



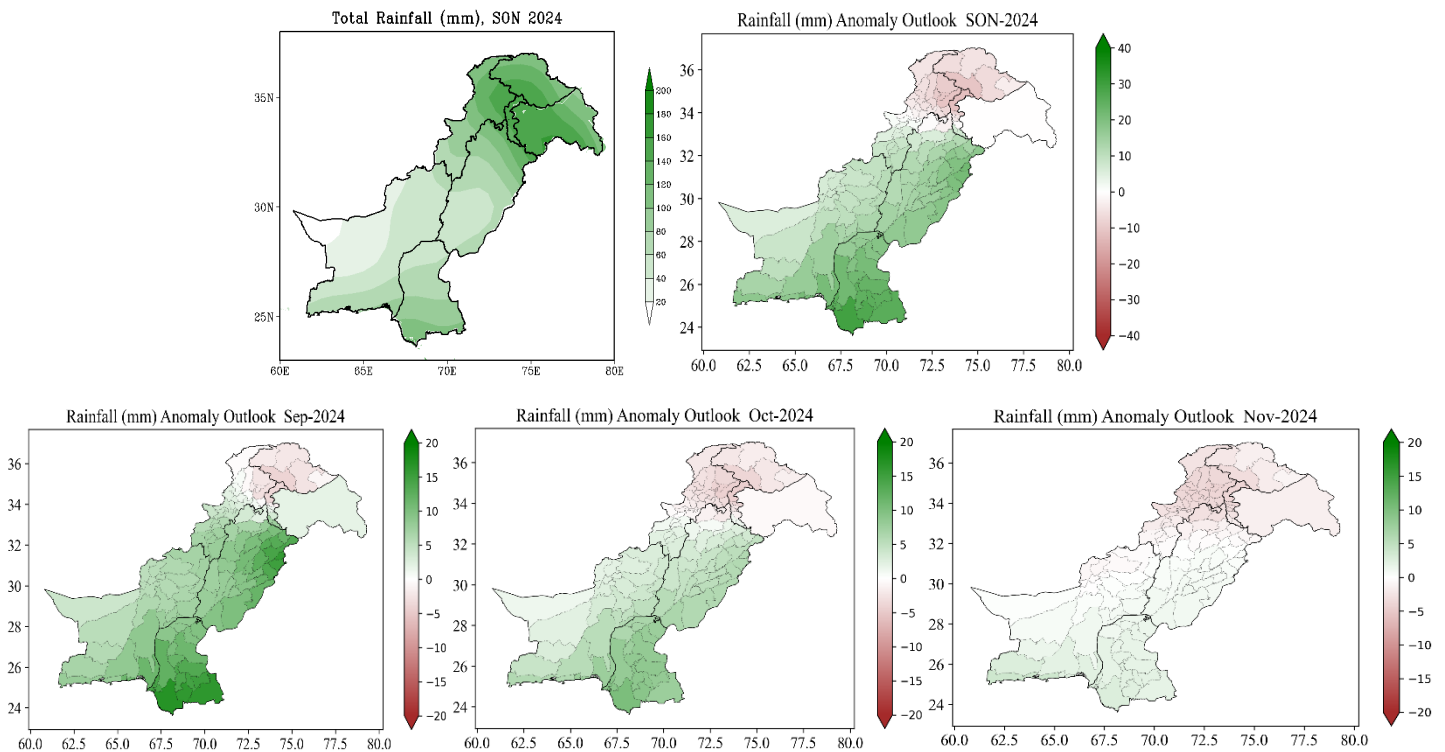
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## Seasonal Agro-Climat Outlook for September – November 2024

### **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)**



A tendency of above-normal precipitation is likely over most parts of the country during the next three months (SON), particularly in Sindh, Punjab, Baluchistan and lower Khyber Pakhtunkhwa. Whereas, normal to slightly below normal rainfall is expected in Gilgit Baltistan and adjoining areas of Azad Kashmir, upper Khyber Pakhtunkhwa and Potohar region.



