

Monthly Weather Summary in Thailand

May 2025

May 2025, hot weather persisted in upper Thailand during the beginning of the month, with very hot in some areas of the northern region. After that, from the middle of the month onwards, rainfall increased in both amounts and distribution across most regions due to the influence of the southwest monsoon prevailing over the Andaman Sea and Thailand. These conditions resulted in continuous rainfall across Thailand, indicating the beginning of the rainy season on May 15. Additionally, the high-pressure area from China covered Vietnam and the South China Sea in the middle of the month, causing southeasterly and southerly winds to dominate upper Thailand. Moreover, the monsoon trough lay across upper Thailand and shifted over the upper southern region, with the easterly wave pass through the Gulf of Thailand, southern region and the Andaman Sea for a few days. These conditions caused widespread rain across Thailand, with intermittent heavy to very heavy rainfall, inducing flooding in several areas and flash flood in some places. Overall, the average rainfall across Thailand this month was 52% higher than normal, with some stations setting new records of the highest daily and monthly rainfall totals. The monthly rainfall exceeded normal rainfall in all regions i.e. northern region 89.7 mm (52%), northeastern region 88.7 mm (47%), central region 114.9 mm (69%), eastern region 119.3 mm (58%), southern region (east coast) region 44.8 mm (34%) and southern region (west coast) 196.1 mm (56%).

1 - 10 May : During the early period, the southerly and southeasterly wind prevailed over upper Thailand, then the southerly and southwesterly wind blew over the mentioned areas. The heat low-pressure area covered upper Thailand for few days. Additionally, the high pressure areas from China extended to cover Vietnam and the South China Sea at the end of the period, inducing the southeasterly and southerly prevailed over upper Thailand. As a result, hot weather persisted across most of upper Thailand almost the entire period with very hot weather in some areas of the northern region. The highest maximum temperature of 41.0 °C at Amphoe Mueang in Mae Hong Son province on May 7. Rainfall in upper Thailand was mainly observed at the beginning and the end of the period, with scattered to fairly widespread rain and heavy to very heavy rainfall in some areas. The maximum daily rainfall was 166.5 mm at Phitsanulok Rice Research Center, Wang Thong in Phitsanulok province on May 3. There were many reports of gusty wind in several provinces, including Udon Thani and Kalasin provinces on June 1, Phrae, Lamphun, and Surin provinces on June 2, Samut Sakhon province on June 3, Chaiyaphum province on June 6, Nan, Phichit, Phetchabun, Nong Khai, Sakon Nakhon, Nakhon Phanom, and Nong Bua Lamphu provinces on June 7, Phayao and Kalasin provinces on June 8, Tak, Nan, Phichit, Phitsanulok, Phetchabun, Kamphaeng Phet, Maha Sarakham, Amnat Charoen, Nakhon Sawan, and Uthai Thani provinces on June 9, Mae Hong Son, Lampang, Amnat Charoen, Uthai Thani, Samut Prakan, Prachin Buri, and Chachoengsao provinces on June 10. There were reports of flooding in Samut Prakan province on June 1, Samut Sakhon and Chon Buri provinces on June 3, Samut Prakan and Bangkok Metropolis on June 6, and Nakhon Ratchasima, Buri Ram, Sa Kaeo, Samut Prakan, and Bangkok Metropolis on June 10. Flash floods were reported in Lampang province on June 2. In the southern region, during the early period, easterly and southeasterly winds prevailed over the Gulf of Thailand, the South, and the Andaman Sea. Additionally the easterly wave moved across the Gulf of Thailand, the South, and the Andaman Sea on May 3-5 with the prevailing of the westerly and southwesterly winds over the Andaman Sea, the South, and the Gulf of Thailand in the second half of the period. These caused fairly widespread rain with heavy to very heavy rainfall in some areas of the southern east coast mainly in the first half of the period. Fairly widespread rain was found nearly entire period in the

southern west coast with isolated heavy to very heavy rainfall. The highest rainfall was 126.0 mm in Ko Lanta, Krabi, on June 6. Flooding was reported in Pattani and Phuket provinces on June 3, Surat Thani and Nakhon Si Thammarat provinces on June 6 and flash floods occurred in Pattani province on June 3.

