

Monthly Weather Summary in Thailand September 2016

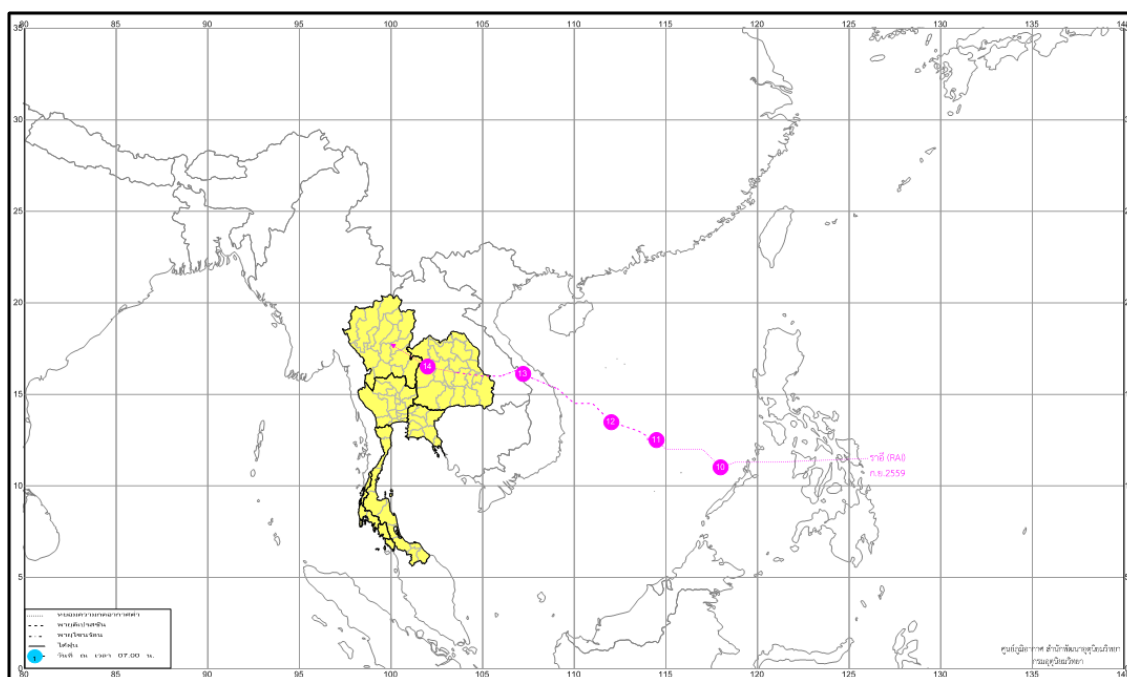
September 2016 was dominated by the monsoon trough which lay across upper Thailand almost the whole month coupled with the prevailing of moderate to rather active southwest monsoon over the Andaman Sea, southern part and the Gulf of Thailand throughout the month. Besides, the first tropical storm entering Thailand this year namely “RAI (1615)” around the adjacent area of Ubon Ratchathani and Amnat Charoen provinces as the tropical depression in the evening of September 13. It later moved pass Yasothorn, Roi Et and Kalasin provinces before downgraded into the active low pressure cell covering the middle northeastern and lower northern parts on the following day. These conditions caused plentiful of rain in Thailand almost the whole month and resulting in higher than monthly normal rainfall in almost parts i.e. northern part 12.8 mm (6%), northeastern part 46.4 mm (19%), central part 12.0 mm (5%), eastern part 53.1 mm (16%) and southern part (west coast) 116.7 mm (28%) except for below normal in southern part (east coast) 56.0 mm (37%). The average rainfall over the whole area of Thailand was 10 percent higher than normal. However, the month was warmer than usual with about 0.5 °C higher monthly mean temperature in all regions.

1 – 10 September: The monsoon trough lay across Myanmar, Laos and Vietnam during early and mid-period and moved southwards to lie over the northern and upper northeastern parts toward the low pressure cell in upper Vietnam during late period accompanied with the rather active southwest monsoon blew across the Andaman Sea, southern part and the Gulf of Thailand during mid-period. These resulted in scattered rain with heavy to very heavy rainfall in some areas over upper Thailand except for fairly widespread rain with heavy to very heavy rainfall in some areas during September 6-8 mainly in the northern, northeastern as well as Bangkok Metropolis and vicinity. The highest daily rainfall was 139.2 millimeter at Chiang Rai agrometeorological station on September 6 with flash flooding at Chiang Rai and Phayao provinces on September 7. In southern Thailand, scattered to fairly widespread rain was observed nearly the whole period with heavy rainfall in some areas along the east coast while fairly widespread to widespread rain was found along the west coast with heavy rainfall in many areas and very heavy rainfall in some areas mainly during mid-period. The maximum daily rainfall of 178.6 millimeter was measured at Takua Pa in Phang-nga province on September 5 with flash flooding at Phang-nga province on September 6.

