



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



State of the Climate in September 2025



Climate and Agricultural Meteorology Department
Research Department

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1. Introduction

The mean temperature of Türkiye in September 2025 was 21.7°C. This value was 0.8°C above the 1991-2020's normal (20.9°C).

In September 2025, temperatures were above seasonal normal in Mediterranean region, Edirne, Kadıköy, Kocaeli, Gökçeada, Çanakkale, Bursa, Yalova, Ayvalık, Dikili, Manisa, Uşak, İzmir, Çeşme, Kuşadası, Aydın, Denizli, Bodrum, Muğla, Marmaris, Uzunköprü, İpsala, Burhaniye, Bergama, Gediz, Seferihisar, Ödemiş, Nazilli and Yatağan. There were near seasonal normal temperature in other parts of Türkiye.

The lowest temperature was observed in Erzurum with -2.4°C and the highest temperature was observed in Cizre with 44.6°C. There were 20 new extreme maximum temperature records observed.

Türkiye's areal mean precipitation in September 2025 was 21.4 mm. This value is approximately 14% below from the 1991-2020's normal (24.9 mm)

In September, regional precipitation was below normal in except Black Sea region. A decrease of more than 80% compared to normal was observed in, Edirne Kırklareli, Tekirdağ, Çanakkale, Antalya, Eastern Anatolia region, Mersin, Adana, Niğde, Kayseri, Hatay, Kahramanmaraş and South Eastern Anatolia region. Increase of more than %80 compared to was observed in, Nevşehir, Yozgat, Amasya, Sinop, Samsun, Ordu, Giresun, Trabzon and Artvin. In September, the highest precipitation was recorded in Rize with 265.3 mm. Mardin was the only city that did not receive any rain in September.

The number of rainy days in September 2025 in Türkiye was above normal with 4.5 days (1991-2020 normal is 4.4 days). The number of rainy days were between 10-15 days in the Kastamonu, Sinop, Ordu, Giresun, Trabzon and Artvin. There was no rain South Eastren Anatolia, Hatay, Mardin, Kilis and Hakkari.

There are 57 extreme events have been reported in September 2025 in TSMS's Kardelen Database. Percentage of extreme events in September 2025 were storm-tornado (40%), heavy rain-flood (37%), lightning (12%), hail (9%), wild fire (2%).

2. Temperature

In September 2025, temperatures were above seasonal normal in Mediterranean region, Edirne, Kadıköy, Kocaeli, Gökçeada, Çanakkale, Bursa, Yalova, Ayvalık, Dikili, Manisa, Uşak, İzmir, Çeşme, Kuşadası, Aydın, Denizli, Bodrum, Muğla, Marmaris, Uzunköprü, İpsala, Burhaniye, Bergama, Gediz, Seferihisar, Ödemiş, Nazilli and Yatağan. There were near seasonal normal temperature in other parts of Türkiye. (Fig.2.1)

