

ข้อมูลอากาศประเทศไทยสำหรับงานอนุรักษ์พลังงาน
จังหวัดนครราชสีมา



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สิงหาคม 2543

เล่ม

สารบัญ

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ตารางสรุปผลของข้อมูลทุกประเภทจังหวัดนครราชสีมา

CLIMATOLOGICAL DATA FOR THE PERIOD 1981-1998 station : NAKHON RATCHASIMA

Elevation of station above MSL

187 Meters

Latitude: 14 58 N

Longitude: 102 05 E

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
TEMPERATURE (°C)													
Averages													
Daily Maximum	30.3	33.2	34.8	35.3	33.8	33.2	32.5	31.9	31.0	29.9	29.3	28.6	32.0
Monthly Mean	24.1	26.9	28.9	30.0	29.2	29.0	28.4	28.0	27.4	26.5	25.3	23.2	27.2
Daily Minimum	18.5	21.3	23.5	25.6	25.9	25.9	25.4	25.1	24.6	23.7	21.5	18.2	23.3
Dry bulb Standard Deviation	5.0	4.9	4.8	4.3	3.8	3.2	3.2	3.0	2.9	2.9	3.5	4.5	3.8
Extremes													
Highest	36.3	38.0	40.4	41.8	39.6	38.4	37.6	36.3	36.5	34.5	36.0	35.7	41.8
Lowest	9.8	14.2	13.4	19.2	22.0	23.0	21.5	20.5	20.5	16.9	12.8	9.0	9.0
Monthly Dew Point	16.1	17.9	19.3	21.5	23.0	22.8	22.6	22.8	23.2	22.1	19.4	15.9	20.6
Dew Point Standard Deviation	3.1	3.1	2.9	1.8	1.3	1.2	1.1	1.0	1.0	2.1	2.9	3.1	2.1
Monthly Wet bulb Temperature	19.2	21.2	22.6	24.2	24.9	24.8	24.4	24.4	24.5	23.5	21.5	18.7	22.8
DEGREE DAY BASE 18.3°C													
Heating													
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	179.6	248.7	327.0	349.6	335.5	320.6	313.3	298.8	271.0	252.6	207.6	150.9	3,255.2
RELATIVE HUMIDITY (%)													
Averages													
Monthly Mean	63.3	60.7	59.6	63.3	71.4	71.1	72.5	75.0	79.3	78.3	71.8	65.6	69.3
Hour 01:00-06:00	77.2	74.5	73.5	76.7	83.5	82.8	83.9	85.8	90.0	89.5	83.9	78.9	81.7
Hour 07:00-12:00	72.6	71.0	68.2	68.9	73.7	73.3	74.9	77.4	81.8	80.3	75.9	72.8	74.2
Hour 13:00-18:00	42.6	40.1	39.7	44.6	54.9	55.3	56.7	59.5	63.7	62.7	54.9	45.9	51.7
Hour 19:00-24:00	60.9	57.2	57.2	63.3	73.4	73.0	74.7	77.5	81.9	80.9	72.8	64.9	69.8
WIND													
Average Speed (m/s)													
Average Speed (m/s)	0.8	0.8	0.9	1.0	1.0	1.2	1.2	1.1	0.8	1.0	1.1	1.0	1.0
Prevailing wind													
Prevailing wind	NE	NE	S	S	S	SW	SW	SW	W	NE	NE	NE	NE
Maximum Speed (m/s)													
Maximum Speed (m/s)	7.7	6.2	6.2	10.3	6.2	30.3	7.7	9.8	6.2	25.7	7.7	6.7	30.3
SKY COVER (0-10)													
Average Sky Condition													
Average Sky Condition	3.6	3.9	4.5	5.5	7	7.8	8.1	8.5	8.1	6.8	5.2	3.7	6.1
Percentage of Sky cover													
Clear sky (0-3)													
Clear sky (0-3)	60	55	46	33	14	7	6	3	5	18	39	59	29
Partly Cloudy sky (4-7)													
Partly Cloudy sky (4-7)	28	32	33	36	34	27	24	20	26	31	31	27	29
Cloudy sky (8-10)													
Cloudy sky (8-10)	12	13	21	31	52	66	71	78	69	51	30	14	42
SUNSHINE DURATION* (hours)													
Average Monthly total													
Average Monthly total	-	-	-	-	-	-	-	-	-	-	-	-	-
Percentage of Sunshine													
Percentage of Sunshine	-	-	-	-	-	-	-	-	-	-	-	-	-
SOLAR RADIATION* (W/m²)													
Average Hourly max													
Average Hourly max	-	-	-	-	-	-	-	-	-	-	-	-	-
Average Hourly mean													
Average Hourly mean	-	-	-	-	-	-	-	-	-	-	-	-	-
Average Daily Total													
Average Daily Total	-	-	-	-	-	-	-	-	-	-	-	-	-
RAINFALL (mm)													
Average Monthly total													
Average Monthly total	9.2	16.2	30.4	78.3	187.9	122.5	150.1	214.2	251.8	163.7	22.2	7.3	1253.8
Daily record high													
Daily record high	71.4	62.0	46.6	84.3	113.5	74.2	77.7	97.3	100.3	75.7	31.4	93.6	113.5
Average Number of rainy days (0.1 mm. Or more)													
Average Number of rainy days (0.1 mm. Or more)	1	2	4	8	14	14	15	18	19	13	4	1	113
EVAPORATION (mm)													
Average Monthly total													
Average Monthly total	133.3	142.3	181.0	182.3	168.9	159.9	162.6	145.5	125.1	121.0	127.9	131.0	1,780.8

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

(*) data base on 1997 - 1998 recorded period

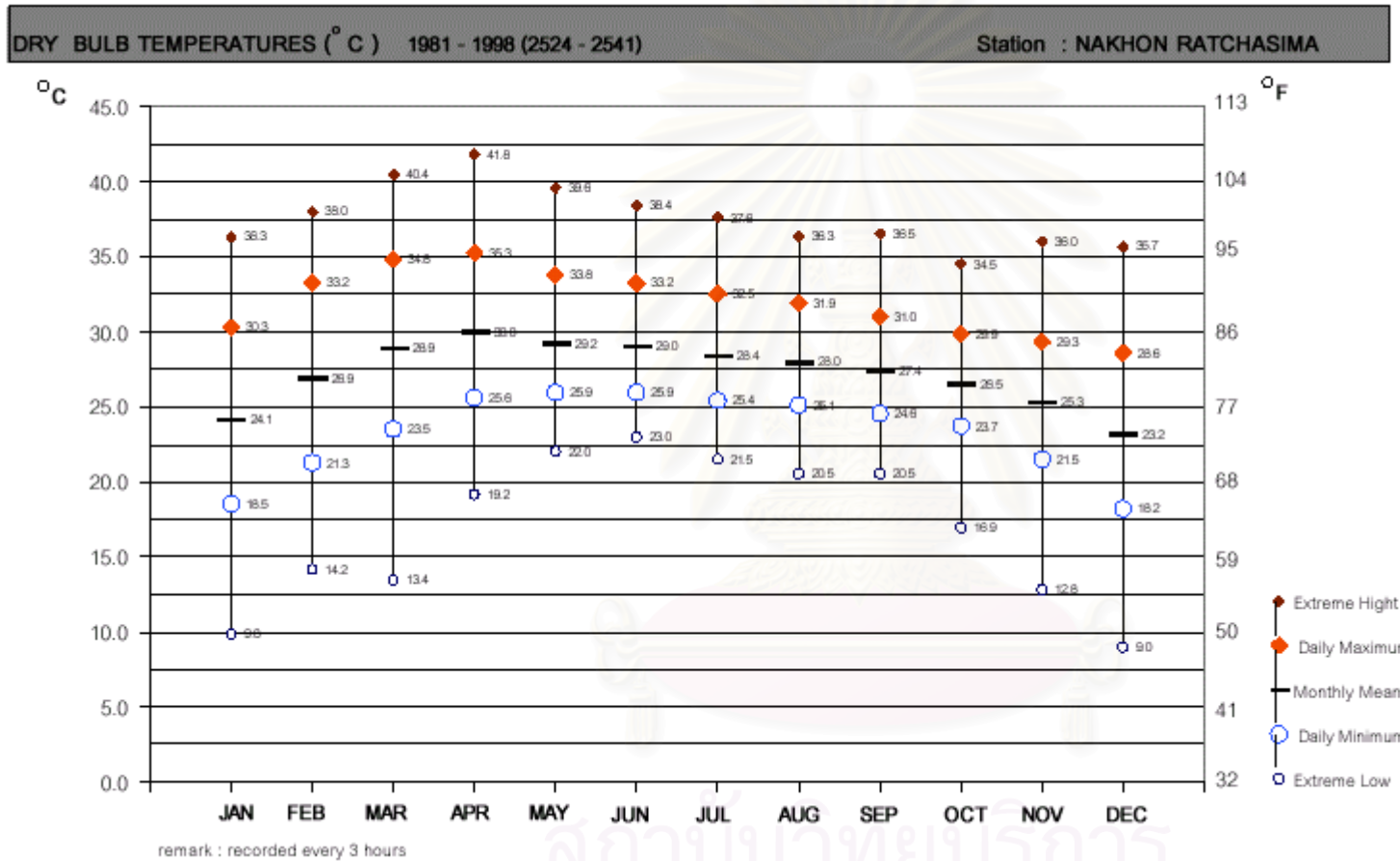
1 W/m2 = 0.317 Btu/h.ft2

(-) missing value or no data report

ตารางแสดงผลข้อมูลอุณหภูมิกระเปาะแห้ง (dry bulb temperatures)

DRY BULB TEMPERATURES (°C) 1981 - 1998 (2524 - 2541)													Station : NAKHON RATCHASIMA																										
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	18.0	23.7	29.9	19.0	25.0	31.4	22.7	27.7	33.6	24.7	29.5	34.9	25.8	30.0	35.1	25.9	29.4	33.6	25.7	29.0	33.1	25.3	28.2	31.9	25.0	28.0	32.1	24.7	27.2	30.6	22.0	25.4	28.8	20.1	23.8	27.9	23.2	27.2	31.9
2	18.3	24.0	30.1	19.2	25.0	31.3	21.6	26.9	32.3	25.1	30.2	36.1	26.2	30.2	35.6	26.2	29.3	34.1	25.7	29.0	33.2	25.5	28.4	32.1	24.8	28.1	32.0	24.3	26.9	30.2	22.4	25.5	28.9	19.2	23.3	28.0	23.2	27.2	32.0
3	18.5	24.3	30.5	19.7	25.4	31.7	21.6	26.9	33.2	25.5	30.2	35.5	26.5	30.1	34.6	26.1	29.2	33.5	25.6	28.9	33.5	25.5	28.6	32.6	24.9	27.7	31.3	24.1	26.8	30.4	22.1	25.3	28.6	19.1	23.4	28.1	23.3	27.2	32.0
4	18.9	24.4	30.6	20.4	25.8	32.0	21.9	27.1	33.0	25.2	29.9	35.5	26.5	30.3	35.3	26.0	29.1	33.8	25.6	28.4	32.9	25.2	28.1	31.8	24.8	27.9	32.1	24.4	26.6	30.0	22.2	25.4	29.0	19.1	23.6	28.5	23.3	27.2	32.0
5	18.9	24.1	30.2	20.3	25.8	31.9	22.0	26.8	32.2	24.8	29.7	35.1	25.9	29.5	33.8	25.9	28.6	33.3	25.4	28.1	32.6	25.0	27.8	32.1	24.6	27.8	31.8	24.3	26.8	30.0	22.1	25.5	29.6	19.1	23.9	29.0	23.2	27.0	31.8
6	18.3	23.9	30.0	20.2	25.8	32.0	21.4	26.9	33.0	25.1	30.2	35.5	25.8	29.6	34.6	25.8	28.8	32.9	25.1	28.3	32.6	24.9	27.8	32.0	24.8	27.8	32.0	24.2	26.9	30.4	22.0	25.5	29.4	19.1	23.7	28.6	23.1	27.1	31.9
7	18.3	23.8	29.6	19.8	25.7	32.3	22.1	27.7	33.9	25.3	30.6	36.3	26.3	29.7	34.9	25.8	28.9	33.0	25.2	28.8	33.3	25.1	27.8	31.2	24.8	27.4	31.1	24.2	27.1	31.0	22.3	25.9	30.1	18.2	23.1	28.2	23.1	27.2	32.1
8	18.0	23.5	29.4	20.0	26.0	32.8	22.5	28.2	34.6	25.4	29.9	35.5	25.5	29.3	33.7	25.5	28.7	33.1	25.6	28.6	32.7	24.9	27.8	31.9	24.5	27.3	31.3	24.3	27.0	30.4	22.4	25.9	29.5	18.1	22.8	28.0	23.1	27.1	31.9
9	17.9	23.4	29.6	20.5	26.1	32.3	22.7	28.5	34.8	25.1	29.9	35.5	26.2	28.9	33.7	25.8	28.8	32.5	25.3	28.3	32.3	25.2	28.0	31.7	24.7	27.1	30.3	24.5	26.7	29.9	22.3	25.5	29.1	17.8	23.0	28.6	23.2	27.0	31.7
10	17.7	23.7	30.3	20.8	26.1	32.2	23.1	28.7	34.5	25.6	30.3	35.6	25.7	28.8	33.5	25.7	28.9	32.8	25.3	28.3	32.8	25.1	27.6	31.5	24.7	27.1	30.4	24.2	26.6	29.5	21.4	24.9	28.5	18.5	23.3	28.6	23.1	27.0	31.7
11	18.0	24.0	30.5	21.1	26.1	31.9	23.4	29.1	35.1	25.5	30.6	36.3	25.7	29.2	34.3	25.7	28.6	32.4	25.3	28.1	32.1	24.9	27.8	31.6	24.4	27.1	30.9	24.1	26.4	29.4	21.3	25.0	28.9	18.5	23.4	28.8	23.2	27.1	31.9
12	18.4	24.4	30.7	21.2	26.5	32.8	23.5	29.2	35.7	25.6	30.2	36.2	25.7	29.0	34.2	25.8	28.7	32.4	25.2	28.5	32.2	24.9	28.3	32.2	24.2	27.4	31.4	24.2	26.5	29.9	21.8	25.5	29.5	18.7	23.6	29.1	23.3	27.3	32.2
13	18.6	24.2	30.5	21.2	27.2	34.0	23.8	29.6	36.1	25.5	29.8	34.5	25.8	28.8	33.5	25.5	28.7	32.8	25.4	28.6	32.9	25.2	28.4	32.4	24.6	27.5	31.3	24.1	26.7	30.0	22.0	25.5	29.5	18.5	23.5	29.0	23.3	27.4	32.2
14	18.0	24.0	30.2	21.8	27.6	34.3	23.7	29.2	35.4	25.5	30.0	35.0	25.5	28.8	33.2	25.7	28.8	32.9	25.5	28.3	32.2	25.3	28.1	31.8	24.4	27.3	31.2	24.0	26.9	30.6	22.1	25.5	29.3	18.5	23.6	29.1	23.3	27.4	32.1
15	18.3	23.9	30.3	22.1	27.8	34.2	23.9	29.5	35.8	25.8	29.8	34.3	25.5	29.0	33.6	25.8	29.1	33.4	25.3	28.2	31.9	25.4	28.4	32.3	24.8	27.7	31.4	24.3	26.8	30.1	22.0	25.7	29.9	19.0	23.6	28.5	23.5	27.4	32.1
16	17.8	23.9	30.4	22.0	27.8	34.3	23.6	29.6	35.9	25.7	29.9	35.0	26.0	29.4	33.6	26.0	29.3	33.6	25.1	28.4	32.5	25.2	28.1	32.0	24.7	27.5	30.9	24.0	26.8	30.2	22.1	25.9	30.1	18.1	23.1	28.3	23.4	27.5	32.2
17	17.9	24.0	30.4	21.9	28.0	34.6	24.1	29.9	36.1	26.0	29.8	35.0	26.3	29.1	33.7	26.0	29.4	33.7	25.4	28.8	33.1	25.2	27.9	31.6	24.6	27.3	31.0	24.4	26.6	30.3	22.3	26.0	30.2	17.9	23.0	28.4	23.5	27.5	32.3
18	18.4	24.4	31.1	22.0	27.9	34.0	24.0	29.7	35.5	25.6	30.3	35.8	25.9	28.7	32.7	26.0	29.2	33.7	25.7	28.7	32.8	25.1	27.8	31.8	24.5	27.2	30.7	24.0	26.6	30.1	21.8	25.5	29.7	18.4	23.3	28.7	23.4	27.5	32.2
19	18.4	24.4	30.9	21.7	27.7	34.3	24.4	29.8	36.3	26.2	30.6	36.0	25.8	28.9	33.4	25.9	29.0	33.1	25.5	28.6	32.6	24.9	27.6	31.6	24.7	27.4	30.4	24.1	26.6	29.8	21.3	25.3	29.7	18.2	23.4	29.0	23.4	27.4	32.3
20	18.8	24.5	30.8	21.3	27.7	34.4	24.1	29.8	36.2	26.7	30.2	35.3	25.6	29.0	33.7	25.8	29.2	33.4	25.4	28.6	32.9	25.0	27.8	31.6	24.8	27.3	31.2	23.8	26.6	29.8	21.2	25.2	29.5	18.0	23.4	28.9	23.4	27.4	32.3
21	19.2	24.8	31.0	21.4	27.5	34.0	24.4	29.8	35.6	26.2	29.9	35.1	25.9	29.3	34.0	26.0	29.3	33.6	25.4	28.3	32.0	25.0	28.0	32.0	24.7	27.1	30.4	23.6	26.6	30.3	21.0	24.8	28.8	18.4	23.4	28.8	23.4	27.4	32.1
22	19.1	24.6	30.7	21.7	27.6	34.1	24.2	29.6	36.2	25.7	29.6	34.8	26.1	29.4	33.8	25.9	29.5	33.4	25.3	28.3	32.3	25.0	28.2	32.2	24.5	27.2	30.6	22.9	26.2	30.0	20.8	24.9	29.3	17.7	23.0	28.5	23.2	27.3	32.2
23	18.9	24.6	30.7	21.8	27.5	33.8	24.5	29.5	35.1	25.5	29.9	35.4	26.3	29.6	34.1	26.4	29.5	33.7	25.2	28.0	32.1	25.3	27.8	31.3	24.5	27.2	30.7	23.2	26.2	29.7	20.7	24.9	29.4	17.5	22.7	28.3	23.3	27.3	32.0
24	19.1	24.6	30.7	22.1	27.6	33.9	24.0	29.4	35.0	26.1	29.9	34.9	26.1	29.5	33.9	26.0	29.3	33.3	25.0	28.1	31.8	24.9	27.6	31.4	24.5	27.2	30.7	23.2	26.2	29.9	20.4	24.6	28.9	16.6	22.2	28.4	23.2	27.2	31.9
25	19.4	24.6	30.3	22.9	28.0	34.1	24.5	29.5	35.4	26.2	29.8	34.9	25.9	28.6	33.2	26.3	29.2	32.9	25.2	28.3	32.3	24.9	27.5	31.1	24.7	27.3	30.6	23.1	25.9	28.9	20.3	24.5	28.9	16.4	22.1	28.3	23.3	27.1	31.7
26	19.5	24.0	29.0	22.7	28.0	34.1	24.0	29.2	34.4	25.5	29.8	34.8	24.4	27.2	31.3	26.0	29.1	33.0	25.1	28.5	32.6	24.9	27.7	31.6	24.8	27.1	30.5	22.8	26.0	29.8	20.9	24.9	29.3	16.8	22.6	28.7	23.1	27.0	31.6
27	19.3	24.0	29.4	22.7	28.1	34.2	24.5	29.3	34.2	25.9	29.8	34.7	25.8	28.7	32.8	25.6	28.5	32.7	25.4	28.5	32.6	24.9	28.2	32.6	24.5	27.2	30.7	22.8	25.9	29.3	21.1	25.0	29.1	17.6	22.9	28.7	23.3	27.2	31.7
28	18.4	23.7	29.6	22.9	27.6	33.3	24.5	29.5	35.0	26.1	29.9	35.2	25.6	28.6	33.6	25.6	28.6	32.5	25.5	28.7	32.9	25.2	28.1	32.1	24.6	27.2	30.6	22.4	25.8	29.6	21.1	24.9	29.0	17.5	23.1	29.0	23.3	27.2	31.9
29	17.8	23.7	30.4	22.4	27.5	33.6	24.3	29.6	35.0	25.9	29.9	34.7	25.6	28.7	33.2	25.4	28.8	33.0	25.4	28.4	32.7	25.1	27.8	31.8	24.5	26.9	30.1	22.7	25.7	29.1	20.6	24.7	28.9	17.2	22.9	28.9	23.1	27.1	31.8
30	18.2	24.4	31.1				25.2	29.8	35.1	26.2	29.6	34.4	25.9	29.0	33.3	25.7	28.9	33.1	25.3	28.2	32.0	25.1	27.8	31.6	24.5	27.0	30.1	22.7	25.8	29.4	20.2	24.5	28.9	17.5	23.2	29.4	23.3	27.1	31.7
31	18.6	24.8	31.3				24.3	29.3	34.9				25.8	28.9	33.3				25.4	28.0	31.7	24.8	28.0	32.5				22.2	25.4	28.8				17.8	23.6	29.6	22.7	26.8	31.7
Average	18.5	24.1	30.3	21.3	26.9	33.2	23.5	28.9	34.8	25.6	30.0	35.3	25.9	29.2	33.8	25.9	29.0	33.2	25.4	28.4	32.5	25.1	28.0	31.9	24.6	27.4	31.0	23.7	26.5	29.9	21.5	25.3	29.3	18.2	23.2	28.6	23.3	27.2	32.0
Extremes	9.8	36.3	44.2	38.0	13.4	40.4	19.2	41.8	22.0	39.6	23.0	38.4	21.5	37.6	20.5	36.3	20.5	36.5	16.9	34.5	12.8	36.0	9.0	35.7	9.0	41.8													

แผนภูมิอุณหภูมิกระเปาะแห้ง (dry bulb temperatures)

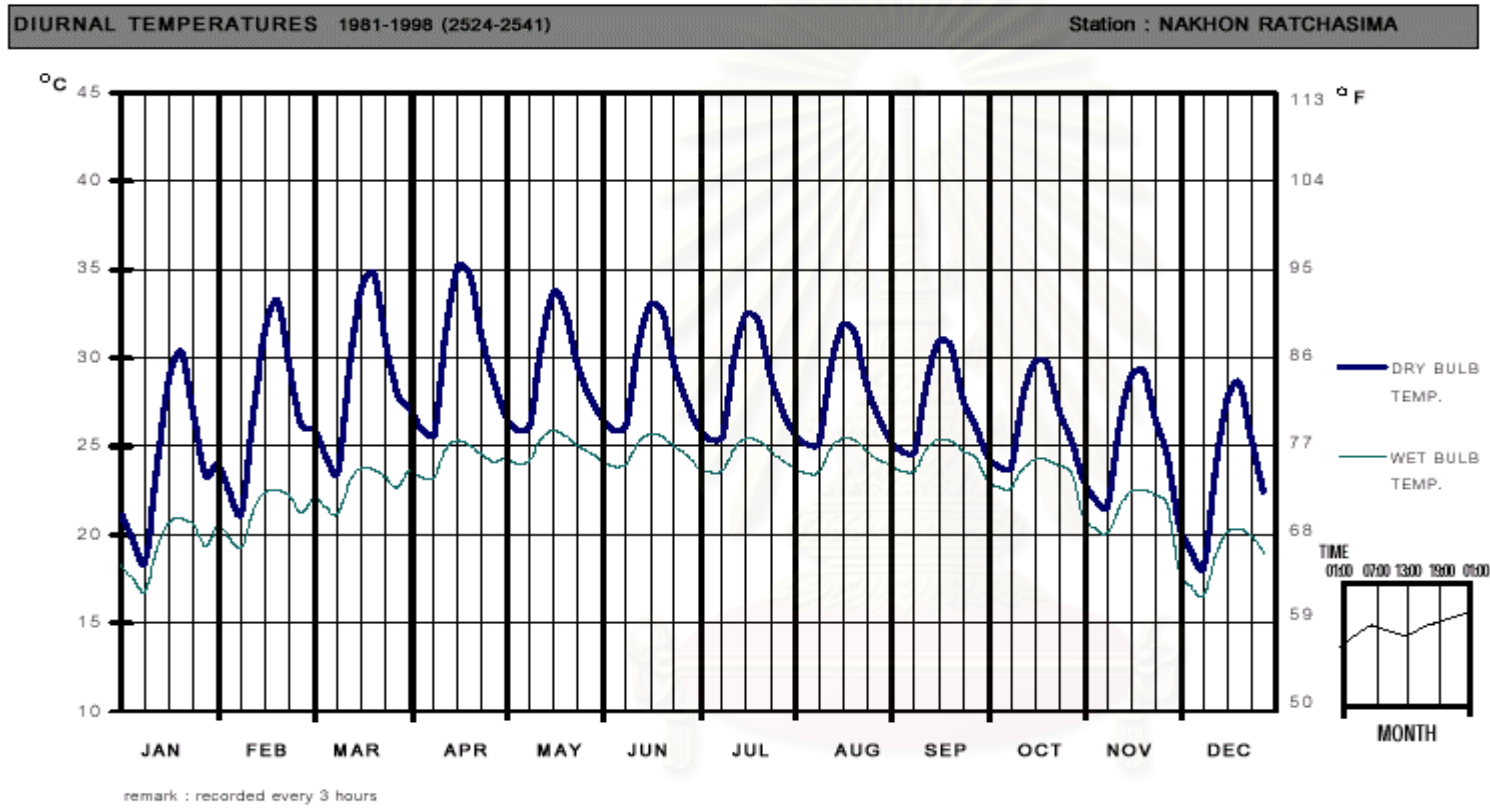


สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

ตารางแสดงผลข้อมูลอุณหภูมิกระเปาะเปียก (wet bulb temperatures)

