17.6	20.1	22.2	19.0	20.7	22.4	22.2	23.0	23.7	23.6	24.5	25.3	24.9	25.6	26.5	25.0	25.7	26.8	24.2	25.1	26.1	24.0	25.0	26.0	24.4	25.4	26.6	24.7	25.6	26.4	22.2	23.6	24.6	19.3	21.0	22.3	22.6	23.8	24.9
2	17.7	20.2	22.3	18.9	20.7	22.3	21.5	22.4	23.2	24.2	25.1	26.0	24.9	25.6	26.6	24.8	25.8	27.0	24.1	25.1	26.3	24.2	25.1	26.2	24.4	25.4	26.6	24.6	25.5	26.6	22.6	23.7	24.7	18.6	20.6	22.2	22.5	23.8	25.0
3	18.4	20.7	22.7	18.9	20.8	22.4	21.2	22.3	23.4	24.1	25.1	26.0	25.0	25.7	26.7	24.8	25.8	27.0	24.3	25.2	26.3	24.2	25.2	26.5	24.4	25.3	26.5	24.5	25.4	26.5	22.3	23.5	24.4	18.7	20.7	22.5	22.6	23.8	25.1
4	18.2	20.7	22.8	19.6	21.4	23.2	21.1	22.4	23.7	24.2	24.9	25.7	24.8	25.6	26.6	25.0	25.8	27.0	24.3	25.1	26.3	24.4	25.2	26.3	24.3	25.3	26.6	24.4	25.3	26.3	22.4	23.5	24.6	18.6	20.7	22.5	22.6	23.8	25.1
5	18.2	20.5	22.8	20.0	21.6	23.1	21.5	22.5	23.6	24.0	24.9	26.0	24.7	25.3	26.2	24.9	25.8	27.1	24.1	25.0	26.1	24.2	25.1	26.2	24.4	25.2	26.4	24.2	25.1	26.0	22.0	23.4	24.5	18.8	20.9	22.6	22.6	23.8	25.0
6	17.8	20.3	22.5	20.2	21.6	23.1	21.8	22.7	23.5	24.4	25.1	26.0	24.6	25.5	26.6	24.8	25.6	26.8	23.9	25.0	26.1	24.0	25.1	26.3	24.4	25.4	26.8	24.2	25.2	26.1	22.2	23.5	24.8	18.4	20.7	22.4	22.6	23.8	25.1
7	18.1	20.1	21.9	19.4	21.1	22.5	22.3	23.1	24.0	24.1	25.0	25.9	24.5	25.3	26.1	24.7	25.5	26.6	24.1	25.2	26.2	24.1	25.1	26.4	24.4	25.2	26.3	24.2	25.2	26.2	22.3	23.8	25.1	18.0	20.2	21.9	22.5	23.7	24.9
8	17.5	19.9	22.1	19.2	21.0	22.6	22.7	23.3	24.2	24.4	25.1	26.0	24.7	25.5	26.3	24.6	25.4	26.5	24.2	25.2	26.4	24.2	25.1	26.2	24.1	25.2	26.4	24.5	25.5	26.6	22.5	23.8	24.8	17.6	19.8	21.5	22.5	23.7	25.0
9	17.0	19.6	21.9	19.7	21.2	22.8	22.6	23.4	24.4	24.1	24.8	25.8	25.0	25.6	26.5	24.4	25.4	26.7	23.9	25.0	26.2	24.2	25.1	26.3	24.5	25.3	26.3	24.4	25.4	26.4	22.2	23.4	24.2	17.4	19.8	21.6	22.4	23.7	24.9
10	17.1	19.8	22.2	20.3	21.5	22.9	22.7	23.6	24.5	24.2	25.0	26.0	24.6	25.5	26.5	24.5	25.4	26.5	24.1	25.0	26.3	24.6	25.3	26.3	24.4	25.3	26.6	24.8	25.5	26.2	21.7	22.9	23.9	17.6	20.0	21.9	22.5	23.7	25.0
11	17.6	20.1	22.3	20.5	21.7	23.1	22.9	23.8	24.7	24.5	25.1	26.1	24.6	25.6	26.7	24.6	25.4	26.3	24.1	25.0	26.1	24.3	25.2	26.4	24.3	25.3	26.5	24.2	25.1	26.0	21.2	22.7	23.9	17.9	20.2	22.2	22.6	23.8	25.0
12	17.6	20.2	22.6	20.5	21.9	23.1	23.1	24.1	25.0	24.3	25.1	26.1	24.8	25.7	26.9	24.4	25.2	26.1	24.2	25.1	26.4	24.1	25.1	26.3	24.2	25.4	26.7	24.0	25.1	26.1	21.2	23.0	24.4	18.2	20.4	22.6	22.6	23.9	25.2
13	18.2	20.5	22.5	21.2	22.4	23.8	23.5	24.3	25.2	23.9	24.9	25.9	24.9	25.8	26.7	24.3	25.3	26.4	24.3	25.1	26.2	24.1	25.2	26.4	24.6	25.7	26.9	24.2	25.2	26.1	22.0	23.3	24.5	17.7	20.3	22.4	22.7	24.0	25.3
14	18.3	20.3	22.2	22.0	22.8	23.8	23.5	24.3	25.4	24.1	24.8	25.8	24.9	25.7	26.7	24.6	25.4	26.3	24.3	25.1	26.0	24.1	25.2	26.5	24.6	25.6	26.7	24.1	25.3	26.3	22.1	23.4	24.5	17.8	20.4	22.4	22.9	24.0	25.2
15	17.8	20.1	22.1	21.5	22.6	24.1	23.2	24.2	25.2	24.5	25.2	26.2	24.7	25.7	26.9	24.4	25.3	26.2	24.3	25.1	26.1	24.2	25.2	26.2	24.3	25.6	26.9	24.4	25.3	26.2	21.8	23.2	24.6	18.3	20.3	22.2	22.8	24.0	25.2
16	17.1	19.8	22.3	21.6	22.5	23.5	23.4	24.1	25.2	24.5	25.2	26.2	24.8	25.7	26.8	24.5	25.3	26.2	24.3	25.2	26.3	24.4	25.2	26.3	24.8	25.7	26.7	24.2	25.3	26.4	22.0	23.5	24.7	17.8	20.1	21.9	22.8	24.0	25.2
17	17.8	20.2	22.2	21.9	22.8	24.0	23.4	24.1	25.0	24.6	25.3	26.5	24.9	25.8	26.9	24.1	25.0	26.1	24.3	25.3	26.5	24.3	25.2	26.4	24.7	25.6	26.5	24.3	25.2	26.1	22.0	23.5	24.7	17.4	19.8	21.8	22.8	24.0	25.2
18	17.8	20.1	22.0	22.0	22.9	24.2	23.1	24.0	24.9	24.5	25.3	26.2	25.1	25.7	26.7	24.2	25.1	26.3	24.6	25.4	26.3	24.3	25.2	26.3	24.6	25.7	26.7	24.2	25.0	26.3	21.8	23.3	24.4	17.4	19.9	21.9	22.8	24.0	25.2
19	17.6	20.2	22.4	21.4	22.5	23.9	23.6	24.1	25.0	24.9	25.6	26.6	25.0	25.8	26.8	24.2	25.1	26.2	24.3	25.2	26.2	24.2	25.2	26.4	24.7	25.7	26.8	23.9	24.9	26.0	21.2	22.9	24.1	17.6	20.0	21.9	22.7	23.9	25.2
20	18.2	20.4	22.3	21.0	22.1	23.3	23.4	24.1	25.5	24.6	25.6	26.7	25.0	25.7	26.7	24.2	25.1	26.1	24.3	25.3	26.2	24.2	25.1	26.4	24.4	25.5	26.9	24.1	25.0	25.9	21.1	22.8	24.0	17.5	19.8	21.9	22.7	23.9	25.2
21	18.7	20.6	22.4	21.4	22.3	23.1	23.4	24.3	25.5	24.4	25.4	26.4	24.8	25.6	26.6	24.3	25.2	26.3	24.2	25.2	26.1	24.5	25.3	26.4	24.4	25.5	26.7	23.8	24.9	25.7	20.9	22.6	23.8	17.3	19.8	21.8	22.7	23.9	25.1
22	18.0	20.5	22.4	21.4	22.4	23.3	23.3	24.1	25.2	24.5	25.1	26.1	25.0	25.8	26.8	24.5	25.3	26.3	24.3	25.1	26.2	24.3	25.4	26.1	24.5	25.4	26.3	23.6	24.8	25.9	20.6	22.4	23.5	17.1	19.5	21.3	22.6	23.8	25.0
23	18.6	20.6	22.1	21.9	22.7	23.9	23.4	24.3	25.3	24.5	25.3	26.3	24.9	25.7	26.8	24.2	25.1	26.0	24.1	25.1	26.1	24.5	25.3	26.5	24.4	25.4	26.6	23.9	24.8	25.8	20.8	22.4	23.6	16.7	19.2	21.4	22.7	23.8	25.0
24	19.0	20.7	22.2	21.8	22.9	24.2	23.6	24.2	25.1	24.4	25.4	26.6	25.1	25.8	26.8	24.0	25.0	26.2	24.2	25.0	26.2	24.4	25.3	26.6	24.6	25.4	26.1	23.5	24.5	25.3	20.1	21.9	23.2	16.4	18.8	20.9	22.6	23.8	25.0
25	18.8	20.7	22.3	22.3	23.2	24.4	23.6	24.4	25.6	24.7	25.5	26.7	25.0	25.9	27.0	24.1	25.0	26.1	24.1	25.0	26.3	24.4	25.3	26.6	24.7	25.7	26.6	23.2	24.3	25.2	20.1	21.9	23.2	15.9	18.5	20.7	22.6	23.8	25.0
26	18.6	20.4	22.1	22.5	23.3	24.1	23.7	24.5	25.3	24.6	25.4	26.6	24.9	25.9	27.1	24.0	24.9	25.8	24.1	25.0	26.2	24.1	25.2	26.2	24.7	25.6	26.5	23.0	24.3	25.4	20.4	22.2	23.7	16.0	18.8	21.1	22.5	23.8	25.0
27	18.5	20.3	22.0	22.3	23.1	24.0	23.3	24.3	25.3	24.7	25.4	26.6	24.9	25.8	26.9	24.1	24.9	26.0	24.0	25.0	26.1	24.2	25.2	26.5	24.6	25.7	26.8	23.0	24.1	25.1	20.6	22.4	23.5	16.9	19.3	21.6	22.6	23.8	25.0
28	17.7	20.2	22.2	22.8	23.7	24.7	23.7	24.5	25.4	24.7	25.3	26.3	25.0	25.7	26.4	24.2	24.9	25.9	24.3	25.2	26.2	24.3	25.3	26.6	24.7	25.8	27.1	22.7	24.0	25.1	20.6	22.3	23.5	17.1	19.5	21.6	22.6	23.9	25.1
29	17.4	19.9	22.0	22.3	23.1	23.5	23.9	24.7	25.7	24.6	25.4	26.4	24.7	25.5	26.6	24.1	25.0	26.0	24.1	25.0	26.2	24.4	25.3	26.4	24.4	25.5	26.6	23.1	24.1	25.1	20.4	22.0	23.4	16.6	19.3	21.5	22.5	23.7	25.0
30	18.0	20.3	22.4	24.1	24.9	26.0	24.1	24.9	26.0	24.9	25.5	26.5	24.8	25.6	26.7	23.9	24.8	25.7	24.0	24.8	25.9	24.5	25.3	26.5	24.5	25.5	26.4	22.8	24.0	25.0	19.7	21.6	23.1	16.7	19.4	21.7	22.5	23.8	25.1
31	17.9	20.4	22.3	23.7	24.6	25.7	24.7	25.7	26.8	24.1	24.9	26.1	24.2	25.2	26.5	22.7	23.8	24.7	16.8	19.6	21.9	22.0	23.5	24.8	16.8	19.6	21.9	22.0	23.5	24.8	16.8	19.6	21.9	22.0	23.5	24.8			
Average	18.0	20.3	22.3	20.9	22.2	23.4	23.0	23.8	24.8	24.4	25.2	26.2	24.8	25.7	26.7	24.4	25.3	26.3	24.2	25.1	26.2	24.3	25.2	26.4	24.5	25.5	26.6	23.9	24.9	25.9	21.4	22.9	24.1	17.6	19.9	21.9	22.6	23.8	25.1
Extremes	10.7	21.7	11.0	27.5	12.0	28.0	19.0	29.5	21.1	29.2	21.5	29.2	21.6	29.2	22.0	28.6	21.5	28.7	16.0																				

แผนภูมิความแตกต่างระหว่างอุณหภูมิกระเปาะแห้งและอุณหภูมิกระเปาะเปียก (diurnal temperatures)



สถาบันวิทยบริการ
 จุฬาลงกรณ์มหาวิทยาลัย

ตารางแสดงผลข้อมูลอุณหภูมิจุดน้ำค้าง (dew point temperatures)

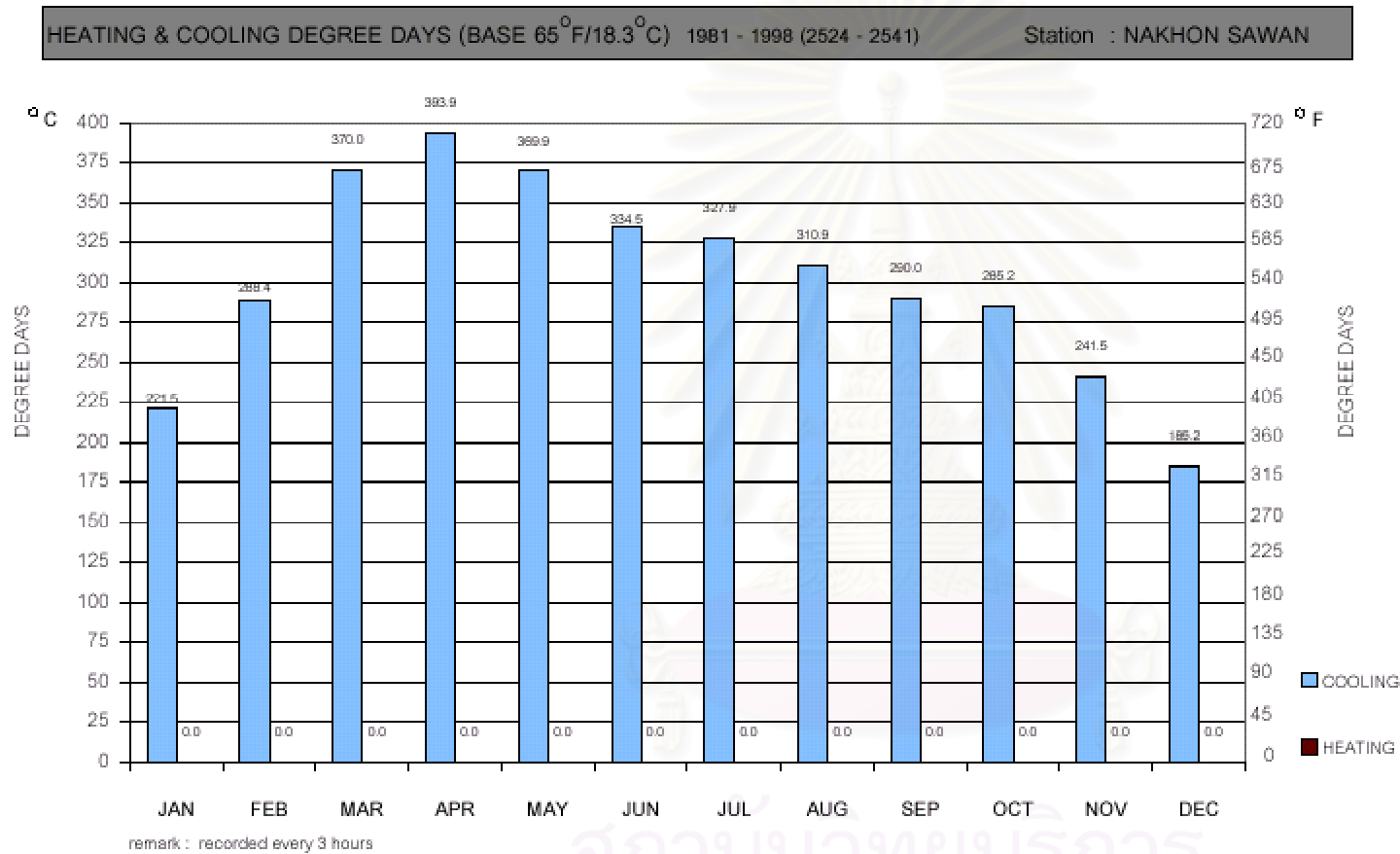
DEW POINT TEMPERATURES (°C) 1981 - 1998 (2524 - 2541)														Station : NAKHON SAWAN																									
MONTH	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE			JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER			ANNUAL		
DAY	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	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	16.9	17.4	18.4	15.9	17.2	17.8	16.9	19.6	21.3	18.9	21.3	23.2	21.4	23.0	24.5	23.5	24.0	24.4	22.5	23.2	23.5	23.1	23.4	23.9	24.0	24.2	24.4	24.4	24.7	25.2	21.6	22.1	22.8	17.9	18.6	19.6	20.6	21.6	22.4
2	16.9	17.6	18.6	15.9	17.1	17.7	16.1	18.8	20.2	20.4	22.1	23.8	21.3	22.8	24.1	23.6	24.1	24.8	23.1	23.2	23.6	23.3	23.5	24.0	23.9	24.3	24.6	24.2	24.5	24.8	21.7	22.3	22.8	17.7	18.4	19.3	20.6	21.6	22.3
3	17.3	18.3	19.3	15.8	17.2	17.7	16.7	18.5	19.4	20.1	22.1	24.0	21.1	22.9	24.6	23.8	24.1	24.4	23.1	23.4	23.6	23.5	23.7	24.0	24.0	24.2	24.4	24.1	24.4	24.6	21.5	22.1	22.5	17.9	18.4	19.0	20.7	21.6	22.3
4	17.4	18.2	19.2	17.0	18.1	18.5	17.0	18.7	19.5	20.2	21.9	23.7	21.3	22.9	24.5	23.5	24.1	24.5	23.0	23.3	23.4	23.6	23.9	24.2	23.8	24.1	24.4	24.0	24.3	24.5	21.5	22.1	22.5	18.0	18.5	19.5	20.9	21.7	22.4
5	17.2	17.8	18.7	16.4	18.2	19.3	16.9	18.9	19.7	20.5	21.9	23.2	22.1	22.9	24.0	23.8	24.2	24.4	23.0	23.3	23.5	23.1	23.6	23.8	23.9	24.0	24.1	23.8	24.1	24.5	21.3	21.8	22.5	18.2	18.7	19.7	20.8	21.6	22.3
6	16.8	17.4	18.6	16.8	18.3	19.5	17.0	19.2	20.3	20.8	22.2	23.5	22.2	23.1	23.9	23.8	24.1	24.5	22.9	23.2	23.8	23.3	23.5	24.2	23.8	24.2	24.5	23.6	24.0	24.6	21.5	22.0	22.7	17.7	18.4	19.3	20.8	21.6	22.4
7	15.9	17.1	17.8	16.1	17.6	18.6	18.2	20.0	21.5	19.7	21.9	23.8	21.9	23.1	24.1	23.7	24.0	24.2	22.8	23.5	24.0	23.4	23.7	24.0	23.8	24.1	24.7	23.7	24.0	24.6	21.8	22.2	22.7	16.9	17.6	18.7	20.7	21.6	22.4
8	16.4	16.8	17.9	15.9	17.4	18.3	16.6	20.0	22.0	20.5	22.1	23.8	22.4	23.4	24.1	23.3	23.8	24.2	23.3	23.5	23.9	23.4	23.6	23.8	23.6	24.1	24.5	24.2	24.5	25.0	21.4	22.2	22.8	16.4	17.3	18.4	20.6	21.6	22.4
9	15.9	16.4	17.6	16.0	17.6	19.1	18.1	20.3	21.9	18.9	21.5	23.6	22.4	23.4	24.4	23.5	23.9	24.2	22.9	23.1	23.4	23.3	23.6	23.9	24.1	24.2	24.4	24.0	24.4	24.9	20.9	21.7	22.5	16.5	17.2	18.2	20.5	21.5	22.3
10	16.1	16.8	18.1	16.2	18.1	19.5	18.3	20.5	21.9	19.0	21.6	23.8	22.7	23.3	24.3	23.6	23.8	24.0	22.7	23.2	23.6	23.8	24.0	24.2	24.0	24.3	24.6	24.3	24.5	24.8	20.3	21.1	21.9	16.8	17.5	18.5	20.6	21.5	22.4
11	16.5	17.2	18.1	16.2	18.2	19.6	17.8	20.6	22.2	19.0	21.7	23.7	22.6	23.4	24.1	23.1	23.6	23.9	23.0	23.3	23.6	23.6	23.9	24.3	23.8	24.2	24.4	23.7	24.0	24.4	20.2	20.9	21.7	17.1	17.9	19.0	20.6	21.6	22.4
12	16.2	17.3	18.1	16.6	18.5	19.7	19.1	21.1	23.1	19.9	22.0	23.7	22.9	23.6	24.1	22.8	23.3	23.8	23.2	23.5	23.8	23.3	23.7	24.0	23.9	24.3	24.7	23.7	24.0	24.4	20.7	21.3	22.1	17.3	18.0	19.0	20.8	21.7	22.5
13	16.8	17.5	18.2	17.0	18.0	21.1	18.7	21.3	23.4	20.4	22.0	23.4	23.4	24.0	24.6	23.2	23.5	23.8	23.3	23.5	23.9	23.4	23.7	24.0	24.2	24.6	24.9	23.8	24.1	24.5	21.4	21.7	22.5	17.0	17.9	19.1	21.1	21.9	22.8
14	16.2	17.3	18.1	17.0	19.6	21.3	18.9	21.4	23.3	20.1	21.8	23.2	23.3	23.9	24.5	22.9	23.5	23.8	23.0	23.5	24.0	23.3	23.7	24.2	24.3	24.6	25.2	23.8	24.2	24.7	21.5	21.9	22.3	17.1	18.0	18.9	20.9	22.0	22.8
15	16.2	17.0	17.7	16.4	19.2	21.1	18.9	21.1	22.8	20.5	22.4	24.0	23.5	23.9	24.3	22.7	23.4	24.0	23.3	23.6	23.7	23.3	23.7	24.1	23.9	24.6	25.2	24.0	24.2	24.7	21.1	21.6	22.3	17.5	17.8	18.4	20.9	21.9	22.7
16	15.9	16.6	17.9	15.5	18.8	20.7	17.8	20.7	22.9	21.3	22.5	23.7	22.9	23.8	24.6	22.6	23.2	23.8	23.2	23.5	23.7	23.6	23.8	24.0	24.5	24.7	25.0	23.9	24.3	24.9	21.5	22.0	22.5	16.7	17.4	18.5	20.8	21.8	22.7
17	16.3	17.0	18.1	16.6	19.4	21.0	17.3	20.5	22.8	21.0	22.7	24.0	23.3	23.9	24.2	22.8	22.9	23.2	23.3	23.6	24.4	23.4	23.8	24.3	24.2	24.7	25.0	24.0	24.2	24.7	21.6	22.0	22.7	16.4	17.1	18.2	20.8	21.8	22.7
18	15.6	16.8	17.5	17.3	19.7	21.6	17.5	20.5	22.8	20.7	22.6	24.1	22.8	23.8	24.6	22.7	23.0	23.6	23.3	23.6	24.4	23.6	23.9	24.2	24.4	24.7	25.3	23.8	24.0	24.5	21.1	21.7	22.4	16.5	17.2	18.0	20.8	21.8	22.8
19	16.3	17.0	17.9	16.2	19.0	21.1	16.6	20.6	23.0	21.6	22.9	24.3	23.8	24.1	24.5	22.9	23.1	23.4	23.1	23.5	23.9	23.5	24.0	24.4	24.3	24.7	25.0	23.5	23.9	24.2	20.5	21.1	21.8	16.7	17.4	18.4	20.7	21.8	22.6
20	15.8	17.3	17.9	16.1	18.6	20.3	18.0	20.6	23.0	21.5	23.0	24.3	23.2	23.9	24.3	22.7	23.2	23.5	23.1	23.6	23.8	23.6	23.9	24.3	24.0	24.5	24.9	23.5	23.8	24.4	20.1	20.9	21.7	16.5	17.1	18.2	20.7	21.7	22.5
21	16.4	17.5	18.1	16.0	18.7	20.5	18.0	21.0	23.3	20.9	22.7	24.2	23.0	23.7	24.1	22.8	23.2	23.6	22.9	23.5	23.8	23.8	24.1	24.2	24.0	24.4	24.8	23.0	23.6	24.0	20.2	20.9	21.8	16.3	17.0	18.0	20.6	21.7	22.5
22	16.6	17.4	18.6	16.2	18.6	20.4	18.1	20.7	23.0	21.1	22.3	23.6	23.0	23.8	24.5	22.6	23.3	23.8	23.3	23.5	23.8	23.6	24.0	24.3	24.1	24.4	24.9	23.2	23.5	24.1	19.7	20.5	21.3	15.7	16.6	17.3	20.6	21.5	22.5
23	15.9	17.4	18.1	16.6	19.3	21.1	18.7	21.1	23.3	21.2	22.5	23.7	23.2	23.7	24.2	22.6	22.9	23.3	23.2	23.5	23.9	23.8	24.0	24.4	24.1	24.4	24.7	23.0	23.6	24.2	19.8	20.5	21.3	15.7	16.4	17.5	20.6	21.6	22.5
24	16.1	17.5	18.1	17.3	19.6	21.1	18.4	21.0	22.9	21.0	22.5	24.1	23.3	24.0	24.8	22.5	22.9	23.1	23.1	23.4	23.8	23.9	24.2	24.5	24.0	24.5	25.0	22.4	23.1	23.6	19.1	19.8	20.7	15.2	15.8	16.7	20.5	21.5	22.4
25	15.8	17.4	18.2	17.6	19.7	21.4	18.6	21.2	23.4	21.5	22.9	24.3	23.9	24.3	24.6	22.6	22.9	23.2	23.3	23.5	23.6	23.9	24.2	24.5	24.3	24.6	25.0	22.5	23.0	23.5	19.0	19.7	20.7	14.9	15.6	16.6	20.6	21.6	22.4
26	16.2	17.1	17.8	18.1	20.2	21.6	19.6	21.4	23.4	21.8	22.9	23.8	24.0	24.3	24.6	22.6	22.9	23.2	23.0	23.3	23.9	23.5	23.9	24.6	24.2	24.5	25.1	22.6	23.0	23.4	19.5	20.2	21.0	15.1	15.8	17.1	20.8	21.6	22.5
27	16.3	16.9	17.6	17.2	19.8	21.7	18.0	21.1	23.5	21.5	22.7	23.8	23.8	24.3	24.7	22.8	23.0	23.4	22.8	23.3	23.7	23.7	23.9	24.3	24.3	24.8	25.1	22.2	22.7	23.4	19.9	20.4	21.2	15.8	16.4	17.8	20.7	21.6	22.5
28	16.1	16.8	17.9	18.4	20.8	22.4	19.0	21.5	23.3	21.2	22.7	23.8	23.7	24.2	24.6	22.6	23.1	23.5	23.2	23.5	23.8	23.7	24.0	24.2	24.4	24.8	25.2	22.3	22.7	23.2	19.9	20.4	21.0	16.1	16.6	17.6	20.9	21.8	22.5
29	15.6	16.4	17.6	16.4	19.8	22.2	19.7	21.9	23.5	21.6	22.7	23.8	23.3	23.9	24.2	22.6	23.1	23.5	23.2	23.3	23.5	23.9	24.1	24.3	24.1	24.4	24.9	22.2	22.8	23.2	19.6	20.0	20.8	15.6	16.5	17.7	20.7	21.6	22.4
30	16.0	17.0	18.2				19.6	21.9	24.0	21.3	23.0	24.2	23.6	23.9	24.3	22.4	22.9	23.3	23.0	23.2	23.5	23.8	24.1	24.4	24.2	24.4	24.9	21.6	22.6	23.2	19.0	19.5	20.4	15.7	16.6	17.6	20.9	21.7	22.5
31	15.4	16.9	18.0				19.4	21.5	23.0				24.0	24.2	24.5				22.6	23.4	23.7	23.6	24.0	24.3				21.8	22.4	22.8				16.0	17.0	18.3	20.4	21.3	22.1
Average	16.3	17.2	18.1	16.6	18.7	20.2	18.0	20.5	22.4	20.6	22.3	23.8	22.9	23.6	24.4	23.0	23.4	23.8	23.1	23.4	23.7	23.5	23.8	24.2	24.1	24.4	24.8	23.4	23.8	24.2	20.6	21.2	21.9	16.6	17.3	18.3	20.7	21.7	22.5
Extremes	4.2		25.8	3.3		25.4	2.2		25.9	6.2		26.9	15.8		27.6	17.1		27.8	9.9		27.8	19.3		27.4	18.2		27.8	12.8		27.7	10.6		26.5						