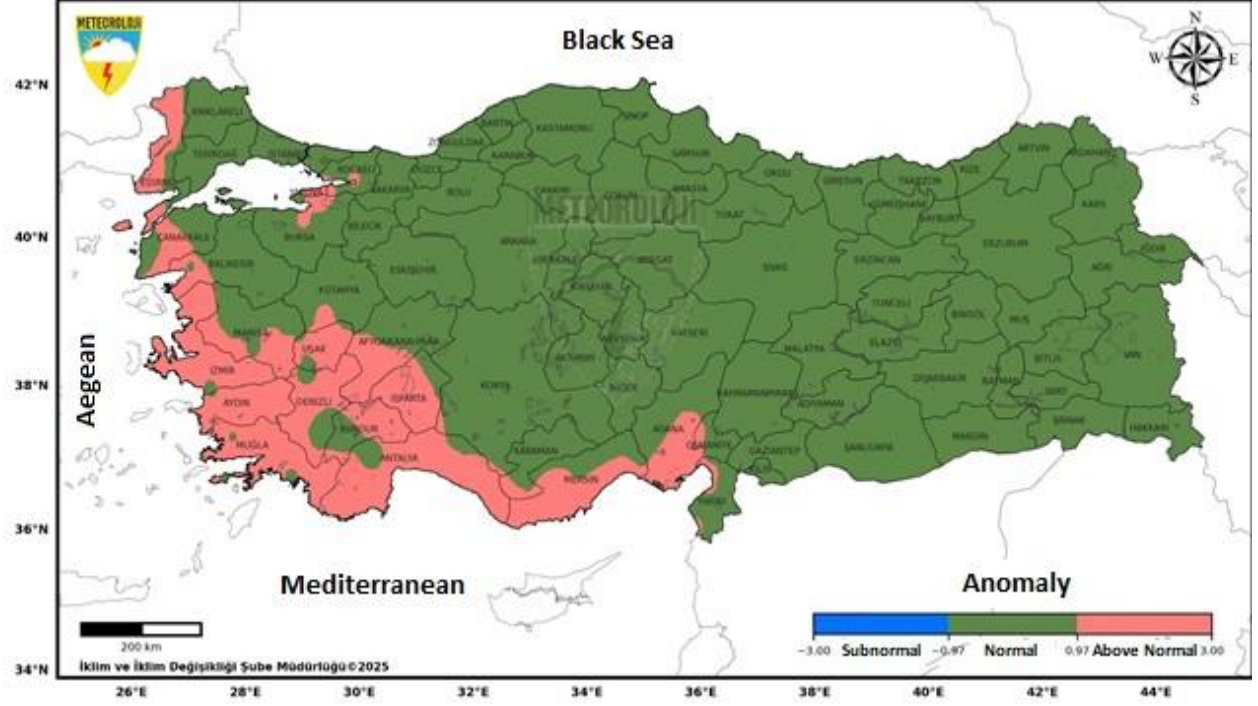


Figure 2.1 Türkiye's mean temperature anomalies in September (Fig.2.1)

The mean temperature of Türkiye in September 2025 was 21.7°C. This value was 0.8°C above the 1991-2020's normal (20.9°C)(Fig.2.2).

