



FORTNIGHTLY DROUGHT WATCH BULLETIN

(16th to 31st October, 2024)



Pakistan Meteorological Department

National Drought Monitoring Centre

Ph No 051-9250598

1. Actual Rainfall Analysis during Second Fortnight of October, 2024

The light to moderate rainfall was reported over Kashmir, Gilgit Baltistan, Khyber Pakhtunkhwa and Potohar region while rest of the country remained dry. The Gilgit Baltistan, upper Khyber Pakhtunkhwa and northern Kashmir received major amounts of rainfall. The spatial distribution of the rainfall is shown in Figure No.1 and the chief amounts of rainfall recorded at distinct stations of Pakistan during the period 15-31 October, 2024 are shown in Table-1 below;

Rainfall Table					
S. No	Station	Rainfall (mm)	S. No	Station	Rainfall (mm)
1.	Astore	25.6	6.	Islamabad, Airport	9.2
2.	Dir	18.0	7.	Pattan	9.0
3.	Skardu	16.4	8.	Muzaffarabad, Airport	7.7
4.	Balakot	11.0	9.	Murree	7.0
5.	Muzaffarabad, City	10.0	10.	Kohat, Airbase	5.0

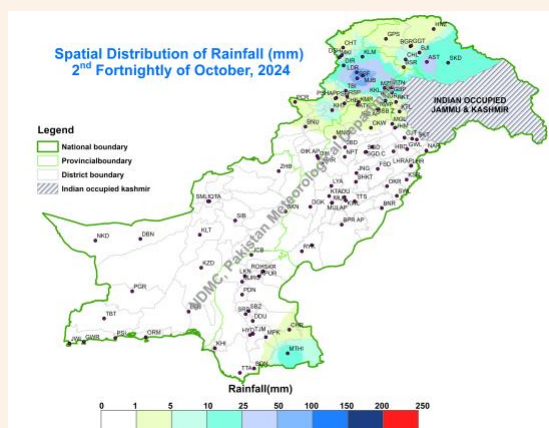


Figure 1: Spatial distribution of rainfall (mm)

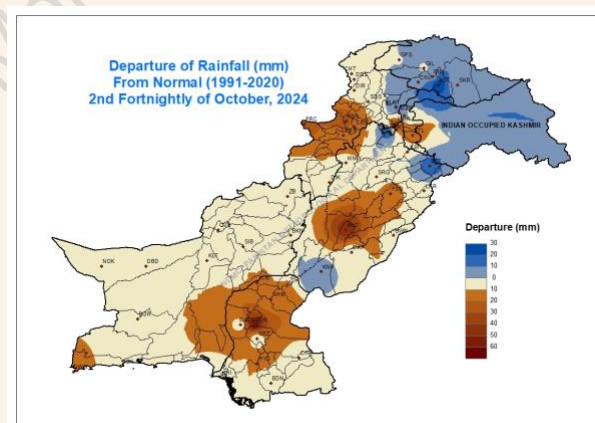


Figure 2: Departure of rainfall (mm)

2. Departure of Rainfall during Second Fortnight of October 2024

Figure 2 depicts the departure of rainfall from the Normal (1991-2020) during the fortnight. Below normal rainfall was received over most parts of the country. However, Gilgit Baltistan, Murree, Sialkot and Khanpur received above normal rainfall.

Normal (1991-2020) distribution of rainfall (mm) during the fortnight of October rainfall is shown in Figure 3. The normal rainfall across most of the Pakistan ranges from 1 to 10 (mm). Whereas the normal for Kashmir, Khyber Pakhtunkhwa and Potohar ranging from 11 to 60 (mm).

Normal distribution of temperature is shown in Figure 4 during the second fortnight of October 2024, using the mean temperature data for the period 1991-2020.

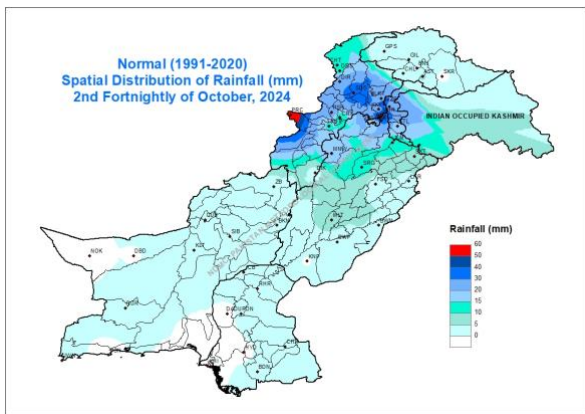


Figure 3: Normal distribution of rainfall (mm)

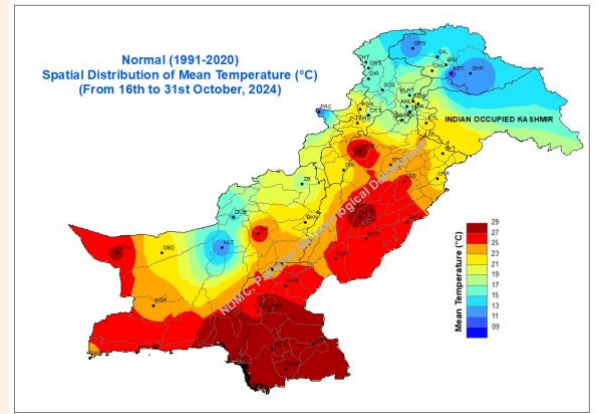


Figure 4: Normal distribution of mean Temperature (°C)

3. Mean Temperature Analysis during the Second Fortnight of October 2024

The spatial distribution of mean Temperature (°C) during the second fortnight of October is shown in Figure 5. Highest mean temperature has been recorded at southern Punjab, Sindh and Turbat (Baluchistan), while moderate temperatures were observed in the remaining parts of the country.

