

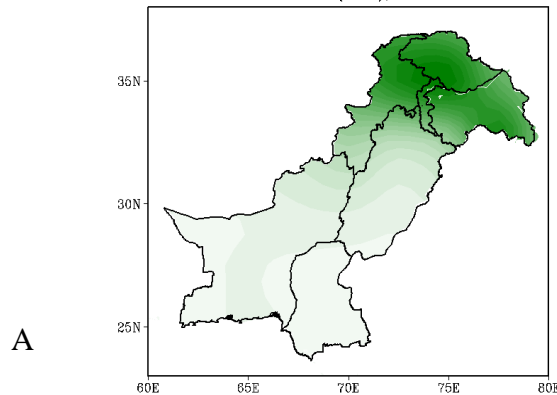
Seasonal Agro-Climat outlook for March to May 2023

Brief Introduction

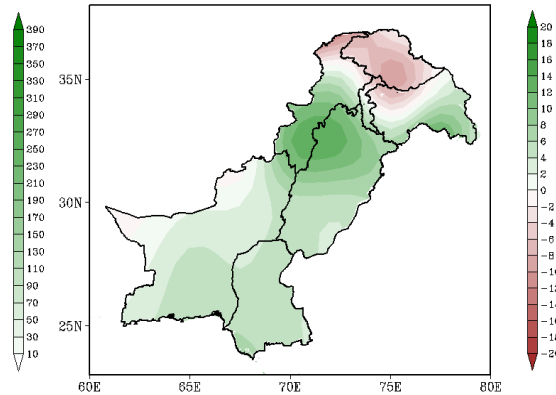
Pakistan Meteorological Department issues monthly and seasonal forecast at the end of each month using global climate models. As the result of a single model and single data set are not considered reliable for prediction and forecast for a longer period, therefore models developed by different institutes and different data sets are being used for accuracy along with different boundary conditions for each model output. At present, 13 recommended models are adopted to obtain multi-model ensemble for seasonal predictions.

Seasonal Projections (Precipitation)

