

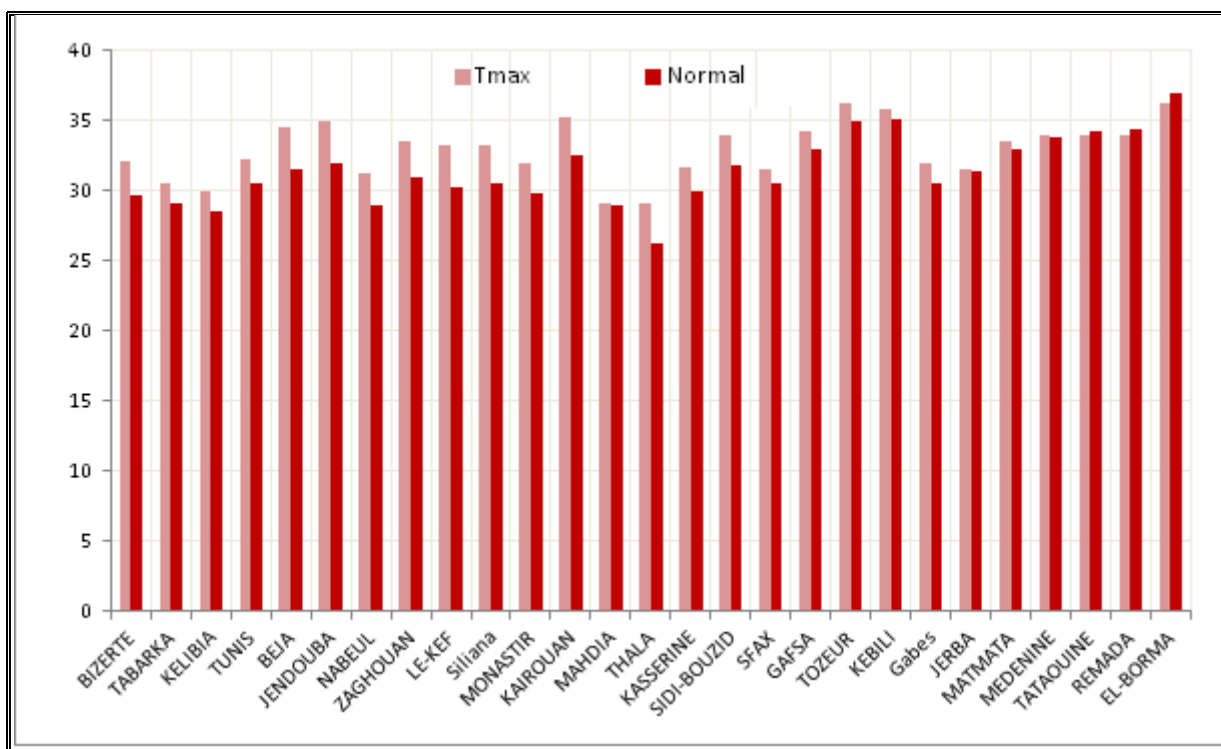
Monthly Climatological Report_ September 2023 in Tunisia

After the hot and dry month of August, most regions of the country witnessed a relative rise in temperature during the month of September 2023. The general average temperature (27 main stations) reached 27.1 °C and exceeded the reference average (1991-2020) by +1.2 °C, making this month ranked **the fifth hottest September** since 1950.

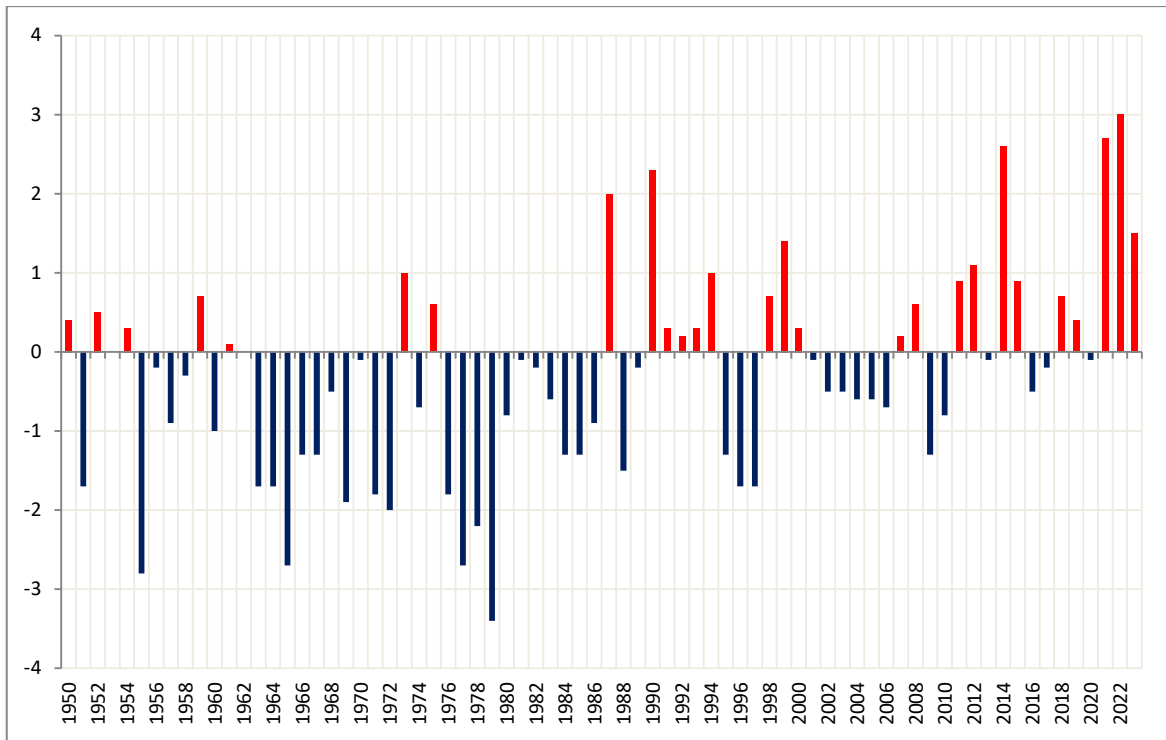
As for rainfall, the total (27 main stations) for the current month of September reached 35.5 mm, which represents only 3.5 % of the reference average for the month (1006.1 mm). The decrease reached 96.5 %, and thus September of this year is classified as **the driest** since 1970 and second only to rain September 1964 (15.3 mm) since 1950.

