

Thailand Annual Weather Summary, 2009

This year was slightly wetter than usual especially in March, April and May. The annual rainfall was 1609.8 millimeters, about 2 percent above normal. Annual temperature averaged of 27.2 °C which was 0.2 °C above normal and this year there was only one tropical cyclone making landfall in Thailand.

The beginning of 2009 was generally cool and cold especially in the northern and the northeastern parts where experienced cold weather in several places and very cold weather in some places when the surge of rather active high pressure area from China arrived. Extreme minimum temperature was 4.2 °C at Nakhon Phanom Agrometeorological station in Nakhon Phanom province on January 11. Monthly rainfalls in January and February were below normal in most of Thailand especially in upper Thailand. Mean temperatures over Thailand were 1.2 °C below normal in January and 1.0 °C above normal in February.

Hot weather started with heat low pressure cell covering upper Thailand through the period from early March to early May. Extreme maximum temperature was 42.3 °C at Muang district in Lampang province on April 25. However, mean temperatures during summer months were slightly below normal. Affected by the confluence of southeasterly and southerly winds associated with the high pressure area from China and the heat low pressure cell over upper Thailand, it brought unseasonable rain with thunderstorms, gusty winds and hails to upper Thailand over short periods.

In many areas of Thailand, the beginning of rainy season was characterized by the increasing in rainfall during the second week of May. Due to the low pressure trough and the prevailing of southwest monsoon, resulted in periodically rain across the country. Moreover, the tropical depression that weakened from the typhoon "KETSANA" moved through northeastern Thailand at Ubon Ratchathani on September 30 and caused torrential rain in Thailand with flash flood in some areas during the end of September to the early of October. Total rainfall in this season was generally above normal except for below normal rainfall in June and August. Maximum daily rainfall was 338.9 millimeters at Khlong Yai district in Trat province on September 3. Monthly mean temperatures were above normal from May to October.

In late October 2009, a major high pressure system brought cool and cold weather to most areas of upper Thailand, particularly in the early and late November. December, the weather remained cold mainly in the upper portion of northern part and northeastern part. In upper Thailand, although rainfall was scanty there was a period of rainfall increase, early November and late December especially on November 5, that was affected by the rather active northeast monsoon prevailing over southern part and the Gulf of Thailand and the active low pressure cell covering coastal Malaysia. The highest rainfall amount was 463.0 millimeters at Si Sakhon district in Narathiwat province on November 5. However rainfall at the end of the year was below normal in most of Thailand. Monthly mean temperature was above normal during October to December.

Note : 1. KETSANA is the name of the tropical cyclone in the western North Pacific Ocean, assigned by Lao PDR.

2. Rainfall amount, temperatures and natural disasters are the preliminary information.

Climatological Center
Meteorological Development Bureau
Meteorological Department

Monthly and Annual Rainfall of Thailand in 2009

PART	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
NORTH													
Rainfall amount (mm.)	0.0	1.1	45.3	70.6	186.7	186.4	170.5	195.2	192.6	138.0	2.7	1.2	1190.3
Departure from normal	- 5.9	- 10.3	+ 20.7	+ 2.3	+ 13.3	+ 34.9	- 9.3	- 30.1	- 19.7	+ 14.9	- 31.4	- 6.9	- 27.5
Departure from normal (%)	- 100	- 90	+ 84	+ 3	+ 8	+ 23	- 5	- 13	- 9	+ 12	- 92	- 85	- 2
NORTHEAST													
Rainfall amount (mm.)	0.1	8.7	81.7	107.	246.2	158.4	266.4	229.9	275.3	63.1	8.1	2.1	1447.4
Departure from normal	- 4.0	- 9.0	+ 44.0	+ 21.3	+ 63.9	- 51.5	+ 58.5	- 28.9	+ 33.4	- 48.2	- 9.8	- 1.4	+ 68.3
Departure from normal (%)	- 98	- 51	+ 117	+ 25	+ 35	- 25	+ 28	- 11	+ 14	- 43	- 55	- 40	+ 5
CENTRAL													
Rainfall amount (mm.)	0.1	4.6	68.9	128.	262.4	155.1	157.2	243.8	236.0	203.9	14.4	1.0	1475.7
Departure from normal	- 6.1	- 7.8	+ 38.3	+ 53.7	+ 102.5	+ 16.5	+ 4.7	+ 59.9	- 25.0	+ 23.2	- 22.4	- 4.4	+ 233.1
Departure from normal (%)	- 98	- 63	+ 125	+ 72	+ 64	+ 12	+ 3	+ 33	- 10	+ 13	- 61	- 82	+ 19
EAST													
Rainfall amount (mm.)	0.1	19.2	95.3	203.	265.0	180.9	346.8	173.9	459.8	219.3	20.5	13.8	1998.5
Departure from normal	- 14.6	- 9.8	+ 40.7	+ 107.	+ 53.6	- 91.3	+ 80.9	- 137.6	+ 126.6	- 9.1	- 40.8	+ 6.2	+ 112.4
Departure from normal (%)	- 99	- 34	+ 75	+ 112	+ 25	- 34	+ 30	- 44	+ 38	- 4	- 67	+ 82	+ 6
SOUTH (EAST COAST)													
Rainfall amount (mm.)	124.2	11.0	107.3	141.	151.0	72.6	128.6	96.2	121.7	136.9	391.6	99.0	1581.5
Departure from normal	+ 64.2	- 25.0	+ 56.9	+ 68.4	+ 13.5	- 36.5	+ 15.2	- 32.0	- 21.9	- 115.4	+ 13.9	- 130.0	- 128.7
Departure from normal (%)	+ 107	- 69	+ 113	+ 94	+ 10	- 34	+ 13	- 25	- 15	- 46	+ 4	- 57	- 8
SOUTH (WEST COAST)													
Rainfall amount (mm.)	16.4	6.8	225.4	250.	328.2	241.1	368.6	431.7	409.6	327.3	182.4	34.2	2822.5
Departure from normal	- 6.5	- 21.9	+ 154.9	+ 89.8	+ 13.2	- 79.1	+ 16.2	+ 27.6	- 30.6	- 30.4	- 20.3	- 31.1	+ 81.8
Departure from normal (%)	- 28	- 76	+ 220	+ 56	+ 4	- 25	+ 5	+ 7	- 7	- 9	- 10	- 48	+ 3
OVER COUNTRY													
Rainfall amount (mm.)	20.6	7.7	89.9	132.	227.5	163.9	227.7	213.2	263.2	158.2	84.6	21.3	1609.8
Departure from normal	+ 3.9	- 13.1	+ 49.2	+ 45.4	+ 40.0	- 25.8	+ 26.1	- 29.5	+ 10.5	- 25.8	- 18.9	- 24.7	+ 37.3
Departure from normal (%)	+ 23	- 63	+ 121	+ 52	+ 21	- 14	+ 13	- 12	+ 4	- 14	- 18	- 54	+ 2