WET BULB TEMPERATURES (°C) 1981 - 1998 (2524 - 2541)														Station : NAKHON RATCHASIMA																									
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	16.6	19.0	20.9	17.1	19.4	21.0	20.6	22.0	23.1	22.3	23.6	24.5	23.8	24.8	25.9	24.1	25.2	26.2	23.6	24.5	25.5	23.5	24.4	25.3	23.7	24.6	25.7	23.7	24.4	25.2	20.4	21.9	22.8	18.0	19.5	20.6	21.4	22.8	23.9
2	16.8	19.2	20.9	17.1	19.4	21.2	19.5	21.1	22.3	22.9	24.0	25.0	23.9	24.9	26.0	24.4	25.2	26.3	23.6	24.6	25.5	23.6	24.4	25.5	23.5	24.6	25.5	23.4	24.2	24.9	20.8	22.0	22.9	17.3	19.1	20.5	21.4	22.7	23.9
3	17.1	19.6	21.3	17.6	19.9	21.7	19.1	21.0	22.6	22.8	23.9	25.0	24.2	24.9	25.9	24.4	25.2	26.3	23.5	24.6	25.8	23.5	24.5	25.6	23.8	24.6	25.6	23.1	24.0	25.0	20.9	22.1	22.9	17.6	19.4	20.9	21.5	22.8	24.0
4	17.5	19.8	21.5	18.3	20.3	22.0	19.5	21.3	22.9	22.9	23.9	25.2	24.1	24.9	25.8	24.3	25.2	26.3	23.6	24.5	25.5	23.7	24.6	25.6	23.5	24.5	25.7	23.3	23.9	24.6	20.8	22.0	22.8	17.6	19.6	21.2	21.6	22.9	24.1
5	17.4	19.5	21.0	18.4	20.4	22.0	19.8	21.2	22.6	22.6	23.8	24.9	23.7	24.5	25.4	24.1	25.0	26.2	23.7	24.4	25.5	23.5	24.4	25.6	23.4	24.4	25.5	23.2	23.9	24.7	20.7	21.9	23.0	17.6	19.7	21.3	21.5	22.8	24.0
6	16.9	19.2	20.9	18.2	20.3	22.0	19.2	21.2	22.6	22.6	24.0	25.2	23.7	24.6	25.6	24.2	25.0	25.9	23.4	24.3	25.4	23.4	24.4	25.4	23.4	24.4	25.6	22.9	23.9	24.7	20.9	22.2	23.2	17.6	19.4	20.9	21.4	22.7	23.9
7	16.7	19.1	20.7	18.0	20.3	21.9	19.8	21.6	22.9	22.8	24.1	25.6	23.9	24.6	25.8	24.0	24.9	25.9	23.5	24.5	25.5	23.4	24.3	25.3	23.5	24.4	25.4	23.1	24.0	24.6	21.2	22.3	23.2	16.6	18.7	20.1	21.4	22.7	23.9
8	16.6	18.9	20.5	18.1	20.2	21.7	20.3	22.0	23.2	22.9	24.0	25.2	23.6	24.5	25.6	23.8	24.9	26.0	23.6	24.5	25.4	23.3	24.2	25.3	23.3	24.4	25.4	23.2	24.1	25.0	20.8	22.1	23.0	16.4	18.4	20.0	21.3	22.7	23.9
9	16.3	18.7	20.5	18.5	20.4	21.8	20.4	22.0	23.0	22.8	24.0	25.0	24.0	24.8	26.0	24.1	24.8	25.6	23.3	24.4	25.6	23.5	24.4	25.4	23.5	24.4	25.2	23.5	24.2	25.1	20.5	21.7	22.6	16.4	18.7	20.3	21.4	22.7	23.8
10	16.2	18.9	20.8	18.7	20.7	22.2	20.5	22.2	23.4	23.1	24.1	25.3	23.9	24.7	25.8	23.9	24.8	25.6	23.7	24.4	25.5	23.5	24.4	25.4	23.6	24.4	25.2	23.3	24.0	24.7	19.7	21.1	22.1	16.9	19.1	20.7	21.4	22.7	23.9
11	16.4	19.1	21.1	19.1	20.9	22.4	21.4	22.8	24.0	23.0	24.1	25.4	24.0	24.9	26.0	23.8	24.8	25.8	23.6	24.4	25.5	23.3	24.2	25.2	23.5	24.3	25.3	23.0	23.8	24.4	19.8	21.2	22.4	16.9	19.1	20.7	21.5	22.8	24.0
12	17.0	19.3	20.9	19.2	21.2	22.9	21.2	22.8	24.0	22.9	24.0	25.4	24.0	25.0	26.2	23.8	24.7	25.6	23.5	24.4	25.2	23.2	24.3	25.3	23.2	24.4	25.3	23.0	23.9	24.6	20.5	21.8	23.0	17.1	19.1	20.7	21.5	22.9	24.1
13	17.2	19.3	21.0	19.6	21.5	22.8	21.6	23.1	24.3	22.7	23.9	24.9	24.1	24.8	25.7	24.0	24.8	25.7	23.5	24.5	25.7	23.5	24.4	25.4	23.6	24.6	25.6	23.2	23.9	24.7	20.7	22.0	23.1	17.0	19.2	20.8	21.7	23.0	24.2
14	16.6	19.1	20.7	20.1	21.8	23.2	21.4	23.0	24.3	23.2	24.2	25.4	23.9	24.8	26.0	24.0	24.9	25.8	23.7	24.5	25.6	23.4	24.4	25.3	23.5	24.6	25.7	23.0	24.0	24.8	20.8	22.0	23.1	16.9	19.0	20.4	21.7	23.0	24.2
15	16.7	19.1	20.9	20.0	21.7	23.1	21.8	22.9	23.7	23.5	24.3	25.2	23.8	24.9	26.1	23.8	24.8	25.9	23.6	24.5	25.4	23.6	24.5	25.6	23.9	24.8	25.6	23.2	24.0	25.0	20.6	21.9	23.0	17.2	19.0	20.4	21.8	23.0	24.1
16	16.4	18.9	20.9	20.1	21.9	23.3	21.2	22.7	23.8	23.3	24.4	25.3	24.2	25.0	25.9	24.0	24.9	25.9	23.5	24.5	25.4	23.6	24.5	25.6	23.8	24.6	25.4	23.1	24.1	25.0	20.7	22.1	23.2	16.6	18.6	20.1	21.7	23.0	24.1
17	16.4	19.0	20.9	19.9	21.9	23.1	21.5	22.9	23.9	23.6	24.4	25.3	24.3	25.1	26.0	23.8	24.8	25.8	23.6	24.6	25.8	23.6	24.5	25.6	23.6	24.5	25.6	23.3	24.1	25.0	20.9	22.2	23.3	16.4	18.6	20.2	21.7	23.0	24.2
18	16.9	19.4	21.2	19.9	21.7	22.8	21.7	23.0	24.2	23.2	24.4	25.3	24.1	24.9	25.9	23.8	24.7	25.5	23.8	24.6	25.5	23.4	24.3	25.4	23.5	24.5	25.6	23.1	24.0	24.7	20.5	21.8	22.9	16.9	18.9	20.5	21.7	23.0	24.1
19	16.8	19.3	20.9	19.5	21.3	22.5	21.8	23.1	24.2	23.5	24.6	25.6	24.1	24.9	26.0	23.8	24.6	25.5	23.9	24.7	25.7	23.3	24.4	25.6	23.8	24.7	25.4	23.1	23.9	24.6	19.8	21.4	22.4	16.4	18.8	20.5	21.6	23.0	24.1
20	17.0	19.5	21.3	19.4	21.5	22.9	21.5	23.0	24.0	24.0	24.8	25.8	24.0	24.9	26.0	23.7	24.7	25.6	23.6	24.6	25.5	23.5	24.4	25.4	23.7	24.5	25.6	22.8	23.7	24.5	19.9	21.4	22.5	16.4	18.6	20.2	21.6	22.9	24.1
21	17.3	19.6	21.2	19.3	21.3	22.5	21.9	23.1	24.2	23.7	24.4	25.6	24.0	25.1	25.9	23.9	24.7	25.6	23.5	24.5	25.6	23.5	24.5	25.6	23.6	24.3	25.1	22.2	23.2	24.0	19.6	21.1	22.4	16.6	18.6	20.1	21.6	22.9	24.0
22	17.3	19.4	21.0	19.5	21.5	23.0	21.6	23.0	24.4	23.1	24.2	25.6	24.0	25.1	26.0	23.6	24.7	25.7	23.6	24.4	25.3	23.5	24.5	25.6	23.3	24.3	25.2	21.8	23.0	23.9	19.4	21.0	22.2	16.0	18.3	19.9	21.4	22.8	24.0
23	17.0	19.3	20.8	19.9	21.7	23.1	21.9	23.2	24.6	23.1	24.3	25.5	24.3	25.1	26.1	23.6	24.5	25.5	23.3	24.2	25.2	23.5	24.5	25.4	23.5	24.4	25.2	22.0	23.1	24.0	19.4	20.9	22.2	16.0	18.0	19.7	21.4	22.8	23.9
24	17.2	19.4	21.0	19.8	21.8	23.1	21.8	23.2	24.2	23.4	24.4	25.4	23.9	25.0	26.1	23.6	24.5	25.4	23.4	24.4	25.5	23.5	24.5	25.7	23.3	24.4	25.3	21.9	22.8	23.7	18.9	20.5	21.5	15.1	17.7	19.6	21.3	22.7	23.9
25	17.2	19.4	21.2	20.8	22.3	23.6	22.1	23.4	24.7	23.8	24.7	25.9	24.2	25.0	25.9	23.5	24.5	25.5	23.5	24.5	25.5	23.5	24.5	25.6	23.7	24.6	25.4	21.8	22.6	23.3	18.9	20.5	21.7	15.0	17.6	19.6	21.5	22.8	24.0
26	17.3	19.3	20.9	20.6	22.3	23.7	22.0	23.2	24.2	23.5	24.5	25.5	24.4	25.2	26.1	23.7	24.5	25.5	23.2	24.3	25.4	23.5	24.4	25.6	23.7	24.6	25.5	21.4	22.5	23.3	19.3	20.8	22.0	15.4	17.9	19.6	21.5	22.8	24.0
27	17.2	19.1	20.8	20.6	22.3	23.5	22.1	23.4	24.5	23.6	24.5	25.4	24.1	25.0	26.1	23.7	24.4	25.3	23.3	24.4	25.4	23.5	24.5	25.6	23.7	24.5	25.3	21.5	22.4	23.2	19.4	21.0	22.4	15.9	18.2	20.0	21.6	22.8	24.0
28	16.3	18.6	20.4	20.7	22.2	23.3	22.4	23.6	24.8	23.5	24.5	25.3	23.9	25.0	26.2	23.5	24.4	25.3	23.5	24.4	25.6	23.6	24.5	25.6	23.7	24.4	25.2	21.1	22.4	23.2	19.5	20.9	22.0	16.0	18.4	20.3	21.5	22.8	23.9
29	16.1	18.5	20.5	20.6	22.0	23.1	21.9	23.5	24.7	23.8	24.8	25.7	23.8	24.8	26.0	23.4	24.4	25.3	23.2	24.2	25.4	23.3	24.3	25.4	23.5	24.3	25.2	21.4	22.5	23.4	19.0	20.6	21.8	15.7	18.3	20.1	21.3	22.7	23.9
30	16.4	18.9	20.7				22.9	23.8	24.9	23.7	24.7	25.7	24.2	25.0	26.2	23.7	24.5	25.4	23.4	24.3	25.3	23.6	24.4	25.4	23.6	24.4	25.1	21.1	22.3	23.3	18.5	20.2	21.4	15.9	18.5	20.4	21.5	22.8	24.0
31	16.7	19.2	21.2				21.9	23.5	24.9				24.2	25.0	26.0				23.5	24.3	25.3	23.4	24.5	25.7				20.8	22.1	22.9				16.4	18.8	20.5	21.0	22.5	23.8
Average	16.8	19.2	20.9	19.3	21.2	22.6	21.2	22.6	23.8	23.2	24.2	25.3	24.0	24.9	25.9	23.9	24.8	25.7	23.5	24.4	25.5	23.5	24.4	25.5	23.6	24.5	25.4	22.6	23.5	24.3	20.1	21.5	22.6	16.6	18.7	20.3	21.5	22.8	24.0
Extremes	9.0		27.0	11.5		27.0	8.6		29.0	15.8		28.1	19.4		28.1	21.2		28.0	21.0		27.7	21.5		27.7	20.0		28.0	14.7		27.4	8.0	</							

แผนภูมิความแตกต่างระหว่างอุณหภูมิกระเปาะแห้งและอุณหภูมิกระเปาะเปียก (diurnal temperatures)



สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

ตารางแสดงผลข้อมูลอุณหภูมิจุดน้ำค้าง (dew point temperatures)

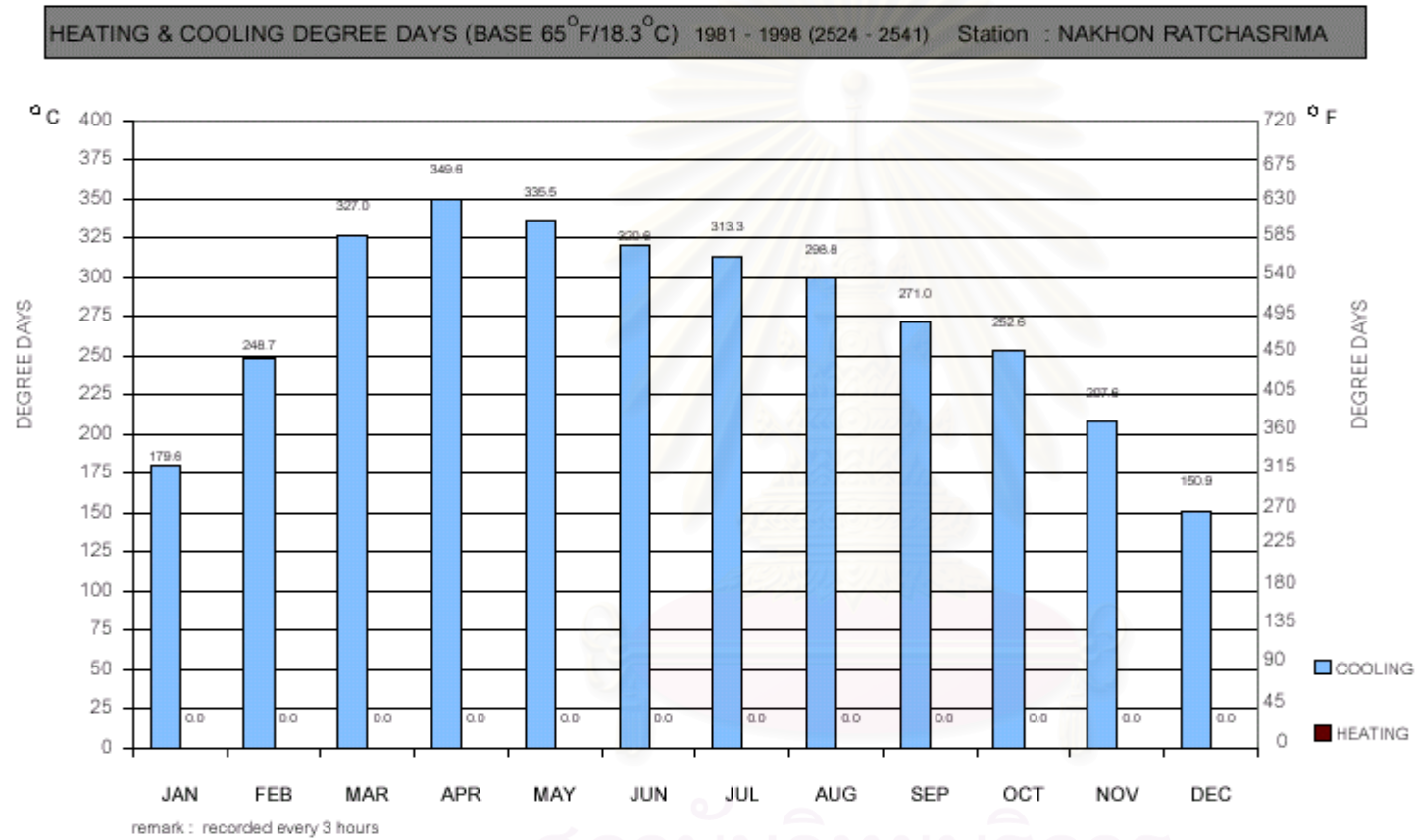
DEW POINT TEMPERATURES (°C) 1981 - 1998 (2524 - 2541) Station : NAKHON RATCHASIMA																																							
MONTH	JANUARY			FEBRUARY			MARCH			APRIL			MAY			JUNE			JULY			AUGUST			SEPTEMBER			OCTOBER			NOVEMBER			DECEMBER			ANNUAL		
DAY	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max						
1	15.5	16.0	16.9	14.5	15.8	16.5	16.9	18.8	19.7	19.2	20.6	21.5	21.5	22.5	23.1	22.7	23.3	23.7	22.0	22.5	22.9	22.4	22.6	22.9	22.9	23.1	23.4	22.7	23.2	23.5	19.2	20.1	21.3	16.1	16.8	17.7	19.6	20.5	21.1
2	15.2	16.3	17.3	15.0	15.9	16.5	16.1	17.7	18.7	19.3	21.0	21.9	21.5	22.5	23.1	22.9	23.5	23.8	22.0	22.6	23.3	22.3	22.6	23.0	22.6	23.0	23.6	22.5	22.9	23.3	19.1	20.1	21.3	15.7	16.5	17.6	19.5	20.4	21.1
3	15.6	16.8	17.7	15.7	16.6	17.6	16.6	17.6	18.9	19.4	20.9	21.6	21.4	22.6	23.2	23.0	23.5	23.8	22.2	22.6	23.0	22.2	22.7	23.2	23.0	23.2	23.4	22.4	22.8	23.2	19.9	20.4	21.4	16.4	16.9	18.1	19.8	20.6	21.3
4	16.2	17.0	17.9	16.1	17.0	17.5	17.1	18.0	18.6	19.6	21.0	21.8	21.5	22.5	23.2	23.2	23.6	23.9	22.2	22.7	22.9	22.6	23.0	23.3	22.8	23.0	23.4	22.1	22.7	23.1	19.2	20.1	21.2	16.6	17.3	18.4	19.9	20.7	21.3
5	15.3	16.6	17.3	16.2	17.3	17.8	17.1	18.0	18.5	19.9	20.8	21.4	21.4	22.2	22.9	22.9	23.3	23.7	22.4	22.7	23.0	22.7	22.9	23.2	22.7	22.9	23.5	22.0	22.6	23.0	19.2	20.0	21.4	16.7	17.2	17.8	19.9	20.6	21.1
6	15.2	16.3	16.9	16.0	17.1	17.6	16.7	17.9	18.9	19.7	20.9	21.5	21.3	22.2	22.8	22.8	23.3	23.6	22.1	22.5	22.9	22.2	22.8	23.2	22.6	22.8	23.2	21.8	22.4	23.1	19.5	20.3	21.3	16.2	16.8	17.4	19.7	20.4	21.0
7	15.1	16.1	17.1	15.8	17.0	17.9	16.3	18.3	19.2	19.3	20.9	21.6	21.1	22.3	23.0	22.8	23.2	23.4	22.0	22.6	22.8	22.5	22.7	22.9	22.8	23.0	23.3	21.6	22.5	23.2	19.6	20.4	21.3	15.2	15.8	16.6	19.5	20.4	21.0
8	15.0	16.0	16.7	14.7	16.7	17.5	17.1	18.6	19.4	19.7	21.2	21.8	21.6	22.4	22.7	22.9	23.1	23.4	22.1	22.6	23.0	22.3	22.6	23.1	22.7	23.1	23.6	22.5	22.8	23.3	19.4	20.0	20.8	14.9	15.6	16.5	19.6	20.4	21.0
9	14.7	15.6	16.6	14.9	16.9	17.5	16.2	18.5	19.5	19.8	21.1	21.9	22.2	22.9	23.2	22.4	23.0	23.4	22.3	22.6	23.0	22.6	22.7	23.0	22.9	23.2	23.6	22.8	23.1	23.6	19.1	19.6	20.3	15.1	15.9	17.4	19.6	20.4	21.1
10	14.8	15.9	17.1	16.1	17.4	18.2	17.3	18.7	19.9	19.4	21.1	21.8	22.3	22.9	23.3	22.4	22.9	23.2	22.1	22.7	23.1	22.7	22.9	23.1	22.8	23.2	23.6	22.5	22.9	23.3	18.1	18.9	19.8	15.8	16.4	17.6	19.7	20.5	21.2
11	15.3	16.1	17.1	17.0	17.9	18.8	17.3	19.4	20.4	19.5	21.0	21.8	22.2	22.9	23.4	22.6	23.0	23.8	22.4	22.7	23.0	22.4	22.6	22.8	22.9	23.1	23.3	21.9	22.5	23.2	18.3	19.1	20.3	15.6	16.5	17.7	19.8	20.6	21.3
12	14.6	16.1	16.8	17.1	18.2	19.0	17.8	19.5	20.5	19.7	21.0	21.9	22.8	23.2	23.4	22.5	22.8	23.2	22.0	22.5	23.1	22.1	22.5	22.9	22.6	23.0	23.6	22.2	22.6	23.1	19.4	19.8	20.7	15.7	16.4	17.2	19.9	20.6	21.3
13	15.3	16.3	17.1	16.3	18.3	19.1	17.7	19.8	20.8	19.9	21.1	21.7	22.2	23.1	23.6	22.7	23.1	23.4	22.3	22.6	23.1	22.2	22.6	23.2	23.1	23.3	23.8	22.2	22.7	23.1	19.8	20.2	21.0	15.9	16.5	17.3	19.9	20.8	21.4
14	14.8	16.1	16.8	16.4	18.6	19.7	17.9	19.8	20.5	20.3	21.5	22.1	22.7	23.1	23.4	22.9	23.2	23.6	22.4	22.8	23.1	22.4	22.7	23.0	23.1	23.4	23.8	22.1	22.6	23.3	19.6	20.2	20.9	15.6	16.3	17.0	20.0	20.9	21.4
15	14.8	16.0	16.7	15.7	18.2	19.1	16.9	19.4	20.8	20.5	21.8	22.6	22.6	23.1	23.4	22.6	22.9	23.4	22.5	22.8	23.2	22.5	22.8	23.2	23.0	23.5	24.0	22.3	22.8	23.3	19.1	19.9	20.7	15.3	16.1	16.9	19.8	20.8	21.4
16	15.0	15.9	16.5	17.1	18.7	19.4	17.4	19.0	19.8	20.6	21.8	22.4	22.4	23.1	23.4	22.3	22.9	23.4	22.2	22.7	23.3	22.7	22.9	23.3	22.7	23.3	23.8	22.6	22.9	23.6	19.5	20.1	21.0	14.8	15.8	16.6	19.9	20.8	21.4
17	15.0	15.8	16.9	16.5	18.5	19.4	16.9	19.2	20.1	20.7	21.8	22.7	22.7	23.3	23.6	22.0	22.7	23.0	22.3	22.7	23.0	22.7	22.9	23.2	22.8	23.2	23.6	22.6	23.0	23.4	19.7	20.3	21.0	14.9	15.7	16.7	19.9	20.8	21.4
18	15.0	16.3	17.0	16.3	18.2	19.2	17.2	19.6	20.6	20.3	21.6	22.4	22.7	23.2	23.5	21.7	22.6	23.0	21.6	22.7	23.3	22.6	22.7	23.4	23.1	23.3	23.7	22.0	22.7	23.3	19.4	19.9	20.5	15.3	16.0	16.9	19.8	20.7	21.4
19	14.7	16.1	17.1	15.4	17.6	18.6	17.3	19.6	20.9	20.0	21.8	22.4	22.7	23.1	23.6	22.1	22.6	23.1	22.6	23.0	23.4	22.5	22.9	23.5	23.1	23.5	23.9	22.2	22.7	23.2	18.5	19.2	20.5	15.2	15.8	16.6	19.7	20.6	21.4
20	15.6	16.4	17.4	16.4	18.0	18.6	17.1	19.4	20.5	21.1	22.3	22.8	22.6	23.0	23.5	22.2	22.6	23.0	22.2	22.7	23.0	22.7	22.8	23.3	22.9	23.2	23.4	21.8	22.3	22.9	18.7	19.3	20.2	14.7	15.5	16.3	19.8	20.6	21.2
21	15.1	16.4	17.5	15.9	17.8	18.9	17.5	19.6	20.7	20.7	21.9	22.6	22.3	23.2	23.6	21.9	22.6	23.1	22.6	22.8	23.1	22.6	22.9	23.0	22.4	23.0	23.4	20.7	21.5	22.2	18.1	19.1	19.9	14.6	15.4	16.2	19.5	20.5	21.2
22	15.0	16.2	17.0	16.8	18.1	18.9	18.1	19.6	20.4	21.3	21.7	22.2	22.4	23.1	23.5	22.2	22.6	23.0	22.1	22.6	22.8	22.6	22.8	23.3	22.6	23.0	23.6	20.8	21.3	22.2	18.2	18.8	19.6	14.2	15.2	16.1	19.7	20.4	21.0
23	14.6	15.9	16.8	17.0	18.5	19.2	18.8	20.1	20.8	20.7	21.6	22.3	22.4	23.1	23.7	21.8	22.2	22.8	22.1	22.5	23.0	22.7	23.0	23.4	22.8	23.2	23.7	21.0	21.6	22.3	18.1	18.7	19.3	13.9	14.9	15.5	19.7	20.4	21.1
24	15.1	16.1	16.9	17.1	18.6	19.5	18.3	20.1	20.9	20.9	21.8	22.7	22.4	23.0	23.4	21.7	22.3	22.9	22.5	22.7	23.1	22.8	23.1	23.5	22.7	23.2	24.1	20.3	21.1	21.8	17.3	18.1	19.0	13.8	14.6	16.3	19.6	20.4	21.2
25	15.6	16.2	16.8	18.1	19.2	19.9	18.7	20.3	20.9	21.4	22.3	22.8	22.7	23.4	23.8	22.0	22.3	23.0	22.4	22.7	23.0	22.8	23.1	23.3	23.1	23.4	23.8	20.3	21.0	21.5	17.4	18.2	19.4	13.9	14.5	15.6	19.9	20.6	21.2
26	15.9	16.4	17.2	17.8	19.2	20.0	18.7	20.2	21.3	21.1	22.1	22.6	22.8	23.6	23.9	22.1	22.5	22.8	22.0	22.4	22.8	22.7	22.9	23.2	23.2	23.4	23.7	19.8	20.7	21.7	17.8	18.5	19.3	13.5	14.8	16.1	19.8	20.6	21.2
27	15.5	16.0	16.8	17.6	19.2	19.9	19.1	20.4	21.0	20.7	22.1	22.7	23.1	23.4	23.7	21.9	22.5	22.9	22.2	22.5	23.0	22.4	22.9	23.4	22.9	23.4	23.8	19.9	20.6	21.3	18.3	18.7	19.4	14.3	15.1	16.0	19.8	20.5	21.2
28	14.6	15.4	16.2	17.9	19.3	19.9	19.2	20.7	21.3	20.6	21.9	22.5	23.0	23.4	23.7	22.0	22.4	22.7	22.1	22.5	22.7	22.6	22.9	23.2	22.7	23.2	23.6	19.9	20.7	21.9	18.1	18.6	19.1	14.5	15.3	15.8	19.8	20.5	21.1
29	14.1	15.2	15.9	16.8	18.9	20.2	18.9	20.4	21.3	21.4	22.4	23.3	22.9	23.4	23.7	21.4	22.3	23.1	21.9	22.3	22.7	22.5	22.7	23.1	22.6	23.1	23.5	20.3	20.9	21.9	17.5	18.2	18.9	14.4	15.3	16.5	19.6	20.4	21.2
30	13.9	15.3	16.4				19.1	20.7	21.7	21.7	22.5	23.3	23.0	23.3	23.6	21.8	22.5	22.8	21.8	22.4	22.7	22.6	22.9	23.2	22.9	23.3	23.6	20.0	20.5	21.5	16.9	17.6	18.4	14.6	15.4	16.6	19.9	20.6	21.3
31	14.9	15.8	16.4				19.3	20.5	21.2				22.8	23.3	23.6				22.3	22.6	23.0							19.5	20.3	21.5				14.7	15.8	16.7	19.5	20.2	20.9
Average	15.1	16.1	16.9	16.4	17.9	18.7	17.6	19.3	20.3	20.3	21.5	22.2	22.3	23.0	23.4	22.3	22.8	23.2	22.2	22.6	23.0	22.5	22.8	23.2	22.8	23.2	23.6	21.5	22.1	22.7	18.7	19.4	20.3	15.1	15.9	16.8	19.7	20.6	21.2
Extremes	1.7		24.5	2.6		25.3	2.5		24.7	11.1		25.7	12.5		28.0	16.8		26.9	17.5		26.4	19.4		25.8	15.1		26.4	10.9		25.8	6.4		25.7	1.7		24.4	1.7		