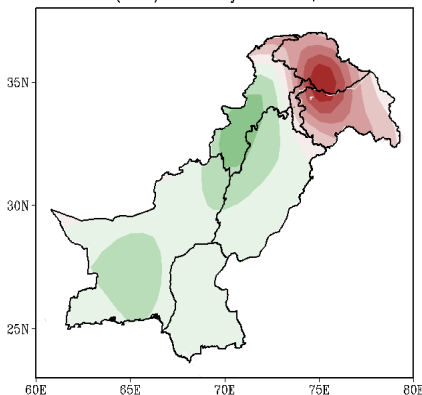
Total Rainfall (mm), MAM-2023



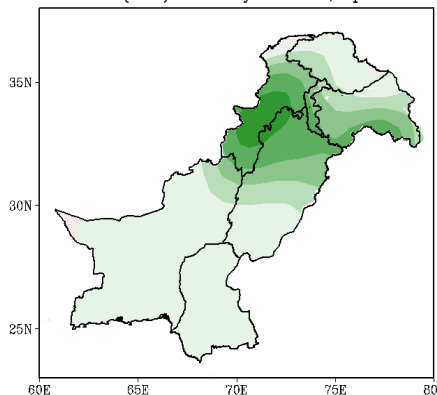
Rainfall (mm) Anomaly Outlook, MAM-2023



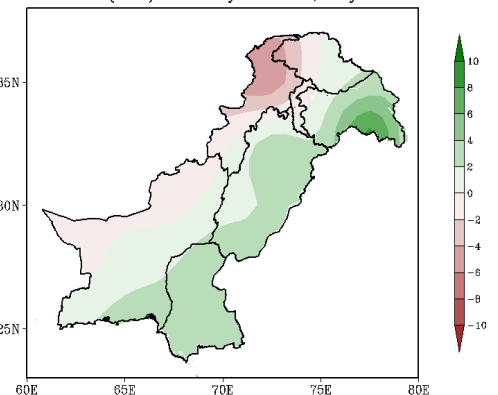
Rainfall (mm) Anomaly Outlook, Mar-2023



Rainfall (mm) Anomaly Outlook, Apr-2023



Rainfall (mm) Anomaly Outlook, May-2023

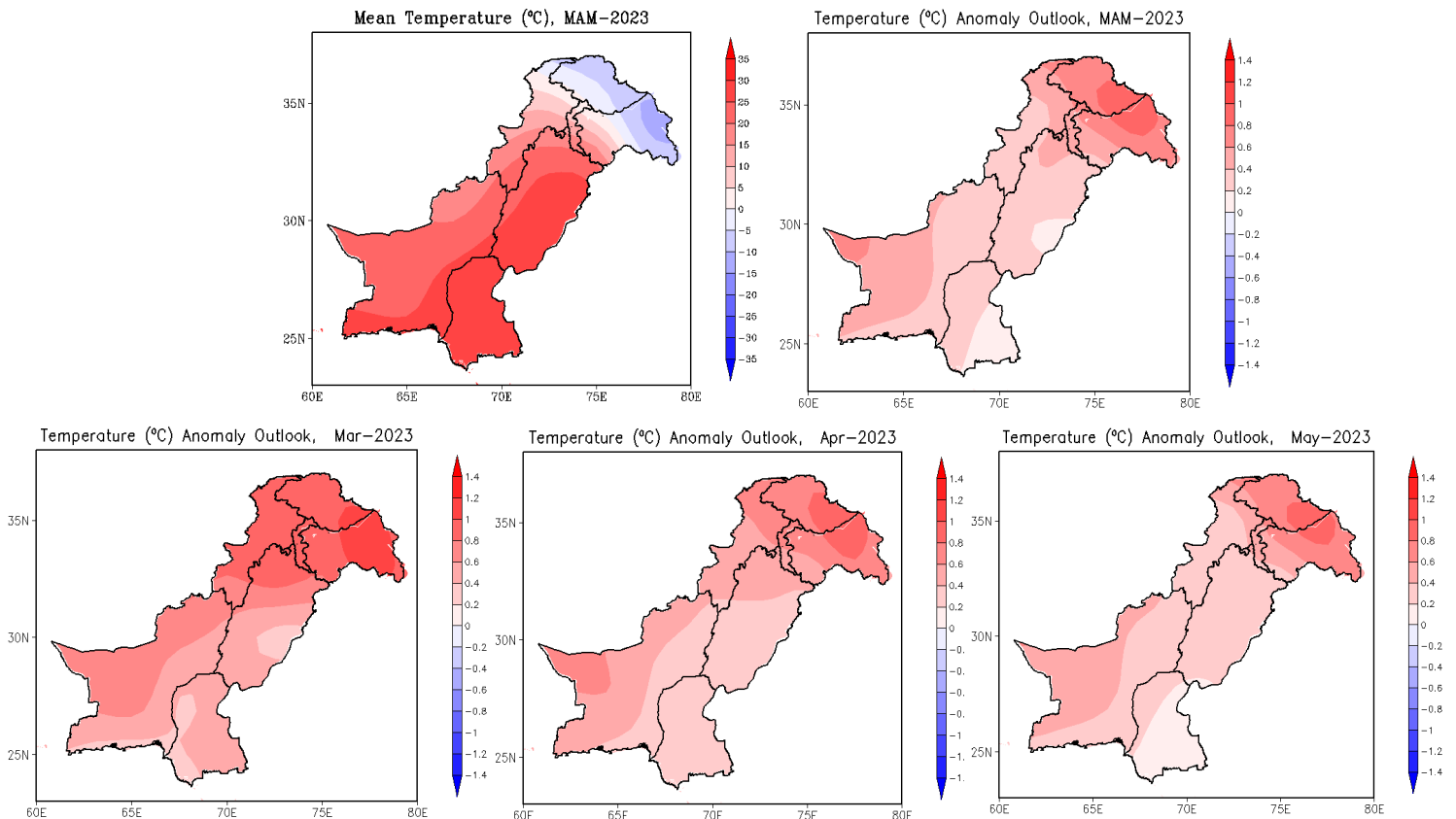


Tendency of nearly normal precipitation is likely over most parts of the country during the season (MAM) whereas, below normal precipitation is expected in northern Khyber Pakhtunkhwa and Gilgit Baltistan.

