



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



State of the Climate in October 2025



Climate and Agricultural Meteorology Department
Research Department

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2025

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1. Introduction

The mean temperature of Türkiye in October 2025 was 15.7°C. This value was 0.1°C above the 1991-2020's normal (15.6°C).

In October 2025, temperatures were above seasonal normal in Kale (Demre), Van, Başkale and Şırnak. There were below seasonal normal in Dalaman, Acıpayam, Korkuteli, Akhisar, Muğla, and Kızılcabamam. There were near seasonal normal temperature in other parts of Türkiye.

The lowest temperature was observed in Kangal with -6.8°C and the highest temperature was observed in Cizre with 37.5°C. No new extreme maximum temperature was observed.

Türkiye's areal mean precipitation in October 2025 was 53.5 mm. This value is approximately 8% above from the 1991-2020's normal (49.4 mm).

In October, regional precipitation was above normal except Central Anatolia and Eastern Anatolia region. A decrease of more than 60% compared to normal was observed in, Konya, Karaman, Niğde, Kayseri, Nevşehir, Kahramanmaraş, Malatya, Elazığ, Şanlıurfa, Mardin, Batman and Şırnak. Increase of more than %100 compared to normal was observed in, Çanakkale, Balıkesir, Manisa, İzmir, Muğla, Bolu, Düzce, Zonguldak, Samsun and Amasya. In October, the highest precipitation was recorded in Zonguldak with 196.5 mm. The lowest precipitation was observed in Mardin with 19.4 mm.

The number of rainy days in October 2025 in Türkiye was above normal with 9.8 days (1991-2020 normal is 7.9 days). The number of rainy days were between 10-15 days in the İstanbul, Kocaeli, Yalova, Bursa, Balıkesir, Mersin and Black Sea region. The number of rainy days were between 3-5 days in the Antalya, Karaman, Kayseri, Kahramanmaraş, Malatya, Elazığ, Hakkari and Southeastern Anatolia region.

There are 76 extreme events have been reported in October 2025 in TSMS's Kardelen Database. Percentage of extreme events in October 2025 were heavy rain-flood (54%), storm-tornado (26%), hail (12%), lightning (7%), drought (1%).

2. Temperature

In October 2025, temperatures were above seasonal normal in Kale (Demre), Van, Başkale and Şırnak. There were below seasonal normal in Dalaman, Acıpayam, Korkuteli, Akhisar, Muğla, and Kızılcabamam. There were near seasonal normal temperature in other parts of Türkiye. (Fig.2.1)

