



REPUBLIC OF TÜRKİYE
MINISTRY OF ENVIRONMENT, URBANIZATION AND CLIMATE CHANGE
Turkish State Meteorological Service



State of the Climate in February 2025



Climate and Agricultural Meteorology Department
Research Department

REPUBLIC OF TÜRKİYE
MINISTRY OF ENVIRONMENT, URBANIZATION AND CLIMATE CHANGE
Turkish State Meteorological Service

State of the Climate in February 2025

**Climate and Agricultural Meteorology
Department**

Research Department

2025

CONTENT

1. Introduction.....	1
2. Temperature	2
3. Precipitation	4
4. Extreme Meteorological Events.....	7
References	8

1. Introduction

The mean temperature of Türkiye in February 2025 was 2.4°C. This value was 1.7°C below the 1991-2020's normal (4.1°C).

In February 2025, below seasonal normal in Muğla, İzmir, Akhisar, Burdur, Denizli, Antalya, Adana, Hatay, Başkale, Tercan, Tortum, Sarıkamış, Kızılcahamam and middle Black Sea. In February 2025, Seasonal normal in other regions of Türkiye. In February 2025, mean temperatures differences was positive in Eastern Anatolia, Muş, Bingöl and Ağrı.

The lowest temperature was observed in Horasan with -32.6 °C and the highest temperature was observed in Köyceğiz with 21.6°C. There were not new extreme maximum temperature records observed.

Türkiye's areal mean precipitation in February 2025 was 40.0 mm. This value is approximately 33% below the 1991-2020's normal (59.8 mm).

In February, regional precipitation was below normal in all regions except the Black Sea. A decrease of more than 74% compared to normal was observed in Aegean region. In February, the highest precipitation was recorded in Rize with 142.8 mm and lowest recorded with 7.5 mm precipitation in Burdur.

In February, Regional precipitation were below near normal (1991-2020) in all regions except the Black Sea Regions.

The number of rainy days in February 2025 in Türkiye was below normal with 9.7 days (1991-2020 normal is 11.0 days). The number of rainy days was between 20-25 days in the middle Black Sea shore and dropped 3 days in the South Aegean, Tekirdağ, Kırklareli, Isparta, Burdur, Antalya, Ankara, Konya, Mersin and Kars areas around.

There are 21 extreme events have been reported in January 2025 in TSMS's Kardelen Database. Percentage of extreme events recorded in January 2025 were storm-tornado (5%), snow (%28), heavy rain-flood (24%), Heat/Cold wave (%5), landslide (%5), fog (9%), hail (14%), lightning (5%),avalanche (5%)

2. Temperature

In February 2025, below seasonal normal in Muğla, İzmir, Akhisar, Burdur, Denizli, Antalya, Adana, Hatay, Başkale, Tercan, Tortum, Sarıkamış, Kızılcahamam and middle Black Sea. In February 2025, Seasonal normal in other regions of Türkiye.

The mean temperature of Türkiye in February 2025 was 2.4°C. This value was 1.7°C below the 1991-2020's normal (4.1°C).Fig.2.1)

