

**Country: Turkey**

**Institute: Turkish State Meteorological Service**

**Name: Başak Yazıcı**

**E-mail: byazici@mgm.gov.tr**

**Assessment of the seasonal forecast for the summer, season**

**JJA 2014**

**1. SEECOF-11 Climate outlook for the 2014 summer season:**

According to SEECOF-11 Climate outlook, there is no clear signal appears for Turkey for the temperature of summer season, while for east of the country, it was expected to be observed slightly higher temperature than normal. Also, for the precipitation; there is no clear signal appears for summer season almost for all of the country.

**2. Analysis of the 2014 summer season:**

In **June** of 2014, the mean temperature were around normals most of the country. While it was below normals in some areas of inner western part of the country, and above normals north eastern coast cities. The lowest value of monthly mean minimum temperature, 12.9 °C, was measured in Sarıkamış, and the highest value of monthly mean maximum temperature, 31.1 °C in Cizre.

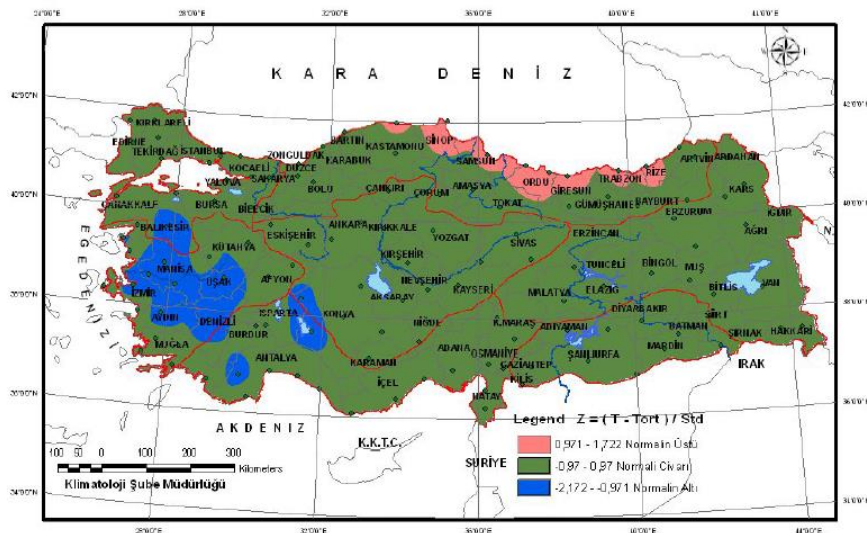


Figure 1. June-2014 Mean Temperature Anomalies

Generally, total mean precipitation in June 2014 was higher than the normals and previous June's. While June monthly mean total precipitation was 26,7 mm, it was 51,9 mm for June 2014 and the normal is 32,0 mm. The rainfall in June 2014 increased by %62,1 relative to normals and %94,6 relative to last June over almost whole country.



Figure 2. June-2014 Precipitation Anomalies

In **July** of 2014, the mean temperature was around normals in east, west and most of the south part of Turkey while the inland and northeastern coast was higher than normals. The lowest value of monthly mean minimum temperature, 17,0 °C, was measured in Sarıkamış, and the highest value of monthly mean maximum temperature, 34,7 °C in Cizre.

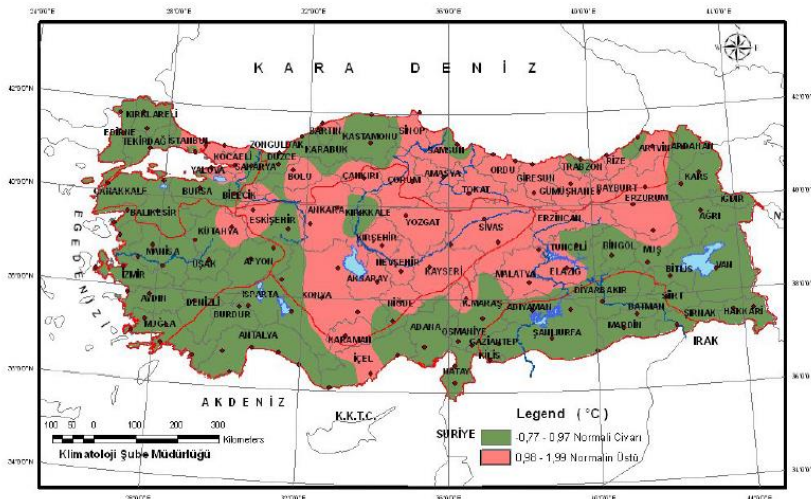


Figure 3. July-2014 Mean Temperature Anomalies

Total mean precipitation in July 2014 was higher than both the normals and last July's. Normals for July is 19,7 mm, mean precipitation for July was 24,8 mm. Monthly mean total precipitation of July 2013 was 16,3 mm. Rainfall has increased by 25,6% and 51,6% relative to normals and last July.



