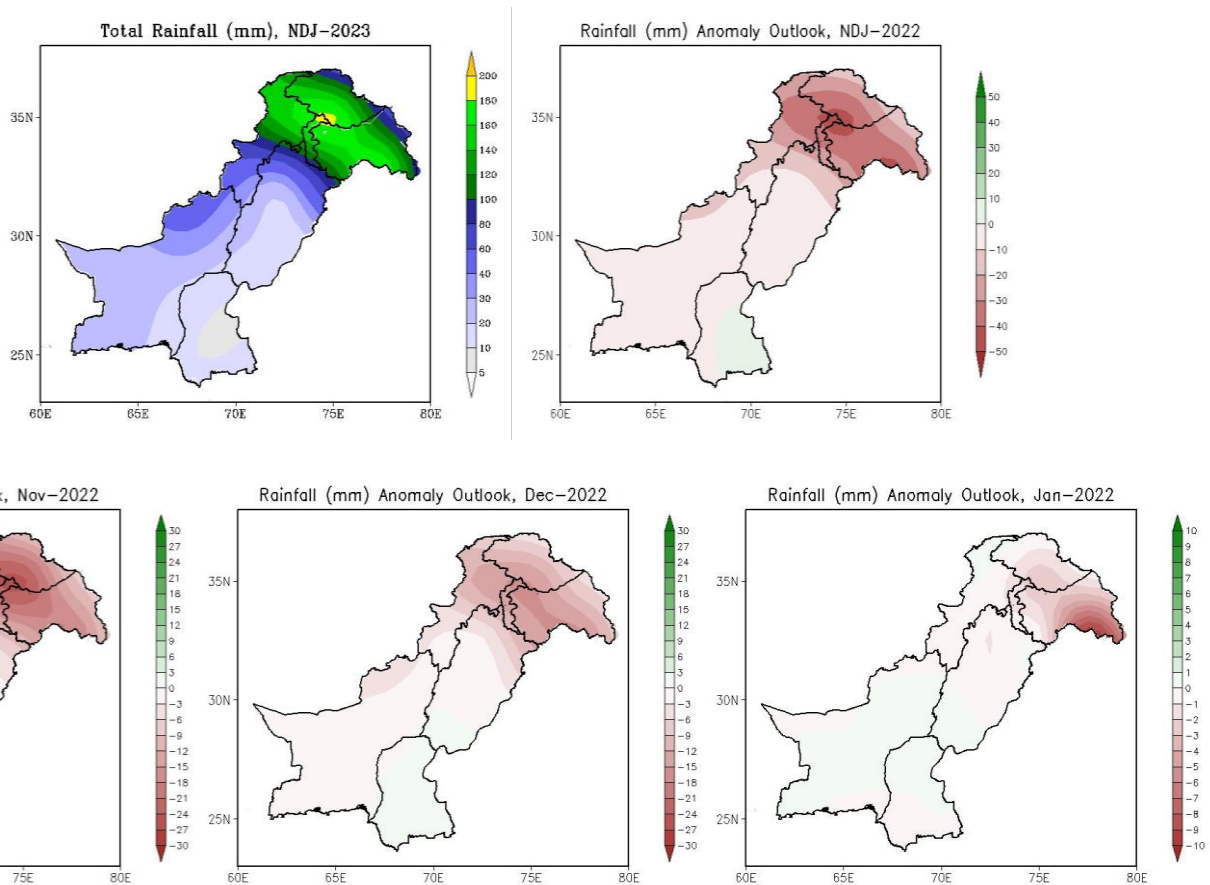


Seasonal Agro-Climat Outlook for Nov 2022-Jan 2023

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)