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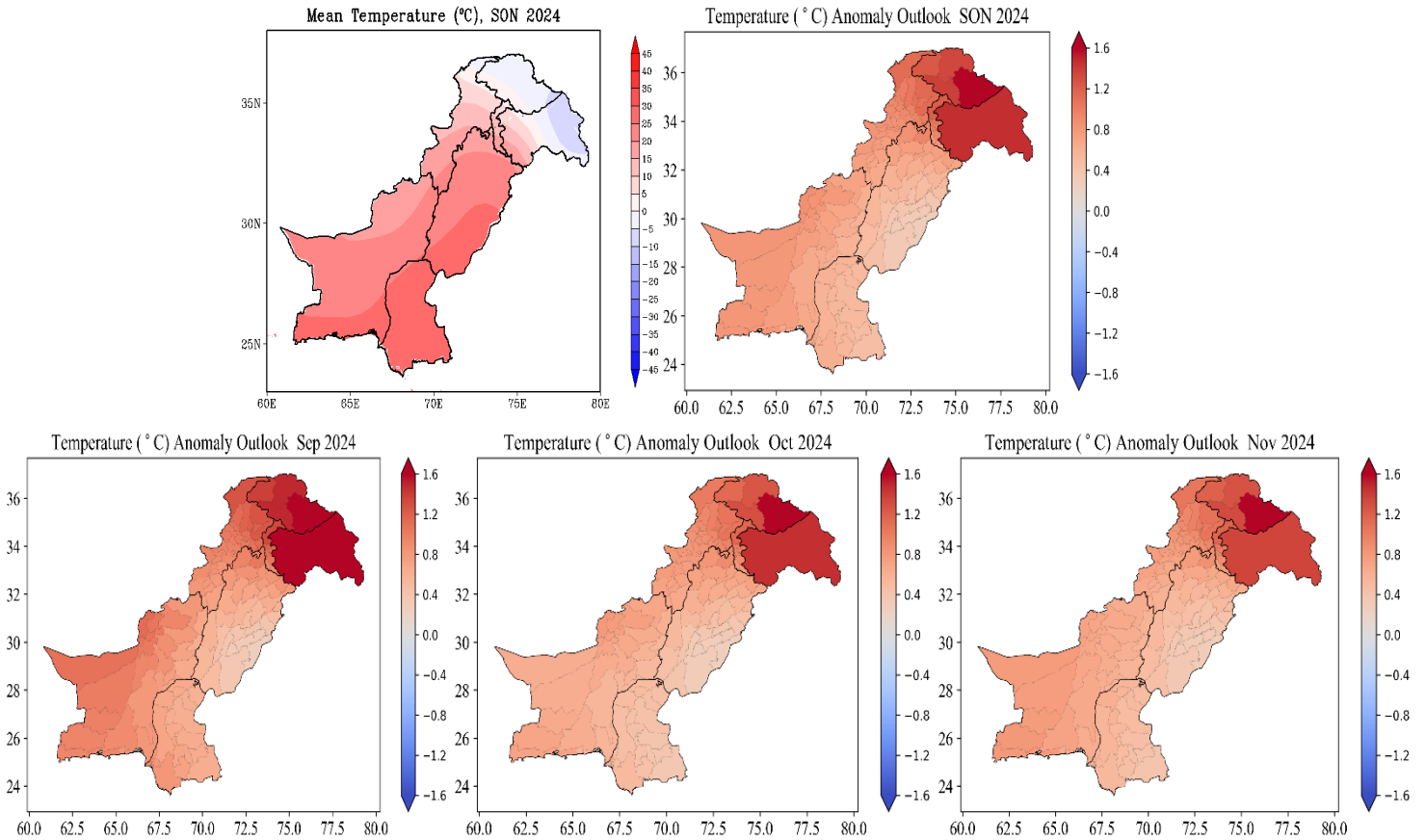
### **Month Wise Situation**

- During September 2024, above-normal precipitation is likely over most parts of the country particularly in Punjab and Sindh. Whereas, normal to slightly below normal rainfall is expected in Gilgit Baltistan, northeastern parts of Khyber Pakhtunkhwa and Azad Kashmir.
- During October 2024, above-normal precipitation is likely over most parts of the country, particularly in Sindh. Whereas normal to slightly below normal rainfall is expected in Gilgit Baltistan and adjoining areas of Azad Kashmir and upper Khyber Pakhtunkhwa.
- Mostly near normal precipitation is likely over most parts of the country during November 2024. However normal to slightly below normal rainfall is expected in Khyber Pakhtunkhwa, Gilgit Baltistan and adjoining areas of Azad Kashmir.



