

Monthly Weather Summary in Thailand July 2019

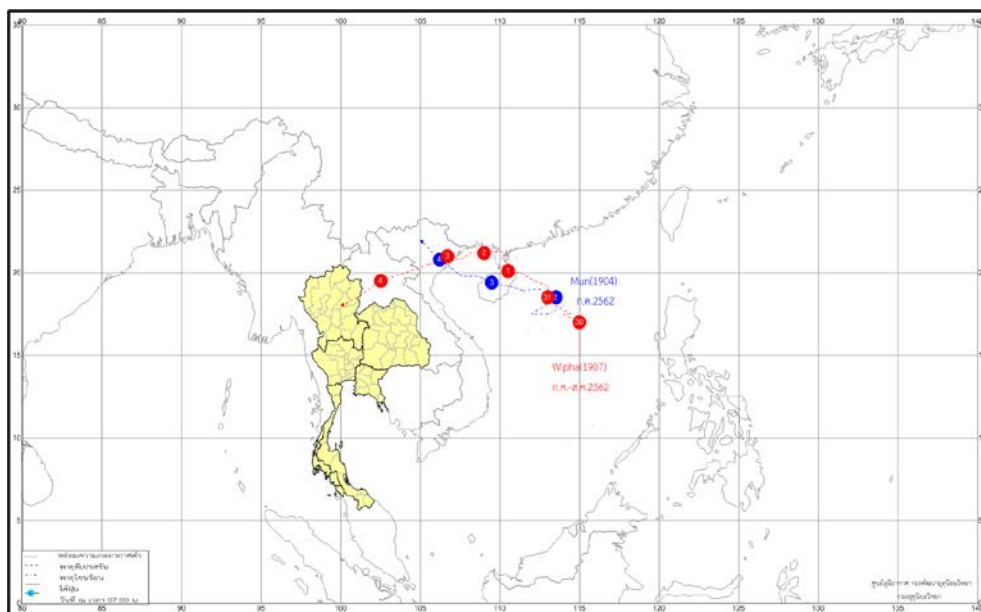
In July 2019, the monsoon trough which lay across the upper northern Thailand had shifted northwards to lie over Southern China during the middle of the month and weakened and disappeared. Consequently, less rainfall was observed in majority areas of upper Thailand with prolonged absence of rainfall for more than 2 weeks in some places which induced below normal rainfall in all regions. The average total rainfall over Thailand in this month was 21 percent lower than normal with the lowest normal rainfall of 37 percent and 24 percent in the central and northeastern regions, respectively. However, there were 2 tropical cyclones in the upper South China Sea having some effects on rainfall in Thailand including tropical storm “MUN” (1904) that made landfall over upper Vietnam during early month and tropical storm “WIPHA” (1907) that moved close to the Hainan Island on the last day of the month in addition with the covering of the low pressure cell over upper Vietnam during late month. These conditions caused increasing in amount and distribution of rainfall in upper Thailand during this period. In southern part, there was less rainfall except for during the middle of the month that received plentiful of rain due to the active southwest monsoon during that time. Monthly rainfall was lower than normal in every parts of Thailand i.e. northern part 35.4 mm (20%), northeastern part 51.0 mm (24%), central part 57.8 mm (37%), eastern part 57.0 mm (21%), southern part (eastern coast) 22.0 mm (19%) and southern part (west coast) 43.6 mm (13%). The average total rainfall over Thailand in this month was 21 percent lower than normal. Mean temperatures were about 1.0 degree celsius above normal in all parts.

1 – 10 July: During early period, the monsoon trough lay across upper northern and Laos to the active low pressure cell in the upper South China Sea on the first day of the period. It intensified into the tropical depression at 07.00 p.m. of July 1 and reached tropical storm strength “MUN” (1904) at 07.00 p.m. of July 2 after that it moved through the Hainan Island to the Gulf of Tonkin before making landfall over upper Vietnam at 04.00 a.m. of July 4. It moved further inland and downgraded into the tropical depression at Hanoi, Vietnam at 10.00 a.m. on the same day and degenerated into an areas of low pressure cell over upper Vietnam on the following day. Also, the active southwest monsoon prevailed over the Andaman Sea, southern part and the Gulf of Thailand during the first half of the period and later weakened and blowing over upper Andaman Sea and Thailand. These conditions caused plentiful of rain in the northern and northeastern parts with fairly widespread rain during early period with isolated heavy to very heavy rainfall in some areas after that rainfall decreased. The central and eastern part received fairly widespread rain with heavy to very heavy rainfall in some areas during the first half of the period then isolated rain with heavy rainfall in some areas. The highest daily rainfall was 127.0 mm at Tha Uthen in Nakhon Phanom province on July 2. Gusty wind was reported at Ubon Ratchathani province on July 1 and at Chon Buri province on July 2 with flooding at Samut Prakarn province on July 4 and flash flooding at Tak province on July 8. In southern Thailand, there was less rainfall, isolated rain with heavy to very heavy rainfall in some areas was observed along the east coast while isolated rain almost the period along the west coast. The maximum daily rainfall of 100.0 mm was measured at Amphoe Mueang in Phatthalung province on July 6.

