



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



State of the Climate in March 2025



Climate and Agricultural Meteorology Department
Research Department

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1. Introduction

The mean temperature of Türkiye in March 2025 was 10.7°C. This value was 3.0°C above the 1991-2020's normal (7.7°C).

In March 2025, in Dalaman, Korkuteli, Gemerek, Zara, Kangal, Pınarbaşı (Kayseri), Artvin, Gümüşhane, Bayburt, İspir, Oltu, Ardahan, Erzincan, Erzurum, Ağrı, Van, Muş, Tortum, Horasan Tercan, Doğubeyazıt, Divriği, Hınıs, Malazgirt, Erciş, Ahlat and Özalp temperatures were seasonal normal. There were above normal temperature in other parts of Türkiye.

The lowest temperature was observed in Erzurum with -26.2 °C and the highest temperature was observed in Ordu with 34.8°C. There were 68 new extreme maximum temperature records observed.

Türkiye's areal mean precipitation in March 2025 was 28.8 mm. This value is approximately 53% below from the 1991-2020's normal (61.2 mm)

In March, regional precipitation was below normal in all regions except around Erzincan, Tunceli and Trabzon. A decrease of more than 79% compared to normal was observed in Aegean and Northern Central Anatolia region. In March, the highest precipitation was recorded in Tunceli with 89.2 mm and lowest recorded with 5.1 mm precipitation in Ankara.

The number of rainy days in March 2025 in Türkiye was below normal with 6.4 days (1991-2020 normal is 11.3 days). The number of rainy days was between 15-20 days in the Kırklareli, Çanakkale, Balıkesir, Ordu, Giresun, Gümüşhane, Bayburt, Rize, Artvin and Bingöl. N. of rainy day has been reduced to one (1) day in İzmir, Manisa, Uşak, Aydın, Mersin, Karaman, Adana, Hatay, Ankara, Çankırı, Çorum, Kırıkkale and Eskişehir .

There are 48 extreme events have been reported in March 2025 in TSMS's Kardelen Database. Percentage of extreme events in March 2025 were storm-tornado (27%), frost (23%), hail (19%), snow(15%), landslide (8%), heavy rain-flood (6%), avalanche (2%).

2. Temperature

In March 2025, in Dalaman, Korkuteli, Gemerek, Zara, Kangal, Pınarbaşı (Kayseri), Artvin, Gümüşhane, Bayburt, İspir, Oltu, Ardahan, Erzincan, Erzurum, Ağrı, Van, Muş, Tortum, Horasan Tercan, Doğubeyazıt, Divriği, Hınıs, Malazgirt, Erciş, Ahlat and Özalp temperatures were seasonal normal. There were above normal temperature in other parts of Türkiye.

The mean temperature of Türkiye in March 2025 was 10.7°C. This value was 3.0°C above the 1991-2020's normal (7.7°C).Fig.2.1)