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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 particularly in Gilgit Baltistan and Kashmir during the period (SON), 2024.



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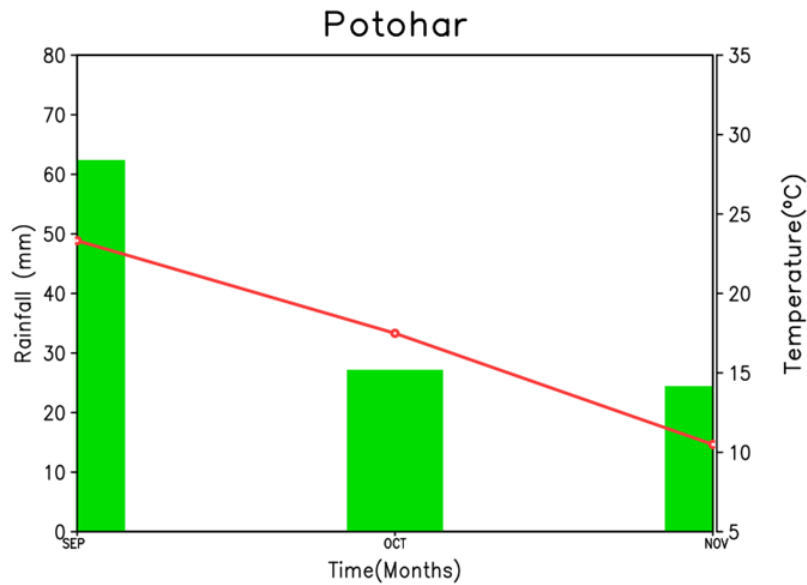
### **Month Wise Situation:**

- During September 2024, above-normal mean temperature is likely in most parts of the country particularly in Gilgit Baltistan, Kashmir, upper Khyber Pakhtunkhwa and western Baluchistan.
- Above normal mean temperature is likely in most parts of the country, particularly in Gilgit Baltistan during the months of October & November 2024.



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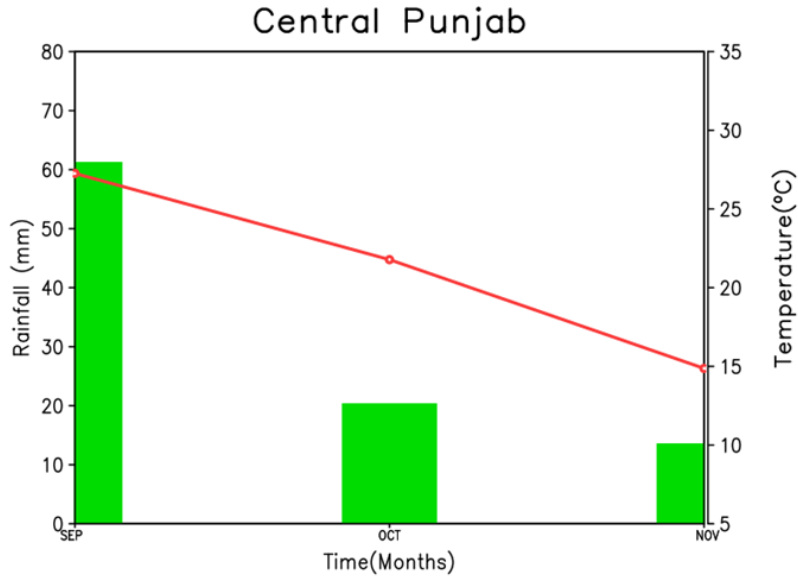
### Outlook for Agroclimatic Zones