11 - 20 May : At the beginning of the period, a high-pressure area from China covered Vietnam and the South China Sea and southeasterly and southerly winds prevailed over upper Thailand at this time. After that, the southwest monsoon began to dominate the Andaman Sea and Thailand, mainly affecting the Andaman Sea and the western part of Thailand in the latter half of the period. Meanwhile, southeasterly and southerly winds prevailed over lower northern, northeastern, central, eastern regions, and the Gulf of Thailand from the middle of the period and weakening at the end of the period. These conditions resulted in abundant rainfall over upper Thailand during the beginning and the middle of the period, with fairly widespread rain and heavy to very heavy rainfall in some areas, followed by a decrease in rainfall in most areas. The highest rainfall recorded in upper Thailand was 204.6 mm at the Huai Pong Agrometeorological Station in Rayong province on June 12. There were reports of gusty wind in Chiang Rai, Nan, Phayao, Lampang, Lamphun, Sukhothai, and Nakhon Sawan provinces on June 11, Maha Sarakham province on June 14, June 16 and Pathum Thani province on June 20. Flooding was reported in Uthai Thani, Samut Prakan, and Bangkok Metropolis on June 12, Rayong province on June 13, Lampang, Samut Prakan, and Bangkok Metropolis on June 16 and Chiang Mai province on June 17 and 18. Additionally, flash floods occurred in Nan province on June 11 and Nakhon Ratchasima province on June 19. In the southern region, the southwest monsoon prevailed over the Andaman Sea, while southeasterly wind blew over the Gulf of Thailand. This caused rainfall throughout the period, especially on the western coast where fairly widespread rain was observed almost the period, with heavy to very heavy rain in some areas. The eastern coast obtained fairly widespread rain at the beginning and the middle of the period, then scattered rain at the end of the period with heavy to very heavy rain some areas. The highest daily rainfall was 137.4 mm in Takua Pa, Phang-nga province on June 12. Flooding was also reported in Phuket province on June 12 and Surat Thani province on June 20.

21 - 31 May : The monsoon trough lay across upper Thailand for most of the period. It lay over lower northern, upper central, northeastern, and eastern regions. At times, it shifted southward to cover lower central, eastern, and upper southern regions. At the end of the period, the trough moved northward to lie across upper northern Thailand and upper Laos. Additionally, the southwest monsoon that prevailed over the Andaman Sea, Thailand, and the Gulf of Thailand, strengthening in the middle of the period. These conditions caused abundant rainfall in upper Thailand almost throughout the period, especially the northern and northeastern regions that received fairly widespread rain with heavy to very heavy rainfall almost the entire period. The central and eastern regions received scattered to fairly widespread rain with isolate heavy to very heavy rain. The heaviest daily rainfall was 155.9 mm at Bhumibol Dam, Sam Ngao in Tak province, on June 26. Flooding was reported in many areas, including Chiang Rai, Phetchabun, Nakhon Ratchasima, Samut Prakan, Nonthaburi, and Bangkok Metropolis on June 21, Pathum Thani province on June 23, Mae Hong Son, Samut Sakhon, Nonthaburi, and Bangkok Metropolis on June 24, Samut Prakan province on June 25, Lampang, Chiang Rai, and Nong Khai provinces on June 23-25, Phetchabun province on June 26, Phrae, Loei, Chaiyaphum, Rayong, and Samut Prakan provinces on June 27, Chiang Mai province on June 23-27, Nakhon Ratchasima province on June 25-27 and Samut Prakan province on June 29. There were also reports of flash floods in Chaiyaphum and Nakhon Ratchasima provinces on June 21, Chiang Rai, Chiang Mai, Lampang, and Nong Khai provinces on June 23, Lampang province on June 24, and Nakhon Ratchasima province on June 25 and 27.