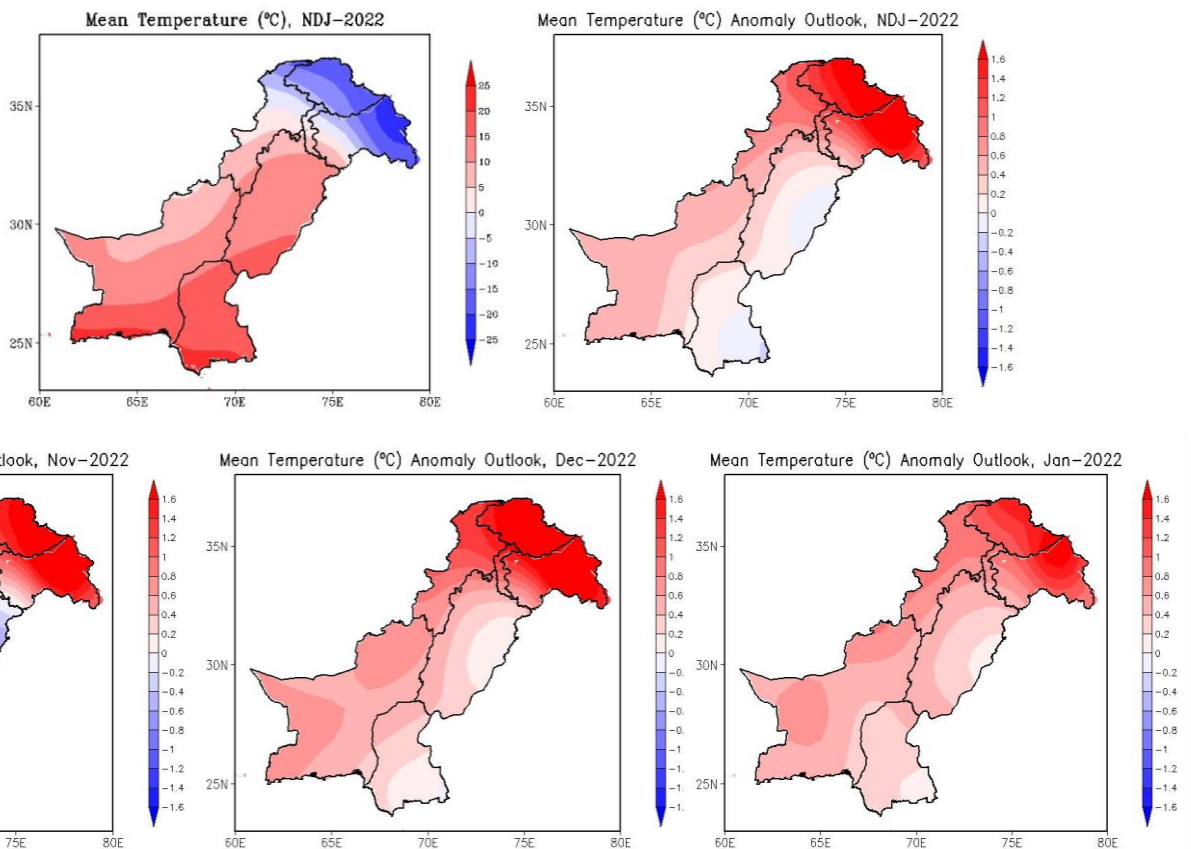


A tendency of normal to below normal precipitation is likely over the country during the season (NDJ) except southeastern Sindh where rainfall is expected to remain normal to slightly above normal.

Month Wise Situation

- Nearly normal to below rainfall (with snowfall over the high mountains) is likely in most parts of the country during November 2022, particularly over the upper half of the country including upper KP, northern Punjab, GB & Kashmir.
- Slightly above normal rainfall (with snowfall over the high mountains) is expected over Sindh and southern Punjab including Bahawalpur, Rahimyar Khan & Rajanpur region during December 2022. Whereas, nearly normal to below rainfall (with snowfall over the high mountains) is likely in rest of the country during December 2022, particularly in upper KP, GB and Kashmir.
- During January 2023, slightly above normal rainfall is likely over the most parts of Baluchistan, southern Punjab, northern KP and upper Sindh. Whereas, nearly normal to below normal rainfall is expected in rest of the country especially over northeastern Kashmir and adjoining parts of GB.