11 – 20 July: The monsoon trough shifted northwards to lie over Southern China during early period after that it weakened and disappeared. Also, the southwest monsoon that prevailed over the Andaman Sea and Thailand was weakened. These caused scanty rain in upper Thailand with isolated rain and heavy rainfall in some areas almost the whole period and very heavy rain in the lower coastal of the

eastern part at Chanthaburi and Trat provinces during late period. The maximum daily rainfall in upper Thailand was 156.6 mm at Plew Agrometeorological station in Khlung, Chanthaburi province on July 18. Southern part obtained scattered rain during the first half of the period with heavy to very heavy rainfall in some areas. After that, rainfall increased both amount and distribution along the west coast due to the active southwest monsoon. The highest daily rainfall in southern part was 275.0 mm at Takua Pa in Phang-nga province on July 18 with flash flooding at Phang-nga province on July 21 and at Ranong and Krabi provinces on July 19.

21 – 31 July: Under the influence of the southwest monsoon prevailed over the Andaman Sea and Thailand in addition with the low pressure cell covered upper Thailand almost the period. In addition, the active low pressure cell in the upper South China Sea intensified into the tropical depression at 07.00 a.m. of July 30. It moved north-westward and reached tropical storm strength “WIPHA” (1907) at 07.00 a.m. of July 31 and later approached Hainan Island, China on the next time. As a result, rainfall was relatively increased in upper Thailand with fairly widespread rain almost the whole period and heavy to very heavy rainfall in some areas in the northern and northeastern parts. The central and eastern parts received isolated to scattered rain with heavy rainfall in some areas during the beginning and the end of the period while fairly widespread rain with isolated heavy to very heavy rainfall was found during the middle of the period. The maximum daily rainfall in upper Thailand was 148.2 mm at Chiang Kham in Phayao province on July 30. Flash floods was reported at Phayao province on July 30 and at Chiang Rai province on July 30 and 31 and also at Mae Hong Son and Chanthaburi provinces on July 31. In southern part, rainfall relatively decreased with isolated to scattered rain almost the whole period and heavy rainfall in some places. The highest daily rainfall was 67.0 mm at Mayo in Pattani province on July 24.



Note : 1) Rainfall, temperatures and natural disasters in this report were updated up to August 2, 2019.

Monthly Current Report
Rainfall and Accumulative Rainfall
July 2019

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	28.3	1.6	210.3	-100.6	460.8	-389.3
Mae Hong Son	27.5	0.5	180.3	-46.6	532.9	-151.4
Phayao	28.2	1.2	151.4	9.6	332.3	-226.3
Chiang Mai	29.0	1.8	97.2	-43.0	308.0	-206.9
Tha Wang Pha	28.5	1.3	262.6	-5.8	651.3	-125.5
Nan	28.8	1.1	225.6	24.9	683.4	23.0
Lamphun	29.2	1.4	53.0	-64.0	273.0	-188.3
Lampang	29.4	1.6	98.7	-35.9	394.9	-117.9
Mae Sariang	26.7	0.5	186.5	5.3	469.7	-123.7
Phrae	28.9	1.2	113.8	-40.4	462.0	-133.4
Uttaradit	29.4	1.0	85.7	-80.7	326.2	-391.0
Bhumibol Dam	29.3	1.1	24.1	-42.6	235.5	-232.0
Tak	29.1	1.0	59.3	-28.4	376.8	-94.1
Mae Sot	26.1	0.3	362.8	33.8	771.6	-57.2
Umphang	25.2	0.7	187.3	-44.3	613.4	-165.8
Phitsanulok	29.2	0.7	53.6	-125.8	404.0	-211.8
Lom Sak	28.9	1.3	91.0	-37.6	480.5	-64.0
Phetchabun	29.1	1.4	135.9	-12.9	500.7	-118.2
Wichian Buri	29.3	0.7	205.4	59.5	574.6	-34.5
Kamphaeng Phet	29.4	1.3	28.0	-131.4	444.2	-180.7
Over the area	28.5	1.1	140.6	-35.4 -20%	464.8	-159.6 -26%

