



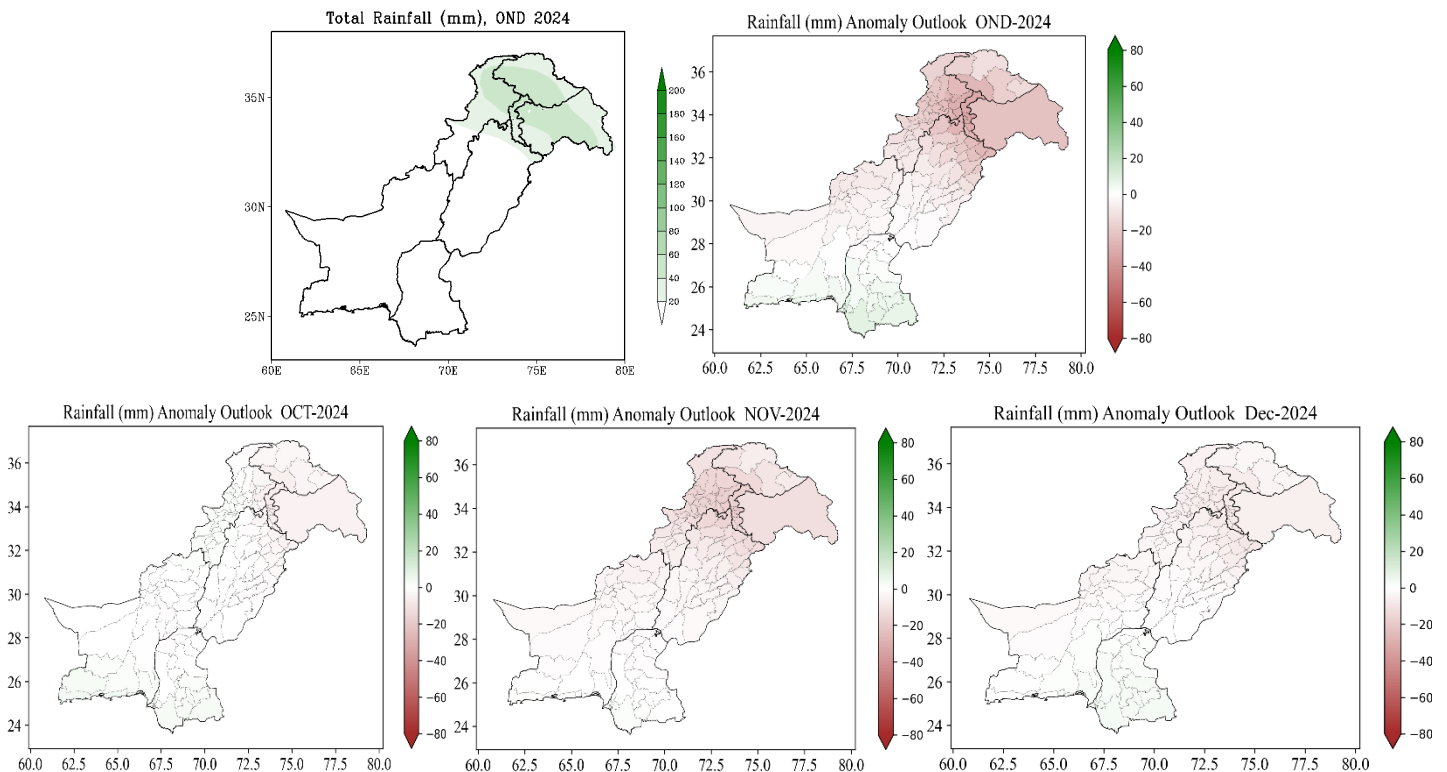
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Seasonal Agro-Climat Outlook for October – December 2024

Brief Introduction

Pakistan Meteorological Department issues monthly and seasonal forecasts at the end of each month using global climate models. As a result, 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 ensembles for seasonal predictions.

Seasonal Projections (Precipitation)



Overall, a tendency of below-normal precipitation is likely over most parts of the country during the next three months (OND), 2024 particularly in upper & central Punjab, Khyber Pakhtunkhwa, Gilgit Baltistan and adjoining areas of Kashmir. Whereas, normal to slightly above normal rainfall is expected in Sindh, Southern parts of Punjab and Baluchistan.