Landslides were reported in Chiang Mai on June 25 and gusty wind was reported in Prachin Buri province on June 31. In the southern region, the southwest monsoon prevailed over the Andaman Sea, the southern, and the Gulf of Thailand almost entire the period. In addition, the monsoon trough lay over upper southern region during the middle of the period. These brought rainfall in southern region, with scattered to fairly widespread rain along the eastern coast with heavy to very heavy rainfall in some places. The southern west coast received fairly widespread rain with heavy rain in many areas and very heavy rain in some places mostly in the first half of the period. The highest rainfall was 103.5 mm in Kapong, Phang-nga province, on June 23. Additionally, gusty wind were reported in Krabi province on June 25 and in Nakhon Si Thammarat province on June 27 and 31.

Breaking record of daily maximum rainfall in May 2025

| Station | New Record 2025 | | Previous Record | | Start Year |
|---------------------------------|-----------------|------|-----------------|-------------|------------|
| | Rainfall (mm) | Date | Rainfall (mm) | Date / Year | |
| Amphoe Mueang, Mae Hong Son | 116.8 | 23 | 98.6 | 19/1986 | 1955 |
| Roi Et Agromet. Stn. | 102.8 | 25 | 84.5 | 26/1989 | 1983 |
| Bua Chum, Chai Badan, Lop Buri | 129.2 | 18 | 102.4 | 16/2001 | 1970 |
| Aranyaprathet, Sa Kaeo | 109.7 | 10 | 98.5 | 1/2010 | 1952 |
| Huai Pong Agromet. Stn., Rayong | 204.6 | 12 | 152.0 | 4/1971 | 1969 |

Breaking record of monthly total rainfall in May 2025

| Station | New Record 2025 | Previous Record | | Start Year |
|----------------------------------|-----------------|-----------------|-------------|------------|
| | Rainfall (mm) | Rainfall (mm) | Date / Year | |
| Amphoe Mueang, Phrae | 453.6 | 389.5 | 2012 | 1952 |
| Amphoe Mueang, Udon Thani | 478.6 | 419.5 | 1988 | 1951 |
| Amphoe Mueang, Nakhon Ratchasima | 346.3 | 324.3 | 1952 | 1951 |
| Amphoe Mueang, Rayong | 475.7 | 427.7 | 2024 | 1981 |
| Huai Pong Agromet. Stn., Rayong | 582.7 | 439.7 | 1971 | 1969 |

Note : Rainfall, temperatures and natural disasters in this report were updated up to June 6, 2025

Climatological Center
Meteorological Development Division
Meteorological Department

Monthly Current Report
Rainfall and Accumulative Rainfall
May 2025

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 | 27.6 | 0.1 | 336.5 | 110.0 | 474.1 | 91.3 |
| Mae Hong Son | 29.4 | 0.2 | 362.2 | 193.3 | 376.1 | 111.9 |
| Phayao | 27.7 | -0.4 | 204.5 | 26.1 | 330.0 | 12.5 |
| Chiang Mai | 28.6 | 0.0 | 349.6 | 182.1 | 497.9 | 234.8 |
| Tha Wang Pha | 28.2 | -0.2 | 113.1 | -62.6 | 339.8 | 5.3 |
| Nan | 28.9 | -0.1 | 128.9 | -41.3 | 249.9 | -80.1 |
| Lamphun | 28.8 | -0.2 | 308.2 | 142.6 | 383.9 | 135.7 |
| Lampang | 29.1 | -0.1 | 219.0 | 42.6 | 329.2 | 31.9 |
| Mae Saring | 28.8 | 0.0 | 133.4 | -25.5 | 219.3 | -13.1 |
| Phrae | 28.5 | -0.8 | 453.6 | 282.2 | 571.2 | 260.4 |
| Uttaradit | 29.5 | -0.6 | 387.0 | 179.4 | 536.9 | 207.7 |
| Bhumibol Dam | 28.2 | -1.5 | 433.1 | 241.9 | 594.8 | 293.5 |
| Tak | 29.4 | -0.6 | 227.2 | 57.1 | 341.9 | 78.4 |
| Mae Sot | 28.5 | 0.2 | 248.9 | 95.4 | 422.1 | 197.3 |
| Umphang | 26.4 | 0.4 | 219.9 | 39.1 | 493.6 | 138.9 |
| Phitsanulok | 29.7 | -0.4 | 127.9 | -37.7 | 207.7 | -69.6 |
| Lom Sak | 28.4 | -0.5 | 193.7 | 59.4 | 299.2 | 37.2 |
| Phetchabun | 28.8 | -0.3 | 197.5 | 29.5 | 337.3 | 16.3 |
| Wichian Buri | 29.4 | -0.3 | 258.2 | 114.7 | 542.8 | 231.9 |
| Kamphaeng Phet | 29.6 | 0.0 | 358.2 | 167.1 | 441.8 | 136.0 |
| Over the area | 28.7 | -0.2 | 263.0 | 89.7 52% | 399.5 | 102.9 35% |