ตารางแสดงผลข้อมูลปริมาณองศาวัน การทำความร้อนและการทำความร้อน (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 RATCHASIMA													
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	110.7	0.0	184.2	0.0	258.1	0.0	283.0	0.0	266.6	0.0	253.9	0.0	244.5	0.0	229.9	0.0	204.3	0.0	183.7	0.0	141.0	0.0	82.1	0.0	2,441.8	0.0
70	21.1	93.5	0.0	168.1	0.0	240.8	0.0	266.3	0.0	249.4	0.0	237.2	0.0	227.2	0.0	212.7	0.0	187.6	0.0	166.5	0.0	124.3	0.0	64.8	0.0	2,238.5	0.0
71	21.7	76.3	0.0	152.0	0.0	223.6	0.0	249.6	0.0	232.1	0.0	220.6	0.0	210.0	0.0	195.4	0.0	171.0	0.0	149.3	0.0	107.6	0.0	47.6	0.0	2,035.2	0.0
72	22.2	59.0	0.0	135.9	0.0	206.4	0.0	233.0	0.0	214.9	0.0	203.9	0.0	192.8	0.0	178.2	0.0	154.3	0.0	132.0	0.0	91.0	0.0	30.5	-0.1	1,832.0	-0.1
73	22.8	41.8	0.0	119.8	0.0	189.2	0.0	216.3	0.0	197.7	0.0	187.2	0.0	175.6	0.0	161.0	0.0	137.6	0.0	114.8	0.0	74.3	0.0	14.7	-1.5	1,630.0	-1.5
74	23.3	24.6	0.0	103.7	0.0	172.0	0.0	199.6	0.0	180.5	0.0	170.6	0.0	158.3	0.0	143.8	0.0	121.0	0.0	97.6	0.0	57.6	0.0	3.1	-7.1	1,432.3	-7.1
75	23.9	9.2	-1.8	87.6	0.0	154.7	0.0	183.0	0.0	163.3	0.0	153.9	0.0	141.1	0.0	126.6	0.0	104.3	0.0	80.4	0.0	41.0	0.0	0.0	-21.3	1,244.9	-23.1
76	24.4	1.2	-11.1	71.5	0.0	137.5	0.0	166.3	0.0	146.0	0.0	137.2	0.0	123.9	0.0	109.3	0.0	87.6	0.0	63.2	0.0	24.3	0.0	0.0	-38.5	1,068.1	-49.6
77	25.0	0.0	-27.1	55.4	0.0	120.3	0.0	149.6	0.0	128.8	0.0	120.6	0.0	106.7	0.0	92.1	0.0	71.0	0.0	45.9	0.0	10.0	-2.3	0.0	-55.7	900.3	-85.1
78	25.6	0.0	-44.3	40.5	-1.2	103.1	0.0	133.0	0.0	111.6	0.0	103.9	0.0	89.5	0.0	74.9	0.0	54.3	0.0	28.8	-0.1	1.7	-10.7	0.0	-72.9	741.1	-129.3
79	26.1	0.0	-61.5	27.6	-4.5	85.8	0.0	116.3	0.0	94.4	0.0	87.2	0.0	72.2	0.0	57.7	0.0	37.6	0.0	13.7	-2.2	0.0	-25.7	0.0	-90.2	592.6	-184.1
80	26.7	0.0	-78.7	17.7	-10.7	68.6	0.0	99.6	0.0	77.1	0.0	70.6	0.0	55.0	0.0	40.4	0.0	21.0	0.0	2.5	-8.2	0.0	-42.4	0.0	-107.4	452.6	-247.4
81	27.2	0.0	-96.0	8.4	-17.5	52.9	-1.5	83.0	0.0	59.9	0.0	53.9	0.0	37.8	0.0	23.2	0.0	5.6	-1.3	0.0	-23.0	0.0	-59.0	0.0	-124.6	324.7	-322.8
82	27.8	0.0	-113.2	1.1	-26.3	38.6	-4.4	66.3	0.0	43.3	-0.6	37.2	0.0	20.6	0.0	6.8	-0.8	0.6	-13.0	0.0	-40.2	0.0	-75.7	0.0	-141.8	214.5	-416.0
83	28.3	0.0	-130.4	0.0	-41.3	25.4	-8.4	49.6	0.0	26.6	-1.1	20.6	0.0	5.5	-2.1	0.4	-11.6	0.0	-29.0	0.0	-57.4	0.0	-92.4	0.0	-159.1	128.1	-532.9
84	28.9	0.0	-147.6	0.0	-57.4	13.2	-13.5	33.0	0.0	11.5	-3.2	5.9	-2.0	0.3	-14.2	0.0	-28.4	0.0	-45.7	0.0	-74.6	0.0	-109.0	0.0	-176.3	63.8	-672.0
85	29.4	0.0	-164.8	0.0	-73.5	2.9	-20.4	16.3	0.0	3.5	-12.5	0.1	-12.9	0.0	-31.1	0.0	-45.7	0.0	-62.4	0.0	-91.8	0.0	-125.7	0.0	-193.5	22.8	-834.3
86	30.0	0.0	-182.1	0.0	-89.6	0.0	-34.7	3.4	-3.8	0.6	-26.7	0.0	-29.4	0.0	-48.3	0.0	-62.9	0.0	-79.0	0.0	-109.1	0.0	-142.4	0.0	-210.7	4.0	-1,018.8
87	30.6	0.0	-199.3	0.0	-105.8	0.0	-51.9	0.1	-17.2	0.0	-43.4	0.0	-46.1	0.0	-65.5	0.0	-80.1	0.0	-95.7	0.0	-126.3	0.0	-159.0	0.0	-227.9	0.1	-1,218.3
88	31.1	0.0	-216.5	0.0	-121.9	0.0	-69.2	0.0	-33.7	0.0	-60.6	0.0	-62.8	0.0	-82.8	0.0	-97.3	0.0	-112.4	0.0	-143.5	0.0	-175.7	0.0	-245.2	0.0	-1,421.5
89	31.7	0.0	-233.7	0.0	-138.0	0.0	-86.4	0.0	-50.4	0.0	-77.9	0.0	-79.4	0.0	-100.0	0.0	-114.6	0.0	-129.0	0.0	-160.7	0.0	-192.4	0.0	-262.4	0.0	-1,624.8
90	32.2	0.0	-251.0	0.0	-154.1	0.0	-103.6	0.0	-67.0	0.0	-95.1	0.0	-96.1	0.0	-117.2	0.0	-131.8	0.0	-145.7	0.0	-178.0	0.0	-209.0	0.0	-279.6	0.0	-1,828.2
91	32.8	0.0	-268.2	0.0	-170.2	0.0	-120.8	0.0	-83.7	0.0	-112.3	0.0	-112.8	0.0	-134.4	0.0	-149.0	0.0	-162.4	0.0	-195.2	0.0	-225.7	0.0	-296.8	0.0	-2,031.5
92	33.3	0.0	-285.4	0.0	-186.3	0.0	-138.0	0.0	-100.4	0.0	-129.5	0.0	-129.4	0.0	-151.7	0.0	-166.2	0.0	-179.0	0.0	-212.4	0.0	-242.4	0.0	-314.1	0.0	-2,234.8
93	33.9	0.0	-302.6	0.0	-202.4	0.0	-155.3	0.0	-117.0	0.0	-146.7	0.0	-146.1	0.0	-168.9	0.0	-183.4	0.0	-195.7	0.0	-229.6	0.0	-259.0	0.0	-331.3	0.0	-2,438.2
94	34.4	0.0	-319.8	0.0	-218.5	0.0	-172.5	0.0	-133.7	0.0	-164.0	0.0	-162.8	0.0	-186.1	0.0	-200.7	0.0	-212.4	0.0	-246.8	0.0	-275.7	0.0	-348.5	0.0	-2,641.5
95	35.0	0.0	-337.1	0.0	-234.6	0.0	-189.7	0.0	-150.4	0.0	-181.2	0.0	-179.4	0.0	-203.3	0.0	-217.9	0.0	-229.0	0.0	-264.1	0.0	-292.4	0.0	-365.7	0.0	-2,844.8
96	35.6	0.0	-354.3	0.0	-250.8	0.0	-206.9	0.0	-167.0	0.0	-198.4	0.0	-196.1	0.0	-220.5	0.0	-235.1	0.0	-245.7	0.0	-281.3	0.0	-309.0	0.0	-382.9	0.0	-3,048.2
97	36.1	0.0	-371.5	0.0	-266.9	0.0	-224.2	0.0	-183.7	0.0	-215.6	0.0	-212.8	0.0	-237.8	0.0	-252.3	0.0	-262.4	0.0	-298.5	0.0	-325.7	0.0	-400.2	0.0	-3,251.5
98	36.7	0.0	-388.7	0.0	-283.0	0.0	-241.4	0.0	-200.4	0.0	-232.9	0.0	-229.4	0.0	-255.0	0.0	-269.6	0.0	-279.0	0.0	-315.7	0.0	-342.4	0.0	-417.4	0.0	-3,454.8
99	37.2	0.0	-406.0	0.0	-299.1	0.0	-258.6	0.0	-217.0	0.0	-250.1	0.0	-246.1	0.0	-272.2	0.0	-286.8	0.0	-295.7	0.0	-333.0	0.0	-359.0	0.0	-434.6	0.0	-3,658.2
100	37.8	0.0	-423.2	0.0	-315.2	0.0	-275.8	0.0	-233.7	0.0	-267.3	0.0	-262.8	0.0	-289.4	0.0	-304.0	0.0	-312.4	0.0	-350.2	0.0	-375.7	0.0	-451.8	0.0	-3,861.5

จุฬาลงกรณ์มหาวิทยาลัย

แผนภูมิปริมาณองศาวัน การทำความร้อนและการทำความเย็น (heating and cooling degree days)

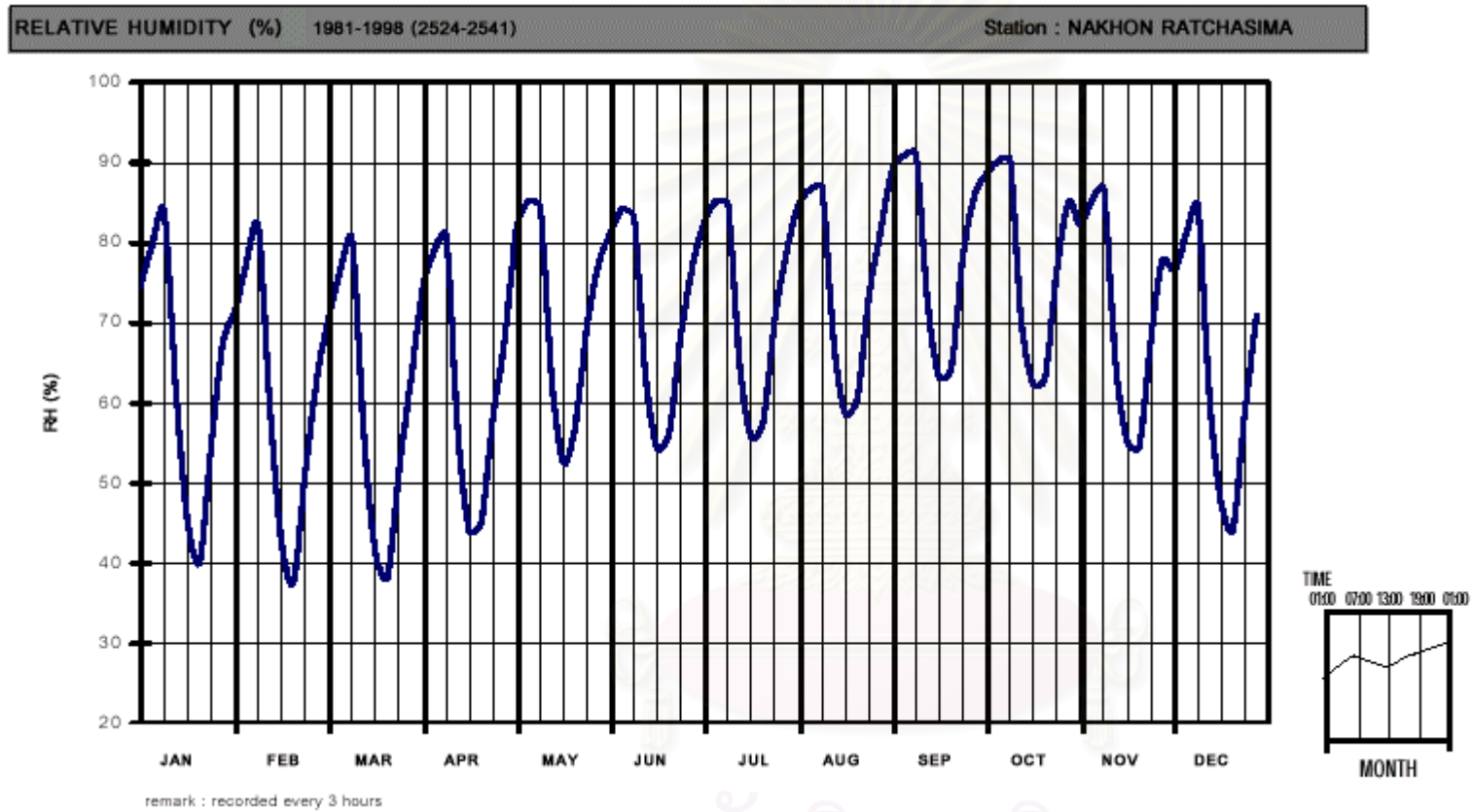


สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

ตารางแสดงผลข้อมูลความชื้นสัมพัทธ์ (relative humidity)

RELATIVE HUMIDITY (%) 1981 - 1998 (2524 - 2541)													Station : NAKHON RATCHASIMA																										
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	41.9	64.9	86.6	36.7	59.6	81.5	38.3	61.4	81.6	41.3	62.0	80.9	46.4	66.8	84.4	54.2	71.6	85.7	53.3	69.8	83.3	57.8	73.3	85.4	59.3	76.6	89.2	63.7	80.2	92.3	58.1	73.8	86.2	49.3	66.2	79.9	50.0	68.8	84.7
2	40.5	64.6	85.6	37.9	59.1	79.8	39.4	59.9	80.4	38.1	60.8	82.2	45.4	66.4	82.5	52.3	72.3	85.3	52.6	70.0	83.4	58.3	72.6	84.7	57.7	75.4	88.8	64.5	80.1	92.2	57.2	74.1	86.4	48.1	67.0	82.8	49.3	68.5	84.5
3	40.7	65.8	87.1	38.4	60.6	80.9	38.3	59.3	77.8	40.8	60.2	78.9	50.0	67.0	82.3	54.9	73.0	86.8	52.4	70.6	83.9	55.7	72.1	84.7	62.2	78.2	91.1	63.7	80.2	92.2	60.7	76.0	89.9	49.9	68.7	85.0	50.6	69.3	85.1
4	42.1	66.1	86.9	38.9	60.5	81.0	39.9	60.2	78.6	41.8	61.9	81.8	45.7	65.9	81.5	54.1	74.0	87.0	53.9	72.9	84.5	59.4	75.4	88.2	58.6	76.2	89.6	63.7	80.5	91.3	57.7	74.4	87.4	50.0	69.7	86.3	50.5	69.8	85.3
5	40.9	65.5	85.6	39.3	61.9	82.8	42.1	61.0	80.1	42.6	62.0	81.9	50.6	67.6	82.9	56.1	74.7	86.0	55.7	74.5	86.3	57.9	76.4	87.6	59.4	76.4	89.8	62.8	79.3	91.1	55.4	73.7	88.8	47.9	68.1	86.4	50.9	70.1	85.8
6	40.9	65.1	86.5	38.9	61.4	82.0	39.8	60.7	80.3	41.5	60.5	80.4	47.5	67.0	83.7	56.4	74.0	87.3	55.0	73.1	85.9	56.8	76.2	88.6	58.3	75.9	88.4	60.8	77.6	89.9	55.9	75.0	89.6	47.1	67.0	85.9	49.9	69.5	85.7
7	41.9	64.6	85.1	37.4	61.6	82.6	36.5	59.6	79.9	38.0	59.0	80.0	47.0	67.1	82.2	55.6	72.9	85.8	51.9	71.0	86.2	59.3	74.8	86.7	62.3	78.7	90.2	58.1	77.7	91.0	54.0	73.7	90.2	45.6	65.4	83.7	49.0	68.9	85.3
8	42.7	65.2	85.3	34.7	59.7	81.7	36.8	59.2	80.7	41.6	62.1	80.8	51.7	69.2	84.6	55.9	73.7	86.6	54.2	71.4	84.5	57.4	74.8	87.2	61.4	79.3	90.2	63.1	79.4	91.5	55.0	71.9	86.1	44.9	65.8	82.6	49.9	69.3	85.1
9	40.9	64.1	84.7	36.9	60.0	82.0	34.7	58.2	80.3	41.6	62.2	81.3	53.8	72.0	82.9	56.6	72.4	86.3	56.2	72.8	84.1	59.7	74.3	86.5	66.1	80.6	91.2	66.6	81.7	92.1	55.9	71.3	83.9	43.8	66.2	86.3	51.1	69.7	85.1
10	39.4	64.3	85.7	39.7	61.7	81.3	37.4	57.6	78.2	40.1	60.7	80.0	53.7	72.6	86.2	55.1	72.0	85.1	54.2	73.4	86.4	60.4	77.1	88.6	64.8	80.5	90.7	66.6	81.2	92.8	55.2	70.8	84.6	47.0	67.5	85.2	51.1	69.9	85.4
11	40.5	63.9	84.0	41.5	63.0	82.0	36.3	59.1	82.4	40.2	59.9	80.2	50.9	71.5	86.1	57.9	73.3	85.2	57.6	74.3	86.4	58.3	74.6	87.7	63.1	80.1	92.4	65.3	80.3	91.2	53.1	71.4	85.8	45.3	67.2	84.8	50.8	69.9	85.7
12	37.9	62.9	86.1	40.9	62.7	81.7	36.3	59.4	80.9	40.5	61.1	80.3	52.3	72.9	86.7	57.6	72.0	84.4	55.6	72.1	86.2	55.7	72.4	85.8	60.3	78.4	92.3	64.3	80.4	91.1	55.9	72.6	87.7	44.2	66.4	84.8	50.1	69.4	85.7
13	39.8	63.8	86.6	35.9	61.9	85.6	34.9	59.2	82.2	46.0	63.1	79.7	53.3	73.7	87.2	56.5	73.6	87.3	55.3	72.1	84.9	55.3	72.1	84.6	62.3	79.4	91.9	63.2	79.9	92.3	56.7	74.2	88.0	45.3	67.1	86.4	50.4	70.0	86.4
14	39.5	64.2	86.3	35.3	61.4	85.2	38.1	60.2	80.8	44.6	63.2	81.8	55.0	73.1	86.7	55.8	73.2	87.2	57.5	73.4	85.4	58.3	73.8	84.4	63.4	80.6	93.2	61.3	78.9	91.9	57.5	74.4	88.4	42.3	65.1	84.6	50.7	70.1	86.3
15	39.1	64.0	84.5	34.9	60.1	82.4	34.4	58.4	82.3	47.8	65.1	81.7	54.2	72.3	86.8	53.6	70.9	84.0	58.2	74.3	86.1	56.4	73.3	86.0	61.9	79.4	92.7	64.7	79.9	90.8	52.9	72.2	87.6	45.2	65.1	83.4	50.3	69.6	85.7
16	39.6	63.6	85.7	37.4	60.7	83.2	34.8	56.6	79.6	44.8	64.7	81.5	53.3	70.9	85.7	52.8	70.0	84.3	55.4	73.4	87.1	58.2	75.0	87.4	63.6	79.7	92.5	64.6	80.9	92.8	53.8	71.9	87.1	44.3	65.7	84.9	50.2	69.4	86.0
17	39.6	63.0	85.4	35.1	59.5	82.4	33.7	56.3	78.4	44.8	65.0	82.4	53.4	72.5	85.3	51.1	68.9	82.2	54.4	71.7	85.8	59.9	75.7	87.5	63.0	80.0	91.8	63.9	81.6	92.7	54.1	72.3	87.5	44.1	65.8	85.2	49.8	69.4	85.5
18	38.1	63.2	84.9	37.3	59.4	81.7	36.0	58.2	80.7	41.2	62.5	82.3	57.4	74.3	86.3	50.3	69.4	82.9	53.9	71.9	85.4	59.1	75.4	86.8	65.6	80.7	92.2	62.8	80.7	92.7	54.7	72.6	88.2	44.3	65.6	84.9	50.1	69.5	85.8
19	37.9	62.8	84.4	33.7	57.7	80.9	34.1	57.8	79.4	40.8	61.9	79.7	54.8	73.2	86.0	53.2	70.3	83.0	56.4	73.3	87.2	60.9	76.7	87.1	66.4	80.5	92.0	64.8	80.6	91.7	51.0	70.9	86.1	43.4	64.6	83.1	49.8	69.2	85.1
20	40.2	63.3	83.1	35.0	58.7	83.1	34.7	57.6	78.9	45.5	64.8	79.2	53.1	72.4	86.6	52.8	69.5	83.7	54.0	72.1	86.2	59.7	75.8	88.0	62.7	79.9	91.4	63.2	78.8	90.9	52.4	71.5	87.5	42.2	63.6	84.1	49.6	69.0	85.2
21	38.2	62.1	82.4	34.6	58.3	81.2	37.4	58.2	80.1	46.1	64.8	80.8	51.3	71.7	85.6	51.8	69.0	83.6	59.9	74.1	85.0	59.1	75.2	88.2	63.8	80.1	91.8	57.6	75.1	88.7	55.8	72.3	87.4	42.0	62.9	82.5	49.8	68.6	84.8
22	39.4	62.1	82.7	36.7	59.2	81.7	36.2	58.3	78.9	46.3	65.3	81.5	53.1	70.9	83.7	52.7	68.2	81.9	55.8	73.2	86.7	57.6	74.3	87.7	63.6	79.0	91.1	59.3	76.1	90.9	51.8	70.6	86.8	41.8	63.8	83.5	49.5	68.4	84.7
23	37.9	61.3	81.9	38.2	60.7	83.0	41.5	60.4	79.1	44.1	64.1	81.4	51.6	69.8	84.5	50.2	66.5	79.4	56.9	73.9	84.8	61.3	76.1	85.7	63.3	79.7	91.8	61.0	76.8	89.5	50.8	70.2	87.9	41.3	63.9	85.0	49.8	68.6	84.5
24	39.8	61.2	78.7	37.9	60.4	79.9	40.1	60.8	81.9	45.8	64.4	79.5	52.5	70.1	82.7	51.6	67.6	81.5	59.5	74.3	86.7	62.3	78.0	89.2	63.3	79.7	91.6	57.8	75.0	88.4	50.2	68.6	86.0	41.0	64.7	84.8	50.2	68.7	84.2
25	41.6	62.0	79.8	39.0	61.4	82.3	39.4	60.7	80.6	46.9	66.6	81.8	55.2	75.5	86.6	53.9	68.0	78.9	56.6	73.6	86.4	63.1	78.1	88.4	65.2	80.5	92.3	61.4	76.3	88.8	51.0	69.5	86.6	41.9	65.0	85.8	51.3	69.8	84.9
26	47.2	64.5	80.1	38.7	61.7	81.6	41.9	61.9	83.3	46.1	66.0	84.0	56.1	75.1	88.6	53.6	69.2	81.8	54.6	71.2	84.8	60.7	76.3	88.9	65.9	81.3	91.5	56.3	74.2	88.9	50.6	69.5	85.4	39.8	64.3	85.9	51.0	69.6	85.4
27	43.4	62.5	79.6	38.4	61.2	82.7	44.1	62.0	80.9	45.7	65.9	82.3	57.9	74.6	86.3	54.1	71.7	84.3	54.7	71.3	83.7	55.2	74.6	88.8	63.9	80.9	93.3	57.9	74.1	88.8	54.4	69.8	84.9	41.9	63.6	82.9	51.0	69.4	84.9
28	40.2	61.7	79.7	41.0	63.1	81.1	41.6	61.9	82.7	43.4	64.8	80.1	54.1	74.8	86.6	54.9	70.9	83.3	53.9	70.5	83.4	58.2	74.8	86.8	63.6	80.2	92.6	56.3	75.1	90.4	51.8	69.5	84.8	41.7	63.9	85.7	50.1	69.3	84.8
29	37.4	61.4	83.3	37.0	62.1	83.8	41.2	60.5	80.4	47.8	67.1	83.2	55.4	74.6	87.3	51.6	69.9	83.7	54.3	70.9	83.6	58.0	75.3	87.0	65.1	81.0	92.8	60.9	76.5	89.6	50.8	69.0	85.3	41.8	64.8	85.4	50.1	69.4	85.4
30	35.7	59.9	82.2				41.2	61.4	81.5	49.4	68.0	80.6	56.0	73.0	86.4	52.5	70.0	84.1	56.1	72.7	85.2	59.6	76.2	88.4	66.3	81.4	92.1	58.4	73.6	85.5	48.6	67.2	83.9	41.8	64.2	83.6	51.4	69.8	84.9
31	38.1	60.1	81.9				42.4	62.6	80.5				55.2	73.6	87.3				58.9	74.0	85.7							58.9	75.0	88.1				41.7	64.6	85.8	50.2	69.4	85.4
Average	40.1	63.3	83.9	37.5	60.7	82.1	38.2	59.6	80.4	43.5	63.3	81.1	52.5	71.4	85.2	54.0	71.1	84.3	55.4	72.5	85.3	58.6	75.0	87.1	62.9	79.3	91.4	61.9	78.3	90.7	54.1	71.8	86.9	44.2	65.6	84.6	50.2	69.3	85.3
Extremes	21	97	15	99	15	98	19	99	28	98	32	97	33	99	38	98	38	98	38	99	38	98	38	99	33	100	27	99	19	98	15	100							

