

## Monthly Weather Summary in Thailand

September 2010

Monsoon trough lay across upper Thailand almost the month accompanied with the moderate to rather active southwest monsoon blowing across the Andaman Sea, Thailand and the Gulf of Thailand. The monsoon trough strengthened while lying across upper Thailand to tropical storm "LIONROCK (1006)" in the upper South China Sea during 1-2 September. It made landfall over the coast of southern China on September 2 then downgraded on the following day. The easterly wave occasionally moved to the central, eastern and southern parts. During late September, easterly wind prevailed over the Andaman Sea, Thailand and the Gulf of Thailand and the moderate high pressure area from China extended its ridge to cover the northern and upper northeastern parts. These conditions caused occasionally abundant rainfall in upper Thailand with heavy rainfall in many areas and very heavy rainfall that caused flash flooding in some areas while the rainfall was quite evenly distributed over the southern part. However monthly rainfall was below normal in most parts of Thailand especially in southern part (west coast) where rainfall was 44 percent below normal. September rainfall more than normal in northern part 14.0 mm (7%) and central part 44.5 mm (17%) while it was inversely below normal in the rest parts of Thailand i.e. northeastern part 30.6 mm (13%), eastern part 125.5 mm (38%), southern part (east coast) 3.0 mm (2%) and southern part (west coast) 193.4 mm (44%). Mean temperatures were slightly above normal in general.

**1 – 10 September:** Affected by the monsoon trough lay across the northern and northeastern parts accompanied with the moderate to rather active southwest monsoon, the upper Thailand experienced abundant rainfall mainly during early and late period with isolated heavy to very heavy rainfall. The maximum daily rainfall in upper Thailand was 127.0 mm at Amphoe Tha Uthen, Nakhon Phanom province on September 4. Floods occurred at some areas of Thailand i.e. Phitsanulok province on September 2 and 7, Nakhon Ratchasima and Pathumthani on September 3. Flash floods reported in Prachin Buri on September 3, Chiyaphum on September 3 and 5 and Mae Hong Son on September 10. The southern part had scattered to fairly widespread rain with highest amount of 81.9 mm at Amphoe Sungai Kolok, Narathiwat province on September 9. Flood was reported at Surat Thani province on September 3.

**11 – 20 September:** Under the influence of the rather active monsoon trough lay across upper Thailand and the southwest monsoon, Thailand received plentiful of rainfall almost the period that caused flash flooding in Phayao province on September 11, Chiang Rai on September 11 and 13, Chiang Mai on September 13 and 16, Phitsanulok on September 16 and also flood occurred in Nakhon Sawan and Ang Thong provinces on September 16. Thunderstorm occurred at Phra Nakhon Si Ayuthaya and Bangkok on September 13 and 17, respectively. The maximum daily rainfall of 158.8 mm was found at Bang Pla Ma in Suphan Buri province on September 16. In southern part, scattered rain was present with heavy rainfall almost the period. The maximum daily rainfall of southern part was 85.5 mm at Amphoe Kapho, Pattani province on September 20. Thunderstorm occurred at Pattalung province on September 12 and Phetchaburi province on September 14.

**21 – 30 September:** The monsoon trough lay across the northern and upper northeastern parts and shifted southward to lie across the southern part of Thailand to the active low pressure cell in the South China Sea on the last day. The moderate high pressure area from China covered northern and upper northeastern parts of Thailand during the second half of the period. In addition, the easterly wind prevailed over the Andaman Sea, Thailand and the Gulf of Thailand during mid period with the passage of the easterly wave to cover the central, eastern and southern parts, Thailand obtained scattered to fairly widespread rain almost the period. The maximum daily rainfall in upper Thailand was 112.6 mm at Phu Kradung Nation Park in Loei province on September 23. Flash floods were reported at Phichit province on September 22, Lampang on September 22 and 27, Chiang Mai on September 29 and flood occurred at Nakhon Ratchasima on September 22. Southern part had its highest amount of 109.6 mm at Kho Hong Agromet Station in Songkhla province on September 27. Thunderstorm occurred at Prachuap Khiri Khan, flood and land slide at Satun on September 22.

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**Note :** Rainfall, temperatures and natural disasters in this report were updated up to October 4, 2010.

Climatological Center  
Meteorological Development Bureau  
Meteorological Department

Monthly Current Report  
Rainfall and Accumulative Rainfall  
September 2010

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	26.7	0.8	498.2	227.0	1673.2	176.8
Mae Hong Son	27.5	0.8	168.1	-36.6	1109.6	-6.3
Phayao	26.8	0.4	143.0	-50.5	904.1	-23.3
Chiang Mai	27.5	0.9	196.2	-6.2	980.3	32.4
Tha Wang Pha	27.5	0.7	394.2	211.2	1627.3	347.3
Nan	27.8	0.8	261.4	64.9	1382.3	250.8
Lamphun	27.3	0.4	243.9	52.6	1134.3	337.7
Lampang	27.7	0.9	122.6	-87.7	799.0	-112.7
Mae Sariang	27.1	0.5	284.3	107.4	955.8	-47.4
Phrae	27.7	0.7	182.6	-2.8	908.9	-53.9
Uttaradit	28.4	0.5	239.6	-23.9	1047.8	-212.1
Bhumibol Dam	27.4	-0.1	127.0	-91.6	749.7	-23.8
Tak	28.0	0.6	179.4	-29.5	848.5	64.6
Mae Sot	26.8	0.8	182.9	23.0	1041.5	-226.1
Umphang	25.1	0.8	225.6	-22.4	1269.7	31.2
Phitsanulok	28.3	0.2	308.7	78.1	996.8	-139.6
Lom Sak	27.6	0.5	143.4	-44.8	718.4	-227.6
Phetchabun	27.7	0.6	124.8	-76.0	929.9	-45.2
Wichian Buri	28.1	0.3	295.8	51.5	1349.4	284.7
Kamphaeng Phet	27.8	0.1	204.1	-64.4	1212.8	178.7
Over the area	27.4	0.5	226.3	14.0 7%	1082.0	29.5 3%

