

## Monthly Weather Summary in Thailand

September 2009

Low pressure trough mostly lay across lower northern, central and northeastern parts and strengthened while moving downward to lie across central and eastern parts to active low pressure cell in coastal area of Vietnam. When this event was associated with rather active southwest monsoon prevailing over the Andaman Sea, Thailand and the Gulf of Thailand, rainfall was quite evenly distributed over Thailand. Torrential rainfall occurring in several consecutive days especially in upper Thailand caused flash floods in some areas. Decreasing rainfall occurred during mid September due to the disappearance of low pressure trough and the weakening of southwest monsoon. However, there was much rainfall during 29-30 September caused by the influence of typhoon “KETSANA (0916)” that made landfall at Da Nang in Vietnam, then downgraded to tropical storm and tropical depression, respectively while moving westward pass Laos into northeastern Thailand at Amphoe Khong Chiam, Ubon Ratchathani province on the last day of September. Monthly rainfall was more than normal in northeastern part 33.4 mm (14%) and eastern part 126.6 mm (38%), while it was inversely below normal in the rest parts of Thailand i.e. northern part 19.7 mm (9%), central part 25.0 mm (10%), southern part (east coast) 21.9 mm (15%) and southern part (west coast) 30.6 mm (7%). Mean temperatures were slightly above normal in general.

**1 – 10 September:** Thailand experienced abundant rainfall throughout the period. The maximum daily rainfall in upper Thailand was 338.9 mm at Amphoe Khlong Yai, Trat province on September 3 while southern part had its highest amount of 130.0 mm at Amphoe Bang Khan, Nakhon Si Thammarat province on September 10. Flash flood and landslide was reported at Mae Hong Son province on September 1 with flood in Lop Buri province on September 6.

**11 – 20 September:** Fairly widespread rain was found over upper Thailand with heavy rainfall in many areas and very heavy rainfall in some areas mainly during mid period. The highest amount of rainfall was 144.7 mm at UdonThani Met. Station in Udon Thani province on September 13. The continuous heavy to very heavy rainfall from the last period caused flash flood in some areas of Si Sa Ket on September 13, Chiang Mai, Lampang, Phrae, Chaiyaphum and Ubon Ratchathani provinces on September 17 ,then decreasing rainfall occurred during late period due to the disappearance of low pressure trough and the weakening of southwest monsoon. For southern part, rainfall was relatively increased from the last period particularly along the west coast where there was widespread rain with heavy to very heavy rainfall in some areas almost the period. Along the east coast of southern part, widely scattered to scattered rain was found almost the period. The maximum daily rainfall of southern part was 110.2 mm at Amphoe Ko Lanta, Krabi province on September 15.

**21 – 30 September:** The low pressure trough became apparent over lower northern, central and northeastern parts and lay towards the active low pressure cell in coastal area of middle Vietnam associated with rather active southwest monsoon prevailing over the Andaman Sea and the Gulf of Thailand during early and mid period. Typhoon “KETSANA” in the middle of South China Sea made landfall at Da Nang in Vietnam on September 29 as it moved inland, it downgraded to the tropical storm and weakened to tropical depression while moving pass Laos into northeastern part of Thailand at Amphoe Khong Chiam in Ubon Ratchathani province on September 30. It later weakened to active low pressure cell and covered lower northeastern part late at night. These produced increasing amount and distribution of rain on the last few days, especially in northeastern, central and eastern parts. The maximum daily rainfall was 170.0 mm at Construction and maintenance Center, Khet Prawet in Bangkok on September 23. Flash floods were reported at Si Sa Ket province on September 22, Chaiyaphum province on September 23, Chiang Rai province on September 26, Phetchabun, Loei and Chanthaburi provinces on September 27. Flood occurred at Si Sa Ket and Ubon Ratchathani provinces on September 29. For southern Thailand, abundant rainfall occurred during middle and late period. The maximum daily rainfall of southern part was 87.0 mm at Amphoe Takua Pa in Phang-nga province on September 25.

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**Note :** Rainfall, temperatures and natural disasters in this report was updated up to October 6, 2009.

Climate Center  
Meteorological Development Bureau  
Meteorological Department

Monthly Current Report  
Rainfall and Accumulative Rainfall  
September 2009

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	27.1	1.2	272.2	1.0	1548.0	51.6
Mae Hong Son	27.5	0.8	94.8	-109.9	765.9	-350.0
Phayao	26.9	0.5	99.7	-93.8	772.3	-155.1
Chiang Mai	28.0	1.4	191.7	-10.7	839.3	-108.6
Tha Wang Pha	27.4	0.6	141.4	-41.6	1033.5	-246.5
Nan	27.7	0.7	244.2	47.7	1006.0	-125.5
Lamphun	27.5	0.6	173.8	-17.5	670.4	-126.2
Lampang	27.7	0.9	182.8	-27.5	884.8	-26.9
Mae Sariang	27.0	0.4	192.5	15.6	1321.0	317.8
Phrae	27.8	0.8	174.0	-11.4	1078.4	115.6
Uttaradit	28.6	0.7	138.1	-125.4	1038.3	-221.6
Bhumibol Dam	28.2	0.7	240.3	21.7	1230.1	456.6
Tak	28.7	1.3	137.3	-71.6	737.7	-46.2
Mae Sot	26.6	0.6	213.9	54.0	1647.2	379.6
Umphang	25.1	0.8	207.2	-40.8	1370.2	131.7
Phitsanulok	28.6	0.5	312.4	81.8	1166.0	29.6
Lom Sak	27.6	0.5	176.2	-12.0	953.0	7.0
Phetchabun	27.7	0.6	205.1	4.3	967.5	-7.6
Wichian Buri	28.2	0.4	245.2	0.9	927.6	-137.1
Kamphaeng Phet	28.1	0.4	209.3	-59.2	1012.3	-21.8
Over the area	27.6	0.7	192.6	-19.7 -9%	1048.5	-4.0 0%