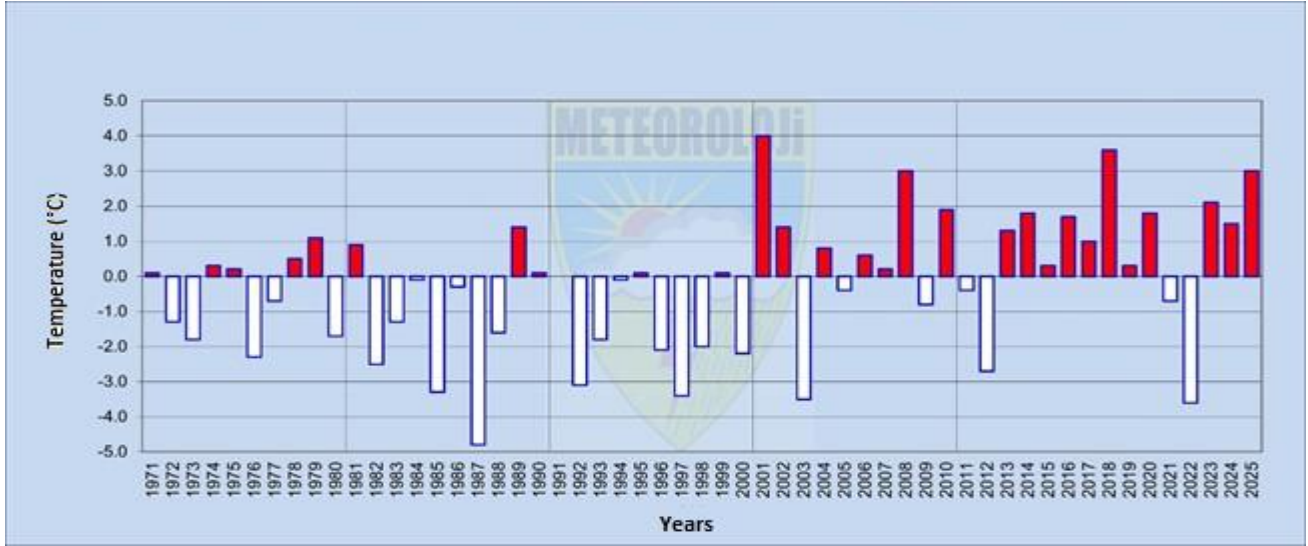


Figure 2.1 Monthly mean temperature anomalies in March (Url 1).

In March 2025, mean temperatures differences was positive in all Regions except Horasan and Tercan (Fig.2.2).

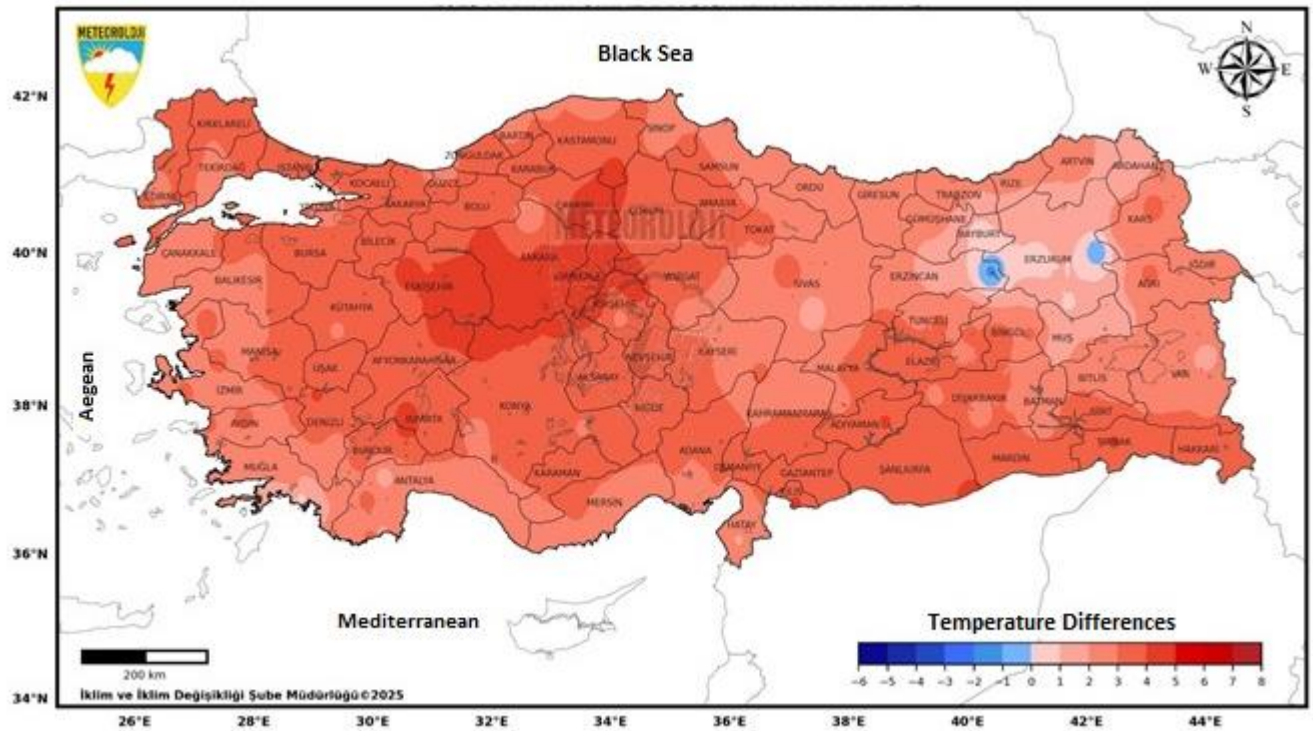


Figure 2.2. Spatial distribution of mean temperature anomaly in Türkiye in March 2025 (Url 1).



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

The monthly mean temperature in March was above it's seasonal normal.

