

Monthly Weather Summary in Thailand June 2011

During June 2011, the moderate southwest monsoon that prevailed over the Andaman Sea, Thailand and the Gulf of Thailand occasionally strengthened. In addition, the monsoon trough lay across the northern, northeastern, central and eastern parts associated with the low pressure cell covering the Gulf of Tonkin and upper Vietnam in some period. These conditions caused abundant rainfalls in most areas of Thailand almost the month especially in late June that tropical storm "HAIMA" (1104) in the upper South China Sea made landfall over upper Vietnam on June 24. After making landfall, it downgraded to the tropical depression and passed through Lao before weakening to the active low pressure cell and moved further to cover Nan province in northern part of Thailand on June 26. As HAIMA neared upper Thailand the southwest monsoon became more strengthened which resulted in plentiful rainfall and heavy to very heavy rainfall in many areas, producing massive floods that seriously destroyed homes and croplands mainly in northern part during June 25 and 26. In Southern Thailand, abundant rainfall occurred in some period. Although nearly even distribution of rainfall occurred in the northeastern part and southern part (west coast), those monthly rainfall were 22.7 mm (11%) and 88.6 mm (28%) below normal, respectively. For the rest of the country, monthly rainfall were inversely above normal in northern part 64.8 (43%), central part 27.3 mm (20%), eastern part 5.3 mm (2%) and southern part (east coast) 12.3 mm (11%). Mean monthly temperatures of June were mostly above normal excepted for northern part recorded slightly below normal.

1 – 10 June: The monsoon trough lay across northern, northeastern, central and eastern Thailand during early period. In addition, the moderated to rather active southwest monsoon prevailed over the Andaman Sea, Thailand and the Gulf of Thailand throughout the period and the low pressure cell covered upper Vietnam on June 10. These conditions produced plentiful of rainfall in upper Thailand almost the period. The maximum daily rainfall of 165.0 mm was found at Nong Phai in Phetchabun province on June 1. Flash floods were reported at Phetchabun province on June 2, Tak and Mae Hong Son provinces on June 5. For southern part, scattered to fairly widespread rain was found with isolated heavy to very heavy rainfall mainly in the west coast. The highest daily rainfall was 148.4 mm at Mai Kaen in Pattani province on June 7.

11 – 20 June: With the strengthening of the southwest monsoon associated with the low pressure cell covering the Gulf of Tonkin, upper Vietnam and Lao, upper Thailand received more rainfall than the previous period. Isolated heavy to very heavy rainfall was found in some places mainly in the second half of this period. The maximum daily rainfall of 216.0 mm was recorded in upper Thailand at Muang in Trat province on June 18. Thunderstorms were reported at Trat province on June 13 and 16 with flash floods at Chanthaburi province on June 17. Southern Thailand obtained scattered to fairly widespread rain with isolated heavy rainfall. The highest daily rainfall amount was 75.0 mm at Chaiburi in Surat Thani province on June 17. Thunderstorm was reported at Narathiwat province on June 16.

21 – 30 June: Effected by the weakening southwest monsoon, Thailand obtained isolated to widely scattered rain during the early period. After that the combination effect of the rather strong southwest monsoon and the remnant of the tropical storm "HAIMA" induced substantial rainfall in Thailand at the end of June. The maximum daily rainfall of 335.2 mm was found at Doi Phuka National Park in Nan province on June 25. Flash flood and landslide was reported at Phare, Chiang Rai, Phayao, Nan, Tak and Sukhothai provinces in late June. In southern part, widely scattered to scattered rain almost the whole period. The highest daily rainfall was 95.0 mm at Panare in Pattani province on June 28.

Breaking record of daily rainfall in June

Station	New Record in 2011		Previous Record		Start since
	Rainfall (mm)	Date	Rainfall (mm)	Date / Year	
Phayao	93.6	25	82.0	27/1983	1981
Tak (Mae Sot)	110.1	25	98.5	22/2004	1951
Nan (Thung Chang)	153.4	25	82.3	10/2002	1996
Bangkok Port	152.2	30	96.7	28/1998	1994

Note : Rainfall, temperatures and natural disasters in this report were updated up to July 4 2011.