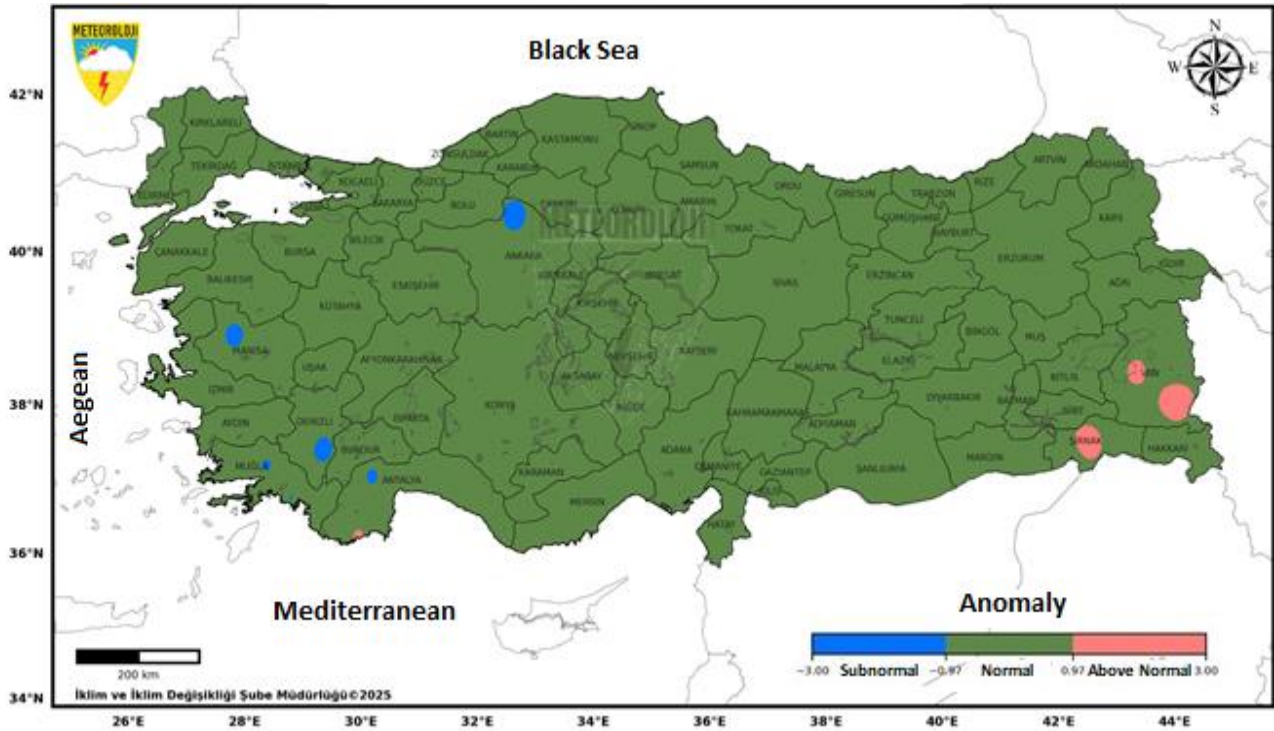


Figure 2.1 Türkiye's mean temperature anomalies in October (Fig.2.1)

The mean temperature of Türkiye in October 2025 was 15.7°C. This value was 0.1°C above the 1991-2020's normal (15.6°C)(Fig.2.2).

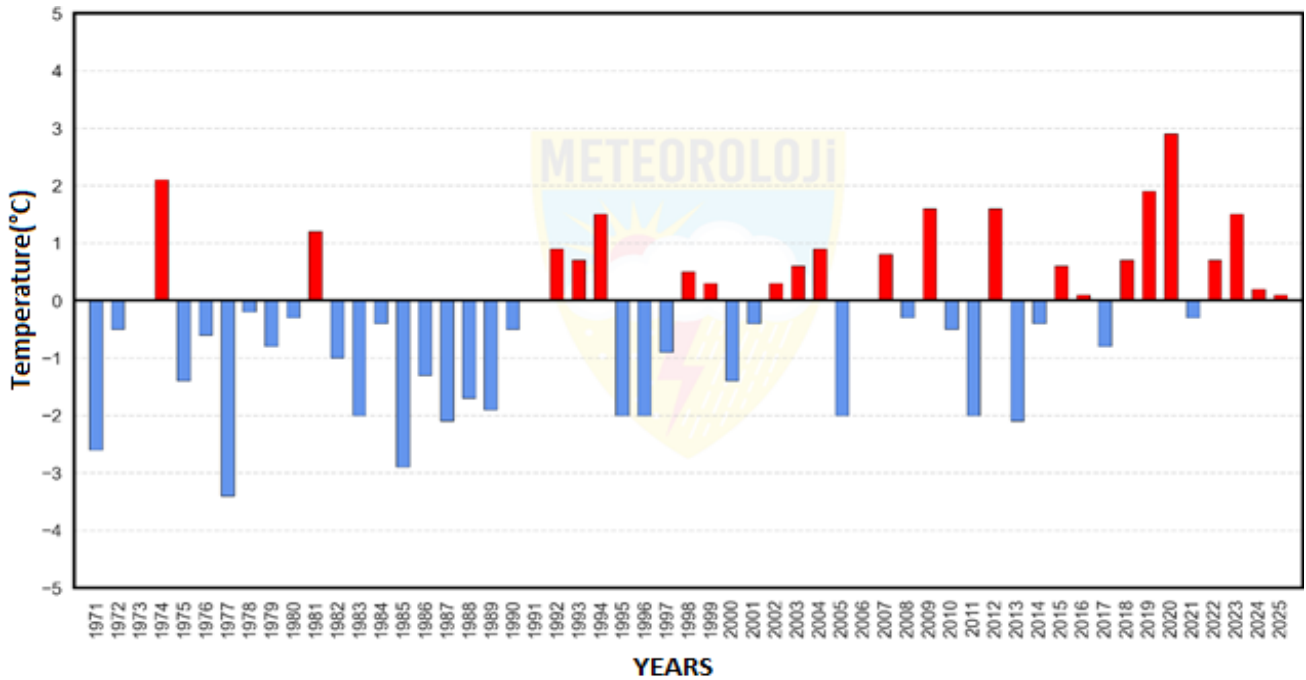


Figure 2.2 Monthly mean temperature anomalies in October (Url 1).