ตารางแสดงผลข้อมูลปริมาณองศาวัน การทำความร้อนและการทำความเย็น (heating and cooling degree days)

HEATING & COOLING DEGREE DAYS BASE RANGE 35 - 100 °F (1.7 - 37.8 °C) 1981 - 1998 (2524 - 2541)														Station : NAKHON SAWAN													
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	738.2	0.0	771.8	0.0	886.6	0.0	893.9	0.0	886.6	0.0	834.5	0.0	844.6	0.0	827.6	0.0	790.0	0.0	801.8	0.0	741.5	0.0	701.8	0.0	9,718.9	0.0
36	2.2	721.0	0.0	755.7	0.0	869.4	0.0	877.2	0.0	869.3	0.0	817.9	0.0	827.4	0.0	810.4	0.0	773.4	0.0	784.6	0.0	724.8	0.0	684.6	0.0	9,515.6	0.0
37	2.8	703.8	0.0	739.5	0.0	852.2	0.0	860.5	0.0	852.1	0.0	801.2	0.0	810.1	0.0	793.2	0.0	756.7	0.0	767.4	0.0	708.1	0.0	667.4	0.0	9,312.3	0.0
38	3.3	686.5	0.0	723.4	0.0	835.0	0.0	843.9	0.0	834.9	0.0	784.5	0.0	792.9	0.0	775.9	0.0	740.0	0.0	750.2	0.0	691.5	0.0	650.2	0.0	9,108.9	0.0
39	3.9	669.3	0.0	707.3	0.0	817.8	0.0	827.2	0.0	817.7	0.0	767.9	0.0	775.7	0.0	758.7	0.0	723.4	0.0	733.0	0.0	674.8	0.0	632.9	0.0	8,905.6	0.0
40	4.4	652.1	0.0	691.2	0.0	800.5	0.0	810.5	0.0	800.4	0.0	751.2	0.0	758.5	0.0	741.5	0.0	706.7	0.0	715.7	0.0	658.1	0.0	615.7	0.0	8,702.3	0.0
41	5.0	634.9	0.0	675.1	0.0	783.3	0.0	793.9	0.0	783.2	0.0	734.5	0.0	741.2	0.0	724.3	0.0	690.0	0.0	698.5	0.0	641.5	0.0	598.5	0.0	8,498.9	0.0
42	5.6	617.6	0.0	659.0	0.0	766.1	0.0	777.2	0.0	766.0	0.0	717.9	0.0	724.0	0.0	707.1	0.0	681.3	0.0	681.3	0.0	624.8	0.0	581.3	0.0	8,295.6	0.0
43	6.1	600.4	0.0	642.9	0.0	748.9	0.0	760.5	0.0	748.8	0.0	701.2	0.0	706.8	0.0	689.8	0.0	656.7	0.0	664.1	0.0	608.1	0.0	564.1	0.0	8,092.3	0.0
44	6.7	583.2	0.0	626.8	0.0	731.6	0.0	743.9	0.0	731.6	0.0	684.5	0.0	689.6	0.0	672.6	0.0	640.0	0.0	646.8	0.0	591.5	0.0	546.8	0.0	7,888.9	0.0
45	7.2	566.0	0.0	610.7	0.0	714.4	0.0	727.2	0.0	714.3	0.0	667.9	0.0	672.4	0.0	655.4	0.0	623.4	0.0	629.6	0.0	574.8	0.0	529.6	0.0	7,685.6	0.0
46	7.8	548.8	0.0	594.5	0.0	697.2	0.0	710.5	0.0	697.1	0.0	651.2	0.0	655.1	0.0	638.2	0.0	606.7	0.0	612.4	0.0	558.1	0.0	512.4	0.0	7,482.3	0.0
47	8.3	531.5	0.0	578.4	0.0	680.0	0.0	693.9	0.0	679.9	0.0	634.5	0.0	637.9	0.0	620.9	0.0	590.0	0.0	595.2	0.0	541.5	0.0	495.2	0.0	7,278.9	0.0
48	8.9	514.3	0.0	562.3	0.0	662.8	0.0	677.2	0.0	662.7	0.0	617.9	0.0	620.7	0.0	603.7	0.0	573.4	0.0	578.0	0.0	524.8	0.0	477.9	0.0	7,075.6	0.0
49	9.4	497.1	0.0	546.2	0.0	645.5	0.0	660.5	0.0	645.4	0.0	601.2	0.0	603.5	0.0	586.5	0.0	556.7	0.0	560.7	0.0	508.1	0.0	460.7	0.0	6,872.3	0.0
50	10.0	479.9	0.0	530.1	0.0	628.3	0.0	643.9	0.0	628.2	0.0	584.5	0.0	586.2	0.0	569.3	0.0	540.0	0.0	543.5	0.0	491.5	0.0	443.5	0.0	6,668.9	0.0
51	10.6	462.6	0.0	514.0	0.0	611.1	0.0	627.2	0.0	611.0	0.0	567.9	0.0	569.0	0.0	552.1	0.0	523.4	0.0	526.3	0.0	474.8	0.0	426.3	0.0	6,465.6	0.0
52	11.1	445.4	0.0	497.9	0.0	593.9	0.0	610.5	0.0	593.8	0.0	551.2	0.0	551.8	0.0	534.8	0.0	506.7	0.0	509.1	0.0	458.1	0.0	409.1	0.0	6,262.3	0.0
53	11.7	428.2	0.0	481.8	0.0	576.6	0.0	593.9	0.0	576.6	0.0	534.5	0.0	534.6	0.0	517.6	0.0	490.0	0.0	491.8	0.0	441.5	0.0	391.8	0.0	6,058.9	0.0
54	12.2	411.0	0.0	465.7	0.0	559.4	0.0	577.2	0.0	559.3	0.0	517.9	0.0	517.4	0.0	500.4	0.0	473.4	0.0	474.6	0.0	424.8	0.0	374.6	0.0	5,855.6	0.0
55	12.8	393.8	0.0	449.5	0.0	542.2	0.0	560.5	0.0	542.1	0.0	501.2	0.0	500.1	0.0	483.2	0.0	456.7	0.0	457.4	0.0	408.1	0.0	357.4	0.0	5,652.3	0.0
56	13.3	376.5	0.0	433.4	0.0	525.0	0.0	543.9	0.0	524.9	0.0	484.5	0.0	482.9	0.0	465.9	0.0	440.0	0.0	440.2	0.0	391.5	0.0	340.2	0.0	5,448.9	0.0
57	13.9	359.3	0.0	417.3	0.0	507.8	0.0	527.2	0.0	507.7	0.0	467.9	0.0	465.7	0.0	448.7	0.0	423.4	0.0	423.0	0.0	374.8	0.0	322.9	0.0	5,245.6	0.0
58	14.4	342.1	0.0	401.2	0.0	490.5	0.0	510.5	0.0	490.4	0.0	451.2	0.0	448.5	0.0	431.5	0.0	406.7	0.0	405.7	0.0	358.1	0.0	305.7	0.0	5,042.3	0.0
59	15.0	324.9	0.0	385.1	0.0	473.3	0.0	493.9	0.0	473.2	0.0	434.5	0.0	431.2	0.0	414.3	0.0	390.0	0.0	388.5	0.0	341.5	0.0	288.5	0.0	4,838.9	0.0
60	15.6	307.6	0.0	369.0	0.0	456.1	0.0	477.2	0.0	456.0	0.0	417.9	0.0	414.0	0.0	397.1	0.0	373.4	0.0	371.3	0.0	324.8	0.0	271.3	0.0	4,635.6	0.0
61	16.1	290.4	0.0	352.9	0.0	438.9	0.0	460.5	0.0	438.8	0.0	401.2	0.0	396.8	0.0	379.8	0.0	356.7	0.0	354.1	0.0	308.1	0.0	254.1	0.0	4,432.3	0.0
62	16.7	273.2	0.0	336.8	0.0	421.6	0.0	443.9	0.0	421.6	0.0	384.5	0.0	379.6	0.0	362.6	0.0	340.0	0.0	336.8	0.0	291.5	0.0	236.8	0.0	4,228.9	0.0
63	17.2	256.0	0.0	320.7	0.0	404.4	0.0	427.2	0.0	404.3	0.0	367.9	0.0	362.4	0.0	345.4	0.0	323.4	0.0	319.6	0.0	274.8	0.0	219.6	0.0	4,025.6	0.0
64	17.8	238.8	0.0	304.5	0.0	387.2	0.0	410.5	0.0	387.1	0.0	351.2	0.0	345.1	0.0	328.2	0.0	306.7	0.0	302.4	0.0	258.1	0.0	202.4	0.0	3,822.3	0.0
65	18.3	221.5	0.0	288.4	0.0	370.0	0.0	393.9	0.0	369.9	0.0	334.5	0.0	327.9	0.0	310.9	0.0	290.0	0.0	285.2	0.0	241.5	0.0	185.2	0.0	3,618.9	0.0
66	18.9	204.3	0.0	272.3	0.0	352.8	0.0	377.2	0.0	352.7	0.0	317.9	0.0	310.7	0.0	293.7	0.0	273.4	0.0	268.0	0.0	224.8	0.0	167.9	0.0	3,415.6	0.0
67	19.4	187.1	0.0	256.2	0.0	335.5	0.0	360.5	0.0	335.4	0.0	301.2	0.0	293.5	0.0	276.5	0.0	256.7	0.0	250.7	0.0	208.1	0.0	150.7	0.0	3,212.3	0.0
68	20.0	169.9	0.0	240.1	0.0	318.3	0.0	343.9	0.0	318.2	0.0	284.5	0.0	276.2	0.0	259.3	0.0	240.0	0.0	233.5	0.0	191.5	0.0	133.5	0.0	3,008.9	0.0

จุฬาลงกรณ์มหาวิทยาลัย

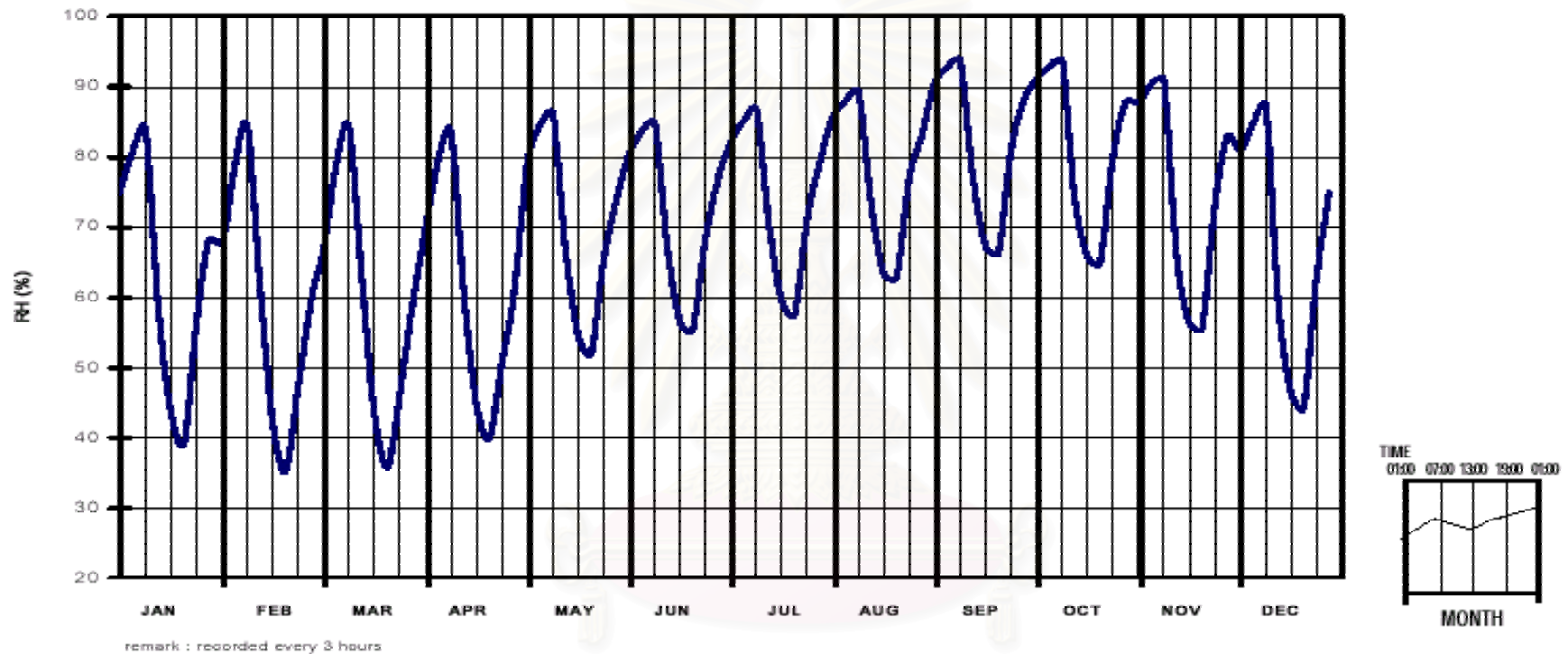
แผนภูมิปริมาณองศาวัน การทำความร้อนและการทำความเย็น (heating and cooling degree days)



สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

แผนภูมิความชื้นสัมพัทธ์ (relative humidity)

RELATIVE HUMIDITY (%) 1981-1998 (2524-2541) Station : NAKHON SAWAN



สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

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

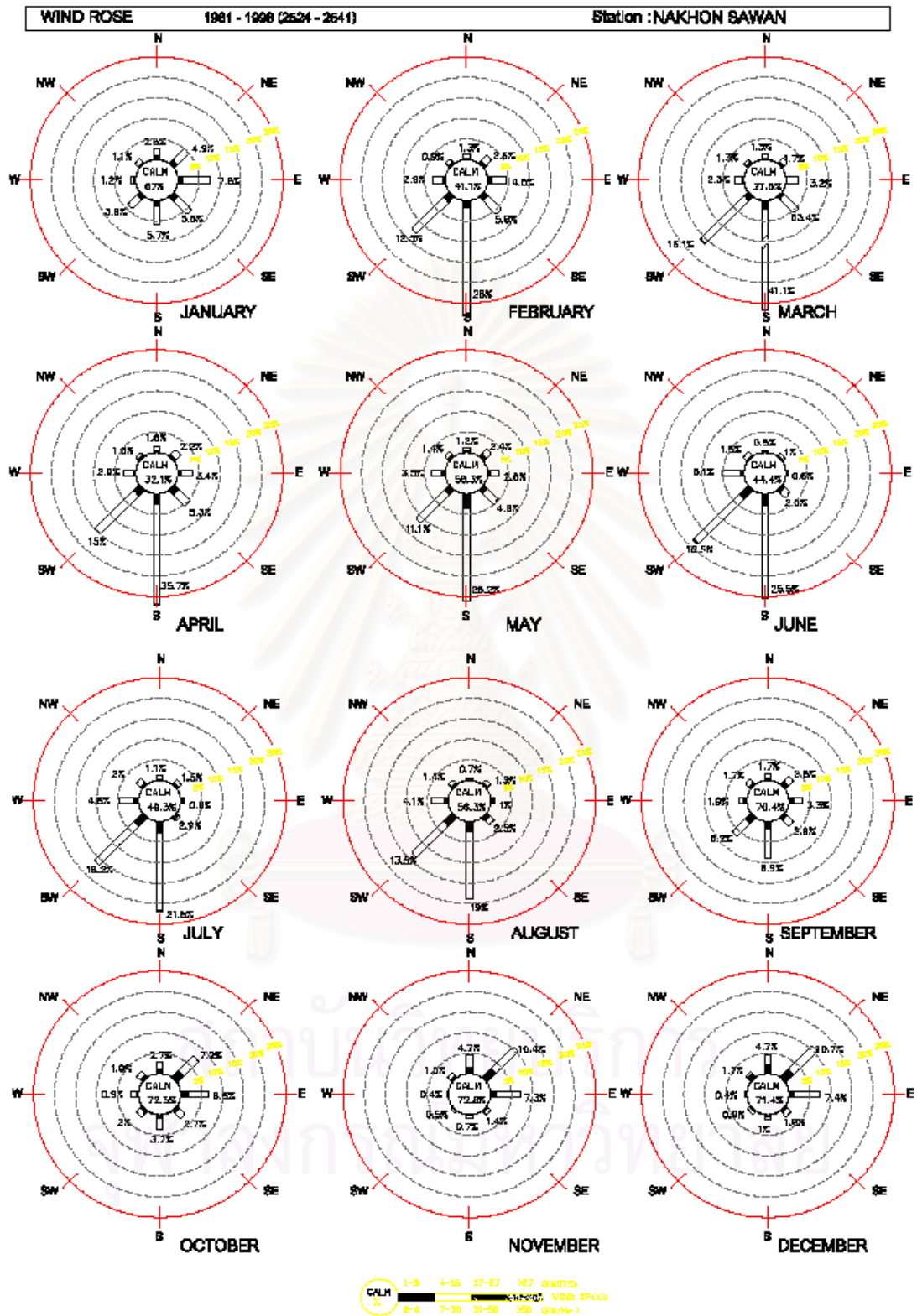
MONTHLY FREQUENCY DISTRIBUTION OF WIND IN EACH SPEED AND DIRECTION 1981-1998 (2524-2541)

Station : NAKHON SAWAN

January											February											March																			
kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total	kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total	kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total			
1-3	2-6	0.8-1.5	0.9	1.1	1.1	1.2	1.5	0.8	0.8	0.8		67	67	1-3	2-6	0.8-1.5	0.4	0.8	0.8	1.1	1.9	1.8	0.8	0.4		41.1	41.1	1-3	2-6	0.6-1.5	0.3	0.4	0.3	0.7	2.2	1.3	0.6	0.5		27.6	27.6
4-16	7-30	1.6-8.5	1.7	3.6	6.7	4.4	4.2	3.1	0.6	0.5		25	25	4-16	7-30	1.6-8.5	0.9	2	3.7	4.7	25.9	10.7	2.1	0.5		50.5	50.5	4-16	7-30	1.6-8.5	1	1.3	2.9	4.7	38.6	14.7	1.7	0.8		65.7	65.7
17-27	31-60	8.6-14	0	0	0	0	0	0	0	0		0	0	17-27	31-60	8.6-14	0	0	0	0	0.2	0	0	0		0.2	0.2	17-27	31-60	8.6-14	0	0	0	0	0.3	0.1	0	0		0.4	0.4
>27	>60	>14	0	0	0	0	0	0	0	0		0	0	>27	>60	>14	0	0	0	0	0	0	0		0	0	>27	>60	>14	0	0	0	0	0	0	0	0		0	0	
Total			2.6	4.9	7.8	5.8	5.7	3.9	1.2	1.1		67	100	Total			1.3	2.6	4.5	5.8	28	12.5	2.9	0.9		41.1	100	Total			1.3	1.7	3.2	5.4	41.1	18.1	2.3	1.3		27.6	100
April											May											June																			
kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total	kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total	kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total			
1-3	2-6	0.8-1.5	0.5	0.4	0.7	1.3	2.5	1.8	0.8	0.4		32.1	32.1	1-3	2-6	0.8-1.5	0.8	0.8	0.6	1	3.4	1.8	1.1	0.5		48.8	48.8	1-3	2-6	0.6-1.5	0.1	0.3	0.3	0.6	3	2.9	0.8	0.2		44.4	44.4
4-16	7-30	1.6-8.5	1.1	1.6	2.7	4	32.7	13.1	2.3	1.2		58.9	58.9	4-16	7-30	1.6-8.5	0.6	1.6	2	3.8	22.6	9.5	2.4	0.9		43.4	43.4	4-16	7-30	1.6-8.5	0.4	0.7	0.3	1.7	22.3	15.5	4.3	1.3		46.5	46.5
17-27	31-60	8.6-14	0	0	0	0	0.5	0.1	0	0		0.6	0.6	17-27	31-60	8.6-14	0	0	0	0	0.2	0	0	0		0.2	0.2	17-27	31-60	8.6-14	0	0	0	0	0.2	0.1	0	0		0.3	0.3
>27	>60	>14	0	0	0	0	0	0	0	0		0	0	>27	>60	>14	0	0	0	0	0	0	0		0	0	>27	>60	>14	0	0	0	0	0	0	0	0		0	0	
Total			1.6	2.2	3.4	5.3	36.7	15	2.9	1.6		32.1	100	Total			1.2	2.4	2.6	4.8	26.2	11.1	3.5	1.4		48.8	100	Total			0.5	1	0.6	2.5	25.5	18.5	5.1	1.5		44.4	100
July											August											September																			
kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total	kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total	kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total			
1-3	2-6	0.8-1.5	0.3	0.4	0.4	0.8	2.9	2.9	1	0.6		49.3	49.3	1-3	2-6	0.8-1.5	0.3	0.4	0.5	0.9	2.5	2.6	1	0.4		56.3	56.3	1-3	2-6	0.6-1.5	0.6	0.9	1.2	0.7	1.7	1.9	0.7	0.6		70.4	70.4
4-16	7-30	1.6-8.5	0.8	1.1	0.5	2.3	18.7	13.3	3.5	1.4		41.6	41.6	4-16	7-30	1.6-8.5	0.4	0.9	0.5	1.6	16.5	10.9	3.1	1		34.9	34.9	4-16	7-30	1.6-8.5	1.1	1.9	2.1	2.2	7.2	4.3	1.2	1.1		21.1	21.1
17-27	31-60	8.6-14	0	0	0	0	0.2	0	0.1	0		0.3	0.3	17-27	31-60	8.6-14	0	0	0	0	0	0	0	0		0	0	17-27	31-60	8.6-14	0	0	0	0	0	0	0	0		0	0
>27	>60	>14	0	0	0	0	0	0	0	0		0	0	>27	>60	>14	0	0	0	0	0	0	0		0	0	>27	>60	>14	0	0	0	0	0	0	0	0		0	0	
Total			1.1	1.5	0.9	2.9	21.8	16.2	4.6	2		49.3	100	Total			0.7	1.3	1	2.5	19	13.5	4.1	1.4		56.3	100	Total			1.7	2.6	3.3	2.9	8.9	6.2	1.9	1.7		70.4	100
October											November											December																			
kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total	kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total	kts	km/h	m/s	N	NE	E	SE	S	SW	W	NW	Calm	Total			
1-3	2-6	0.8-1.5	1.1	2	1.7	0.7	0.9	0.6	0.4	0.7		72.3	72.3	1-3	2-6	0.6-1.5	1.6	3	1.2	0.4	0.2	0.2	0.1	0.6		72.8	72.8	1-3	2-6	0.6-1.5	2.1	2.7	1.2	0.4	0.4	0.3	0.2	1.1		71.4	71.4
4-16	7-30	1.6-8.5	1.6	5.2	4.8	2	2.8	1.4	0.5	1.2		19.5	19.5	4-16	7-30	1.6-8.5	3.1	7.4	6.1	1	0.5	0.3	0.3	0.9		19.6	19.6	4-16	7-30	1.6-8.5	2.6	8	6.2	1.5	0.6	0.6	0.2	0.6		20.3	20.3
17-27	31-60	8.6-14	0	0	0	0	0	0	0	0		0	0	17-27	31-60	8.6-14	0	0	0	0	0	0	0	0		0	0	17-27	31-60	8.6-14	0	0	0	0	0	0	0	0		0	0
>27	>60	>14	0	0	0	0	0	0	0	0		0	0	>27	>60	>14	0	0	0	0	0	0	0		0	0	>27	>60	>14	0	0	0	0	0	0	0	0		0	0	
Total			2.7	7.2	6.5	2.7	3.7	2	0.9	1.9		72.3	100	Total			4.7	10.4	7.3	1.4	0.7	0.5	0.4	1.5		72.8	100	Total			4.7	10.7	7.4	1.9	1	0.9	0.4	1.7		71.4	100