- Maximum temperature:

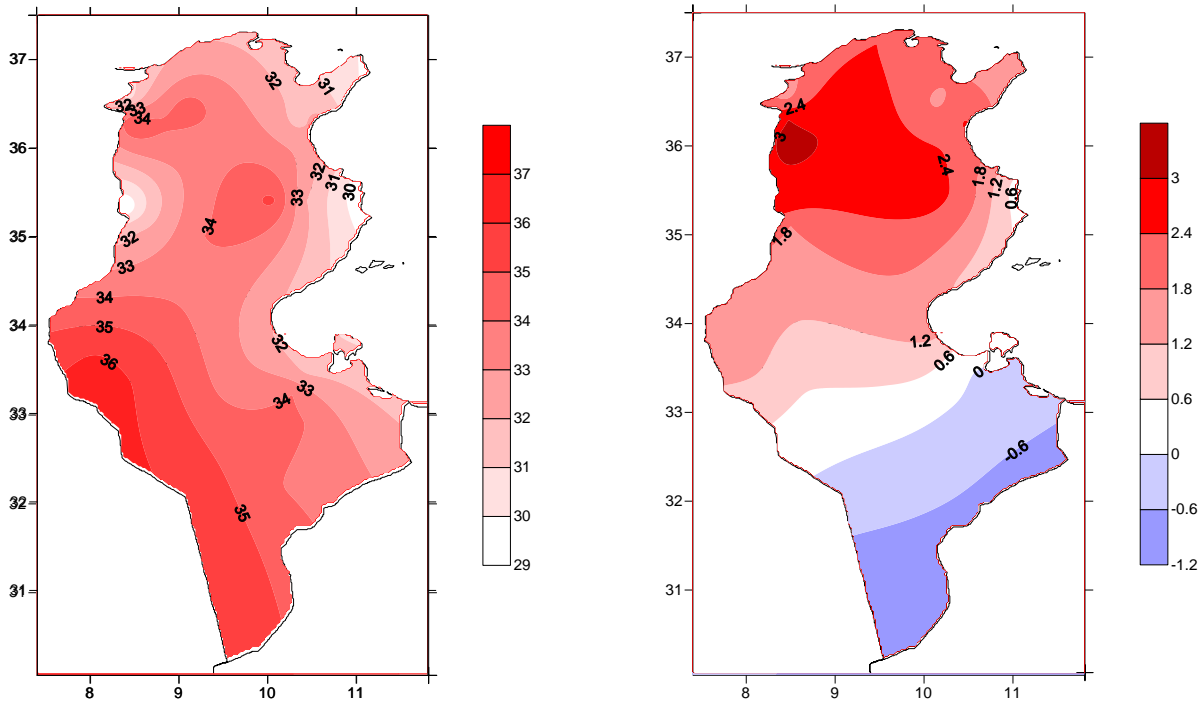
Maximum temperature averages ranged from 29.1 °C in Mahdia to 36.3 °C in Tozeur, and were above the reference averages in most regions, and the differences ranged from +0.1 °C in Djerba to +3.0 °C in Beja and Jendouba. The absolute maximum temperature reached 43.8°C in Gabes on September 22, 2023. As for the general average maximum temperature, it reached 32.9 °C and exceeded the reference average (31.4 °C) by a difference of (+1.5) °C.



Comparison of maximum temperatures to normal of September



Deviation from normal (1991-2020) of maximum temperature since 1950 : Month of September