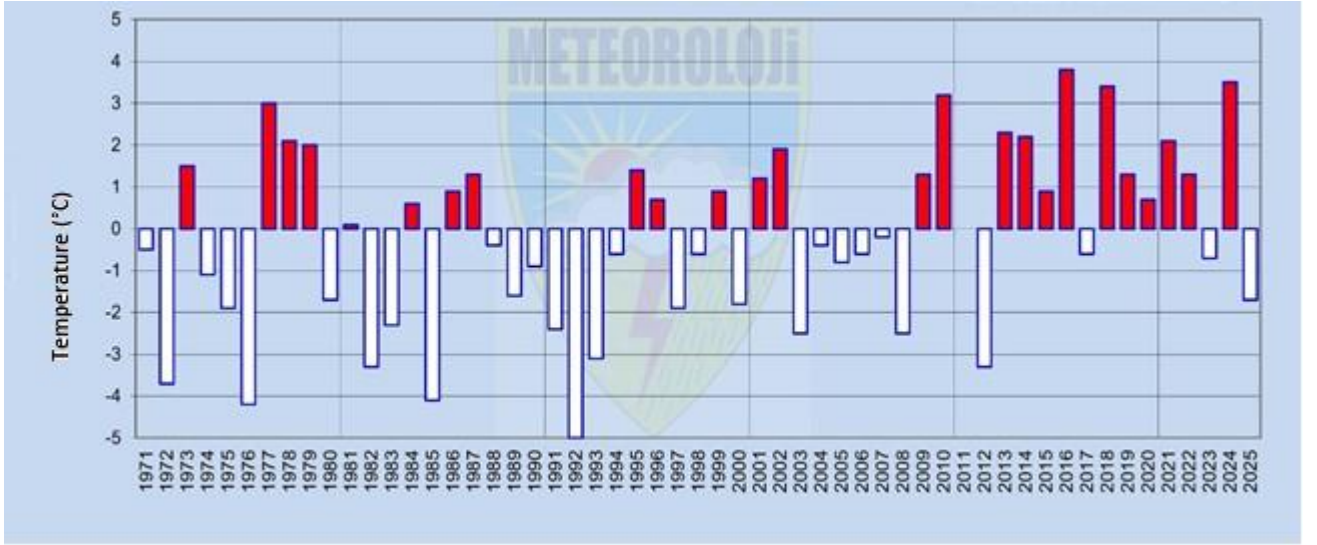


Figure 2.1 Monthly mean temperature anomalies in February (Url 1).

In February 2025, mean temperatures differences was positive in Eastern Anatolia, Muş, Bingöl and Ağrı (Fig.2.2).

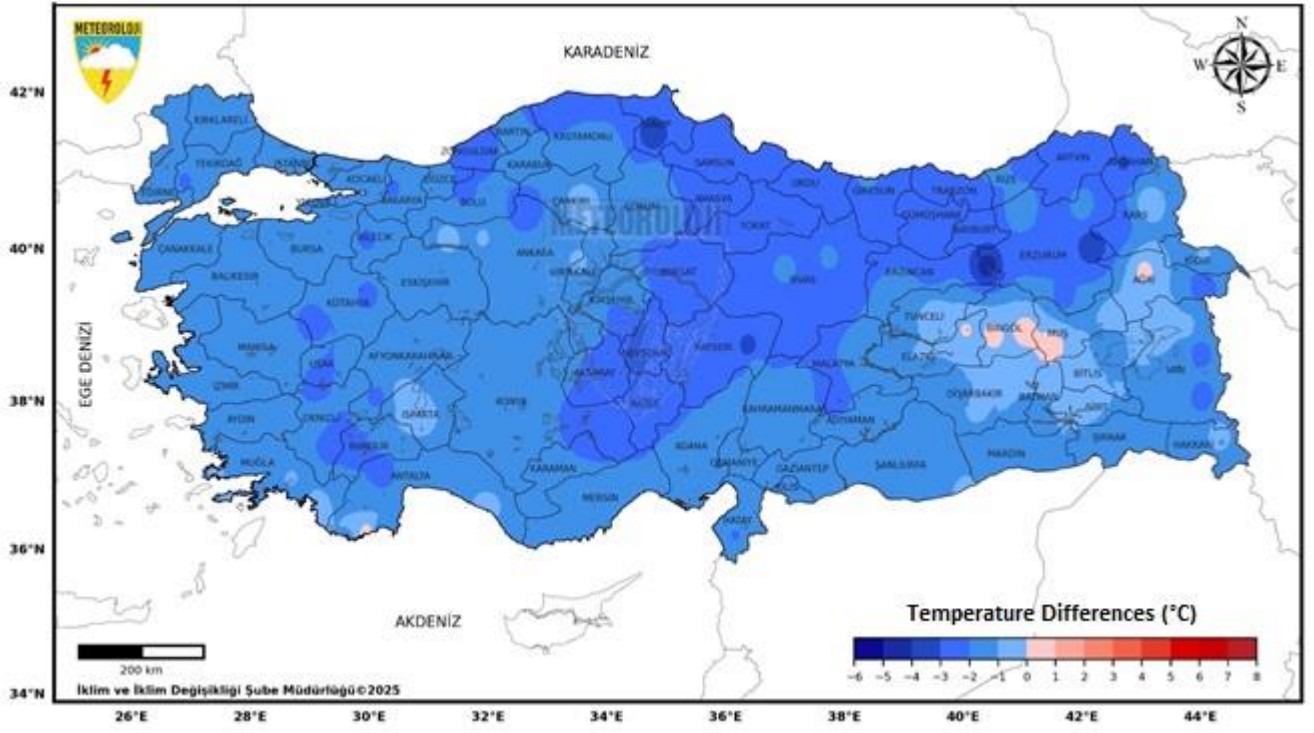


Figure 2.2. Spatial distribution of mean temperature anomaly in Türkiye in February 2025 (Url 1).



