



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



State of the Climate in June 2024



Climate and Agricultural Meteorology Department
Research Department

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1. Introduction

The mean temperature of Türkiye in June 2024 was 25.4°C. This value was 3.6°C above the 1991-2020's normal (21.8°C).

Mean temperatures in June 2024 were above normal in whole Türkiye. The mean temperature of June 2024 has been recorded as the warmest June in the last 53 years.

Regional temperatures were above normal long-term mean (1991-2020) in all 7 regions.

The lowest temperature was observed in Göksun with 0 °C and the highest temperature was observed in Ceylanpınar with 47.8°C. There were 65 extreme maximum and 1 minimum temperature records.

Türkiye's areal mean precipitation in June 2024 was 11.9 mm. This value is approximately 65% below the 1991-2020's normal (33.6 mm).

During the June, rainfall were decreased of approximately 60% in Marmara region, west and central Black Sea, coast of Aegean Region, Antalya, Mersin, Adana, Osmaniye, Hatay, Gaziantep, Adıyaman, Şanlıurfa, Elazığ, Diyarbakır and Bingöl. On the contrary an increased of 20% compared to normal was recorded in coast of Giresun, Trabzon, Rize and Artvin.

In June, the highest precipitation was occurred in Rize with 97.0 mm and lowest recorded with 0.4 mm precipitation in İzmir.

Regional precipitation in June were below normal (1991-2020) in all regions.

The number of rainy days in June throughout Turkey was below normal with 3.4 days (1991-2020 normal is 6.5 days). The number of rainy days occurred in the range of 0-3 days in Aegean region, Antalya, Adana, Gaziantep, Kilis and Kahramanmaraş; in the range of 10-15 in north and eastern parts of Eastern Anatolia and east parts of Black Sea region.

There are 147 extreme events have been reported in June 2024 in TSMS's Kardelen Database. Percentage of extreme events recorded in June 2024 were heavy rain-flood (30%), hail (16%), storm-tornado (25%), landslide (2%), lightning (10%), snow (11%), fog (1%), avalanche (3%), heat/cold spell (1%) and wild fire (1%).

2. Temperature

The mean temperature of Türkiye in June 2024 was 16.9°C. This value was 0.2°C below the 1991-2020's normal (17.1°C) (Fig.2.1).