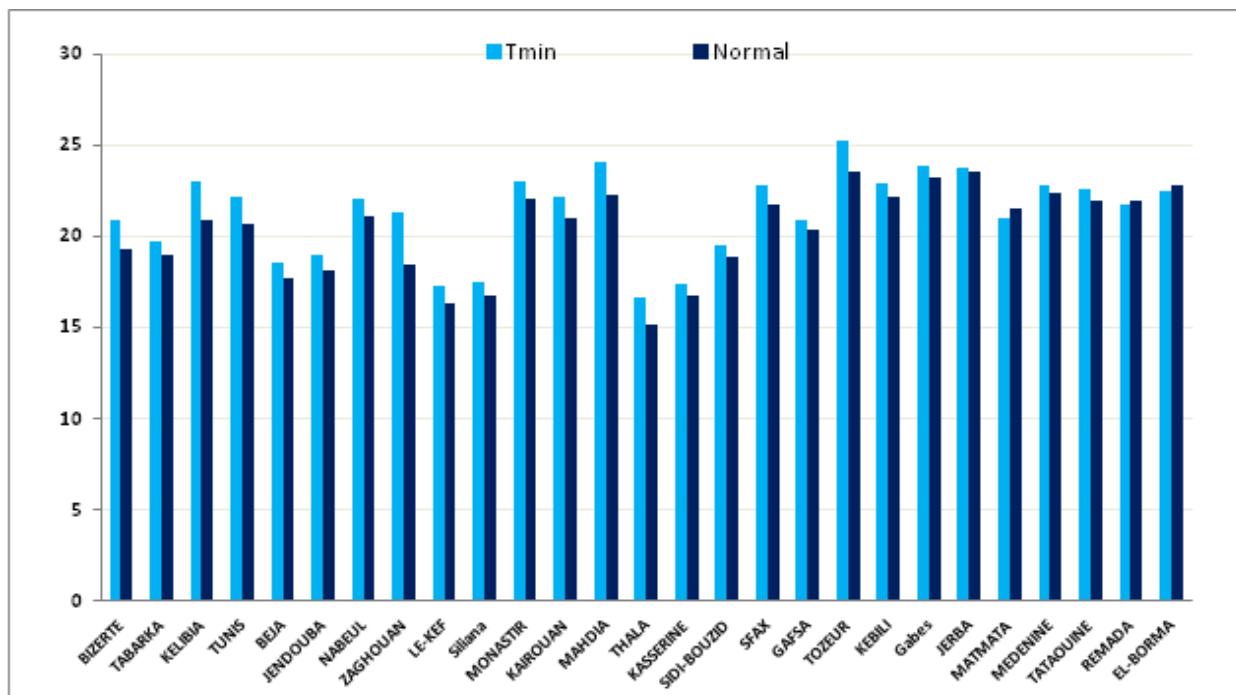


Maximum temperature (°C) _ September 2023

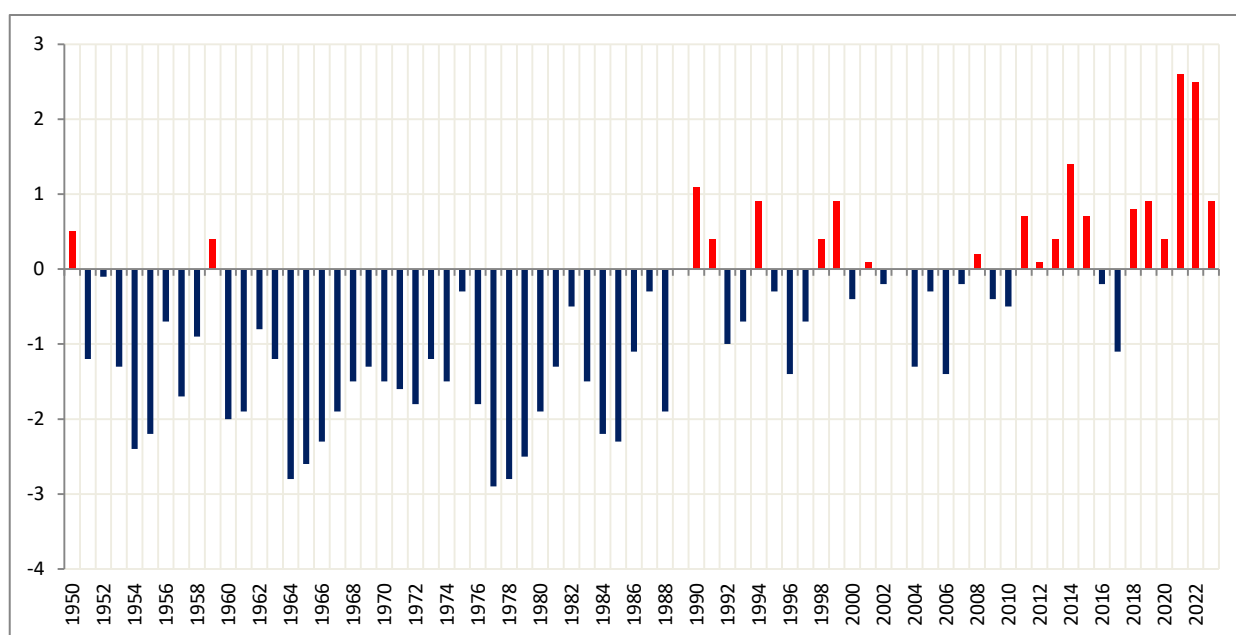
Deviation from normal of max T (°C)

- Minimum temperature:

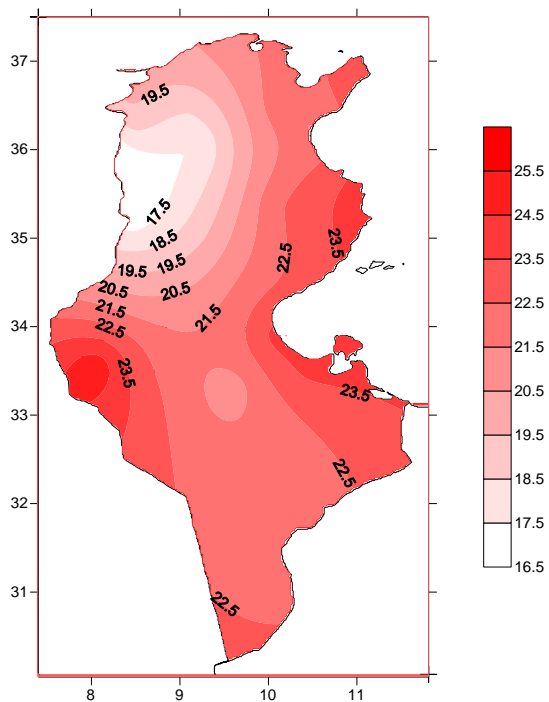
Average minimum temperatures ranged from 16.6°C in Thala and 25.2°C in Tozeur and were above the reference averages. The differences varied from +0.4°C in Djerba to +3.0°C in Zaghouan. The absolute minimum temperature reached 9.4°C in Thala on September 26, 2023. The general average minimum temperature reached 21.3°C and it was higher than the reference average (20.4°C) with a difference of +0.9°C.