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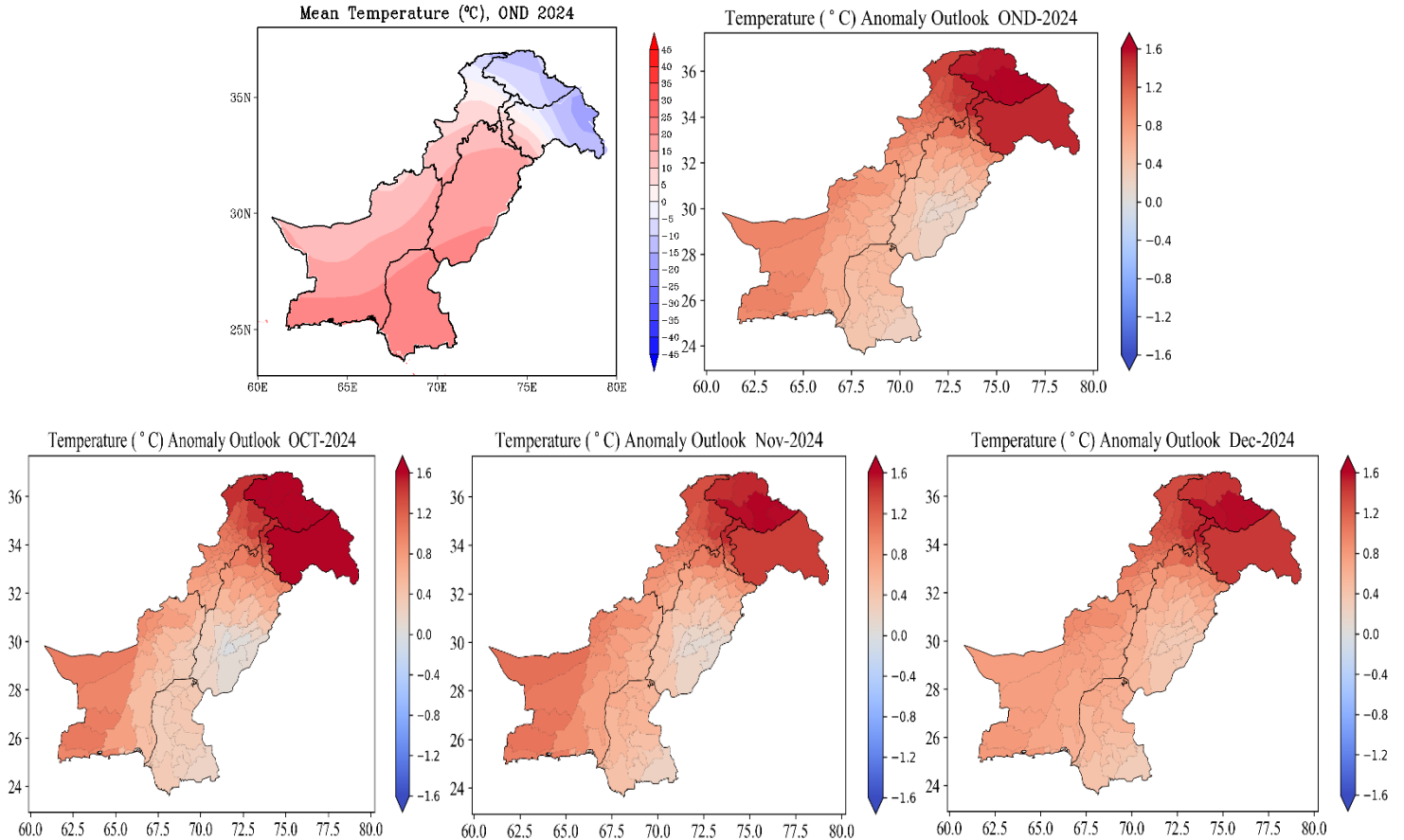
Month Wise Situation