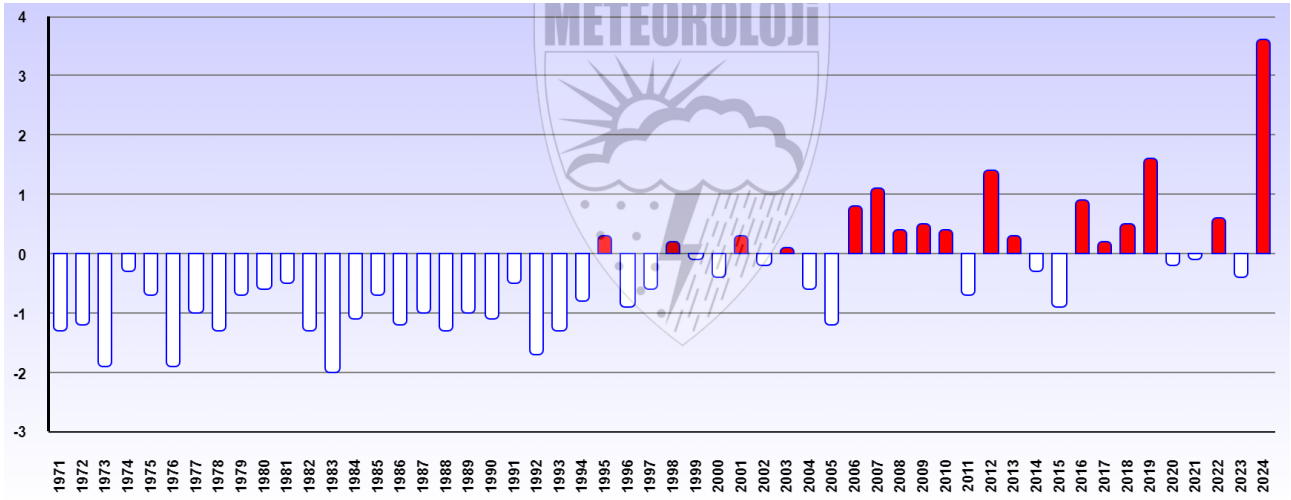
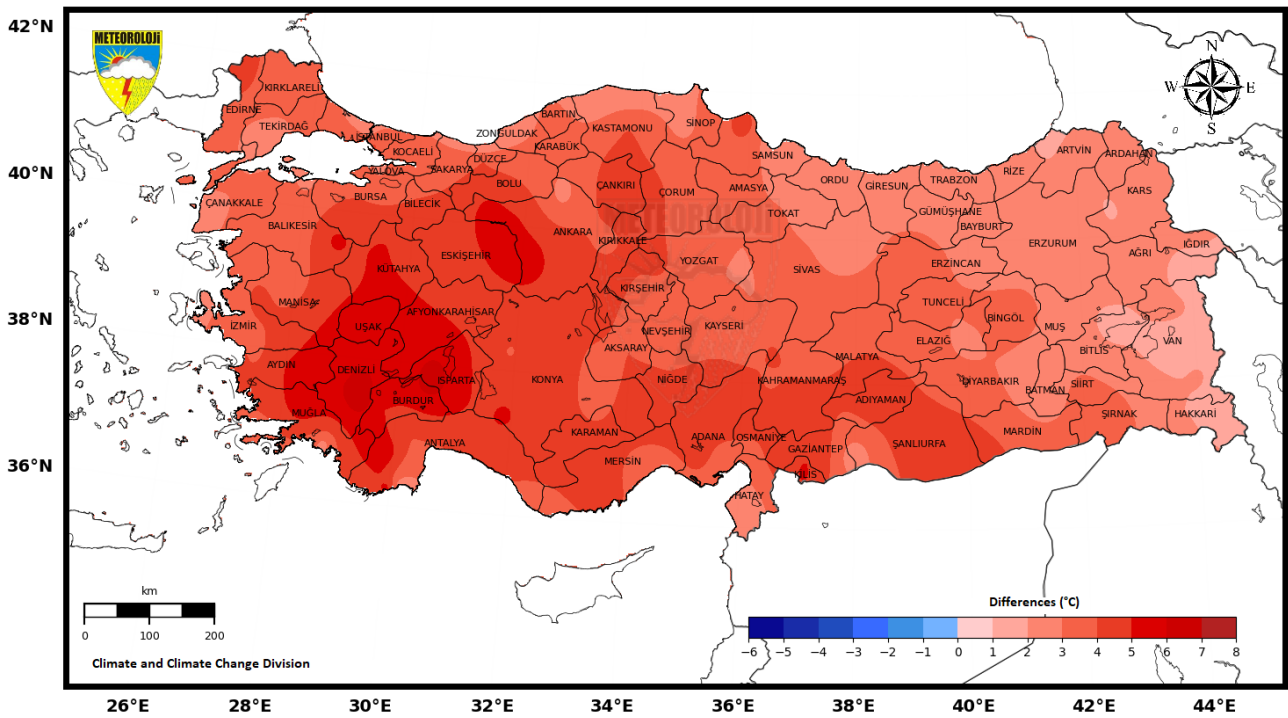


Figure 2.1 Monthly mean temperature anomalies in June (Url 1).

Mean temperatures in June 2024 were near normal in whole Türkiye (Fig.2.2).