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	29.6	1.8	154.2	-127.2	811.8	-105.6
Loei	29.3	1.9	45.9	-99.9	268.0	-401.0
Udon Thani	29.2	1.0	170.5	-40.4	620.6	-169.9
Nakhon Phanom	28.4	1.1	475.2	-27.8	1262.4	-102.4
Sakon Nakhon	28.7	1.0	226.5	-62.2	631.7	-336.2
Mukdahan	28.6	0.8	210.8	-21.1	567.1	-234.0
Khon Kaen	29.4	1.3	110.5	-62.8	507.2	-153.5
Kosum Phisai	29.9	1.3	129.1	-30.9	476.0	-182.6
Roi Et	29.4	1.1	144.9	-51.0	448.3	-297.1
Chaiyaphum	29.8	1.8	56.4	-54.0	390.5	-160.4
Ubon Ratchathani	28.7	0.7	318.5	64.1	767.7	-70.2
Tha Tum	29.2	0.6	130.7	-87.5	478.1	-270.6
Surin	29.0	1.1	227.1	5.8	560.1	-201.7
Nakhon Ratchasima	30.2	1.6	40.7	-80.2	245.2	-267.9
Chok Chai	29.7	1.4	60.3	-58.6	203.9	-308.9
Nang Rong	29.5	1.4	65.4	-82.6	358.9	-239.2
Over the area	29.3	1.3	160.4	-51.0 -24%	537.3	-218.9 -29%

- NOTES : 1) Mean temperature is the average of daily dry-bulb temperature
2) "T" is trace, rainfall amount less than 0.1 mm.
3) "blank" is incomplete data.
4) Temperature and rainfall are preliminary data.

Monthly Current Report
Rainfall and Accumulative Rainfall
July 2019

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	29.7	0.9	72.3	-75.7	522.9	-26.1
Bua Chum	29.8	1.3	150.4	33.4	352.7	-159.8
Lop Buri	29.6	1.0	73.0	-47.1	273.6	-243.8
Suphan Buri	30.0	1.3	28.1	-70.7	249.7	-136.4
Thong Pha Phum	27.1	0.6	185.9	-137.3	548.8	-450.2
Kanchanaburi	29.8	1.2	25.6	-77.3	304.8	-158.8
Bangkok Airport	29.7	0.7	100.0	-59.1	556.5	-127.6
Bangkok Metropolis	29.5	0.5	146.4	-28.7	436.1	-310.6
Over the area	29.4	0.9	97.7	-57.8 -37%	405.6	-201.7 -33%

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	29.6	1.1	219.0	-52.9	740.8	-177.0
Kabin Buri	28.3	0.4	220.7	-20.5	621.8	-193.8
Aranyaprathet	29.1	1.0	68.2	-98.2	504.0	-165.4
Chon Buri	30.0	0.8	103.7	-36.9	513.3	-96.1
Ko Sichang	29.6	0.7	64.9	-58.5	439.6	-97.1
Pattaya	29.5	1.0	18.9	-78.5	468.9	-43.0
Sattahip	30.2	1.3	27.4	-80.1	503.6	-88.6
Rayong	29.7	0.7	82.7	-89.1	624.3	-120.3
Chanthaburi	28.5	0.9	542.7	59.5	1539.7	-100.8
Khlong Yai	27.4	0.4	856.8	-114.8	2731.6	79.5
Over the area	29.2	0.8	220.5	-57.0 -21%	868.8	-100.3 -10%

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Monthly Current Report
Rainfall and Accumulative Rainfall
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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	29.6	0.9	80.1	-0.7	299.4	-58.2
Hua Hin	29.4	0.8	53.7	-39.3	259.5	-148.7
Prachuap Khiri Khan	29.2	1.2	40.1	-69.2	323.1	-172.8
Chumphon	28.5	1.3	105.3	-73.7	741.6	-82.5
Surat Thani	28.1	1.0	67.6	-81.2	537.3	-61.0
Ko Samui	29.4	1.1	112.4	-3.9	578.0	-122.8
Nakhon Si Thammarat	28.7	0.8	90.3	-27.5	832.9	13.7
Songkhla	28.8	0.5	168.3	73.3	642.2	69.5
Hat Yai Airport	27.8	0.4	91.6	-12.9	607.2	-36.2
Pattani Airport	28.1	0.5	151.0	21.9	705.5	122.6
Narathiwat	28.3	0.8	105.2	-28.8	755.0	10.2
Over the area	28.7	0.8	96.9	-22.0 -19%	571.1	-42.5 -7%

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	28.0	1.1	396.9	-223.8	1743.4	-267.1
Takua Pa	28.0	0.6	539.2	109.3	1928.3	231.6
Phuket	29.2	1.0	251.6	-6.6	867.7	-133.9
Phuket Airport	28.8	0.9	330.3	68.8	1398.7	281.2
Ko Lanta	28.3	0.1	281.4	-14.9	1162.4	148.4
Trang Airport	27.9	0.9	143.2	-115.3	889.7	-63.8
Satun	27.8	0.4	107.8	-122.8	924.7	-117.7
Over the area	28.3	0.7	292.9	-43.6 -13%	1273.6	11.3 1%

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