In October 2025, mean temperatures differences was positive in most of Türkiye while slightly below in Aegean region and Central Anatolia and eastern Mediterranean Region (Fig.2.3).

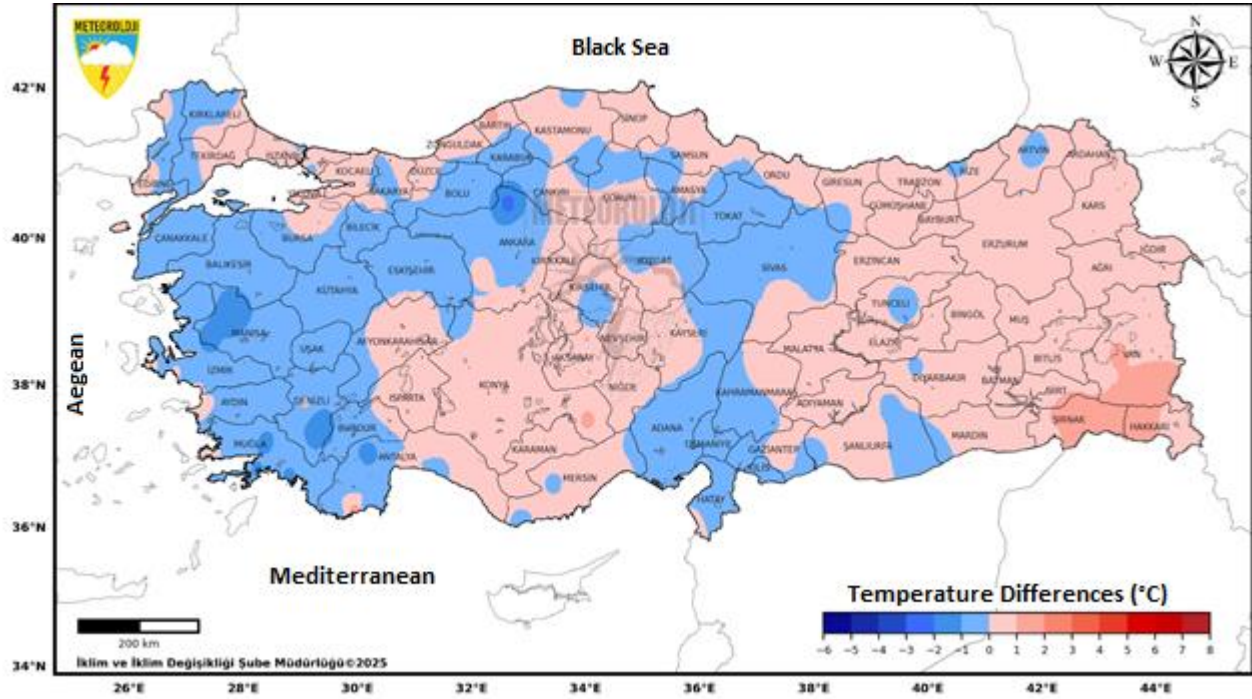


Figure 2.3. Spatial distribution of mean temperature differences in Türkiye in October 2025 (Url 1).