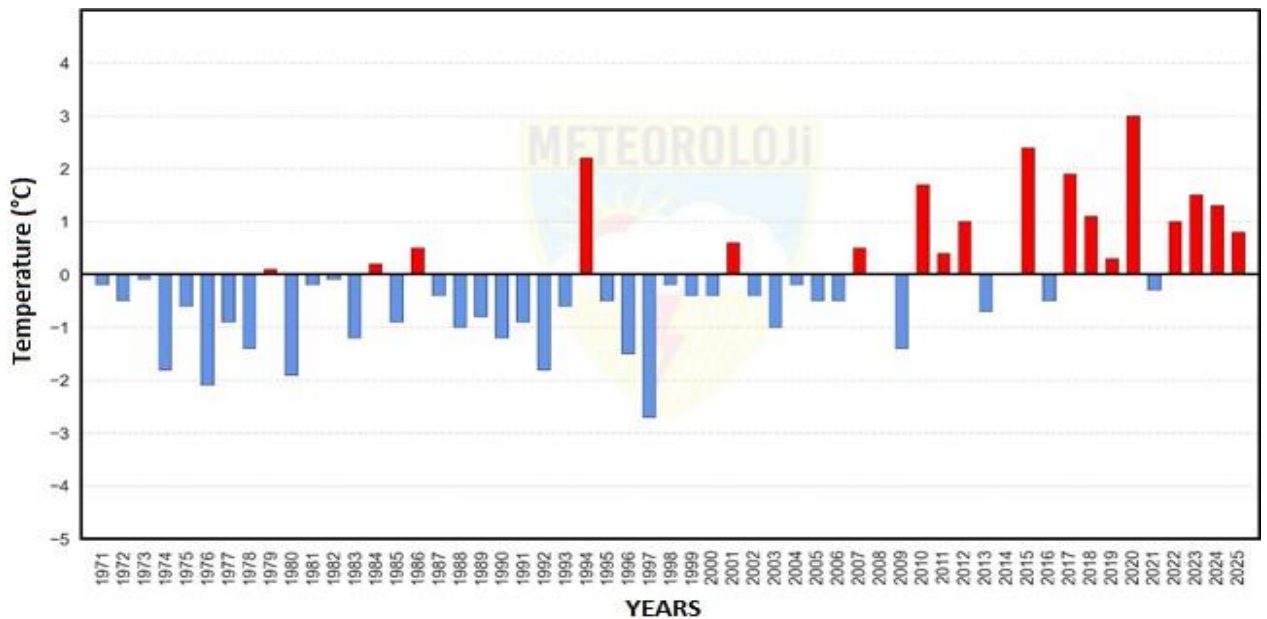


Figure 2.2 Monthly mean temperature anomalies in September (Url 1).

In September 2025, mean temperatures differences was positive in most of Türkiye while slightly below in Black Sea Region (Fig.2.3).

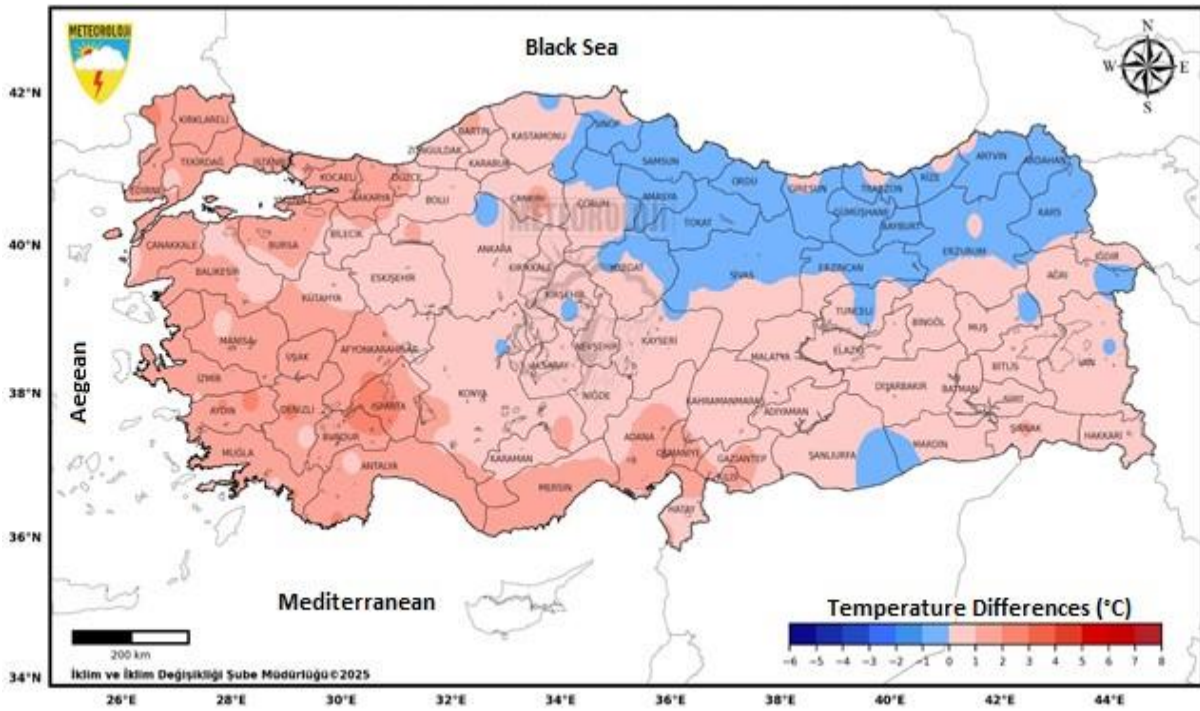


Figure 2.3. Spatial distribution of mean temperature differences in Türkiye in September 2025 (Url 1).

