

## Monthly Weather Summary in Thailand May 2022

May 2022, Thailand experienced abundant rainfall almost the month with higher than normal rainfall in majority areas due to the influence of the southwest monsoon had prevailed over the Andaman Sea, Thailand and the Gulf of Thailand since the middle of the month resulting in successive rainfall which regarding as the beginning of rainy season of Thailand on May 13. In addition, the effect of tropical cyclone that moved from the Bay of Bengal to cover the coastal of India during early month causing the easterly and the southeasterly wind that prevailed over Thailand, the Gulf of Thailand and the southern part was strengthened. Moreover, the active low pressure cell which covered the coast of Myanmar and the upper Gulf of Mataban has moved to cover northern Thailand during 19-21 May, the monsoon trough lay across the northern and northeastern parts of Thailand, the low pressure cell covering the upper Vietnam and the Gulf of Tonkin for few days brought periodically plentiful rain with heavy to very heavy rainfall in many areas leading flash flooding in several areas. The average total rainfall over Thailand in May was 32% higher than normal and some stations had the new highest record of the daily and monthly total rainfall. Monthly rainfall was higher than normal in almost parts i.e. northern part 66.3 mm (38%), northeastern part 45.4 mm (24%), central part 25.7 mm (16%), southern part (east coast) part 157.5 mm (121%) and southern part (west coast) 78.7 mm (26%) except for eastern part was lower than normal 24.9 mm (12%).

**1 - 10 May :** Hot weather persisted in some areas of the northern part on the first day of the period. After that, the moderate high pressure areas from China extended to cover upper Thailand and the South China Sea and later downgraded during the middle and the end of the period causing cool weather in the morning in many areas with cold weather in some areas especially in the northeastern part that experienced generally cool weather during the first half of the period. The lowest minimum temperature was 13.6 °C at Umphang in Tak province on May 4. However, the temperature was relatively increased with hot weather in some areas with the highest maximum temperature of 38.5 °C at Mae Sot in Tak province on May 1. For rainfall, due to the influence of the high pressure areas extended its ridge to cover upper Thailand and the easterly and southerly winds blowing over Thailand, the Gulf of Thailand and the southern part was strengthened in the second half of the period resulted in fairly widespread to widespread rain during early period and in the second half of the period. The maximum daily rainfall was 265.0 mm at Ramkhamhaeng National Park in Sukhothai province on May 10. Flood were reported in Tak province on May 2, Chiang Mai and Nakhon Phanom provinces on May 7, Ubon Ratchathani province on May 9. Gusty wind was reported in Nakhon Nayok province on May 2. In southern part, the low pressure cell which covered Cambodia on the first day of the period moved into the Gulf of Thailand covering the southern Thailand on May 3, the moderate easterly and the southeasterly winds prevailing over the Gulf of Thailand, southern part and the Andaman Sea caused plentiful rainfall throughout the period especially widespread rain in the east coast almost the period with heavy to very heavy rainfall in several areas while fairly widespread rain with isolated heavy to very heavy rainfall was observed along the west coast. The maximum daily rainfall was 131.2 mm at Yi-ngo in Narathiwat province on May 3. Flood were reported in Surat Thani province on May 4-7, Chumphon province on May 5, Songkhla province on May 9 and Prachuap Khiri Khan province on May 10. Gusty wind occurred in Nakhon Si Thammarat province on May 3.

**11 - 20 May :** The southerly and southeasterly wind prevailed over Thailand during early period then the southwest monsoon prevailed over the Andaman Sea, Thailand and the Gulf of Thailand and strengthened during the second half of the period. In addition, the low pressure cell

covering upper Vietnam and the Gulf of Tonkin during the first half of the period, the intense low pressure cell covering coastal of Myanmar and the Mataban Gulf during May 19-20, the monsoon trough lying across the central, upper eastern and lower northeastern parts on the last day of the period and the high pressure area from China extended its ridge to cover upper northeastern part during the middle of the period and later weakened. These caused abundant rainfall with scattered to fairly widespread rain in the northern and northeastern parts almost the period and heavy to very heavy rainfall in many areas during the middle and the end of the period. In the central and eastern parts, most rainfall was observed in the second half of the period with fairly widespread rain with heavy to very heavy rainfall in some places. The highest daily rainfall in upper Thailand was 253.0 mm at Phachi, Phra Nakhon Si Ayutthaya province on May 17. Flood occurred in Mae Hong Son province on May 11, Nakhon Ratchasima province on May 16, Phrae, Lampang, Nan, Uttaradit, Kamphaeng Phet, Phayao, Phra Nakhon Si Ayutthaya provinces on May 17, Phitsanulok and Chiang Mai provinces on May 18 and Tak province on May 19. Gusty wind occurred in Kamphaeng Phet, Phayao, Maha Sarakham, Nakhon Sawan provinces on May 12, Nong Khai, Chaiyaphum, Amnat Charoen and Ubon Ratchathani provinces on May 14, Chiang Rai province on May 15, Sukhothai, Nakhon Nayok and Trat provinces on May 16 and landslide was reported in Chiang Mai province on May 18. In southern part, widespread rain was reported along the west coast with heavy to very heavy rainfall in some areas while scattered to fairly widespread rain was found along the east coast with heavy to very heavy rainfall in some areas. The highest daily rainfall was 106.0 mm in Rue So, Narathiwat province on May 15 with gusty wind reported in Phang-nga province on May 11 and in Nakhon Si Thammarat province on May 18.