Seasonal Projections (Air Temperature)





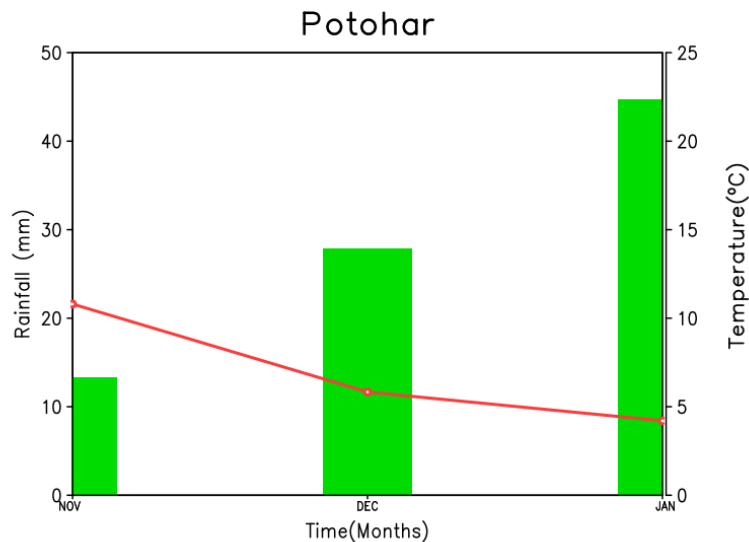
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A tendency of nearly normal to above normal mean temperature is expected in most parts the country except eastern belt of Punjab and southeastern Sindh where it may remain slightly below normal during the period (NDJ).

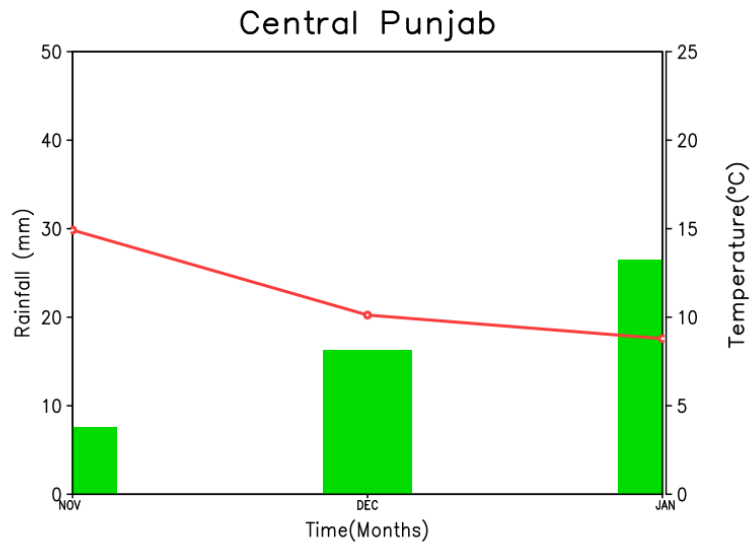
Month Wise Situation

- Nearly normal to below normal mean temperature is expected in most parts of Sindh and Punjab during November 2022 whereas nearly normal to above normal in rest of the country.
- Nearly normal to above normal mean temperature is likely over the country during December 2022 & January 2023 especially over northern KP, GB and Kashmir.