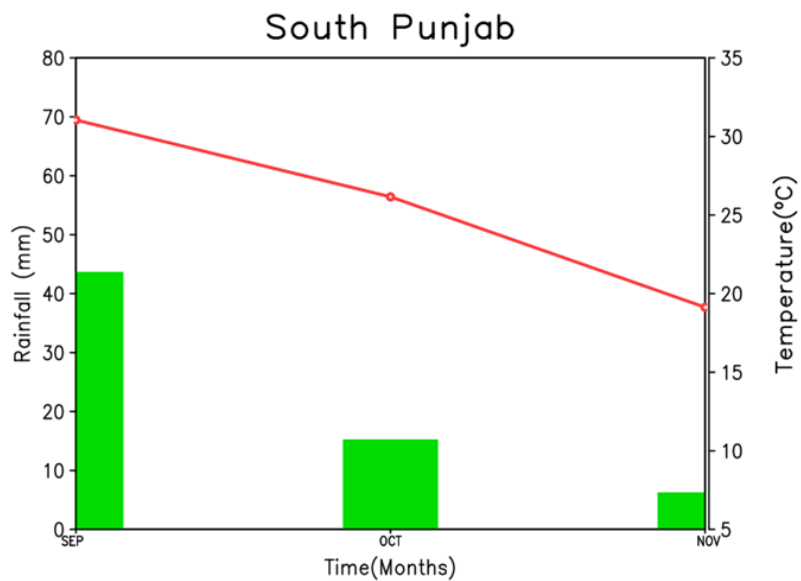
The **Potohar Region** is expected to receive a favorable amount of precipitation during the specified period (SON), especially in the month of September 2024. The mean temperature is expected to gradually decrease following the seasonal pattern.



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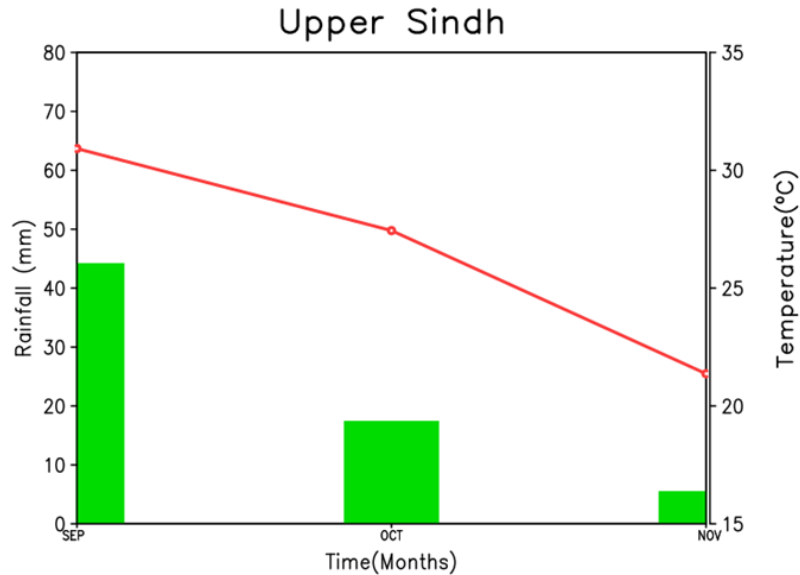
**Central Punjab** is expected to receive reasonable amount of rainfall during the specified period (SON), 2024. The mean temperature is projected to decrease as per seasonal pattern.