Figure 2. 3 The difference of the monthly mean temperature in 2025 from normal (1991-2020) (Url 1).

The monthly mean temperature in February was below it's seasonal normal.

2.1. Regional Temperature

Regional temperatures was below normal in all regions (Fig. 2.4).

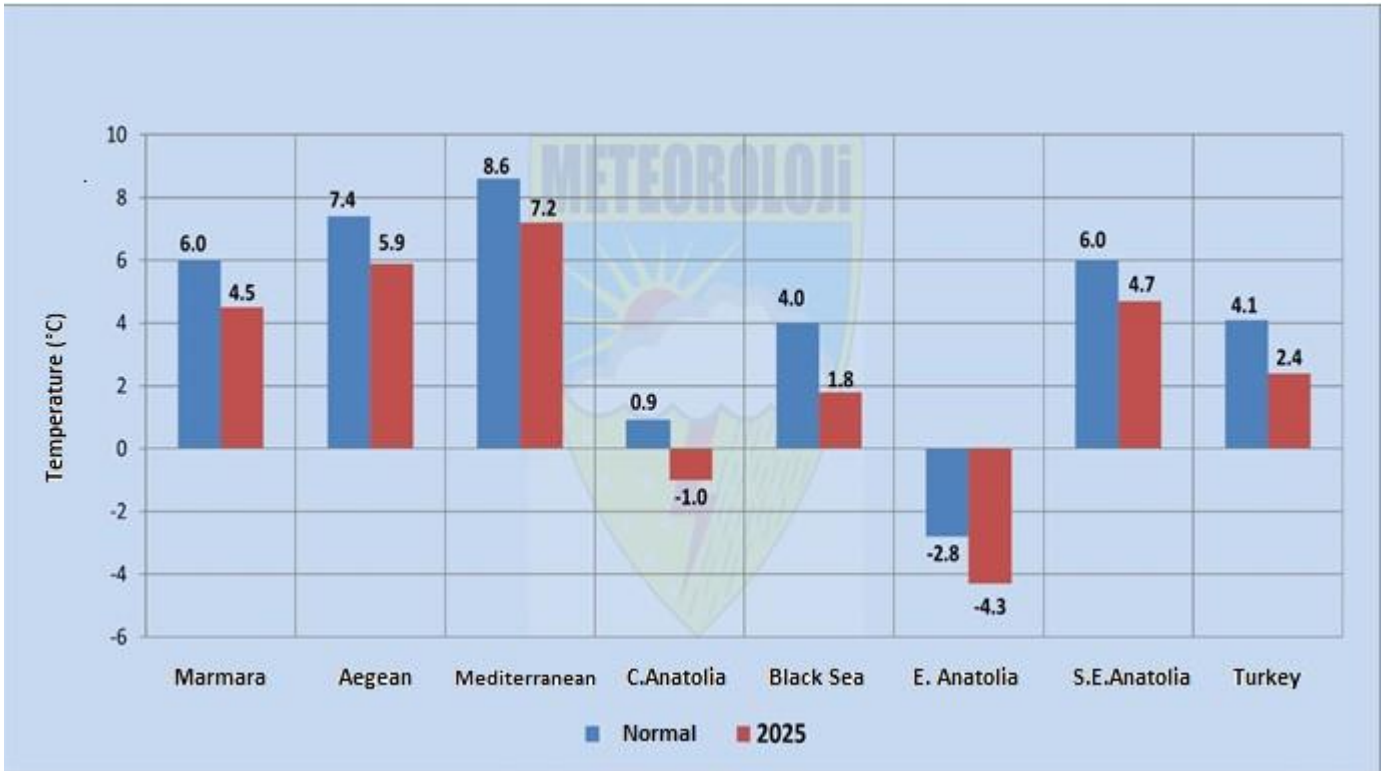


Figure 2. 4 Regional mean temperature differences in February 2025 (Url 1).