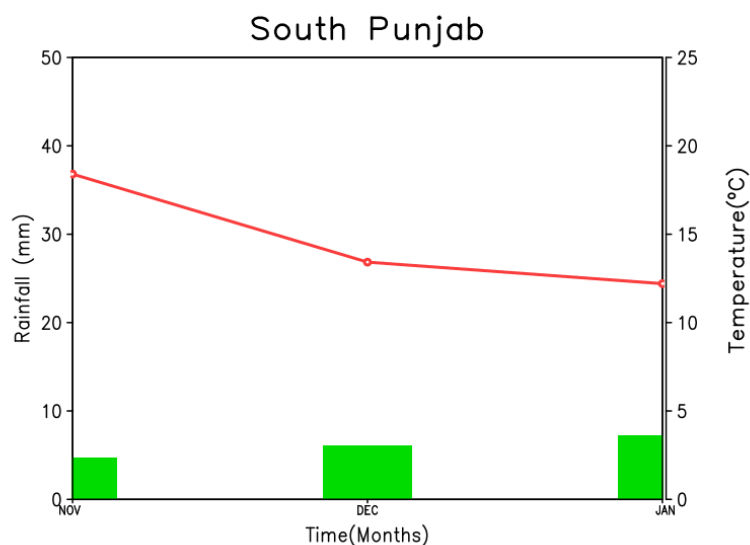
Outlook for Agroclimatic Zones



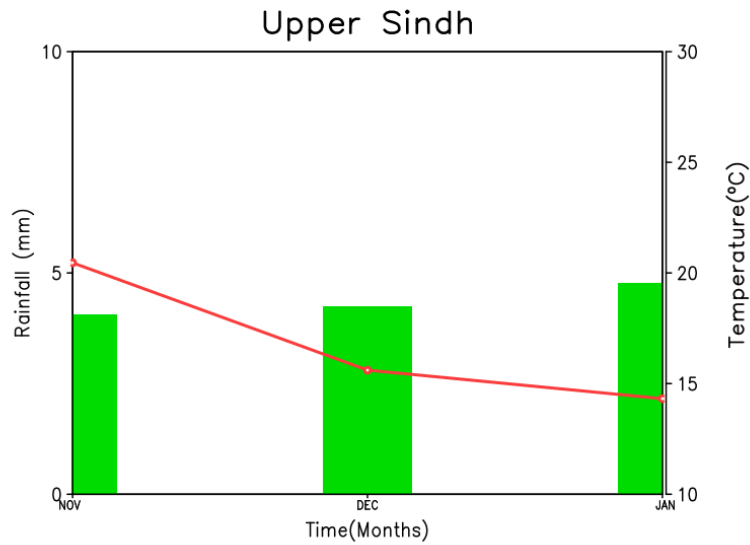
The **Potohar Region** is expected to receive fewer precipitation throughout the period particularly during November. The mean temperature is expected to decrease following the seasonal pattern particularly during the first two months.



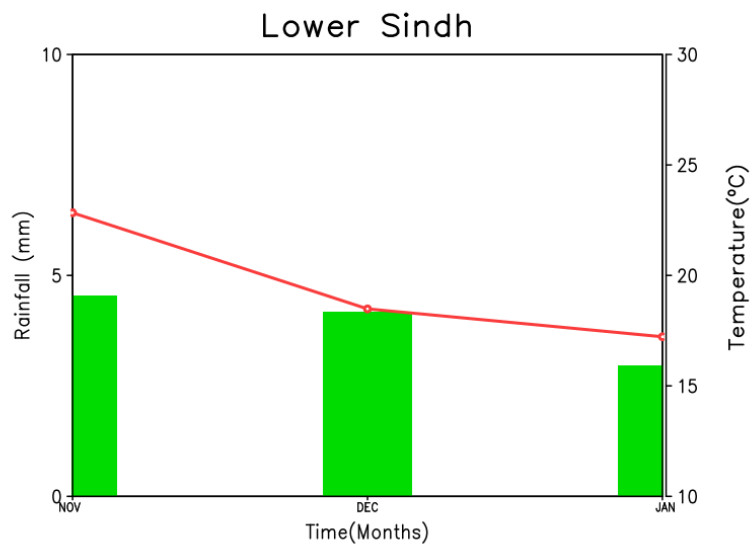
Similarly, **central Punjab** is expected to receive lesser rainfalls during the period. The mean temperature is projected to decrease following the seasonal pattern.



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



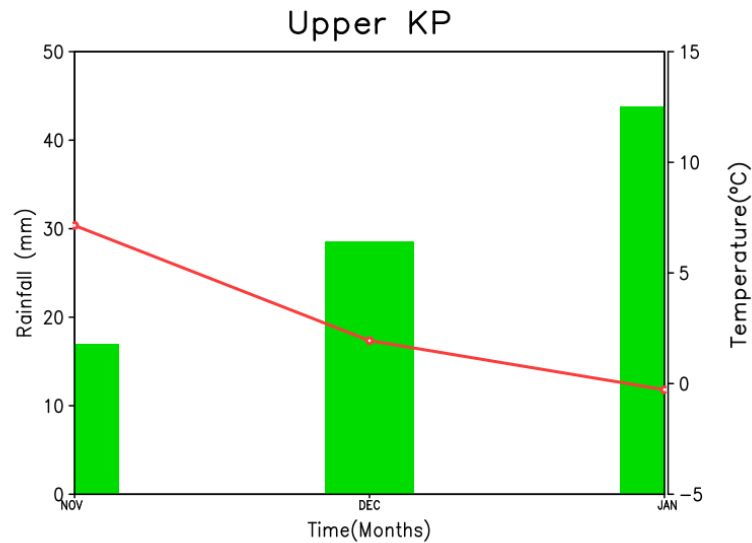
Upper Sindh is expected to receive lesser rainfalls during the period. The mean temperature is expected to decrease gradually following the seasonal pattern.