11 – 20 September: The rather active southwest monsoon prevailed over the Andaman Sea, Thailand and the Gulf of Thailand nearly the whole period coupled with the active low pressure cell in the middle South China Sea was intensified into the tropical depression on September 11 and later intensified into tropical storm “RAI (1615)” during early morning of September 13 before making landfall in the lower coastal area of Danang, Vietnam on September 13. It moved across Laos and downgraded into tropical depression before entering Thailand at the adjacent area of Ubon Ratchathani and Amnat Chareon provinces in the evening of the same day. It moved pass Yasothorn, Roi Et and Kalasin provinces and downgraded into active low pressure cell among the adjacent areas of Roi Et, Kalasin and Mahasarakham provinces before covering middle northeastern and lower northern parts on the following day. Besides, the monsoon trough lay across upper Thailand during the second half of the period. It lay over the northern and upper northeastern parts during September 16-17 after that it moved southwards to lie over lower northern, central and lower northeastern parts. These conditions brought abundant rainfall in upper Thailand almost the whole period especially during early and late period that received heavy to very heavy rainfall in several areas. The heaviest daily rainfall was 248.0 millimeter at Phu Kradung National Park in Loei province on September 11. Flood occurred at Loei province on September 13 with flash flooding at Mae Hong Son, Chiang Mai, Phayao and Phrae provinces on September 18 and at Tak province on September 19 and also at Rayong provinces on

September 20 with water overflow it banks occurred at Sukhothai province on September 15. For southern Thailand, scattered to fairly widespread rain was observed along the east coast while fairly widespread to widespread rain with heavy to very heavy rainfall in some places occurred along the west coast. The highest daily rainfall was 92.8 mm at Amphoe Mueang in Ranong province on September 20.

21 – 30 September: Under the influence of the monsoon trough lying across lower central, eastern and lower northeastern parts almost the whole period in addition with the moderate to rather active southwest monsoon prevailing over the Andaman Sea, southern part and the Gulf of Thailand resulted in fairly widespread to widespread rain in upper Thailand during early and mid-period with heavy to very heavy rainfall in some areas after that rainfall relatively decreased to isolated to scattered rain with heavy to very heavy rainfall in some areas. The maximum daily rainfall was 134.7 millimeter at Wat Khemapitaram School in Nonthaburi province on September 24 with the report of flash flooding at Phetchabun, Kamphaeng Phet, and Chaiyaphum provinces on September 21 and at Kamphaeng Phet, Si Sa Ket, Chaiyaphum, Kanchanaburi, Lop Buri and Nakhon Sawan provinces on September 22 and at Chiang Rai, Uttaradit, Phichit, Nakhon Sawan, Lop Buri and Chonburi provinces on November 23 and at Tak and Nakhon Ratchasima provinces on November 26. In southern part, widespread rain with heavy to very heavy rainfall in some areas was observed along the west coast while plentiful of rain occurred during early period along the east coast after that rainfall relatively decreased. The heaviest daily rainfall was 120.1 millimeter at Takua Pa in Phang-nga province on September 21 with the report of water overflow bank at Surat Thani province on September 26.



Tropical storm “RAI(1615)” tracks in September 2016

- Note :**
- 1) Rainfall, temperatures and natural disasters in this report were updated up to October 5, 2016.
 - 2) “RAI” mean stone money of Yap contributed by Micronesia.

Monthly Current Report
Rainfall and Accumulative Rainfall
September 2016

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	0.9	277.3	-6.6	1654.7	162.3
Mae Hong Son	27.2	0.2	119.4	-79.6	941.7	-180.9
Phayao	27.0	0.7	213.6	10.0	771.0	-195.2
Chiang Mai	27.6	0.9	213.1	1.7	926.3	-16.9
Tha Wang Pha	27.8	1.0	210.4	-1.1	1569.1	283.0
Nan	27.8	0.6	201.6	-1.9	1352.0	214.9
Lamphun	27.5	0.6	268.7	60.5	1146.2	304.0
Lampang	27.6	0.6	153.1	-58.5	903.1	-7.6
Mae Sariang	27.0	0.5	159.0	-18.1	774.2	-216.7
Phrae	27.8	0.6	201.3	9.6	1146.5	153.9
Uttaradit	28.5	0.5	327.9	79.6	1073.8	-155.1
Bhumibol Dam	27.7	0.2	268.2	60.6	761.9	-25.2
Tak	28.1	0.4	209.9	-5.6	719.4	-82.8
Mae Sot	26.6	0.4	187.1	1.7	1046.8	-289.1
Umphang	25.1	0.7	232.0	-15.6	1120.4	-154.8
Phitsanulok	28.1	0.0	278.0	31.4	1135.9	25.9
Lom Sak	27.6	0.5	234.0	40.4	1006.6	70.4
Phetchabun	27.8	0.7	290.5	84.8	963.3	-60.3
Wichian Buri	28.0	0.1	348.7	102.6	935.4	-129.0
Kamphaeng Phet	27.9	0.3	228.1	-40.7	969.7	-94.5
Over the area	27.5	0.5	231.1	12.8 6%	1045.9	-19.8 -2%