Figure 4. July-2014 Precipitation Anomalies

In **August** of 2014, the mean temperatures were around normals in the environs of Manisa, İzmir, Uşak, Afyonkarahisar and Denizli in east part of country, around Ankara and Kırklareli of inland, and also east and west part of south coast. It was above normals in the rest of the country. The lowest value of monthly mean minimum temperature, 18,1 °C, was measured in Ardahan, and the highest value of monthly mean maximum temperature, 34,3°C in Cizre.

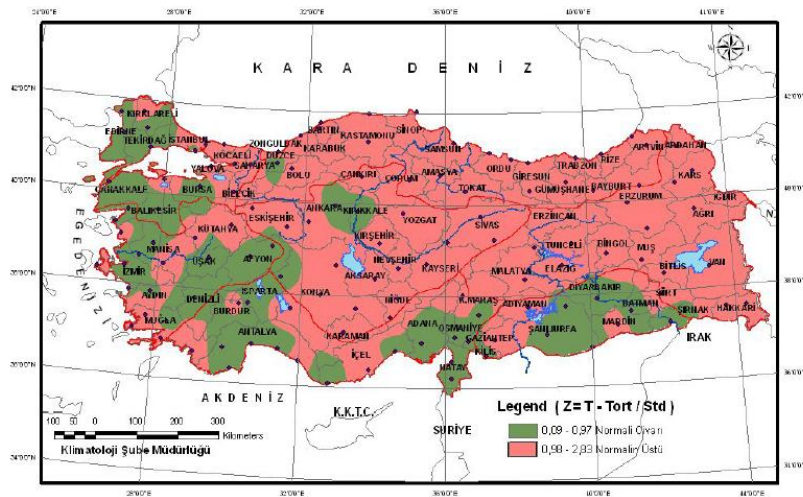


Figure 5. August-2014 Mean Temperature Anomalies

Total mean precipitation in August 2014 was higher than the normals and last August's. Monthly mean total precipitation of August was 24,3 mm while the normal is 17,3 mm and August 2013 mean total precipitation was 9,6 mm. The rainfall in August increased by 40,4% relative to normals and by more than 100% relative to last August.



Figure 6. August-2014 Precipitation Anomalies

### 3. High Impacts Events:

In **June** 2014, storms effected cities of Samsun, Zonguldak, Konya and Isparta where the trees and houses were damaged. Also heavy rain, effected in mostly west and north coast part of Turkey and also in inner and eastern areas too. Floods occurred and transportation became difficult in İzmir, Zonguldak, Çankırı. The most notable event was the occurrence of tornado in İstanbul, trees and houses were damaged.

In **July** 2014, heavy rain observed in Marmara, Aegean region and north western part. Flood occurred and hail observed in Marmara.

In **August** 2014, heavy rain and storm effected Marmara, Aegean region and some areas of Black sea region. Hail occurred and affected the agriculture in Aegean region.

### 4. Verification of the SEECOF climate outlook for the 2014 summer season:

The table below is a verification summary of the climate outlook for the JJA 2014.