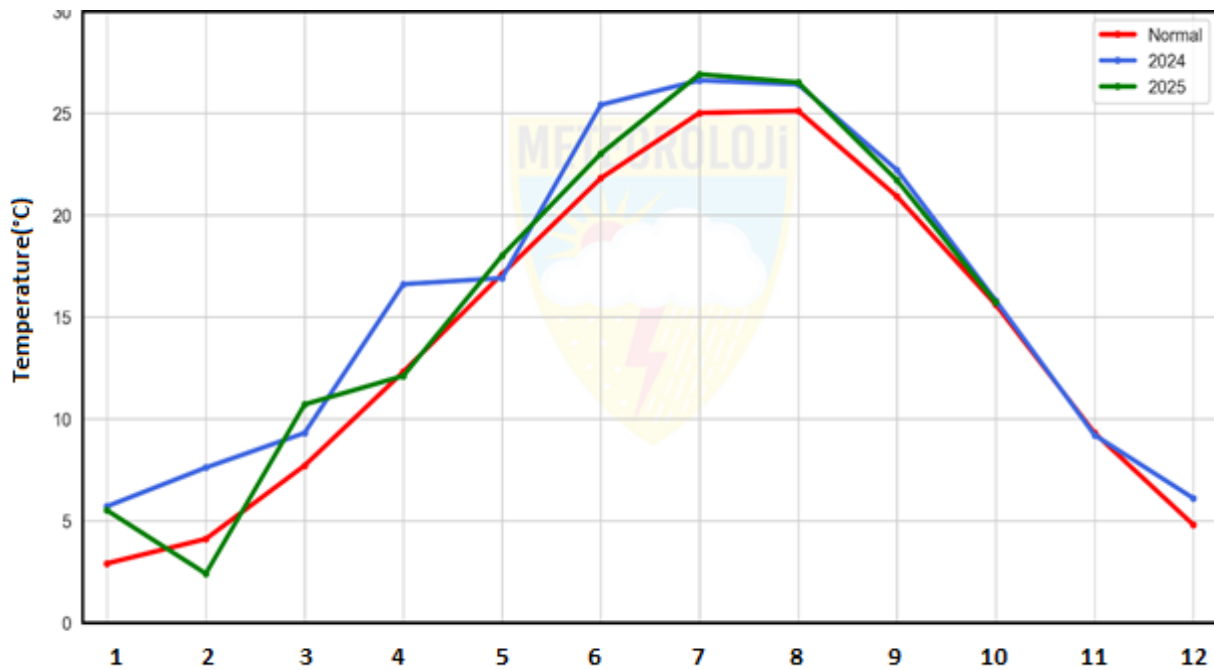


Figure 2. 4 The difference of the monthly mean temperature in 2025 from normal (1991-2020) (Url 1).

The monthly mean temperature in October was near seasonal normal.

2.1. Regional Temperature

Regional temperatures were below their normal except Aegean and Mediterranean regions (Fig. 2.4).