แผนภูมิความชื้นสัมพัทธ์ (relative humidity)



สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

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

MONTHLY FREQUENCY DISTRIBUTION OF WIND IN EACH SPEED AND DIRECTION 1981 - 1998 (2524 - 2541)													Station : NAKHON RATCHASIMA																									
January			N	NE	E	SE	S	SW	W	NW	Calm	Total	February			N	NE	E	SE	S	SW	W	NW	Calm	Total	March			N	NE	E	SE	S	SW	W	NW	Calm	Total
kts	km/h	m/s	60.4 60.4										kts	km/h	m/s	59.5 59.5										kts	km/h	m/s	54.4 54.4									
1-3	2-6	0.6-1.5	3.6	9.6	5.4	1.1	0.5	0.4	0.4	0.6		21.6	1-3	2-6	0.6-1.5	2.8	5.8	3.3	2	2.7	2.6	1.8	1.4		22.4	1-3	2-6	0.6-1.5	1.7	3.8	2.4	2.3	5.8	4.5	2.1	1.3		23.9
4-16	7-30	1.6-8.5	1.9	11	3.9	0.6	0.2	0.1	0.1	0.2		18	4-16	7-30	1.6-8.5	1.5	6.7	2.8	1.2	2.3	1.8	1	0.5		17.8	4-16	7-30	1.6-8.5	1.3	4.5	2.5	2	5.3	3.5	1.5	1		21.6
17-27	31-50	8.6-14	0	0	0	0	0	0	0	0		0	17-27	31-50	8.6-14	0	0	0	0	0	0	0	0		0	17-27	31-50	8.6-14	0	0	0	0	0	0	0	0		0
>27	>50	>14	0	0	0	0	0	0	0	0		0	>27	>50	>14	0	0	0	0	0	0	0	0		0	>27	>50	>14	0	0	0	0	0	0	0	0		0
Total			5.5	20.6	9.3	1.7	0.7	0.5	0.5	0.8		60.4 100	Total			4.3	12.5	6.1	3.2	5	4.4	2.8	1.9		59.5 100	Total			3	8.3	4.9	4.3	11.1	8	3.6	2.3		54.4 100
April			N	NE	E	SE	S	SW	W	NW	Calm	Total	May			N	NE	E	SE	S	SW	W	NW	Calm	Total	June			N	NE	E	SE	S	SW	W	NW	Calm	Total
kts	km/h	m/s	52.6 52.6										kts	km/h	m/s	54.1 54.1										kts	km/h	m/s	45.6 45.6									
1-3	2-6	0.6-1.5	1.6	1.8	2.1	2.6	7.2	4.6	2.5	1.6		24	1-3	2-6	0.6-1.5	1.1	1.1	1.4	3	6.4	4.8	2.8	1.3		21.9	1-3	2-6	0.6-1.5	0.2	0.2	0.3	1.3	6.1	9.1	3.9	0.5		21.6
4-16	7-30	1.6-8.5	1.6	2.8	1.8	2.9	7	4.3	2	0.8		23.2	4-16	7-30	1.6-8.5	0.8	1.4	1.5	2.6	7.8	5.9	3	0.9		23.9	4-16	7-30	1.6-8.5	0.2	0.1	0.3	0.9	8.4	13.7	8.2	0.8		32.6
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			3.2	4.6	3.9	5.5	14.2	8.9	4.5	2.4		52.6 100	Total			1.9	2.5	2.9	5.6	14.2	10.7	5.8	2.2		54.1 100	Total			0.4	0.3	0.6	2.2	14.5	22.8	12.1	1.3		45.6 100
July			N	NE	E	SE	S	SW	W	NW	Calm	Total	August			N	NE	E	SE	S	SW	W	NW	Calm	Total	September			N	NE	E	SE	S	SW	W	NW	Calm	Total
kts	km/h	m/s	47 47										kts	km/h	m/s	48.7 48.7										kts	km/h	m/s	61.3 61.3									
1-3	2-6	0.6-1.5	0.4	0.1	0.4	1.6	5.4	7.9	3.9	0.9		20.6	1-3	2-6	0.6-1.5	0.6	0.2	0.4	0.9	3.6	9	5.6	1.3		21.6	1-3	2-6	0.6-1.5	2.5	2.5	1.6	1.9	2.4	3.3	3.7	1.9		19.8
4-16	7-30	1.6-8.5	0.3	0.2	0.3	1.2	5.5	13.6	9.9	1.3		32.3	4-16	7-30	1.6-8.5	0.2	0.1	0.1	0.6	3.7	13	10.3	1.5		29.5	4-16	7-30	1.6-8.5	2	3.2	1.5	0.9	1.8	3.1	4.9	1.6		19
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			0.7	0.3	0.7	2.8	10.9	21.5	13.8	2.2		47 100	Total			0.8	0.3	0.5	1.5	7.3	22	15.9	2.8		48.7 100	Total			4.5	5.7	3.1	2.6	4.2	6.4	8.6	3.5		61.3 100
October			N	NE	E	SE	S	SW	W	NW	Calm	Total	November			N	NE	E	SE	S	SW	W	NW	Calm	Total	December			N	NE	E	SE	S	SW	W	NW	Calm	Total
kts	km/h	m/s	55.3 55.3										kts	km/h	m/s	49.9 49.9										kts	km/h	m/s	52.4 52.4									
1-3	2-6	0.6-1.5	4.1	7.1	3.6	1.3	0.8	0.9	1	1.6		20.3	1-3	2-6	0.6-1.5	4	12.1	3.5	0.3	0.2	0.1	0.5	0.9		21.6	1-3	2-6	0.6-1.5	4.2	12.9	3.6	0.5	0.2	0.1	0.2	0.5		22.2
4-16	7-30	1.6-8.5	4.5	12	3.6	1.1	0.6	0.8	0.9	0.8		24.3	4-16	7-30	1.6-8.5	3.9	18.3	5.1	0.3	0.1	0	0.2	0.4		28.3	4-16	7-30	1.6-8.5	3.7	17.4	3.7	0.2	0.1	0	0	0.2		25.3
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			8.6	19.1	7.2	2.4	1.4	1.7	1.9	2.3		55.3 100	Total			7.9	30.4	8.6	0.6	0.3	0.1	0.7	1.3		49.9 100	Total			7.9	30.3	7.3	0.7	0.3	0.1	0.2	0.7		52.4 100

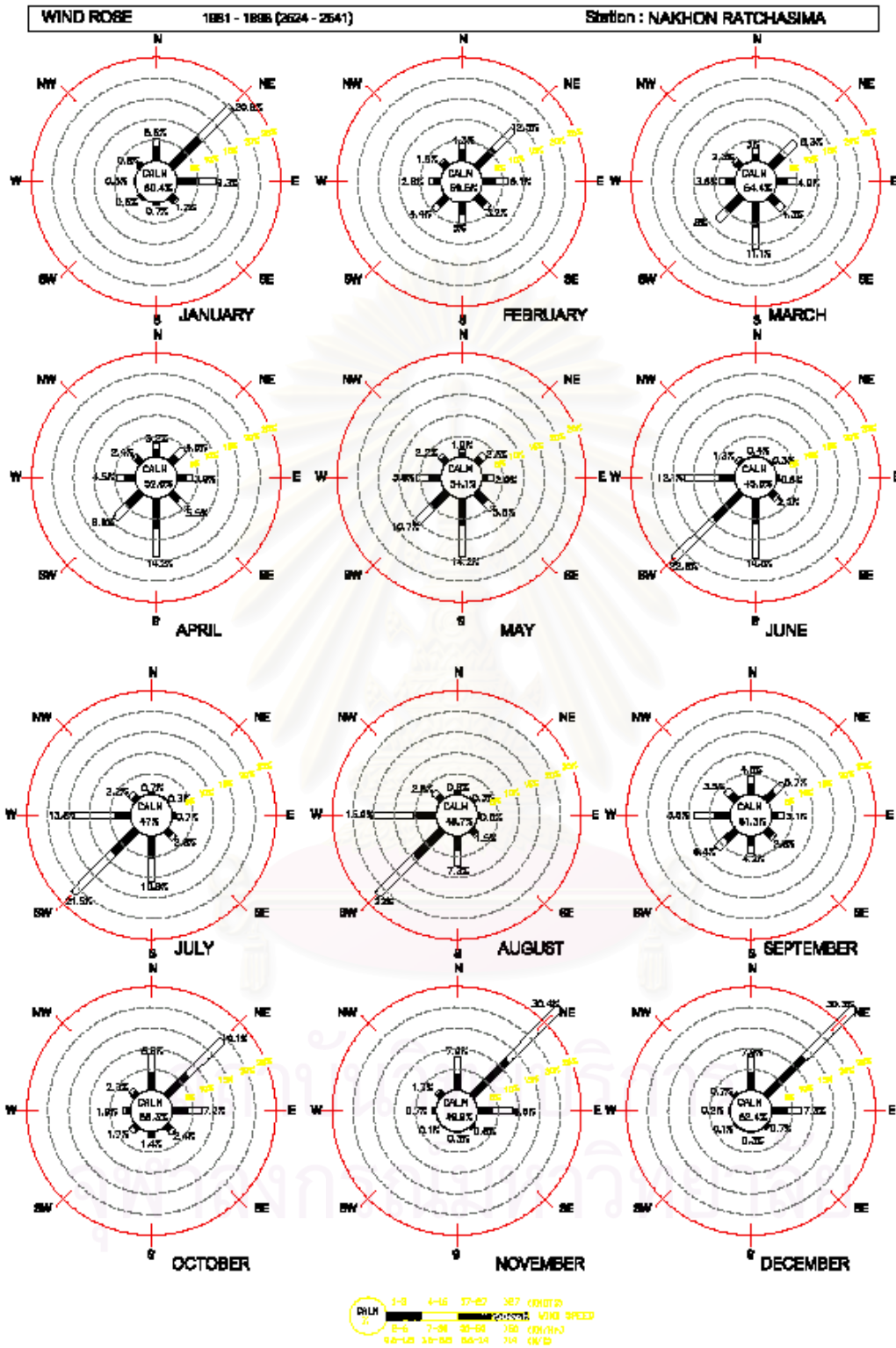
remark : kts = KNOTS

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

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

จุฬาลงกรณ์มหาวิทยาลัย

แผนภูมิจำแนกความถี่ของลม ในแต่ละความเร็วและทิศทาง ที่เกิดลมรายเดือน (wind rose)



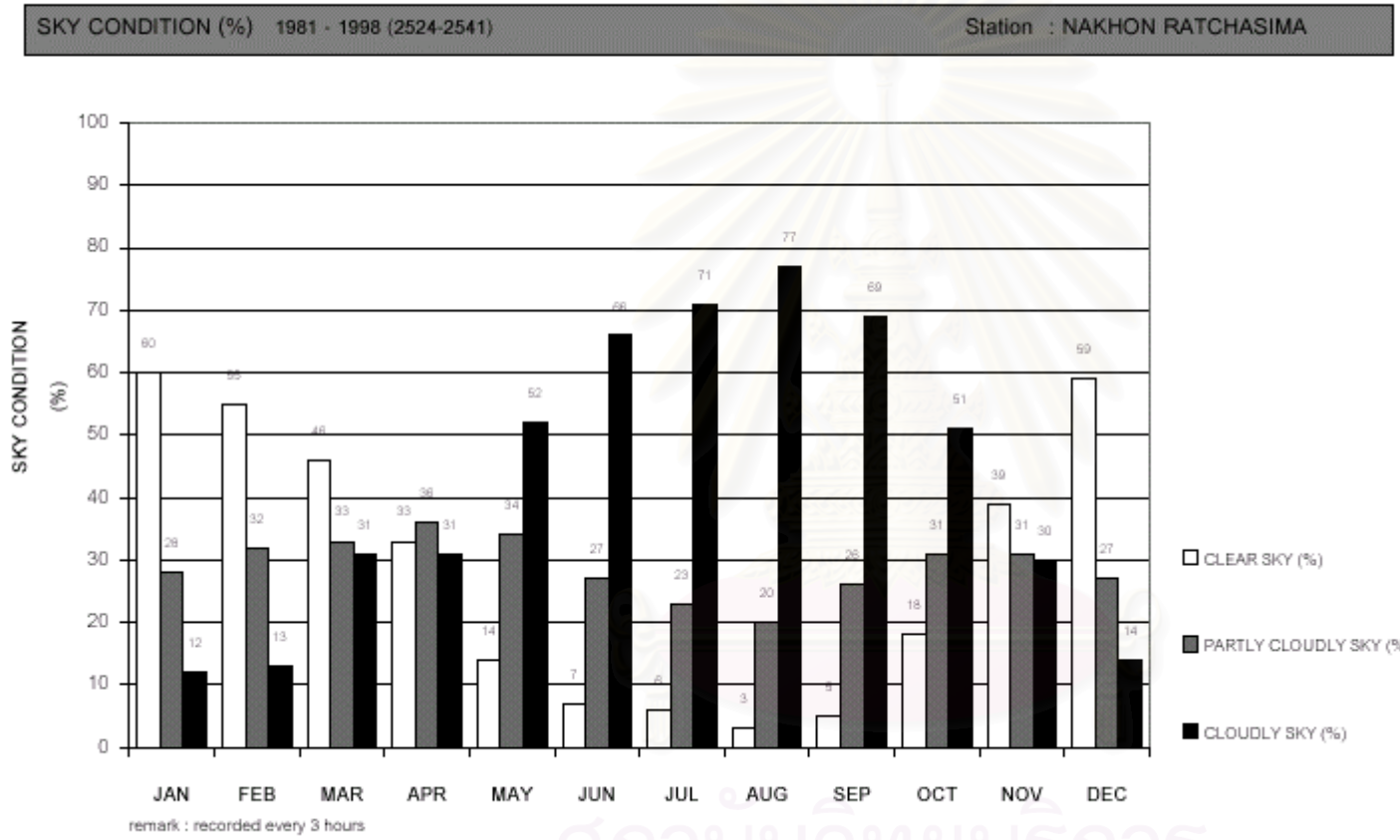
ตารางแสดงผลข้อมูลสภาพท้องฟ้าและสัดส่วนเปอร์เซ็นต์สภาพท้องฟ้า (sky cover and percentage of sky condition)

SKY COVER (%) & SKY CONDITION 1981 - 1998 (2524 - 2541)														Station : NAKHON RATCHASIMA																										
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	63%	25%	13%	75%	15%	10%	46%	28%	26%	43%	35%	22%	23%	36%	41%	13%	38%	49%	8%	16%	76%	1%	19%	79%	4%	18%	77%	7%	28%	65%	40%	26%	34%	41%	32%	27%	30%	26%	43%	
2	65%	29%	6%	62%	29%	9%	54%	29%	16%	49%	38%	13%	26%	37%	38%	8%	34%	58%	7%	24%	69%	1%	16%	82%	2%	24%	74%	5%	36%	59%	27%	39%	34%	54%	26%	20%	30%	30%	40%	
3	55%	32%	13%	65%	26%	8%	46%	35%	18%	51%	29%	21%	33%	35%	32%	9%	28%	63%	7%	17%	76%	4%	29%	67%	2%	26%	72%	3%	35%	63%	31%	29%	40%	54%	33%	13%	30%	29%	41%	
4	63%	28%	9%	61%	28%	11%	50%	34%	16%	46%	28%	26%	19%	40%	40%	5%	35%	60%	7%	21%	71%	1%	23%	76%	4%	21%	75%	6%	20%	74%	36%	29%	35%	49%	35%	16%	29%	29%	42%	
5	57%	38%	6%	60%	31%	9%	47%	24%	29%	39%	37%	24%	24%	40%	36%	6%	20%	74%	5%	16%	79%	3%	21%	76%	1%	20%	79%	5%	32%	63%	50%	26%	24%	58%	30%	12%	30%	28%	43%	
6	66%	21%	13%	60%	29%	11%	51%	31%	18%	44%	35%	21%	22%	35%	43%	5%	19%	76%	4%	31%	65%	4%	19%	76%	1%	24%	75%	12%	36%	52%	46%	26%	27%	50%	35%	15%	30%	28%	41%	
7	63%	29%	8%	67%	27%	6%	49%	32%	19%	37%	37%	26%	15%	29%	55%	4%	25%	71%	4%	32%	64%	1%	18%	80%	1%	23%	76%	13%	36%	51%	44%	30%	26%	60%	29%	12%	30%	29%	41%	
8	61%	28%	11%	60%	26%	13%	49%	37%	14%	31%	38%	32%	15%	39%	46%	4%	30%	65%	6%	34%	60%	4%	24%	72%	1%	28%	71%	16%	24%	60%	34%	30%	36%	61%	24%	15%	29%	30%	41%	
9	52%	30%	18%	51%	35%	14%	51%	35%	14%	35%	40%	24%	15%	30%	54%	7%	26%	68%	7%	20%	73%	2%	20%	78%	1%	15%	85%	15%	17%	68%	32%	29%	39%	60%	28%	12%	27%	27%	46%	
10	62%	27%	11%	59%	26%	15%	51%	37%	13%	44%	37%	19%	11%	36%	53%	7%	25%	68%	4%	23%	74%	1%	18%	81%	4%	13%	82%	11%	26%	63%	29%	32%	39%	55%	29%	15%	28%	28%	44%	
11	58%	31%	11%	50%	32%	18%	48%	39%	13%	49%	31%	21%	13%	38%	49%	6%	26%	68%	1%	12%	87%	1%	14%	85%	3%	24%	73%	13%	32%	55%	38%	29%	32%	58%	24%	18%	28%	28%	44%	
12	62%	32%	7%	53%	34%	13%	49%	36%	15%	43%	32%	25%	15%	29%	56%	7%	24%	70%	4%	32%	65%	6%	20%	74%	4%	34%	62%	4%	32%	65%	32%	28%	40%	57%	34%	9%	28%	30%	42%	
13	61%	32%	7%	60%	32%	7%	46%	38%	17%	32%	33%	35%	13%	36%	51%	11%	23%	66%	1%	26%	72%	6%	15%	79%	6%	27%	67%	11%	35%	54%	32%	32%	36%	62%	25%	13%	28%	29%	42%	
14	69%	21%	10%	49%	42%	9%	54%	26%	21%	35%	34%	32%	14%	32%	54%	8%	33%	59%	1%	20%	79%	7%	16%	76%	7%	21%	72%	13%	39%	49%	26%	32%	41%	59%	29%	13%	28%	29%	43%	
15	69%	24%	7%	47%	42%	11%	52%	30%	18%	28%	31%	41%	15%	38%	46%	8%	38%	54%	3%	21%	76%	3%	21%	76%	5%	35%	60%	19%	31%	50%	30%	43%	27%	46%	46%	35%	19%	27%	32%	40%
16	76%	18%	6%	45%	43%	13%	62%	22%	16%	26%	32%	41%	10%	41%	49%	12%	25%	63%	7%	29%	64%	3%	16%	81%	4%	29%	67%	20%	28%	52%	29%	44%	26%	49%	31%	20%	29%	30%	42%	
17	68%	21%	10%	52%	36%	12%	51%	30%	19%	24%	42%	34%	10%	31%	60%	5%	32%	63%	6%	27%	67%	1%	18%	81%	4%	33%	63%	14%	21%	65%	33%	35%	32%	63%	26%	11%	28%	29%	43%	
18	59%	34%	7%	52%	32%	15%	55%	25%	20%	27%	45%	28%	5%	34%	61%	8%	21%	71%	7%	30%	63%	1%	20%	79%	4%	28%	68%	10%	35%	55%	41%	35%	24%	60%	20%	21%	28%	30%	43%	
19	63%	23%	15%	59%	26%	15%	54%	27%	18%	29%	42%	29%	11%	29%	60%	7%	23%	70%	7%	18%	74%	1%	18%	81%	4%	26%	70%	11%	38%	51%	56%	30%	14%	60%	31%	9%	30%	28%	42%	
20	56%	34%	10%	55%	35%	10%	52%	35%	13%	19%	38%	43%	13%	40%	48%	9%	37%	54%	10%	21%	70%	0%	21%	79%	7%	31%	62%	20%	35%	46%	43%	38%	20%	65%	24%	11%	29%	32%	39%	
21	51%	42%	7%	60%	29%	11%	43%	36%	21%	29%	40%	31%	15%	34%	51%	9%	35%	56%	10%	25%	65%	1%	14%	85%	12%	23%	65%	32%	40%	27%	48%	23%	29%	60%	21%	19%	31%	30%	39%	
22	53%	35%	12%	65%	28%	7%	37%	28%	35%	25%	38%	37%	18%	27%	55%	12%	38%	50%	8%	26%	66%	0%	29%	71%	9%	28%	63%	32%	30%	38%	43%	33%	24%	65%	25%	10%	31%	30%	39%	
23	59%	26%	15%	61%	28%	11%	31%	42%	27%	31%	37%	32%	16%	38%	46%	7%	32%	61%	9%	24%	68%	1%	25%	74%	5%	25%	70%	26%	28%	46%	45%	38%	18%	66%	25%	9%	30%	31%	40%	
24	44%	31%	25%	51%	30%	19%	45%	32%	24%	26%	35%	38%	10%	35%	56%	6%	26%	68%	8%	25%	67%	0%	15%	85%	5%	27%	68%	29%	35%	37%	52%	26%	21%	78%	13%	9%	29%	28%	43%	
25	40%	37%	24%	43%	35%	23%	40%	35%	25%	13%	43%	44%	8%	31%	61%	3%	17%	80%	5%	29%	65%	4%	12%	84%	1%	37%	62%	28%	25%	47%	52%	29%	18%	79%	12%	10%	26%	28%	45%	
26	40%	27%	32%	48%	38%	14%	41%	35%	24%	2%	40%	36%	2%	34%	64%	6%	20%	74%	3%	38%	59%	3%	19%	78%	7%	25%	68%	25%	38%	38%	36%	33%	31%	69%	24%	7%	25%	31%	44%	
27	49%	26%	26%	49%	35%	16%	43%	29%	27%	28%	38%	35%	7%	24%	69%	4%	13%	83%	13%	33%	54%	8%	30%	62%	9%	37%	54%	32%	38%	30%	34%	28%	38%	54%	27%	18%	27%	30%	43%	
28	71%	22%	7%	43%	40%	17%	38%	35%	27%	26%	37%	38%	7%	26%	67%	4%	14%	82%	4%	29%	66%	5%	22%	73%	11%	30%	59%	36%	32%	32%	37%	27%	36%	68%	21%	11%	29%	28%	43%	
29	71%	19%	10%	28%	44%	28%	38%	38%	25%	29%	34%	38%	4%	34%	62%	4%	24%	73%	1%	18%	80%	4%	15%	81%	7%	26%	67%	32%	26%	42%	43%	26%	31%	63%	23%	14%	27%	27%	46%	
30	74%	16%	10%				35%	36%	29%	26%	38%	36%	2%	35%	63%	11%	25%	64%	1%	13%	85%	0%	16%	84%	7%	29%	65%	28%	32%	40%	46%	33%	21%	60%	24%	16%	26%	27%	47%	
31	74%	21%	5%				34%	38%	28%				8%	32%	60%				2%	9%	89%	1%	22%	76%				34%	33%	33%				52%	35%	13%	29%	27%	44%	
AVG %	60%	28%	12%	55%	32%	13%	46%	33%	21%	33%	36%	31%	14%	34%	52%	7%	27%	66%	6%	24%	71%	3%	20%	78%	5%	26%	69%	18%	31%	51%	39%	31%	30%	59%	27%	14%	29%	29%	42%	
condition	3.6			3.9			4.5			5.5			7.0			7.8			8.1			8.5			8.1			6.8			5.2			3.7			6.1			

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

จุฬาลงกรณ์มหาวิทยาลัย

แผนภูมิสภาพท้องฟ้าและสัดส่วนเปอร์เซ็นต์สภาพท้องฟ้า (sky cover and percentage of sky condition)



สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

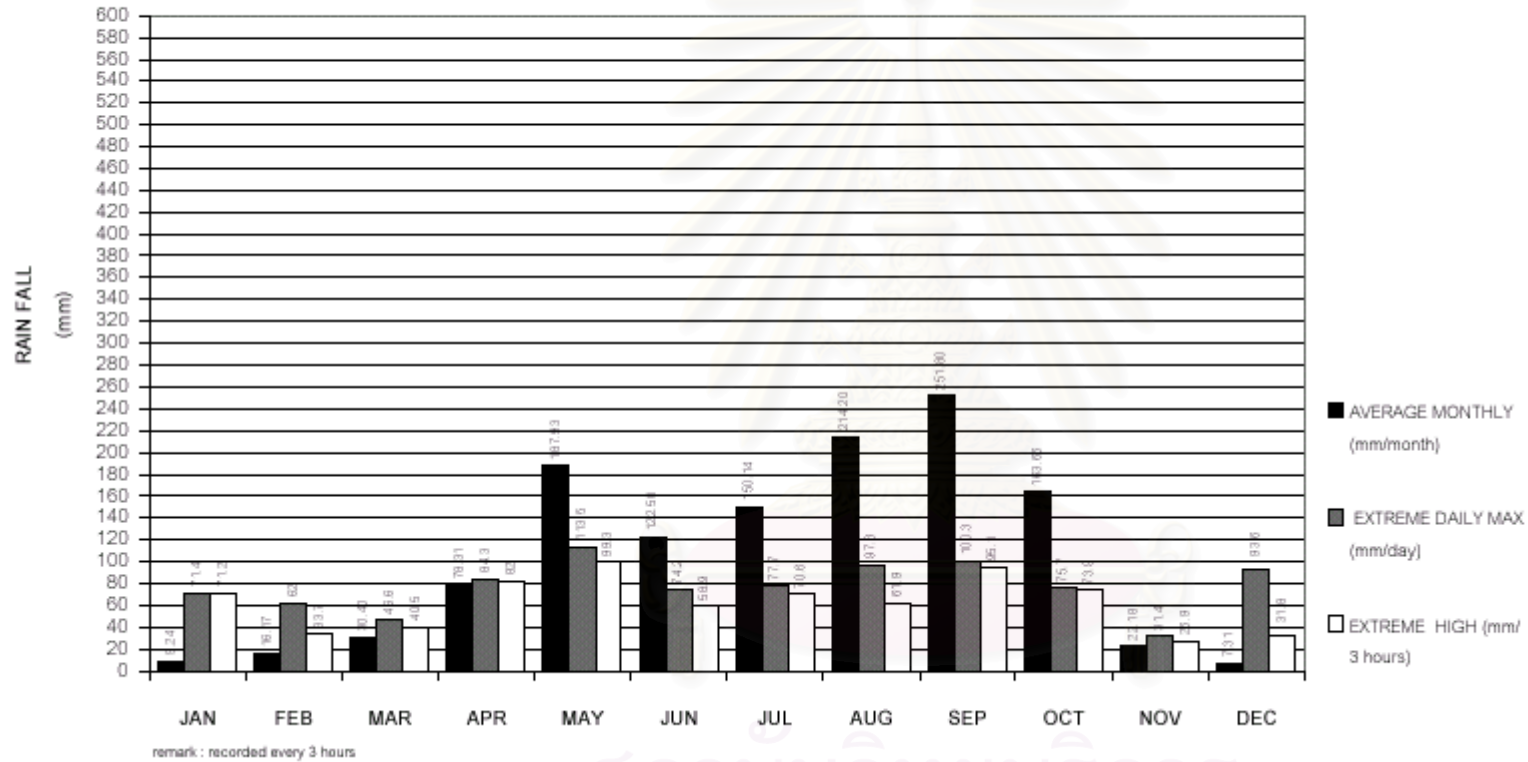
ตารางแสดงผลข้อมูลปริมาณน้ำฝน (rain fall)

RAIN FALL (mm) 1981 - 1998 (2524 - 2541)													Station : NAKHONRATCHASIMA	
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	0.1	4.7	11.3	2.8	1.8	6.7	7.1	5.6	0.1	5.3	45.6	
2	0.0	0.0	0.6	0.4	1.7	2.4	3.8	4.6	3.8	6.9	1.6	0.2	25.9	
3	0.4	0.0	0.4	1.1	2.4	3.7	3.4	2.3	6.9	13.8	1.5	0.1	35.9	
4	2.0	0.1	1.2	0.3	3.3	4.6	8.6	7.9	8.4	5.6	0.9	0.1	43.1	
5	0.8	0.0	2.1	0.9	2.1	7.5	8.5	11.2	8.2	6.9	0.1	0.0	48.3	
6	0.0	0.5	0.0	0.3	5.3	5.3	4.6	10.9	7.1	2.3	0.7	0.0	36.8	
7	0.0	0.0	0.0	0.7	5.8	3.0	1.1	12.1	10.3	8.7	0.9	0.0	42.7	
8	0.2	0.0	0.9	5.0	9.2	6.3	3.6	5.0	9.2	5.9	1.3	0.0	46.5	
9	0.0	1.7	0.0	0.5	8.8	8.3	8.3	5.7	4.9	13.7	0.1	0.0	52.0	
10	0.0	3.7	0.0	0.2	13.9	7.1	9.3	7.2	5.5	6.5	1.9	0.4	55.5	
11	0.0	0.0	0.0	1.1	7.0	7.8	5.7	4.5	5.1	7.2	1.9	0.0	40.4	
12	0.0	0.0	0.1	1.1	9.6	1.7	4.6	2.8	7.7	4.2	1.7	0.0	33.5	
13	0.3	0.3	0.0	5.6	7.6	6.5	5.6	7.2	5.2	2.5	0.4	0.0	41.2	
14	0.0	0.1	0.2	1.2	5.0	0.9	4.1	13.2	14.9	2.6	1.6	0.0	43.9	
15	0.0	0.0	0.1	3.2	4.1	3.5	6.7	2.7	7.3	8.4	0.4	0.0	36.4	
16	0.0	0.0	0.3	1.7	0.9	1.1	5.4	8.1	13.8	4.8	0.1	0.0	36.1	
17	0.0	0.0	0.4	1.8	1.8	3.6	4.1	6.0	10.1	5.9	1.2	0.0	34.8	
18	0.0	0.3	1.1	1.1	3.0	2.5	4.3	10.1	11.8	5.2	0.6	0.0	40.0	
19	0.2	0.0	2.4	3.8	8.0	7.3	5.4	10.7	11.2	10.6	0.0	0.0	59.6	
20	0.0	0.0	3.0	2.9	4.4	1.4	2.7	8.2	8.0	3.4	0.7	0.0	34.7	
21	0.2	0.0	0.2	3.8	8.1	4.4	4.6	8.8	11.9	0.8	1.7	0.0	44.4	
22	0.0	0.0	1.8	6.5	2.8	2.5	3.7	2.0	11.7	5.4	0.2	0.0	36.8	
23	0.0	3.9	2.0	2.8	11.2	1.9	11.2	6.6	5.3	1.6	0.0	0.0	46.4	
24	0.1	0.1	1.4	2.0	5.6	4.2	4.3	7.6	7.2	3.8	0.0	0.3	36.7	
25	4.8	0.0	2.6	1.9	8.7	2.7	4.2	5.4	5.0	1.9	0.1	0.6	38.0	
26	0.2	2.6	0.9	1.5	4.6	2.0	2.8	5.4	11.1	0.8	0.1	0.0	32.1	
27	0.0	1.2	0.4	2.3	9.8	6.9	2.5	3.6	5.7	5.8	0.6	0.0	39.0	
28	0.0	1.7	2.2	6.8	5.5	5.4	1.6	4.6	9.8	3.8	0.0	0.0	41.5	
29	0.0	0.0	1.3	4.8	3.0	2.3	3.4	7.0	9.8	5.0	1.7	0.3	38.7	
30	0.0		2.0	8.4	5.1	2.9	5.0	9.1	7.8	1.1	0.0	0.0	41.4	
31	0.0		2.7		8.0		5.1	7.1		3.0		0.0	25.9	
Monthly	9.2	16.2	30.4	78.3	187.9	122.5	150.1	214.2	251.8	163.7	22.2	7.3	1,253.8	
Daily record high	71.4	62.0	46.6	84.3	113.5	74.2	77.7	97.3	100.3	75.7	31.4	93.6	113.5	
3 hr. Extremes	71.2	33.7	40.5	82.0	99.3	58.9	70.6	61.9	95.1	73.9	26.9	31.8	99.3	
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 RATCHASIMA



สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

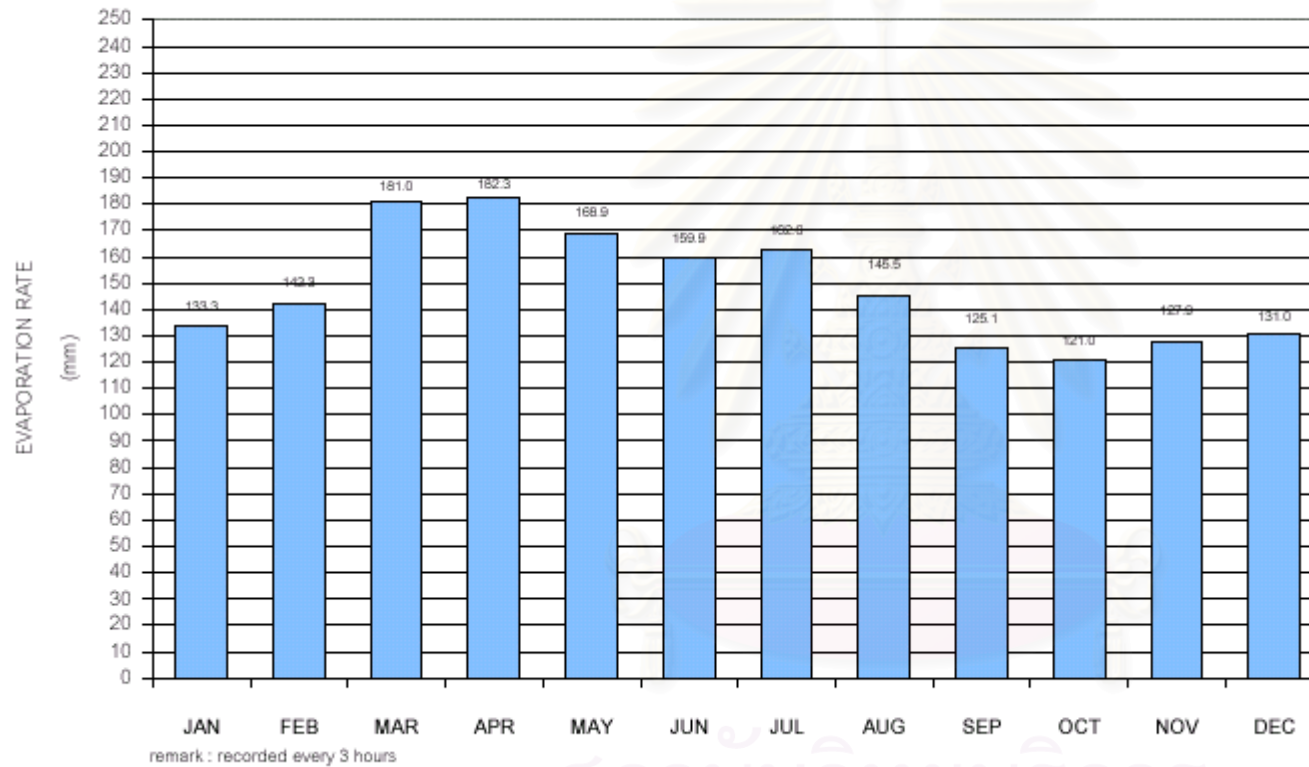
ตารางแสดงผลข้อมูลค่าเฉลี่ยอัตราการระเหยของน้ำรายวัน (evaporation)

EVAPORATION (mm) 1981 - 1998 (2524 - 2541)													Station : NAKHON RATCHASIMA
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	4.0	4.9	5.8	6.0	5.4	5.5	5.8	4.9	4.6	4.0	4.0	4.4	59.2
2	4.4	4.4	5.4	6.5	6.1	4.8	5.7	4.5	4.6	4.2	4.3	4.3	59.2
3	4.1	4.6	5.2	6.4	5.8	5.1	6.0	4.7	4.3	3.4	4.0	4.4	57.8
4	4.2	4.6	5.2	6.6	6.2	5.4	5.3	4.5	4.5	3.5	4.2	4.1	58.3
5	4.2	4.7	4.9	5.8	5.8	4.7	5.8	5.0	5.0	4.2	4.1	4.1	58.6
6	4.3	4.5	5.2	6.3	6.1	5.1	5.6	4.7	4.7	4.1	4.0	4.4	59.0
7	4.0	4.2	5.1	6.3	6.2	5.3	5.6	4.4	4.3	4.0	4.6	4.5	58.5
8	4.3	5.0	5.5	6.0	5.4	5.1	5.3	4.9	4.2	3.6	4.2	4.2	57.7
9	4.2	4.7	6.0	6.0	5.0	5.2	4.9	4.8	3.6	3.4	4.5	4.1	56.4
10	3.9	4.8	5.6	6.2	4.9	5.5	5.2	4.6	4.3	3.6	4.4	4.2	57.2
11	4.3	5.1	5.8	6.7	5.5	5.4	4.9	4.9	3.8	3.7	4.5	3.9	58.4
12	4.3	4.7	5.7	6.1	5.5	5.3	5.0	5.7	3.8	3.4	3.7	3.8	57.1
13	4.0	4.5	5.9	5.5	5.2	5.3	5.3	5.3	4.2	4.0	4.0	4.3	57.5
14	4.3	4.7	5.8	5.9	4.9	5.4	5.4	4.8	3.9	4.5	3.8	4.3	57.6
15	4.4	5.1	5.8	5.9	5.7	5.8	4.9	4.9	4.0	3.8	4.2	4.5	59.2
16	4.6	5.0	6.0	5.6	5.7	5.6	5.5	5.1	4.0	3.8	4.3	4.7	59.7
17	4.3	5.0	6.4	5.4	5.2	5.6	5.7	5.0	4.0	3.8	4.1	4.5	59.0
18	4.2	5.2	6.3	6.4	5.0	4.9	5.3	4.5	4.0	3.6	4.3	4.1	57.8
19	4.4	5.3	6.7	6.3	5.1	4.8	5.1	4.1	4.2	3.6	4.3	4.4	58.3
20	4.2	5.3	6.4	5.9	5.4	5.3	5.2	4.2	4.4	3.9	4.3	4.4	58.7
21	4.4	5.4	5.8	6.2	5.8	5.4	4.9	4.8	4.6	4.6	4.6	4.7	61.2
22	4.2	5.4	6.7	6.0	5.4	5.7	5.4	5.3	4.2	4.1	4.5	4.0	60.9
23	4.8	5.0	5.7	6.3	5.8	6.1	4.8	4.1	4.0	3.7	4.9	4.4	59.5
24	4.1	5.1	5.9	6.5	5.8	6.0	4.7	4.1	4.2	4.3	4.4	4.3	59.5
25	4.4	5.3	5.9	5.8	4.8	6.0	4.9	4.0	3.7	3.9	4.4	3.9	57.1
26	4.0	4.9	6.6	5.8	4.7	5.1	5.1	4.0	3.9	3.9	3.9	4.2	56.2
27	4.5	5.0	5.7	5.8	4.9	5.0	5.2	4.8	4.2	4.2	3.9	4.2	57.4
28	4.5	5.1	5.9	6.3	5.0	4.8	5.6	4.7	4.2	4.0	4.5	4.0	58.4
29	4.5	4.9	5.7	6.0	5.3	5.2	5.2	4.3	4.1	4.0	4.4	3.9	57.4
30	4.8		6.3	5.9	5.5	5.6	4.8	4.5	3.4	4.3	4.6	4.2	53.9
31	4.9		6.0		5.6		4.6	5.4		4.0		3.6	34.1
AVG. Monthly	133.3	142.3	181.0	182.3	168.9	159.9	162.6	145.5	125.1	121.0	127.9	131.0	1,780.9
Daily Mean	4.3	4.9	5.8	6.1	5.4	5.3	5.2	4.7	4.2	3.9	4.3	4.2	4.9
Extremes	9.7	10.8	12.3	10.4	10.9	9.7	10.0	9.0	8.0	8.1	11.0	8.4	12.3

จุฬาลงกรณ์มหาวิทยาลัย

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

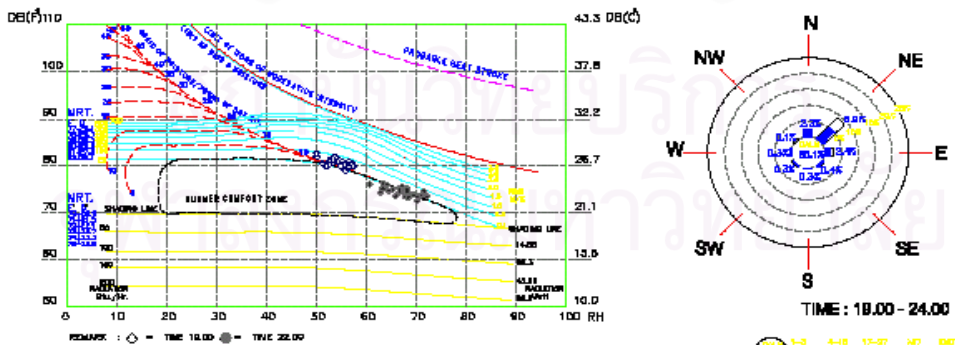
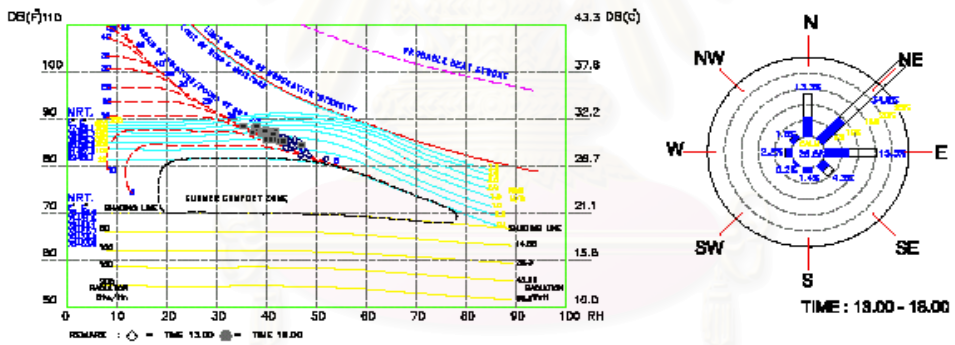
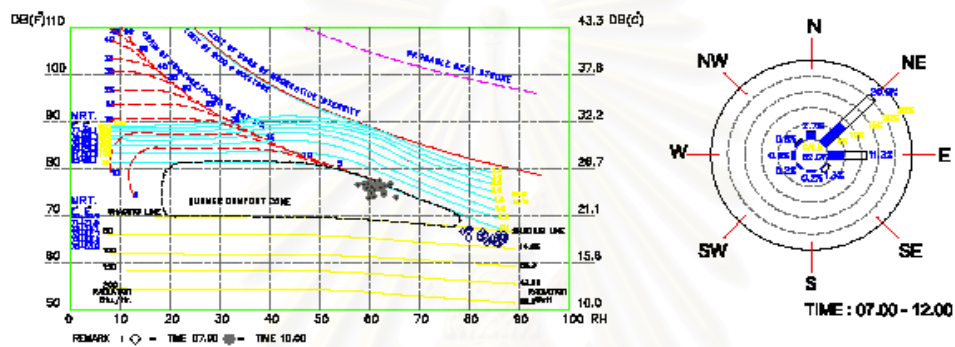
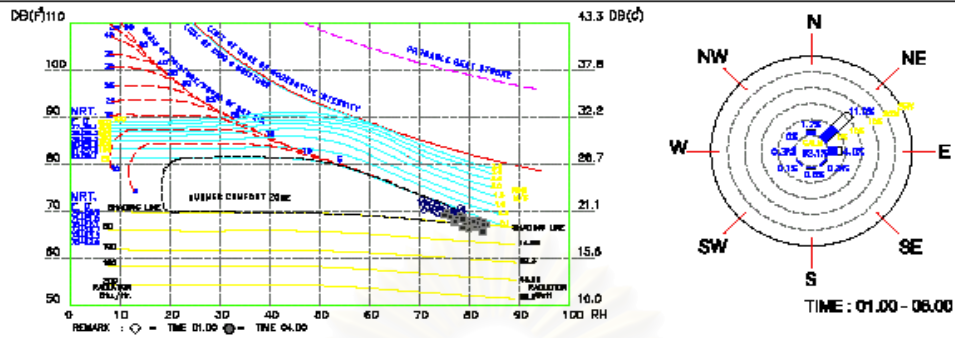
AVERAGE MONTHLY EVAPORATION (mm) from U.S. class "A" pan 1981 - 1998 (2524 - 2541) Station : NAKHON RATCHASIMA



สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

แผนภูมิความสัมพันธ์ระหว่างข้อมูลสภาพอากาศในแผนภูมิไบโอไคลเมตริก (bioclimatic chart) กับแผนภูมิแสดงความเร็วและทิศทางที่เกิดลมรายเดือน (wind rose) แยกตามช่วงเวลา

BIOCLIMATIC CHART & WIND ROSE : JANUARY 1981-1996 (2524-2541) Station : NAKHON RATCHASIMA

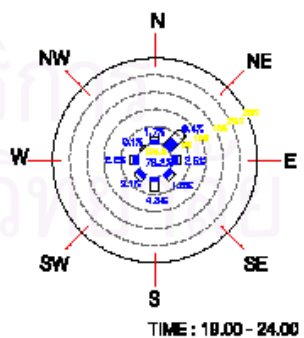
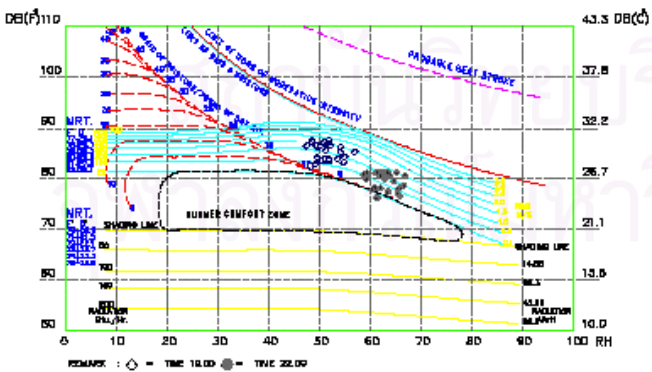
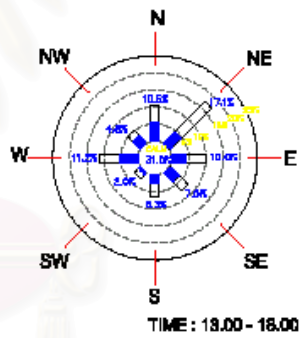
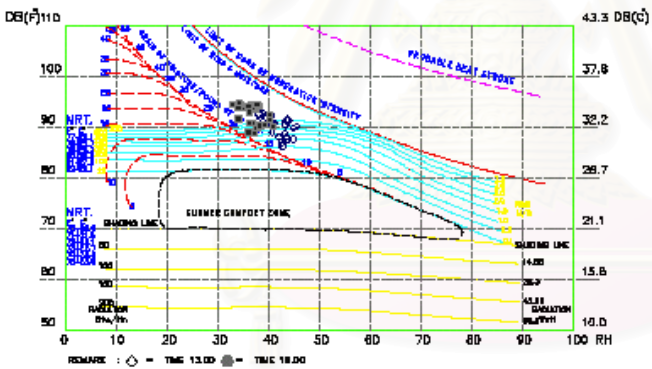
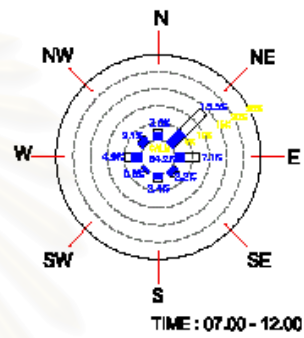
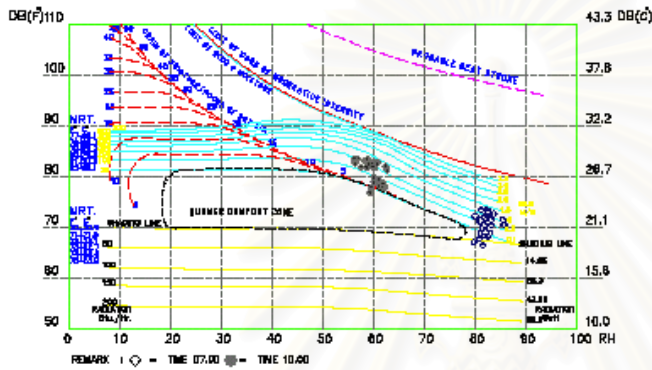
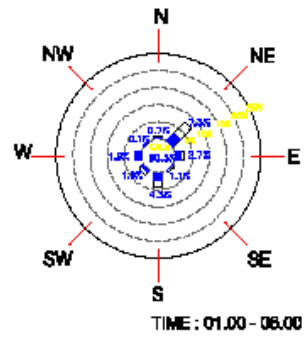
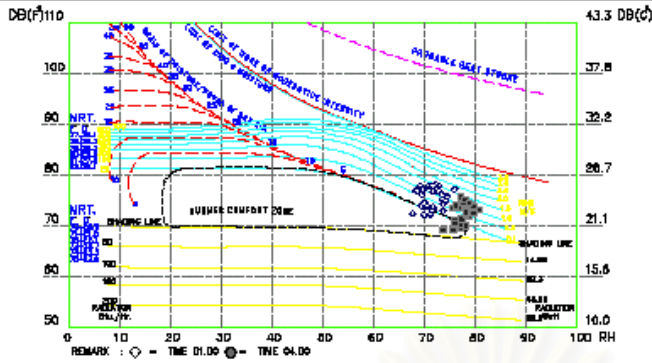


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : FEBRUARY 1961-1996 (2524-2541) Station : NAKHON RATCHASIMA