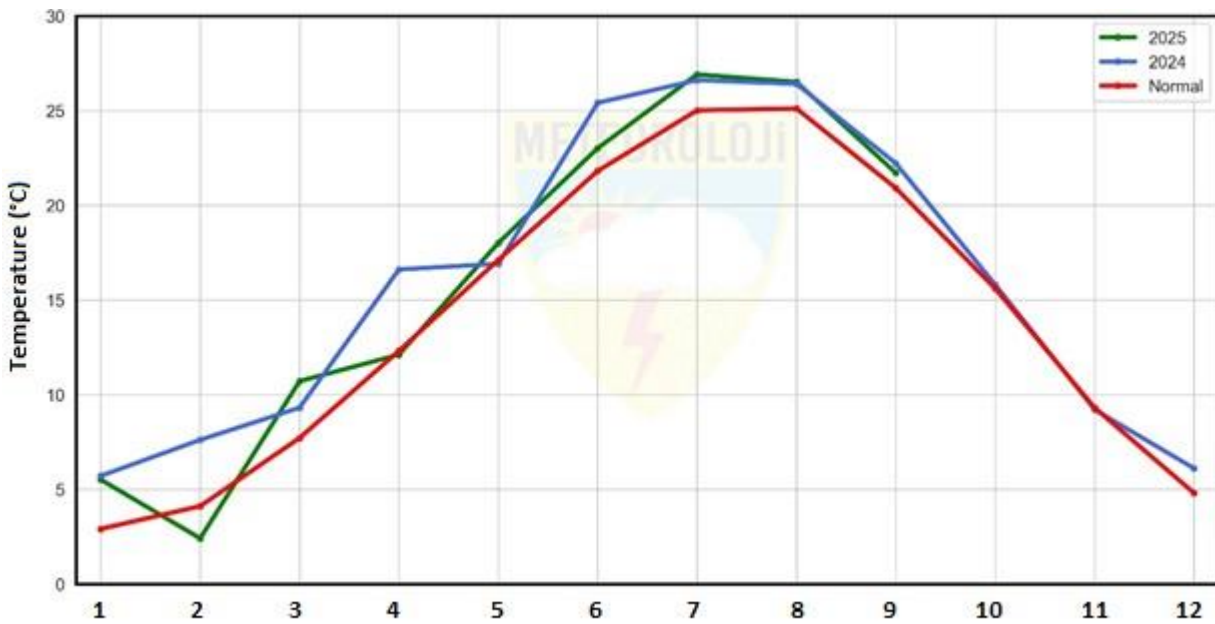


Figure 2. 4 The difference of the monthly mean temperature in 2025 from normal (1991-2020) (Url 1).

The monthly mean temperature in September was above seasonal normal.