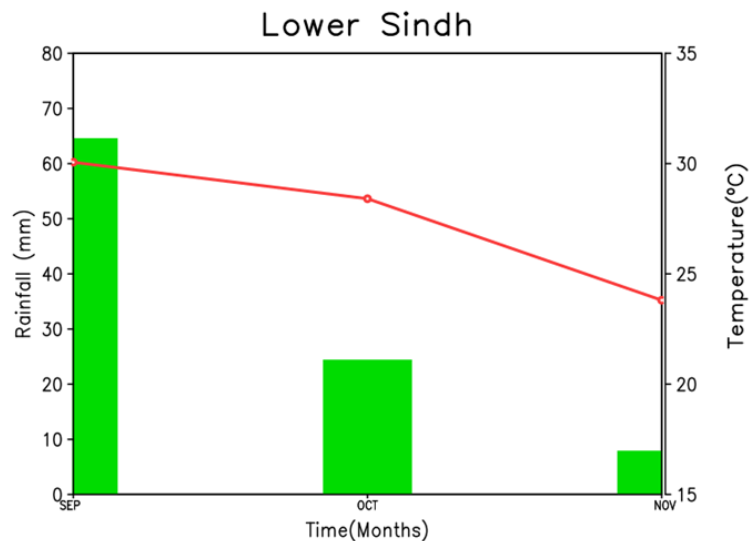
**Southern Punjab** is expected to receive comparatively lesser rains especially during the period (SON), 2024. The mean temperature is expected to decrease as per seasonal pattern.



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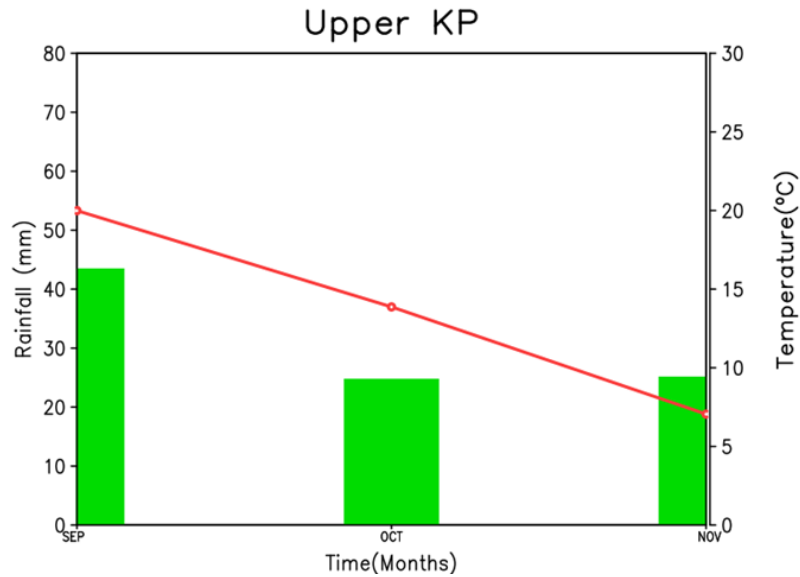
**Upper Sindh** is expected to receive a reasonable amount of rainfalls during the mentioned period (SON). The mean temperature is expected to gradually decrease following the seasonal pattern.



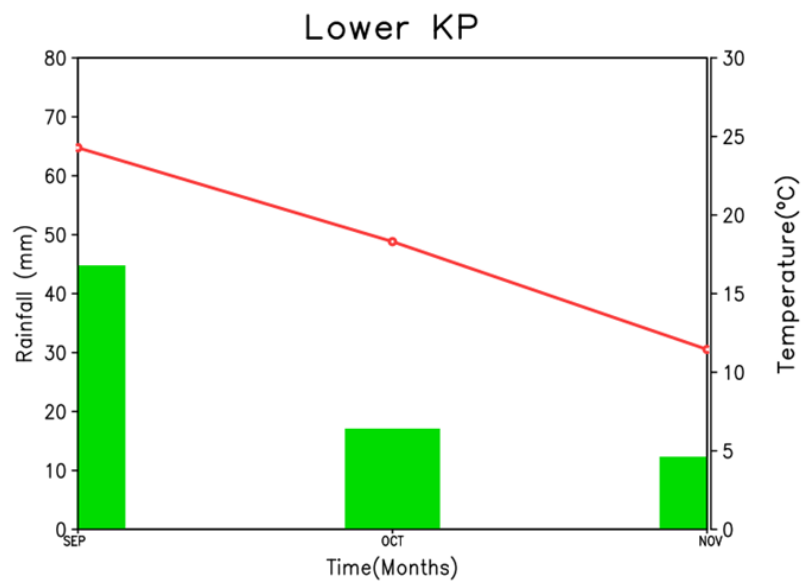
Similarly, **Lower Sindh** may receive considerable rains during the specified period (SON), particularly in the month of September 2024. The mean temperature is expected to gradually decrease following the seasonal pattern.