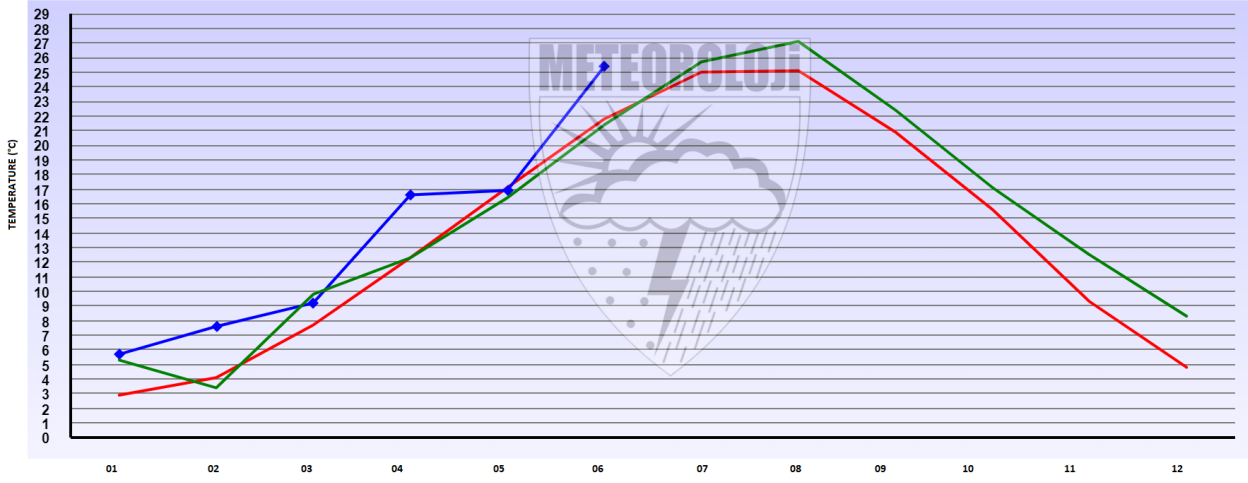


Figure 2. 3 The difference of the monthly mean temperature in 2024 from normal (1991-2020) (Url 1).

The monthly mean temperature of June was near its normal.

2.1. Regional Temperature

Regional temperatures were near normal long-term mean (1991-2020) in all 7 regions (Fig. 2.4).

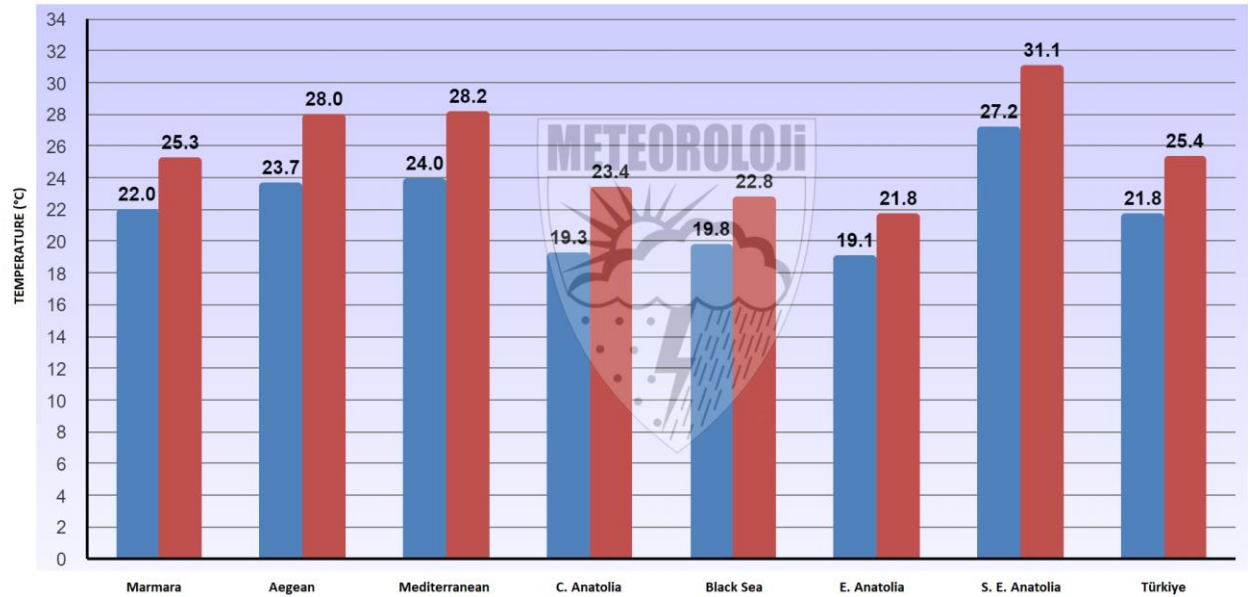


Figure 2. 4 Regional mean temperature differences in June 2024 (Url 1).

2.2. Extreme Temperature

The lowest temperature was observed in Erzurum with -2.9°C and the highest temperature was observed in Ceylanpınar with 39.6°C . There were no extreme maximum or minimum temperature records.