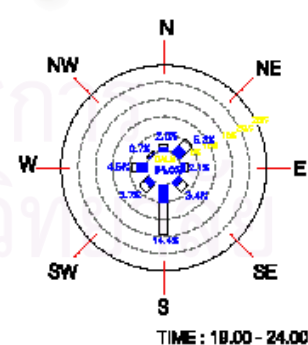
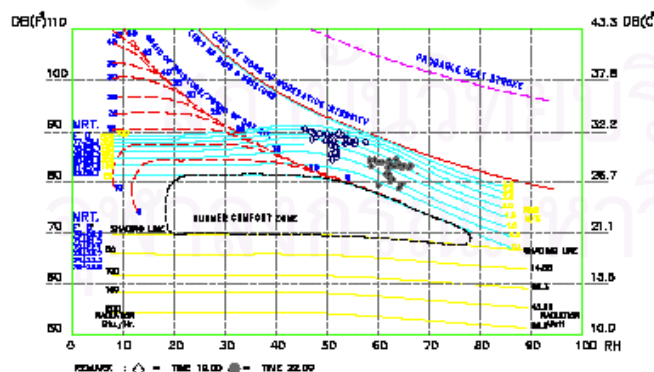
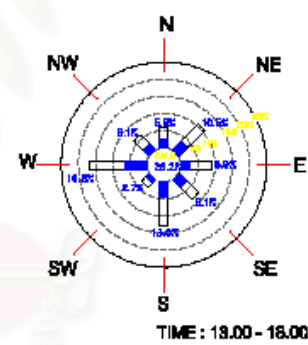
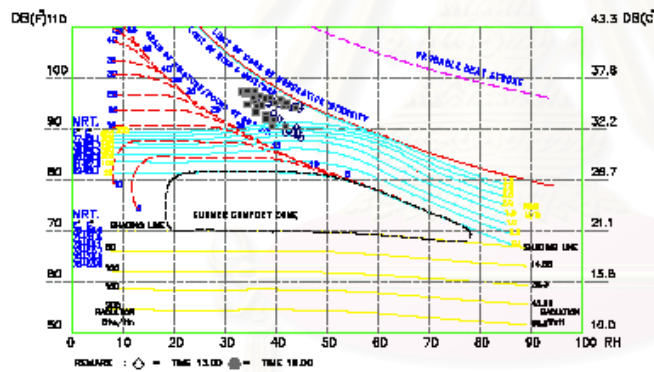
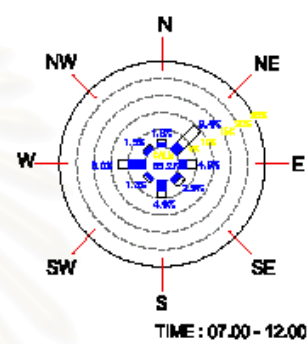
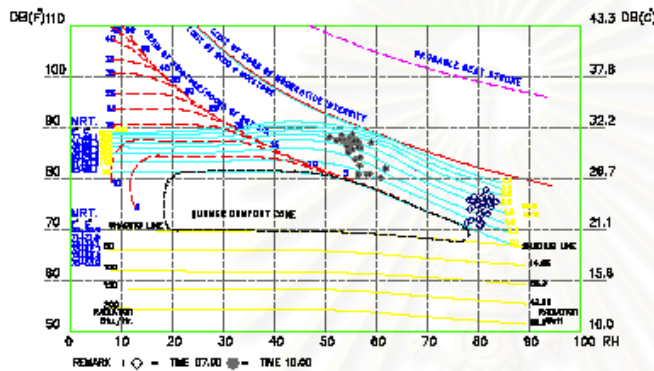
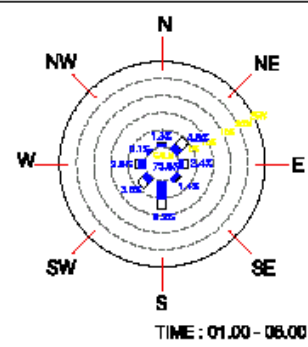
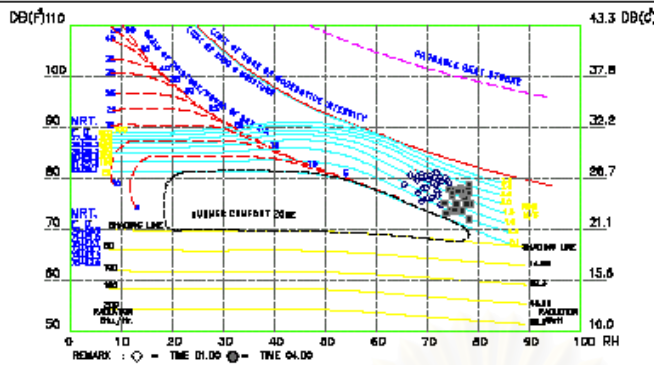


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : MARCH 1981-1986 (2534-2541) Station : NAKHON RATCHASIMA

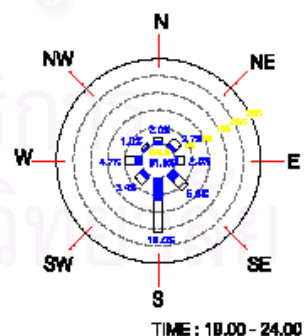
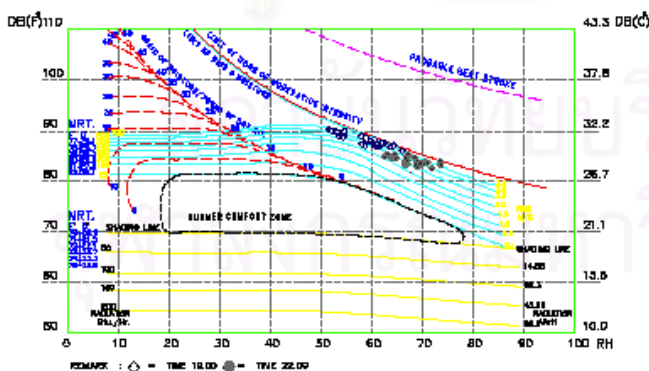
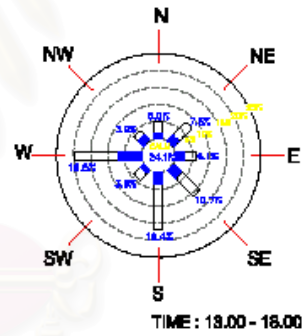
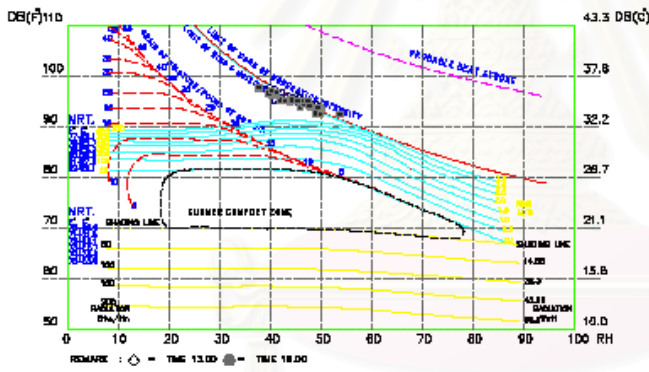
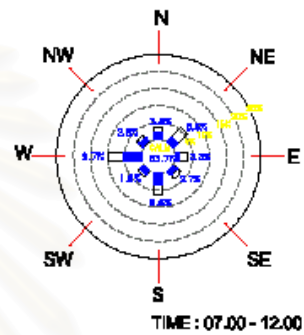
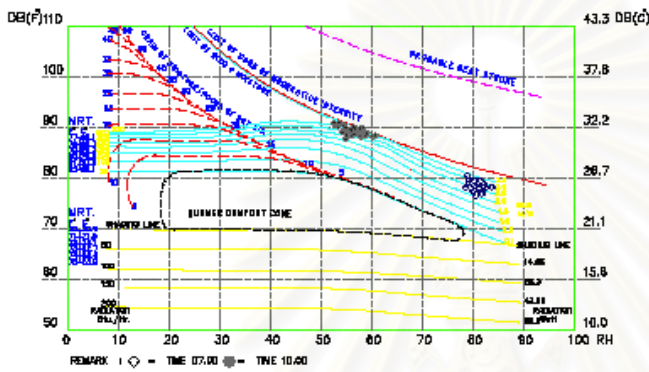
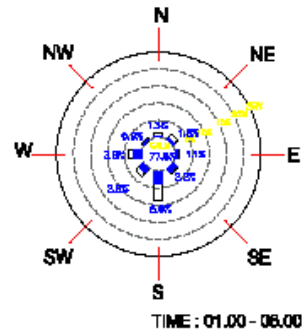
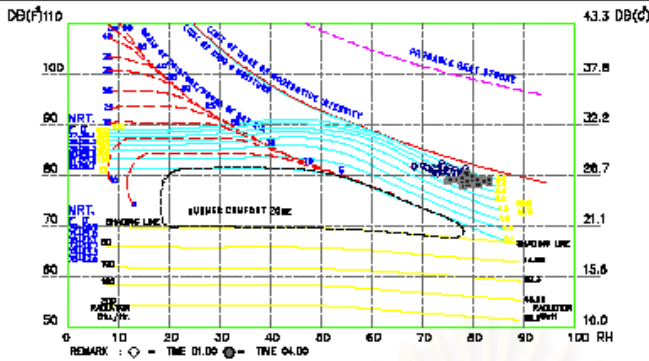


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE :APRIL 1981-1986 (2524-2541) Station : NAKHON RATCHASIMA

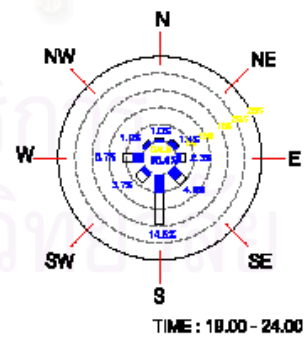
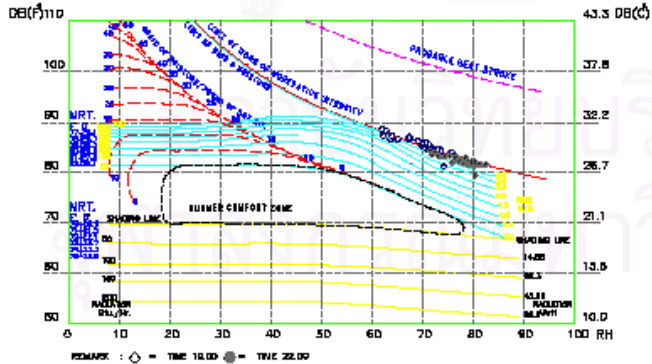
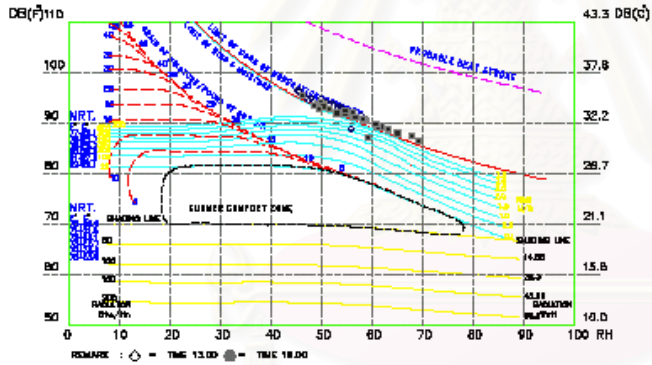
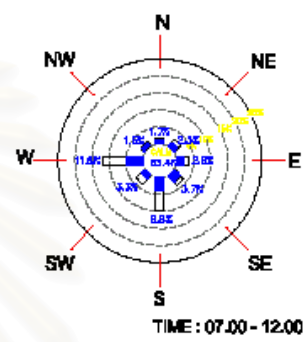
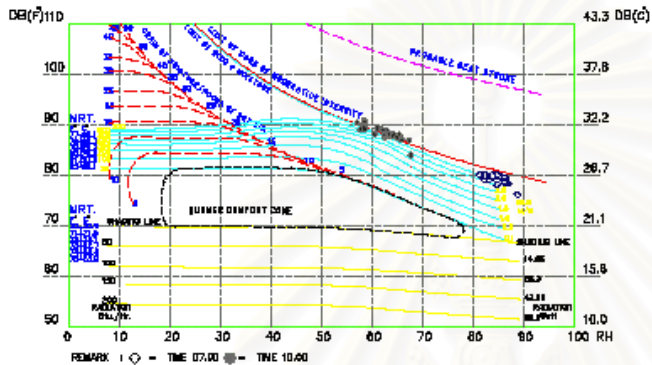
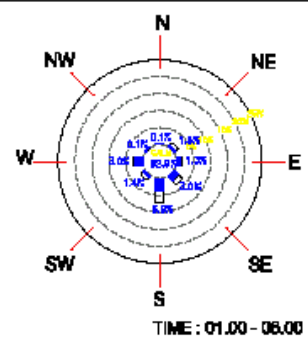
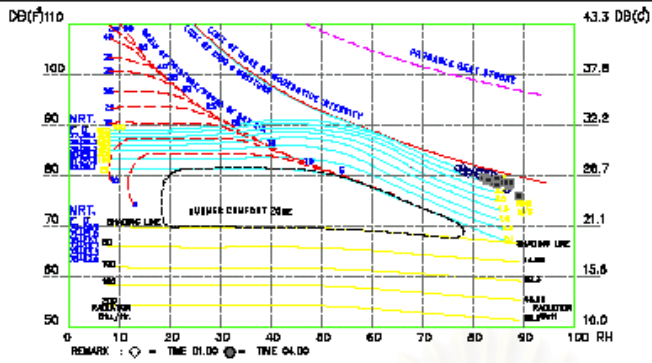


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : MAY 1981-1986 (2524-2541) Station : NAKHON RATCHASIMA

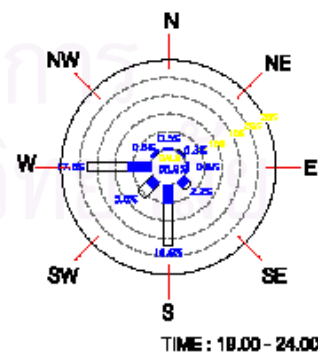
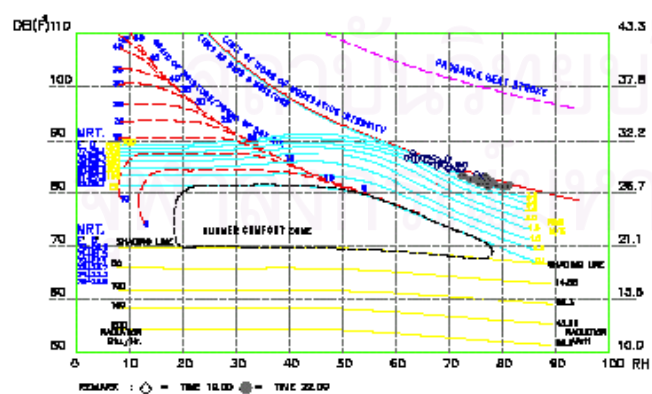
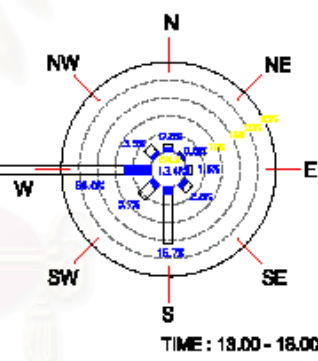
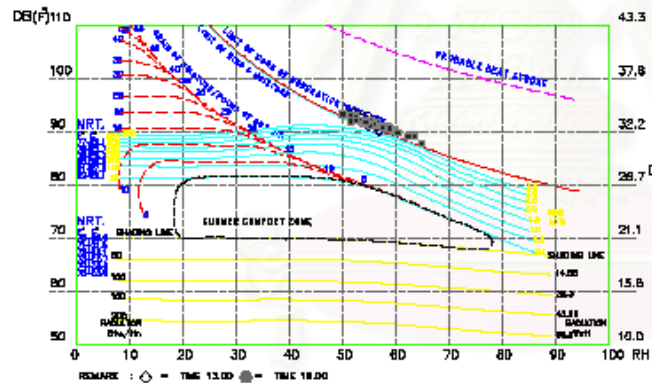
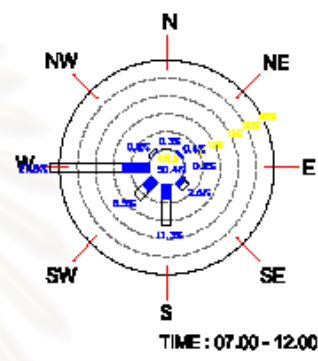
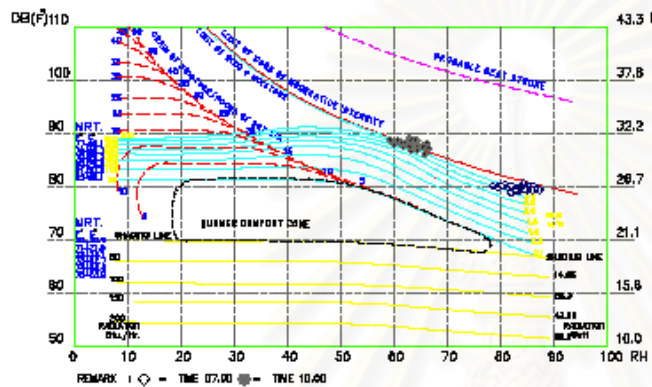
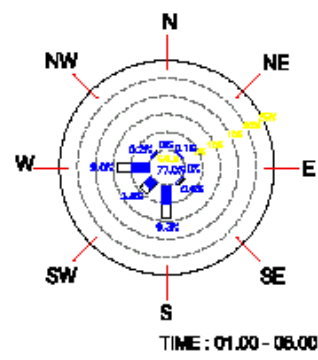
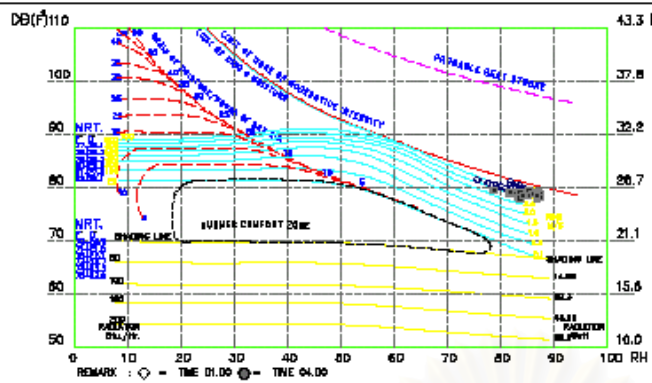


BIOCLIMATIC CHART

WIND ROSE



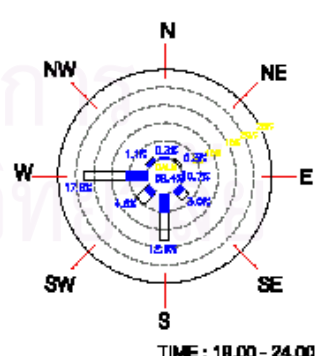
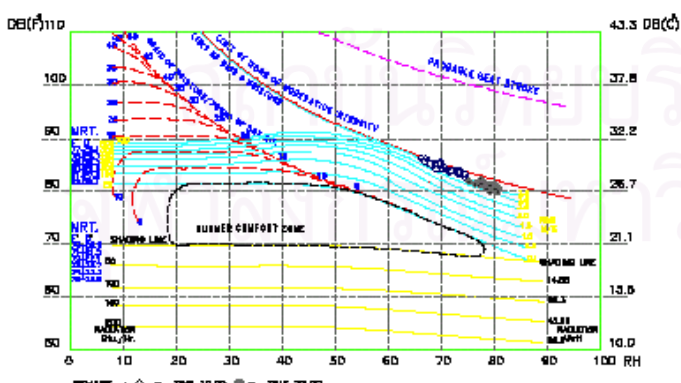
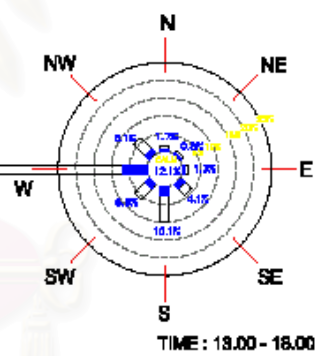
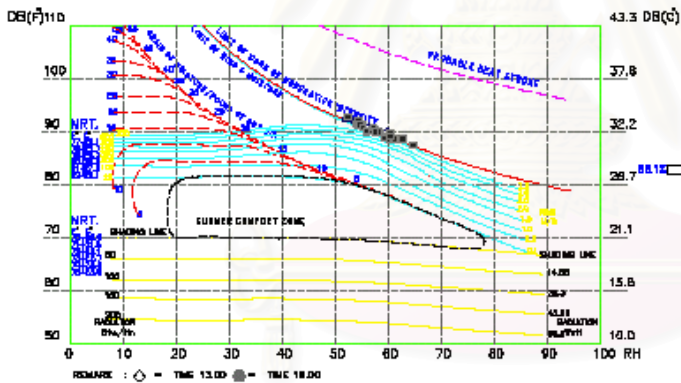
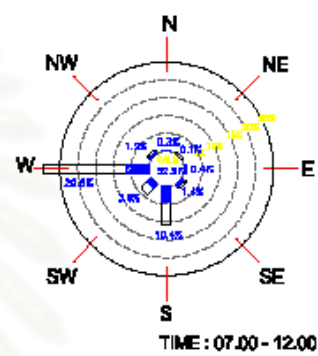
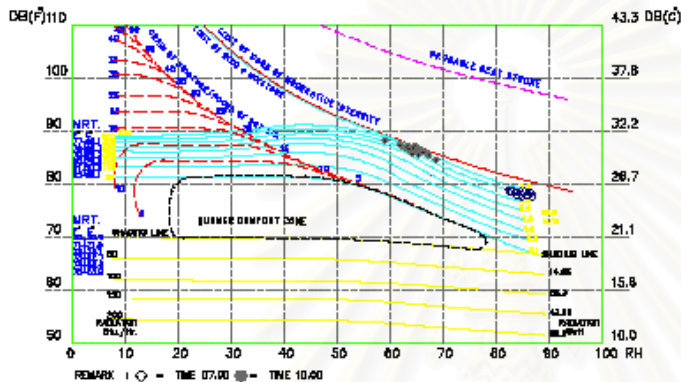
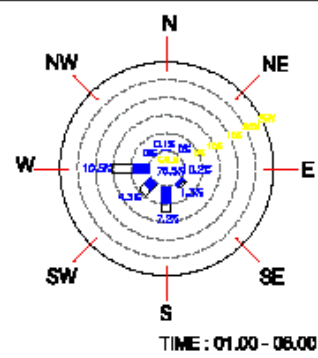
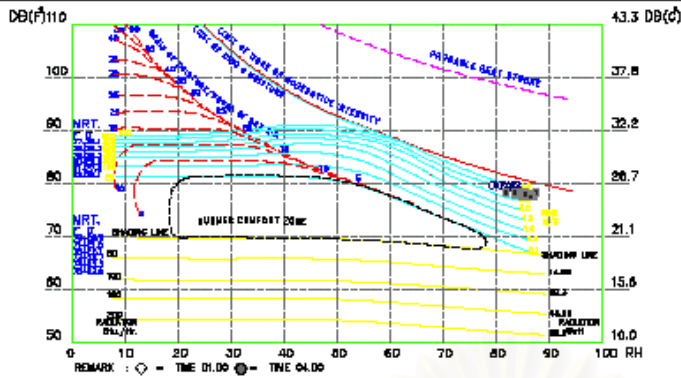
BIOCLIMATIC CHART & WIND ROSE : JUNE 1981-1986 (2534-2541) Station : NAKHON RATCHASIMA



BIOCLIMATIC CHART



BIOCLIMATIC CHART & WIND ROSE : JULY 1981-1996 (2524-2541) Station : NAKHON RATCHASIMA

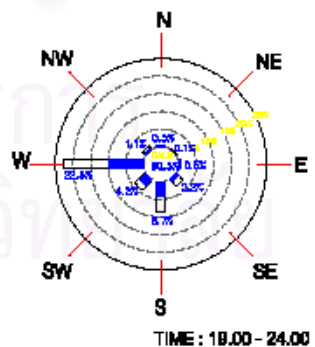
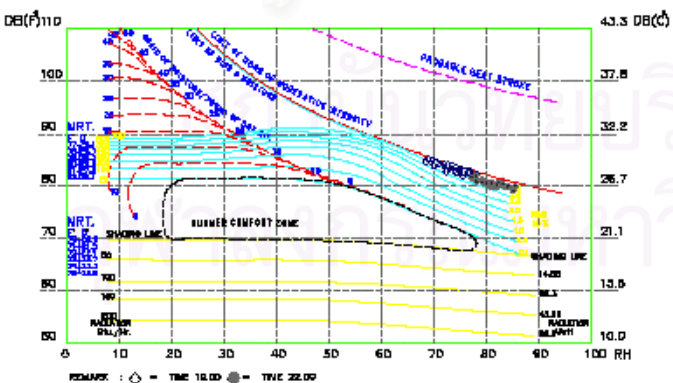
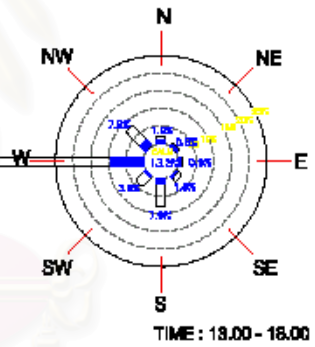
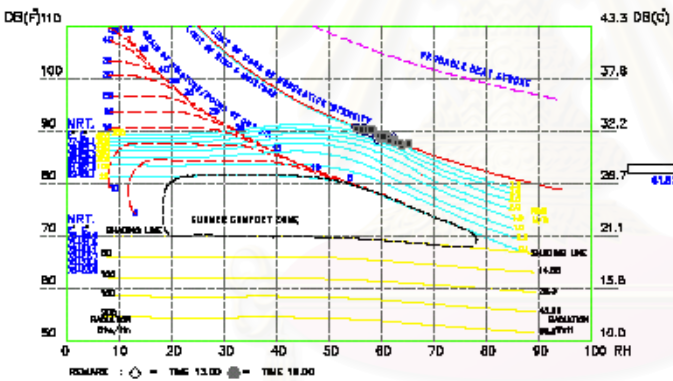
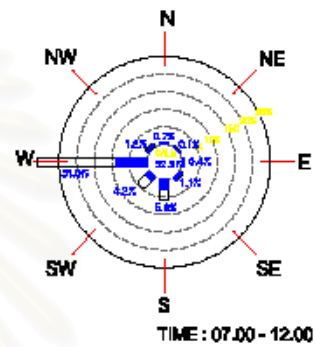
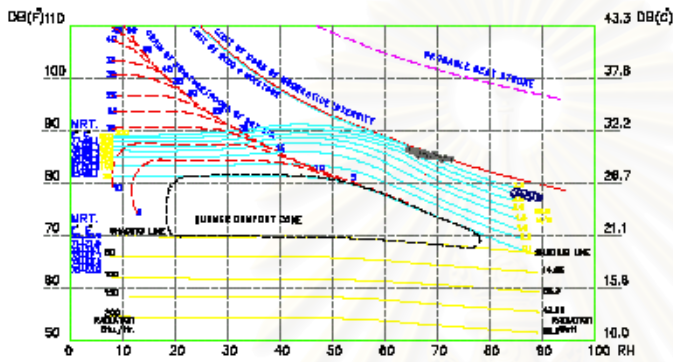
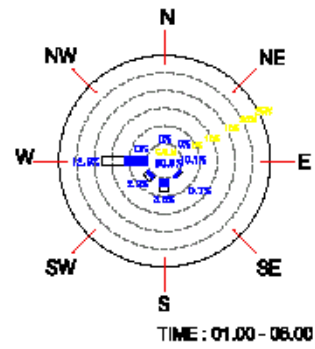
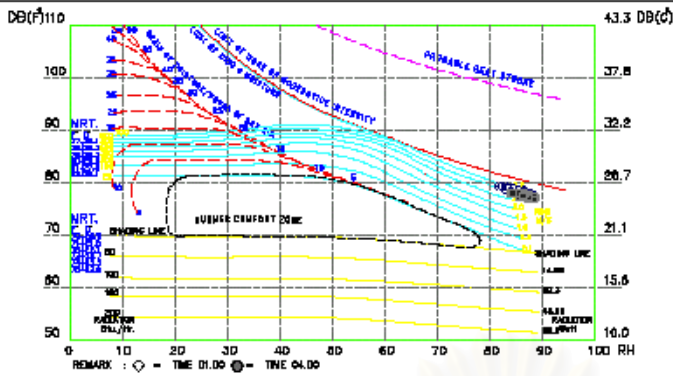