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

แผนภูมิจำแนกความถี่ของลม ในแต่ละความเร็วและทิศทาง ที่เกิดลมรายเดือน (wind rose)



ตารางแสดงผลข้อมูลสภาพท้องฟ้าและสัดส่วนเปอร์เซ็นต์สภาพท้องฟ้า (sky cover and percentage of sky

SKY COVER (%) & SKY CONDITION 1981 - 1998 (2524 - 2541)															Station : NAKHON SAWAN																								
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					
	Cir	Part	Cld	Cir	Part	Cld	Cir	Part	Cld	Cir	Part	Cld	Cir	Part	Cld	Cir	Part	Cld	Cir	Part	Cld	Cir	Part	Cld	Cir	Part	Cld	Cir	Part	Cld	Cir	Part	Cld	Cir	Part	Cld	Cir	Part	Cld
1	75%	15%	10%	77%	14%	9%	51%	29%	20%	61%	19%	20%	36%	39%	25%	13%	37%	51%	9%	23%	68%	4%	10%	86%	5%	17%	78%	10%	29%	61%	51%	27%	21%	57%	20%	23%	38%	23%	39%
2	77%	13%	10%	81%	13%	7%	49%	29%	23%	63%	27%	10%	44%	34%	22%	12%	40%	49%	15%	25%	60%	5%	20%	75%	8%	21%	71%	8%	23%	69%	49%	23%	28%	66%	17%	17%	40%	24%	37%
3	67%	18%	15%	76%	19%	5%	64%	18%	18%	63%	24%	14%	46%	35%	19%	7%	25%	68%	9%	31%	60%	7%	18%	76%	4%	26%	70%	9%	27%	64%	49%	19%	32%	74%	12%	15%	39%	23%	38%
4	74%	18%	7%	68%	18%	14%	63%	26%	11%	66%	13%	21%	41%	37%	22%	3%	34%	63%	13%	23%	64%	4%	12%	84%	7%	29%	64%	5%	26%	68%	48%	21%	31%	80%	12%	8%	39%	22%	38%
5	71%	22%	7%	79%	13%	9%	60%	21%	19%	58%	20%	22%	44%	16%	40%	7%	32%	62%	7%	18%	74%	2%	20%	78%	4%	22%	74%	13%	23%	65%	57%	22%	21%	73%	17%	10%	40%	20%	40%
6	74%	22%	4%	77%	18%	4%	66%	13%	21%	57%	20%	24%	32%	28%	40%	9%	23%	68%	4%	24%	71%	5%	15%	79%	4%	23%	74%	18%	31%	51%	60%	21%	19%	71%	21%	8%	40%	22%	39%
7	65%	26%	10%	76%	15%	9%	51%	33%	16%	55%	32%	13%	26%	36%	38%	3%	18%	79%	4%	24%	71%	5%	18%	76%	2%	18%	80%	21%	37%	42%	63%	27%	10%	79%	12%	9%	38%	25%	38%
8	76%	18%	5%	74%	12%	14%	59%	20%	21%	68%	15%	17%	38%	21%	40%	9%	21%	71%	7%	26%	67%	2%	14%	84%	4%	18%	77%	22%	26%	52%	56%	20%	24%	65%	22%	13%	40%	19%	40%
9	78%	15%	7%	68%	18%	14%	60%	23%	18%	57%	26%	17%	26%	31%	43%	4%	37%	60%	13%	23%	64%	2%	12%	86%	3%	15%	82%	21%	14%	65%	52%	13%	35%	68%	22%	10%	38%	21%	42%
10	80%	13%	7%	69%	16%	15%	65%	23%	12%	74%	21%	5%	15%	29%	57%	10%	29%	62%	8%	22%	70%	1%	15%	84%	5%	15%	80%	11%	35%	54%	40%	24%	36%	72%	13%	15%	38%	21%	41%
11	83%	10%	7%	72%	15%	13%	68%	23%	9%	70%	19%	11%	24%	38%	38%	8%	27%	65%	4%	16%	80%	3%	12%	85%	4%	32%	64%	24%	33%	43%	52%	26%	21%	66%	21%	13%	40%	23%	37%
12	76%	18%	6%	63%	25%	12%	55%	28%	17%	56%	19%	25%	26%	32%	42%	9%	26%	65%	4%	25%	71%	1%	17%	82%	6%	35%	60%	13%	36%	51%	51%	21%	28%	69%	21%	10%	36%	25%	39%
13	68%	28%	4%	73%	16%	11%	68%	24%	8%	54%	21%	25%	22%	34%	44%	9%	26%	65%	4%	18%	79%	5%	13%	82%	17%	29%	54%	16%	35%	49%	46%	22%	32%	82%	15%	3%	39%	23%	38%
14	79%	14%	7%	69%	20%	11%	70%	15%	15%	54%	29%	16%	26%	31%	43%	12%	32%	56%	2%	9%	89%	4%	18%	78%	14%	14%	72%	23%	35%	43%	35%	33%	32%	79%	10%	10%	39%	22%	39%
15	79%	15%	5%	75%	16%	9%	73%	17%	10%	41%	37%	22%	26%	27%	47%	15%	28%	57%	2%	15%	82%	3%	11%	86%	7%	30%	63%	21%	29%	49%	41%	33%	26%	64%	15%	21%	37%	23%	40%
16	84%	13%	3%	73%	16%	11%	71%	21%	8%	51%	23%	26%	15%	33%	51%	13%	28%	60%	8%	22%	70%	3%	17%	80%	5%	21%	74%	29%	29%	42%	46%	31%	23%	75%	10%	15%	39%	22%	38%
17	74%	16%	10%	74%	17%	9%	80%	16%	4%	53%	24%	24%	20%	37%	43%	9%	26%	65%	13%	24%	63%	7%	17%	76%	6%	26%	68%	20%	26%	54%	45%	29%	26%	79%	10%	12%	40%	22%	38%
18	79%	16%	5%	69%	19%	12%	71%	21%	9%	54%	25%	21%	13%	32%	54%	4%	31%	65%	9%	24%	68%	6%	15%	79%	3%	30%	67%	17%	32%	51%	59%	20%	21%	72%	15%	13%	38%	23%	39%
19	69%	27%	4%	63%	16%	21%	74%	21%	6%	49%	25%	26%	13%	36%	51%	5%	29%	65%	15%	18%	67%	4%	15%	82%	4%	29%	67%	24%	29%	46%	65%	18%	18%	68%	19%	13%	38%	24%	39%
20	76%	13%	10%	76%	13%	11%	74%	17%	10%	43%	32%	25%	22%	29%	49%	5%	23%	72%	12%	26%	63%	1%	21%	77%	1%	35%	64%	27%	38%	35%	66%	24%	10%	82%	10%	8%	41%	23%	36%
21	71%	24%	5%	74%	15%	12%	64%	26%	10%	41%	24%	35%	24%	26%	50%	14%	36%	50%	10%	29%	62%	1%	24%	74%	6%	31%	63%	32%	35%	33%	65%	18%	17%	76%	15%	9%	40%	25%	35%
22	74%	18%	9%	71%	17%	13%	63%	24%	13%	47%	23%	30%	30%	30%	40%	16%	36%	48%	7%	21%	72%	2%	26%	72%	15%	29%	55%	40%	31%	29%	57%	21%	21%	77%	15%	8%	42%	24%	34%
23	73%	14%	13%	69%	24%	7%	64%	20%	16%	54%	24%	21%	21%	34%	46%	17%	23%	60%	5%	21%	74%	1%	24%	74%	10%	25%	65%	32%	28%	40%	58%	25%	17%	79%	13%	8%	40%	23%	37%
24	68%	20%	13%	62%	23%	15%	65%	23%	13%	45%	32%	23%	22%	29%	49%	10%	25%	65%	11%	18%	71%	1%	12%	88%	6%	32%	63%	40%	33%	27%	64%	15%	21%	79%	10%	11%	39%	23%	38%
25	54%	24%	21%	63%	22%	15%	71%	20%	10%	22%	39%	39%	13%	31%	57%	10%	21%	70%	11%	21%	68%	4%	13%	84%	11%	25%	64%	33%	33%	34%	69%	18%	13%	84%	10%	7%	37%	23%	40%
26	49%	30%	21%	67%	23%	10%	64%	18%	18%	43%	27%	29%	13%	37%	51%	7%	10%	82%	5%	17%	78%	7%	21%	73%	15%	18%	66%	30%	32%	38%	55%	23%	22%	79%	17%	4%	36%	23%	41%
27	63%	24%	13%	60%	21%	20%	57%	24%	20%	42%	34%	24%	11%	26%	63%	5%	12%	83%	4%	24%	72%	10%	21%	70%	13%	33%	54%	38%	31%	31%	43%	21%	36%	73%	12%	15%	35%	23%	42%
28	76%	13%	10%	57%	28%	15%	57%	27%	15%	38%	29%	33%	10%	32%	58%	4%	15%	81%	3%	24%	73%	10%	23%	68%	18%	31%	51%	45%	24%	31%	45%	24%	32%	71%	15%	14%	36%	24%	40%
29	65%	24%	12%	69%	19%	13%	64%	22%	14%	38%	29%	32%	9%	32%	60%	8%	18%	74%	0%	15%	85%	6%	19%	75%	21%	28%	51%	41%	29%	29%	51%	22%	26%	80%	6%	14%	38%	22%	40%
30	73%	16%	11%				54%	24%	23%	36%	30%	34%	5%	29%	66%	10%	16%	74%	5%	10%	85%	0%	16%	84%	19%	21%	60%	48%	23%	29%	63%	21%	16%	74%	9%	17%	35%	19%	45%
31	76%	17%	7%				50%	32%	18%				10%	29%	61%				3%	7%	90%							57%	17%	26%				77%	10%	13%	40%	19%	41%
AVG %	73%	19%	9%	70%	18%	12%	63%	22%	14%	52%	25%	23%	23%	31%	45%	9%	26%	65%	7%	21%	72%	4%	17%	79%	8%	25%	66%	25%	29%	45%	53%	23%	24%	74%	14%	12%	38%	23%	39%
condition	2.5			2.8			3.2			4.1			6.4			7.7			8.1			8.5			7.8			6.3			4.1			2.6			5.3		

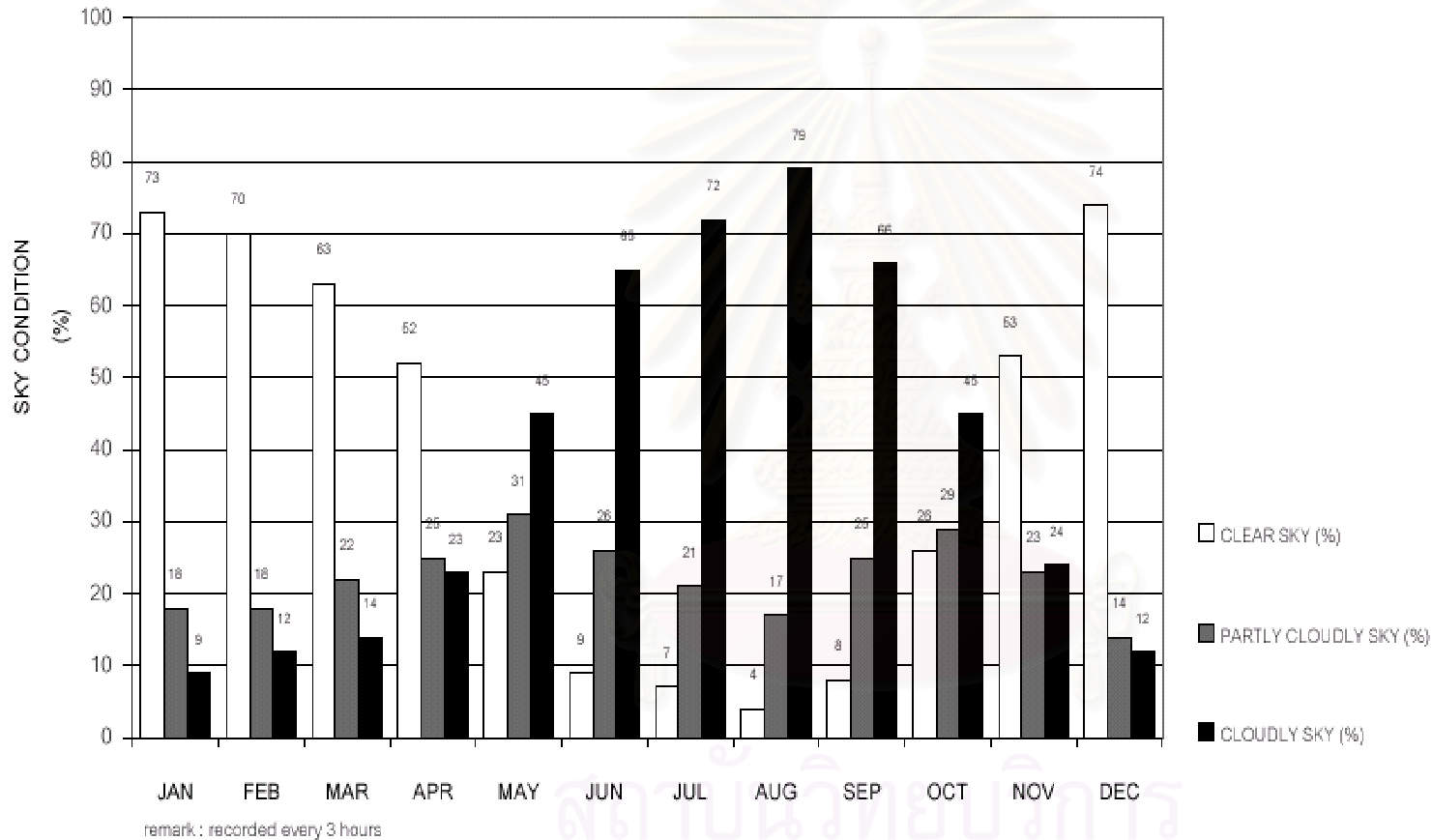
remark : condition (SKY CONDITION) 0-3 = Clear Sky, 4-7 = Partly Cloudy Sky, 8-10 = Cloudy Sky, AVG % = AVERAGE PERCENTAGE OF SKY CONDITION

condition)

สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

แผนภูมิสภาพท้องฟ้าและสัดส่วนเปอร์เซ็นต์สภาพท้องฟ้า (sky cover and percentage of sky condition)

SKY CONDITION (%) 1981-1998 (2524-2541) Station : NAKHON SAWAN



ตารางแสดงผลข้อมูลระยะเวลาของแสงแดด (duration of sunshine)

DURATION OF SUNSHINE (hours) 1981 - 1998 (2524 - 2541)													Station : NAKHON SAWAN	
MONTH	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL	
DAY	hours avg %	hours avg %	hours avg %	hours avg %	hours avg %	hours avg %	hours avg %	hours avg %	hours avg %	hours avg %	hours avg %	hours avg %	hours avg %	
1	8.2 68.5%	9.0 74.7%	7.6 63.4%	9.7 81.0%	9.5 79.1%	8.2 68.3%	4.5 37.1%	3.7 31.1%	5.3 44.2%	6.1 50.5%	8.3 69.2%	6.9 57.4%	7.2 60.4%	
2	7.9 65.8%	9.2 76.5%	7.7 64.2%	9.3 77.2%	9.9 82.6%	7.8 65.1%	5.4 45.0%	4.1 34.0%	5.1 42.9%	6.3 52.3%	7.4 61.9%	6.8 57.0%	7.2 60.4%	
3	7.7 64.4%	8.9 74.4%	8.3 69.2%	9.0 74.7%	9.2 77.0%	5.8 48.6%	5.7 47.1%	5.8 48.4%	5.5 45.5%	6.4 53.5%	7.2 60.1%	7.3 61.2%	7.2 60.3%	
4	8.5 71.0%	8.9 74.1%	8.7 72.8%	8.9 74.5%	9.5 79.2%	7.6 63.1%	5.3 44.0%	4.2 34.6%	6.8 56.8%	5.4 44.7%	6.4 53.4%	8.1 67.4%	7.4 61.3%	
5	8.3 68.8%	9.3 77.5%	7.8 64.9%	9.1 75.9%	7.7 63.8%	7.5 62.7%	4.0 33.4%	5.1 42.2%	6.8 56.9%	4.0 33.6%	7.1 59.3%	7.9 65.9%	7.0 58.7%	
6	8.3 69.2%	9.7 80.5%	8.2 68.4%	8.8 73.6%	9.0 74.6%	6.9 57.5%	5.8 48.1%	5.7 47.2%	5.4 45.3%	6.8 56.9%	8.0 66.9%	8.0 66.7%	7.5 62.9%	
7	8.2 68.3%	9.4 78.1%	7.6 63.0%	9.0 74.7%	8.9 74.4%	5.4 44.9%	6.6 55.3%	5.9 48.8%	5.6 46.7%	7.0 58.3%	9.1 75.8%	7.7 63.9%	7.5 62.7%	
8	8.6 71.9%	8.9 74.1%	8.2 68.5%	8.5 70.9%	8.0 66.8%	6.2 51.3%	6.2 51.7%	6.1 50.7%	5.4 45.2%	6.4 53.4%	7.4 61.6%	7.8 65.2%	7.3 61.0%	
9	8.3 69.0%	9.0 74.9%	8.5 70.6%	9.6 79.7%	8.3 68.9%	6.1 51.1%	5.9 49.3%	5.5 45.4%	4.9 40.9%	5.6 46.6%	7.1 59.2%	8.2 68.4%	7.2 60.3%	
10	8.5 70.8%	8.4 70.3%	9.1 76.0%	10.0 83.6%	7.5 62.8%	7.3 60.6%	6.7 56.2%	5.1 42.4%	5.6 46.7%	4.9 41.0%	7.1 58.8%	7.2 60.3%	7.3 60.8%	
11	8.4 70.3%	8.8 73.3%	9.4 78.1%	10.0 83.5%	8.7 72.6%	7.5 62.5%	5.2 43.5%	4.8 39.9%	6.6 54.6%	6.5 54.0%	8.0 66.3%	7.7 64.0%	7.6 63.6%	
12	8.5 70.6%	8.8 73.3%	8.8 73.5%	9.6 79.9%	9.4 78.3%	6.4 53.5%	6.8 56.6%	5.7 47.8%	6.4 53.3%	6.1 51.0%	8.4 70.1%	7.7 64.0%	7.7 64.3%	
13	8.2 68.5%	8.4 70.0%	9.0 74.7%	9.6 79.9%	8.2 67.9%	6.3 52.3%	6.2 51.6%	5.5 45.7%	6.0 49.8%	6.8 56.3%	7.0 58.2%	8.3 69.0%	7.4 62.0%	
14	8.6 71.6%	9.3 74.1%	8.2 68.3%	9.3 77.8%	8.0 67.0%	6.2 51.7%	5.3 44.1%	5.2 42.9%	4.8 39.8%	7.5 62.5%	7.2 60.1%	7.8 65.0%	7.2 60.4%	
15	8.7 72.5%	9.3 77.6%	9.0 75.2%	9.1 76.0%	7.7 64.4%	6.6 55.1%	5.6 46.7%	4.9 40.9%	5.7 47.5%	7.2 59.6%	7.3 61.0%	6.8 57.0%	7.3 61.1%	
16	9.1 76.0%	9.0 75.0%	9.4 78.2%	9.4 78.3%	7.6 63.3%	6.3 52.4%	6.4 53.1%	5.2 43.1%	4.9 40.9%	6.8 57.0%	8.0 67.0%	7.0 58.5%	7.4 61.9%	
17	8.9 74.3%	8.5 71.2%	9.6 79.8%	9.8 81.5%	8.2 68.5%	6.0 49.7%	6.5 54.5%	4.7 39.2%	6.1 50.5%	5.5 45.7%	7.4 61.3%	7.4 61.3%	7.4 61.4%	
18	9.1 76.0%	9.2 76.7%	9.5 79.0%	9.4 78.2%	7.0 58.4%	6.3 52.1%	6.3 52.2%	3.5 29.4%	5.0 41.5%	6.1 50.5%	7.7 63.8%	6.9 57.7%	7.2 59.6%	
19	9.1 75.9%	8.0 66.5%	9.3 77.4%	8.7 72.5%	6.1 50.4%	6.6 55.2%	6.2 51.5%	5.2 43.5%	4.5 37.7%	6.4 53.5%	7.9 65.9%	7.2 59.7%	7.1 59.1%	
20	8.6 71.9%	8.6 71.5%	9.3 77.6%	7.7 64.3%	7.1 58.8%	6.9 57.4%	6.2 52.0%	4.7 39.5%	4.8 39.6%	7.5 62.9%	8.5 70.6%	8.0 66.9%	7.3 61.1%	
21	8.0 66.5%	8.6 71.9%	9.1 76.1%	9.0 75.1%	7.9 65.7%	7.5 62.7%	5.6 46.3%	5.5 46.1%	5.4 45.2%	8.5 70.8%	7.6 63.3%	8.0 66.6%	7.6 63.0%	
22	8.8 73.3%	9.4 78.2%	9.0 74.9%	8.5 70.5%	8.9 74.3%	8.1 67.3%	4.8 40.3%	7.0 58.1%	7.1 58.9%	7.8 65.2%	6.8 56.7%	8.1 67.2%	7.8 65.4%	
23	9.0 75.3%	9.8 82.0%	8.8 73.3%	10.3 85.7%	8.4 70.3%	6.4 53.7%	5.7 47.1%	4.4 37.0%	5.0 41.6%	8.2 68.3%	7.7 64.3%	8.4 69.7%	7.7 64.0%	
24	8.1 67.8%	9.0 74.9%	8.4 70.2%	9.6 80.3%	8.4 70.1%	5.4 45.1%	4.2 35.1%	3.8 31.3%	5.7 47.1%	7.4 62.0%	7.4 61.3%	7.4 61.8%	7.1 58.9%	
25	7.2 59.7%	8.7 72.3%	8.6 71.9%	7.5 62.5%	7.5 62.6%	6.1 50.9%	4.7 39.2%	5.6 46.4%	5.5 45.7%	7.4 61.4%	8.0 66.4%	7.8 65.1%	7.0 58.7%	
26	8.0 66.5%	8.6 71.3%	8.6 71.4%	9.3 77.6%	8.0 66.6%	5.3 44.5%	4.1 34.0%	6.7 55.6%	5.5 45.9%	7.7 63.8%	7.4 61.9%	8.5 71.2%	7.3 60.9%	
27	7.8 64.6%	9.4 78.3%	8.6 71.3%	8.6 71.8%	7.0 58.1%	3.9 32.2%	5.0 41.4%	7.1 58.8%	6.4 53.3%	8.4 69.8%	6.8 56.3%	7.4 62.0%	7.2 59.8%	
28	8.1 67.4%	8.8 73.3%	8.6 72.0%	9.2 76.7%	6.5 54.2%	4.0 33.0%	5.8 48.6%	7.1 59.2%	6.4 53.1%	7.8 65.1%	6.1 51.1%	8.0 66.4%	7.2 60.0%	
29	8.0 66.9%	9.7 80.6%	8.9 74.3%	9.5 79.4%	8.0 66.3%	6.4 53.4%	5.2 43.0%	4.7 39.8%	7.3 60.5%	7.6 63.0%	6.7 56.1%	8.1 67.7%	7.5 62.5%	
30	8.2 68.1%		9.5 79.4%	9.1 75.6%	7.3 60.4%	5.6 46.3%	4.6 37.9%	3.4 28.3%	4.9 41.1%	7.7 64.3%	7.9 65.7%	8.2 68.7%	6.9 57.6%	
31	8.3 69.4%		8.6 72.0%		6.3 55.5%		2.3 19.0%	4.2 35.1%		7.5 62.9%		8.2 68.3%	6.6 54.6%	
Average	8.4 69.7%	9.0 74.7%	8.7 72.6%	9.2 76.4%	8.1 67.2%	6.4 53.5%	5.4 45.3%	5.2 42.9%	5.7 47.3%	6.8 56.8%	7.5 62.4%	7.7 64.2%	7.3 60.9%	
Total	259.3	260.0	260.9	275.2	250.0	192.5	168.6	159.8	170.2	211.2	224.8	238.9	2,680.4	

