

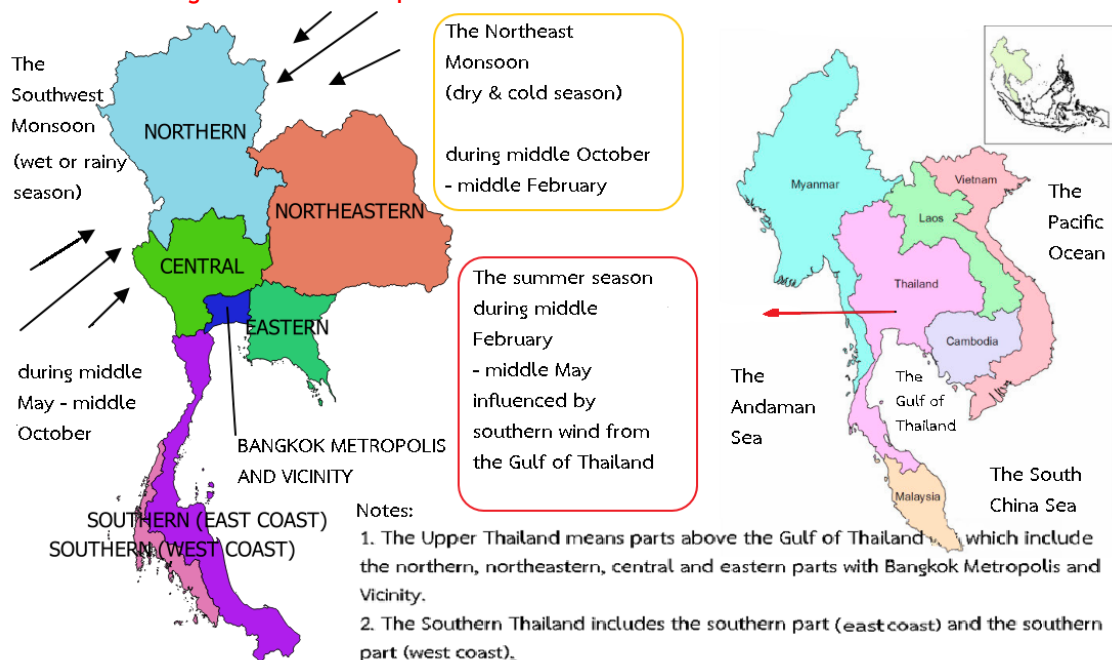


### The 2019 rainy season overview

The rainy season of Thailand this year is expected to total rain of the whole country this year will be 5-10% below normal and less than that of last year which was 3% below normal. For the start and middle of the rainy season (June until August), the total rain will mostly below normal while the end of the rainy season (September till middle October), the total rain will mostly become near normal. The rainy season is expected will finish at around middle October.

During August and September as being the most densely abundant rainfall months, they favor a high chance to meet tropical cyclones passing through the Upper Thailand. As a result, heavy to very heavy rain amount will occur at many areas. Furthermore, flash and forest flood with overflow may inundate at some areas.

### The below Image illustrates 7 parts of Thailand with seasons and Monsoons or wind:



Tropical cyclones (depressions, tropical storms and typhoons): For the rainy season of this year, 1 tropical cyclone is expected to move toward Thailand. It favors a high chance to move pass the northeastern and northern parts in August or September.

## **Seasonal Outlook**

**For early and middle June,** Thailand will meet abundant rainfall continuously. Mostly, the rainfall occurs at 40-60% of the area with heavy rain amount at some areas. Except the eastern part and the Southern Thailand (west coast), the rainfall occurs at 60-80% of the area with heavy rain amount at many areas and very heavy rain at some areas. The reason is that the rather active Southwest Monsoon will prevail over the Andaman Sea and Thailand from time to time. Moreover, monsoon trough sometimes prevails over the Upper Thailand.

**Afterward during late June till middle July,** the amount and distribution of rainfall will reduce. Thus, dry spell may occur causing water shortage for agricultural usage at many areas, specifically at repeated drought areas outside irrigation zones. The reason is that the Southwest Monsoon prevailing over the Andaman Sea and Thailand will weaken whereas the monsoon trough is about to move up to prevail over the southern portion of China.

**Then during middle July until September,** densely abundant rainfall will come back. The rainfall will be mostly 60-80% of the area along with heavy rain amount at many areas and very heavy rain amount at some areas, especially in August and September. Consequently, flash and forest flood together with overflow would feasibly appear at many areas. The reason is that the Southwest Monsoon prevailing over the Andaman Sea and Thailand comes back actively and continuously. The Monsoon will become active periodically while the monsoon trough is to prevail over the Upper Thailand occasionally.