2.1. Regional Temperature

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

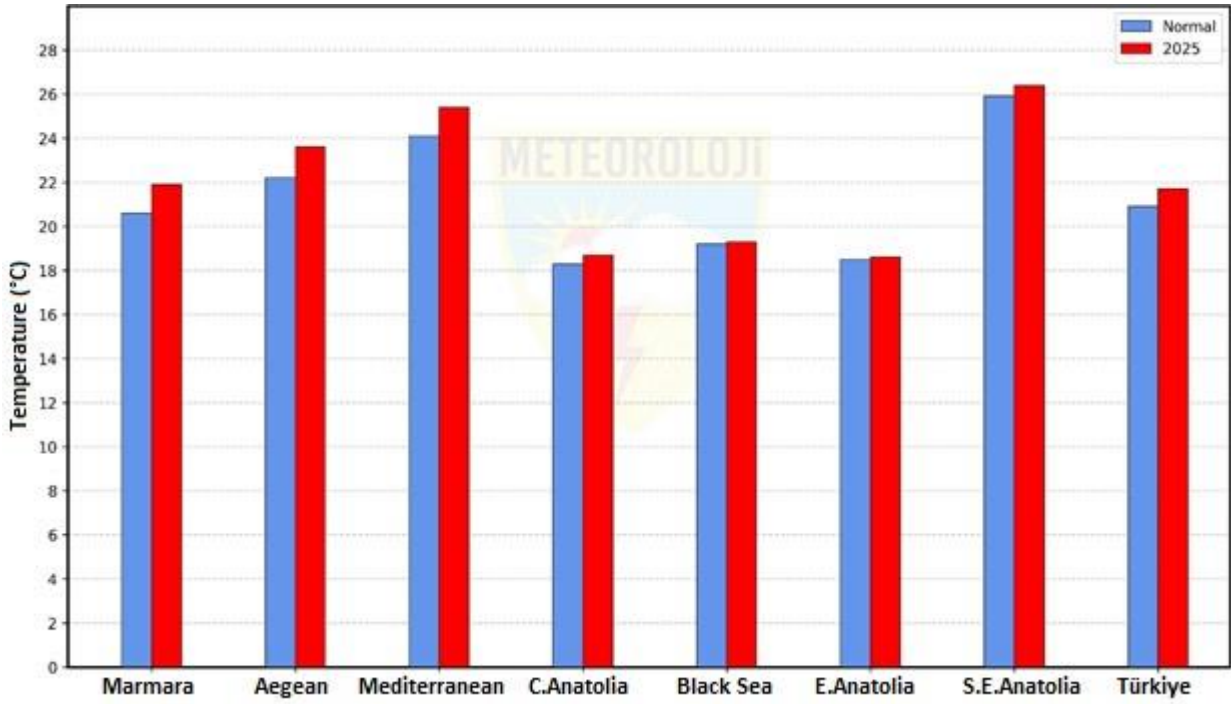


Figure 2. 4 Regional mean temperature differences in September 2025 (Url 1).

2.2. Extreme Temperature

The lowest temperature was observed in Erzurum with -2.4°C and the highest temperature was observed in Cizre with 44.6°C . There were 20 new extreme maximum temperature records observed.

3. Precipitation

Türkiye's areal mean precipitation in September 2025 was 21.4 mm. This value is approximately 14% below from the 1991-2020's normal (24.9 mm)(Fig. 3.1).