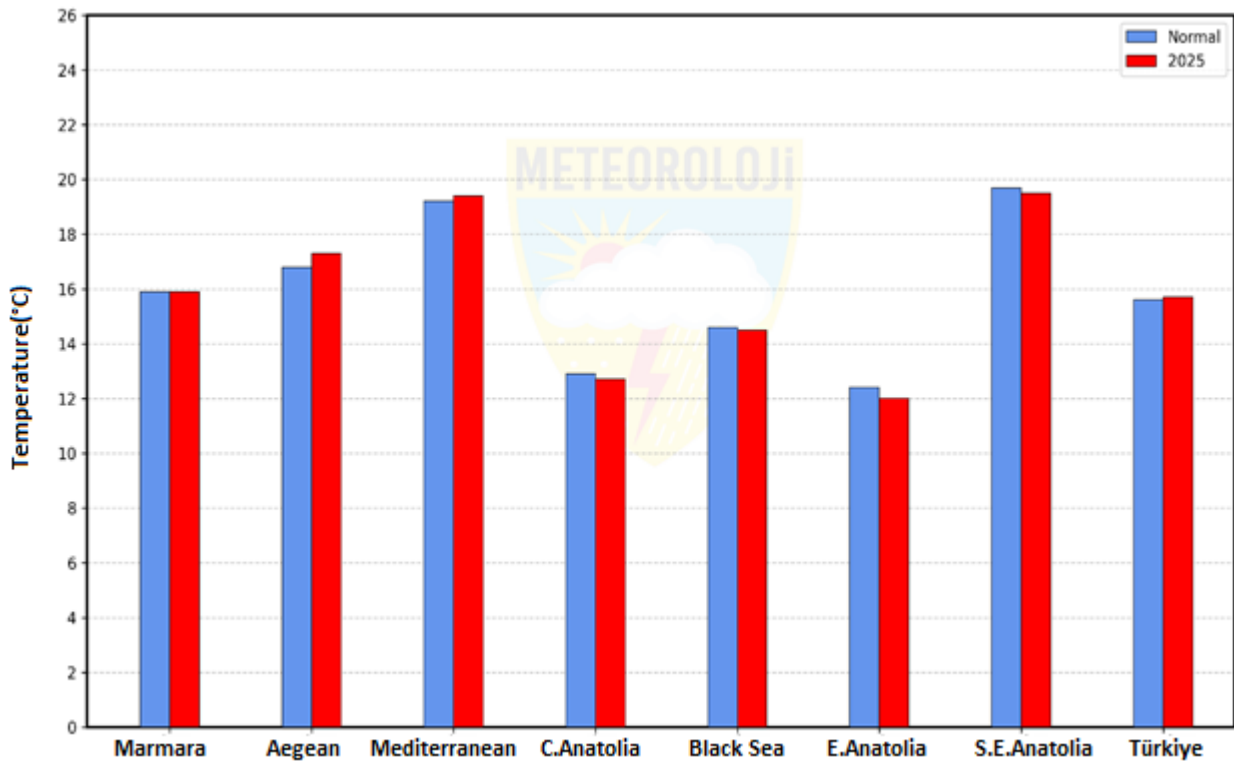


Figure 2. 4 Regional mean temperature differences in October 2025 (Url 1).

2.2. Extreme Temperature

The lowest temperature was observed in Kangal with -6.8°C and the highest temperature was observed in Cizre with 37.5°C . No new extreme maximum temperature was observed.

3. Precipitation

Türkiye's areal mean precipitation in October 2025 was 53.5 mm. This value is approximately 8% above from the 1991-2020's normal (49.4 mm) (Fig. 3.1).

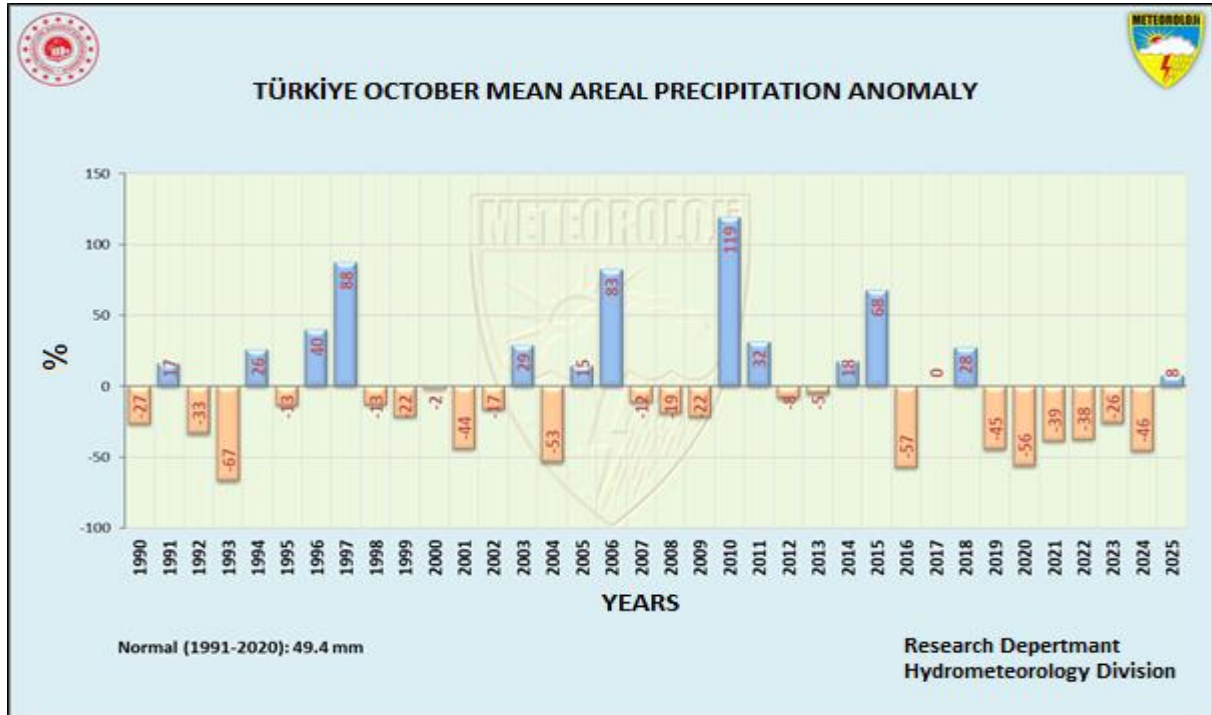


Figure 3. 1 Areal precipitation anomaly in October in Türkiye (Url 2).