2.2. Extreme Temperature

The lowest temperature was observed in Horasan with -32.6 °C and the highest temperature was observed in Köyceğiz with 21.6°C. There were not new extreme maximum temperature records observed

3. Precipitation

Türkiye's areal mean precipitation in February 2025 was 40.0 mm. This value is approximately 33% below the 1991-2020's normal (59.8 mm) (Fig. 3.1)

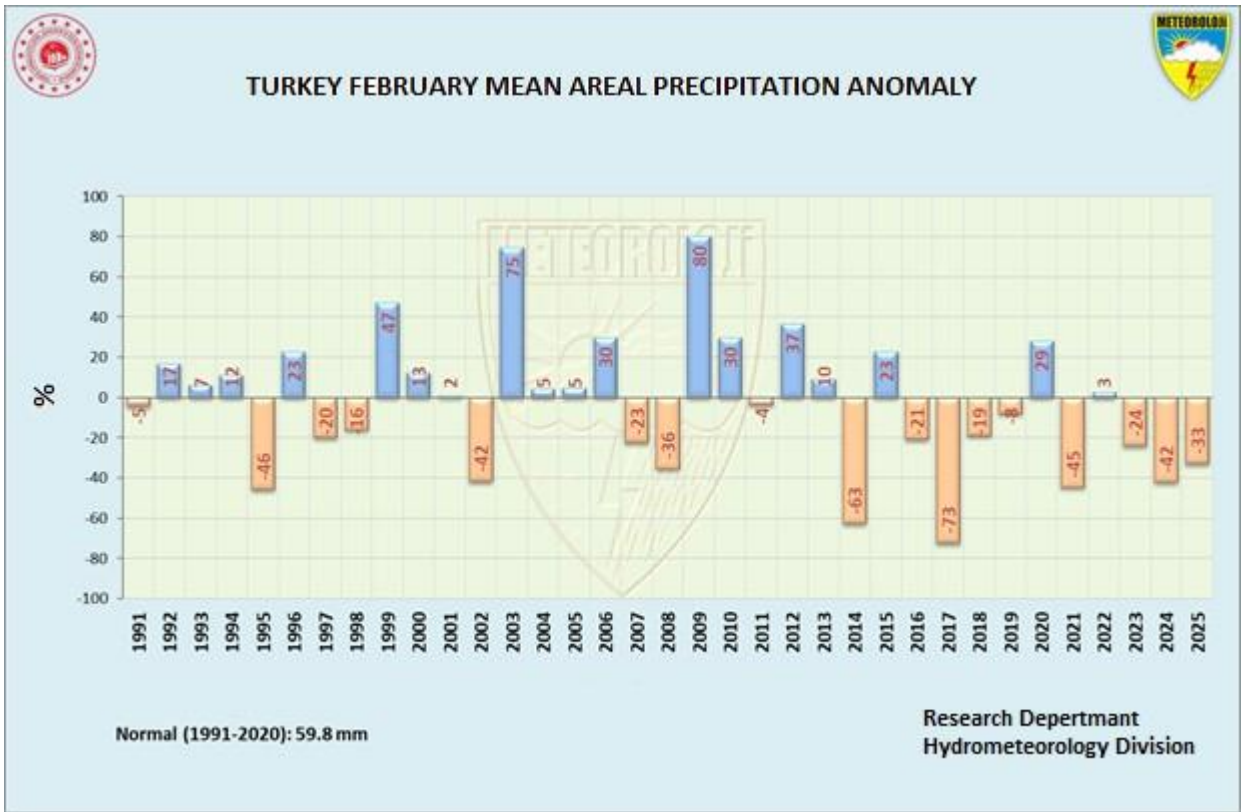


Figure 3. 1 Areal precipitation anomaly in February in Türkiye (Url 2).