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 | 29.1 | 0.1 | 409.2 | 177.1 | 521.4 | 132.7 |
| Loei | 27.5 | -0.5 | 286.5 | 98.0 | 466.0 | 121.4 |
| Udon Thani | 28.5 | -0.7 | 478.6 | 290.3 | 611.5 | 272.4 |
| Nakhon Phanom | 28.9 | 0.2 | 186.7 | -78.1 | 342.2 | -109.4 |
| Sakon Nakhon | 28.5 | -0.2 | 294.4 | 62.0 | 401.6 | -13.0 |
| Mukdahan | 29.3 | 0.1 | 130.6 | -72.0 | 183.2 | -151.0 |
| Khon Kaen | 28.5 | -0.6 | 217.9 | 62.9 | 291.4 | -19.5 |
| Kosum Phisai | 29.1 | -0.5 | 379.5 | 201.1 | 528.6 | 187.7 |
| Roi Et | 29.3 | -0.1 | 343.1 | 162.3 | 434.3 | 112.4 |
| Chaiyaphum | 28.9 | -0.3 | 129.5 | -18.3 | 340.4 | 36.6 |
| Ubon Ratchathani | 29.4 | 0.1 | 338.7 | 115.8 | 367.0 | 18.4 |
| Tha Tum | 28.8 | -0.9 | 164.2 | -4.1 | 214.4 | -99.7 |
| Surin | 29.0 | -0.2 | 262.9 | 76.5 | 379.7 | 43.7 |
| Nakhon Ratchasima | 28.6 | -0.9 | 346.3 | 194.6 | 525.2 | 226.4 |
| Chok Chai | 28.7 | -0.4 | 193.0 | 44.2 | 382.1 | 100.5 |
| Nang Rong | 27.7 | -1.3 | 279.0 | 106.7 | 398.0 | 70.6 |
| Over the area | 28.7 | -0.4 | 277.5 | 88.7 47% | 399.2 | 58.1 17% |

NOTES : 1) Mean temperature is the average of daily dry-bulb temperature
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4) Temperature and rainfall are preliminary data.

Monthly Current Report
Rainfall and Accumulative Rainfall
May 2025

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 | 29.8 | -0.5 | 302.1 | 141.0 | 390.0 | 111.9 |
| Bua Chum | 29.3 | -0.3 | 293.0 | 156.9 | 492.8 | 216.7 |
| Lop Buri | 29.7 | -0.3 | 178.2 | 44.9 | 226.2 | -41.6 |
| Suphan Buri | 30.3 | 0.0 | 263.3 | 143.5 | 306.0 | 93.2 |
| Thong Pha Phum | 28.6 | 0.1 | 287.7 | 81.2 | 599.9 | 226.7 |
| Kanchanaburi | 29.9 | -0.3 | 209.6 | 70.2 | 275.2 | 4.1 |
| Bangkok Airport | 29.0 | -1.2 | 347.4 | 133.6 | 575.6 | 192.7 |
| Bangkok Metropolis | 29.6 | -0.7 | 364.9 | 148.1 | 532.0 | 125.9 |
| Over the area | 29.5 | -0.4 | 280.8 | 114.9 69% | 424.7 | 116.1 38% |