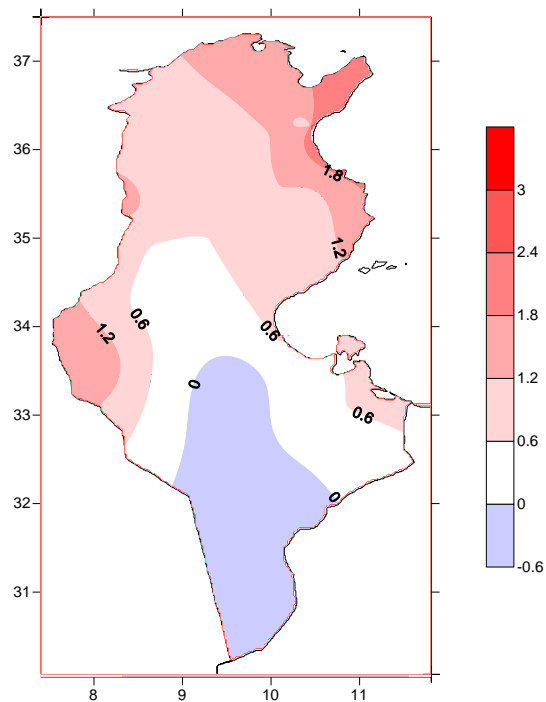
Comparison of minimum temperatures to normal of September



Deviation from normal (1991-2020) of minimum temperatures since 1950 : Month of September



