ASEAN Food Security Information System

Flooding Caused by Heavy Rain in Thailand

Flooding in Thailand during mid-August to September 2026

During 18-21 August 2026, flooding was reported in nine provinces, including Phayao, Nan, Mae Hong Son, Sukhothai, Phitsanulok, Phetchabun, Sakon Nakhon, Nakhon Phanom, and Ubon Ratchathani. The flooding was primarily caused by continuous heavy rainfall, resulting in inundation in several areas and affecting local communities.

On 20 August 2026, flooding in Nan Province continued to cause widespread impacts after large volumes of water flowed downstream from upstream areas, resulting in further inundation and damage in affected communities.

The agency forecasted and warned that during 30 August-2 September 2026, the monsoon trough was forecast to extend across northern and upper northeastern Thailand and into an active low-pressure condition over the coast of upper Vietnam and the Gulf of Tonkin. At the same time, a relatively strong Southwest Monsoon prevailed over the Andaman Sea, Thailand, and the Gulf of Thailand. These weather conditions were expected to bring increased rainfall, including isolated heavy to very heavy rainfall, particularly in the western North, Central, upper and eastern Northeast, and Eastern regions. People in affected areas were advised to remain alert to heavy rainfall and accumulated rainfall, which could trigger flash floods, river overflows, and landslides, particularly along waterways, foothills, and low-lying areas.

The Thai Meteorological Department (TMD) warned that heavy to very heavy rainfall was forecast in 34 provinces on 1 September and 29 provinces on 2 September 2026, increasing the risk of flash floods, overflowing waterways, and landslides.

On 3 September 2026, the Department of Disaster Prevention and Mitigation (DDPM) warned 54 provinces, including Bangkok, to prepare for possible flash floods, forest runoff, landslides, and urban flooding during 4-7 September 2026. The TMD reported that some areas, particularly in northern and upper northeastern Thailand, could experience heavy to very heavy rainfall as the monsoon trough moved across these regions. A moderate Southwest Monsoon was also prevailing over the Andaman Sea, Thailand, and the Gulf of Thailand.

The National Water Resources Office (NWR) also issued a flash flood and waterlogging warning for 24 provinces for 4-8 September 2026, covering areas in the North, Northeast, and East regions.

According to the latest update, the monsoon trough was extending across northern and upper northeastern Thailand toward Tropical Storm Saudel over the upper South China Sea. A relatively strong Southwest Monsoon was also prevailing over the Andaman Sea, Thailand, and the Gulf of Thailand, contributing to increased rainfall across several regions.

Damage and losses

Impact on the affected area

Flooding remains ongoing in five provinces, including Nan, Sukhothai, Phitsanulok, Ubon Ratchathani, and Kanchanaburi. The flooding affected 11 districts, 22 sub-districts, and 90 villages. A total of 1,997 households, or approximately 6,134 people, remain affected. The flooding has resulted in three fatalities, all reported in Nan Province, including one in Pua District and two in Tha Wang Pha District. Among the affected provinces, Nan has experienced the most severe impacts, accounting for the majority of affected households, infrastructure disruptions, and flood-related fatalities.

In Nan Province, the Nan Provincial Disaster Prevention and Mitigation Office reported that intense rainfall caused rapid runoff and inundated residential areas in Pua, Phu Phiang, and Santi Suk Districts. Pua District was the hardest hit, with floodwaters affecting several sub-districts, including Ouan, Woranakhon, Sila Laeng, Chai Watthana, and Pua. The Northern Meteorological Center reported that light to moderate rainfall continued across Nan Province and surrounding areas and advised residents living near hillsides and in low-lying areas to remain vigilant for runoff and localized flooding resulting from accumulated rainfall.

Agricultural devastation

Agricultural land: Severe flash flooding in Nan Province during August 2026 caused significant impacts on agricultural land and crops. However, no official data are currently available.

Affected crops: No official data are currently available on crop damage or production.

Government responses and countermeasures

The DDPM, has coordinated with the 54 provinces, regional disaster prevention and mitigation centers, and authorities in high-risk areas to prepare for increased rainfall and heavy to very heavy rainfall that could trigger flooding. Authorities have been instructed to closely monitor weather conditions, rainfall, and water levels, while deploying response teams and disaster-relief machinery to vulnerable areas to ensure a rapid response and provide assistance to affected residents when necessary. Temporary shelters are also being prepared with sufficient capacity to accommodate people who may need to evacuate. The DDPM has urged residents to closely follow official weather updates and disaster warnings and to make necessary preparations in advance, particularly those living in vulnerable areas.

On 22 August 2026, the Thai Red Cross Society's Health Station No. 3 in Chiang Mai deployed a rapid assessment team to Nan Province to assess flood damage and identify the immediate needs of affected communities. The team also supported mobile kitchen operations of the Nan Provincial Red Cross Chapter and conducted field assessments in Mueang Nan, Wiang Sa, and Phu Phiang Districts to facilitate timely and targeted humanitarian assistance.

Red Cross volunteers, together with the Nan Provincial Red Cross Chapter and partner organizations, supported mobile kitchen operations by preparing and distributing more than 1,000 cooked meal boxes to flood-affected communities in Nan Province. The response involved volunteers from youth networks, local government agencies, and schools, providing immediate relief to affected households.

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