

Monthly Weather Summary in Thailand December 2012

December is normally cool and cold weather with the lowest mean temperature across Thailand, but December 2012 was warmer than usual. Mean monthly temperature of 26.4 °C was 2.5 °C above normal. Affected by a high pressure areas from China extending eastward and frequently dominated the South China Sea, it became easterly wind over Thailand, the Gulf of Thailand and southern Thailand accompanied with the northeast monsoon prevailing over the Gulf of Thailand and southern part during late December. These caused mild winter nearly the whole country with the intermittent cold weather especially in the northern and northeastern parts. For rainfall, isolated rain occurred in upper Thailand for few days while abundant rainfall occurred in southern Thailand mainly during middle and late December. Monthly rainfall was higher than normal in most parts i.e. central 5.1 mm (94%), eastern part 4.2 mm (55%) southern part (east coast) 83.8 mm (37%) and southern part (west coast) 45.8 mm (70%) while it was inversely lower than normal 1.1 mm (14%) in northern part and 1.2 mm (34%) in northeastern part, respectively.

1-10 December: The moderate high pressure area from China covered northeastern part and the South China Sea during early and mid-periods then another rather active high pressure area from China extended to cover the said areas. Cool weather occurred in several areas of the northern and northeastern parts during the first half of the period after that the temperature relatively decreased to cold weather in some areas in northern part and cool weather in some areas from elsewhere. The minimum temperature of the period was 12.6 °C, at Amphoe Muang, Mae Hong son province on December 9 and 5.0 °C was in the area of the mountain top at Doi Angkhang, Amphoe Fang in Chiang Mai province on the same day. Upper Thailand received unseasonable rainfall with the maximum daily rainfall was 55.6 mm at Amphoe Pluak Daeng in Rayong province on December 8. Southern Thailand experienced scattered to fairly widespread rain with isolated heavy rainfall by the influence of the easterly wind during the first half and the last day of the period. The heaviest daily rainfall was 70.4 mm at Amphoe Ron Phibun in Nakhon Si Thammarat province on December 10.

11-20 December: The ridge of rather active high pressure from China continuously covered upper Thailand and the South China Sea almost the whole period coupled with the northwesterly wind prevailing over the upper portion of northern part during late period, causing cold in upper northern part with generally cool weather in northern, northeastern, upper area of central, eastern and southern parts. Mountainous areas and mountaintop experienced cold and very cold weather. The lowest minimum temperature was 12.1 °C at Thung Chang in Nan province on December 17. In the mountainous areas and mountain top, 2.5 °C was measured at Doi Angkhang, Amphoe Fang in Chiang Mai province on December 18

and frost also occurred at the same place on December 16 and 18. There was isolated rain with heavy rainfall in some areas of upper Thailand during early period. The southern part was affected by the easterly wind almost the period and unsettled weather such as easterly wave during mid-period causing scattered to fairly widespread rain in the areas from Chumphon southward with isolated heavy to very heavy rainfall mainly in mid-period. The heaviest daily rainfall of 125.6 mm was measured at Walailak University in Nakhon Si Thammarat province on December 14.

21-31 December: During this period, temperature was relatively decreased nationwide causing cool weather in most areas of upper Thailand and cold in several areas in northern and northeastern parts. The lowest minimum temperature of 11.0 °C was measured at Sakon Nakhon Agrometeorological Station in Sakon Nakhon province on December 31 and 3.0 °C over the area of mountaintop at Doi Angkhang, Chiang Mai province on December 22. For rainfall, there was scanty rainfall in upper Thailand while southern part was affected by easterly wind and northeast monsoon producing plentiful of rainfall nearly the whole period especially during the early and the end of the period that obtained heavy rainfall in several areas and very heavy rainfall in some areas. The highest daily rainfall was 229.8 mm at Amphoe Muang in Narathiwat province on December 23 with flash flooding at Narathiwat on December 23, at Surat Thani on December 24 and Phattalung on December 23, 30 and 31.