**And in October,** the northern and northeastern parts will meet less rainfall and start to meet morning chilly weather, especially at the upper portion of these parts. Nevertheless, the central and eastern parts and the Southern Thailand will still meet densely abundant rainfall further together with heavy rain amount at many areas and very heavy rain amount at some areas. The reason is that high-pressure air mass areas from China will begin to prevail over the upper portion of both of the northern and northeastern parts. In addition, the Southwest Monsoon trough will move downward to prevail over the lower portion of the central part, the upper portion of the Southern Thailand and the eastern part. Moreover, the former prevailing Southwest Monsoon over Thailand will transform to become the prevailing Northeast Monsoon instead.

**Details for each part are as the following:**

**The Northern part:** For June, the total rain amount is to be near normal (normal: 156 mm). Then in July to August, the total rain amount will be about 5-10% below normal (normal: 176 and 223 mm). Whereas the total rain amount is to be near normal during September until October (normal: 218 and 124 mm consecutively).

**The Northeastern part:** For June and July, the total rain amount is expected to be 5-10% below normal (normal: 203 and 211 mm). Then during August to October, the total rain amount is to be near normal (normal: 226, 242 and 117 mm consecutively).

**The central part:** During June to August, the total rain amount is expected to be 10% below normal (normal: 145, 155 and 181 mm). Then in September and October, the total rain amount will be near normal (normal: 257 and 187 mm respectively).

**The eastern part:** For June and July, the total rain amount is expected to be 10% below normal (normal: 261 and 277 mm). Then in August to October, the total rain amount will be near normal (normal: 302, 330 and 225 mm respectively).

**The Southern Thailand (east coast: The Gulf of Thailand):** During June, the total rain amount is expected to near normal (normal: 113 mm). Then in July to August, the total rain amount is expected to be 10% below normal (normal: 119 and 124 mm). For September and October, the total rain amount will be near normal again (normal: 150 and 255 mm respectively).

**The Southern Thailand (west coast: The Andaman Sea):** During June and July, the total rain amount is expected to be 10% below normal (normal: 312 and 337 mm). Then from August till October, the total rain amount will be near normal (normal: 398, 423 and 366 mm consecutively).

**Bangkok Metropolis and Vicinity:** For June, the total rain amount is expected to near normal (normal: 157 mm). Then in July to August, the total rain amount is expected to be 5-10% below normal (normal: 175 and 211 mm). Afterward during September and October, the total rain amount will be near normal (normal: 334 and 292 mm respectively).

**Caution:**

*1. Sometimes, heavy to very heavy rain amounts occur continuously for many days. As a result, flash with overflow may inundate, specifically during August until September. Thus, the public should follow the daily weather forecast news closely further.*

*2. During the period of tropical cyclones moving near or pass Thailand, gusty wind and raining at extra high areas with heavy to very heavy rain amount will occur at many areas. Furthermore, gusty wind waves will appear at coastal areas; wave height may reach 3 - 4 meters at some periods. Thus, the public and mariners should be cautious of these natural hazards and follow the news attentively during the tropical cyclone periods further.*

## The 2019 rain prediction comparing with normal

Part	June	July	August	September	October
Northern	Near Normal	10% below Normal	5% below Normal	Near Normal	Near Normal
Northeastern	10% below Normal	5% below Normal	Near Normal	Near Normal	Near Normal
Central	10% below Normal	10% below Normal	10% below Normal	Near Normal	Near Normal
Eastern	10% below Normal	10% below Normal	Near Normal	Near Normal	Near Normal
Southern (The Gulf of Thailand)	Near Normal	10% below Normal	10% below Normal	Near Normal	Near Normal
Southern (The Andaman Sea)	10% below Normal	10% below Normal	Near Normal	Near Normal	Near Normal
Bangkok Metropolis and Vicinity	Near Normal	10% below Normal	5% below Normal	Near Normal	Near Normal

## Rain amount (millimeters) prediction for the 2019 rainy season

Part	June	July	August	September	October
Northern	140-180	140-180	190-230	190-230	100-140
Northeastern	170-210	180-220	240-290	220-270	100-140
Central	110-150	120-160	140-180	230-280	160-200
Eastern	210-260	230-280	280-330	300-350	200-250
Southern (The Gulf of Thailand)	100-140	90-120	90-120	130-170	230-280
Southern (The Andaman Sea)	260-310	280-330	350-450	400-500	340-390
Bangkok Metropolis and Vicinity	140-180	140-180	180-220	300-350	270-320

### Remarks:

- Normal means average during the 30-year period (A.D. 1981 – 2010 or B.E. 2524 – 2553).
- This long-range climate forecast is created by applying some climate models and statistical methods, please follow daily weather forecast for more accuracy.
- The next updated seasonal forecast may be published online before the end of June 2019.
- Further enquiry of monthly climate, 3-month climate and seasonal forecasts can be preceded at Tel: (662)-398-9929 or Fax: (662)-383-8827 and [www.tmd.go.th/en](http://www.tmd.go.th/en), climate tab.