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**Upper Khyber Pakhtunkhwa** may receive satisfactory amount of precipitation throughout the period (SON). The mean temperature is expected to gradually decrease following the seasonal trend.

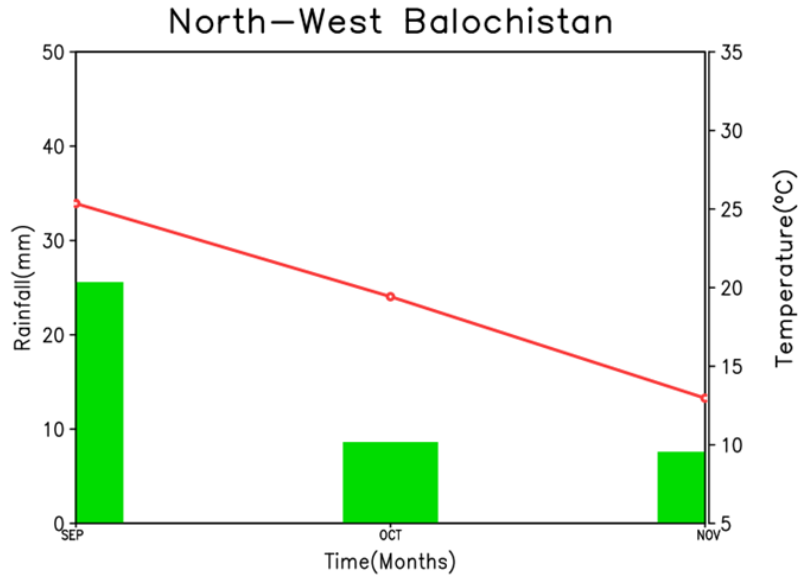


**Lower Khyber Pakhtunkhwa** may comparatively receive favorable amounts of precipitation during the period (SON), especially in the month of September 2024. The mean temperature is expected to decrease as per the seasonal pattern.