2.1. Regional Temperature

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

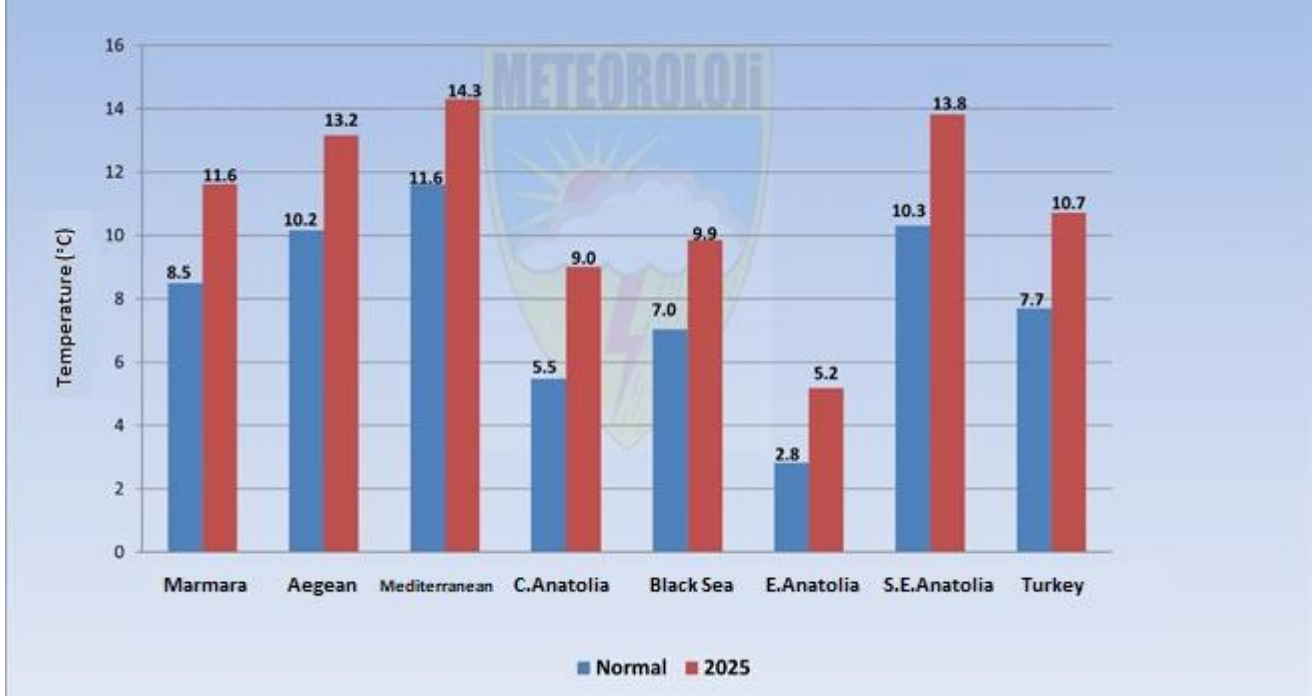


Figure 2. 4 Regional mean temperature differences in March 2025 (Url 1).

2.2. Extreme Temperature

The lowest temperature was observed in Erzurum with -26.2 °C and the highest temperature was observed in Ordu with 34.8°C. There were 68 new extreme maximum temperature records observed.

3. Precipitation

Türkiye's areal mean precipitation in March 2025 was 28.8 mm. This value is approximately 53% below from the 1991-2020's normal (61.2 mm) (Fig. 3.1)