- During October 2024, near normal precipitation is likely over most parts of the country. However, Gilgit Baltistan, AJK and adjoining areas of Khyber Pakhtunkhwa are expected to receive slightly below normal rainfall.
- During November 2024, below-normal precipitation is likely over most parts of the country, particularly in upper & central Punjab, Khyber Pakhtunkhwa, Gilgit Baltistan and Azad Kashmir. Whereas normal rainfall is expected in Sindh, Baluchistan and south Punjab.
- Mostly normal to slightly below normal precipitation is likely over most parts of the country during December 2024, particularly in Punjab, Khyber Pakhtunkhwa, Gilgit Baltistan and adjoining areas of Kashmir. However, near normal rainfall is expected in Sindh and Baluchistan.



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Seasonal Projections (Mean Air Temperature)



A tendency of normal to above normal mean temperature is likely over most parts of the country during the period (OND) 2024, particularly the northeastern region including Gilgit Baltistan, Kashmir and western belt of Baluchistan.



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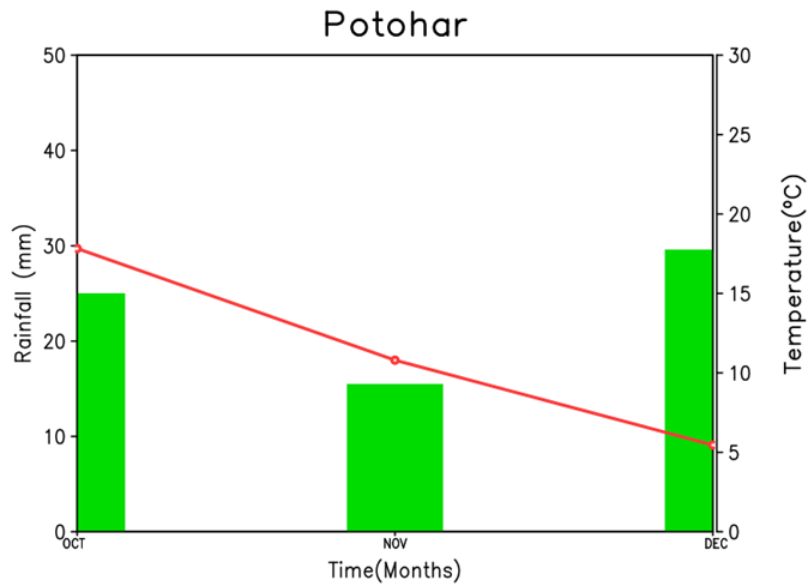
Month Wise Situation:

- During October and November 2024, above-normal mean temperature (1-2°C) is likely in most parts of the country particularly in Gilgit Baltistan, Kashmir, upper Khyber Pakhtunkhwa, upper & central Punjab, Baluchistan and Sindh. Whereas normal mean temperature is expected in south parts of Punjab and adjoining area in October and November.
- Mainly above normal mean temperature(1-2°C) is likely in most parts of the country during the month of December 2024.



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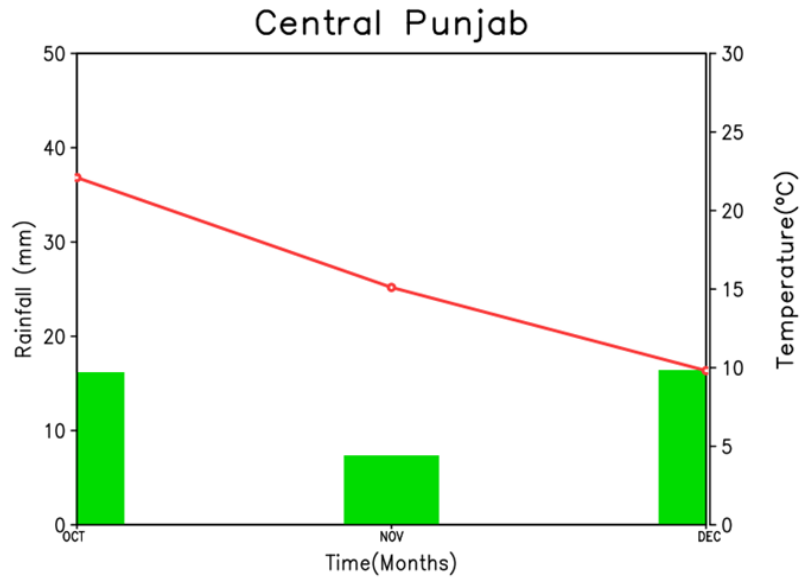
Outlook for Agroclimatic Zones