Month Wise Situation

- In March 2023, nearly normal rainfall is likely in most parts of the country, however slightly above normal rainfall is expected in central and southern Khyber Pakhtunkhwa along the adjoining western belt of Punjab and northwestern Baluchistan. Whereas, below normal precipitation is expected over Gilgit Baltistan and Kashmir region.
- During April 2023, normal rainfall is expected over most parts of the country whereas above normal rainfall is expected in Khyber Pakhtunkhwa, upper Punjab and Kashmir.
- Nearly normal to slightly above normal rainfall is likely over the most parts of the Punjab and Sindh whereas below normal rainfall is expected in Khyber Pakhtunkhwa, Baluchistan, Kashmir and adjoining eastern parts of Gilgit Baltistan during May 2023.

Seasonal Projections (Mean Air Temperature)

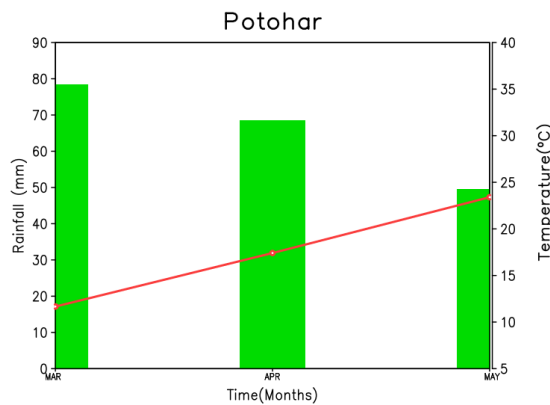


A tendency of above normal mean temperatures is expected in most parts of the country during the period (MAM). Importantly, the chances of heat wave episodes are expected.

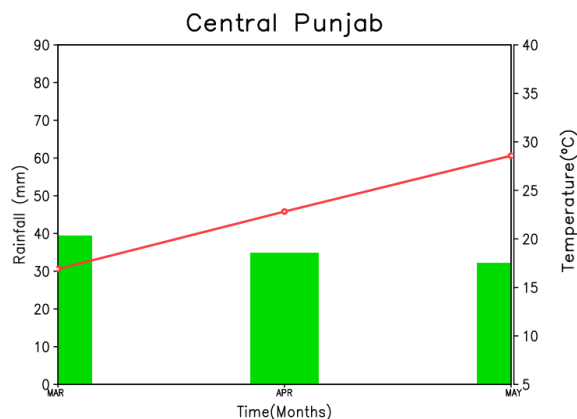
Month Wise Situation

- Nearly normal to slightly above normal mean temperature is expected in most parts of the country during March and April 2023 especially over Khyber Pakhtunkhwa, Gilgit Baltistan, Kashmir and northern parts of Punjab and northwestern belt of Baluchistan.
- Nearly normal to above normal mean temperatures are likely over the country during May 2023.