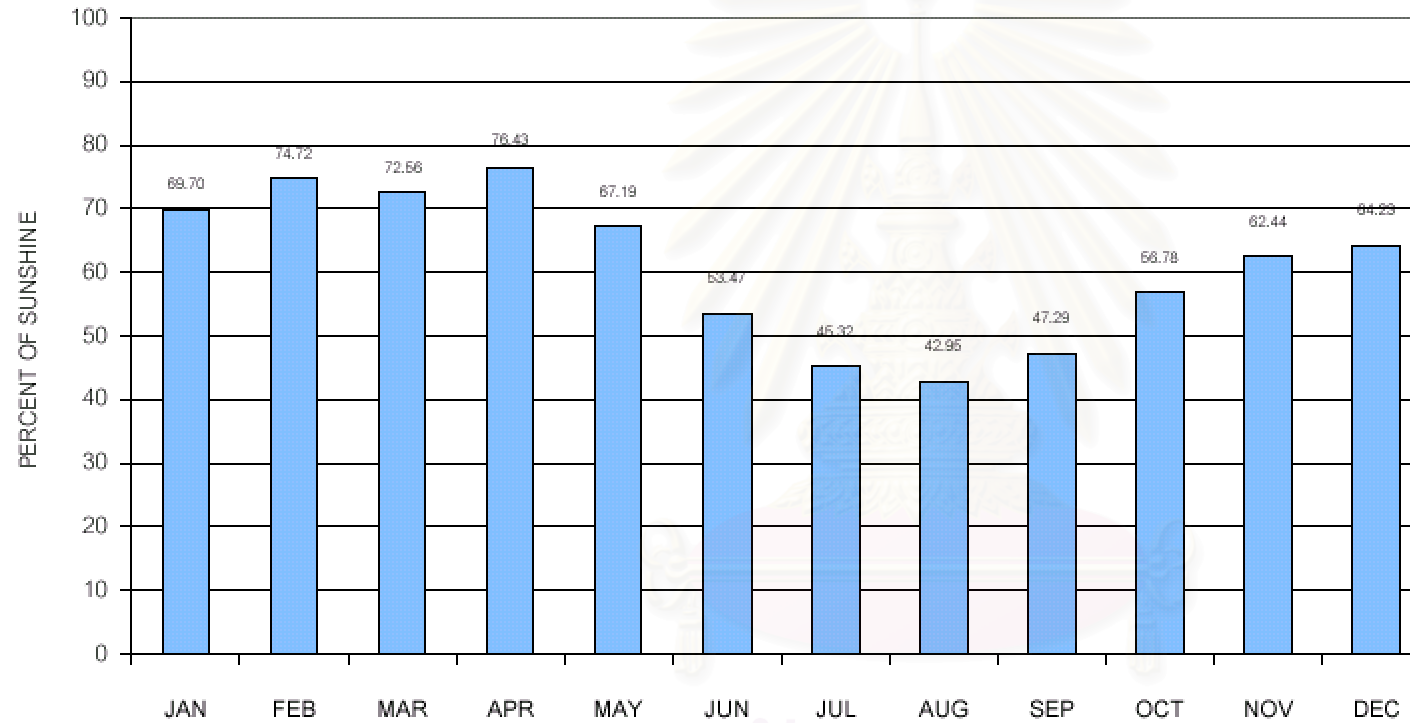
remark : observation hour = 12 hours (from 06:00 - 07:00 to 17:00 - 18:00)

จุฬาลงกรณ์มหาวิทยาลัย

แผนภูมิระยะเวลาของแสงแดด (average percent sunshine per month)

AVERAGE PERCENT OF SUNSHINE PER MONTH 1987-1998 (2530-2541)

Station : NAKHON SAWAN



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

สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

ตารางแสดงผลข้อมูลปริมาณรังสีรวมดวงอาทิตย์ (solar

SOLAR RADIATION (W / m ²) 1998 (2541)														Station : NAKHONSAWAN														
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	hourly	daily
1	255.3	3,829.3	261.2	3,918.3	231.9	3,478.8	336.0	5,039.4	399.1	5,986.1	360.9	5,413.7	309.0	4,635.1	241.4	3,621.3	325.4	4,881.4	325.4	4,881.4	333.1	4,997.1	274.8	4,122.4	304.5	4,567.0		
2	254.5	3,816.9	279.4	4,191.7	246.0	3,690.1	308.4	4,625.3	402.9	6,044.1	397.2	5,957.7	230.4	3,455.5	350.1	5,252.1	349.2	5,237.3	322.1	4,832.1	308.2	4,623.0	295.1	4,426.0	312.0	4,679.3		
3	267.2	4,007.4	257.5	3,861.8	273.9	4,108.9	279.6	4,194.0	355.8	5,336.7	345.7	5,185.5	249.3	3,739.6	338.5	5,077.2	393.2	5,898.1	267.7	4,016.1	195.5	2,932.2	253.7	3,805.8	289.8	4,346.9		
4	271.5	4,073.0	262.3	3,934.7	319.8	4,797.1	215.8	3,237.4	360.3	5,404.6	388.7	5,831.2	241.7	3,625.2	358.8	5,381.6	342.5	5,138.0	336.4	5,045.3	79.4	1,190.3	270.4	4,056.4	287.3	4,309.6		
5	280.2	4,202.3	192.0	2,880.3	334.2	5,013.2	357.3	5,359.3	396.7	5,950.5	386.1	5,791.0	191.9	2,878.9	325.8	4,887.4	363.7	5,455.6	334.7	5,020.3	231.1	3,466.4	299.4	4,490.9	307.8	4,616.3		
6	258.6	3,878.6	291.2	4,368.5	326.3	4,895.2	350.1	5,252.1	370.5	5,557.2	348.6	5,228.6	385.4	5,781.5	346.6	5,199.0	265.1	3,976.3	308.5	4,627.6	293.7	4,406.0	296.5	4,447.8	320.1	4,801.6		
7	295.0	4,425.7	302.8	4,541.7	349.7	5,245.4	342.9	5,143.7	411.6	6,173.9	324.5	4,868.1	347.7	5,214.8	371.1	5,567.2	367.9	5,519.1	208.6	3,129.6	305.1	4,575.8	295.1	4,426.9	326.8	4,902.7		
8	275.6	4,134.6	271.6	4,073.9	370.2	5,553.1	330.9	4,963.1	375.6	5,634.0	373.1	5,597.0	413.4	6,201.1	332.7	4,990.9	319.4	4,791.2	300.9	4,513.8	319.6	4,793.8	315.2	4,727.7	333.2	4,997.8		
9	279.2	4,188.0	252.0	3,780.7	352.0	5,280.2	353.9	5,309.1	332.1	4,981.0	410.2	6,153.2	355.4	5,330.6	289.2	4,337.7	411.0	6,164.9	208.1	3,121.3	310.2	4,652.9	306.9	4,603.1	321.7	4,825.2		
10	260.1	3,901.3	288.7	4,330.0	362.8	5,441.7	389.7	5,846.0	405.4	6,080.5	437.8	6,566.6	331.7	4,975.1	259.4	3,891.0	246.6	3,699.0	272.0	4,080.7	273.3	4,100.1	315.4	4,730.7	320.2	4,803.6		
11	250.0	3,750.2	263.6	3,954.0	337.9	5,068.2	393.9	5,908.4	411.5	6,172.3	419.8	6,297.7	328.6	4,929.5	272.6	4,088.8	390.0	5,850.6	257.8	3,866.6	254.1	3,811.7	284.3	4,263.8	322.0	4,830.2		
12	239.0	3,584.9	263.8	3,957.5	316.7	4,751.1	368.8	5,532.1	367.2	5,508.4	457.0	6,854.6	409.0	6,135.7	290.7	4,360.6	310.8	4,662.5	280.0	4,199.4	291.3	4,370.2	291.6	4,373.8	323.8	4,857.6		
13	279.3	4,189.7	310.7	4,660.9	314.0	4,710.2	332.1	4,981.2	87.0	1,304.3	378.3	5,674.2	377.2	5,658.0	345.5	5,182.5	366.8	5,501.8	264.7	3,970.1	288.7	4,330.0	279.3	4,189.0	302.0	4,529.3		
14	225.8	3,387.2	318.8	4,782.4	301.6	4,523.8	335.8	5,037.6	332.3	4,984.4	369.9	5,548.0	295.3	4,429.3	410.9	6,162.8	298.7	4,480.5	327.1	4,905.8	226.6	3,398.9	311.8	4,676.3	312.9	4,693.1		
15	288.2	4,322.6	342.4	5,136.6	287.6	4,314.6	354.5	5,316.0	367.2	5,508.2	427.8	6,417.0	329.8	4,946.8	382.6	5,738.4	377.3	5,659.0	278.5	4,177.9	-	-	262.2	3,932.4	308.2	4,622.5		
16	306.0	4,590.1	318.8	4,781.7	340.5	5,107.3	350.1	5,251.6	369.7	5,545.0	458.1	6,871.0	333.0	4,994.5	433.5	6,502.0	256.9	3,853.3	308.0	4,620.5	-	-	307.4	4,611.4	315.2	4,727.4		
17	308.0	4,620.4	349.0	5,235.1	354.1	5,312.1	258.0	3,869.3	368.9	5,533.7	428.8	6,432.0	453.6	6,803.4	271.7	4,075.9	242.8	3,641.7	255.2	3,827.5	-	-	306.1	4,590.8	299.7	4,495.2		
18	297.1	4,455.9	360.8	5,411.3	347.7	5,215.5	355.4	5,331.7	269.4	4,041.7	386.5	5,797.9	431.1	6,466.4	189.7	2,846.0	231.8	3,477.2	189.7	2,845.3	326.7	4,900.5	290.2	4,353.3	306.3	4,595.2		
19	257.6	3,864.7	364.3	5,464.9	317.7	4,765.4	276.6	4,149.1	326.0	4,889.3	406.7	6,100.1	438.6	6,578.9	366.1	5,491.2	299.6	4,493.8	340.9	5,113.0	276.1	4,141.6	278.5	4,177.4	329.1	4,935.8		
20	254.8	3,821.5	365.8	5,486.5	351.9	5,278.8	367.8	5,516.3	323.3	4,850.2	360.4	5,405.6	446.8	6,702.2	108.4	1,626.2	295.7	4,435.7	352.9	5,293.3	253.5	3,801.9	294.3	4,414.9	314.6	4,719.4		
21	182.8	2,741.3	335.6	5,034.2	323.3	4,849.6	348.7	5,230.4	364.9	5,473.0	423.2	6,347.9	395.3	5,929.9	237.7	3,565.7	234.9	3,524.0	301.6	4,524.0	320.7	4,810.7	270.9	4,063.8	311.6	4,674.5		
22	248.7	3,731.0	348.9	5,233.0	342.1	5,131.1	347.5	5,212.9	323.0	4,844.5	444.1	6,660.9	411.1	6,166.3	329.3	4,939.5	198.7	2,980.1	212.7	3,190.8	290.9	4,363.9	298.9	4,483.9	316.3	4,744.8		
23	254.7	3,820.6	341.6	5,123.9	329.7	4,945.1	385.0	5,774.9	455.1	6,826.5	428.8	6,432.3	379.5	5,692.1	284.1	4,261.4	267.3	4,009.2	341.1	5,116.3	272.8	4,092.1	277.8	4,166.6	334.8	5,021.7		
24	251.6	3,774.5	330.5	4,957.7	315.1	4,726.0	385.5	5,783.0	459.7	6,896.0	409.1	6,136.3	349.9	5,248.6	346.5	5,197.3	161.5	2,422.8	371.4	5,570.5	311.2	4,668.1	287.1	4,305.8	331.6	4,973.9		
25	162.1	2,431.6	341.6	5,124.4	265.5	3,982.6	333.4	5,000.6	346.5	5,198.0	317.4	4,761.3	334.9	5,023.4	456.8	6,852.3	226.0	3,389.7	370.0	5,550.7	282.1	4,231.8	267.9	4,018.0	308.7	4,630.4		
26	252.5	3,787.7	355.6	5,333.6	295.5	4,432.9	333.5	5,002.4	341.1	5,116.5	339.6	5,094.0	363.9	5,457.9	422.2	6,333.3	286.6	4,299.1	321.1	4,816.9	257.0	3,855.3	237.8	3,567.2	317.2	4,758.1		
27	278.8	4,181.4	348.7	5,230.4	312.3	4,684.9	340.6	5,108.9	328.2	4,923.1	264.2	3,963.0	354.2	5,312.7	466.1	6,992.0	330.6	4,959.1	347.3	5,209.0	255.2	3,828.2	278.3	4,175.1	325.4	4,880.7		
28	290.4	4,355.6	311.9	4,678.0	274.2	4,112.8	370.2	5,552.8	350.0	5,249.4	332.1	4,981.0	450.0	6,750.0	450.2	6,753.0	289.1	4,335.8	336.8	5,051.5	272.4	4,086.3	270.7	4,059.9	333.1	4,997.2		
29	319.0	4,784.9			375.7	5,635.9	370.6	5,559.3	425.2	6,378.5	288.0	4,320.6	368.5	5,527.2	383.5	5,752.9	367.4	5,511.6	338.9	5,093.2	283.6	4,254.1	284.8	4,271.6	345.9	5,189.1		
30	296.3	4,444.4			345.5	5,182.1	393.8	5,907.5	328.7	4,930.1	316.8	4,751.3	251.3	3,769.4	307.1	4,606.1	218.2	3,273.5	309.0	4,634.8	252.9	3,793.6	269.2	4,038.5	299.0	4,484.7		
31	265.4	3,981.0			332.1	4,981.7			267.0	4,004.9			256.0	3,840.4	348.8	5,231.7			306.1	4,592.1			269.3	4,039.1	292.1	4,381.6		
Average	264.7	3,970.3	308.3	4,623.8	320.9	4,813.4	342.2	5,133.2	355.5	5,333.1	381.0	5,714.6	348.8	5,232.3	332.8	4,992.4	301.2	4,517.4	299.8	4,497.7	245.5	4,081.7	285.2	4,277.8	315.3	4,766.5		
Avg. max	622.8		671.3		711.0		754.4		786.7		803.5		772.8		783.0		732.6		721.9		600.0		673.8		719.5			

remark : 1 W / m² = 0.917 Btu / hr.ft² = 3.6 kJ / m²

radiation)

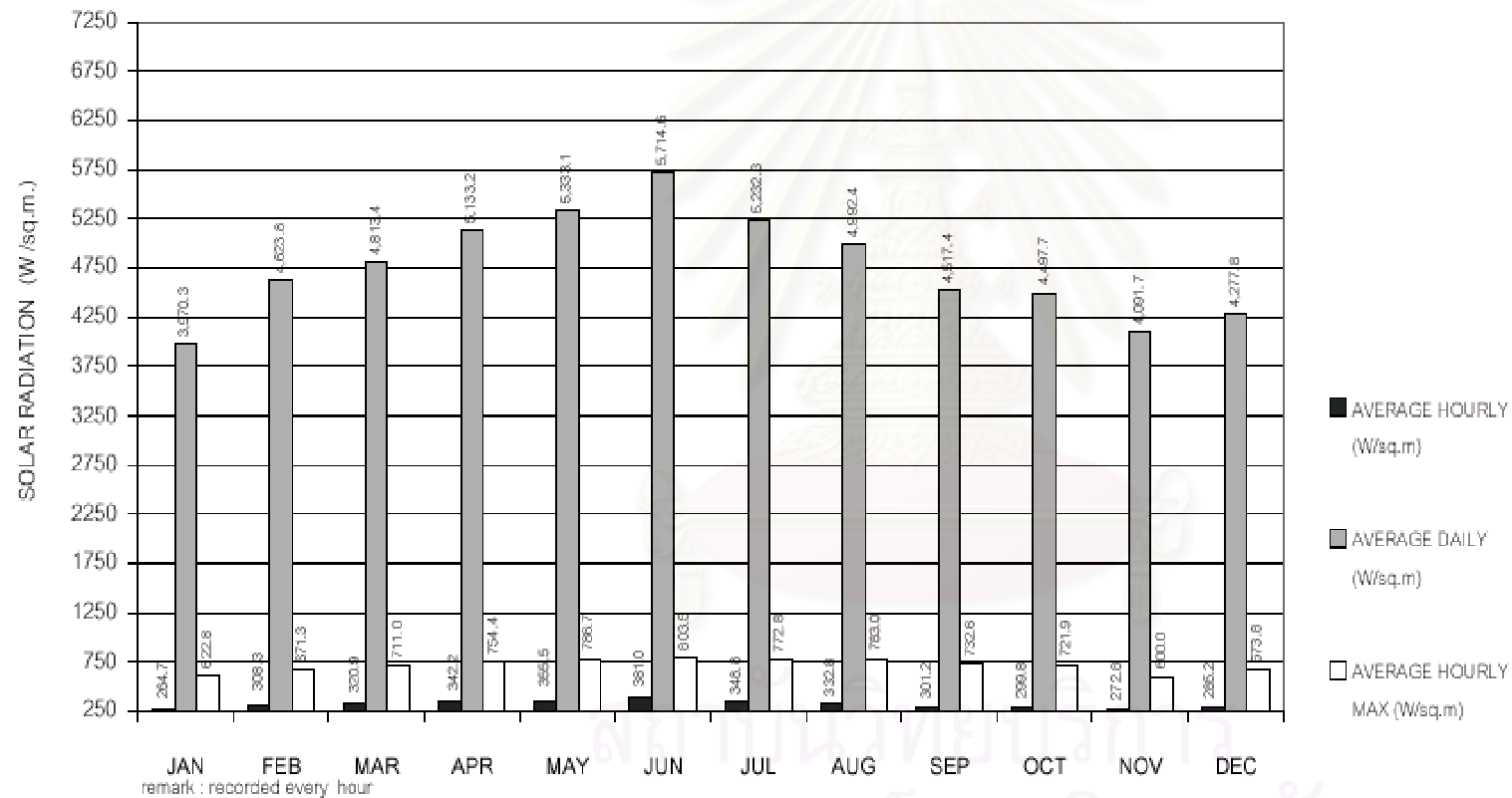


แผนภูมิปริมาณรังสีรวมดวงอาทิตย์ (solar radiation)

SOLAR RADIATION (W/sq.m.)

ONE YEAR ROUND 1997-1998 (2540-2541)

Station : NAKORN SAWAN



จุฬาลงกรณ์มหาวิทยาลัย

ตารางแสดงผลข้อมูลปริมาณน้ำฝน (rain fall)

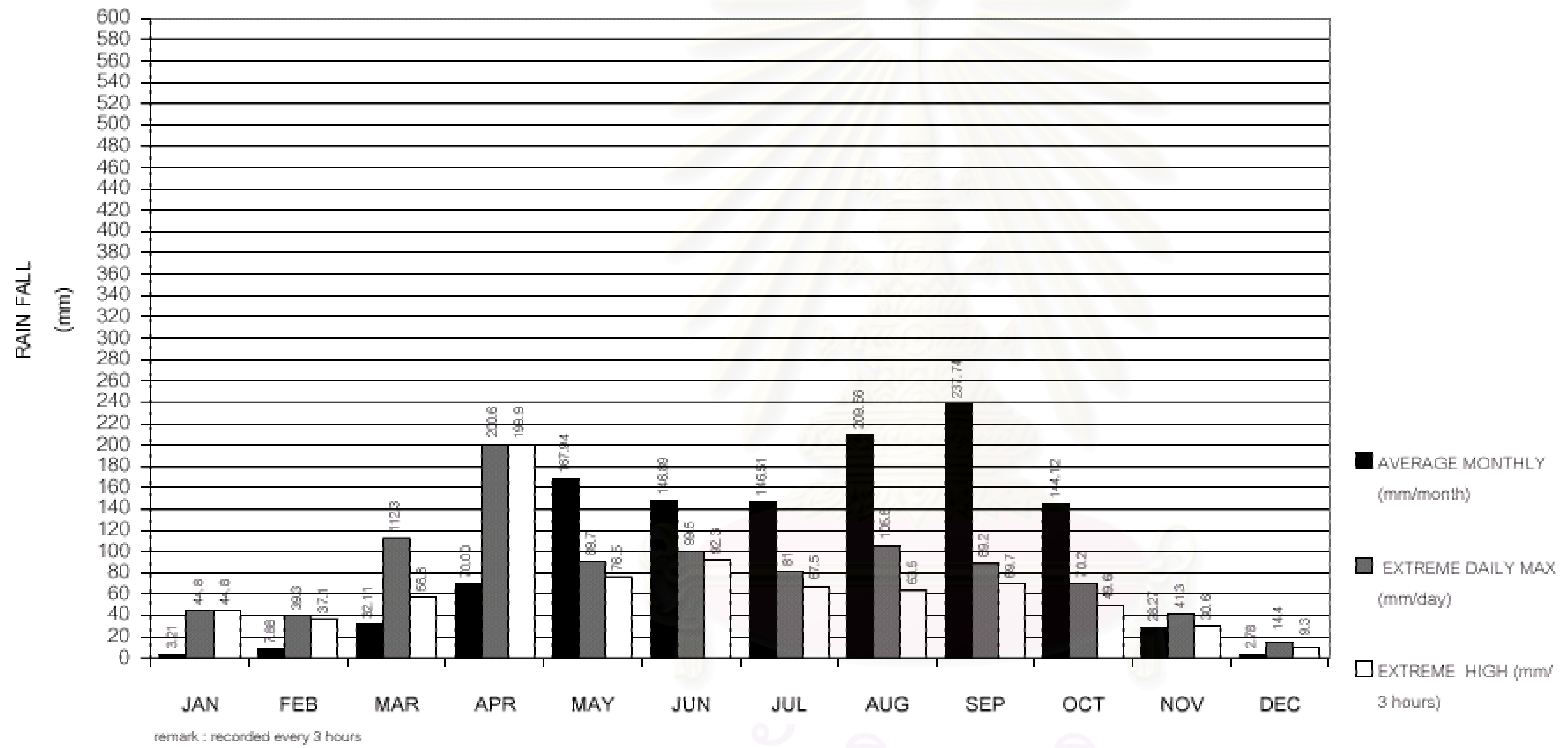
RAIN FALL (mm) 1981 - 1998 (2524 - 2541)													Station : NAKHONSAWAN	
MONTH	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL	
DAY	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	
1	0.0	0.0	0.3	3.9	1.1	10.0	3.8	3.3	2.4	4.2	1.1	0.0	30.0	
2	0.0	0.0	3.6	0.0	2.8	6.2	3.0	9.0	12.0	3.2	0.4	0.1	40.2	
3	0.0	0.0	0.5	0.4	2.1	0.6	10.8	10.2	5.3	2.4	3.2	0.3	35.8	
4	2.9	0.0	0.0	2.4	4.3	8.7	8.6	9.0	10.9	9.0	2.2	0.0	57.9	
5	0.0	0.0	1.0	0.5	9.8	8.6	6.7	5.3	1.1	9.0	2.6	0.0	44.5	
6	0.0	0.0	2.4	2.3	4.4	11.3	4.9	4.9	7.0	3.9	1.3	0.0	42.4	
7	0.0	0.0	1.2	0.4	9.3	4.3	4.3	8.1	12.3	6.7	0.3	0.1	47.1	
8	0.0	0.0	0.0	1.0	3.5	4.2	8.0	8.5	5.2	5.9	1.7	0.0	38.1	
9	0.0	0.0	0.5	0.0	9.1	8.2	3.7	8.9	5.2	6.3	1.8	0.0	43.7	
10	0.0	0.1	0.0	0.0	7.8	4.6	5.3	13.3	6.4	2.3	0.3	0.0	40.1	
11	0.0	0.0	0.0	0.0	6.2	3.8	5.1	7.6	7.9	9.7	0.2	0.0	40.4	
12	0.0	0.0	0.1	0.6	9.1	2.1	4.2	4.9	5.8	6.1	2.2	0.0	35.2	
13	0.0	0.0	0.8	1.7	1.2	1.8	8.2	7.2	4.1	6.0	0.5	0.0	31.6	
14	0.0	1.8	7.6	13.8	7.2	6.0	2.6	9.8	4.7	1.8	0.4	0.0	55.7	
15	0.0	1.1	1.4	2.8	5.9	7.5	9.0	2.2	6.3	1.5	2.6	0.0	40.3	
16	0.0	0.0	0.0	0.0	4.5	3.7	3.5	3.5	8.2	8.0	0.8	0.0	32.2	
17	0.0	0.1	0.0	0.7	0.9	5.1	3.0	6.5	9.3	8.2	0.1	0.0	33.9	
18	0.0	0.4	0.1	3.9	3.0	1.5	3.7	4.6	13.9	3.4	0.5	0.0	35.0	
19	0.0	0.0	0.0	1.2	4.4	10.7	5.2	5.6	13.7	13.2	0.7	0.0	54.6	
20	0.0	1.1	0.0	3.5	2.8	1.8	4.5	8.7	13.0	3.5	0.1	0.0	39.1	
21	0.0	0.0	0.0	1.3	1.7	2.3	2.9	11.9	7.6	7.6	1.3	0.0	36.6	
22	0.0	2.2	0.0	1.3	10.7	2.9	3.3	2.9	10.9	3.9	0.3	0.0	38.5	
23	0.0	0.0	3.0	3.5	8.3	3.0	3.1	10.0	10.4	0.9	0.0	0.0	42.0	
24	0.0	0.0	0.4	4.0	5.8	3.5	3.6	11.4	8.2	0.6	0.0	0.8	38.3	
25	0.1	0.0	1.1	0.2	9.8	2.7	2.7	8.5	8.5	3.7	0.0	0.0	37.3	
26	0.2	0.6	0.1	6.6	8.0	4.1	3.3	6.1	10.5	2.6	0.0	0.0	42.0	
27	0.0	0.3	3.4	1.6	4.5	0.8	3.5	2.7	7.7	3.1	0.2	0.0	27.7	
28	0.0	0.1	2.7	4.8	9.4	4.4	3.5	4.9	7.2	3.0	1.7	0.0	41.9	
29	0.0	0.0	0.8	0.5	1.6	3.0	6.2	3.2	9.6	1.4	1.8	0.6	28.6	
30	0.0	0.0	0.0	7.0	4.5	9.7	3.7	3.9	2.5	1.7	0.1	0.0	33.2	
31	0.0	0.0	1.0	0.0	4.1	0.0	2.8	3.0	0.0	1.6	0.0	0.7	13.2	
Monthly	3.2	7.9	32.1	70.0	167.9	146.9	146.5	209.6	237.7	144.1	28.3	2.8	1,197.0	
Daily record high	44.8	39.3	112.3	200.6	89.7	99.5	81.0	105.5	89.2	70.2	41.3	14.4	200.6	
3 hr. Extremes	44.8	37.1	56.8	199.9	76.5	92.3	67.5	63.5	69.7	49.6	30.6	9.3	199.9	
No. of rainy days	1	2	2	5	15	16	17	20	22	17	6	1	125	