3. Precipitation

Türkiye's areal mean precipitation in June 2024 was 70.3 mm. This value is approximately 33% above the 1991-2020's normal (52.7 mm) (Fig. 3.1)

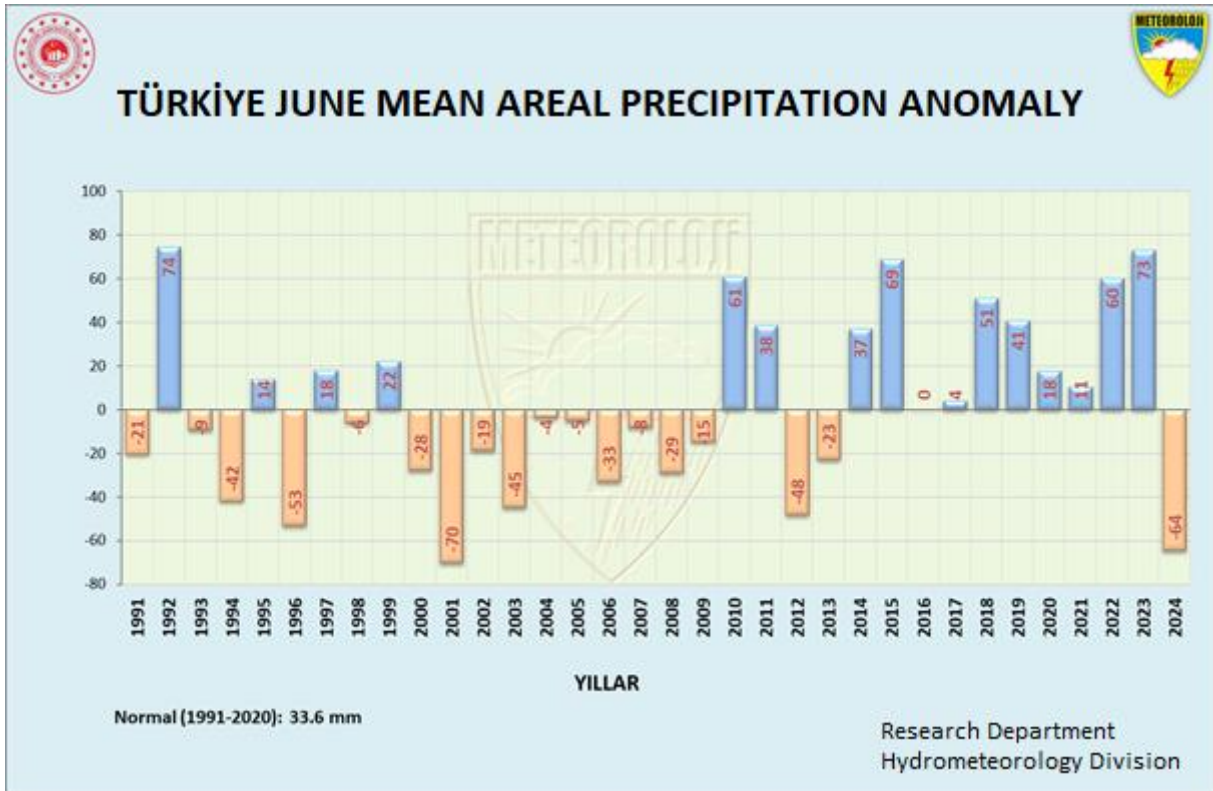


Figure 3. 1 Areal precipitation anomaly in June in Türkiye (Url 2).