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE :AUGUST 1981-1986 (2524-2541) Station : NAKHON RATCHASIMA

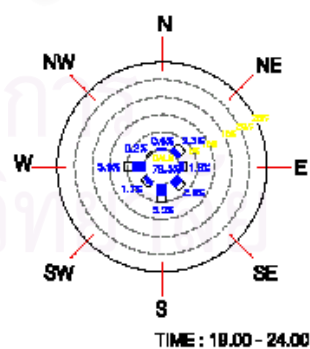
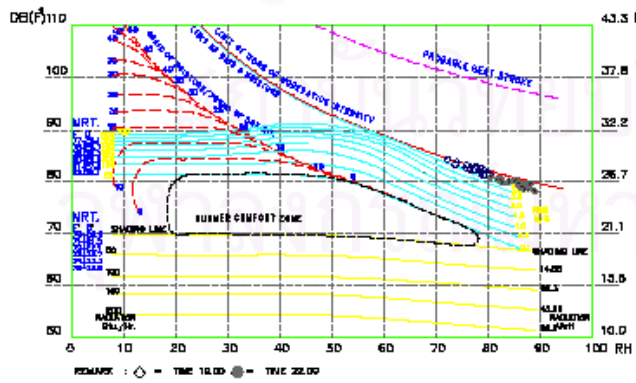
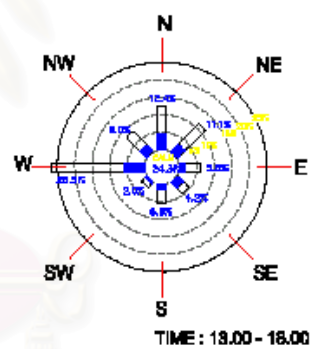
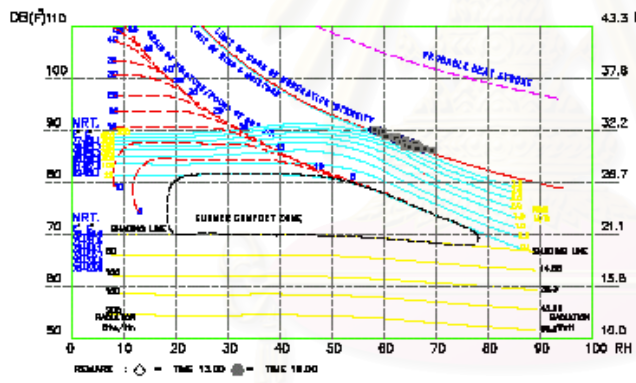
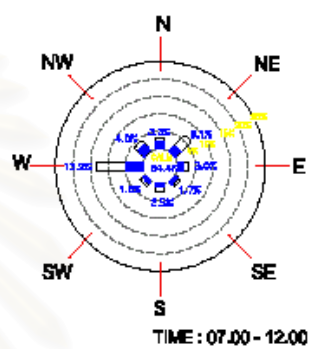
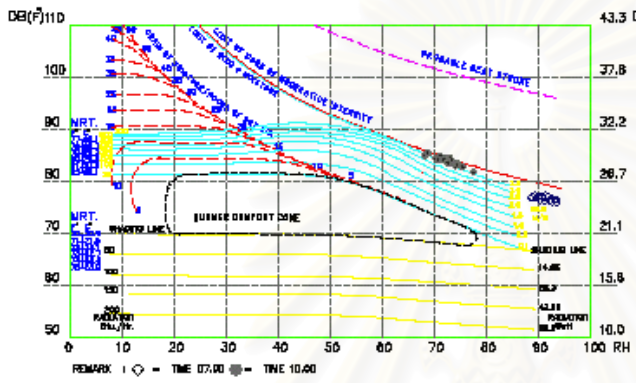
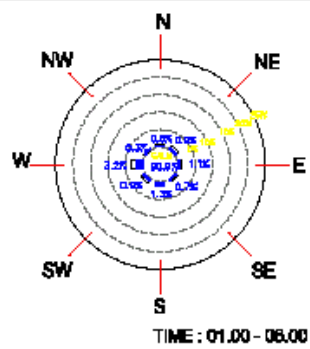
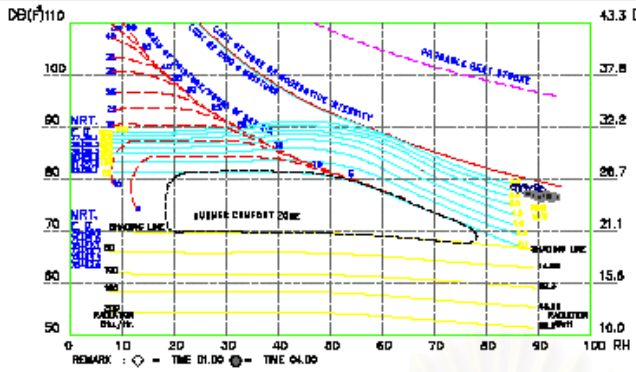


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : SEPTEMBER 1981-1986 (2534-2541) Station : NAKHON RATCHASIMA

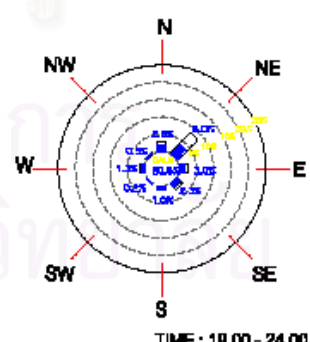
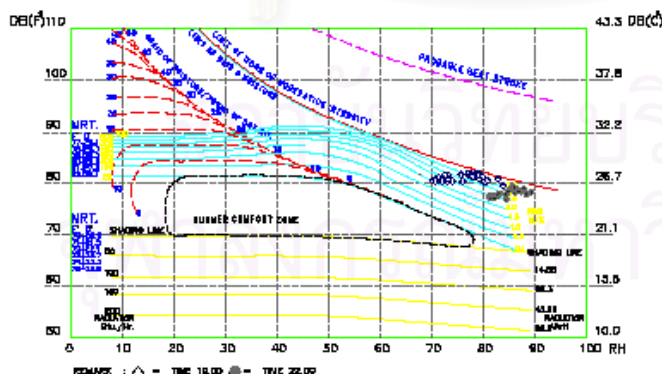
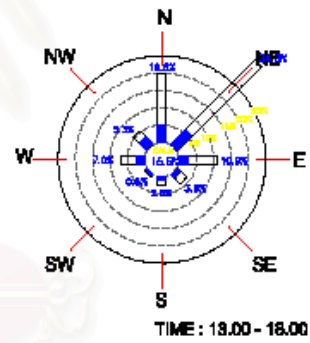
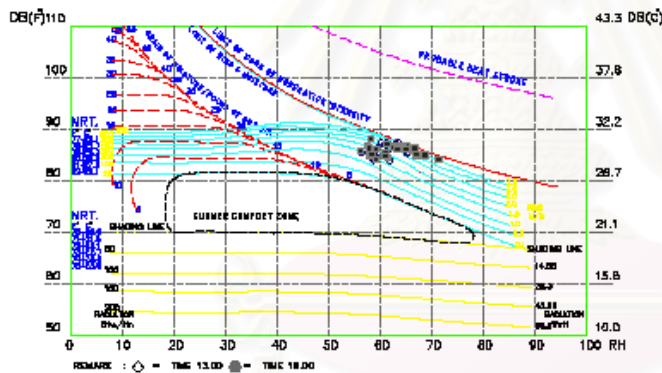
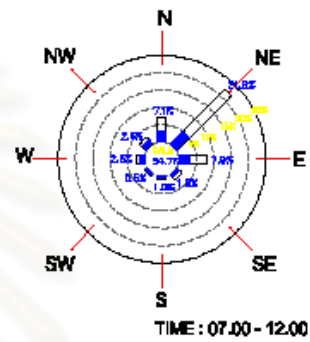
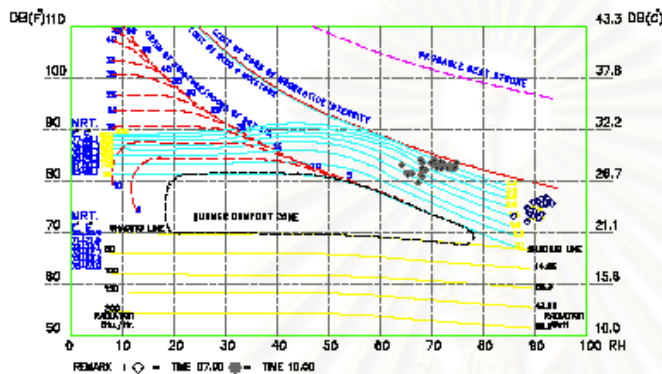
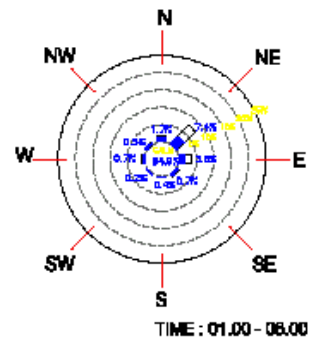
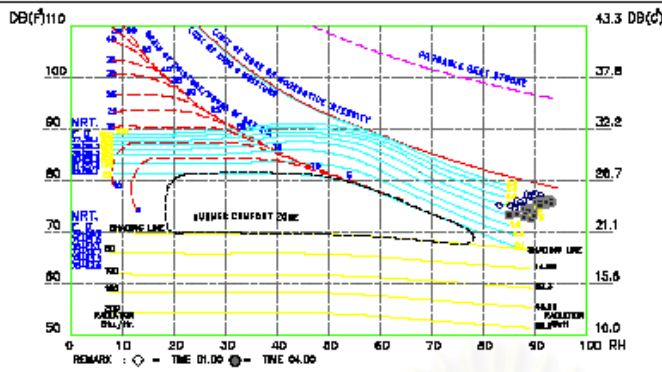


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : OCTOBER 1981-1998 (2524-2541) Station : NAKHON RATCHASIMA

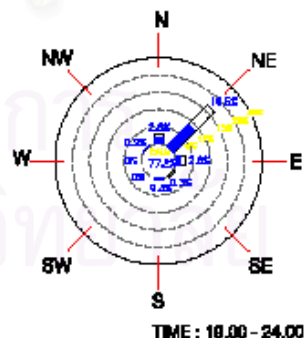
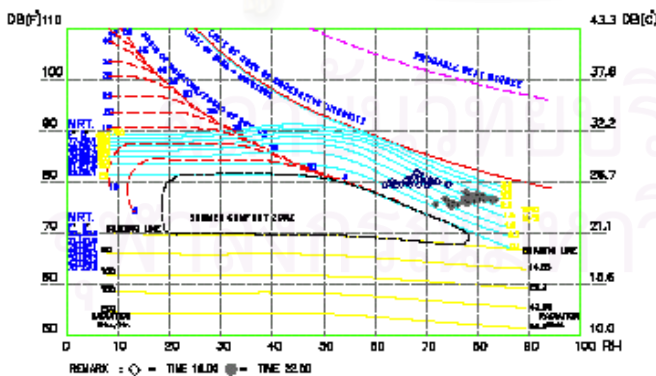
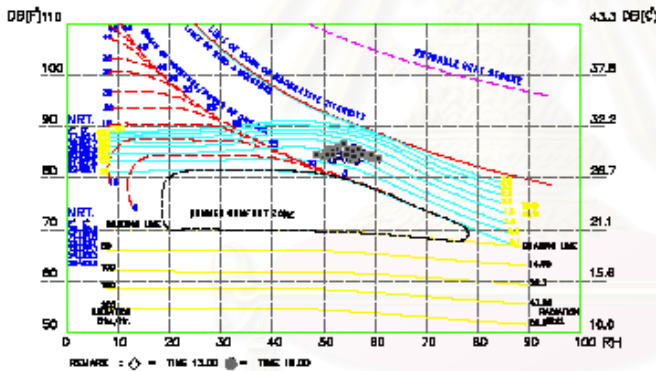
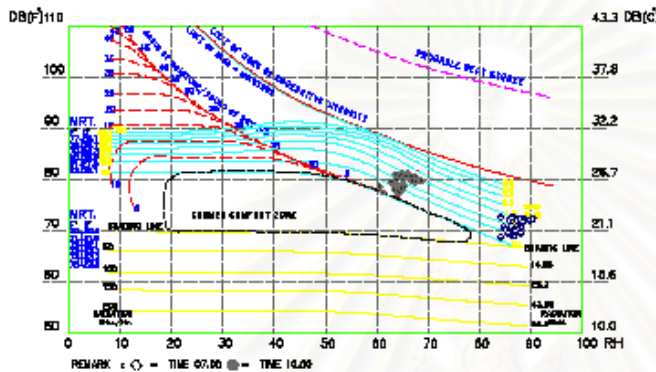
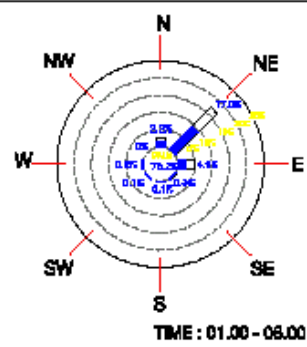
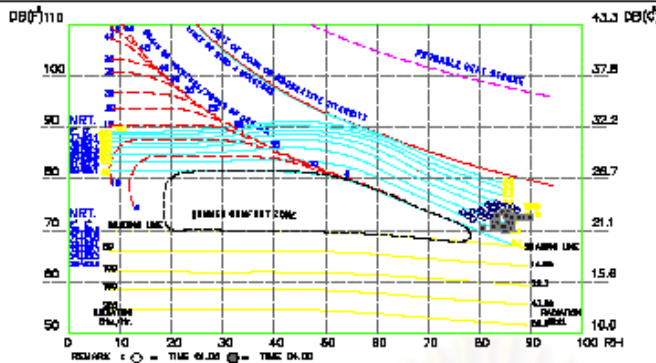


BIOCLIMATIC CHART

WIND ROSE



BIOCLIMATIC CHART & WIND ROSE : NOVEMBER 1981-1998 (2524-2641) Station : NAKHON RATCHASIMA

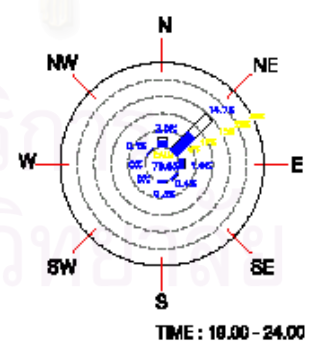
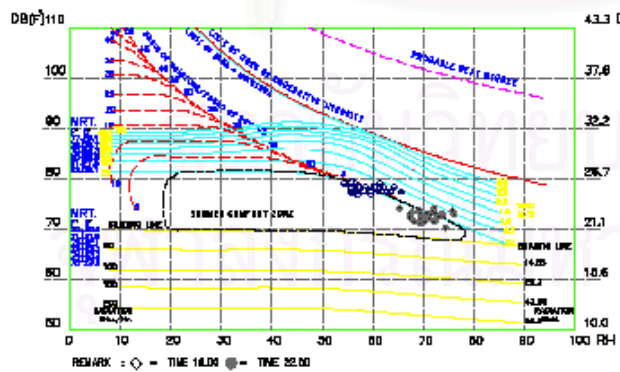
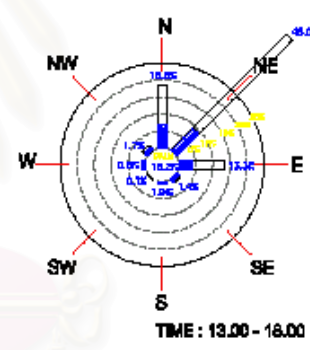
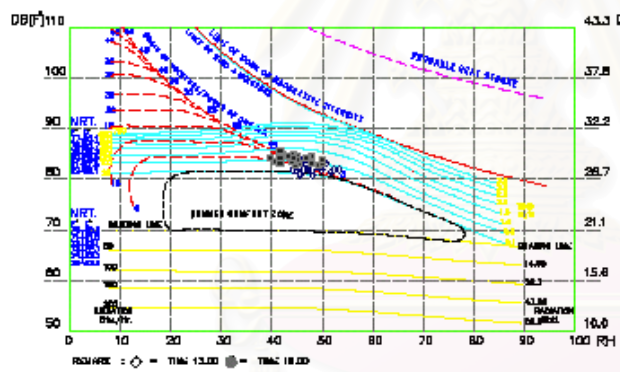
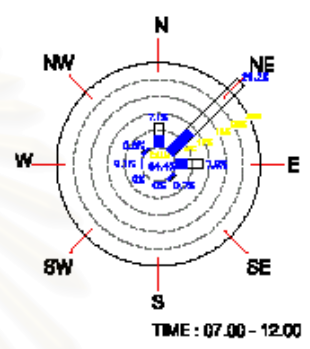
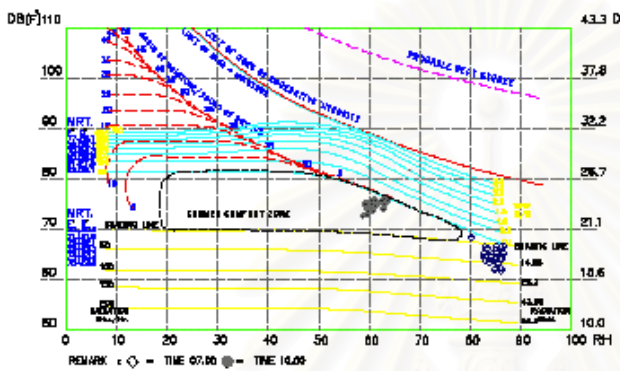
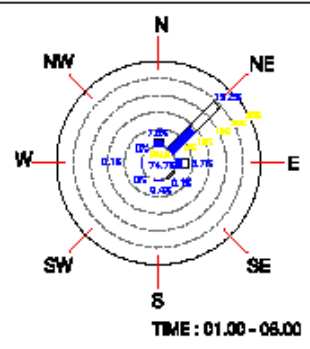
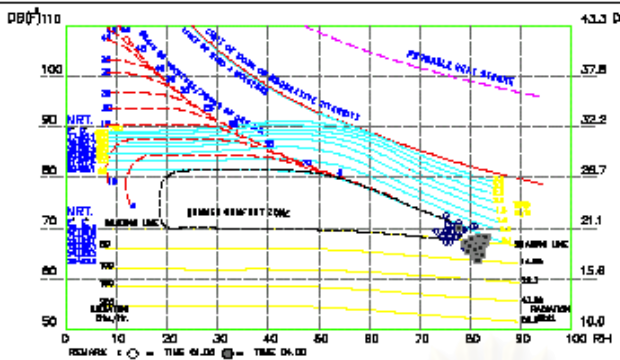


BIOCLIMATIC CHART

WIND ROSE

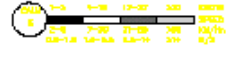


BIOCLIMATIC CHART & WIND ROSE : DECEMBER 1981-1998 (2524-2541) Station : NAKHON RATCHASIMA

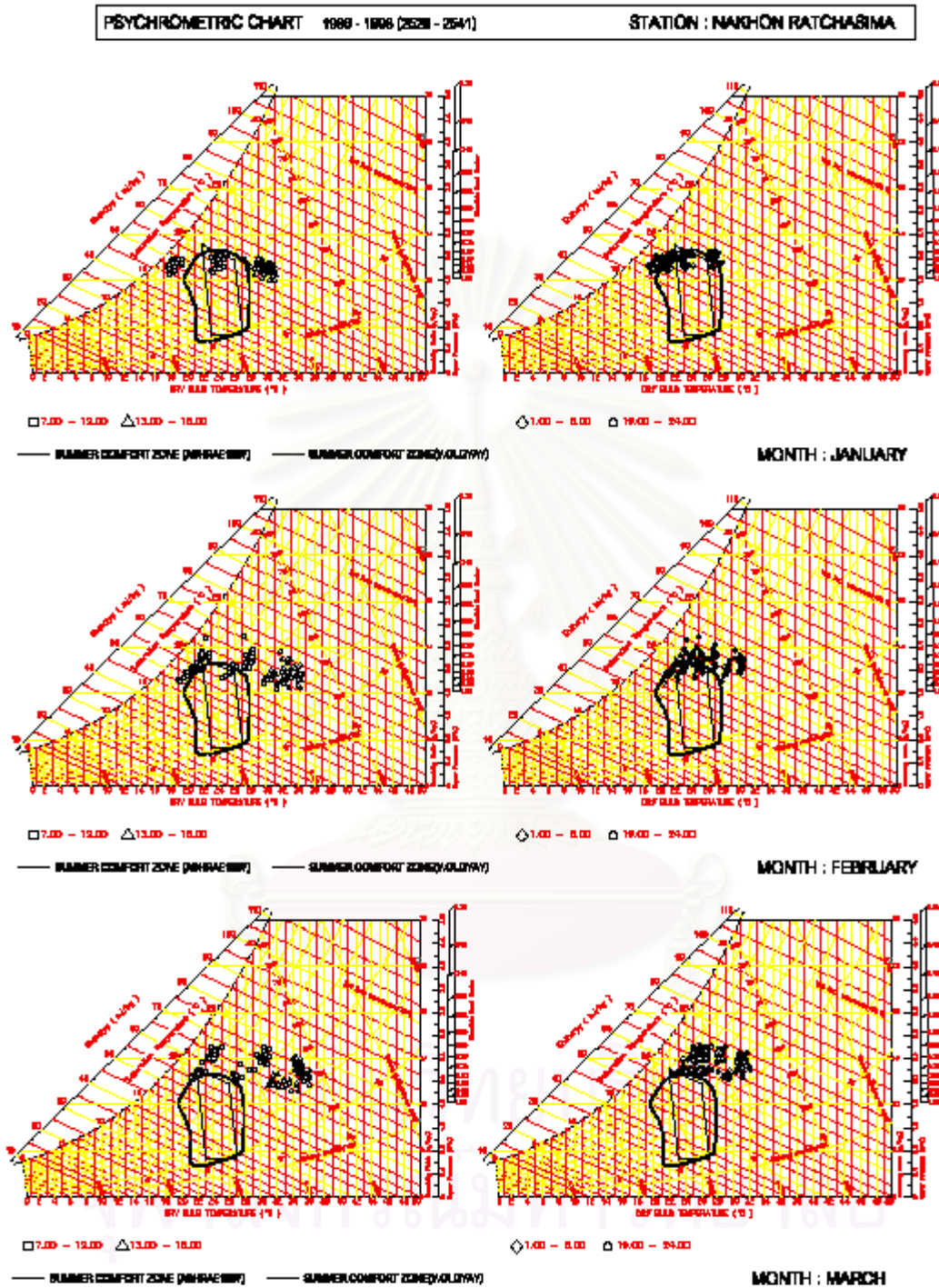


BIOCLIMATIC CHART

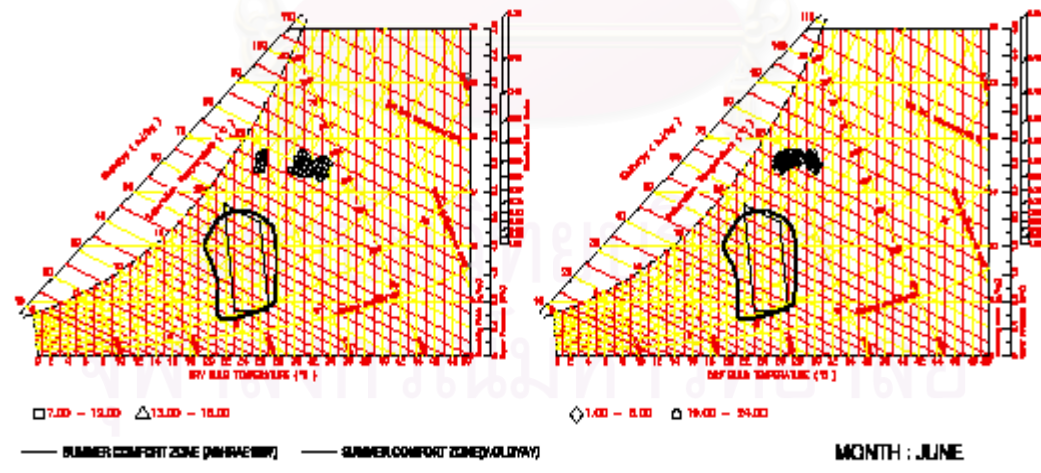
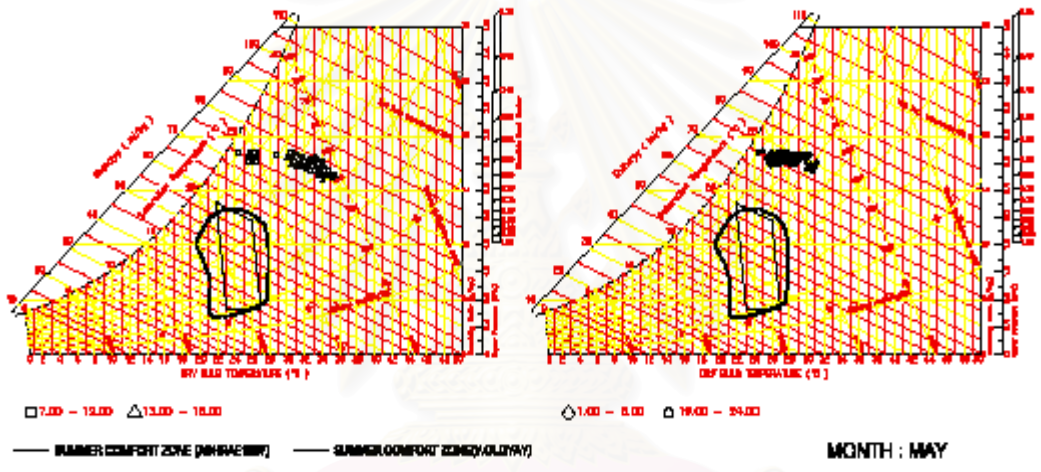
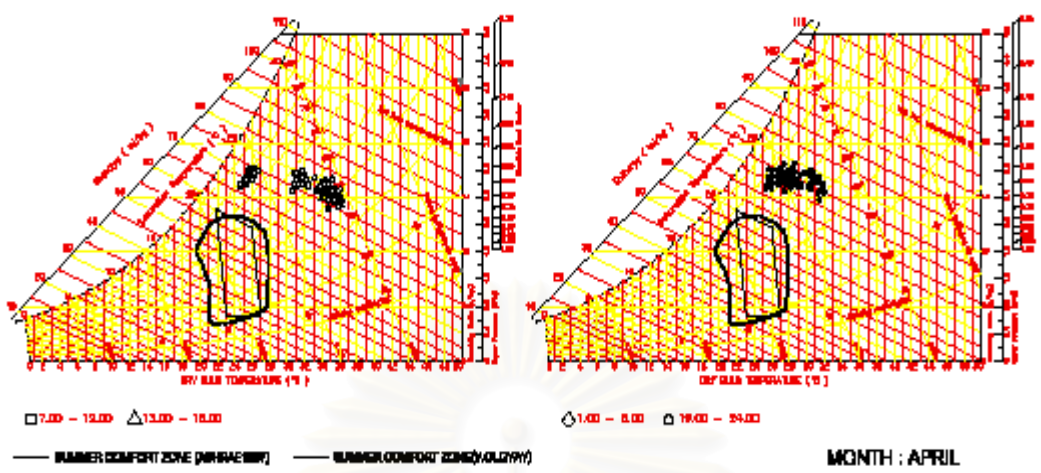
WIND ROSE