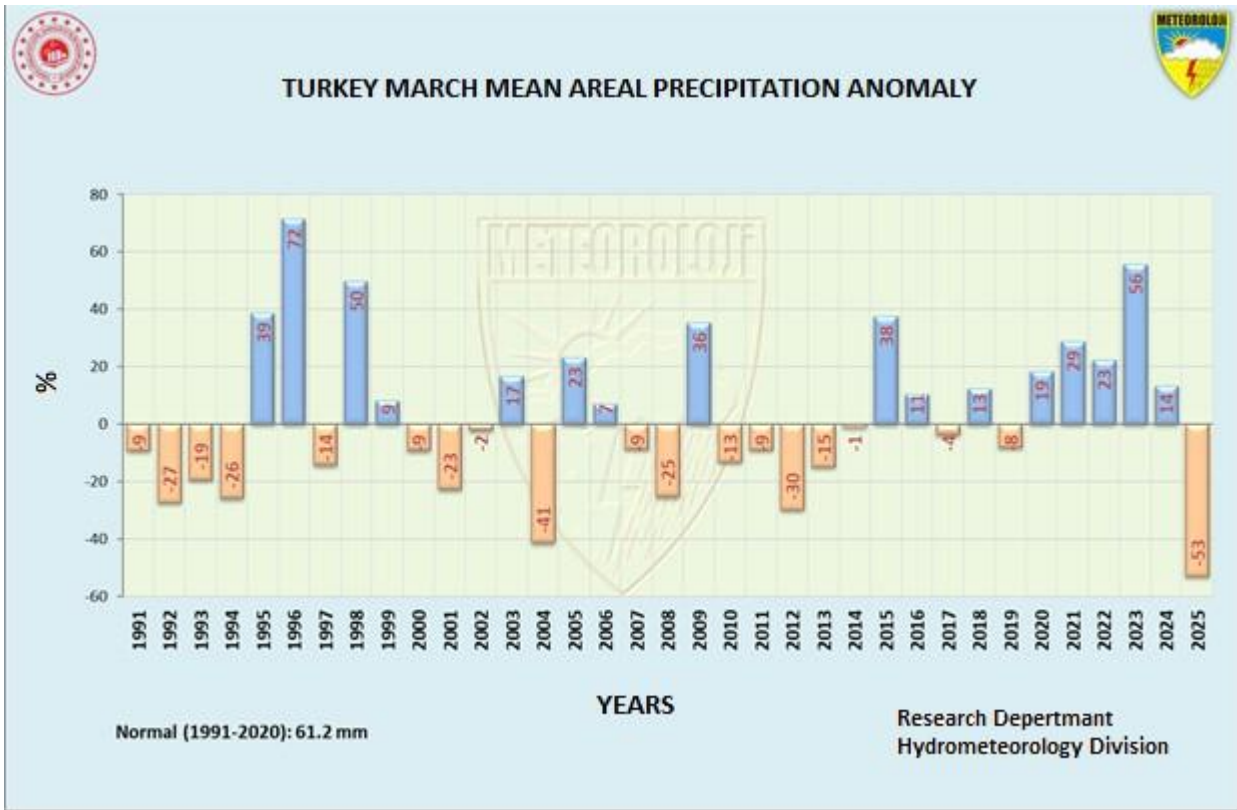


Figure 3. 1 Areal precipitation anomaly in March in Türkiye (Url 2).