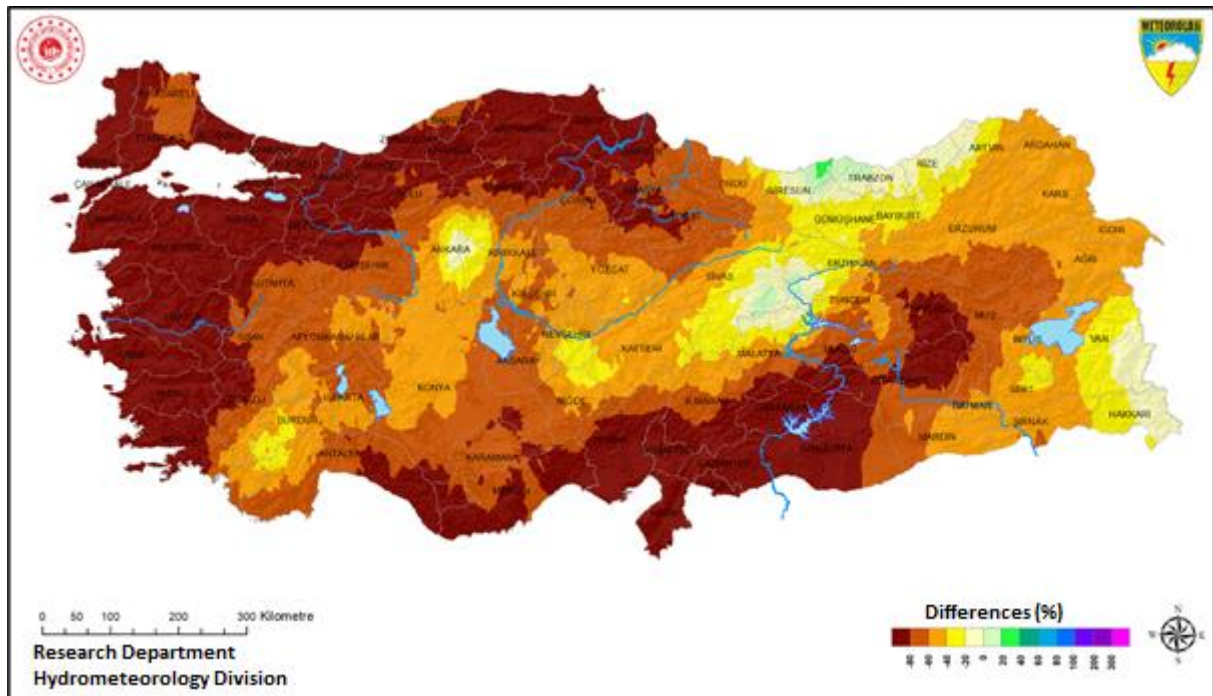


Figure 3. 2 Spatial distribution of mean precipitation anomalies in June 2024 (Url 2).

During the June, rainfall were decreased of approximately 40% in coast of Aegean, Edirne, Tekirdağ, Çanakkale, Balıkesir, Mardin, Mersin and Antalya. On the contrary an increased of 200% compared to normal was recorded in Ankara, Konya, Trabzon, Adana, Osmaniye, Hatay, Siirt and Şırnak (Fig. 3.2).

3.1. Regional Precipitation

Regional precipitation in June were above normal (1991-2020) in all regions except Marmara and Aegean regions (Figure 3.3).