จุฬาลงกรณ์มหาวิทยาลัย

แผนภูมิปริมาณน้ำฝน (rain fall)

RAIN FALL (mm) 1981-1998 (2524-2541)

Station : NAKHON SAWAN



สถาบันวิทยบริการ
 จุฬาลงกรณ์มหาวิทยาลัย

ตารางแสดงผลข้อมูลค่าเฉลี่ยอัตราการระเหยของน้ำรายวัน (evaporation)

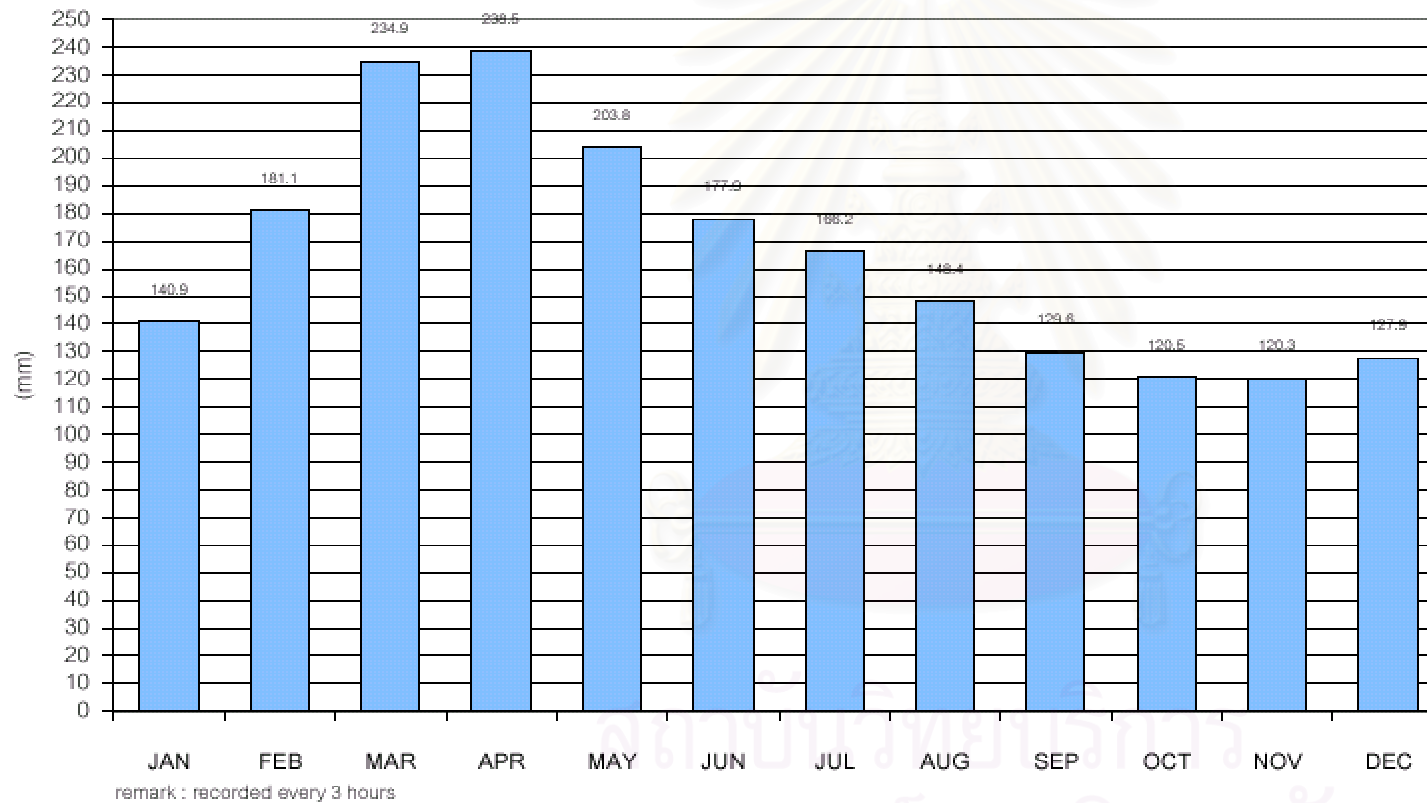
EVAPORATION (mm) 1981 - 1998 (2524 - 2541)													Station : NAKHONSAWAN
MONTH	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	ANNUAL
DAY	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
1	3.9	5.2	6.9	7.7	7.4	7.0	5.9	5.2	4.4	3.9	3.9	4.4	65.9
2	4.2	5.5	6.4	8.0	8.5	6.6	5.7	5.0	4.9	3.8	3.9	3.5	65.9
3	4.1	5.3	6.8	8.3	8.3	5.6	6.1	5.4	4.5	3.9	3.7	4.4	66.3
4	4.5	5.7	7.0	7.8	8.2	5.8	6.0	4.7	5.0	4.3	3.6	4.2	66.9
5	4.3	5.5	7.2	7.8	7.2	5.9	5.3	4.9	4.7	4.2	4.1	4.2	65.2
6	4.6	5.7	6.6	7.4	7.3	5.7	5.7	5.3	4.9	4.3	4.2	4.3	66.1
7	4.7	5.6	6.6	8.1	6.5	5.2	5.5	5.2	4.5	4.3	4.2	4.1	64.6
8	4.5	5.7	6.9	8.0	6.7	5.4	5.4	5.2	4.1	4.2	4.2	4.1	64.3
9	4.3	5.4	7.1	8.4	7.5	5.2	5.6	5.4	4.4	3.6	4.1	4.1	65.2
10	4.5	6.0	6.9	8.2	6.7	5.6	5.7	5.4	4.4	3.7	4.0	3.8	64.8
11	3.9	5.8	7.7	8.4	7.3	6.1	5.1	4.7	4.6	3.9	4.3	4.0	65.9
12	4.6	5.9	7.7	8.1	7.2	6.3	5.3	4.9	4.1	4.3	3.8	4.1	66.3
13	4.4	6.0	7.8	7.8	6.1	5.7	5.0	4.9	4.1	3.8	3.7	4.1	63.4
14	4.7	6.4	8.1	8.2	6.0	6.2	5.1	5.3	4.0	3.8	3.8	4.1	65.8
15	4.2	6.9	7.3	8.6	6.1	6.0	5.3	4.6	4.1	3.6	3.8	4.2	64.6
16	4.8	6.7	7.6	7.8	5.9	6.4	5.5	4.6	3.9	3.9	3.7	4.0	64.8
17	4.6	6.8	7.9	8.1	6.3	6.3	5.6	4.4	4.2	3.3	4.1	4.4	65.9
18	4.7	6.5	8.1	8.2	6.3	6.2	5.1	4.2	4.5	3.7	4.1	4.0	65.5
19	4.5	6.7	8.4	8.2	6.1	6.2	5.5	4.5	4.1	3.5	4.2	4.0	65.9
20	4.4	6.2	8.5	7.7	6.3	5.7	5.5	4.1	4.5	3.7	4.4	4.4	65.5
21	4.9	6.9	7.8	7.7	5.9	6.3	4.9	4.9	4.1	4.2	4.2	4.3	66.2
22	4.8	6.9	8.1	7.4	6.9	6.6	4.6	4.9	4.7	4.1	3.9	4.1	67.2
23	4.7	6.7	8.4	7.9	6.6	5.9	4.9	4.7	3.6	3.4	4.4	4.4	65.6
24	4.6	6.6	8.0	8.3	6.5	6.0	4.9	4.3	4.1	3.9	4.2	4.2	65.5
25	4.6	7.0	7.8	7.7	6.0	6.2	5.2	4.9	4.3	3.7	4.3	3.7	65.3
26	4.4	6.8	8.2	7.7	5.7	6.1	5.2	5.0	4.3	3.8	4.0	4.5	65.7
27	5.1	6.4	8.6	6.9	5.4	4.7	5.1	4.4	3.7	3.5	3.8	4.2	61.8
28	4.8	7.0	7.6	7.6	5.8	5.1	5.7	4.7	4.9	4.0	3.5	4.2	64.8
29	4.4	7.5	7.3	8.5	5.8	5.7	5.7	4.3	4.2	3.8	3.9	4.0	65.2
30	4.7		8.2	8.0	5.9	6.3	5.2	3.8	3.6	4.4	4.3	3.8	58.3
31	5.5		7.8		5.4		4.9	4.2		3.7		4.1	35.6
AVG. Monthly	140.9	181.1	234.9	258.5	203.8	177.9	166.2	148.4	129.6	120.5	120.3	127.9	1,990.1
Daily Mean	4.5	6.2	7.6	7.9	6.6	5.9	5.4	4.8	4.3	3.9	4.0	4.1	5.4
Extremes	8.5	10.2	12.4	13.7	13.8	11.0	11.4	12.5	9.3	10.4	8.9	7.2	13.8

จุฬาลงกรณ์มหาวิทยาลัย

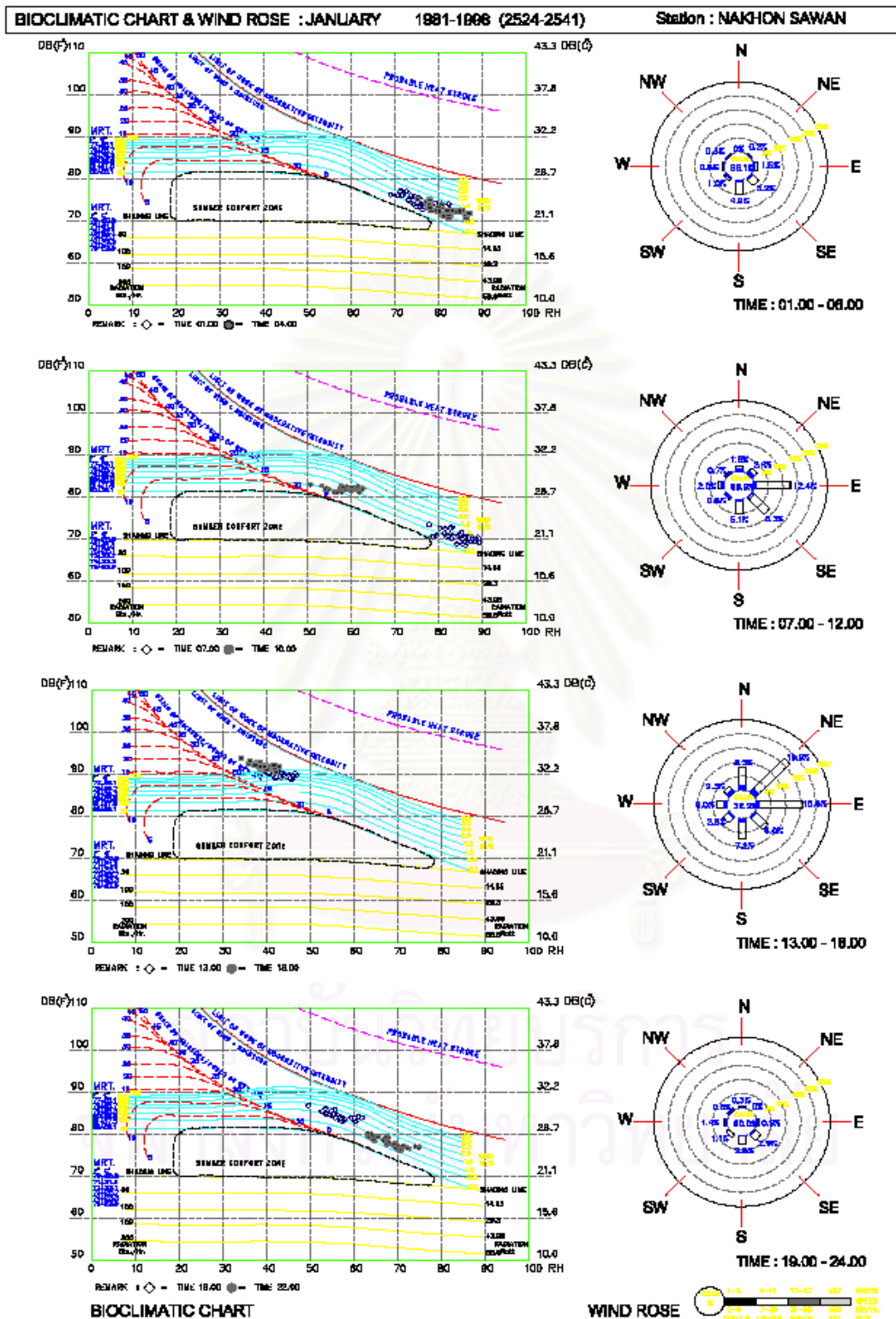
แผนภูมิค่าเฉลี่ยอัตราการระเหยของน้ำรายเดือน (average monthly evaporation from U.S. class "A" pan)

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

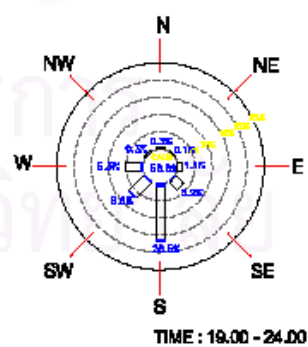
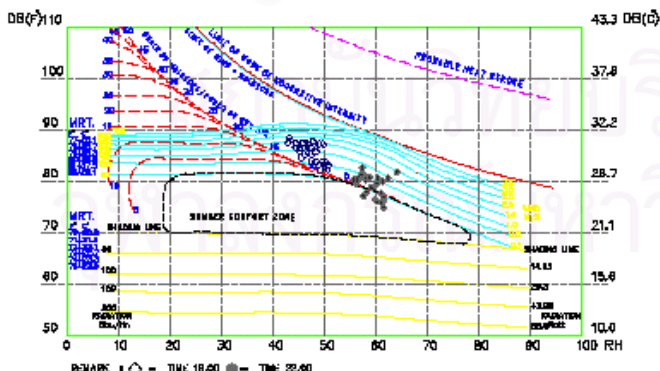
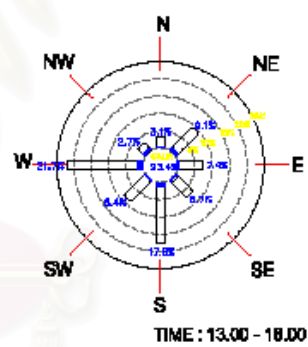
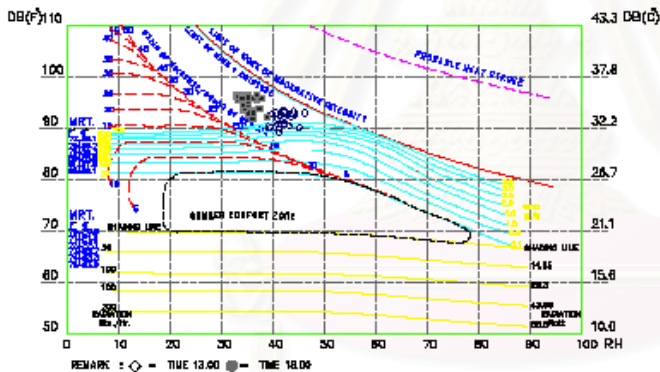
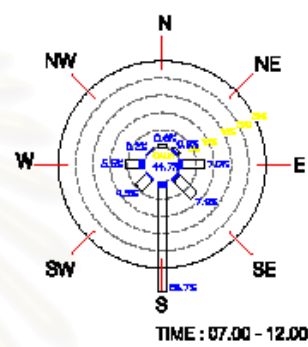
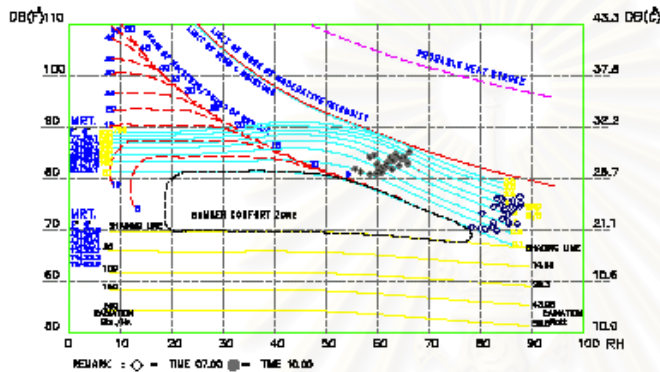
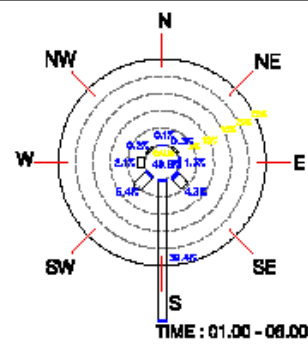
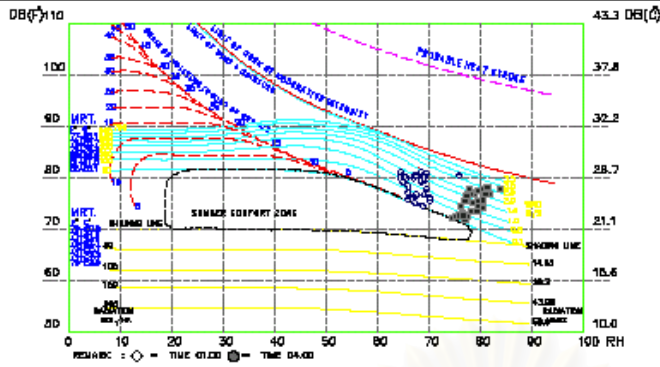
Station : NAKHON SAWAN



แผนภูมิความสัมพันธ์ระหว่างข้อมูลสภาพอากาศในแผนภูมิไบโอไคลเมตริก (bioclimatic chart) กับแผนภูมิแสดงความเร็วและทิศทางที่เกิดลมรายเดือน (wind rose) แยกตามช่วงเวลา



BIOCLIMATIC CHART & WIND ROSE : FEBRUARY 1981-1998 (2624-2641) Station : NAKHON SAWAN

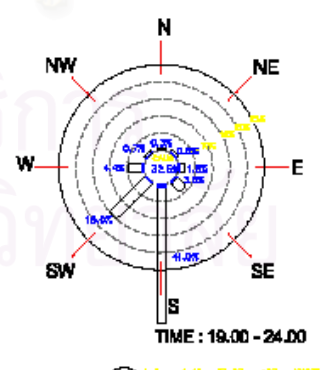
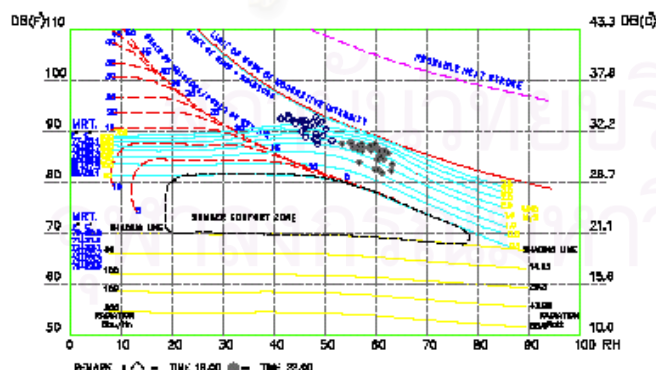
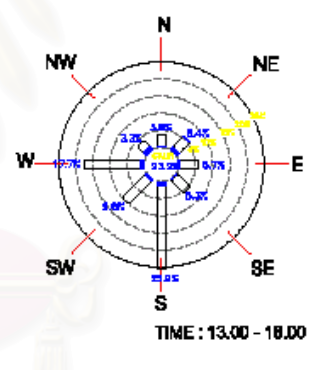
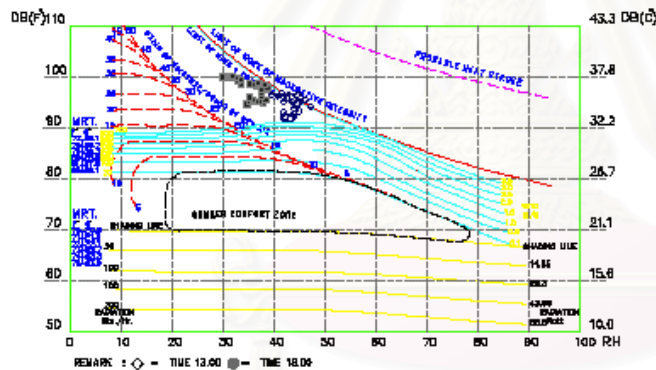
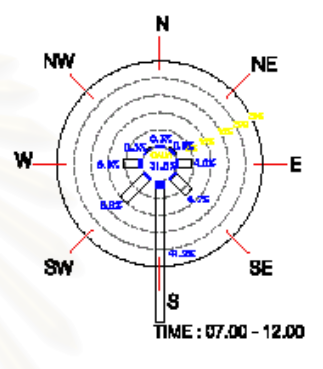
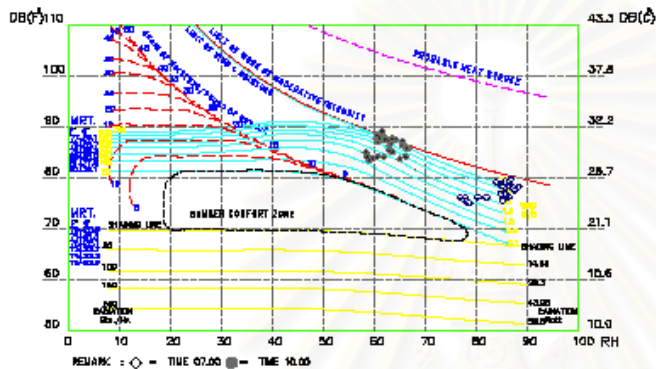
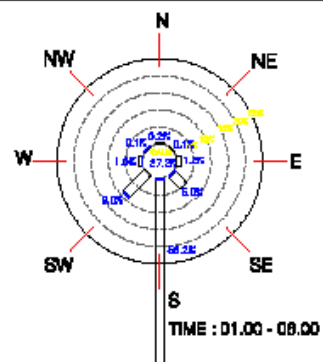
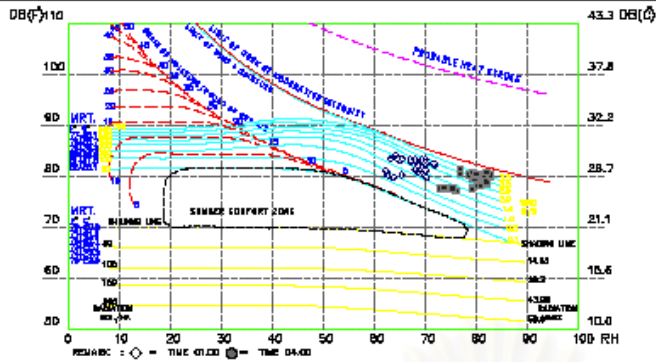


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : MARCH 1981-1998 (2624-2641) Station : NAKHON SAWAN

