



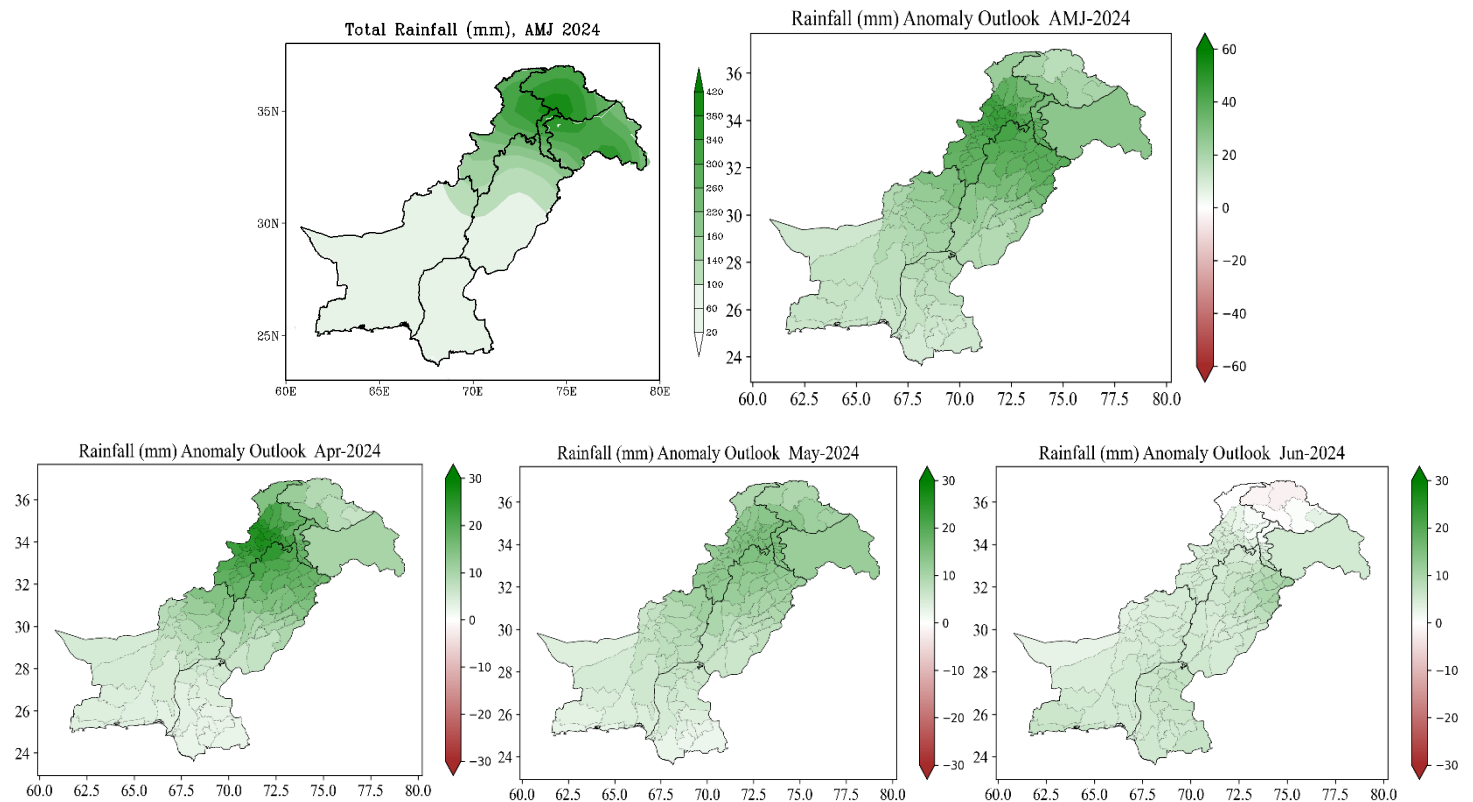
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## Seasonal Agro-Climat Outlook for April - June 2024

### 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 normal to slightly above normal precipitation is likely over most parts of the country during the next three months (AMJ), particularly in Khyber Pakhtunkhwa, Azad Kashmir and Potohar region.



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### **Month Wise Situation**

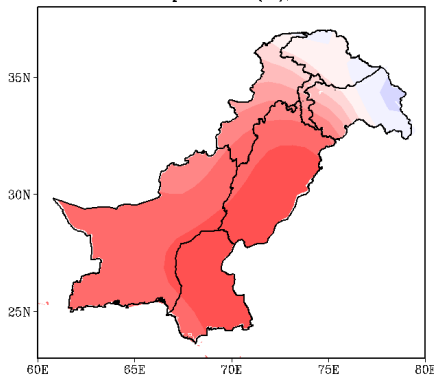
- During April 2024, normal to above normal precipitation is likely over most parts of the country, particularly in Khyber Pakhtunkhwa, Azad Kashmir and Potohar region.
- In May 2024, normal to slightly above normal precipitation is likely over most parts of the country.
- Almost normal rainfall is likely over most parts of the country during June 2024.