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 | 29.3 | -0.5 | 283.2 | 82.4 | 485.4 | 107.7 |
| Kabin Buri | 28.4 | -0.7 | 238.4 | 75.0 | 361.0 | 6.0 |
| Aranyaprathet | 29.3 | -0.3 | 346.0 | 203.4 | 541.3 | 212.1 |
| Chon Buri | 29.4 | -0.8 | 372.7 | 216.4 | 558.6 | 234.5 |
| Ko Sichang | 29.0 | -0.8 | 185.0 | 58.0 | 256.3 | -30.5 |
| Pattaya | 28.7 | -0.7 | 298.2 | 177.1 | 408.6 | 136.1 |
| Sattahip | 29.0 | -0.9 | 327.4 | 168.6 | 451.8 | 89.9 |
| Rayong | 29.1 | -0.8 | 475.7 | 285.2 | 765.0 | 357.8 |
| Chanthaburi | 28.5 | -0.1 | 383.3 | 11.2 | 725.3 | 77.3 |
| Khlong Yai | 28.5 | 0.1 | 336.3 | -83.6 | 856.0 | -32.5 |
| Over the area | 28.9 | -0.6 | 324.6 | 119.3 58% | 540.9 | 115.8 27% |

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
May 2025

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 | 29.7 | -0.1 | 92.8 | -2.7 | 137.6 | -62.7 |
| Hua Hin | 29.5 | 0.0 | 155.5 | 60.0 | 281.6 | 50.3 |
| Prachuap Khiri Khan | 29.4 | 0.2 | 143.4 | 29.8 | 317.5 | 2.8 |
| Chumphon | 28.6 | 0.3 | 192.4 | 21.4 | 587.7 | 64.8 |
| Surat Thani | 28.0 | -0.1 | 156.8 | 5.6 | 474.7 | 67.1 |
| Ko Samui | 29.0 | -0.2 | 154.0 | 22.4 | 672.6 | 151.2 |
| Nakhon Si Thammarat | 28.5 | 0.1 | 271.0 | 111.1 | 872.3 | 127.3 |
| Songkhla | 29.1 | 0.1 | 151.9 | 37.1 | 570.1 | 116.1 |
| Hat Yai Airport | 28.0 | 0.0 | 175.4 | 46.9 | 589.4 | 149.1 |
| Pattani Airport | 28.5 | 0.0 | 153.3 | 19.4 | 496.2 | 94.6 |
| Narathiwat | 28.4 | 0.0 | 279.6 | 141.4 | 933.4 | 317.6 |
| Over the area | 28.8 | 0.0 | 175.1 | 44.8 34% | 539.4 | 98.0 22% |

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 | 27.9 | -0.1 | 306.3 | -179.6 | 638.4 | -140.2 |
| Takua Pa | 27.3 | -0.6 | 808.6 | 377.7 | 1245.9 | 341.0 |
| Phuket | 28.7 | -0.4 | 492.0 | 255.1 | 829.1 | 302.5 |
| Phuket Airport | 28.5 | -0.2 | 489.1 | 211.6 | 801.5 | 164.9 |
| Ko Lanta | 28.1 | -0.8 | 479.7 | 252.2 | 742.9 | 269.7 |
| Trang Airport | 28.0 | -0.1 | 350.2 | 133.5 | 695.9 | 145.7 |
| Satun | 28.3 | 0.0 | 361.7 | 133.0 | 757.8 | 100.7 |
| Over the area | 28.1 | -0.3 | 469.7 | 169.1 56% | 815.9 | 169.1 26% |

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