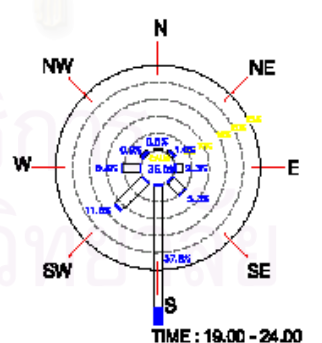
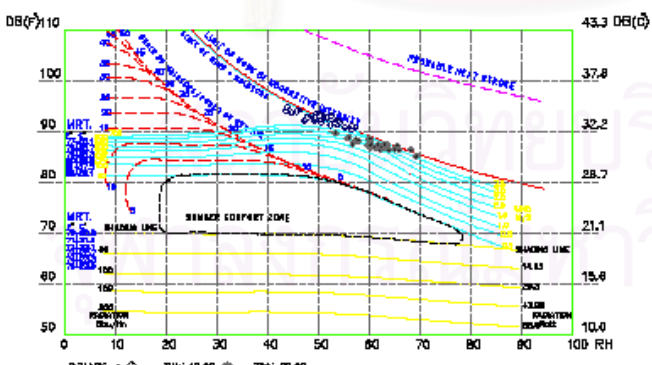
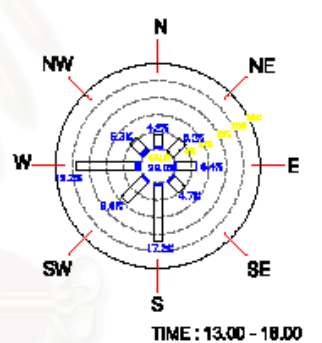
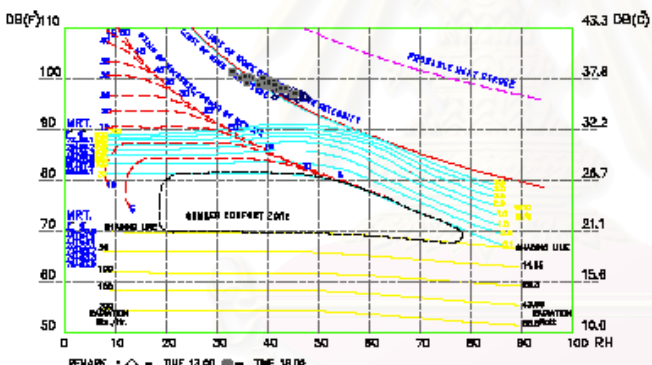
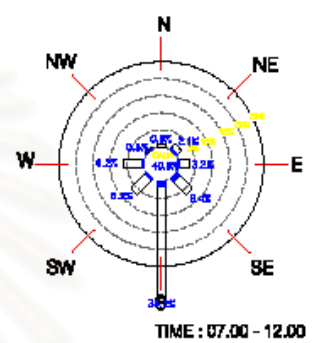
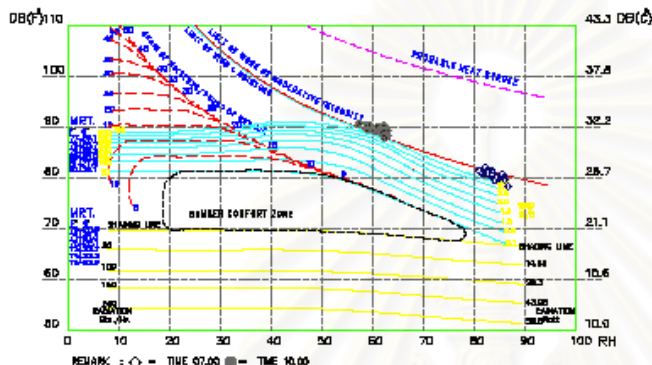
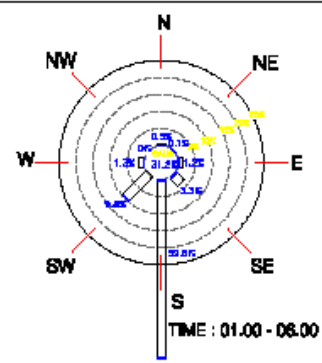
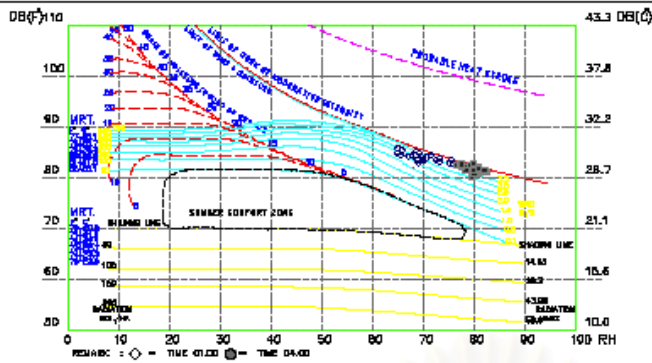


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : APRIL 1981-1998 (2624-2641) Station : NAKHON SAWAN

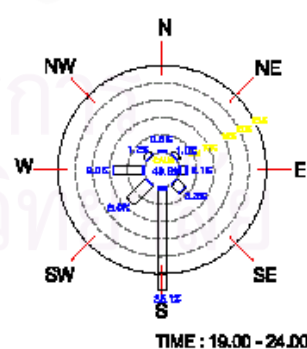
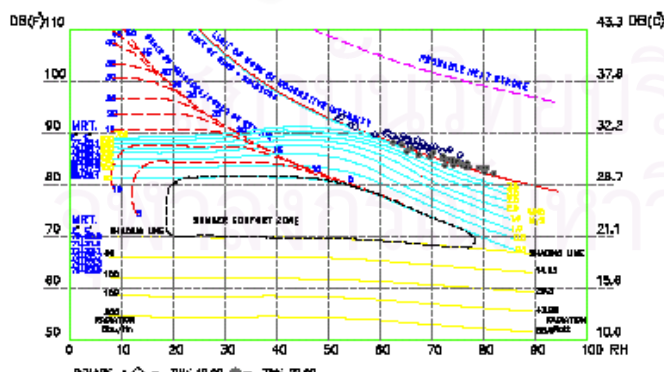
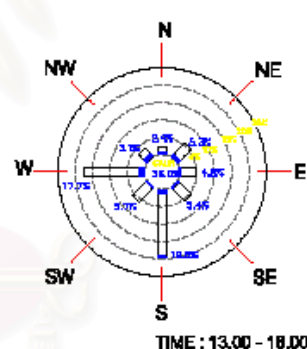
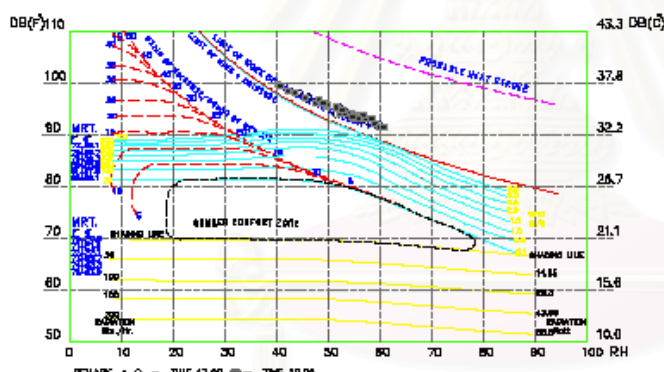
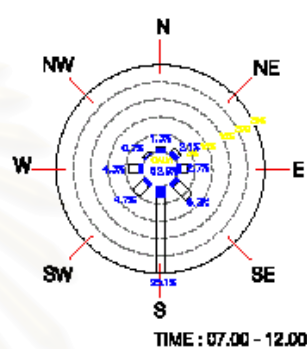
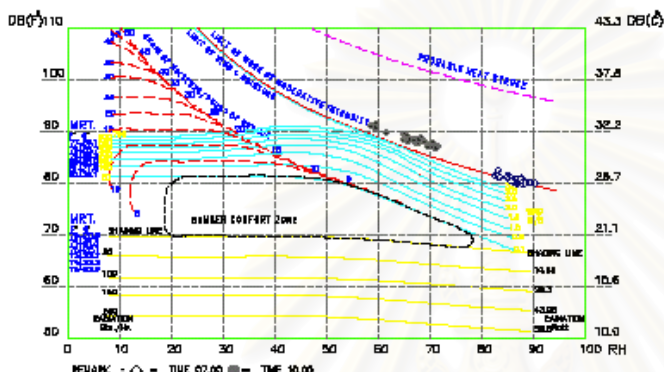
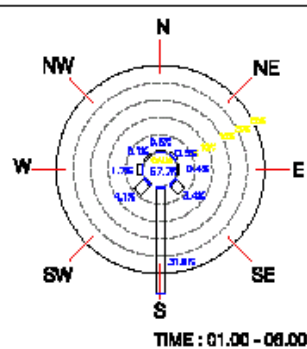
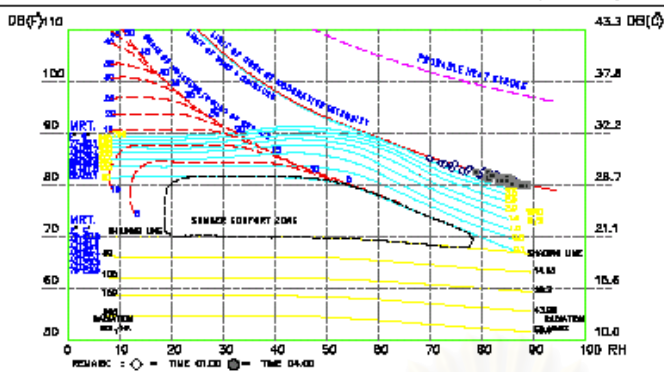


BIOCLIMATIC CHART

WIND ROSE



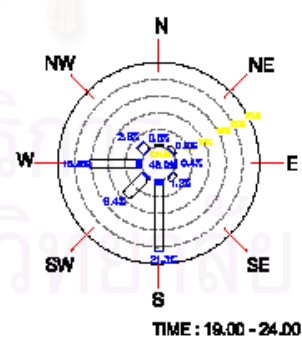
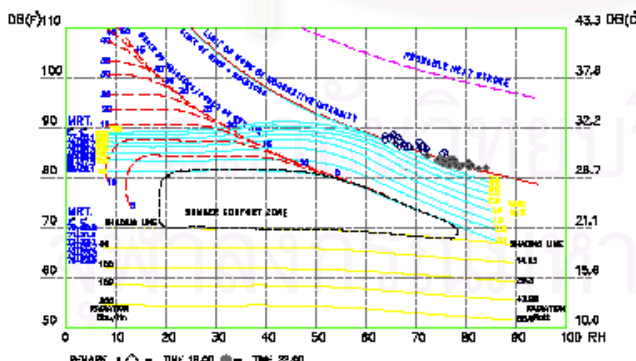
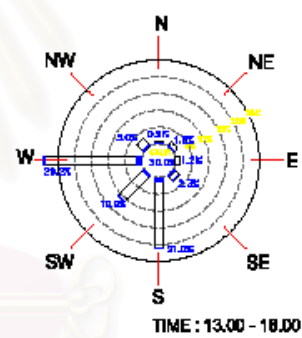
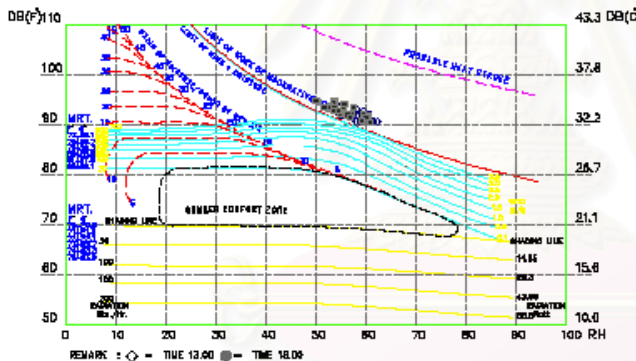
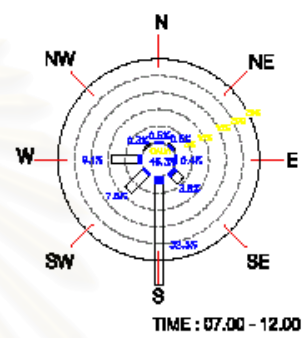
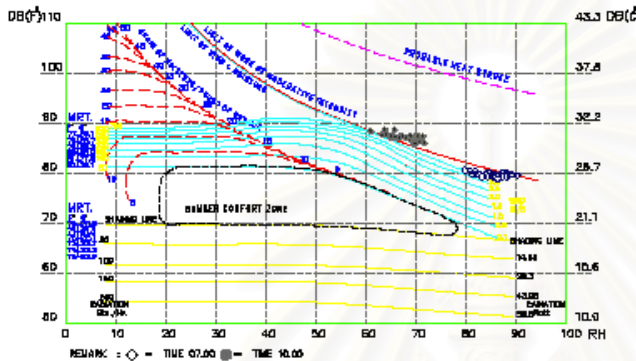
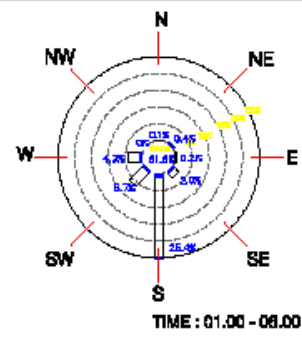
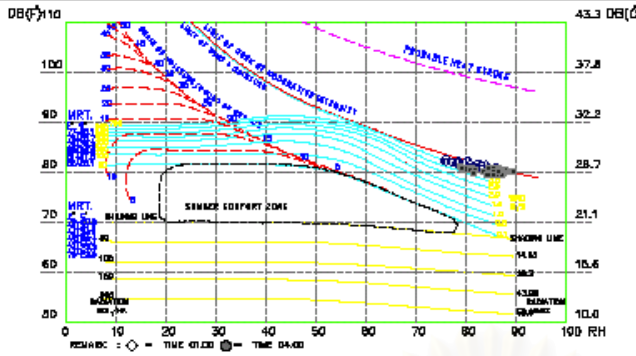
BIOCLIMATIC CHART & WIND ROSE : MAY 1981-1998 (2624-2641) Station : NAKHON SAWAN



BIOCLIMATIC CHART



BIOCLIMATIC CHART & WIND ROSE : JUNE 1981-1998 (2624-2641) Station : NAKHON SAWAN

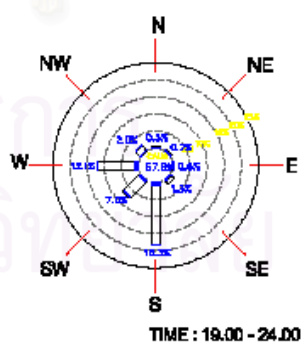
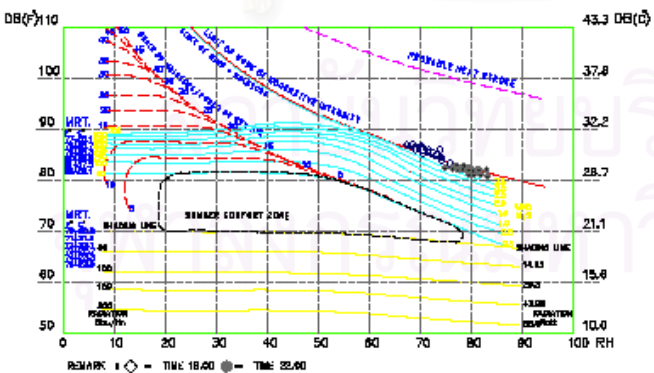
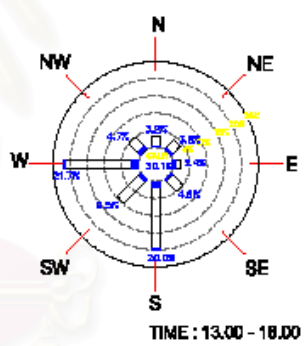
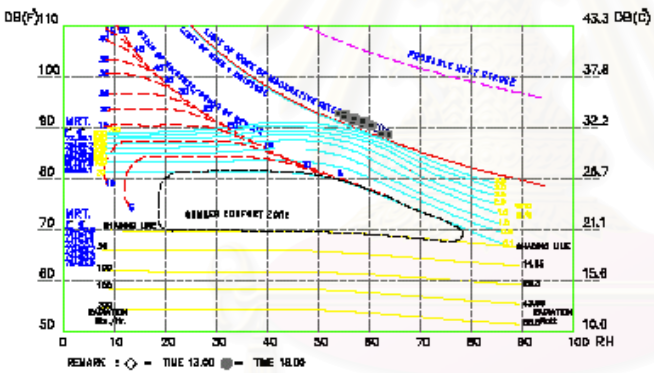
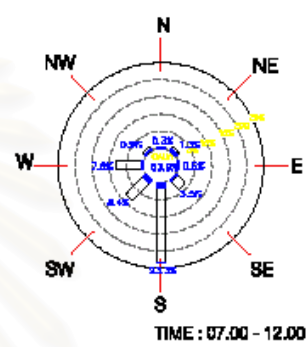
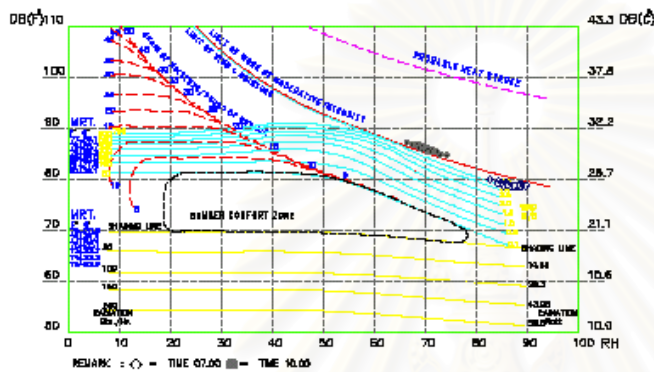
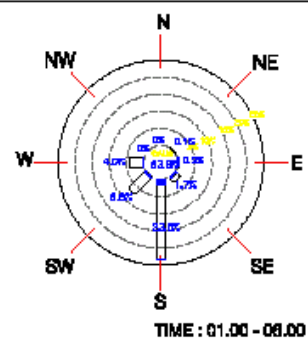
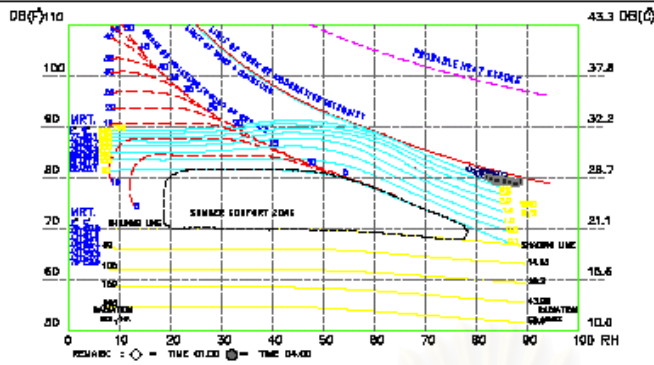


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : JULY 1981-1998 (2624-2641) Station : NAKHON SAWAN

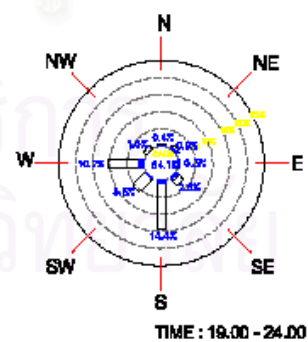
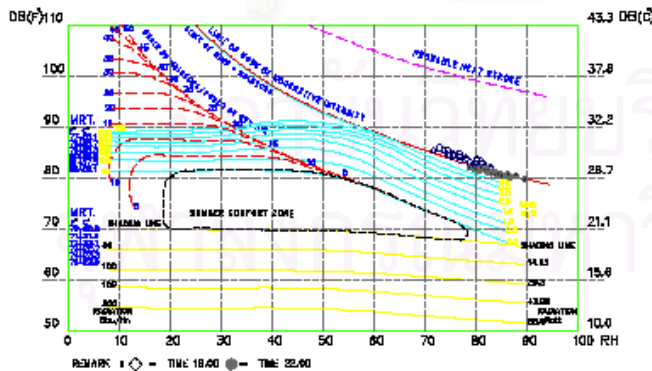
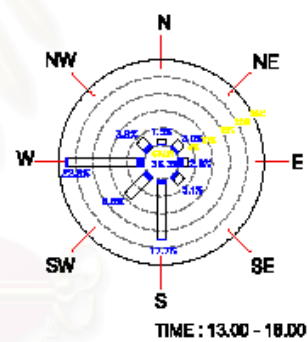
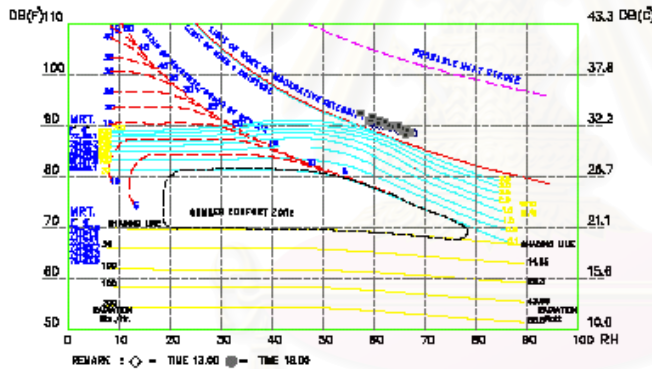
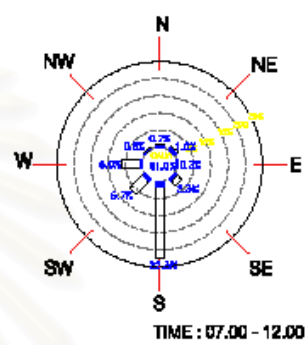
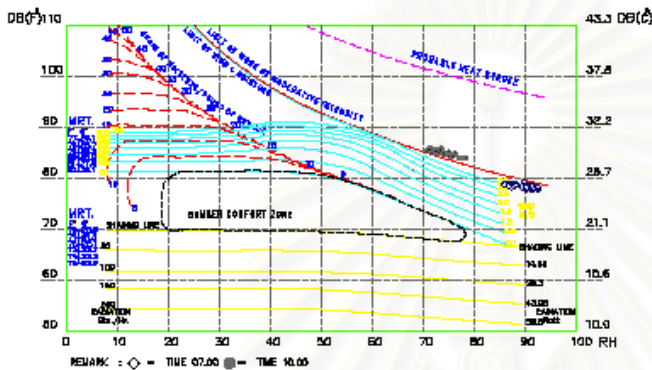
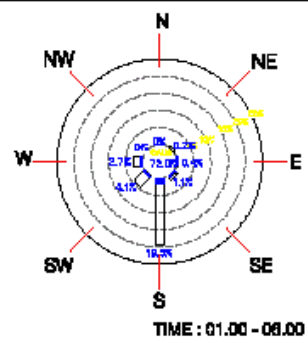
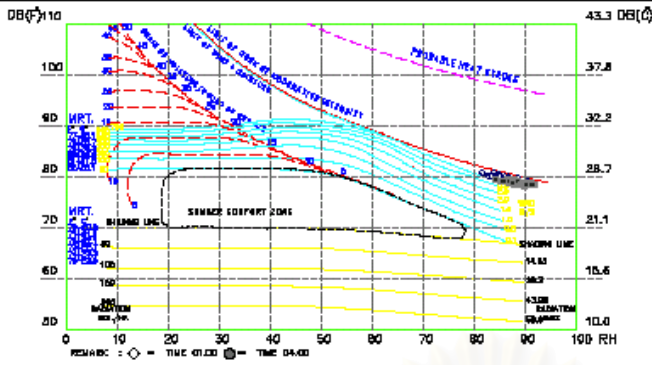


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : AUGUST 1981-1998 (2624-2641) Station : NAKHON SAWAN

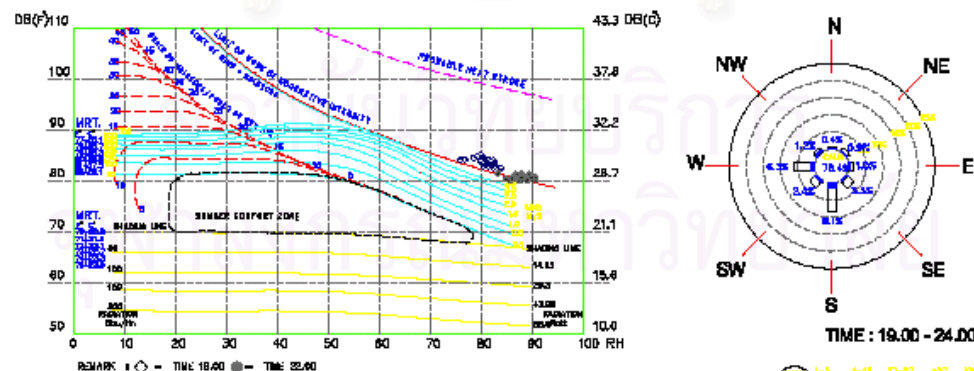
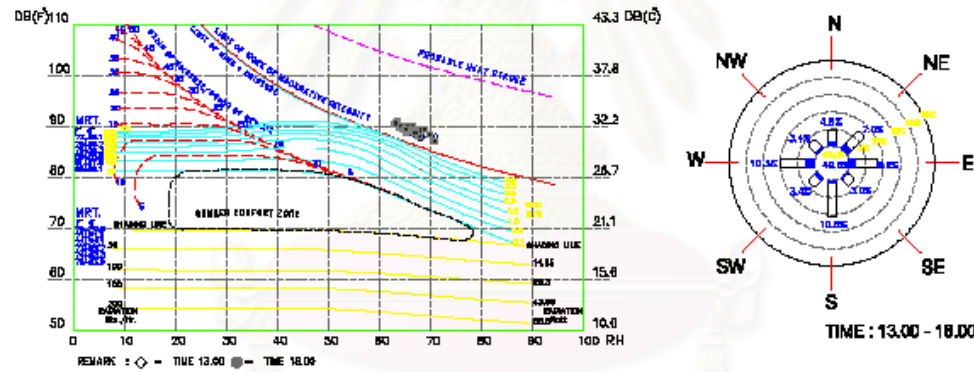
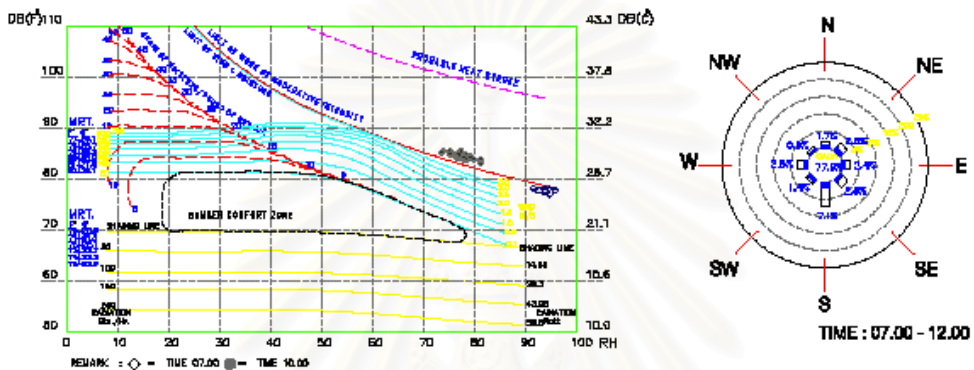
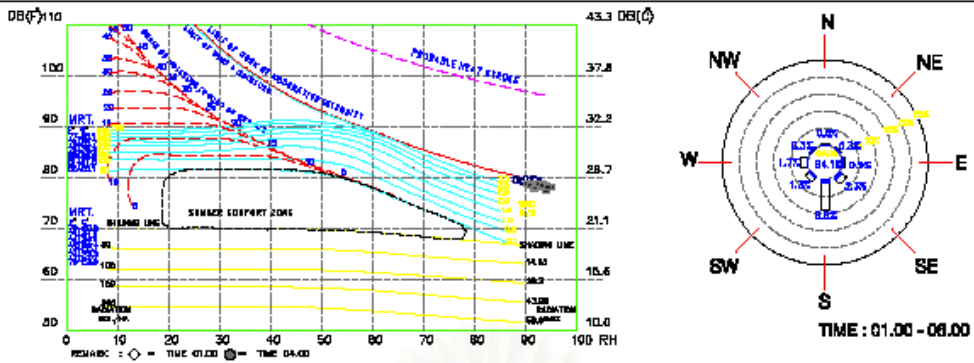