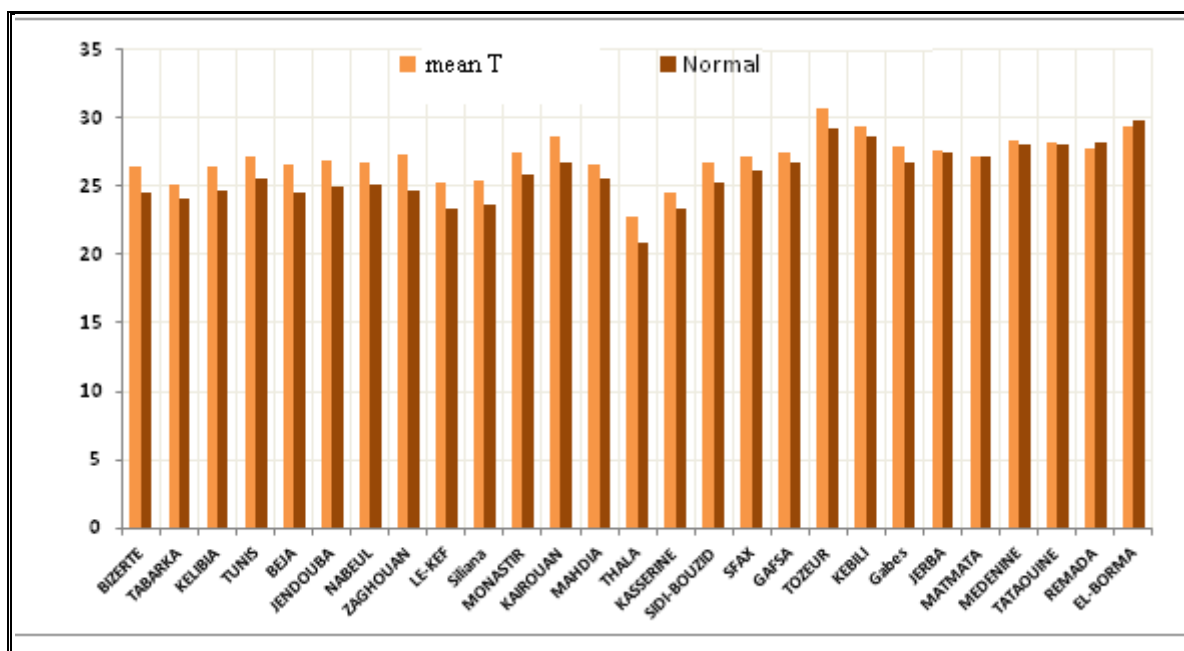
Minimum temperature (°C)_September 2023



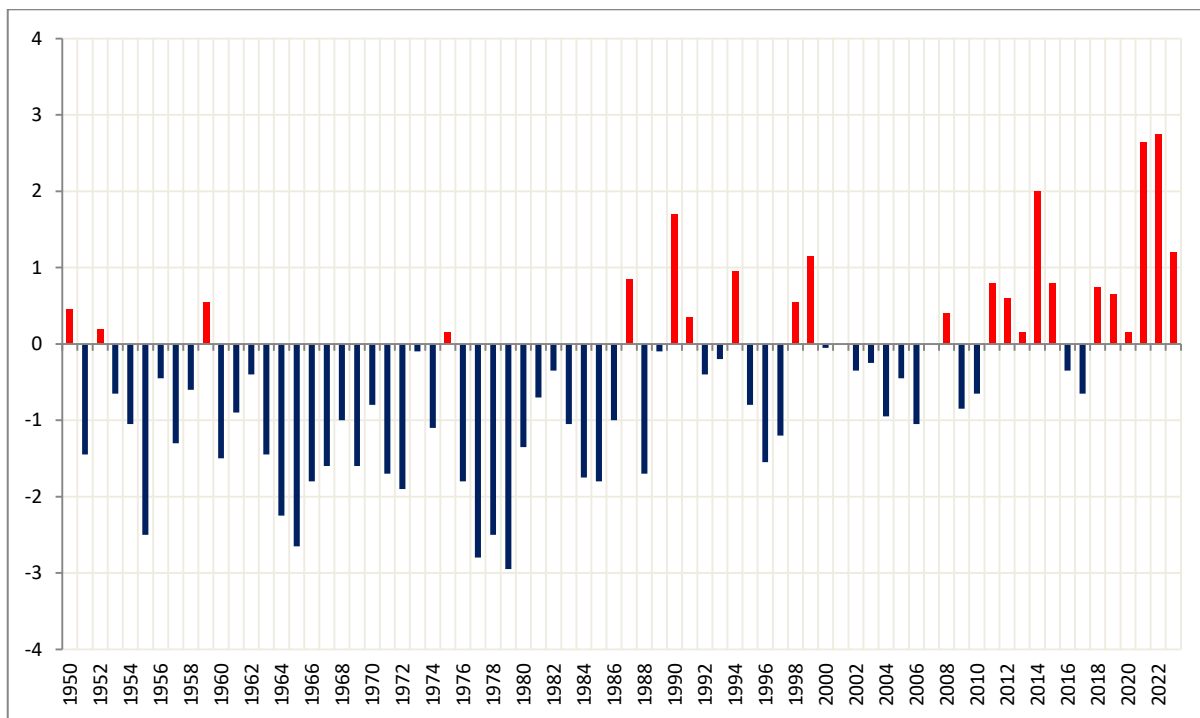
Deviation from normal of min T (°C)

- Mean temperature :

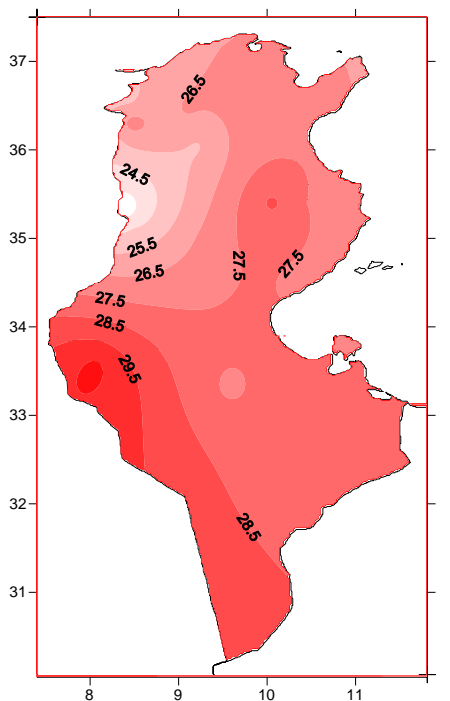
Average temperatures varied between 22.9°C in Thala and 30.8°C in Tozeur. As for the national average temperature (27 main stations), it reached 27.1°C, higher than the reference average (25.9°C) by +1.2°C. With this difference September 2023 is ranked the 5th warmest September since 1950 behind September 1990 (27.6°C), 2014 (27.9°C), 2021 (28.6°C) and September 2022 (28.7°C).



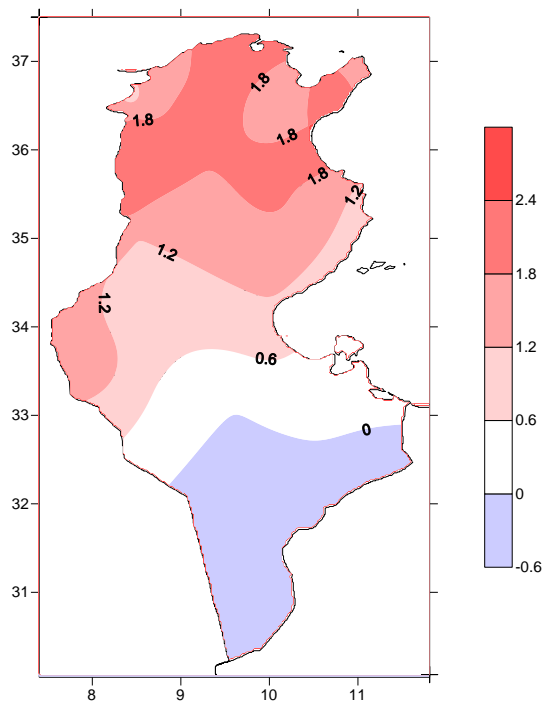
Comparison of average temperatures to normal for the month of September