***Note :** Rainfall, temperatures and natural disasters in this report were updated up to January 4, 2013.*

Climatological Center
Meteorological Development Bureau
Meteorological Department

Monthly Current Report
Rainfall and Accumulative Rainfall
December 2012

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 | 22.1 | 3.2 | 7.3 | -11.2 | 1904.5 | 202.3 |
| Mae Hong Son | 21.8 | 1.1 | 7.3 | -7.0 | 1565.7 | 283.4 |
| Phayao | 22.6 | 2.8 | 39.7 | 28.2 | 1128.6 | 32.7 |
| Chiang Mai | 24.3 | 3.2 | 1.0 | -17.1 | 958.4 | -175.6 |
| Tha Wang Pha | 23.1 | 3.0 | 2.8 | -6.5 | 1172.0 | -224.3 |
| Nan | 23.9 | 3.5 | 0.0 | -6.8 | 1159.8 | -77.5 |
| Lamphun | 23.7 | 2.6 | 9.3 | 2.1 | 925.7 | -36.7 |
| Lampang | 24.2 | 3.2 | 3.4 | -4.2 | 1219.3 | 159.3 |
| Mae Sariang | 22.9 | 2.0 | 0.3 | -8.5 | 1289.0 | 149.3 |
| Phrae | 24.4 | 2.8 | 0.0 | -7.0 | 1383.5 | 301.6 |
| Uttaradit | 26.2 | 2.8 | 0.4 | -3.7 | 1475.3 | 65.0 |
| Bhumibol Dam | 25.0 | 2.3 | 0.0 | -7.2 | 961.5 | -74.4 |
| Tak | 26.2 | 3.6 | 0.0 | -5.2 | 1031.4 | -22.4 |
| Mae Sot | 25.1 | 3.4 | 0.0 | -4.2 | 2052.6 | 657.3 |
| Umphang | 22.9 | 3.5 | 5.6 | 2.4 | 1822.6 | 395.1 |
| Phitsanulok | 26.7 | 2.6 | 0.0 | -6.6 | 1233.5 | -102.1 |
| Lom Sak | 26.8 | 3.3 | 0.0 | -4.5 | 929.6 | -114.7 |
| Phetchabun | 26.9 | 3.7 | 11.9 | 5.3 | 1044.5 | -34.6 |
| Wichian Buri | 27.3 | 2.8 | 19.7 | 14.8 | 1069.8 | -134.4 |
| Kamphaeng Phet | 26.6 | 2.9 | 31.0 | 25.4 | 1301.1 | 20.8 |
| Over the area | 24.6 | 2.9 | 7.0 | -1.1 -14% | 1281.4 | 63.6 5% |

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 | 25.4 | 3.7 | 1.8 | -3.2 | 1522.2 | -17.1 |
| Loei | 24.5 | 3.7 | 29.0 | 23.5 | 1052.4 | -185.1 |
| Udon Thani | 25.3 | 3.2 | 0.5 | -4.5 | 888.5 | -502.3 |
| Nakhon Phanom | 25.2 | 3.6 | 0.0 | -4.8 | 2037.3 | -218.5 |
| Sakon Nakhon | 25.1 | 3.4 | 0.0 | -6.3 | 1741.0 | 141.1 |
| Mukdahan | 25.8 | 3.9 | 0.0 | -2.7 | 1051.9 | -455.2 |
| Khon Kaen | 26.2 | 3.6 | 0.0 | -5.1 | 1034.4 | -174.9 |
| Kosum Phisai | 26.4 | 3.3 | 0.0 | -4.4 | 1434.3 | 215.7 |
| Roi Et | 26.1 | 3.6 | 0.8 | -1.3 | 1204.1 | -141.2 |
| Chaiyaphum | 26.8 | 3.4 | 4.5 | -0.8 | 1087.2 | -30.8 |
| Ubon Ratchathani | 26.5 | 3.2 | 0.0 | -1.3 | 1658.9 | 77.5 |
| Tha Tum | 26.7 | 3.2 | 0.0 | -0.9 | 1200.8 | -189.1 |
| Surin | 26.8 | 3.5 | 0.0 | -1.0 | 1009.1 | -342.5 |
| Nakhon Ratchasima | 26.7 | 3.6 | 0.0 | -3.0 | 1054.0 | 19.3 |
| Chok Chai | 26.5 | 3.2 | 0.0 | -1.8 | 813.6 | -283.0 |
| Nang Rong | 25.7 | 2.3 | 0.0 | -2.3 | 1277.4 | 89.2 |
| Over the area | 26.0 | 3.4 | 2.3 | -1.2 -34% | 1254.2 | -124.9 -9% |