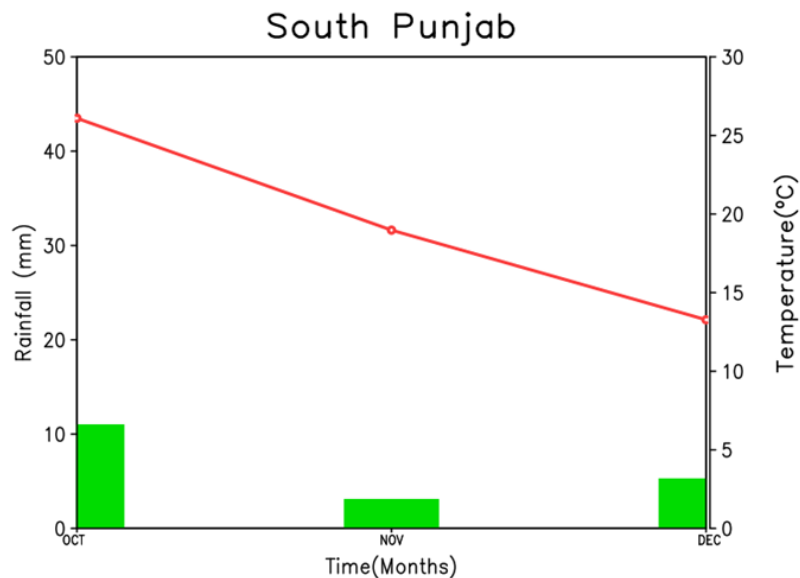
The **Potohar Region** is expected to receive considerable amount of precipitation during the specified period (OND), especially in the month of December 2024. The mean temperature is expected to decrease gradually following the seasonal pattern.



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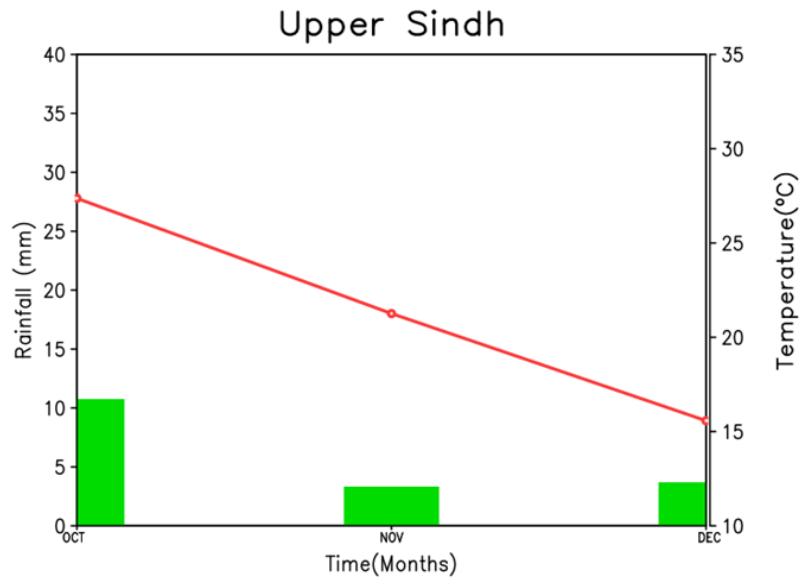
Central Punjab is expected to receive lower rainfalls during the period (OND), particularly in October. The mean temperature is projected to gradually decrease as per seasonal pattern.