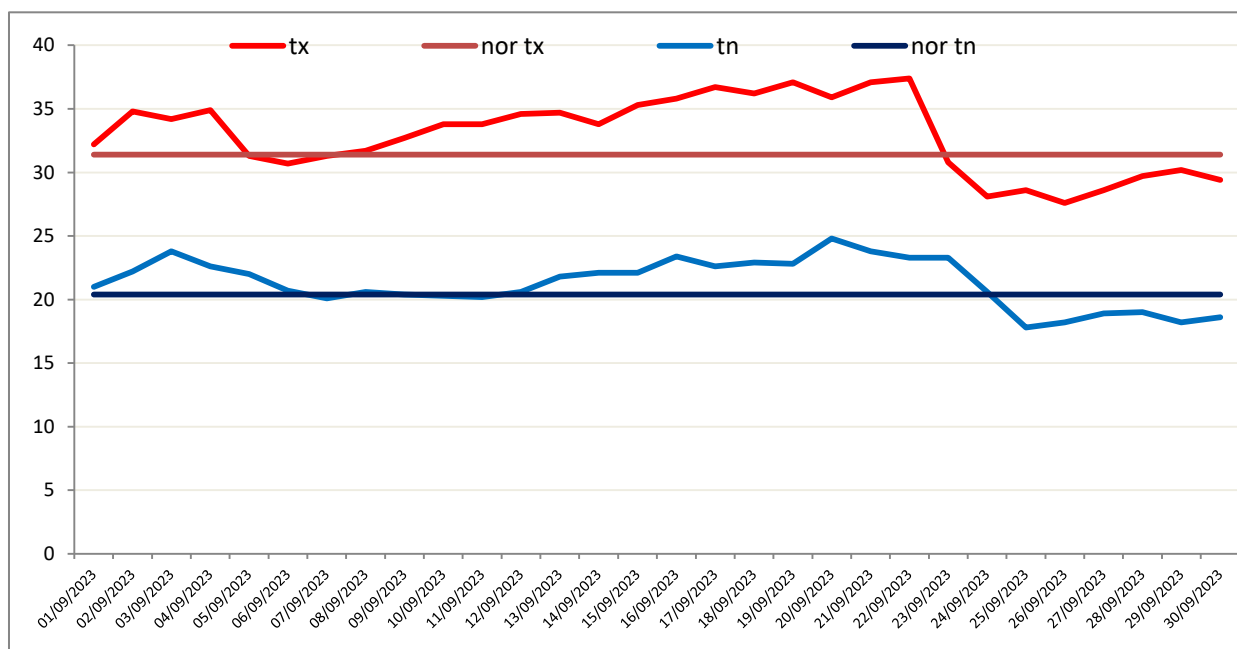
**Deviation from normal 1991-2020 average temperatures
since 1950 : Month of September**



Température moyenne (Tmoy)



Ecart à la normale de Tmoy



Evolution of daily temperatures in Tunisia compared to the September normal

The start of this dry season is quite exceptional. Maximum and minimum temperatures were often very high. From the 24th of the month temperatures dropped and remained below normal until the end of the month.

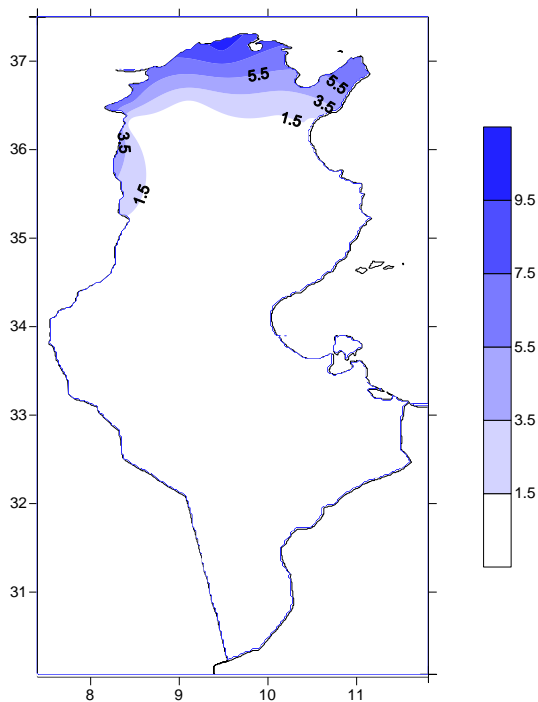
- The precipitations :

Regarding the cumulative rainfall for the month of September 2023, all regions experienced a notable decrease in rainfall, ranging in the northern regions from 75% in Ain Draham to 100% in Zaghouan, Béja, Jendouba and Siliana.

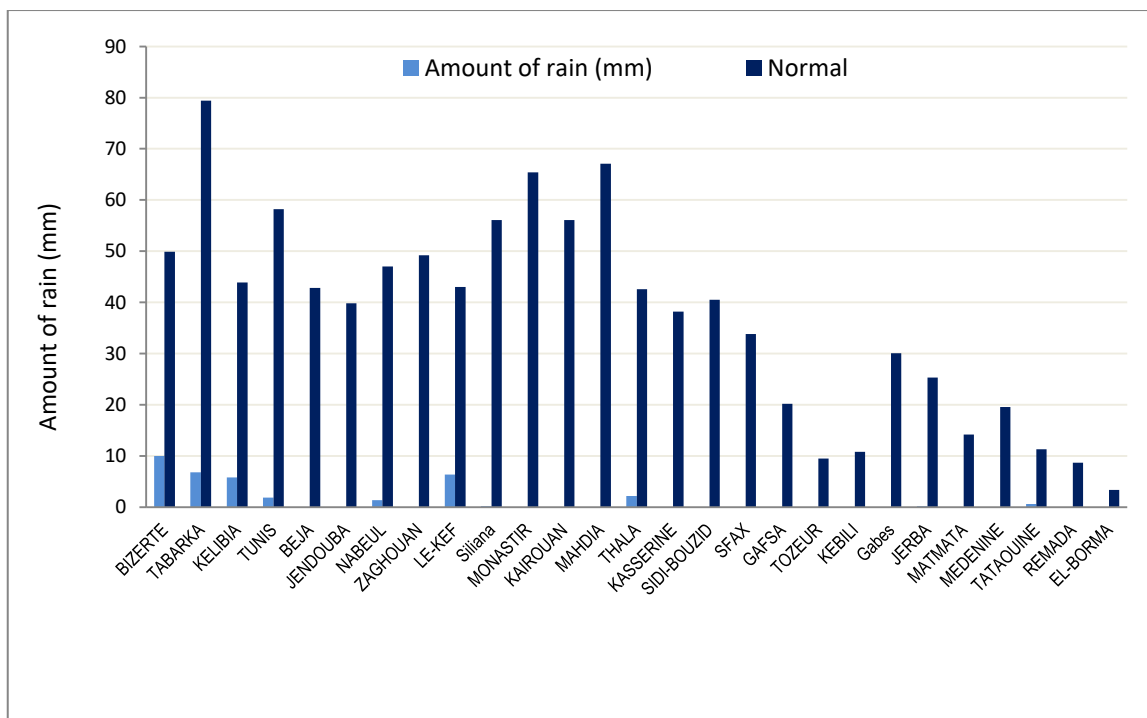
As for the central regions, rains did not fall throughout the month in most regions, with the exception of Thala and Mahdia, where some scattered rains fell in small quantities, and the percentage decrease reached 97 % in Thala and 98% in Mahdia.