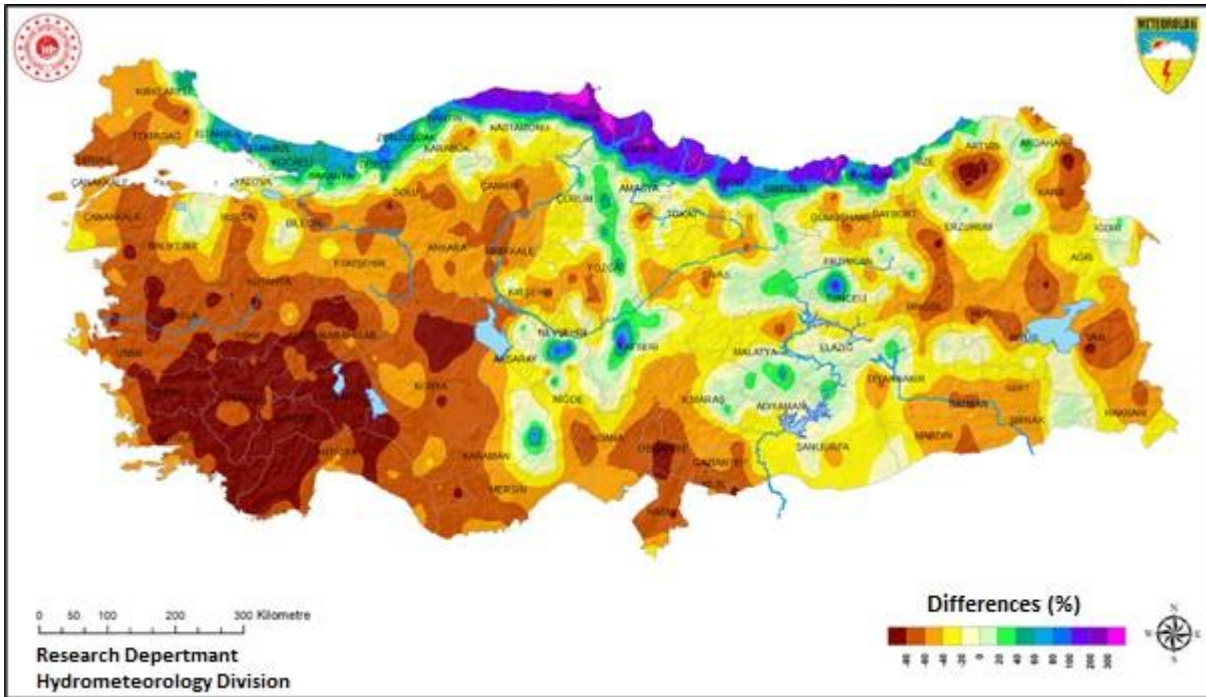


Figure 3. 2 Spatial distribution of mean precipitation anomalies in February 2025 (Url 2).

In February, regional precipitation was below normal in all regions except the Black Sea. A decrease of more than 74% compared to normal was observed in Aegean region. In February, the highest precipitation was recorded in Rize with 142.8 mm and lowest recorded with 7.5 mm precipitation in Burdur (Fig. 3.2).

3.1. Regional Precipitation

In February, Regional precipitation were below near normal (1991-2020) in all regions except the Black Sea Regions (Figure 3.3).