- 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
December 2012

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 | 27.1 | 2.5 | 2.9 | -2.0 | 1118.7 | 41.3 |
| Bua Chum | 27.0 | 2.9 | 22.8 | 19.9 | 1201.4 | 116.2 |
| Lop Buri | 28.1 | 2.5 | 0.0 | -4.4 | 1058.8 | -65.0 |
| Suphan Buri | 27.8 | 3.2 | 0.0 | -9.3 | 1201.7 | 141.8 |
| Thong Pha Phum | 26.8 | 3.3 | 0.0 | -2.9 | 2144.6 | 381.1 |
| Kanchanaburi | 27.6 | 2.9 | 0.0 | -6.2 | 1146.4 | 91.1 |
| Bangkok Airport | 29.4 | 3.6 | 49.9 | 42.4 | 1653.3 | 421.4 |
| Bangkok Metropolis | 29.0 | 3.1 | 8.1 | 3.1 | 1728.3 | 185.1 |
| Over the area | 27.9 | 3.0 | 10.5 | 5.1 94% | 1406.7 | 164.1 13% |

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 | 2.9 | 0.0 | -6.9 | 1910.8 | 32.5 |
| Kabin Buri | 27.1 | 1.6 | 47.3 | 42.0 | 1779.7 | 128.1 |
| Aranyaprathet | 28.1 | 3.3 | 0.2 | -3.6 | 1372.5 | -4.1 |
| Chon Buri | 29.2 | 3.3 | 0.0 | -4.7 | 1358.7 | 59.9 |
| Ko Sichang | 28.2 | 2.2 | 2.6 | -4.9 | 1390.7 | 136.5 |
| Pattaya | 27.9 | 2.3 | 10.5 | 4.1 | 1291.9 | 168.1 |
| Sattahip | 27.5 | 2.0 | 3.7 | -4.9 | 1623.3 | 337.3 |
| Rayong | 27.7 | 1.9 | 0.0 | -4.6 | 1572.8 | 171.5 |
| Chanthaburi | 28.1 | 2.6 | 0.0 | -8.2 | 2624.9 | -227.2 |
| Khlong Yai | 28.0 | 1.3 | 53.9 | 33.7 | 5497.9 | 760.8 |
| Over the area | 28.1 | 2.4 | 11.8 | 4.2 55% | 2042.3 | 156.2 8% |

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Monthly Current Report
Rainfall and Accumulative Rainfall
December 2012

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 | 27.8 | 2.7 | 0.0 | -11.1 | 1062.8 | 75.4 |
| Hua Hin | 28.0 | 2.6 | 3.5 | -8.9 | 800.3 | -165.4 |
| Prachuap Khiri Khan | 27.2 | 2.1 | 22.3 | 0.1 | 1175.8 | 63.2 |
| Chumphon | 26.8 | 1.7 | 224.8 | 126.1 | 2084.1 | 207.8 |
| Surat Thani | 26.5 | 1.0 | 108.6 | -26.2 | 1559.0 | 39.2 |
| Ko Samui | 27.6 | 1.2 | 227.7 | 17.0 | 1741.5 | -204.4 |
| Nakhon Si Thammarat | 26.7 | 1.1 | 456.9 | 41.1 | 2771.5 | 375.4 |
| Songkhla | 27.2 | 0.5 | 504.2 | 83.9 | 2686.9 | 692.0 |
| Hat Yai Airport | 26.3 | 0.9 | 326.3 | 56.9 | 1434.2 | -250.4 |
| Pattani Airport | 26.5 | 0.8 | 387.0 | 22.9 | 1735.9 | -107.5 |
| Narathiwat | 26.0 | 0.1 | 1179.1 | 619.5 | 3026.9 | 541.7 |
| Over the area | 27.0 | 1.4 | 312.8 | 83.8 37% | 1825.4 | 115.2 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 | 26.9 | 0.9 | 91.3 | 55.7 | 5570.6 | 1451.3 |
| Takua Pa | 27.2 | 1.0 | 29.8 | -26.1 | 4564.3 | 925.7 |
| Phuket | 28.7 | 1.3 | 92.2 | 32.8 | 2788.3 | 517.1 |
| Phuket Airport | 27.5 | 1.1 | 106.3 | 40.4 | 3176.3 | 679.5 |
| Ko Lanta | 27.6 | 0.8 | 81.3 | 32.9 | 2199.8 | 16.3 |
| Trang Airport | 26.8 | 0.8 | 187.5 | 77.1 | 2579.1 | 382.8 |
| Satun | 27.7 | 0.9 | 189.4 | 107.7 | 2595.7 | 316.0 |
| Over the area | 27.5 | 1.0 | 111.1 | 45.8 70% | 3353.4 | 612.7 22% |

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