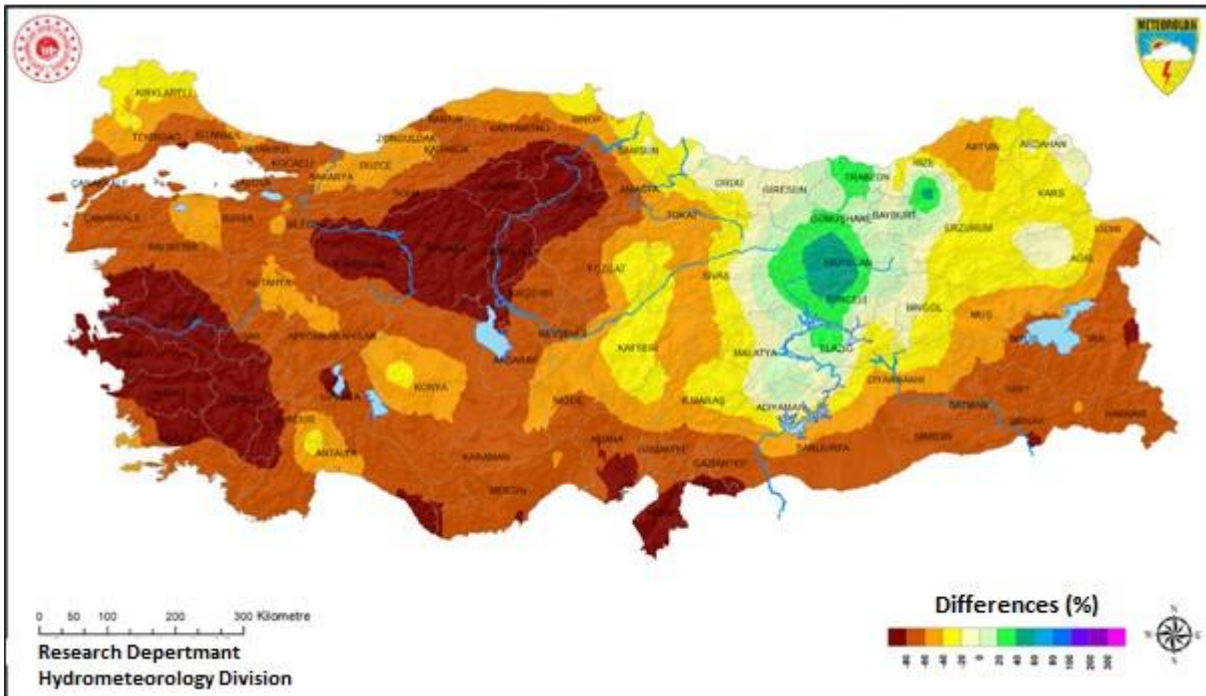


Figure 3. 2 Spatial distribution of mean precipitation anomalies in March 2025 (Url 2).

In March, regional precipitation was below normal in all regions except around Erzincan, Tunceli and Trabzon. A decrease of more than 79% compared to normal was observed in Aegean and Northern Central Anatolia region. In March, the highest precipitation was recorded in Tunceli with 89.2 mm and lowest recorded with 5.1 mm precipitation in Ankara (Fig. 3.2).

3.1. Regional Precipitation

In March, Regional precipitation, were below normal (1991-2020) in all Regions. (Figure 3.3).



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

3.2. Rainy Days

The number of rainy days in March 2025 in Türkiye was below normal with 6.4 days (1991-2020 normal is 11.3 days). The number of rainy days was between 15-20 days in the Kırklareli, Çanakkale, Balıkesir, Ordu, Giresun, Gümüşhane, Bayburt, Rize, Artvin and Bingöl. N. of rainy day has been reduced to one (1) day in İzmir, Manisa, Uşak, Aydın, Mersin, Karaman, Adana, Hatay, Ankara, Çankırı, Çorum, Kırıkkale and Eskişehir (Fig. 3.4).

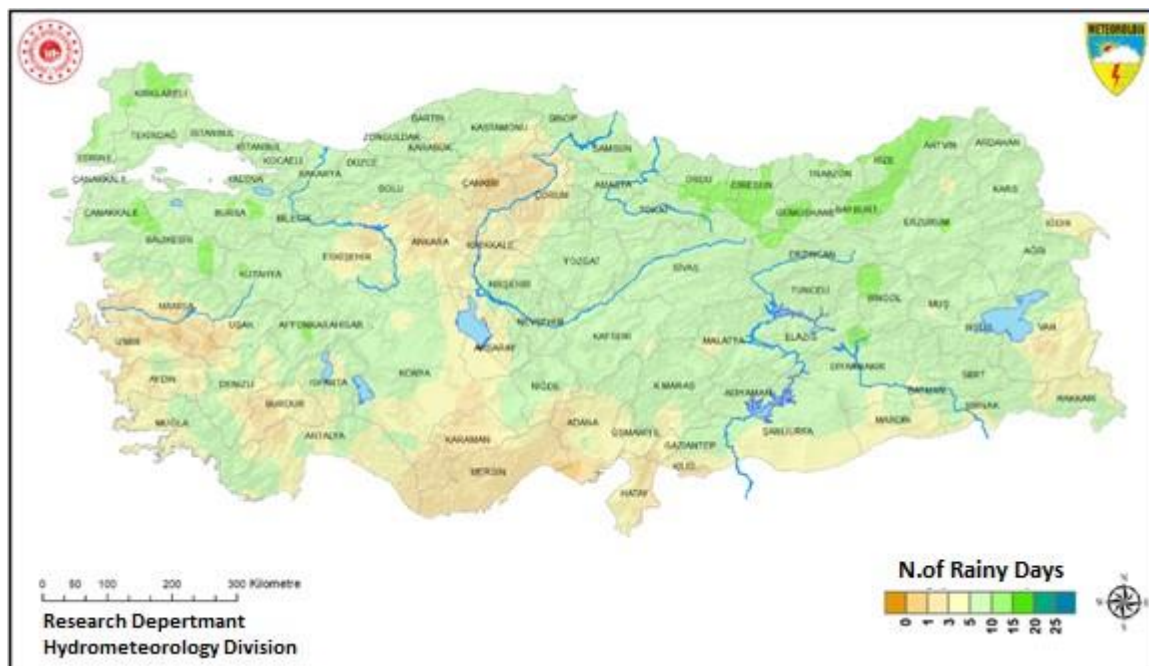


Figure 3. Number of rainy days in March 2025 (Url 2).