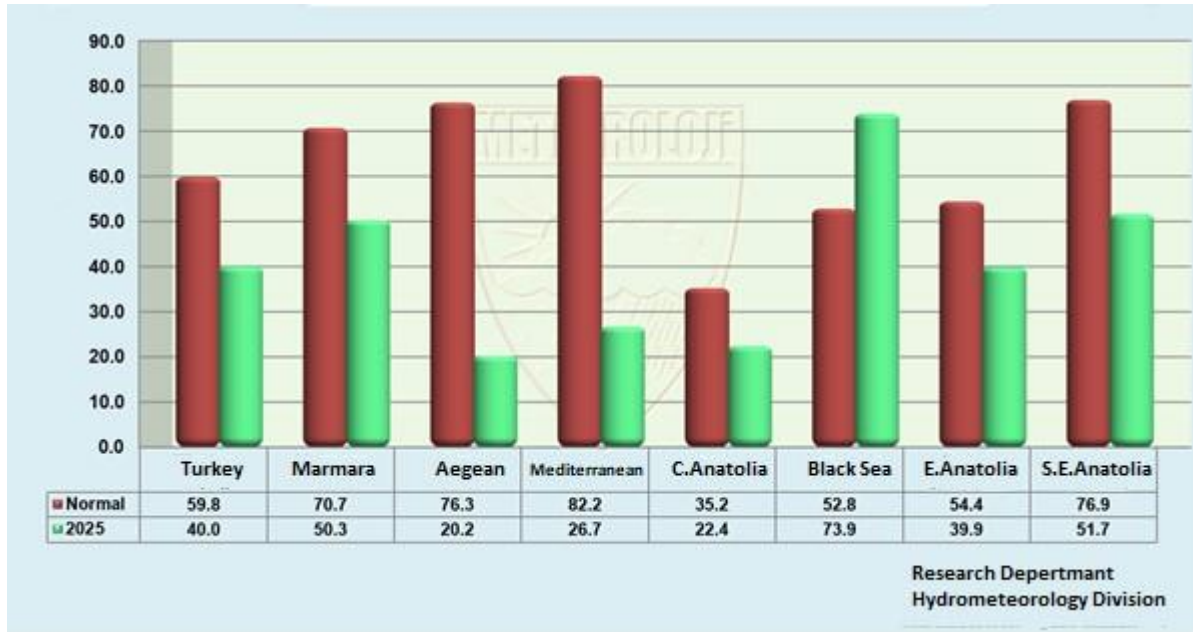


Figure 3. 3 Regional Precipitation Differences in February 2025 (Url 2).

3.2. Rainy Days

The number of rainy days in February 2025 in Türkiye was below normal with 9.7 days (1991-2020 normal is 11.0 days). The number of rainy days was between 20-25 days in the middle Black Sea shore and dropped 3 days in the South Aegean, Tekirdağ, Kırklareli, Isparta, Burdur, Antalya, Ankara, Konya, Mersin and Kars areas around. (Fig. 3.4).

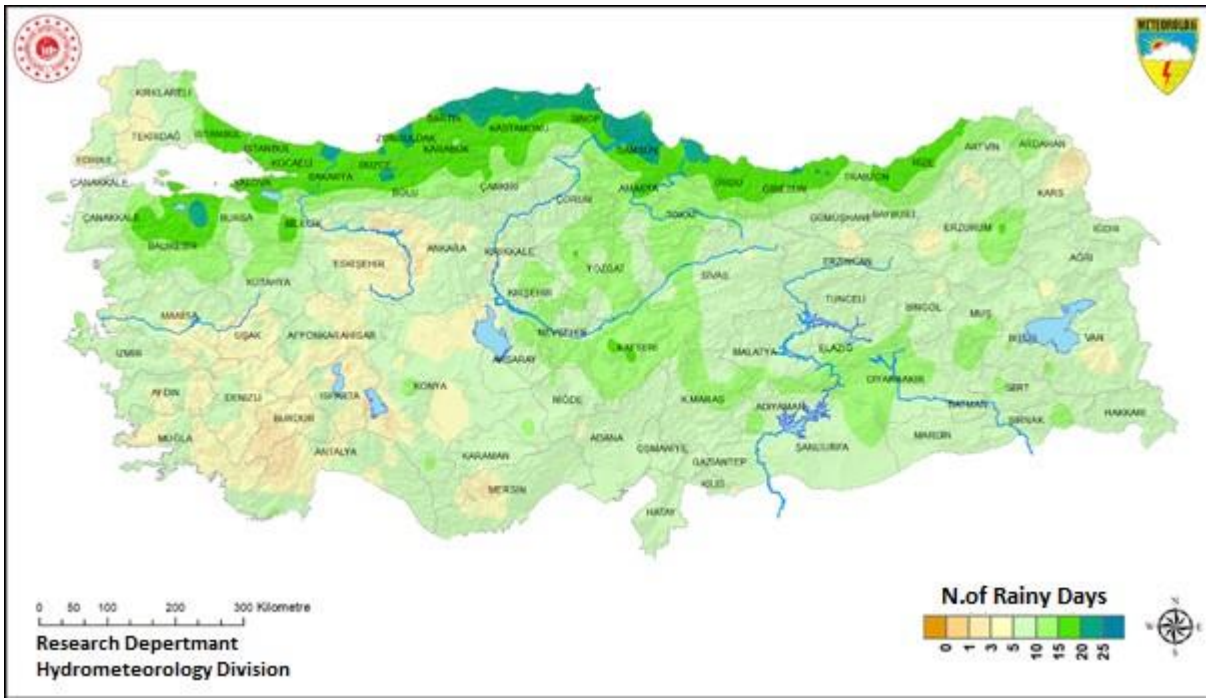


Figure 3. Number of rainy days in February 2025 (Url 2).