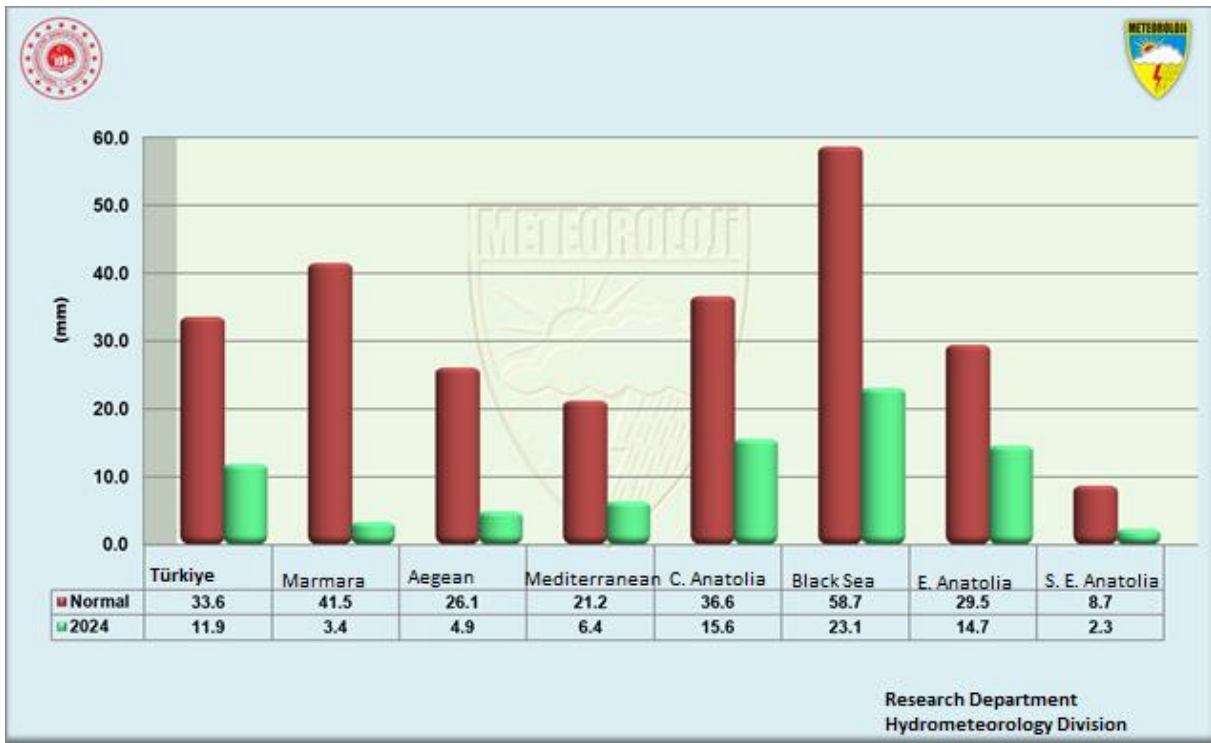


Figure 3. 3 Regional Precipitation Differences in June 2024 (Url 2).

3.2. Rainy Days

The number of rainy days in June throughout Turkey was above normal with 12.5 days (1991-2020 normal is 10.3 days). The number of rainy days occurred in the range of 0-5 days in Aegean region, west parts of Central Anatolia and Mediterranean region, Bolu, Bursa, Bilecik, Mersin, Şanlıurfa, Mardin, Bingöl, Siirt, Şırnak and Artvin; in the range of 10-15 in Edirne, Kırklareli, Samsun, Ordu, and Trabzon (Fig. 3.4).

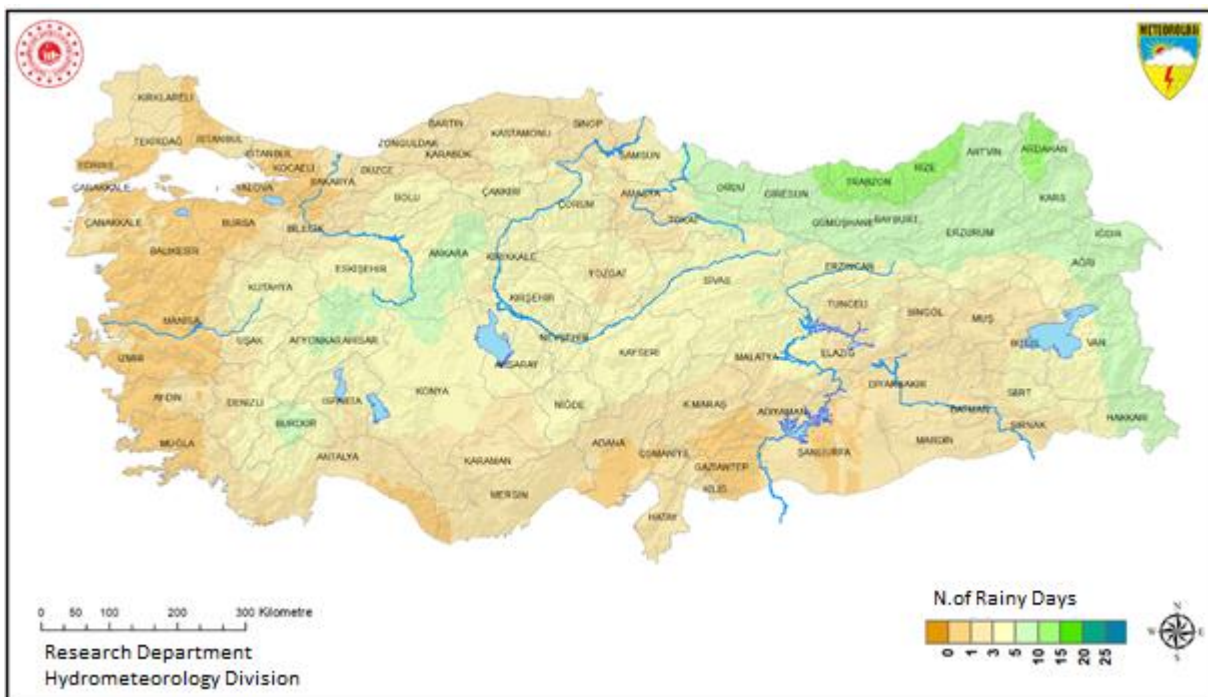


Figure 3. Number of rainy days in June 2024 (Url 2).