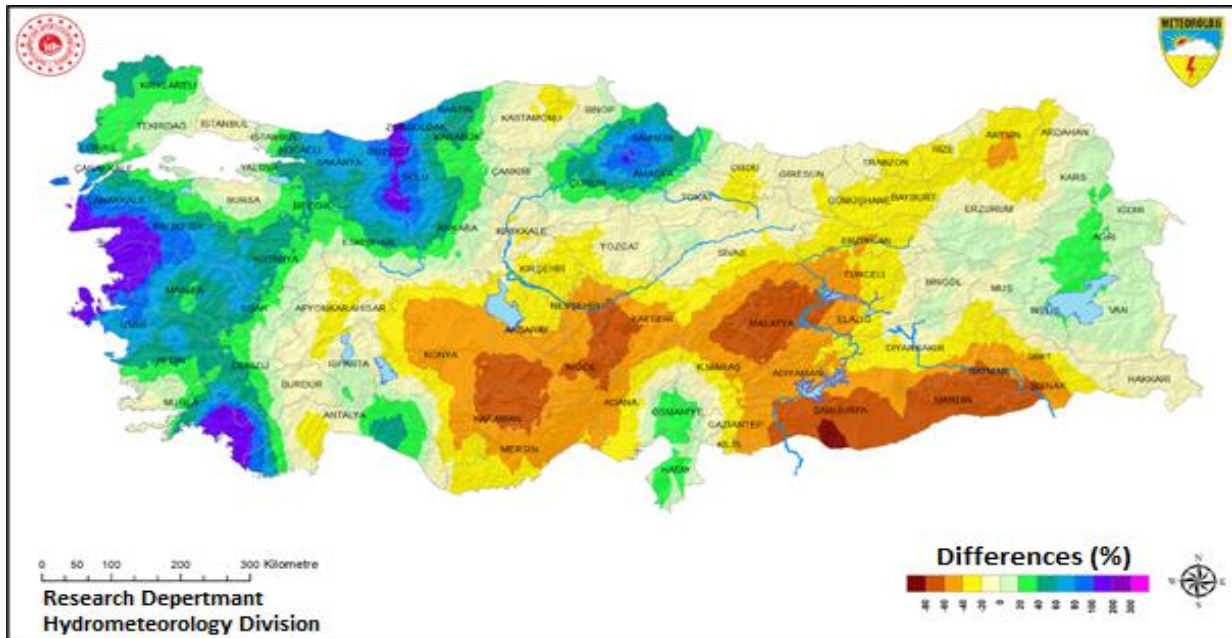


Figure 3. 2 Spatial distribution of mean precipitation anomalies in October 2025 (Url 2).

In October, regional precipitation was above normal except Central Anatolia and Eastern Anatolia region. A decrease of more than 60% compared to normal was observed in, Konya, Karaman, Niğde, Kayseri, Nevşehir, Kahramanmaraş, Malatya, Elazığ, Şanlıurfa, Mardin, Batman and Şırnak. Increase of more than %100 compared to normal was observed in, Çanakkale, Balıkesir, Manisa, İzmir, Muğla, Bolu, Düzce, Zonguldak, Samsun and Amasya. In October, the highest precipitation

was recorded in Zonguldak with 196.5 mm. The lowest precipitation was observed in Mardin with 19.4 mm (Fig. 3.2).

3.1. Regional Precipitation

In October 2025, regional precipitation, were above their normal except C.Anatolia, E.Anatolia and S.E.Anatolia regions (1991-2020) (Figure 3.3).