As for the south, most regions experienced a serious shortage, and the percentage of deficiency varied from 95% in Tataouine to 100% in the rest of the regions, with the exception of Gabès where some rain fell and the percentage decrease reached 59%. %.

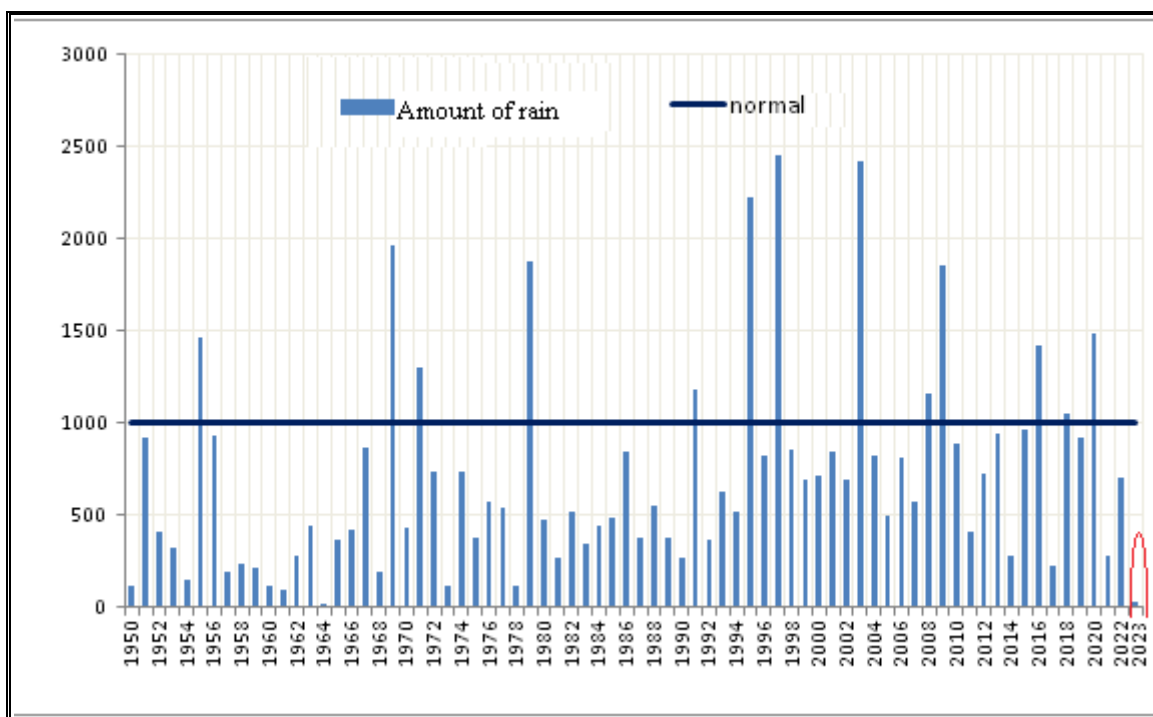
Overall, September 2023 is considered the driest month (monthly total in major stations reached 35.5 mm) since 1970 and ranked second after September 1964 since 1950 (total 15.3 mm). It should be noted that the reference average total (1991-2020) of precipitation amounts for the same stations amounts to 1006.1 mm.