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	28.2	0.9	309.5	74.1	1796.0	355.4
Loei	27.1	0.8	246.8	26.9	1243.2	145.1
Udon Thani	28.1	0.6	371.4	147.1	1496.3	199.0
Nakhon Phanom	27.8	0.8	222.9	-53.6	2182.3	21.8
Sakon Nakhon	28.0	0.8	98.5	-112.8	1402.3	-111.7
Mukdahan	27.8	0.5	133.7	-101.8	1189.5	-210.9
Khon Kaen	27.6	0.5	216.5	-19.6	1001.8	-78.7
Kosum Phisai	28.2	0.6	266.4	38.9	1261.4	173.0
Roi Et	28.0	0.6	247.7	-1.9	1222.5	-11.1
Chaiyaphum	27.6	0.4	355.3	126.0	1331.5	367.3
Ubon Ratchathani	27.5	0.3	397.0	107.3	1937.1	487.7
Tha Tum	28.0	0.4	385.1	108.8	1396.5	153.8
Surin	27.4	0.2	355.7	96.5	1423.6	234.1
Nakhon Ratchasima	27.8	0.6	208.2	-18.4	1102.3	238.8
Chok Chai	27.5	0.4	267.4	36.3	871.0	-31.0
Nang Rong	27.2	0.0	322.0	80.6	1125.6	110.3
Over the area	27.7	0.5	275.3	33.4 14%	1373.9	127.5 10%

- 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 2009

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	28.6	0.7	296.7	78.5	1204.8	295.4
Bua Chum	27.9	0.4	191.8	-71.3	799.8	-146.4
Lop Buri	28.5	0.7	236.1	-27.6	1021.7	88.3
Suphan Buri	29.3	1.2	76.5	-177.4	417.7	-381.4
Thong Pha Phum	27.1	0.5	224.8	-17.7	1811.7	252.3
Kanchanaburi	28.7	0.8	197.9	-29.9	1133.6	356.5
Bangkok Airport	28.7	0.6	312.3	38.9	1707.9	698.1
Bangkok Metropolis	28.8	0.8	351.8	6.5	1954.0	730.7
Over the area	28.5	0.8	236.0	-25.0 -10%	1256.4	236.7 23%

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	28.4	0.4	446.7	91.0	1562.7	-109.7
Kabin Buri	27.7	0.1	227.3	-75.9	1241.7	-222.8
Aranyaprathet	27.9	0.6	172.9	-85.3	1105.0	-50.2
Chon Buri	29.0	1.1	429.0	147.3	1336.1	310.2
Ko Sichang	28.7	0.8	195.7	-93.7	870.2	-77.7
Pattaya	28.5	0.9	125.4	-89.3	742.3	-50.6
Sattahip	28.6	0.8	133.2	-98.2	951.5	35.0
Rayong	28.3	0.3	257.1	-6.0	1275.0	148.7
Chanthaburi	27.3	0.4	689.4	189.3	2790.9	280.0
Khlong Yai	26.8	-0.1	1920.8	1286.2	5572.4	1297.9
Over the area	28.1	0.5	459.8	126.6 38%	1744.8	156.0 10%

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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	29.0	0.9	75.3	-81.4	599.2	18.3
Hua Hin	28.6	0.8	198.5	76.8	638.2	63.1
Prachuap Khiri Khar	28.0	0.5	95.0	6.6	668.5	9.3
Chumphon	27.0	0.2	229.5	61.5	1210.8	18.2
Surat Thani	27.2	0.7	102.0	-36.0	993.4	154.8
Ko Samui	28.4	0.7	91.0	-26.0	798.3	-143.0
Nakhon Si Thammarat	27.9	0.8	172.1	12.0	1345.5	312.0
Songkhla	28.5	0.5	62.7	-67.3	927.7	172.6
Hat Yai Airport	27.2	0.5	69.9	-89.5	781.8	-103.9
Pattani Airport	27.7	0.7	116.8	-34.5	868.9	26.4
Narathiwat	27.6	0.4	126.3	-62.6	1661.5	603.6
Over the area	27.9	0.6	121.7	-21.9 -15%	954.0	102.8 12%

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	26.8	0.6	641.3	-20.0	3955.6	460.1
Takua Pa	26.7	0.1	617.2	19.0	3225.9	424.6
Phuket	28.0	0.7	356.6	-26.2	1911.2	178.2
Phuket Airport	27.9	0.8	336.9	-72.0	2168.2	300.8
Ko Lanta	28.2	0.7	282.1	-69.2	1402.1	-246.0
Trang Airport	27.2	0.7	328.1	-2.1	1455.9	-141.4
Satun	27.5	0.7	305.2	-43.2	1831.6	168.8
Over the area	27.5	0.6	409.6	-30.6 -7%	2278.6	163.6 8%

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