**21 - 31 May :** Under the influence of the intense low pressure cell which covered upper Mataban Gulf moved to cover the northern part of Thailand on the first day of the period and the monsoon trough which lay across the northern and northeastern part during the early period shifted to lie over upper northern of Thailand into the low pressure cell over Vietnam and the Gulf of Tonkin during the middle of the period. In addition, the southwest monsoon which prevailed over the Andaman Sea, Thailand and the Gulf of Thailand was strengthened during the second half of the period coupled with the low pressure cell covered Laos and upper Vietnam during the second half of the period. These caused fairly widespread rain in the northern and northeastern parts on the first and the last day of period especially on the first day of the period that obtained heavy to very heavy rainfall in many areas whereas scattered rain with isolated heavy to very heavy rainfall was found for the rest days. Central and eastern parts received scattered rain with heavy to very heavy rainfall in some areas. The highest daily rainfall was 216.8 mm at Chiang Rai 1 Factors of Production and Plant Academic Service Center in Chiang Rai province on May 21. Floods occurred in Nakhon Ratchasima and Buriram provinces on May 24. Gusty wind was reported in Maha Sarakham province on May 24, Mae Hong Son province on May 25, Kanchanaburi province on May 27 and Samut Songkhram province on May 28. For southern part, isolated to scattered rain was found along the east coast during the beginning and the middle of the period after that increasing in rainfall to fairly widespread rain with heavy rain in some places while scattered to fairly widespread was observed along the west coast during the first half of the period after that rainfall increased to widespread rain with heavy to very heavy rain in some places. The highest daily rainfall was 171.9 mm at Thai Mueang Self Help Settlement in Phang-nga province on May 29 with gusty wind in Nakhon Si Thammarat province on May 23 and 28 and in Songkhla province on May 28 and 29.

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**Breaking record of daily maximum rainfall in May 2022**

Station	New Record 2022		Previous Record		Start Year
	Rainfall (mm)	Date	Rainfall (mm)	Date / Year	
Chiang Rai Agromet. Stn.	122.2	21	107.9	30/2009	1979
Lampang Agromet. Stn.	103.0	20	91.9	9/2011	1982
Mae Sot, Tak	175.6	21	121.9	2002	1954

**Breaking record of monthly total rainfall in May 2022**

Station	New Record 2022	Previous Record		Start Year
	Rainfall (mm)	Rainfall (mm)	Date / Year	
Lampang Agromet. Stn.	346.6	335.0	2011	1982
Mae Sot, Tak	394.4	381.3	1966	1954
Kamalasai, Kalasin	354.8	333.6	2001	1998
Nang Rong, Burirum	384.4	349.5	1978	1970
Mueang, Chumphon	477.7	426.7	2007	1951
Sawi, Chumphon	565.0	529.1	1989	1969
Ko Samui, Surat Thani	476.4	432.7	1970	1969
Mueang, Nakhon Si Thammarat	424.7	328.7	2008	1952
Nakhon Si Thammarat Agromet. Stn.	496.3	402.0	1986	1984

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**Note** : Rainfall, temperatures and natural disasters in this report were updated up to June 6, 2022

Climatological Center  
 Meteorological Development Division  
 Meteorological Department

Monthly Current Report  
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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	27.5	0.0	247.8	22.5	504.9	124.0
Mae Hong Son	28.2	-1.0	181.6	12.8	312.9	49.0
Phayao	27.7	-0.4	232.6	54.2	627.6	310.4
Chiang Mai	28.3	-0.3	392.0	224.5	700.3	437.2
Tha Wang Pha	27.9	-0.5	223.2	47.5	649.7	315.2
Nan	28.2	-0.8	174.6	5.2	493.6	166.2
Lamphun	28.5	-0.5	289.7	124.1	479.9	231.7
Lampang	28.6	-0.6	200.4	24.4	344.7	48.3
Mae Sariang	27.8	-1.4	276.4	107.6	416.8	152.9
Phrae	28.3	-1.0	191.3	19.9	439.6	128.8
Uttaradit	29.1	-1.0	196.3	-11.3	410.6	81.4
Bhumibol Dam	28.8	-0.9	213.8	23.7	380.3	80.1
Tak	28.7	-1.3	277.4	107.3	515.0	251.6
Mae Sot	27.7	-0.7	394.4	240.9	508.5	283.7
Umphang	25.7	-0.3	285.8	105.0	569.9	215.3
Phitsanulok	29.0	-1.1	261.5	95.9	473.2	195.9
Lom Sak	28.7	-0.2	55.7	-78.6	178.9	-83.1
Phetchabun	28.9	-0.2	94.6	-73.2	271.5	-49.1
Wichian Buri	28.9	-0.8	193.4	49.9	551.8	239.3
Kamphaeng Phet	28.5	-1.1	405.6	214.5	650.0	344.2
Over the area	28.3	-0.7	239.4	66.3 38%	474.0	177.7 60%