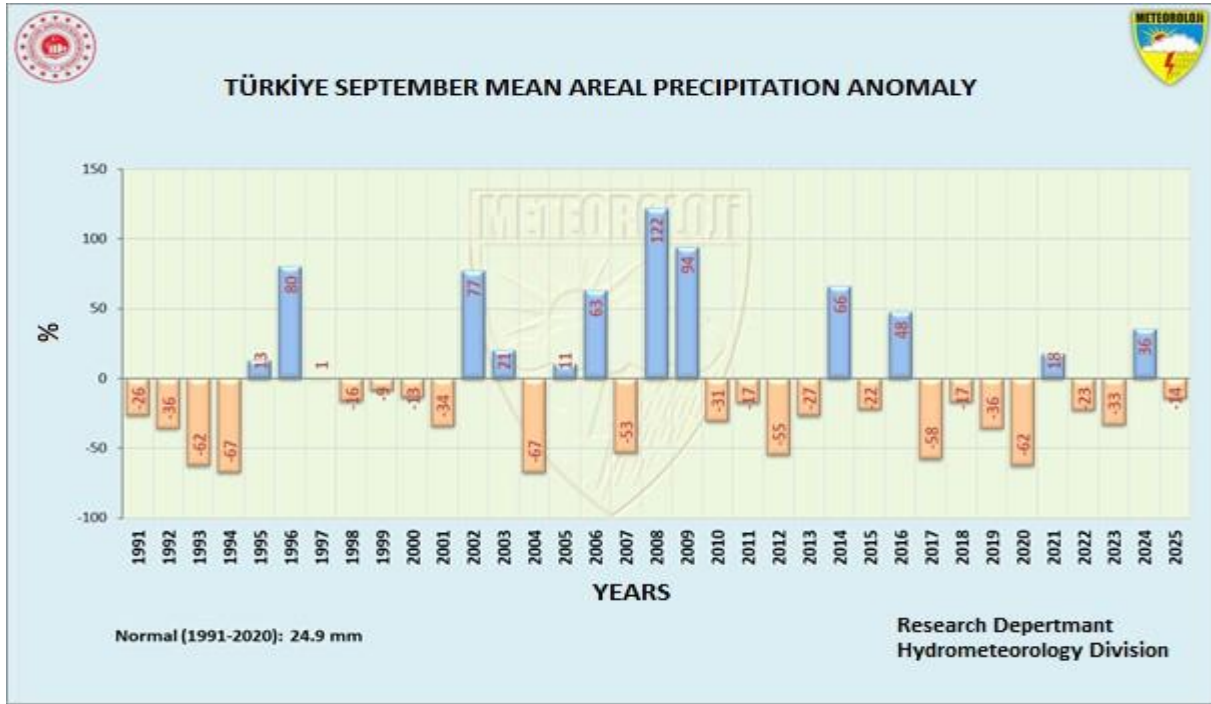


Figure 3. 1 Areal precipitation anomaly in September in Türkiye (Url 2).

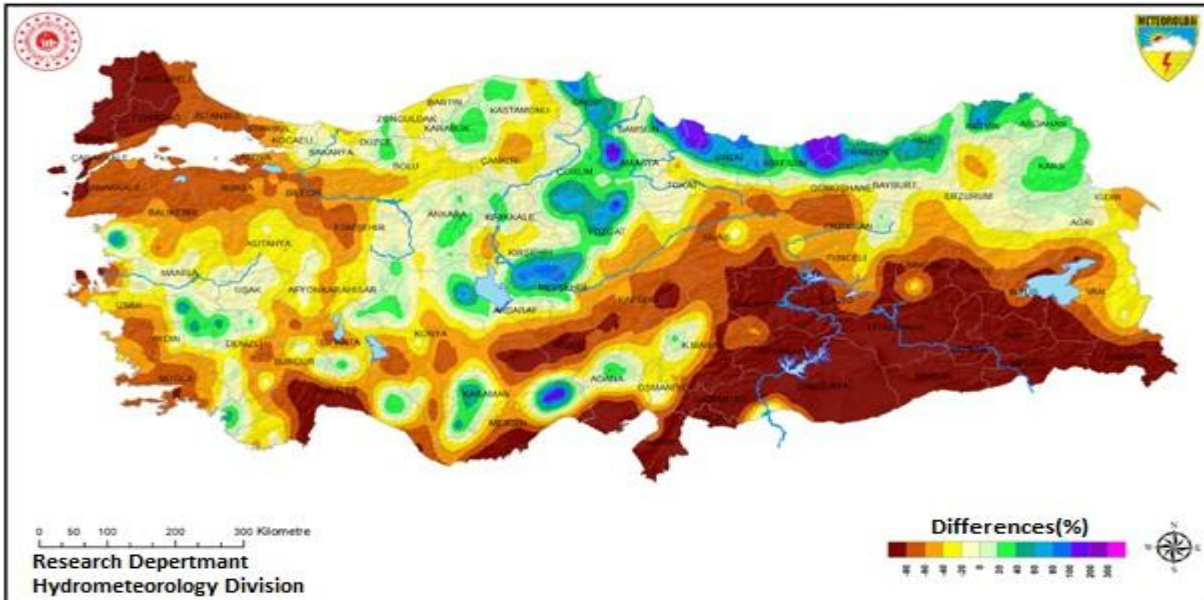


Figure 3. 2 Spatial distribution of mean precipitation anomalies in September 2025 (Url 2).