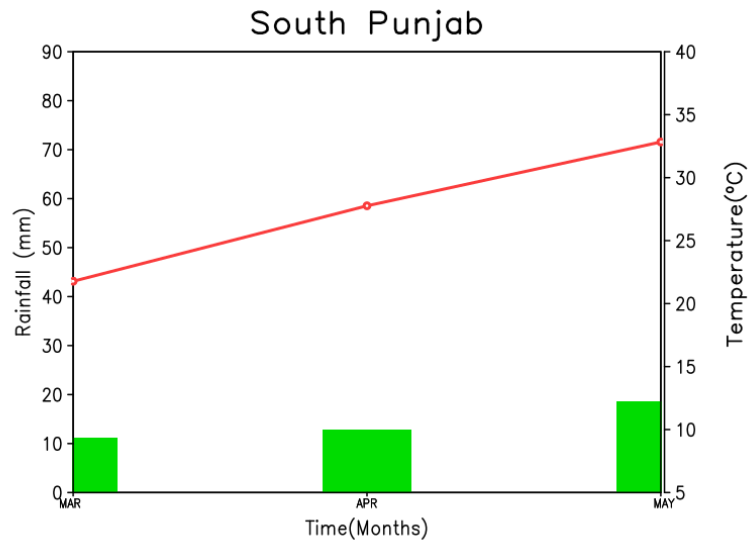
Outlook for Agroclimatic Zones



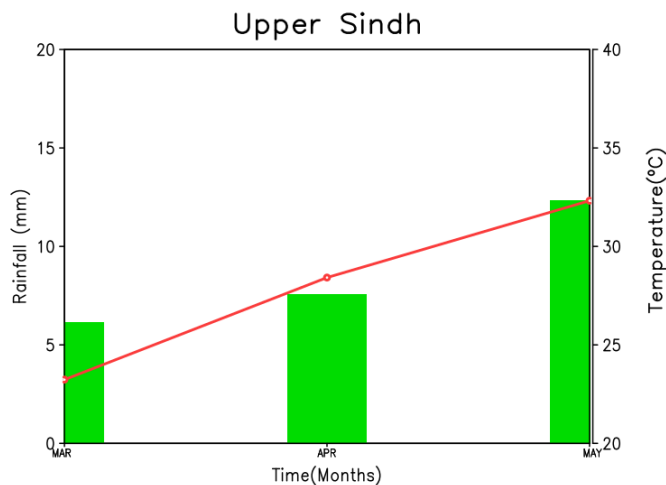
The Potohar Region is expected to receive considerable rainfalls throughout the period. The mean temperature is expected to increase following the seasonal pattern.



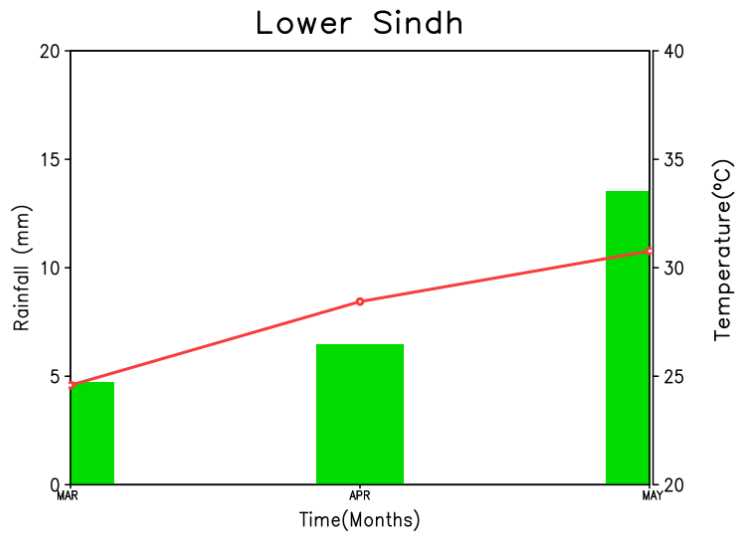
Central Punjab is expected to receive lesser rainfalls during the period. The mean temperature is projected to increase as per seasonal pattern.



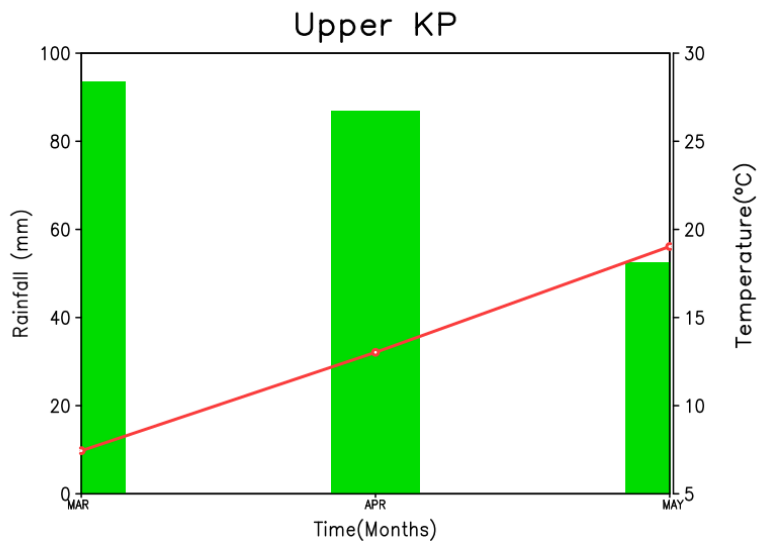
Southern Punjab is expected to receive very few rainfalls during the next three months. The mean temperature may increase gradually following the seasonal pattern.