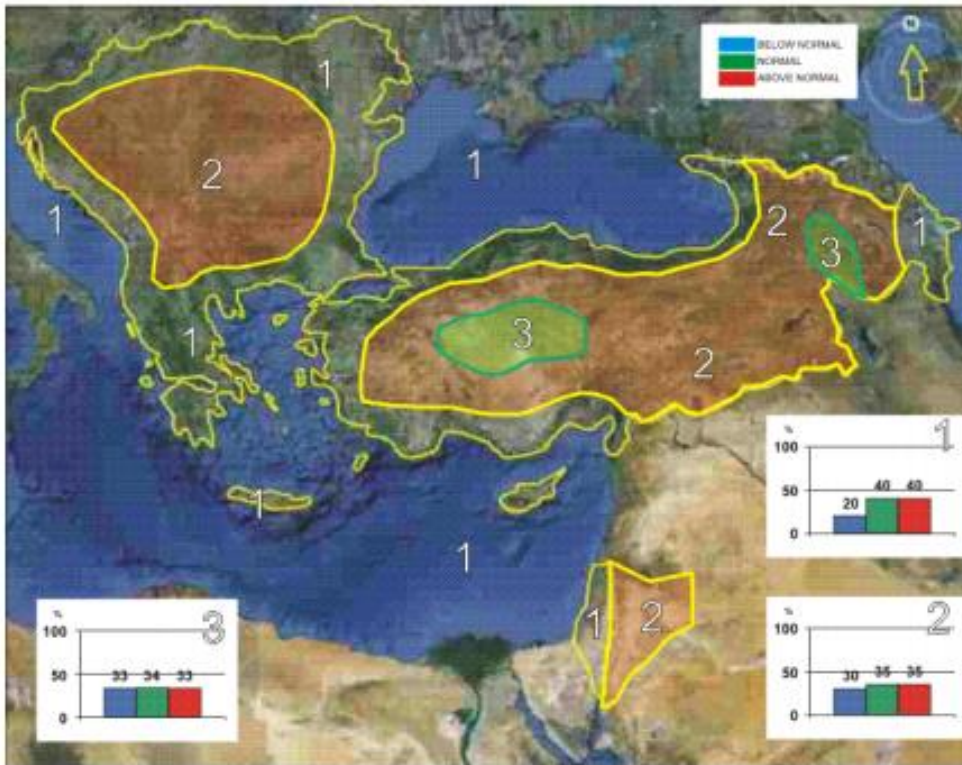


Figure 7. Graphical presentation of 2014 summer temperature outlook

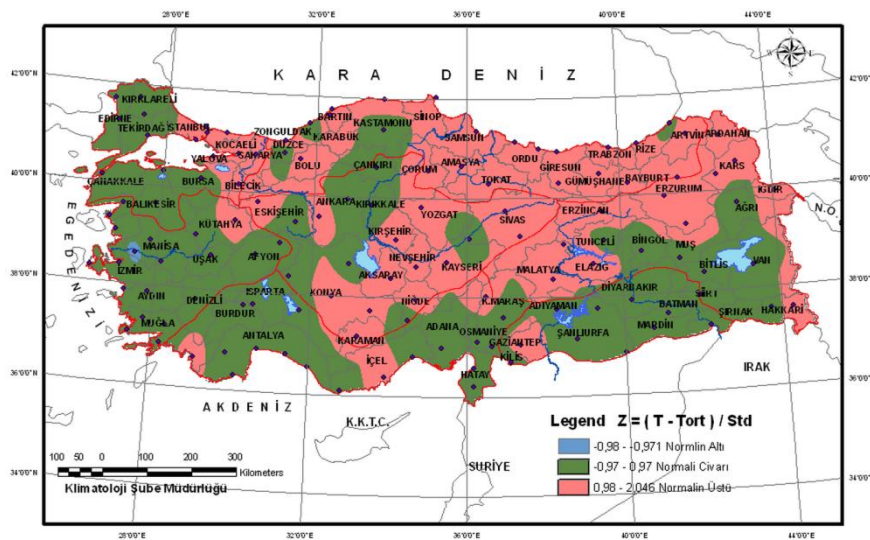


Figure 7. 2014 Summer Season Mean Temperature Anomaly of Turkey

Mean temperature was around normal in the southern part, north western part, Aegean region, and also in Çankırı, Ankara, Kırıkkale, Aksaray, Kayseri, Zonguldak and Ardahan. It was above normal in the rest of the country. Mean temperature anomalies was expected 20% below normal, 40% around normal and 40% above from normal for the coastal part of the

country; 33% below normal, 34% around normal and 33% above from normal for the inland of the country, and 30% below normal, 35% around normal and 35% above from normal for the rest of the country by SEECOF experts forecast.