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : SEPTEMBER 1981-1998 (2624-2641) Station : NAKHON SAWAN

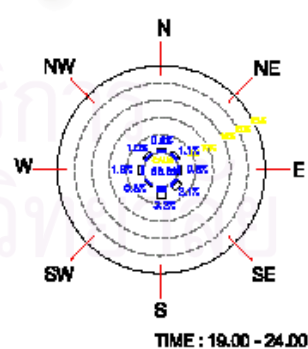
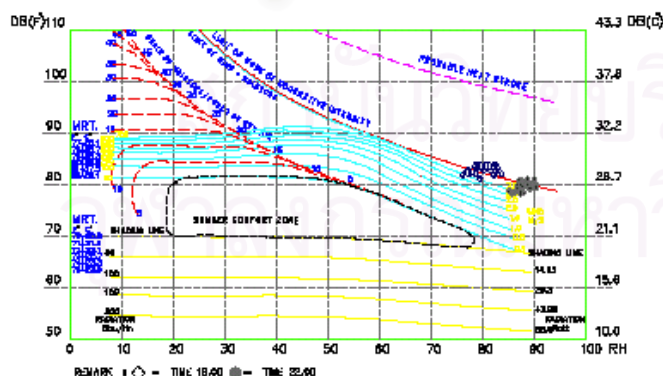
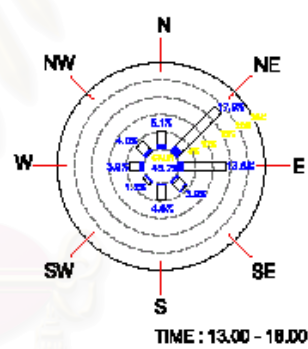
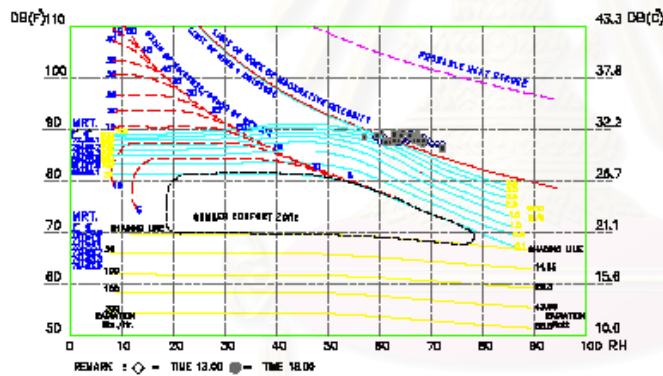
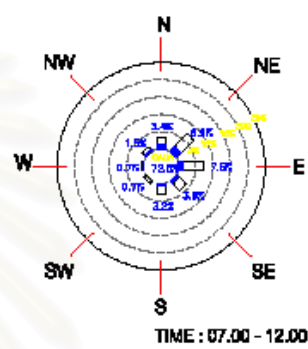
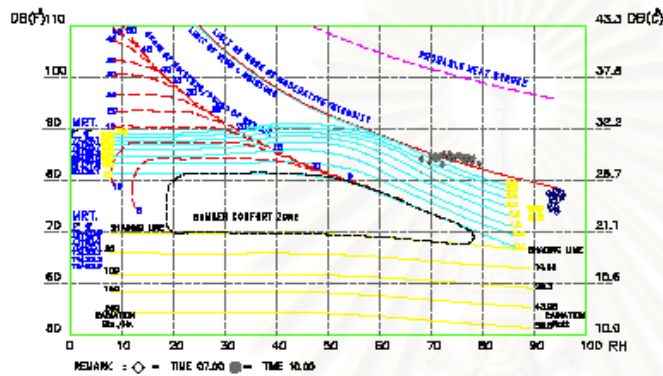
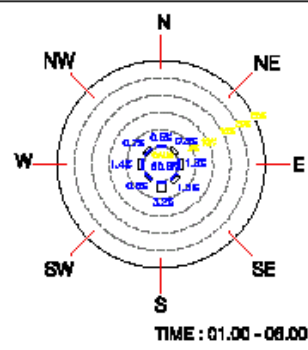
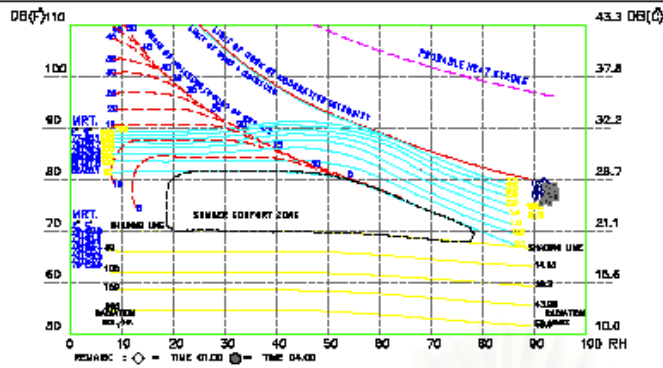


BIOCLIMATIC CHART

WIND ROSE



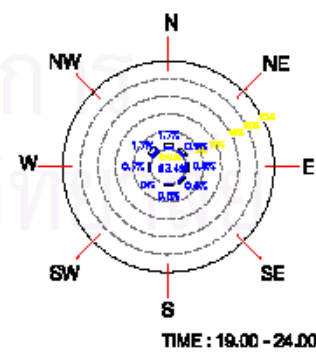
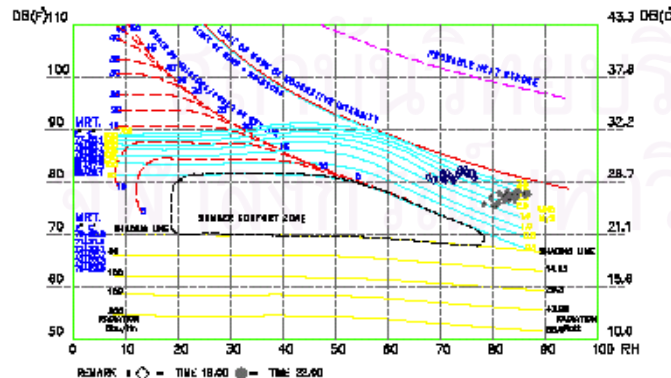
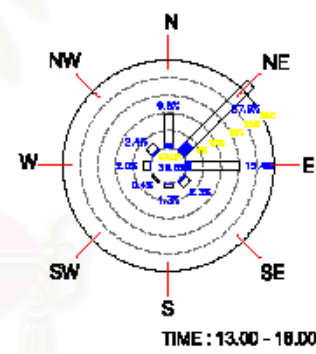
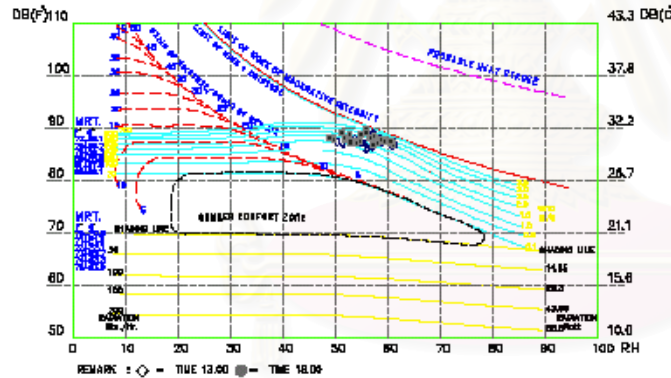
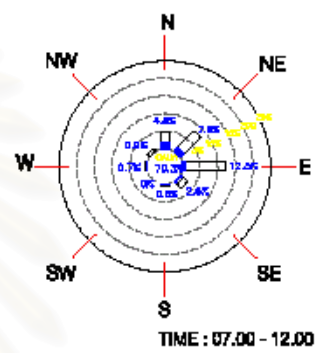
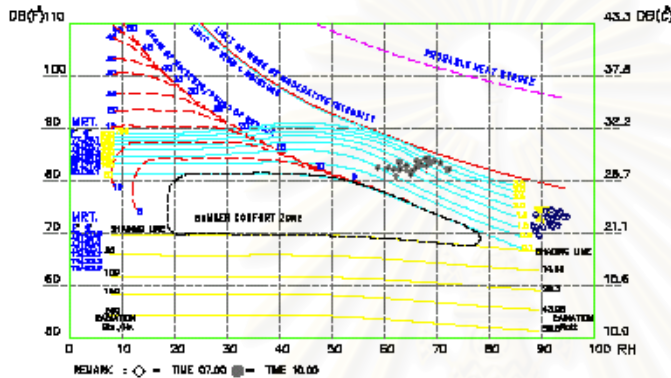
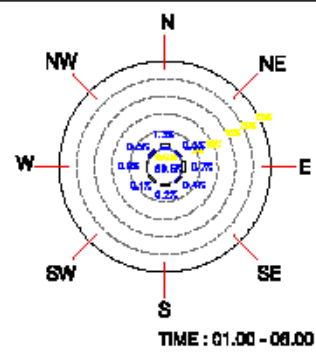
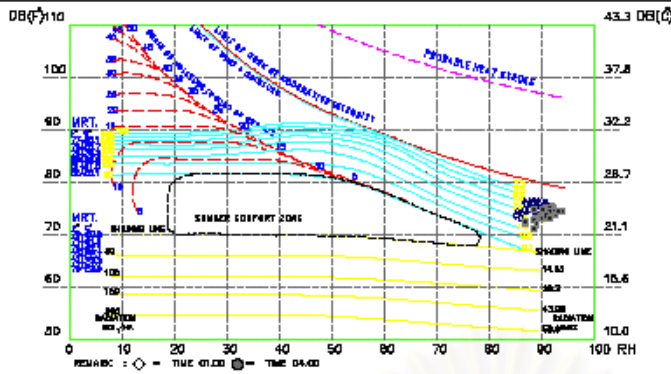
BIOCLIMATIC CHART & WIND ROSE : OCTOBER 1981-1990 (2624-2641) Station : NAKHON SAWAN



BIOCLIMATIC CHART

WIND ROSE

BIOCLIMATIC CHART & WIND ROSE : NOVEMBER 1981-1998 (2624-2641) Station : NAKHON SAWAN

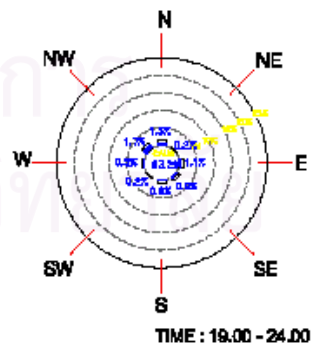
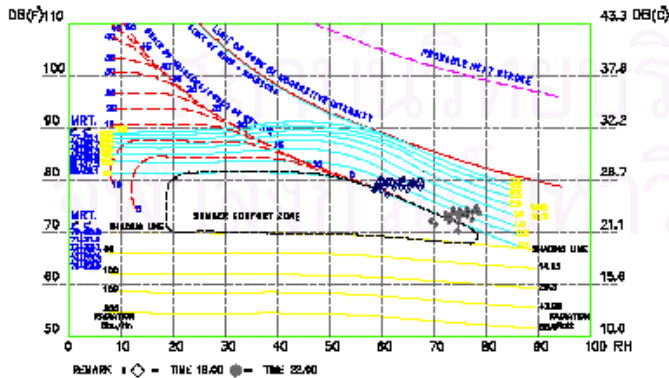
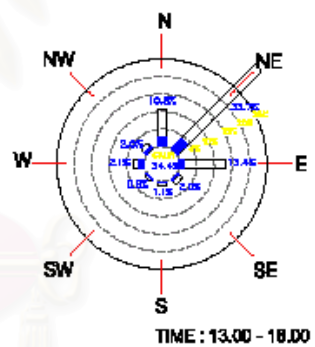
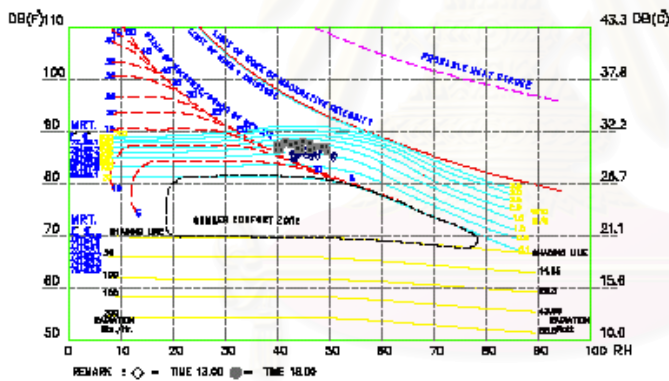
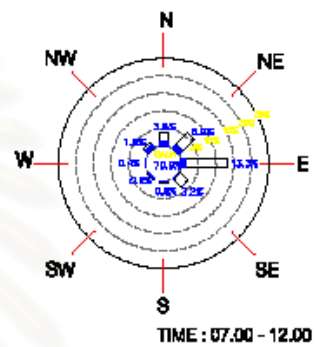
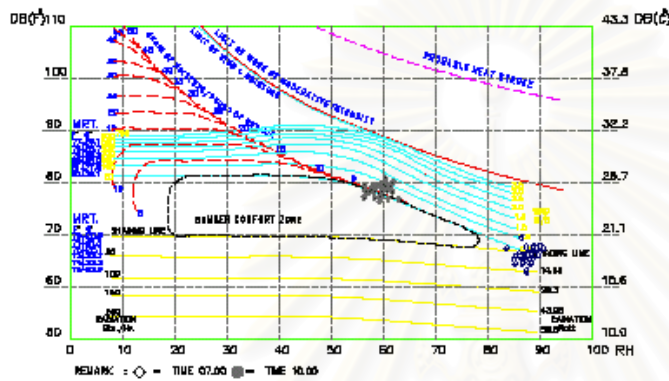
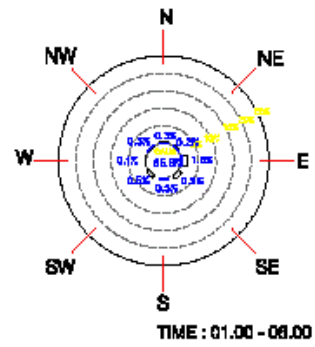
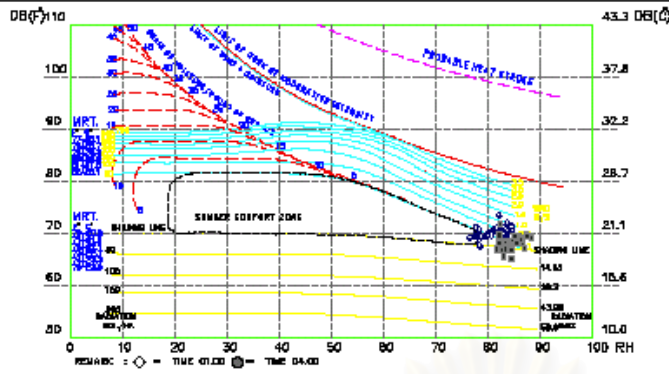


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : DECEMBER 1981-1998 (2624-2641) Station : NAKHON SAWAN



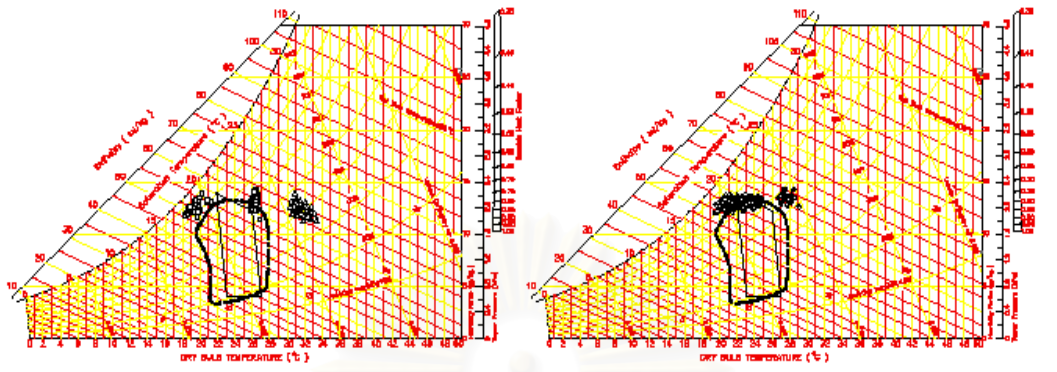
BIOCLIMATIC CHART

WIND ROSE

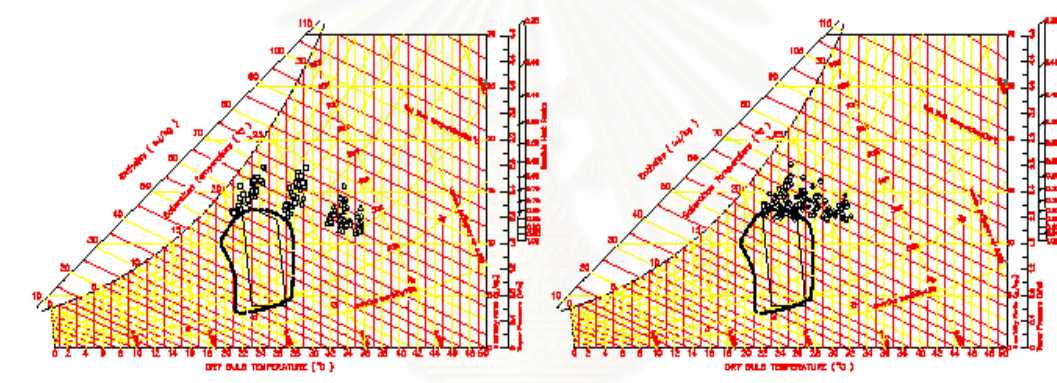


แผนภูมิความสัมพันธ์ระหว่างข้อมูลสภาวะอากาศ ในแผนภูมิไซโครเมตริก (psychrometric chart) แยกตามช่วงเวลา

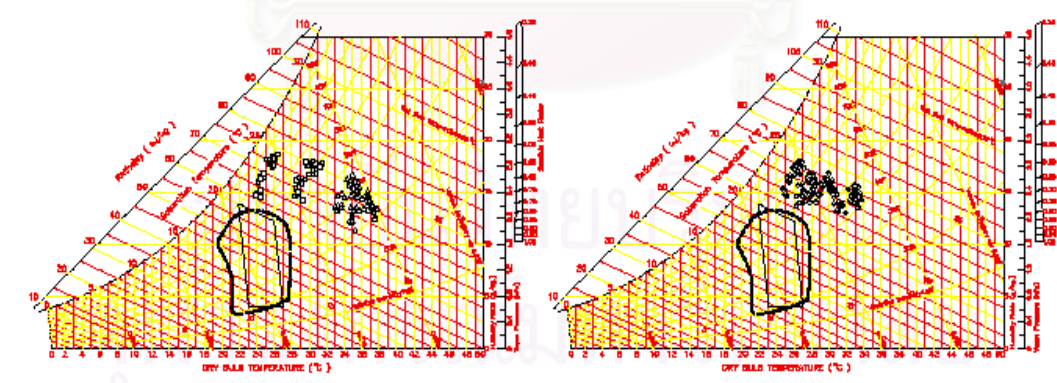
PSYCHROMETRIC CHART 1986-1998 (2529-2541) STATION : NAKHON SAWAN



MONTH : JANUARY

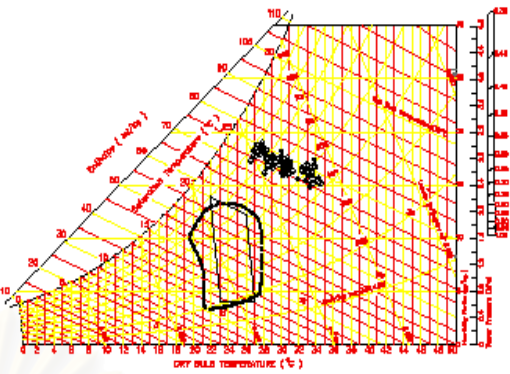
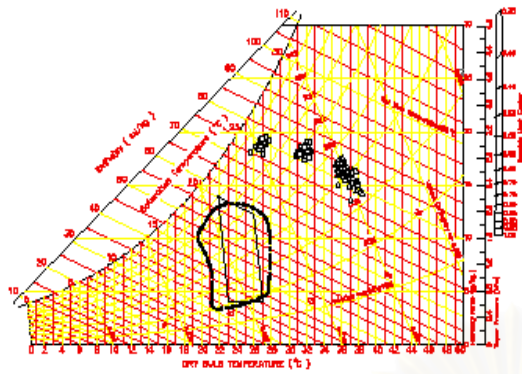


MONTH : FEBRUARY



MONTH : MARCH

PSYCHROMETRIC CHART 1986-1998 (2529-2541) STATION : NAKHON SAWAN

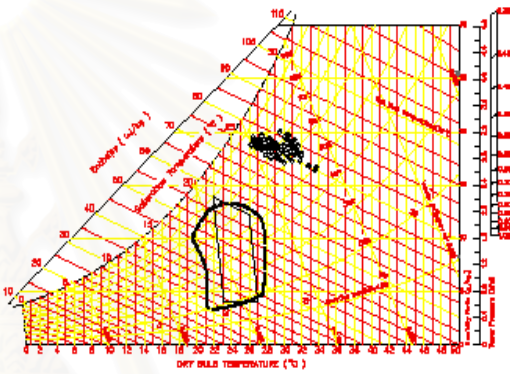
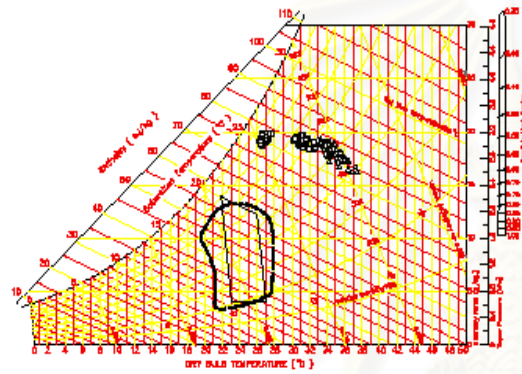


□ 7.00 - 12.00 △ 13.00 - 18.00

◇ 1.00 - 5.00 ◻ 19.00 - 24.00

— SUMMER COMFORT ZONE (ASHRAE1987) - - - SUMMER COMFORT ZONE (V.OUSAY)

MONTH : APRIL

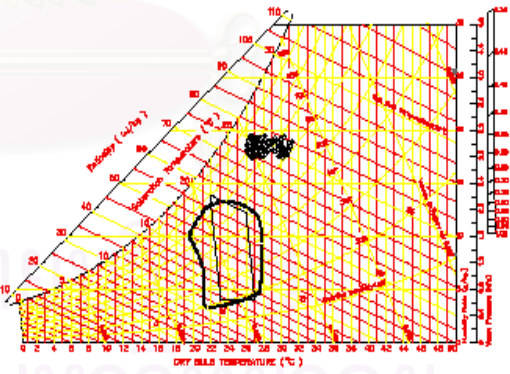
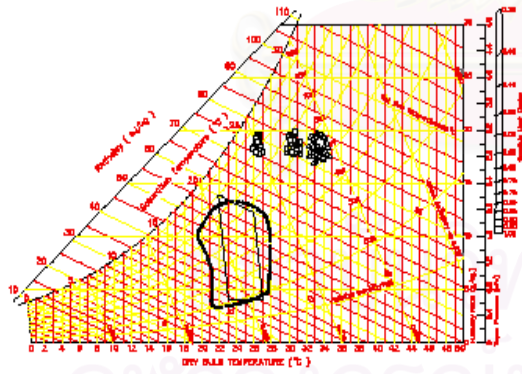