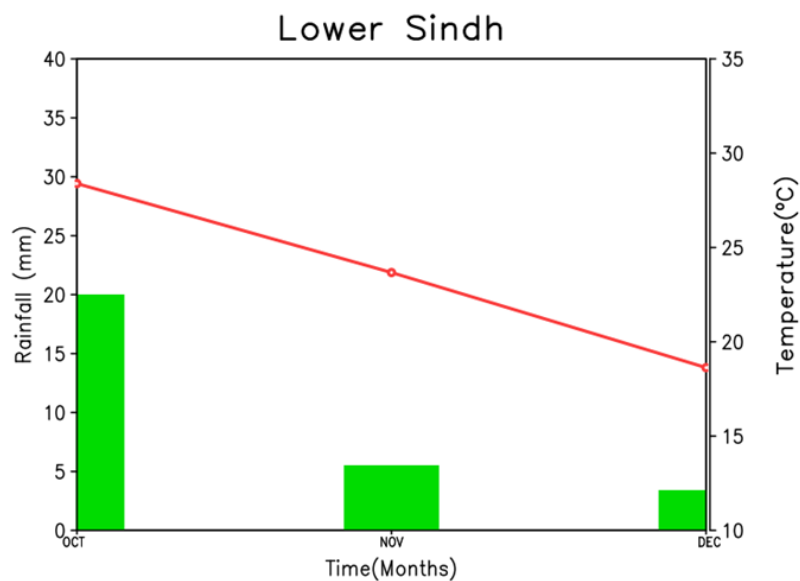
Southern Punjab is expected to receive fewer rainfall during the next three months (OND). The mean temperature is expected to gradually decrease following the seasonal pattern.



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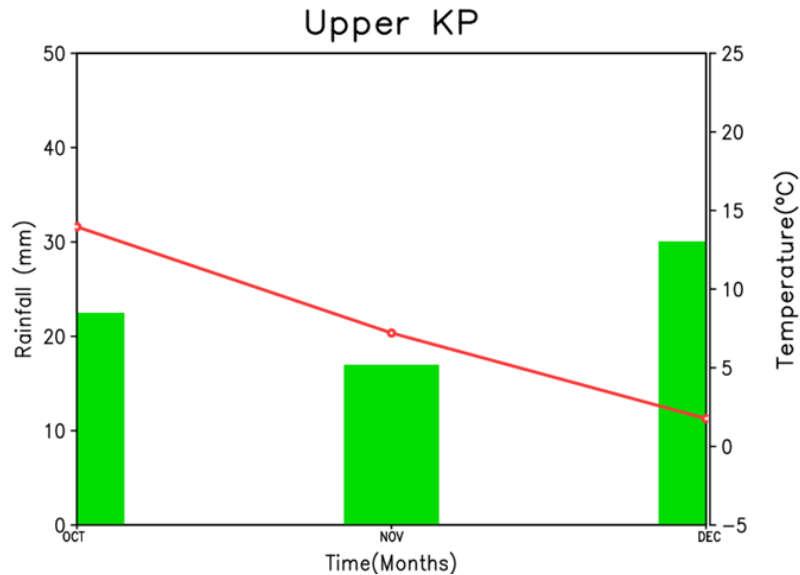
Upper Sindh is expected receive lesser rainfalls during the mentioned period (OND). The mean temperature is expected to gradually decrease following the seasonal pattern.



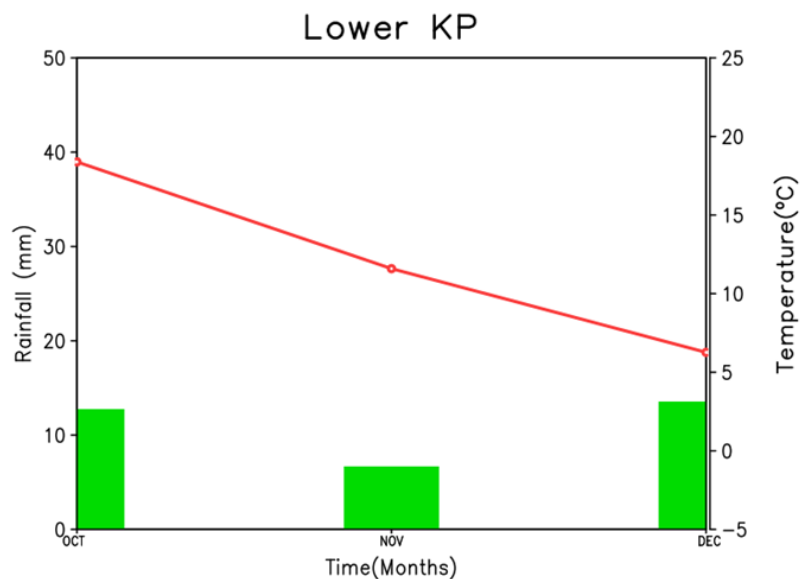
Similarly, **Lower Sindh** may comparatively receive little more rainfalls in the period (OND) especially during October and mean temperature is expected to decrease gradually following the seasonal pattern.