4. Extreme Meteorological Events

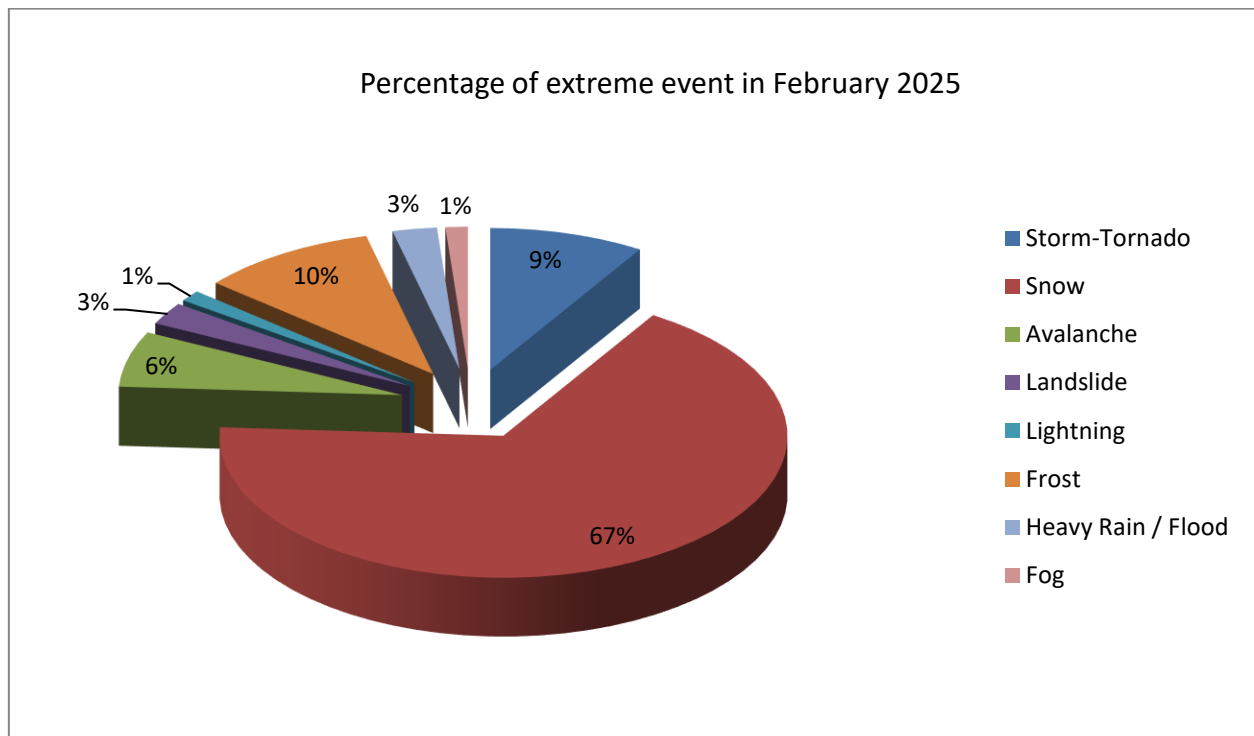


Figure 4.1. Percentage of extreme event in February 2025 (Url 3).

There are 79 extreme events have been reported in February 2025 in TSMS's Kardelen Database. Percentage of extreme events recorded in February 2025 were storm-tornado (9%), snow (%67), heavy rain-flood (3%), landslide (%3), fog (1%), frost (10%), lightning (1%),avalanche (6%) (Fig. 4.1).

References

1. URL 1, Turkish State Meteorological Service, temperature analysis
<http://www.mgm.gov.tr/veridegerlendirme/sicaklik-analizi.aspx>
2. URL 2, Turkish State Meteorological Service, precipitation analysis
<http://www.mgm.gov.tr/veridegerlendirme/yagis-raporu.aspx>
3. URL 3, Turkish State Meteorological Service, Kardelen, meteorological extreme event database
<http://kardelen.mgm.gov.tr/BultenGenel/Klima/fevkGlnYeni.aspx>



Turkish State Meteorological Service
Kütükçü Alibey Cad. No:4 06120 Kalaba/ANKARA
Tel : (+90 312) 359 75 45
Faks : (+90 312) 360 25 51
<https://mgm.gov.tr>