4. Extreme Meteorological Events

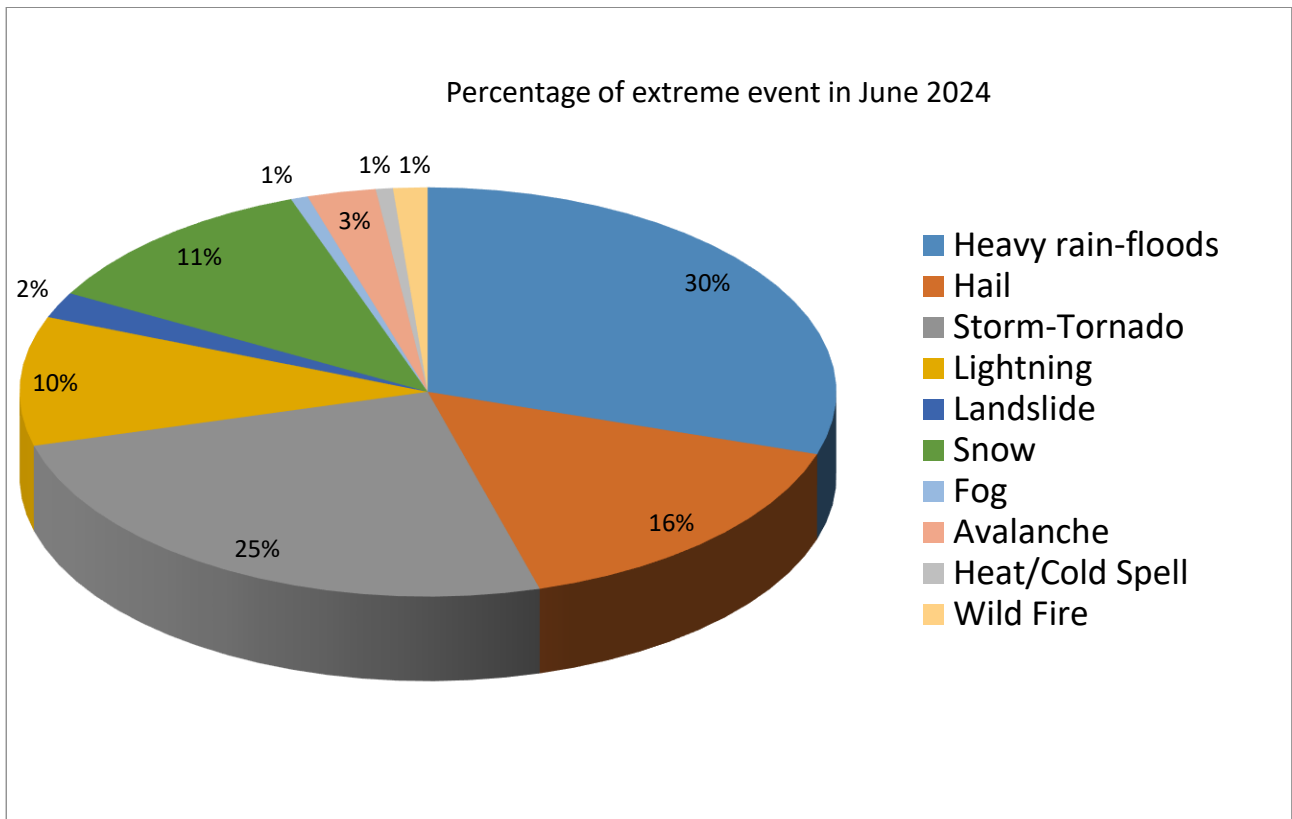


Figure 4.1. Percentage of extreme event in June 2024 (Url 3).

There are 147 extreme events have been reported in June 2024 in TSMS's Kardelen Database. Percentage of extreme events recorded in June 2024 were heavy rain-flood (30%), hail (16%), storm-tornado (25%), landslide (2%), lightning (10%), snow (11%), fog (1%), avalanche (3%), heat/cold spell (1%) and wild fire (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
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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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