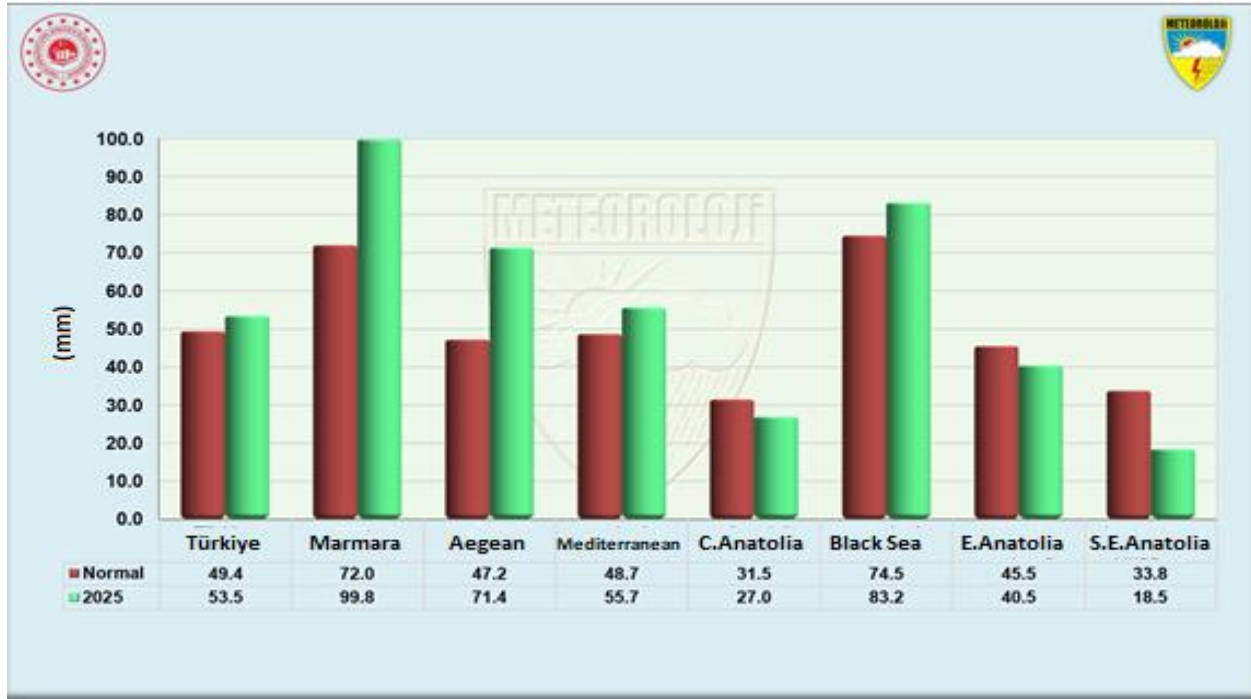


Figure 3. 3 Regional Precipitation Differences in October 2025 (Fig 3.3)

3.2. Rainy Days

The number of rainy days in October 2025 in Türkiye was above normal with 9.8 days (1991-2020 normal is 7.9 days). The number of rainy days were between 10-15 days in the İstanbul, Kocaeli, Yalova, Bursa, Balıkesir, Mersin and Black Sea region. The number of rainy days were between 3-5 days in the Antalya, Karaman, Kayseri, Kahramanmaraş, Malatya, Elazığ, Hakkari and Southeastren Anatolia region. (Fig. 3.4).