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	27.9	0.6	207.1	-28.3	1545.6	105.0
Loei	26.6	0.3	260.6	40.7	1326.6	228.5
Udon Thani	27.9	0.4	131.4	-92.9	1412.9	115.6
Nakhon Phanom	27.8	0.8	181.3	-95.2	1753.4	-407.1
Sakon Nakhon	27.7	0.5	250.8	39.5	1359.7	-154.3
Mukdahan	27.9	0.6	150.4	-85.1	1559.2	158.8
Khon Kaen	27.6	0.5	183.7	-52.4	1117.6	37.1
Kosum Phisai	28.4	0.8	215.0	-12.5	901.9	-186.5
Roi Et	27.9	0.5	125.2	-124.4	992.2	-241.4
Chaiyaphum	27.8	0.6	270.6	41.3	1226.0	261.8
Ubon Ratchathani	27.8	0.6	345.1	55.4	1473.1	23.7
Tha Tum	28.1	0.5	214.3	-62.0	1169.7	-73.0
Surin	27.8	0.6	187.1	-72.1	1142.1	-47.4
Nakhon Ratchasima	27.5	0.3	364.0	137.4	1098.6	235.1
Chok Chai	27.6	0.5	172.4	-58.7	1075.7	173.7
Nang Rong	27.3	0.1	121.9	-119.5	837.0	-178.3
Over the area	27.7	0.5	211.3	-30.6 -13%	1249.5	3.1 0%

- 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 maximum and daily minimum
  - 3) "T" is trace, rainfall amount less than 0.1 mm.
  - 4) "blank" is incomplete data.

Monthly Current Report  
Rainfall and Accumulative Rainfal  
September 2010

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	28.1	0.2	234.7	16.5	968.9	59.5
Bua Chum	28.1	0.6	236.7	-26.4	936.1	-10.1
Lop Buri	28.4	0.6	369.9	106.2	994.2	60.8
Suphan Buri	28.9	0.8	256.7	2.8	688.8	-110.3
Thong Pha Phum	27.3	0.7	344.3	101.8	1280.6	-278.8
Kanchanaburi	28.7	0.8	234.2	6.4	775.9	-1.2
Bangkok Airport	28.3	0.2	358.1	84.7	1607.9	598.1
Bangkok Metropolis	28.9	0.9	409.5	64.2	1714.1	490.8
Over the area	28.3	0.6	305.5	44.5 17%	1120.8	101.1 10%

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	251.0	-104.7	1896.5	224.1
Kabin Buri	28.0	0.4	94.9	-208.3	852.2	-612.3
Aranyaprathet	28.3	1.0	195.8	-62.4	1046.9	-108.3
Chon Buri	28.8	0.9	247.1	-34.6	1072.3	46.4
Ko Sichang	28.4	0.5	166.0	-123.4	997.4	49.5
Pattaya	28.0	0.4	128.2	-86.5	809.9	17.0
Sattahip	28.3	0.5	276.1	44.7	1229.8	313.3
Rayong	28.5	0.5	162.2	-100.9	1518.9	392.6
Chanthaburi	28.1	1.2	225.9	-274.2	2446.9	-64.0
Khlong Yai	27.7	0.8	329.8	-304.8	3042.2	-1232.3
Over the area	28.3	0.7	207.7	-125.5 -38%	1491.3	-97.5 -6%

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Monthly Current Report  
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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	28.9	0.8	117.3	-39.4	654.8	73.9
Hua Hin	28.5	0.7	134.3	12.6	532.6	-42.5
Prachuap Khiri Khar	28.3	0.8	131.7	43.3	549.6	-109.6
Chumphon	27.8	1.0	139.0	-29.0	879.7	-312.9
Surat Thani	27.3	0.8	162.9	24.9	823.1	-15.5
Ko Samui	28.3	0.6	122.8	5.8	805.6	-135.7
Nakhon Si Thammarat	27.5	0.4	109.2	-50.9	952.7	-80.8
Songkhla	27.8	-0.2	307.6	177.6	920.0	164.9
Hat Yai Airport	26.8	0.1	120.5	-38.9	835.6	-50.1
Pattani Airport	27.6	0.6	104.8	-46.5	605.4	-237.1
Narathiwat	27.5	0.3	96.1	-92.8	841.3	-216.6
Over the area	27.8	0.5	140.6	-3.0 -2%	763.7	-87.5 -10%

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	27.0	0.8	296.0	-365.3	2402.9	-1092.6
Takua Pa	27.2	0.6	247.5	-350.7	2332.2	-469.1
Phuket	28.5	1.2	246.7	-136.1	1578.2	-154.8
Phuket Airport	28.0	0.9	314.2	-94.7	2050.1	182.7
Ko Lanta	27.9	0.4	100.7	-250.6	1145.5	-502.6
Trang Airport	27.1	0.6	301.5	-28.7	1362.8	-234.5
Satun	27.3	0.5	221.1	-127.3	1643.3	-19.5
Over the area	27.6	0.7	246.8	-193.4 -44%	1787.9	-327.1 -15%

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