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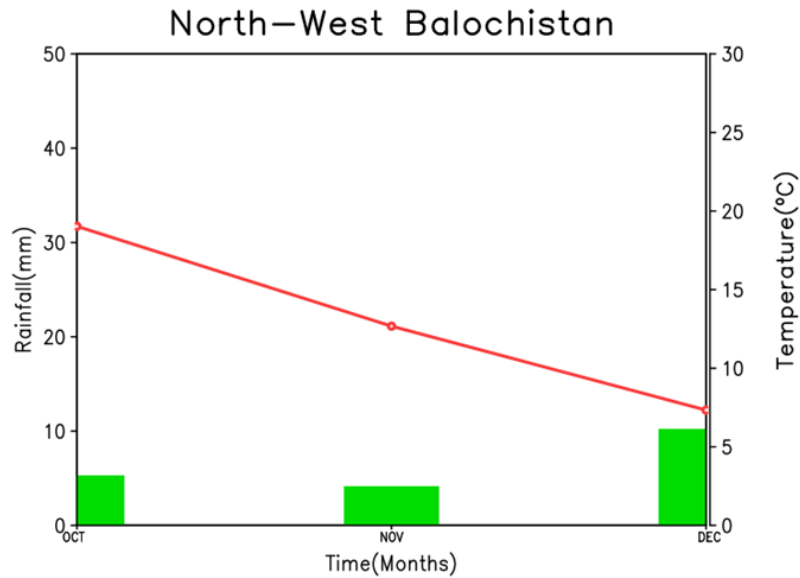
Upper Khyber Pakhtunkhwa may receive considerable amount of precipitation throughout the period especially in the latter two months. The mean temperature is expected to gradually decrease following the seasonal pattern.



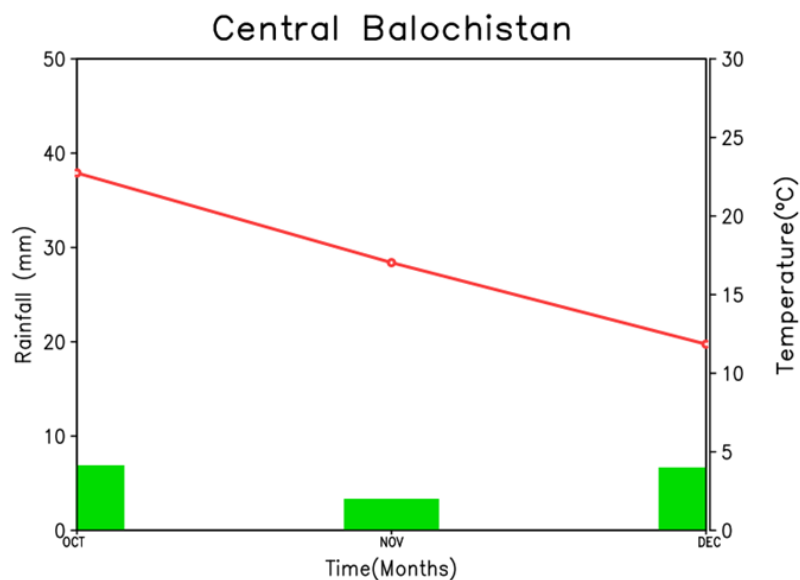
Lower Khyber Pakhtunkhwa is expected to receive lower amount of precipitation (OND) especially in the month of October. The mean temperature is expected to gradually decrease following the seasonal pattern.