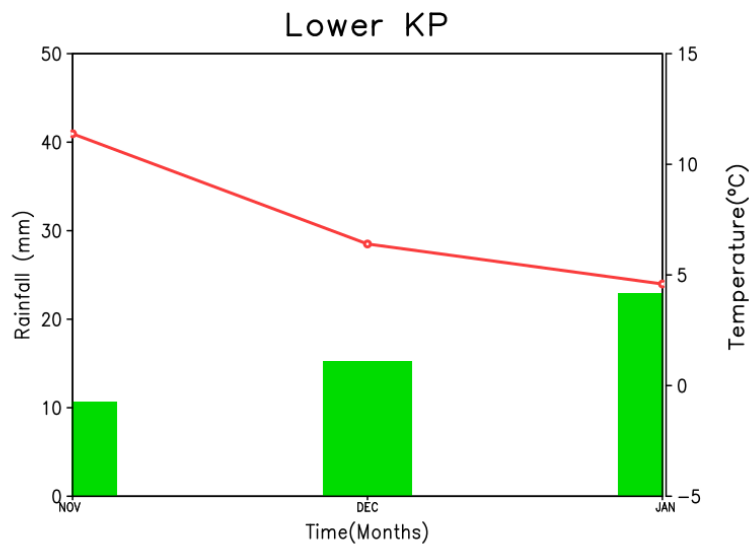
Similarly, **lower Sindh** is expected to receive fewer amount of rainfall during the period. The mean temperature may decrease following the seasonal pattern.



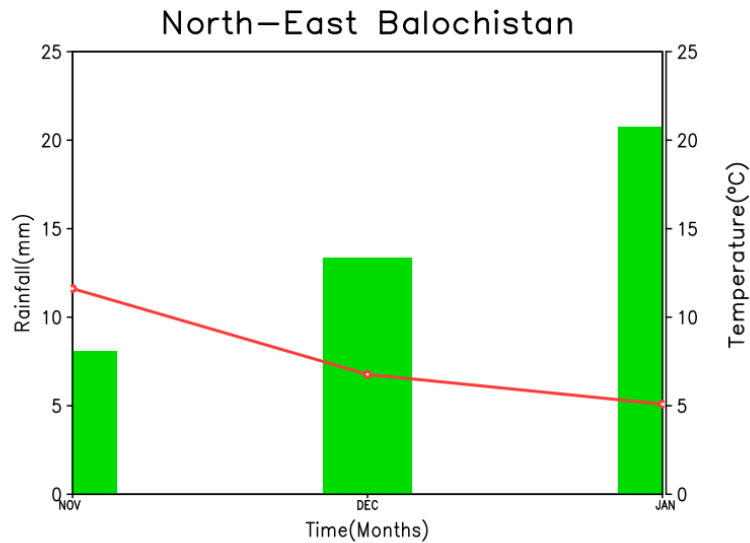
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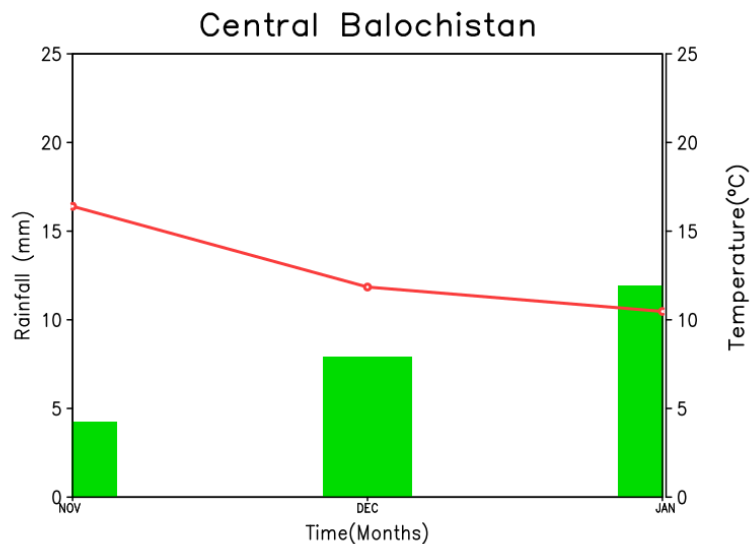
Upper Khyber Pakhtunkhwa is expected to receive fewer amount of precipitation throughout the period. The mean temperature is expected to decrease as per seasonal pattern.