Climatological Center
 Meteorological Development Bureau
 Meteorological Department

Monthly Current Report
Rainfall and Accumulative Rainfall
June 2011

Northern Thailand

Station	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
	Mean	Above or below normal	Actual	Above or below normal	Actual	Above or below normal
Chiang Rai	27.4	0.3	306.9	112.1	751.2	222.8
Mae Hong Son	27.6	0.2	199.7	15.3	607.2	166.3
Phayao	27.4	-0.2	204.7	102.9	695.2	291.9
Chiang Mai	27.8	0.2	216.8	97.4	665.9	302.4
Tha Wang Pha	28.3	1.1	393.6	36.5	740.5	-61.0
Nan	28.3	0.2	239.6	106.2	808.3	359.0
Lamphun	27.6	-0.6	201.8	78.6	736.9	403.1
Lampang	27.7	-0.4	199.0	84.3	768.0	406.0
Mae Sariang	26.6	-0.2	290.5	112.2	715.5	302.4
Phrae	27.6	-0.5	170.9	50.3	684.0	271.5
Uttaradit	28.3	-0.5	173.0	-12.8	732.6	187.2
Bhumibol Dam	27.6	-0.9	159.3	71.2	707.9	347.5
Tak	28.0	-0.3	136.3	12.1	583.8	230.4
Mae Sot	26.4	0.2	463.4	228.1	904.2	442.2
Umphang	25.0	0.1	269.9	78.9	871.9	350.1
Phitsanulok	28.3	-0.6	235.5	55.7	671.2	210.0
Lom Sak	28.2	0.0	59.5	-77.0	392.3	-37.7
Phetchabun	28.3	0.2	114.6	-29.6	693.1	262.2
Wichian Buri	28.9	-0.1	168.5	31.9	634.8	181.6
Kamphaeng Phet	28.0	-0.4	122.5	-27.1	595.0	155.4
Over the area	27.7	-0.1	216.3	64.8 43%	698.0	262.9 60%

Northeastern Thailand

Station	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
	Mean	Above or below normal	Actual	Above or below normal	Actual	Above or below normal
Nong Khai	28.3	0.2	262.9	1.2	595.3	-26.4
Loei	27.7	0.0	209.4	34.7	605.8	70.3
Udon Thani	28.4	-0.1	129.4	-88.5	455.9	-113.2
Nakhon Phanom	27.9	0.3	414.7	14.4	730.1	-91.2
Sakon Nakhon	28.1	0.1	257.1	-12.8	686.8	19.6
Mukdahan	28.3	0.1	384.2	123.0	607.6	20.4
Khon Kaen	28.6	0.0	155.5	-13.0	329.1	-139.1
Kosum Phisai	29.3	0.4	64.9	-128.1	366.1	-136.1
Roi Et	29.0	0.5	84.3	-125.0	366.2	-163.1
Chaiyaphum	28.5	0.1	105.1	-47.4	430.3	-22.7
Ubon Ratchathani	28.2	0.1	184.3	-76.7	598.3	-1.2
Tha Tum	29.0	0.1	262.0	46.5	436.2	-91.1
Surin	28.4	0.2	235.9	29.7	633.6	124.2
Nakhon Ratchasima	29.3	0.5	83.0	-28.8	402.0	26.6
Chok Chai	28.7	0.1	99.9	-13.9	308.4	-91.0
Nang Rong	28.4	-0.1	62.8	-78.0	541.7	103.1
Over the area	28.5	0.1	187.2	-22.7 -11%	505.8	-32.0 -6%

- NOTES : 1) Input data are received via ssb radio each day. They have not been certified yet, so this current report has to be checked with monthly weather reports later.
2) Mean temperature is the average of daily dry-bulb temperature
3) "T" is trace, rainfall amount less than 0.1 mm.
4) "blank" is incomplete data.