In September, areal precipitation was below normal except Black Sea region. A decrease of more than 80% compared to normal was observed in, Edirne Kırklareli, Tekirdağ, Çanakkale, Antalya, Eastern Anatolia region, Mersin, Adana, Niğde, Kayseri, Hatay, Kahramanmaraş and South Eastern Anatolia region. Increase of more than %80 compared to was observed in, Nevşehir, Yozgat, Amasya, Sinop, Samsun, Ordu, Giresun, Trabzon and Artvin. In September, the highest

precipitation was recorded in Rize with 265.3 mm. Mardin was the only city that did not receive any rain in September.(Fig. 3.2).

3.1. Regional Precipitation

In September 2025, regional precipitation, were below their normal except Black Sea (1991-2020) (Figure 3.3).

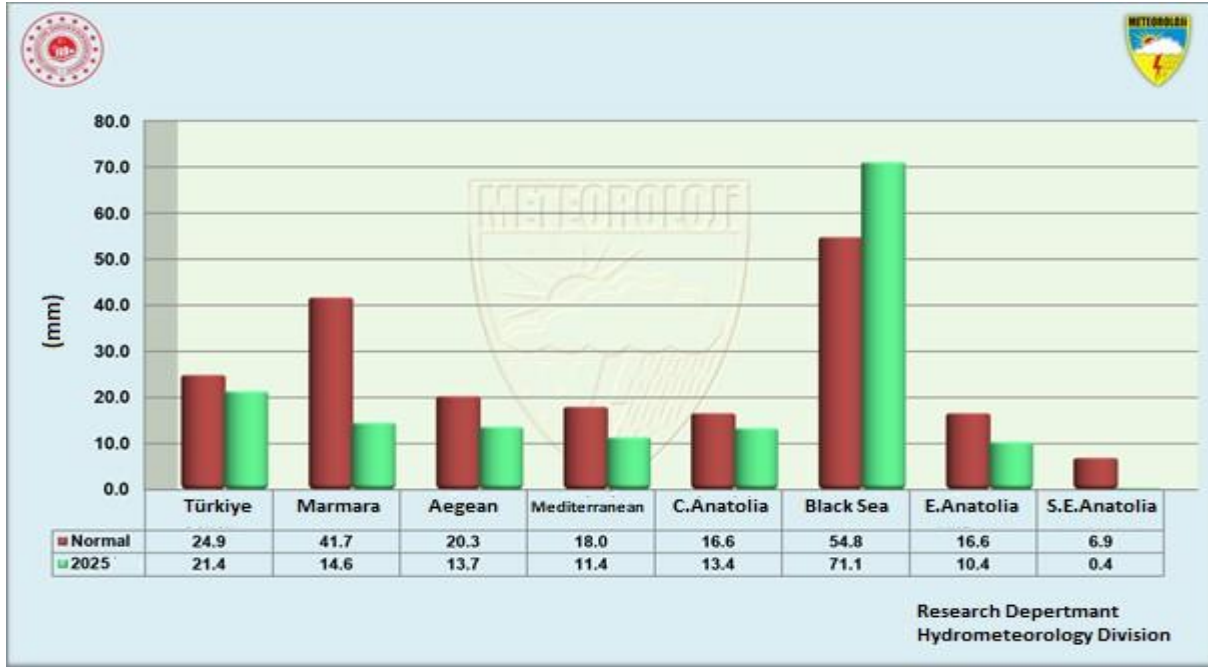


Figure 3. 3 Regional Precipitation Differences in September 2025 (Fig 3.3)

3.2. Rainy Days

The number of rainy days in September 2025 in Türkiye was above normal with 4.5 days (1991-2020 normal is 4.4 days). The number of rainy days were between 10-15 days in the Kastamonu, Sinop, Ordu, Giresun, Trabzon and Artvin. There was no rain South Eastren Anatolia, Hatay, Mardin, Kilis and Hakkari (Fig. 3.4).