Remark : Based on 1971 - 2000 normals

Climatological Center, Meteorological Development Bureau

Monthly and Annual Mean Temperature of Thailand in 2009

PART	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
NORTH													
Mean Temperature (°C)	21.0	25.6	27.3	29.1	28.4	27.5	27.4	27.7	27.6	27.2	24.8	22.9	26.4
Normal (°C)	22.2	24.4	27.5	29.5	28.6	27.8	27.3	26.9	26.9	26.2	24.2	21.7	26.1
Departure from normal (°C)	-1.2	1.2	-0.2	-0.4	-0.2	-0.3	0.1	0.8	0.7	1.0	0.6	1.2	0.3
NORTHEAST													
Mean Temperature (°C)	21.4	27.3	28.1	29.3	28.2	28.6	28.0	28.2	27.7	27.6	25.1	24.3	27.0
Normal (°C)	23.2	25.4	28.2	29.5	28.7	28.4	27.9	27.5	27.2	26.4	24.6	22.6	26.6
Departure from normal (°C)	-1.8	1.9	-0.1	-0.2	-0.5	0.2	0.1	0.7	0.5	1.2	0.5	1.7	0.4
CENTRAL													
Mean Temperature (°C)	23.9	28.5	29.3	30.1	28.9	28.8	28.3	29.0	28.4	28.1	26.8	26.3	28.0
Normal (°C)	25.7	27.5	29.4	30.4	29.6	28.8	28.4	28.0	27.7	27.4	26.3	24.9	27.8
Departure from normal (°C)	-1.8	1.0	-0.1	-0.3	-0.7	0.0	-0.1	1.0	0.7	0.7	0.5	1.4	0.2
EAST													
Mean Temperature (°C)	24.9	28.0	28.6	29.4	28.7	28.9	28.4	28.8	28.1	27.6	27.2	27.0	28.0
Normal (°C)	26.2	27.5	28.7	29.5	29.1	28.6	28.2	28.0	27.6	27.3	26.8	25.7	27.8
Departure from normal (°C)	-1.3	0.5	-0.1	-0.1	-0.4	0.3	0.2	0.8	0.5	0.3	0.4	1.3	0.2
SOUTH (EAST COAST)													
Mean Temperature (°C)	25.1	27.1	27.9	28.6	28.2	28.7	28.0	28.3	27.9	27.5	26.9	26.8	27.6
Normal (°C)	25.9	26.7	27.7	28.7	28.5	28.1	27.8	27.7	27.3	26.9	26.2	25.6	27.2
Departure from normal (°C)	-0.8	0.4	0.2	-0.1	-0.3	0.6	0.2	0.6	0.6	0.6	0.7	1.2	0.4
SOUTH (WEST COAST)													
Mean Temperature (°C)	26.8	27.9	27.8	28.2	27.9	28.7	28.0	27.9	27.5	27.2	27.3	27.7	27.7
Normal (°C)	26.9	27.7	28.4	28.5	28.0	27.8	27.4	27.3	26.9	26.7	26.6	26.5	27.4
Departure from normal (°C)	-0.1	0.2	-0.6	-0.3	-0.1	0.9	0.6	0.6	0.6	0.5	0.7	1.2	0.3
OVER COUNTRY													
Mean Temperature (°C)	23.2	27.1	28.0	29.1	28.4	28.4	27.9	28.2	27.8	27.5	26.0	25.2	27.2
Normal (°C)	24.4	26.1	28.1	29.4	28.7	28.2	27.8	27.5	27.2	26.7	25.4	23.9	27.0
Departure from normal (°C)	-1.2	1.0	-0.1	-0.3	-0.3	0.2	0.1	0.7	0.6	0.8	0.6	1.3	0.2

Remark : Based on 1971 - 2000 normals

Climatological Center, Meteorological Development Bureau