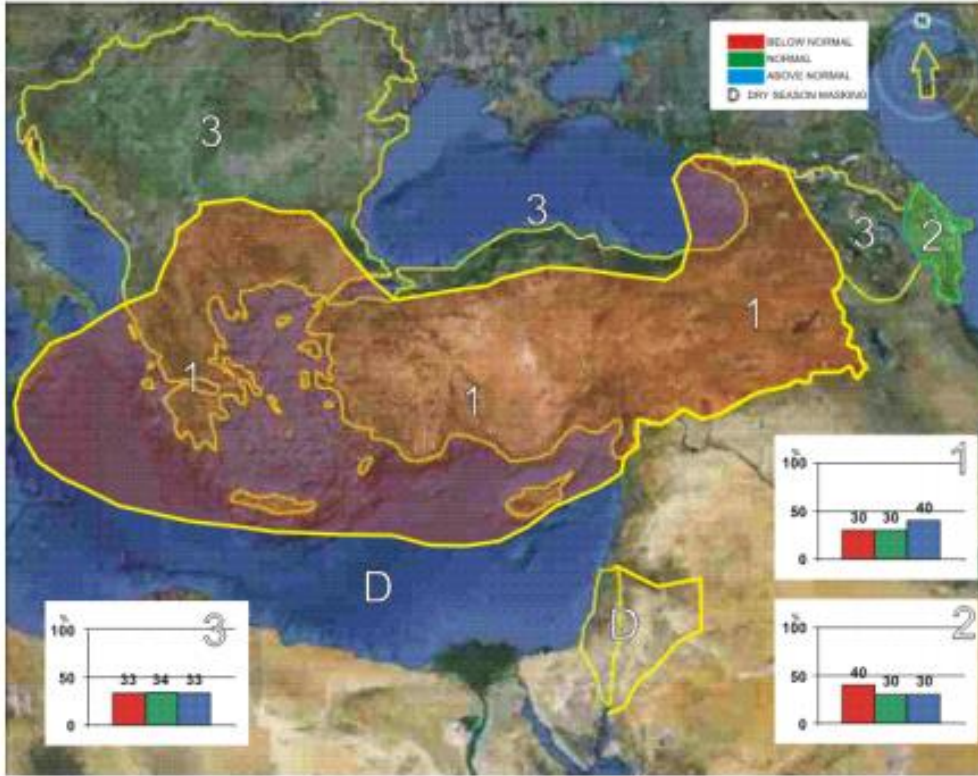


Figure 8. Graphical presentation of 2014 summer precipitation outlook

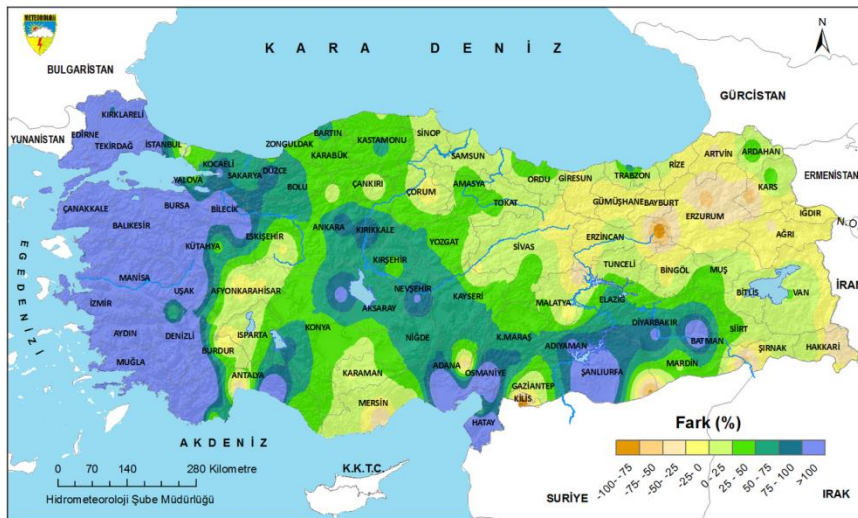


Figure 9. 2014 Summer Season Mean Precipitation Anomaly of Turkey

Total precipitation was above normal in west part of the country and also in inner land and southern part except from Eskişehir, Afyonkarahisar, Isparta, Burdur, Mersin Karaman Antalya, and Kilis. It was significantly below normal in Bayburt and Kilis, and it was around normal in the rest of the country. According to the SEECOF experts' forecasts, no clear signal appeared for summer season for most of the country. For east of the country, precipitation was expected to be slightly higher than normal. According to SEECOF experts forecast precipitation was expected to be 33% below normal, 34% around normal and 35% above from normal for the north coastal part country, 30% below normal, 30% around normal and 40% above from normal for the rest of the country