Monthly Current Report
Rainfall and Accumulative Rainfall
June 2011

Central Thailand

Station	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
	Mean	Above or below normal	Actual	Above or below normal	Actual	Above or below normal
Nakhon Sawan	28.9	-0.6	83.8	-26.6	661.9	288.8
Bua Chum	28.9	0.0	119.5	7.4	332.5	-55.6
Lop Buri	28.9	0.1	106.3	-7.3	461.7	84.8
Suphan Buri	29.3	0.2	50.4	-49.8	398.6	86.6
Thong Pha Phum	26.8	-0.2	308.0	3.7	888.1	216.1
Kanchanaburi	29.2	0.3	42.9	-40.9	553.2	215.0
Bangkok Airport	29.1	0.2	204.0	68.8	849.8	434.1
Bangkok Metropolis	29.2	0.1	411.9	262.4	1038.5	535.5
Over the area	28.8	0.0	165.9	27.3 20%	648.0	225.7 53%

Eastern Thailand

Station	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
	Mean	Above or below normal	Actual	Above or below normal	Actual	Above or below normal
Prachin Buri	28.6	-0.1	276.8	25.0	811.5	142.9
Kabin Buri	27.7	-0.6	146.9	-78.7	443.0	-148.0
Aranyaprathet	28.7	0.5	176.0	4.7	500.2	-6.8
Chon Buri	29.5	0.2	158.2	14.9	576.4	127.2
Ko Sichang	29.1	-0.2	89.6	-34.2	417.5	19.3
Pattaya	28.4	-0.5	144.2	40.0	555.6	160.4
Sattahip	29.0	-0.2	164.1	48.4	607.7	139.6
Rayong	29.1	-0.3	278.5	110.8	630.7	62.8
Chanthaburi	28.0	0.4	534.4	19.1	1152.4	81.9
Khlong Yai	27.4	0.1	805.9	-97.0	1772.1	106.6
Over the area	28.6	0.0	277.5	5.3 2%	746.7	68.5 10%

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Southern Thailand, east coast

Station	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
	Mean	Above or below normal	Actual	Above or below normal	Actual	Above or below normal
Phetchaburi	29.2	0.3	77.7	-15.3	390.3	144.0
Hua Hin	29.1	0.3	80.0	2.2	251.4	-19.8
Prachuap Khiri Khan	28.3	0.2	138.9	43.3	408.0	39.8
Chumphon	27.8	0.4	200.9	27.1	952.5	322.4
Surat Thani	28.1	0.6	69.5	-44.6	1186.2	742.5
Ko Samui	29.1	0.6	91.1	-17.6	1762.7	1183.0
Nakhon Si Thammarat	28.4	0.4	128.7	29.6	2549.4	1905.1
Songkhla	28.8	0.0	152.5	59.4	1105.6	679.9
Hat Yai Airport	27.8	0.3	63.8	-43.0	744.9	240.1
Pattani Airport	27.9	0.2	161.2	50.3	816.4	377.5
Narathiwat	27.7	-0.2	171.3	44.3	1544.1	971.4
Over the area	28.4	0.3	121.4	12.3 11%	1064.7	598.7 128%

Southern Thailand, west coast

Station	Temperature (°c)		Rainfall (mm)		Accumulative rainfall (mm) Since 1 January	
	Mean	Above or below normal	Actual	Above or below normal	Actual	Above or below normal
Ranong	27.5	0.6	420.3	-275.8	1521.0	145.7
Takua Pa	27.8	0.0	396.8	-5.1	1722.9	505.9
Phuket	29.5	1.2	194.4	-49.6	937.1	163.9
Phuket Airport	28.8	0.7	210.1	-52.3	1149.0	287.7
Ko Lanta	28.8	0.3	107.7	-111.1	535.3	-151.9
Trang Airport	28.0	0.8	106.0	-119.4	959.3	256.2
Satun	27.9	0.1	185.8	-7.2	1048.3	236.6
Over the area	28.3	0.5	231.6	-88.6 -28%	1124.7	206.4 22%

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