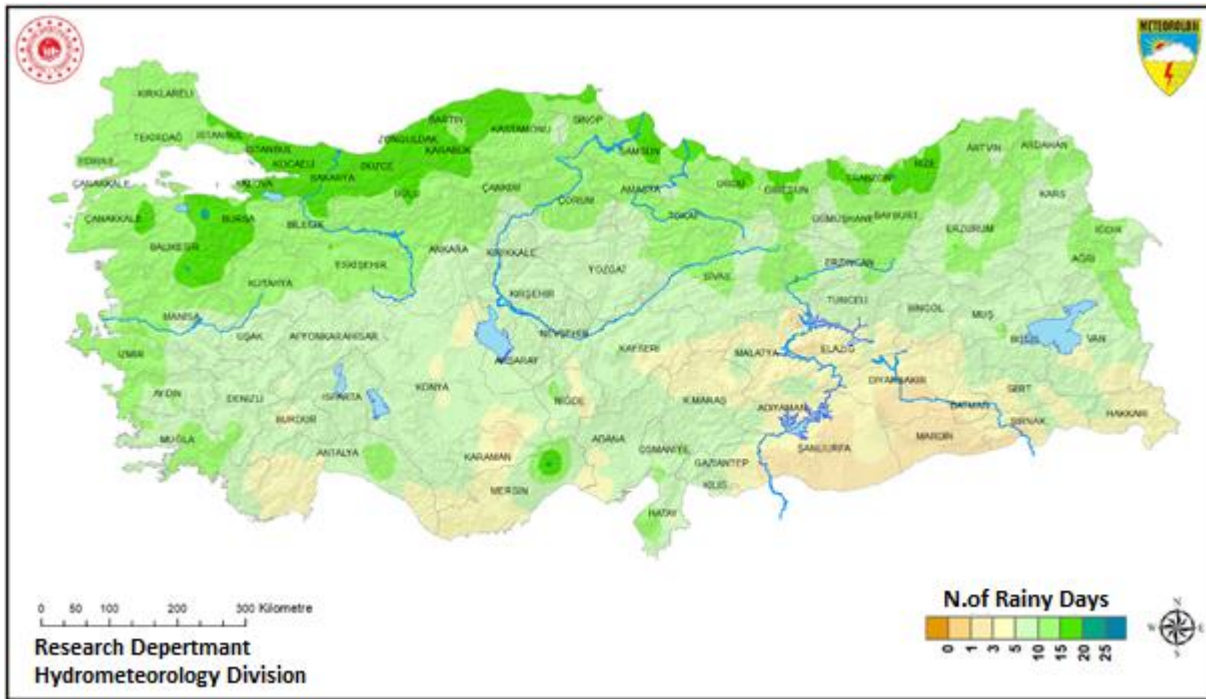


Figure 3.4 Number of rainy days in October 2025 (Url 2).

4. Extreme Meteorological Events

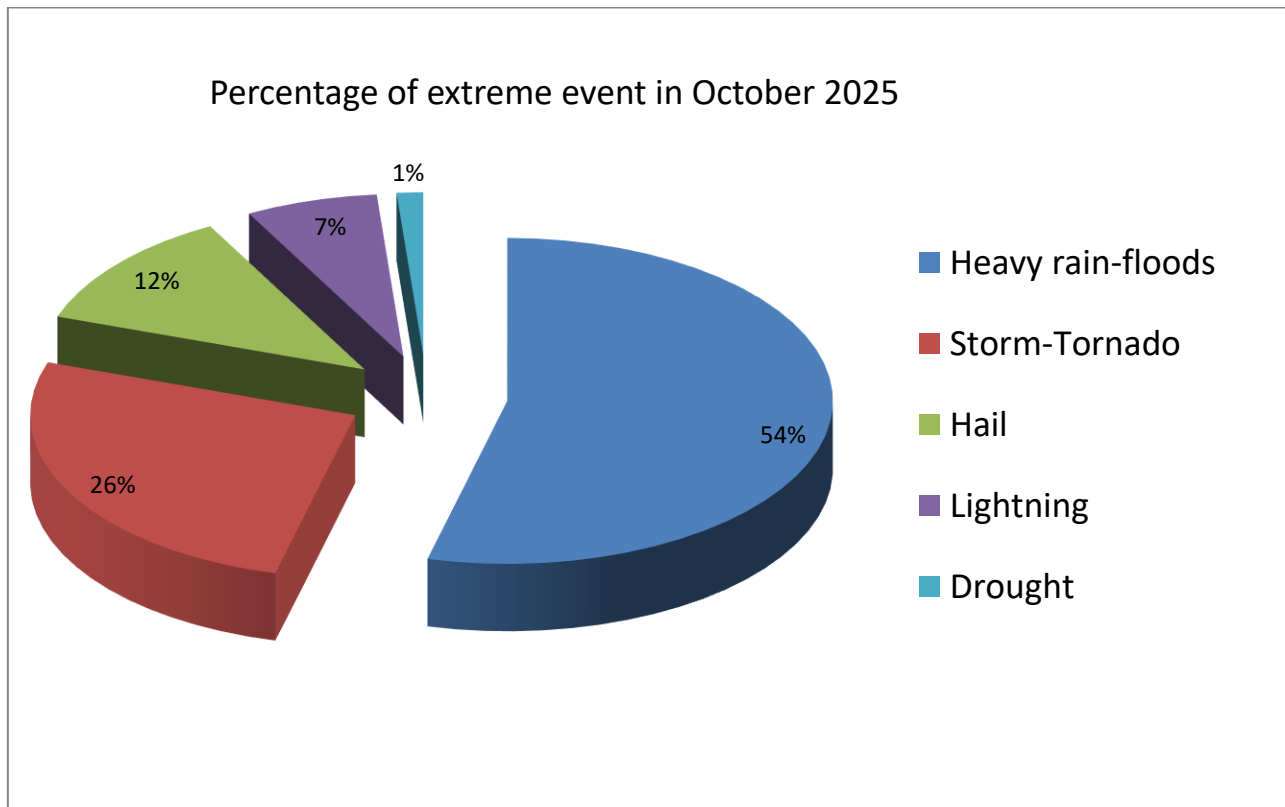


Figure 4.1. Percentage of extreme event in October 2025 (Url 3).

There are 76 extreme events have been reported in October 2025 in TSMS's Kardelen Database. Percentage of extreme events in October 2025 were heavy rain-flood (54%), storm-tornado (26%), hail (12%), lightning (7%), drought (1%) (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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