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	28.1	0.7	256.1	-1.1	1739.9	242.1
Loei	27.2	0.8	162.3	-72.7	1143.2	54.3
Udon Thani	28.0	0.4	179.1	-60.4	1289.2	-25.9
Nakhon Phanom	27.7	0.6	322.0	31.8	2281.1	45.8
Sakon Nakhon	27.7	0.5	280.2	55.4	1276.6	-274.0
Mukdahan	27.9	0.7	329.2	117.5	1223.3	-140.2
Khon Kaen	27.4	0.2	265.8	33.8	1069.7	-39.4
Kosum Phisai	28.0	0.3	376.7	136.1	1577.3	446.2
Roi Et	28.1	0.6	385.2	165.4	1360.8	143.4
Chaiyaphum	27.6	0.3	325.8	95.8	1065.1	88.0
Ubon Ratchathani	27.7	0.3	520.4	226.6	1792.7	357.7
Tha Tum	27.8	0.1	256.8	-6.2	1178.4	-61.2
Surin	27.6	0.3	254.8	-0.6	1222.0	-51.4
Nakhon Ratchasima	27.8	0.4	329.4	101.1	1066.0	167.4
Chok Chai	27.9	0.6	170.6	-41.0	808.7	-69.2
Nang Rong	27.6	0.4	199.3	-40.3	1138.9	119.5
Over the area	27.8	0.5	288.4	46.4 19%	1327.1	62.7 5%

- 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
September 2016

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	0.1	374.7	137.7	1159.5	195.2
Bua Chum	28.1	0.5	240.1	-11.6	919.7	-13.7
Lop Buri	28.6	0.6	199.8	-65.7	967.1	33.3
Suphan Buri	28.9	0.6	109.9	-113.5	756.1	28.2
Thong Pha Phum	27.1	0.4	151.5	-89.7	1139.9	-444.0
Kanchanaburi	28.7	0.7	196.6	-23.9	794.0	11.6
Bangkok Airport	28.6	0.2	526.1	241.2	1343.0	203.1
Bangkok Metropolis	28.7	0.4	356.0	21.7	1583.0	282.7
Over the area	28.4	0.5	269.3	12.0 5%	1082.8	37.1 4%

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	29.0	0.9	266.2	-83.2	1462.2	-163.5
Kabin Buri	28.0	0.3	322.1	18.8	1263.4	-145.9
Aranyaprathet	28.4	0.7	110.9	-141.4	858.4	-271.9
Chon Buri	29.1	0.8	322.6	53.7	1108.4	76.0
Ko Sichang	28.7	0.6	230.9	-38.3	793.7	-149.0
Pattaya	28.4	0.7	251.3	46.6	911.4	97.2
Sattahip	28.3	0.2	227.7	8.7	1078.3	158.1
Rayong	28.6	0.4	270.4	15.2	1041.4	-90.7
Chanthaburi	27.8	0.6	646.9	149.3	2839.9	204.6
Khlong Yai	27.1	0.2	1183.0	502.0	4903.8	530.3
Over the area	28.3	0.5	383.2	53.1 16%	1626.1	24.4 2%

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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	28.7	0.5	204.6	51.0	605.7	2.2
Hua Hin	28.6	0.6	118.0	-2.4	450.1	-149.7
Prachuap Khiri Khan	28.4	0.7	142.9	43.4	655.5	-39.0
Chumphon	27.1	0.2	92.4	-85.9	911.6	-298.3
Surat Thani	27.2	0.6	46.5	-141.9	624.2	-302.1
Ko Samui	28.6	0.7	66.6	-55.1	667.8	-265.6
Nakhon Si Thammarat	28.0	0.7	116.1	-45.5	686.2	-424.4
Songkhla	28.9	1.0	57.1	-79.8	759.6	-59.4
Hat Yai Airport	27.7	0.8	47.6	-109.7	635.2	-278.5
Pattani Airport	28.2	1.0	42.9	-104.2	666.9	-197.1
Narathiwat	28.4	1.2	97.6	-85.1	1090.3	4.5
Over the area	28.2	0.8	93.8	-56.0 -37%	704.8	-182.7 -21%

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	26.2	-0.2	863.5	217.0	3746.6	300.5
Takua Pa	26.1	-0.6	1124.6	529.1	4393.3	1556.1
Phuket	27.6	0.1	508.2	147.0	1854.6	205.0
Phuket Airport	27.7	0.4	573.4	174.3	2901.6	1055.2
Ko Lanta	28.4	0.8	285.8	-44.5	1978.5	330.0
Trang Airport	27.4	0.8	199.6	-105.5	1749.1	215.4
Satun	27.6	0.7	227.9	-100.5	1158.8	-471.3
Over the area	27.3	0.3	540.4	116.7 28%	2540.4	455.9 22%

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