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.

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	28.0	-1.0	270.4	40.9	758.7	378.1
Loei	27.3	-0.7	120.0	-68.0	401.7	59.0
Udon Thani	27.9	-1.3	265.7	77.4	357.7	20.6
Nakhon Phanom	27.2	-1.5	257.3	-6.3	456.1	6.2
Sakon Nakhon	26.8	-1.9	250.3	18.0	384.3	-30.2
Mukdahan	27.3	-1.9	218.2	15.9	378.4	44.8
Khon Kaen	27.3	-1.8	192.5	37.4	368.2	57.2
Kosum Phisai	27.8	-1.8	361.8	183.4	458.9	119.0
Roi Et	27.6	-1.8	292.1	111.3	471.0	149.3
Chaiyaphum	28.1	-1.1	82.1	-65.1	323.0	22.1
Ubon Ratchathani	27.8	-1.5	347.9	125.0	597.2	248.9
Tha Tum	27.5	-2.2	76.5	-91.6	230.2	-83.6
Surin	27.6	-1.6	270.7	84.3	673.0	337.3
Nakhon Ratchasima	27.9	-1.6	252.3	101.6	424.0	128.9
Chok Chai	27.9	-1.2	98.4	-49.9	348.2	68.7
Nang Rong	27.3	-1.7	384.4	212.1	650.4	323.1
Over the area	27.6	-1.5	233.8	45.4 24%	455.1	115.6 34%

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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	29.2	-1.1	116.6	-44.3	362.4	85.5
Bua Chum	28.9	-0.7	191.6	55.5	458.1	182.1
Lop Buri	29.1	-0.9	68.0	-65.3	229.1	-38.6
Suphan Buri	29.1	-1.2	186.2	66.4	358.8	147.4
Thong Pha Phum	27.6	-0.9	346.3	141.7	639.7	268.5
Kanchanaburi	28.8	-1.4	152.7	13.3	409.3	138.3
Bangkok Airport	29.2	-1.0	286.0	72.2	602.6	217.3
Bangkok Metropolis	29.5	-0.8	182.8	-34.1	427.8	22.3
Over the area	28.9	-1.0	191.3	25.7 16%	436.0	127.8 41%

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	28.9	-0.9	215.3	14.5	410.4	32.7
Kabin Buri	28.0	-1.1	150.4	-13.0	483.0	127.3
Aranyaprathet	28.5	-1.1	145.8	3.2	502.5	173.7
Chon Buri	29.4	-0.8	133.2	-23.1	434.3	110.3
Ko Sichang	28.3	-1.5	173.1	46.1	311.9	25.6
Pattaya	28.7	-0.7	64.0	-57.1	261.0	-10.3
Sattahip	28.9	-1.0	93.3	-62.0	586.3	226.4
Rayong	29.2	-0.7	169.9	-20.5	344.0	-62.9
Chanthaburi	28.1	-0.5	368.7	-1.6	747.7	102.1
Khlong Yai	28.2	-0.2	276.2	-135.7	734.4	-139.2
Over the area	28.6	-0.9	179.0	-24.9 -12%	481.6	58.6 14%