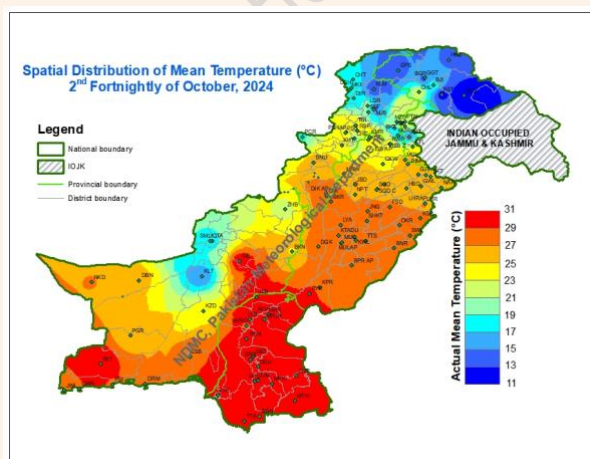


Figure 5: Spatial distribution of Mean Temperature (°C)

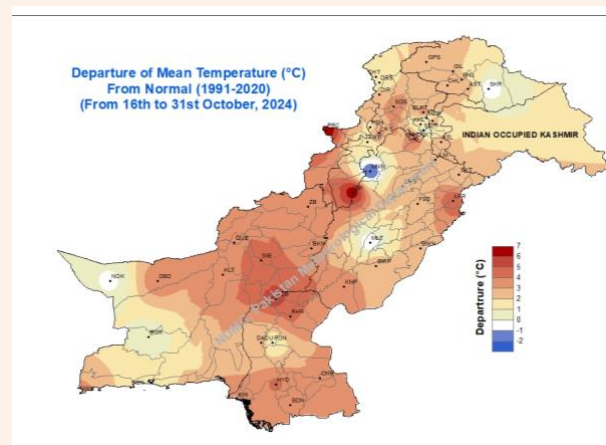


Figure 6: Departure of Mean Temperature (°C) from Normal (1991-2020)

4. Departure of Temperature during the Second Fortnight of October 2024

The Figure 6 illustrates the departure of mean temperature from normal (1991-2020) during second fortnight of 2024. Overall temperatures remained above normal across most of the country and ranged between 1 - 7 °C except Mianwali.

5. Maximum Length of Consecutive Dry Days

The Maximum length of dry spell is calculated from the day receiving less than one (1) mm of rainfall. The spatial distribution of the Consecutive Dry Days (CCD) are shown in Figure 7. Highest number of consecutive dries are observed at Nokundi, Turbat and Dalbandin districts, while rest of the Balochistan and few parts of Sindh and southern Punjab, also experienced the 20-60 consecutive dry days spells .

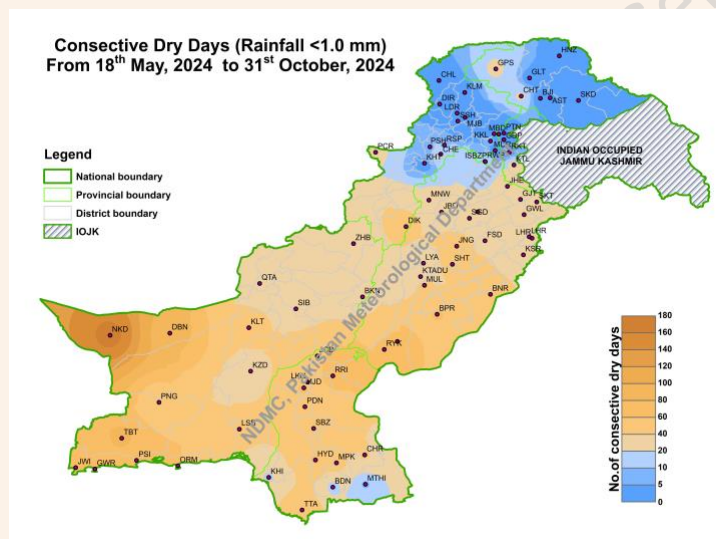


Figure 7: Spatial Distribution of Dry Days Spell

6. Drought Situation Analysis

Below normal rainfall is received over most parts of the country during the second fortnight of the October 2024 except Gilgit Baltistan, Kashmir, Pothohar region, Khyber Pakhtunkhwa and southeast Sindh where above normal rainfall was reported. The temperature remained above than normal by 1-7 °C, over most parts of the country. The length of the consecutive dry days observed more over Nokundi, Dalbandin and Turbat districts.

Keeping in view in the above climatic conditions, all stake holders are advised to keep eye on the latest weather advisories and plan the disaster risk reduction (DRR) in accordance with the prevailing climatic conditions.

National Drought Monitoring Centre