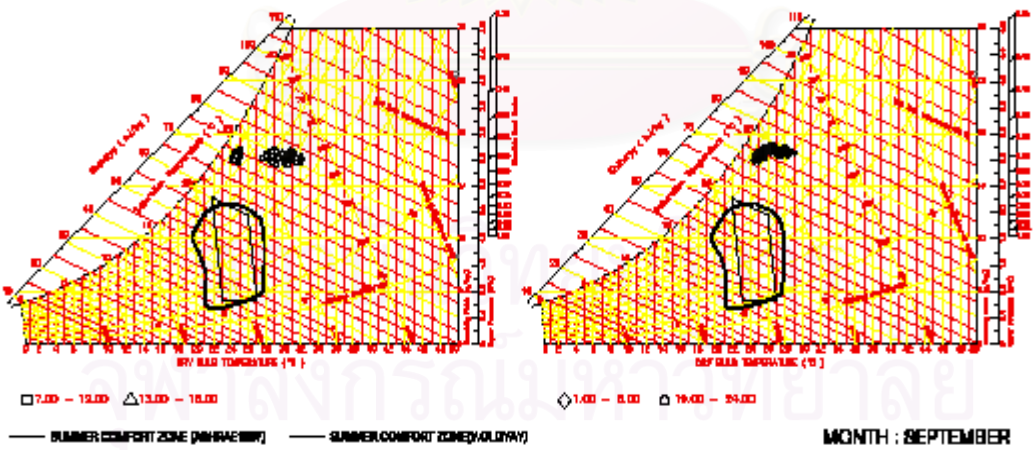
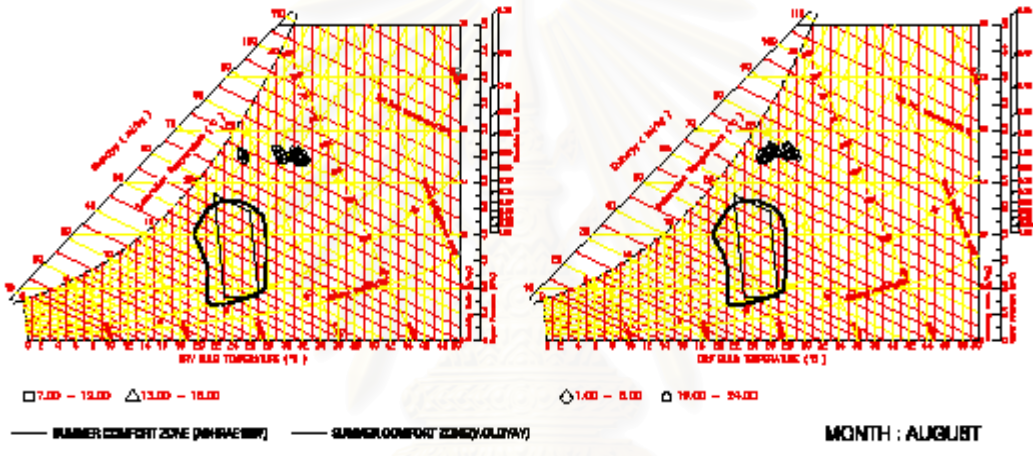
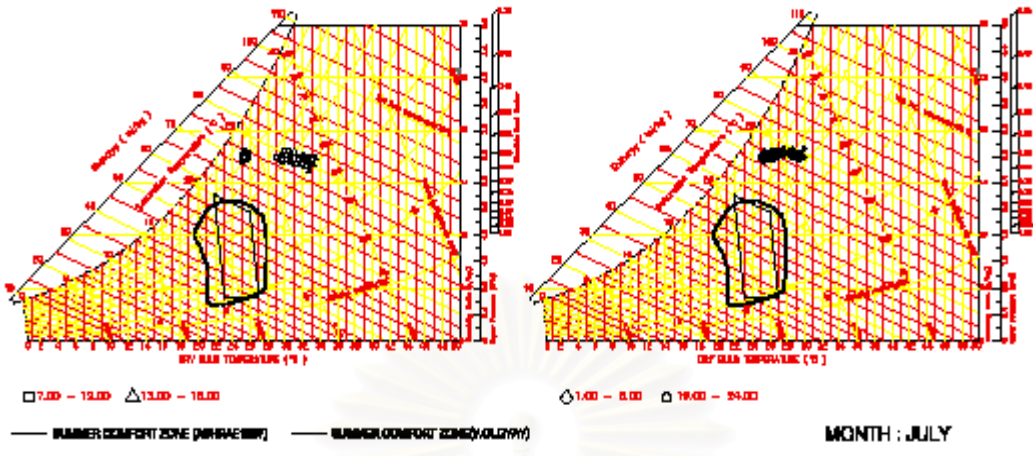
แผนภูมิความสัมพันธ์ระหว่างข้อมูลสภาพอากาศ ในแผนภูมิไซโครเมตริก (psychrometric chart)
แยกตามช่วงเวลา



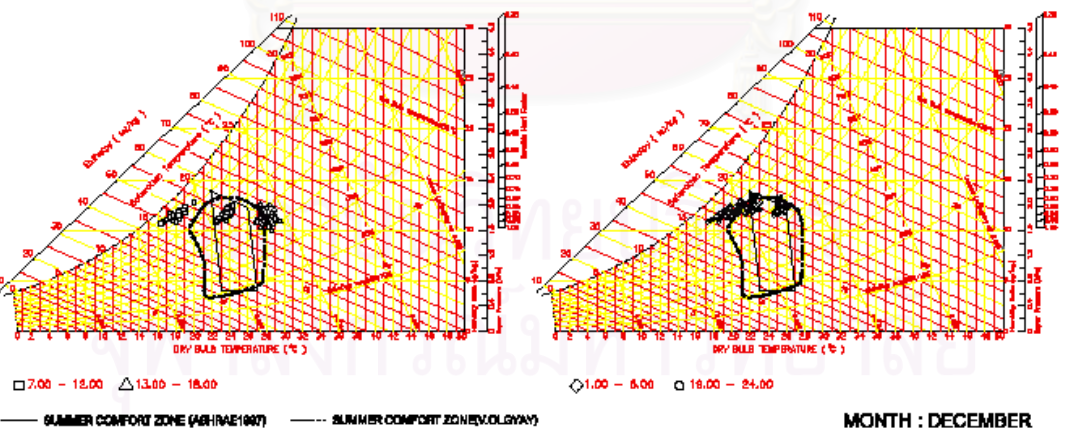
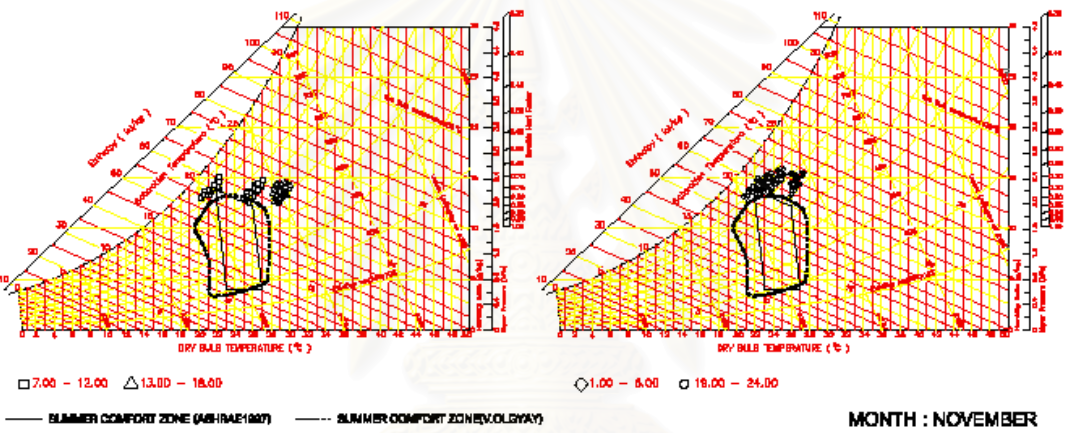
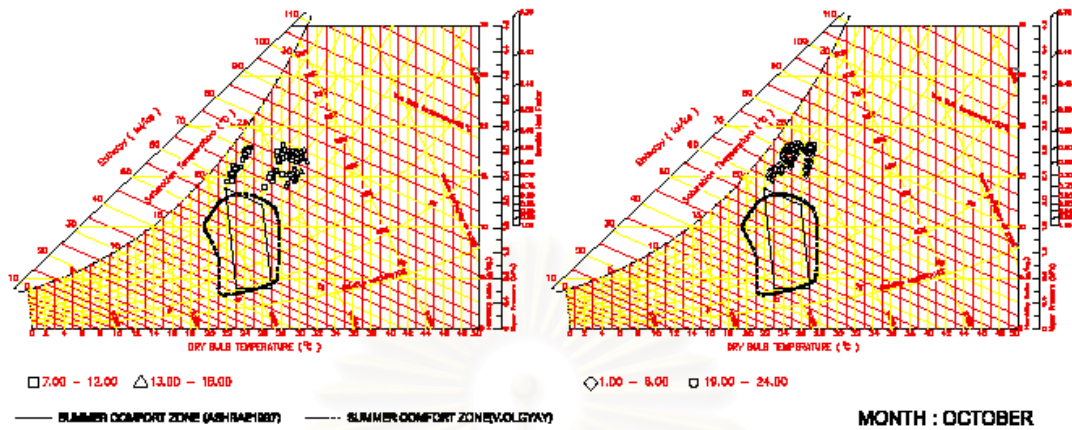
PSYCHROMETRIC CHART 1988 - 1998 (2528 - 2541) STATION : NAKHON RATCHASIMA



PSYCHROMETRIC CHART 1989 - 1996 (2528 - 2541) STATION : NAKHON RATCHASIMA



PSYCHROMETRIC CHART 1990 - 1998 (2529 - 2541) STATION : NAKHON RATCHASIMA



ตารางแสดงผลข้อมูลจำนวนรายชั่วโมงอุณหภูมิกระเปาะแห้ง และค่าเฉลี่ยอุณหภูมิกระเปาะเปียกที่เกิดขึ้น
จำแนกตามช่วงอุณหภูมิกระเปาะแห้ง (bin data) ในแต่ละช่วงเวลา

ANNUAL BIN-HOUR WEATHER DATA							STATION : NAKHON RATCHASIMA		
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				17 (25.5)			17 (25.5)	100 / 104	
35.0 / 37.2			22 (25.6)	262 (24.8)	58 (25.0)		342 (25.1)	95 / 99	
32.2 / 34.4			258 (25.0)	602 (24.6)	275 (24.7)	4 (25.3)	1,139 (24.9)	90 / 94	
29.4 / 31.7	3 (24.3)	9 (24.4)	536 (24.3)	360 (23.9)	553 (24.1)	168 (24.3)	1,629 (24.2)	85 / 89	
26.7 / 28.9	340 (23.9)	321 (23.9)	375 (23.4)	169 (22.7)	401 (23.1)	673 (23.7)	2,279 (23.4)	80 / 84	
23.9 / 26.1	726 (22.8)	661 (22.9)	175 (21.5)	48 (21.6)	152 (22.0)	461 (22.6)	2,223 (22.2)	75 / 79	
21.1 / 23.3	265 (20.6)	260 (20.7)	75 (19.0)		20 (19.9)	127 (19.9)	747 (20.0)	70 / 74	
18.3 / 20.6	94 (17.2)	143 (17.4)	18 (16.5)			25 (16.7)	280 (16.9)	65 / 69	
15.6 / 17.8	30 (15.2)	58 (15.3)	1 (14.2)			2 (15.2)	91 (15.0)	60 / 64	
12.8 / 15.0	2 (13.3)	8 (13.0)					10 (13.2)	55 / 59	
10.0 / 12.2								50 / 54	
7.2 / 9.4								45 / 49	
4.4 / 6.7								40 / 44	
1.7 / 3.9								35 / 39	

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

สถาบันวิทยบริการ
จุฬาลงกรณ์มหาวิทยาลัย

BIN-HOUR WEATHER DATA Hours of occurrence of DB in each bin with MCWB in parentheses																								STATION : NAKHON RATCHASIMA																																																
Temperature range °C	Observation hour group							Total Observation	MCWB	Observation hour group							Total Observation	MCWB	Observation hour group							Total Observation	MCWB	Temperature range °F																																												
	01:00 to 04:00	05:00 to 08:00	09:00 to 12:00	13:00 to 16:00	17:00 to 20:00	21:00 to 24:00	01:00 to 04:00			05:00 to 08:00	09:00 to 12:00	13:00 to 16:00	17:00 to 20:00	21:00 to 24:00	01:00 to 04:00	05:00 to 08:00			09:00 to 12:00	13:00 to 16:00	17:00 to 20:00	21:00 to 24:00																																																		
	July																								August																								March																							
40.6 / 42.8																																											105 / 109																													
37.8 / 40.0																															4 (24.6)						4 (24.6)	100 / 104																																		
35.0 / 37.2					10 (26.3)	2 (26.3)											4 (26.5)													59 (23.9)	11 (23.7)					70 (23.8)	95 / 99																																			
32.2 / 34.4					21 (25.2)	65 (26.5)	28 (26.1)									15 (26.0)	78 (26.2)	14 (26.1)													28 (24.2)	42 (23.5)	45 (23.6)	1 (26.0)	116 (24.1)		116 (24.1)	90 / 94																																		
29.4 / 31.7					66 (26.1)	30 (26.7)	52 (26.1)	31 (24.6)									74 (24.9)	39 (25.5)	57 (24.9)	6 (26.1)	176 (25.1)							1 (24.5)			43 (23.3)	15 (22.2)	49 (22.9)	21 (23.5)	129 (23.3)		129 (23.3)	85 / 89																																		
26.7 / 28.9					56 (24.1)	49 (24.0)	33 (24.6)	14 (24.7)	34 (25.0)	78 (24.8)	264 (24.5)																39 (23.9)	46 (23.8)	36 (24.5)	3 (24.4)	36 (24.6)	73 (24.2)	232 (24.2)	31 (22.9)	14 (22.7)	38 (22.5)	3 (22.3)	10 (21.2)	67 (22.6)	163 (22.4)		163 (22.4)	80 / 84																													
23.9 / 26.1					68 (23.9)	75 (23.9)	4 (24.1)	4 (24.4)	8 (24.7)	15 (24.5)	174 (24.2)																85 (23.8)	78 (23.6)				17 (24.0)	45 (23.9)	225 (23.8)	57 (21.6)	86 (22.1)	13 (20.3)	1 (21.0)	5 (21.4)	29 (20.9)	171 (21.2)		171 (21.2)	75 / 79																												
21.1 / 23.3																																	30 (19.6)	30 (19.7)	2 (18.1)			4 (21.4)	6 (20.6)			72 (19.9)		72 (19.9)	70 / 74																											
18.3 / 20.8																																	5 (16.3)	11 (16.8)								16 (16.5)		16 (16.5)	65 / 69																											
15.6 / 17.8																																	3 (15.5)									3 (15.5)		3 (15.5)	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																									
April																								May																								June																								
40.6 / 42.8																																											105 / 109																													
37.8 / 40.0																																											3 (26.0)						3 (26.0)	100 / 104																						
35.0 / 37.2						1 (26.4)	28 (24.9)	4 (24.8)																													10 (26.2)	80 (26.6)	20 (26.4)					110 (26.4)	95 / 99																											
32.2 / 34.4						36 (24.9)	64 (24.6)	26 (24.3)																													61 (26.4)	32 (26.5)	61 (26.4)	1 (26.0)	156 (26.3)		156 (26.3)	90 / 94																												
29.4 / 31.7						51 (24.4)	23 (24.2)	49 (24.1)	12 (24.3)	136 (24.3)	2 (24.1)	6 (24.7)	44 (26.0)	10 (26.4)	31 (26.1)	34 (24.6)	127 (24.8)													3 (24.1)	46 (24.9)	4 (26.3)	33 (26.3)	62 (24.7)	138 (24.8)							138 (24.8)		138 (24.8)	85 / 89																											
26.7 / 28.9						18 (23.7)	19 (23.6)	29 (23.6)	4 (24.0)	24 (23.7)	63 (23.6)	157 (23.7)	69 (24.0)	69 (24.1)	13 (24.6)	12 (24.7)	31 (24.7)	66 (24.3)	260 (24.4)													90 (24.1)	89 (24.1)	3 (24.1)			6 (23.5)	64 (24.3)	252 (24.0)		252 (24.0)	80 / 84																														
23.9 / 26.1						83 (22.7)	84 (22.7)	4 (22.5)	1 (22.6)	14 (22.8)	39 (22.6)	225 (22.7)	49 (23.6)	46 (23.7)	3 (23.9)	1 (24.4)	2 (22.9)	22 (23.6)	123 (23.7)													30 (23.6)	28 (23.5)				1 (23.0)		3 (24.3)	62 (23.6)		62 (23.6)	75 / 79																													
21.1 / 23.3						19 (21.5)	17 (21.6)			4 (21.5)	6 (21.9)	48 (21.6)	4 (22.4)	3 (22.4)					7 (22.4)																								7 (22.4)		7 (22.4)	70 / 74																										
18.3 / 20.8																																																	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



ตารางแสดงผลข้อมูลปริมาณองศาชั่วโมง การทำความร้อนและการทำความเย็น (degree hours and hours of occurrence)

DEGREE HOURS & HOURS OF OCCURRENCE								Station : NAKHON RATCHASIMA			
								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)	-	-	-	8,760.00	407,058.60	225,917.52			
36	2.2		-	-	-	8,760.00	398,298.60	221,055.72			
37	2.8	0	-	-	-	8,760.00	389,538.60	216,193.92			
38	3.3		-	-	-	8,760.00	380,778.60	211,332.12			
39	3.9		-	-	-	8,760.00	372,018.60	206,470.32			
40	4.4	(42.5)	-	-	-	8,760.00	363,258.60	201,608.52			
41	5.0		-	-	-	8,760.00	354,498.60	196,746.72			
42	5.6	0	-	-	-	8,760.00	345,738.60	191,884.92			
43	6.1		-	-	-	8,760.00	336,978.60	187,023.12			
44	6.7		-	-	-	8,760.00	328,218.60	182,161.32			
45	7.2	(47.5)	-	-	-	8,760.00	319,458.60	177,299.52			
46	7.8		-	-	-	8,760.00	310,698.60	172,437.72			
47	8.3	0	-	-	-	8,760.00	301,938.60	167,575.92			
48	8.9		-	-	-	8,760.00	293,178.60	162,714.12			
49	9.4		-	-	-	8,760.00	284,418.60	157,852.32			
50	10.0	52.5	-	-	-	8,760.00	275,658.60	152,990.52			
51	10.6		-	-	-	8,760.00	266,898.60	148,128.72			
52	11.1	0	-	-	-	8,760.00	258,138.60	143,266.92			
53	11.7		-	-	-	8,760.00	249,378.60	138,405.12			
54	12.2		-	-	-	8,760.00	240,618.60	133,543.32			
55	12.8	(57.5)	-	-	-	8,760.00	231,858.60	128,681.52			
56	13.3		-	-	-	8,760.00	223,098.60	123,819.72			
57	13.9	0	-	-	-	8,760.00	214,338.60	118,957.92			
58	14.4		-	-	-	8,760.00	205,578.60	114,096.12			
59	15.0		-	-	-	8,760.00	196,818.60	109,234.32			
60	15.6	(62.5)	15.00	-	-	8,760.00	188,058.60	104,372.52			
61	16.1		30.00	37.60	20.81	8,745.00	179,298.60	99,510.72			
62	16.7	75	45.00	75.00	41.83	8,730.00	170,538.60	94,648.92			
63	17.2		60.00	112.60	62.44	8,715.00	161,778.60	89,787.12			
64	17.8		75.00	160.00	83.25	8,700.00	153,018.60	84,925.32			
65	18.3	(67.5)	160.80	187.50	104.06	8,685.00	144,258.60	80,063.52			
66	18.9		246.60	477.00	284.74	8,599.20	135,498.60	75,201.72			
67	19.4	429	332.40	766.50	425.41	8,513.40	126,738.60	70,340.92			
68	20.0		418.20	1,056.00	586.06	8,427.60	117,978.60	65,479.12			
69	20.6		504.00	1,345.50	746.75	8,341.80	109,218.60	60,617.32			

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

DEGREE HOURS & HOURS OF OCCURRENCE								Station : NAKHON RATCHASIMA	
								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)	671.40	1,836.00	907.43	8,256.00	102,093.60	56,661.96	
71	21.7		838.80	2,567.50	1,419.41	8,088.60	94,256.10	52,312.14	
72	22.2	837	1,006.20	3,480.00	1,931.40	7,921.20	86,418.60	47,962.32	
73	22.8		1,173.60	4,402.50	2,443.39	7,753.80	78,581.10	43,612.51	
74	23.3		1,341.00	5,325.00	2,955.38	7,586.40	70,743.60	39,282.70	
75	23.9	(77.5)	1,851.00	6,247.50	3,467.36	7,419.00	62,906.10	34,912.89	
76	24.4		2,361.00	8,863.50	4,919.24	6,909.00	56,782.10	31,502.97	
77	25.0	2550	2,871.00	11,479.50	6,371.12	6,399.00	50,618.10	28,093.05	
78	25.6		3,381.00	14,095.50	7,823.00	5,889.00	44,474.10	24,683.13	
79	26.1		3,891.00	16,711.50	9,274.88	5,379.00	38,330.10	21,273.21	
80	26.7	(82.5)	4,320.00	19,327.50	10,726.76	4,869.00	32,186.10	17,863.29	
81	27.2		4,749.00	24,291.00	13,481.51	4,440.00	28,389.60	15,756.23	
82	27.8	2145	5,178.00	29,254.50	16,236.25	4,011.00	24,593.10	13,649.17	
83	28.3		5,607.00	34,218.00	18,990.99	3,582.00	20,796.60	11,542.11	
84	28.9		6,036.00	39,181.50	21,745.73	3,153.00	17,000.10	9,435.08	
85	29.4	(87.5)	6,375.60	44,145.00	24,500.48	2,724.00	13,203.60	7,328.00	
86	30.0		6,715.20	51,030.00	28,321.65	2,384.40	11,328.60	6,287.37	
87	30.6	1698	7,054.80	57,915.00	32,142.83	2,044.80	9,453.60	5,248.75	
88	31.1		7,394.40	64,800.00	36,964.00	1,705.20	7,578.60	4,206.12	
89	31.7		7,734.00	71,685.00	39,785.18	1,365.60	5,703.60	3,165.50	
90	32.2	(92.5)	7,892.40	78,570.00	43,606.35	1,026.00	3,828.60	2,124.87	
91	32.8		8,050.80	86,700.00	48,118.50	867.60	3,198.60	1,775.22	
92	33.3	792	8,209.20	94,830.00	52,630.65	709.20	2,568.60	1,425.57	
93	33.9		8,367.60	102,960.00	57,142.80	550.80	1,938.60	1,075.92	
94	34.4		8,526.00	111,090.00	61,654.95	392.40	1,308.60	726.27	
95	35.0	(97.5)	8,572.80	119,220.00	66,167.10	234.00	678.60	376.62	
96	35.6		8,619.60	127,863.00	70,963.97	187.20	514.80	285.71	
97	36.1	234	8,666.40	136,506.00	75,780.83	140.40	361.00	194.81	
98	36.7		8,713.20	145,149.00	80,567.70	93.60	187.20	103.90	
99	37.2		8,760.00	153,792.00	85,354.56	46.80	23.40	12.99	

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