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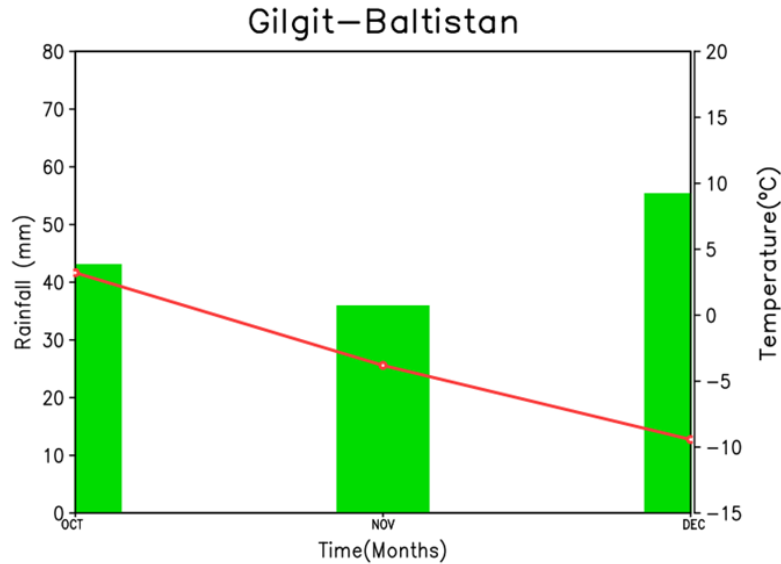
North-Western Baluchistan is expected to receive lesser rainfalls during the period particularly in the initial two months of the period. The mean temperature is expected to gradually decrease following the seasonal pattern.



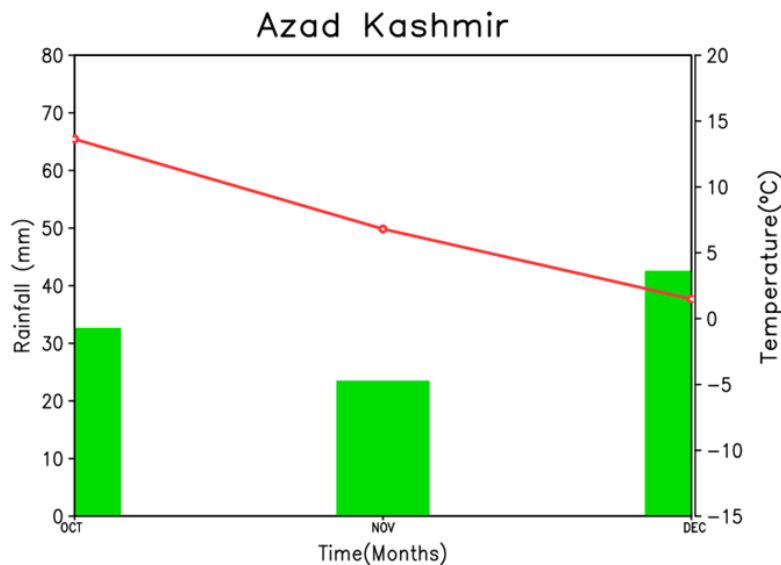
Central Baluchistan is expected to receive lesser rainfalls during the period of (OND). The mean temperature is expected to gradually decrease following the seasonal pattern.



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Gilgit Baltistan is expected to receive comparatively less amount of precipitation throughout the period (OND). The mean temperature is expected to decrease gradually following the seasonal pattern.



Azad Jammu Kashmir also receive a comparatively less amount of precipitation especially the month of November during this period (OND) 2024. The mean temperature is expected to gradually decrease following the seasonal pattern.



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Advisories for Farmers Based on the Recent and Expected Weather conditions

- Reasonable soil moisture is available for sowing of upcoming Rabi crops due to above normal rains during monsoon season, except September during which below normal rains recorded. However, soil moisture stress is also expected during Oct-Dec due to below normal precipitation expected during the next three months.
- Isolated showers / hails/ windstorm may disrupt the harvesting activities of Kharif crops, particularly in the northwestern parts of the country.
- In addition to a gradual fall in temperature during the next three months, slightly below normal rainfall (snowfall on hills) is expected in most parts of the country, especially in the upper regions.
- Considerable amount of water would be available for irrigation particularly over the upper half, during the forecast period.
- However, judicious use of available water stock is recommended for the lower half of the country.