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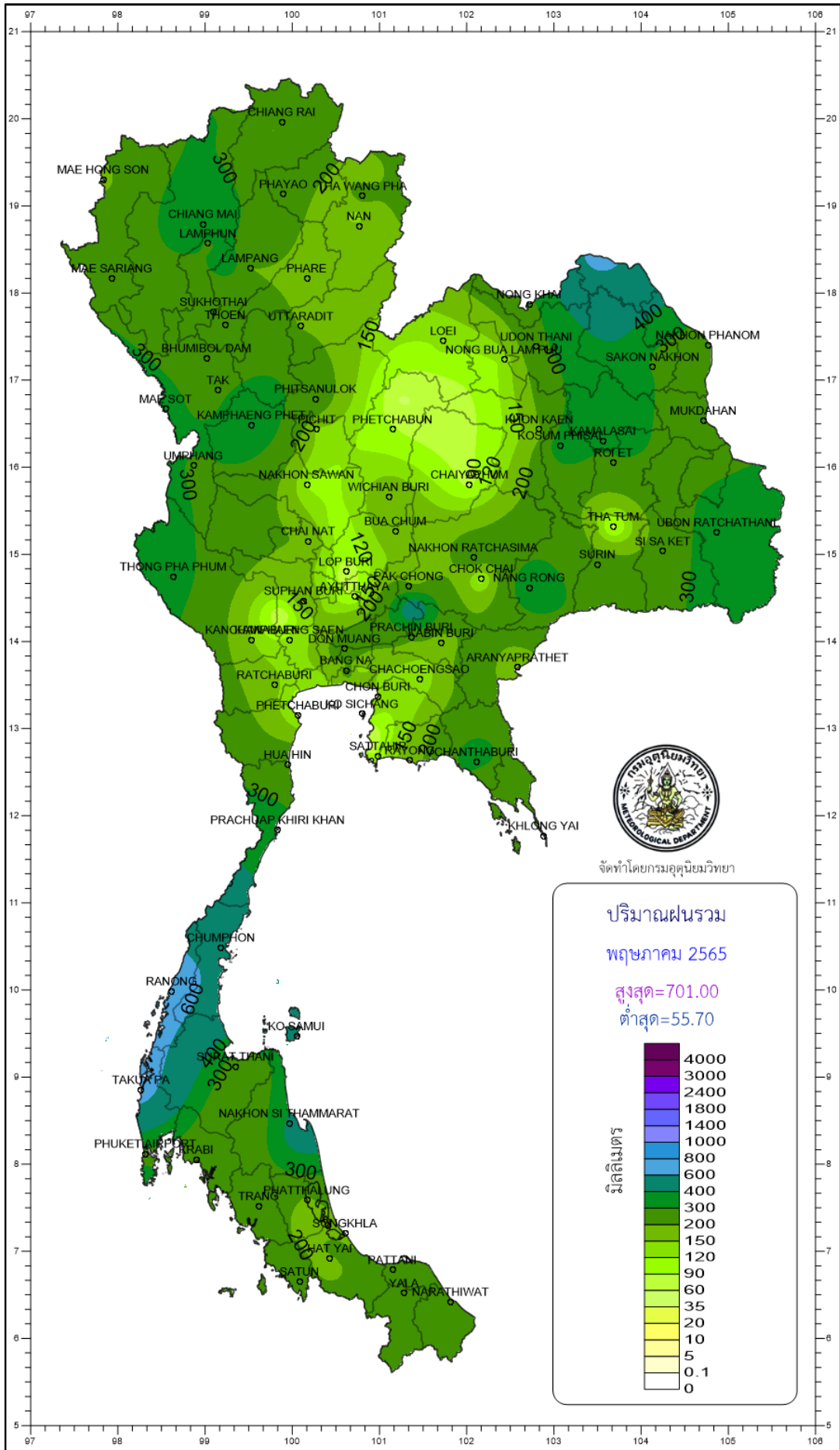
Southern Thailand, east coast

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	28.4	-1.4	116.6	21.1	407.3	207.3
Hua Hin	28.4	-1.1	283.2	187.7	541.5	310.4
Prachuap Khiri Khan	28.0	-1.2	333.5	220.4	741.3	427.9
Chumphon	27.3	-1.0	477.7	307.4	1043.7	523.0
Surat Thani	27.5	-0.6	239.4	80.8	830.4	441.0
Ko Samui	28.5	-0.7	473.5	341.9	1155.9	635.4
Nakhon Si Thammarat	28.0	-0.4	424.7	264.8	1609.3	864.5
Songkhla	28.8	-0.2	167.1	52.4	788.6	334.6
Hat Yai Airport	27.8	-0.2	184.4	55.9	719.2	278.8
Pattani Airport	28.3	-0.2	222.3	90.0	773.2	373.4
Narathiwat	28.3	-0.1	248.2	110.0	1221.7	611.3
Over the area	28.1	-0.7	288.2	157.5 121%	893.8	455.2 104%

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	27.4	-0.6	692.7	207.2	1188.6	410.7
Takua Pa	27.7	-0.2	701.0	271.6	1331.2	428.6
Phuket	29.1	0.0	324.3	87.4	655.8	129.9
Phuket Airport	28.7	0.0	263.9	-13.6	655.4	21.1
Ko Lanta	28.5	-0.4	200.2	-26.4	577.6	107.5
Trang Airport	27.7	-0.4	237.0	21.1	769.5	223.2
Satun	28.3	0.0	232.6	3.9	884.4	231.0
Over the area	28.2	-0.2	378.8	78.7 26%	866.1	221.7 34%

- NOTES :
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จัดทำโดยกรมอุตุนิยมวิทยา