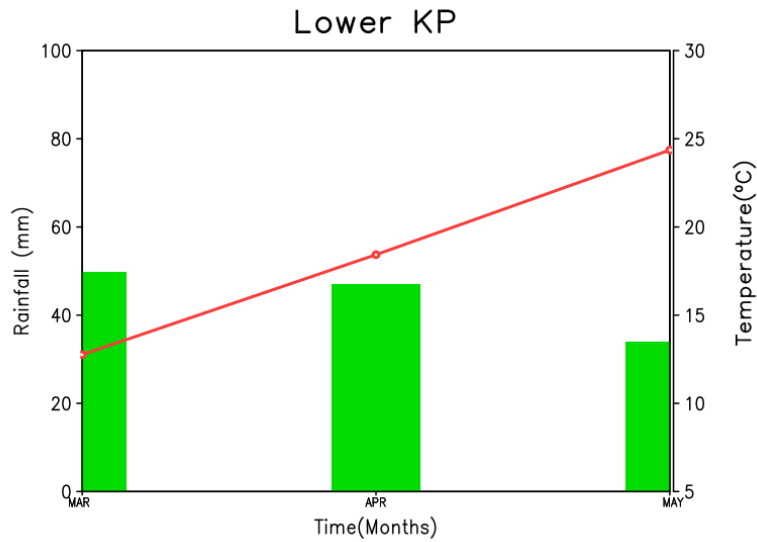
Upper Sindh is expected to receive a few rainfall events during the period. The mean temperature is expected to increase following the seasonal pattern.



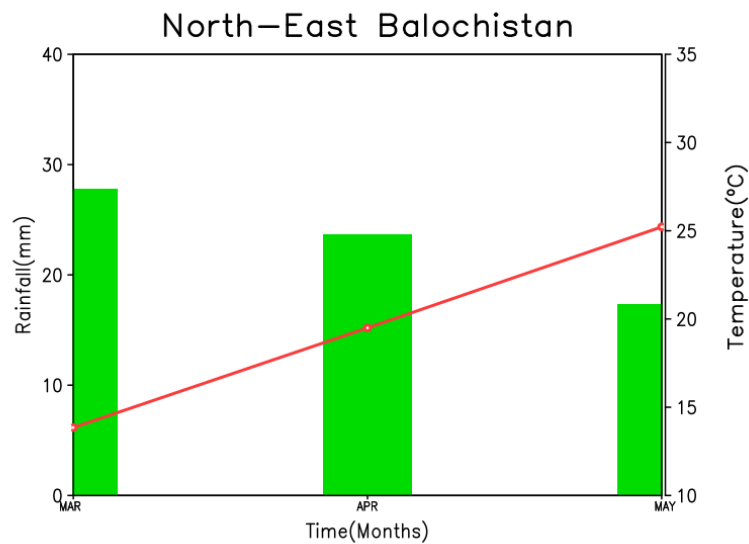
Similarly, Lower Sindh is expected to receive fewer rainfalls during the period. The mean temperature may increase following the seasonal pattern.



Upper Khyber Pakhtunkhwa is expected to receive considerable amount of precipitation throughout the period particularly in March 2023. The mean temperature is expected to increase as per seasonal pattern.



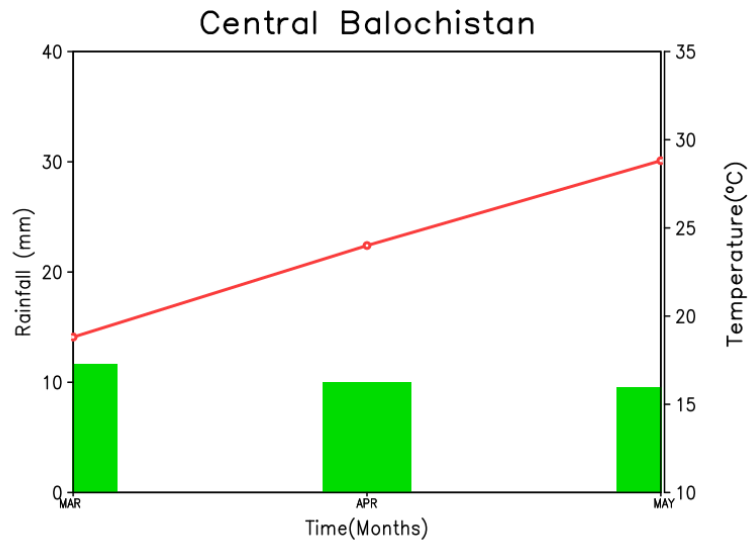
Lower Khyber Pakhtunkhwa is expected to receive lesser precipitation throughout the period. The mean temperature may increase following the seasonal pattern.