Lower Khyber Pakhtunkhwa is expected to receive lesser precipitation. The mean temperature may decrease gradually following the seasonal pattern.



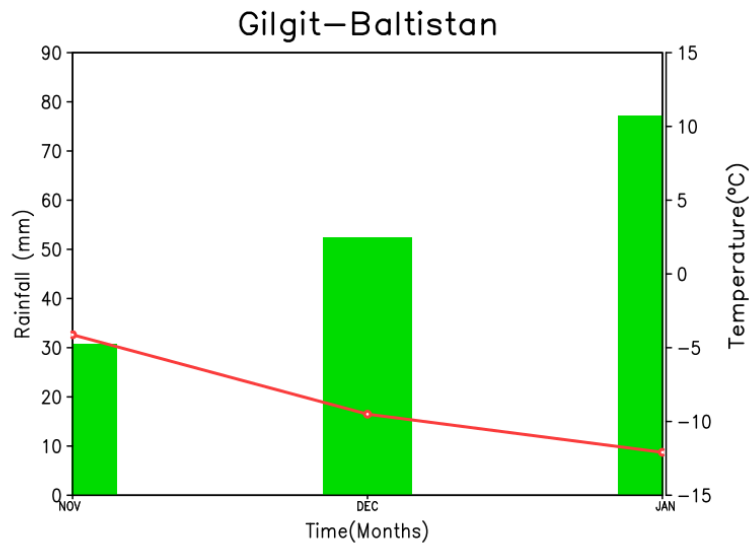
North-Eastern Baluchistan may receive fewer precipitation throughout the period especially in November 2022. The mean temperature is expected to decrease gradually following the seasonal pattern.



Central Baluchistan is expected to receive lesser rainfalls during the next three months particularly during November 2022. The mean temperature may decrease gradually following the seasonal pattern.



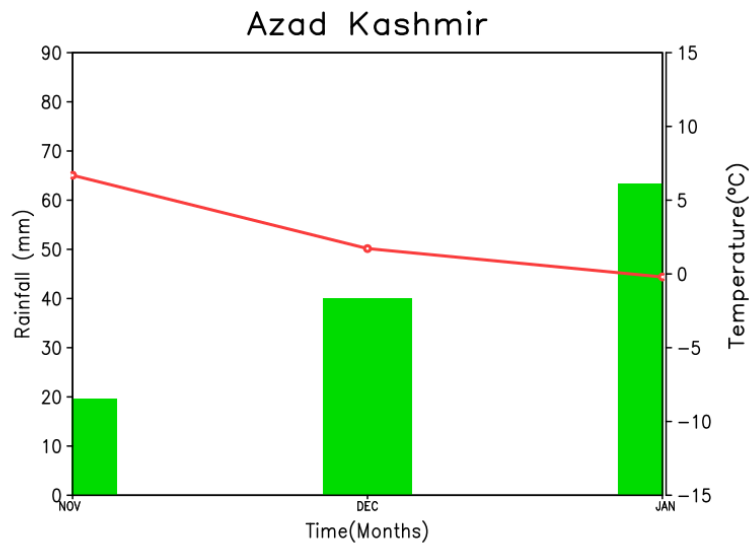
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Gilgit

is expected to receive fewer precipitation during the mentioned period. The mean temperature may decrease following the seasonal pattern.

Baltistan is gradually seasonal



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



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Advisories to Farmers Based on the Past and expected Weather

Although there were very few rains during the last month but the agricultural soils hold a considerable amount of moisture. However, fewer rainfalls (snowfall over the high mountains) are expected in the next three months which would gradually decrease the moisture conditions in the major agricultural plains of the country.

At present, the conditions are favorable for the Rabi crops like Wheat etc throughout the country except the particular areas of Sindh with stagnant water. The soils have suitable moisture to proceed for in time sowing of Rabi crops. However, based on drier and warmer conditions in the next three months, additional irrigation may be required at regular intervals for healthier growth of standing crops.