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

4. Extreme Meteorological Events

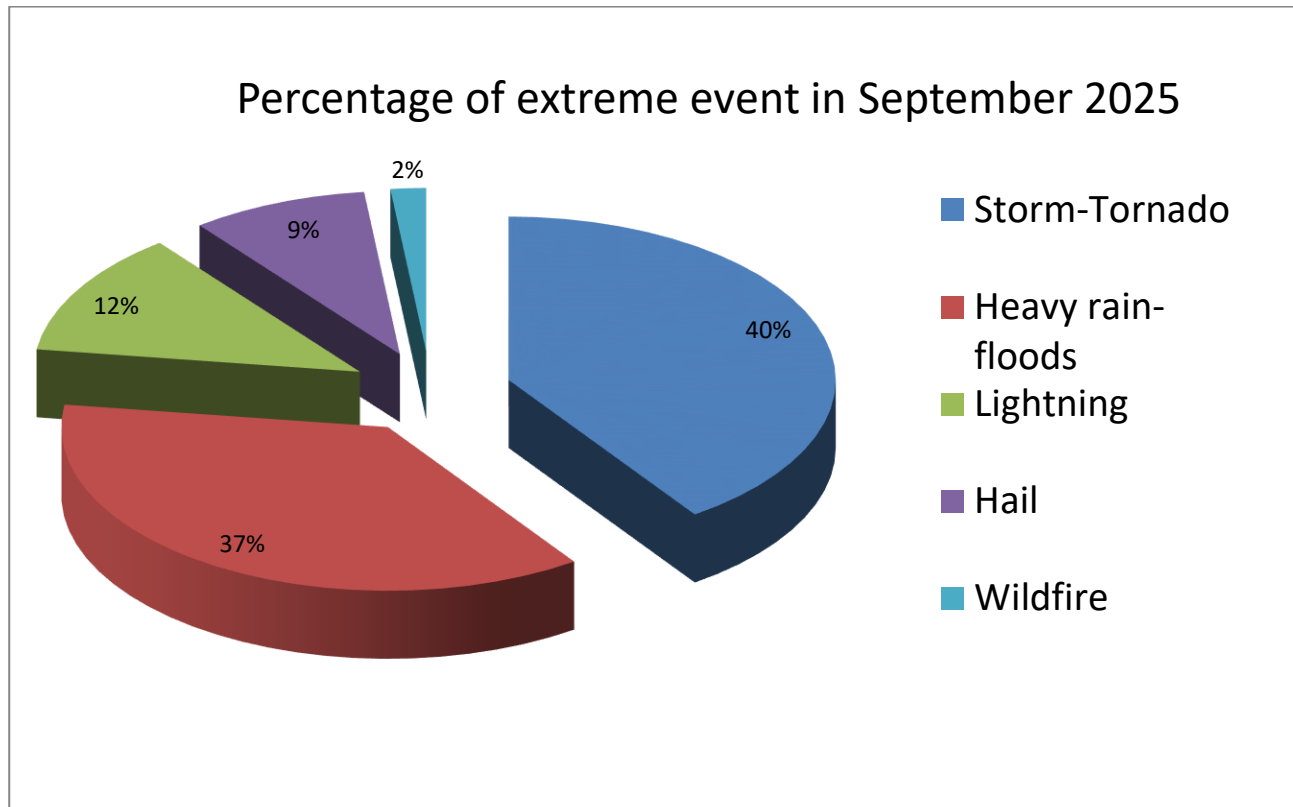


Figure 4.1. Percentage of extreme event in September 2025 (Url 3).

There are 57 extreme events have been reported in September 2025 in TSMS's Kardelen Database. Percentage of extreme events in September 2025 were storm-tornado (40%), heavy rain-flood (37%), lightning (12%), hail (9%), wild fire (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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