□ 7.00 - 12.00 △ 13.00 - 18.00

◇ 1.00 - 5.00 ◻ 19.00 - 24.00

— SUMMER COMFORT ZONE (ASHRAE1987) - - - SUMMER COMFORT ZONE (V.OUSAY)

MONTH : MAY



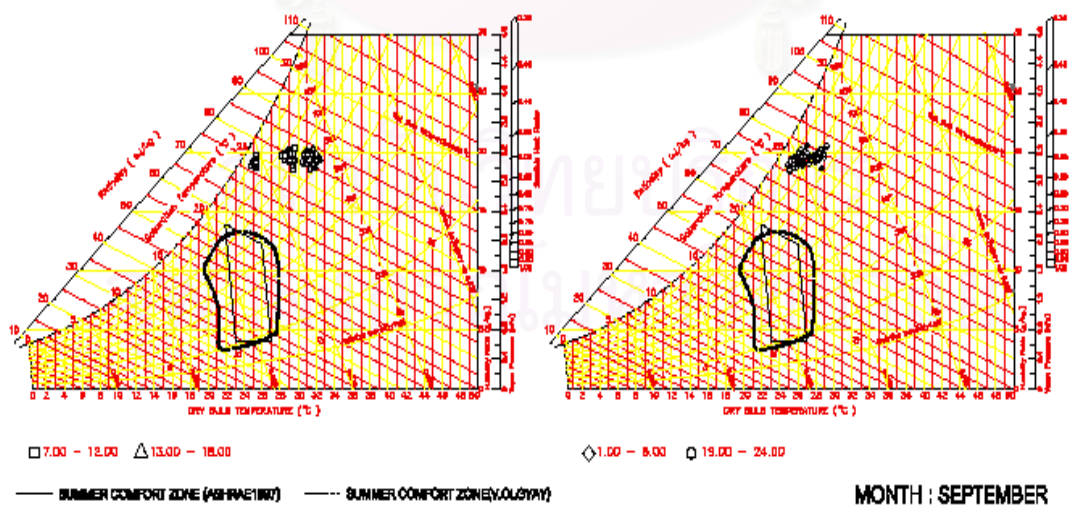
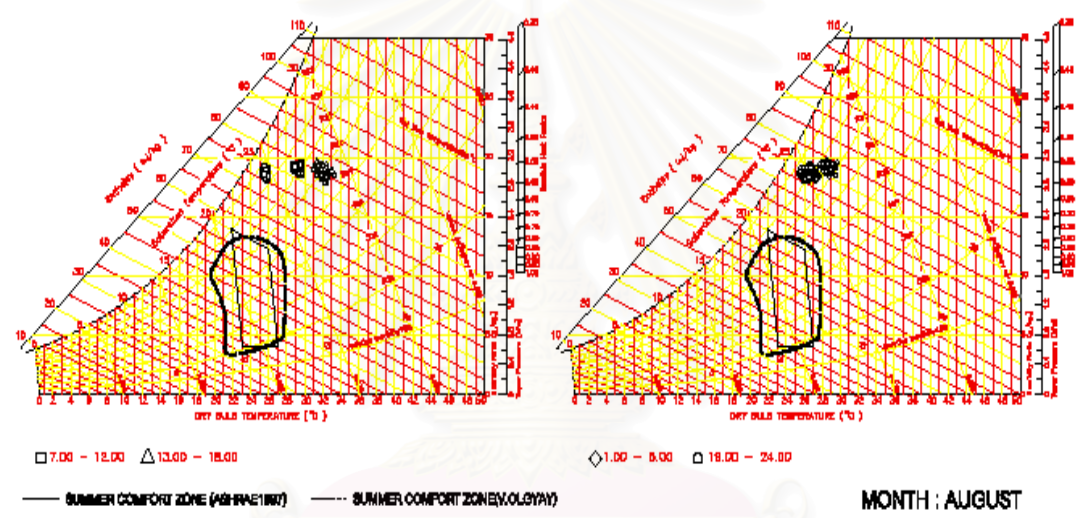
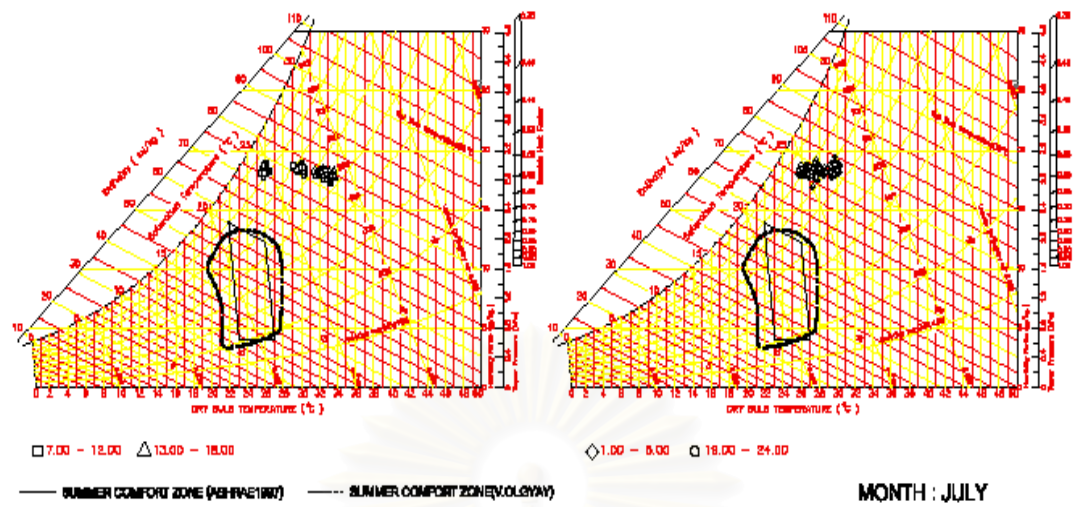
□ 7.00 - 12.00 △ 13.00 - 18.00

◇ 1.00 - 5.00 ◻ 19.00 - 24.00

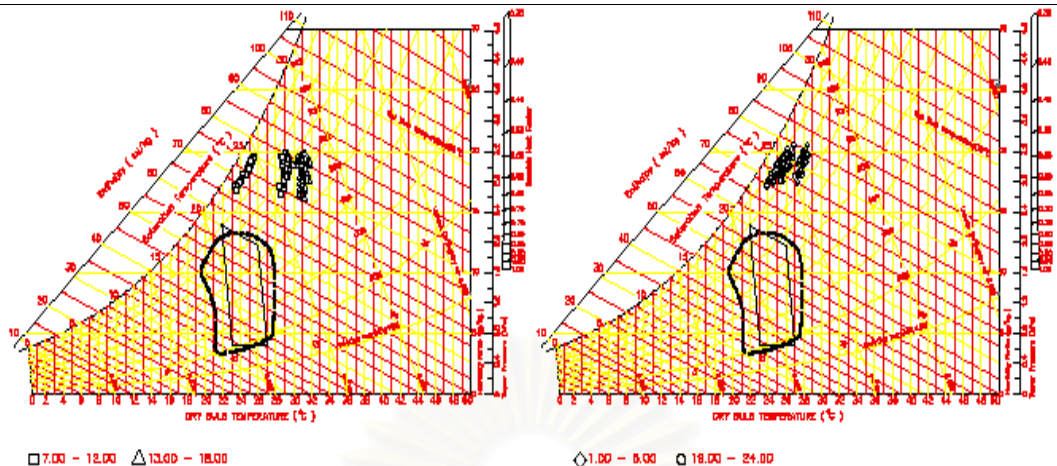
— SUMMER COMFORT ZONE (ASHRAE1987) - - - SUMMER COMFORT ZONE (V.OUSAY)

MONTH : JUNE

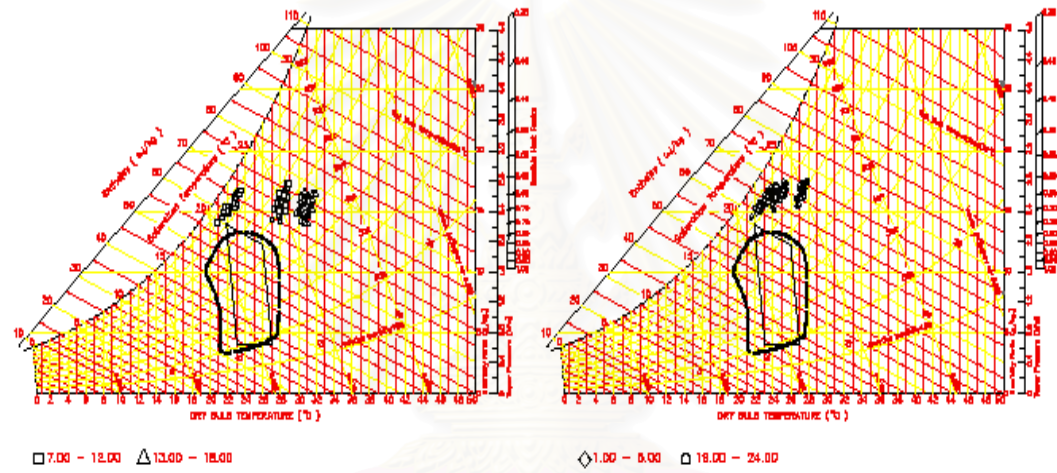
PSYCHROMETRIC CHART 1986-1998 (2529-2541) STATION : NAKHON SAWAN



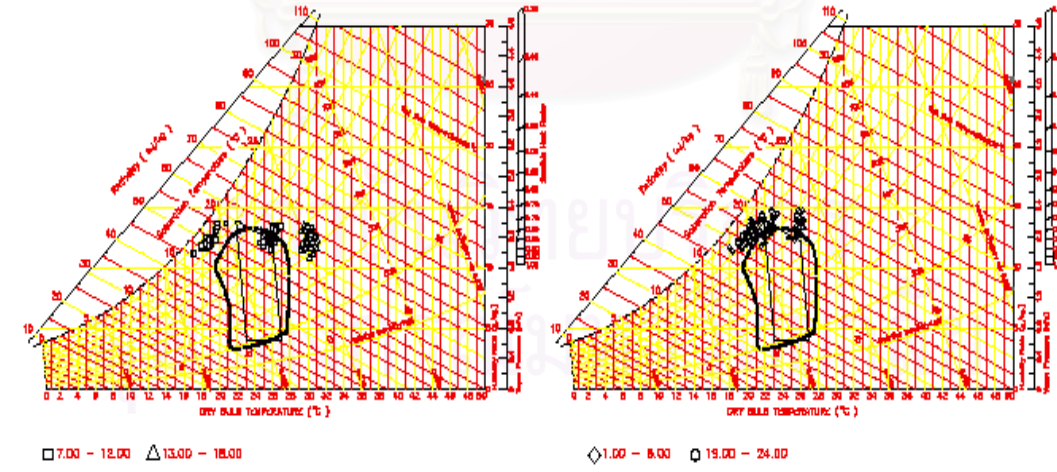
PSYCHROMETRIC CHART 1986-1998 (2529-2541) STATION : NAKHON SAWAN



MONTH : OCTOBER



MONTH : NOVEMBER



MONTH : DECEMBER

ตารางแสดงผลข้อมูลจำนวนรายชั่วโมงอุณหภูมิกระเปาะแห้ง และค่าเฉลี่ยอุณหภูมิกระเปาะเปียกที่เกิดขึ้น
จำแนกตามช่วงอุณหภูมิกระเปาะแห้ง (bin data) ในแต่ละช่วงเวลา

ANNUAL BIN-HOUR WEATHER DATA								STATION : NAKHON SAWAN	
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			
^o C	Annual							^o 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				33 (25.7)	1 (26.4)		34 (26.1)	100 / 104	
35.0 / 37.2			19 (26.2)	366 (26.3)	91 (25.9)		476 (26.1)	95 / 99	
32.2 / 34.4			298 (26.0)	682 (25.5)	353 (25.6)	23 (25.0)	1,356 (25.5)	90 / 94	
29.4 / 31.7	26 (24.6)	10 (25.7)	611 (25.1)	298 (24.8)	501 (24.9)	236 (25.3)	1,682 (25.1)	85 / 89	
26.7 / 28.9	531 (24.8)	443 (24.9)	381 (24.2)	63 (23.9)	378 (24.2)	592 (24.5)	2,388 (24.4)	80 / 84	
23.9 / 26.1	576 (23.5)	625 (23.7)	120 (22.4)	16 (23.7)	118 (23.0)	460 (23.3)	1,915 (23.3)	75 / 79	
21.1 / 23.3	211 (21.0)	232 (20.9)	30 (19.0)		15 (20.8)	104 (21.0)	592 (20.5)	70 / 74	
18.3 / 20.6	83 (17.5)	94 (18.0)	1 (15.9)			44 (17.7)	222 (17.3)	65 / 69	
15.6 / 17.8	30 (15.4)	53 (15.7)				1 (16.1)	84 (15.7)	60 / 64	
12.8 / 15.0		2 (14.5)					2 (14.5)	55 / 59	
10.0 / 12.2								50 / 54	
7.2 / 9.4								45 / 49	
4.4 / 6.7								40 / 44	
1.7 / 3.9								35 / 39	

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

สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

BIN-HOUR WEATHER DATA Hours of occurrence of DB in each bin with MCWB in parentheses																						STATION : NAKHON SAWAN											
Temperature range	Observation hour group						Total Observation	MCWB	Observation hour group						Total Observation	MCWB	Observation hour group						Total Observation	MCWB	Temperature range								
	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	to	to	to	to	to			to	to	to	to	to	to			to	to	to	to	to	to											
	04:00	06:00	12:00	16:00	20:00	24:00		04:00	06:00	12:00	16:00	20:00	24:00		04:00	06:00	12:00	16:00	20:00	24:00		04:00	06:00	12:00	16:00	20:00	24:00						
°C	January								February								March								°F								
40.6 / 42.6																														105 / 109			
37.8 / 40.0																														100 / 104			
35.0 / 37.2											20 (24.9)	2 (25.0)														70 (25.1)	19 (24.8)		89 (24.9)	95 / 99			
32.2 / 34.4											9 (24.2)	78 (23.3)	36 (24.1)													34 (25.2)	42 (25.0)	61 (24.7)	3 (23.7)	140 (24.7)	90 / 94		
29.4 / 31.7											47 (23.1)	12 (20.8)	50 (23.1)	14 (24.7)												50 (24.9)	1 (25.5)	33 (24.3)	49 (24.2)	134 (24.3)	85 / 89		
26.7 / 28.9											25 (23.7)	5 (24.6)	36 (22.2)	2 (21.0)												52 (24.8)	36 (24.3)	2 (22.8)	5 (23.3)	45 (23.8)	225 (23.6)	80 / 84	
23.9 / 26.1	18 (21.8)	5 (22.6)	43 (20.0)								42 (21.5)	47 (22.5)	14 (20.1)													26 (22.9)	57 (23.2)	2 (22.7)	2 (23.8)	4 (23.6)	20 (21.8)	111 (23.0)	75 / 79
21.1 / 23.3	30 (19.6)	34 (19.9)	20 (18.3)								27 (19.5)	34 (19.6)	4 (17.4)													17 (20.3)	13 (20.6)			4 (21.0)	34 (20.9)	70 / 74	
18.3 / 20.6	51 (17.4)	46 (17.6)	1 (16.9)								11 (16.7)	15 (17.3)																		2 (18.8)		66 / 69	
15.0 / 17.0	24 (15.9)	37 (15.8)									6 (14.9)	11 (14.9)																				60 / 64	
12.8 / 15.0		2 (14.5)																														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	April								May								June								°F								
40.6 / 42.6																														105 / 109			
37.8 / 40.0																														100 / 104			
35.0 / 37.2																														95 / 99			
32.2 / 34.4																														90 / 94			
29.4 / 31.7																														85 / 89			
26.7 / 28.9																														80 / 84			
23.9 / 26.1																														75 / 79			
21.1 / 23.3																														70 / 74			
18.3 / 20.6																														65 / 69			
15.0 / 17.0																														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

สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

BIN-HOUR WEATHER DATA Hours of occurrence of DB in each bin with MCWB in parentheses																				STATION : NAKHON SAWAN					
Temperature range	Observation hour group						Total Observation	MCWB	Observation hour group						Total Observation	MCWB	Observation hour group						Total Observation	MCWB	Temperature range
	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	to	to	to	to	to			to	to	to	to	to	to			to	to	to	to	to	to			
	04:00	08:00	12:00	16:00	20:00	24:00		04:00	08:00	12:00	16:00	20:00	24:00		04:00	08:00	12:00	16:00	20:00	24:00					
°C	July								August								September								°F
40.6 / 42.8																								105 / 109	
37.8 / 40.0																								100 / 104	
35.0 / 37.2							11				19	1									1		95 / 99		
32.2 / 34.4				17	85	24	126				20	64	18						12	72	9	99		90 / 94	
29.4 / 31.7				65	24	63	152				60	33	57	0					55	25	45	4	120	85 / 89	
26.7 / 28.9	80	48	42	5	37	88	278	72	63	35	7	33	86	296	25	17	35	14	38	50	179		80 / 84		
23.9 / 26.1	64	70			9	26	177	52	61		1	15	29	150	94	103	10	0	23	61	307		75 / 79		
21.1 / 23.3															1				5		5	11		70 / 74	
18.3 / 20.6																								65 / 69	
15.6 / 17.8																								60 / 64	
12.8 / 15.0																								55 / 59	
10.0 / 12.2																								50 / 54	
7.2 / 9.4																								45 / 49	
4.4 / 6.7																								40 / 44	
1.7 / 3.9																								35 / 39	
°C	October								November								December								°F
40.6 / 42.8																								105 / 109	
37.8 / 40.0																								100 / 104	
35.0 / 37.2							6				19								9			9		95 / 99	
32.2 / 34.4				24	70	13	107				19	55	15					13	88	15	117		90 / 94		
29.4 / 31.7				61	30	57	160				46	30	39					47	27	41	115		85 / 89		
26.7 / 28.9	39	33	33	7	50	70	232	4	6	38	11	47	32	138	2	42		55	14	113		80 / 84			
23.9 / 26.1	85	87	6	1	4	51	294	62	49	13	4	15	76	219	32	21	20	12	73	158		75 / 79			
21.1 / 23.3				3			3	54	85	4		4	12	139	70	65	2		36	173		70 / 74			
18.3 / 20.6															21	31				1	53		65 / 69		
15.6 / 17.8																5					5		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

ตารางแสดงผลข้อมูลปริมาณองศาชั่วโมง การทำความร้อนและการทำความเย็น (degree hours and hours of occurrence)

DEGREE HOURS & HOURS OF OCCURRENCE						Station : NAKHON SAWAN		
						YEARS : 1981 - 1998 (2524-2541)		
TEMPERATURE		MEAN TEMP.DEGREE (^o 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						
^o F	^o C			^o F	^o C		^o F	^o C
35	1.7	(37.5)	-	-	-	8,730.00	420,870.60	233,583.18
36	2.2		-	-	-	8,730.00	412,140.60	228,738.03
37	2.8	0	-	-	-	8,730.00	403,410.60	223,892.88
38	3.3		-	-	-	8,730.00	394,680.60	219,047.73
39	3.9		-	-	-	8,730.00	385,950.60	214,202.58
40	4.4	(42.5)	-	-	-	8,730.00	377,220.60	209,357.43
41	5.0		-	-	-	8,730.00	368,490.60	204,512.28
42	5.6	0	-	-	-	8,730.00	359,760.60	199,667.13
43	6.1		-	-	-	8,730.00	351,030.60	194,821.98
44	6.7		-	-	-	8,730.00	342,300.60	189,976.83
45	7.2	(47.5)	-	-	-	8,730.00	333,570.60	185,131.68
46	7.8		-	-	-	8,730.00	324,840.60	180,286.53
47	8.3	0	-	-	-	8,730.00	316,110.60	175,441.38
48	8.9		-	-	-	8,730.00	307,380.60	170,596.23
49	9.4		-	-	-	8,730.00	298,650.60	165,751.08
50	10.0	52.5	-	-	-	8,730.00	289,920.60	160,905.93
51	10.6		-	-	-	8,730.00	281,190.60	156,060.78
52	11.1	0	-	-	-	8,730.00	272,460.60	151,215.63
53	11.7		-	-	-	8,730.00	263,730.60	146,370.48
54	12.2		-	-	-	8,730.00	255,000.60	141,525.33
55	12.8	(57.5)	-	-	-	8,730.00	246,270.60	136,680.18
56	13.3		-	-	-	8,730.00	237,540.60	131,835.03
57	13.9	0	-	-	-	8,730.00	228,810.60	126,989.88
58	14.4		-	-	-	8,730.00	220,080.60	122,144.73
59	15.0		-	-	-	8,730.00	211,350.60	117,299.58
60	15.6	(62.5)	3.60	-	-	8,730.00	202,620.60	112,454.43
61	16.1		7.20	9.00	5.00	8,726.40	193,899.60	107,614.28
62	16.7	18	10.80	18.00	9.99	8,722.80	185,178.60	102,774.12
63	17.2		14.40	27.00	14.99	8,719.20	176,457.60	97,933.97
64	17.8		18.00	36.00	19.98	8,715.60	167,736.60	93,093.81
65	18.3	(67.5)	86.40	45.00	24.98	8,712.00	159,015.60	88,253.66
66	18.9		154.80	234.00	129.87	8,643.60	150,294.60	83,413.50
67	19.4	342	223.20	423.00	234.77	8,575.20	141,573.60	78,573.35
68	20.0		291.60	612.00	339.86	8,506.80	132,852.60	73,733.20
69	20.6		360.00	801.00	444.86	8,438.40	124,131.60	68,893.05

หมายเหตุ : วิธีการหาค่า degree hours ได้จากการคำนวณจากจำนวนชั่วโมง hours of occurrence ที่เกิดขึ้น ในแต่ละช่วงอุณหภูมิจุดสมดุลย์ที่พิจารณา โดยอาศัยข้อมูลสภาพอากาศ ราย 3 ชั่วโมง

DEGREE HOURS & HOURS OF OCCURRENCE								Station : NAKHON SAWAN	
								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)	487.80	990.00	549.45	8,370.00	116,310.60	64,562.38	
71	21.7		615.60	1,669.50	926.57	8,242.20	108,260.10	60,084.36	
72	22.2	639	743.40	2,349.00	1,303.70	8,114.40	100,209.60	55,616.33	
73	22.8		871.20	3,028.50	1,680.82	7,986.60	92,159.10	51,148.30	
74	23.3		999.00	3,708.00	2,067.94	7,858.80	84,106.60	46,690.27	
75	23.9	(77.5)	1,357.80	4,387.50	2,436.06	7,731.00	76,058.10	42,212.25	
76	24.4		1,716.60	6,283.50	3,487.34	7,372.20	69,224.10	38,419.38	
77	25.0	1794	2,075.40	8,179.50	4,539.62	7,013.40	62,390.10	34,626.51	
78	25.6		2,434.20	10,075.50	5,591.90	6,654.60	55,556.10	30,833.64	
79	26.1		2,793.00	11,971.50	6,644.18	6,295.80	48,722.10	27,040.77	
80	26.7	(82.5)	3,288.00	13,867.50	7,696.46	5,937.00	41,888.10	23,247.90	
81	27.2		3,783.00	17,898.00	9,933.39	5,442.00	37,188.60	20,639.67	
82	27.8	2475	4,278.00	21,928.50	12,170.32	4,947.00	32,489.10	18,031.45	
83	28.3		4,773.00	25,969.00	14,407.25	4,452.00	27,789.60	15,423.23	
84	28.9		5,268.00	29,969.50	16,644.17	3,957.00	23,090.10	12,815.01	
85	29.4	(87.5)	5,660.40	34,020.00	18,881.10	3,462.00	18,390.60	10,206.78	
86	30.0		6,052.80	40,269.00	22,349.30	3,069.60	15,909.60	8,829.83	
87	30.6	1962	6,445.20	46,518.00	25,817.49	2,677.20	13,428.60	7,452.87	
88	31.1		6,837.60	52,767.00	29,286.69	2,284.80	10,947.60	6,075.92	
89	31.7		7,230.00	59,016.00	32,753.88	1,892.40	8,466.60	4,698.96	
90	32.2	(92.5)	7,447.20	65,265.00	36,222.08	1,500.00	5,985.60	3,322.01	
91	32.8		7,664.40	73,038.00	40,536.09	1,282.80	5,028.60	2,790.87	
92	33.3	1086	7,881.60	80,811.00	44,850.11	1,065.60	4,071.60	2,259.74	
93	33.9		8,098.80	88,584.00	49,164.12	848.40	3,114.60	1,728.60	
94	34.4		8,316.00	96,357.00	53,478.14	631.20	2,167.60	1,197.47	
95	35.0	(97.5)	8,398.80	104,130.00	57,792.15	414.00	1,200.60	666.33	
96	35.6		8,481.60	112,863.00	62,522.42	331.20	910.60	505.49	
97	36.1	414	8,564.40	121,176.00	67,252.68	248.40	621.00	344.66	
98	36.7		8,647.20	129,899.00	71,982.95	165.60	331.20	183.82	
99	37.2		8,730.00	138,222.00	76,713.21	82.80	41.40	22.98	

หมายเหตุ : วิธีการหาค่า degree hours ได้จากการคำนวณจากจำนวนชั่วโมง hours of occurrence ที่เกิดขึ้น ในแต่ละช่วงอุณหภูมิจุดสมมูลย์ที่พิจารณา โดยอาศัยข้อมูลสภาพอากาศ ราย 3 ชั่วโมง