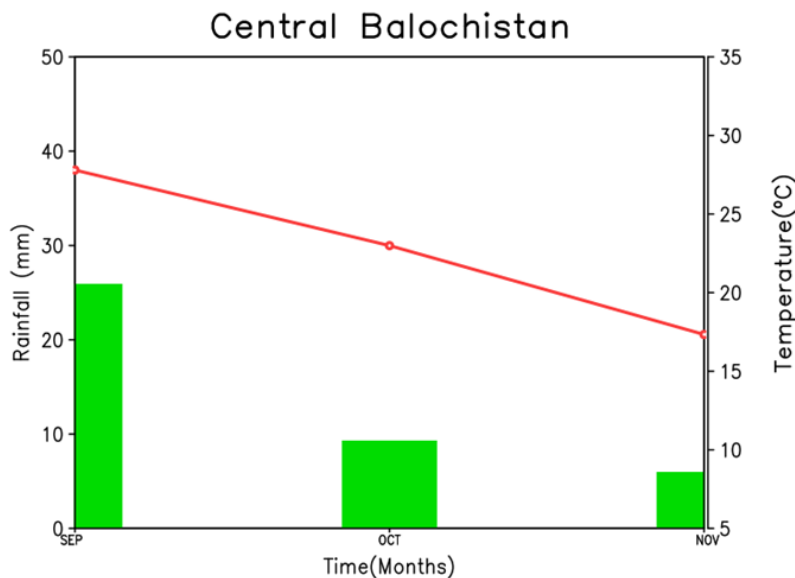




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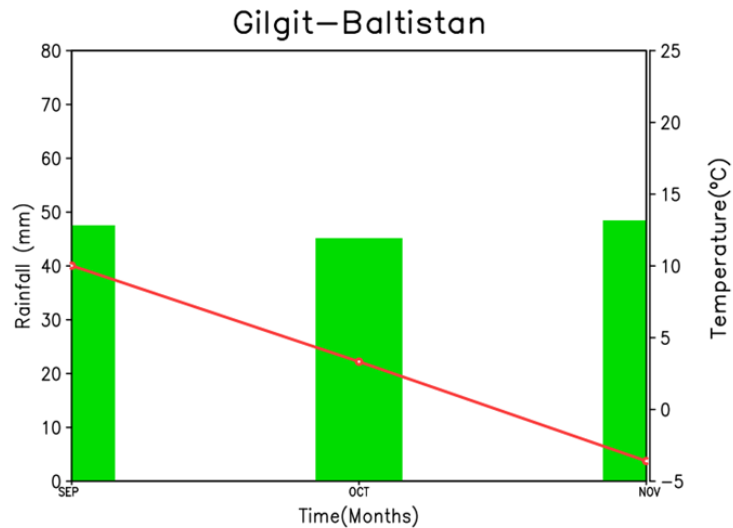
**North-Western Baluchistan** is expected to receive favorable amount of rainfall during the period (SON), particularly in September 2024. The mean temperature is expected to gradually decrease following the seasonal pattern.



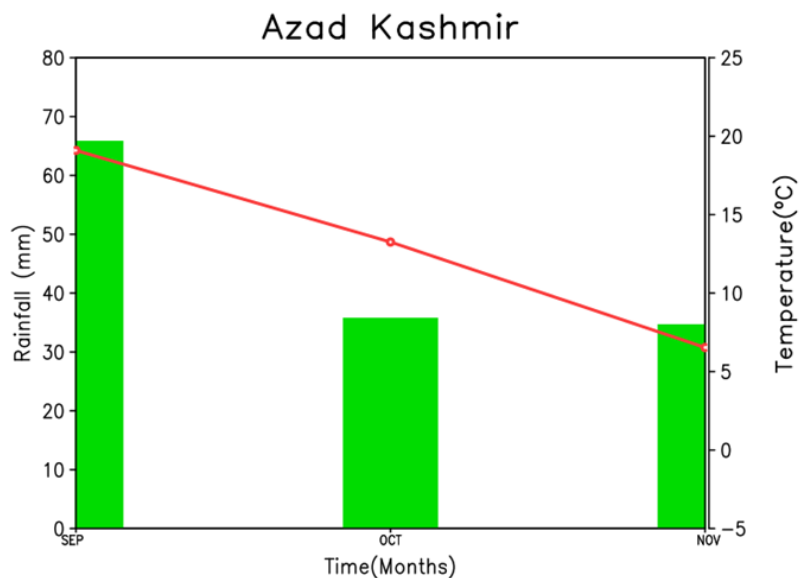
**Central Baluchistan** is expected to receive reasonable rainfalls during the of the period (SON), 2024. The mean temperature is expected to gradually decrease following the seasonal pattern.



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**Gilgit Baltistan** is expected to receive comparatively fewer amount of precipitation throughout the period (SON), 2024. The mean temperature is expected to decrease gradually following the seasonal pattern.



**Azad Jammu Kashmir** also receive a considerable amount of precipitation especially during the initial month of the period (SON) 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**

Due to satisfactory rainfall reported in most plains of the country, soil moisture condition is also favorable for most standing seasonal crops like cotton, peanut, sugarcane, seasonal vegetables, and orchards.

Nearly normal to above normal precipitation is likely in the agricultural plains of country during the next three months (SON), particularly in Punjab, Sindh, Baluchistan, and lower Khyber Pakhtunkhwa. Whereas below normal rains are expected in upper Khyber Pakhtunkhwa, Gilgit Baltistan and adjoining areas of Azad Kashmir.

The irrigation and spray-related activities for cotton, rice, sugarcane, peanut and gram crops may be scheduled following the expected weather conditions. Due to occurred and expected rains in Punjab, Sindh, Khyber Pakhtunkhwa, and Baluchistan, weeds growth and pest attacks are expected during most likely till first half of September 2024.