Total monthly rainfall (mm)_ September 2023



**Comparison of monthly precipitation totals with
the reference normals of the accumulations**



Total monthly precipitation since 1950 in Tunisia : Month of September

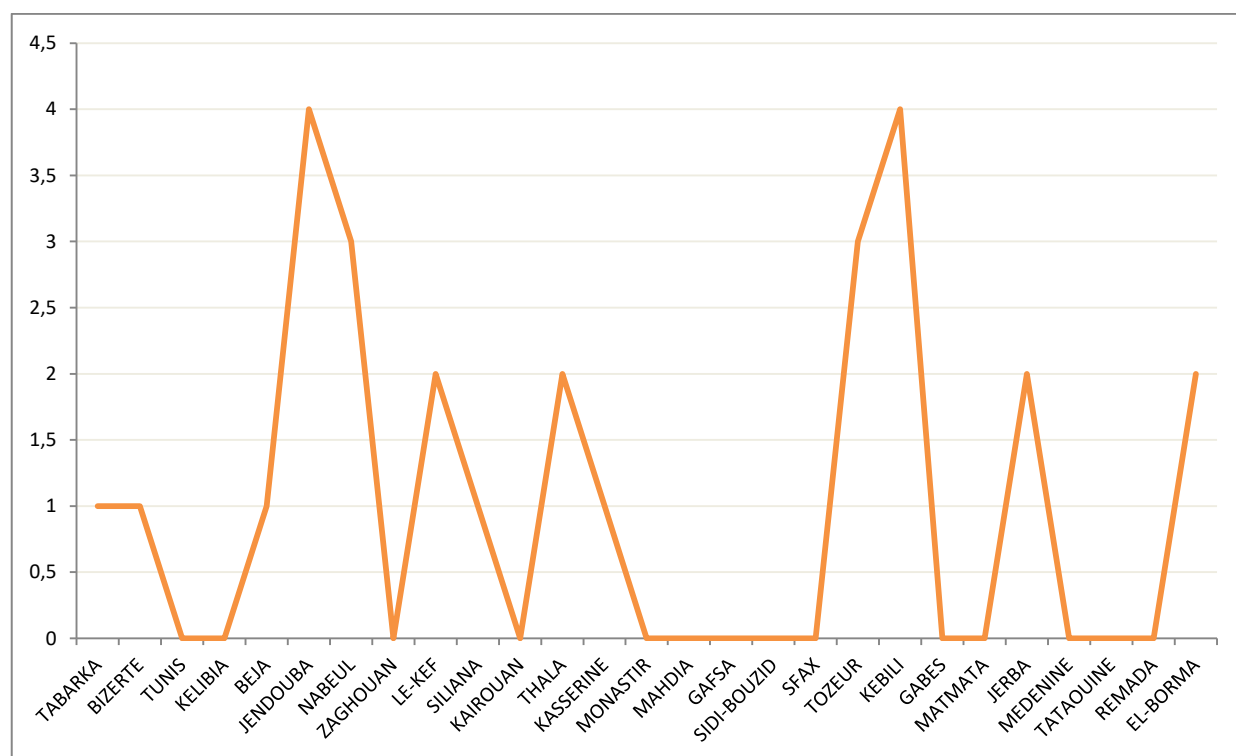
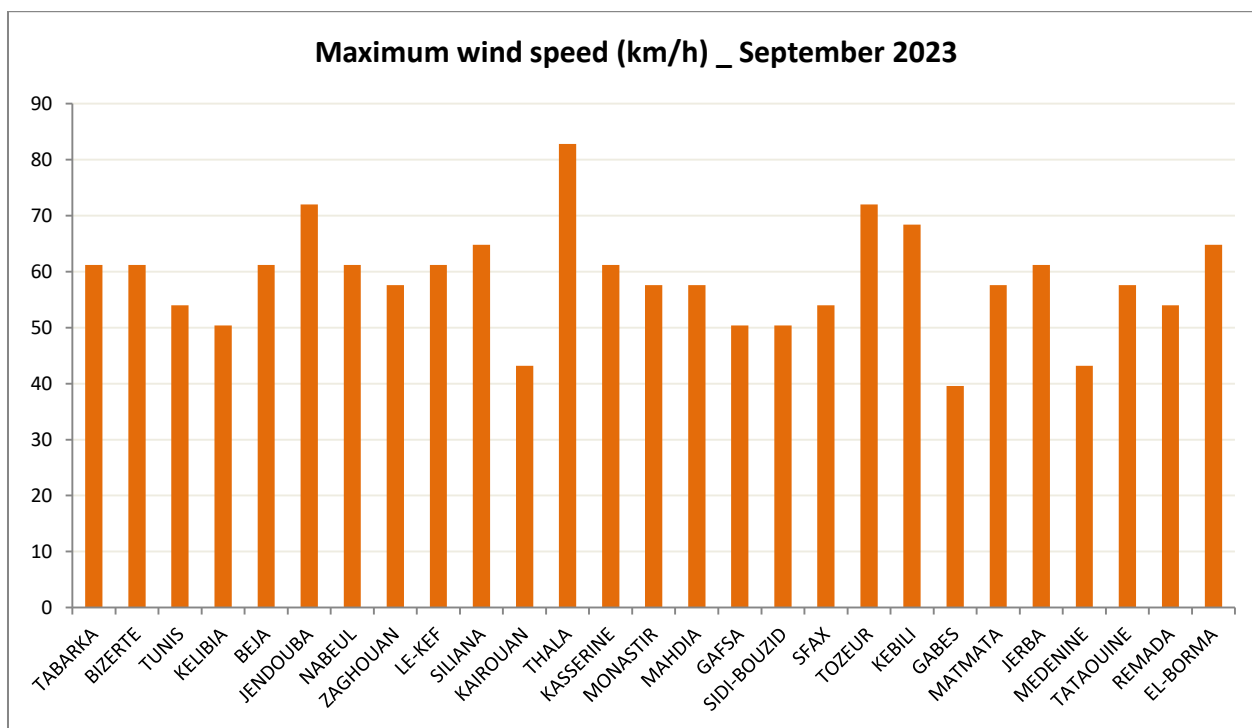
- The winds:

Concerning the winds, they were generally weak to moderate, and their speed increased during the period from September 2 to 6, 2023 in most regions, and their maximum speed varied from 54 km/h in Medenine to 72 km/h in Tozeur.

The wind speed also increased on September 15, 16 and 17 in the northern regions, and its maximum speed varied from 61 km/h in Tabarka to 76 km/h in Kef. The winds were also strong on September 22, 23 and 24 in the northern and central regions and their maximum speed varied between 54 km/h in Remada and 83 km/h in Thala.

The wind speed also increased on September 27, 2023 over the central and southern regions, and the maximum speed varied between 54 km/h in Sidi Bouzid and 61 km/h in Djerba.

(Figure n°01 and Figure n°02):



Number of days with wind speed > 60km/h _ September 2023