4. Extreme Meteorological Events

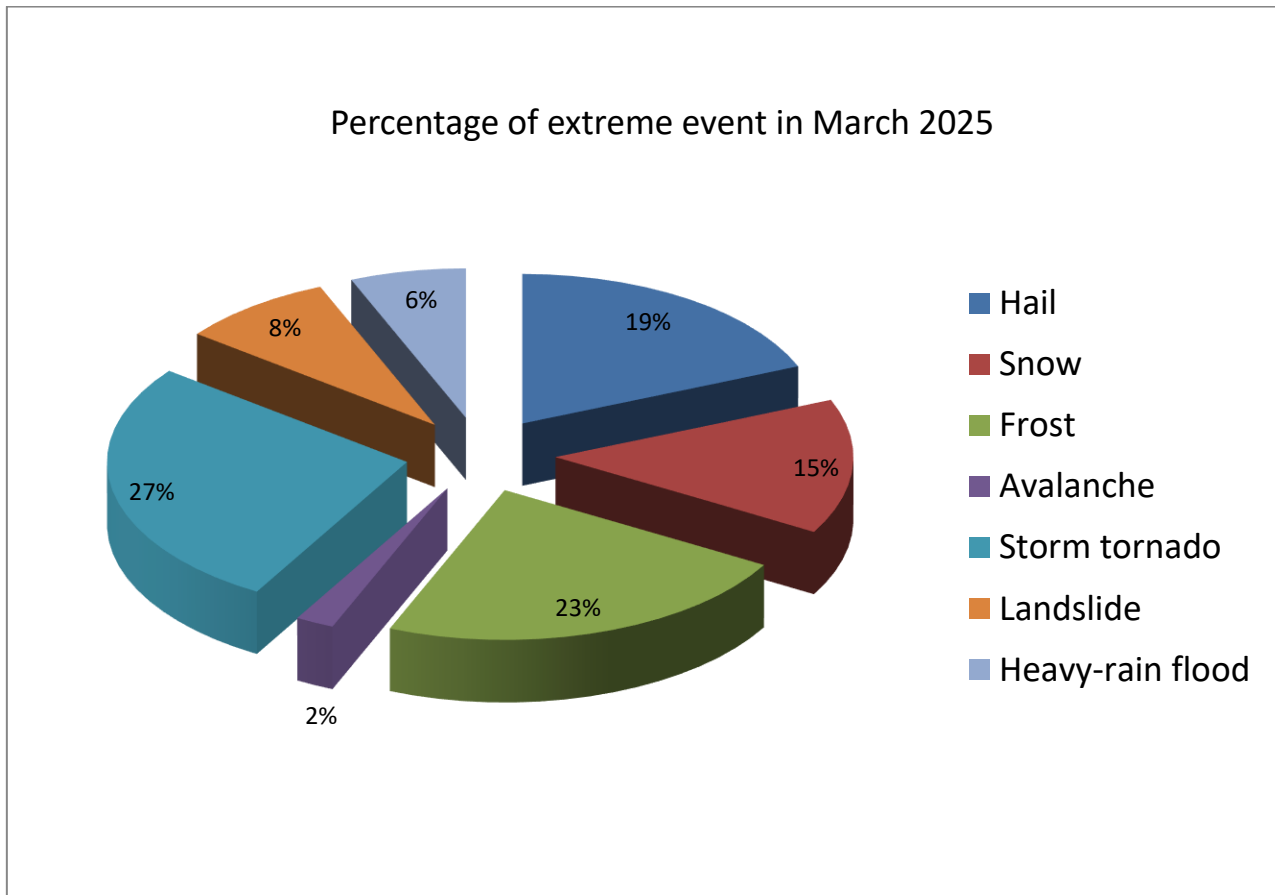


Figure 4.1. Percentage of extreme event in March 2025 (Url 3).

There are 48 extreme events have been reported in March 2025 in TSMS's Kardelen Database. Percentage of extreme events in March 2025 were storm-tornado (27%), frost (23%), hail (19%), snow(15%), landslide (8%), heavy rain-flood (6%), avalanche (2%) (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>



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