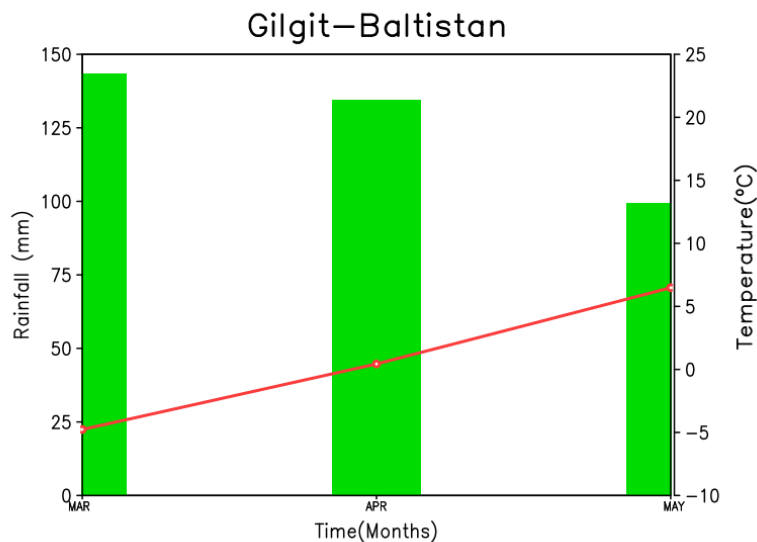
North-Eastern Baluchistan may receive fewer precipitation throughout the period. The mean temperature is expected to increase following the seasonal pattern.



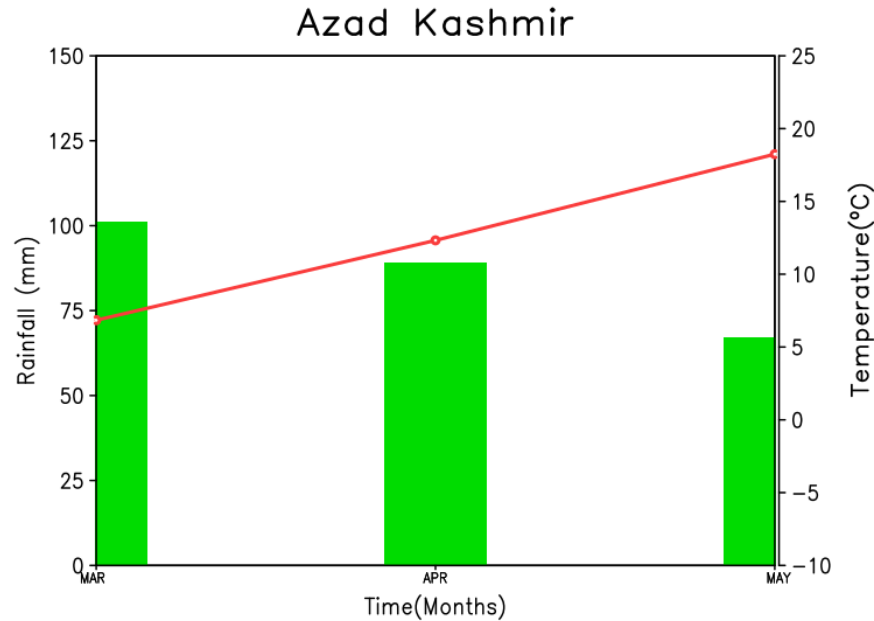
Tele: +92-51-9250592
Fax: +92-51-9250368



Central Baluchistan is expected to receive lesser rainfalls during the next three months. The mean temperature may increase gradually following the seasonal pattern.



Gilgit Baltistan is expected to receive reasonable amount of rainfall during the mentioned period particularly in April 2023. The mean temperature may increase gradually following the seasonal pattern.



Kashmir is expected to receive considerable rainfalls during the next three months. The mean temperature is expected to increase following the seasonal pattern.

Advisories to Farmers Based on the Past and expected Weather conditions

During the past few months below normal rainfall has been reported from most parts of the country and the agricultural soils have very less moisture availability from rain. Also there are expectations of above normal mean temperatures with the chances of heat wave episodes. This will result in the stress on crop particularly in the rain fed areas. Therefore additional irrigation will be required for crops and wheat crop may be ready to harvest a bit earlier.