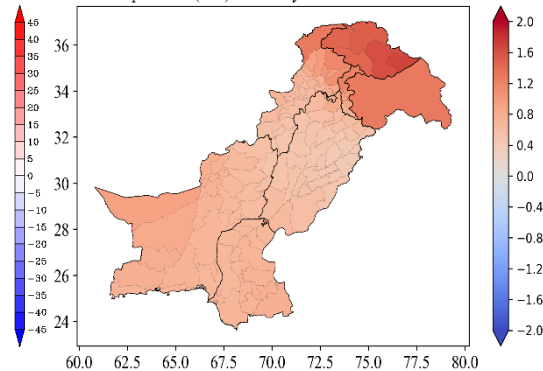
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## Seasonal Projections (Mean Air Temperature)

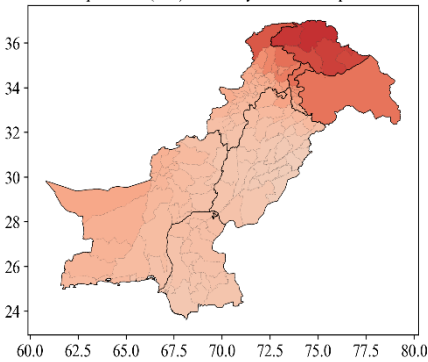
Mean Temperature (°C), AMJ 2024



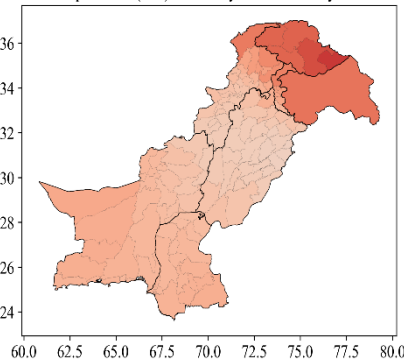
Temperature (°C) Anomaly Outlook AMJ 2024



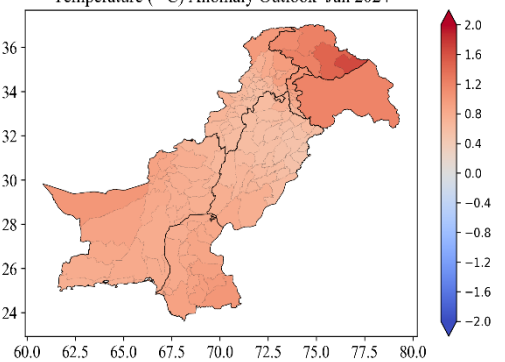
Temperature (°C) Anomaly Outlook Apr 2024



Temperature (°C) Anomaly Outlook May 2024



Temperature (°C) Anomaly Outlook Jun 2024



A tendency of nearly normal to slightly above-normal mean temperature is likely over most parts of the country particularly in the northern areas including northern belt of Khyber Pakhtunkhwa, Gilgit Baltistan and Kashmir during the period (AMJ).



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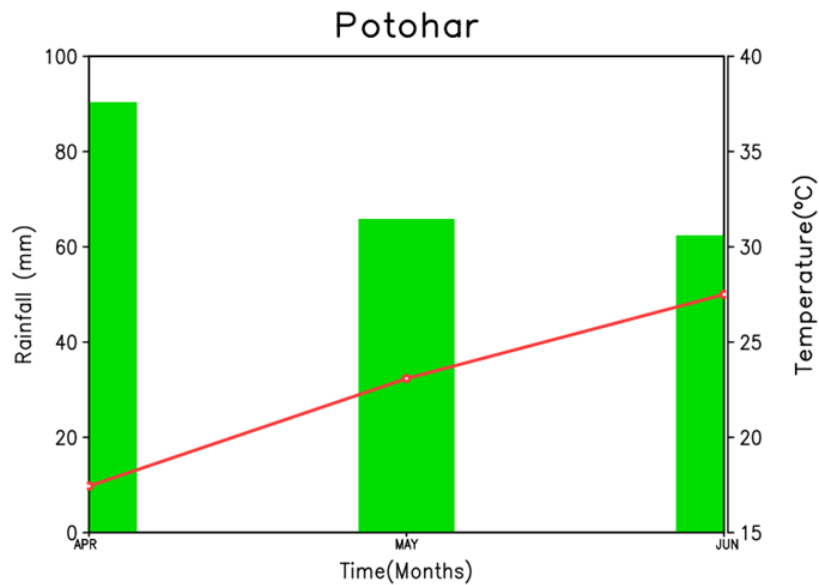
### **Month Wise Situation**

- During the months of April and May 2024, slightly above-normal mean temperature is likely over most of the upper parts of the country particularly northern belt of Khyber Pakhtunkhwa, Gilgit-Baltistan and Azad Kashmir. However, nearly normal mean temperatures are expected over the central and lower half of the country.
- Normal to slightly above-normal temperatures are expected in June 2024 in most parts of the country.



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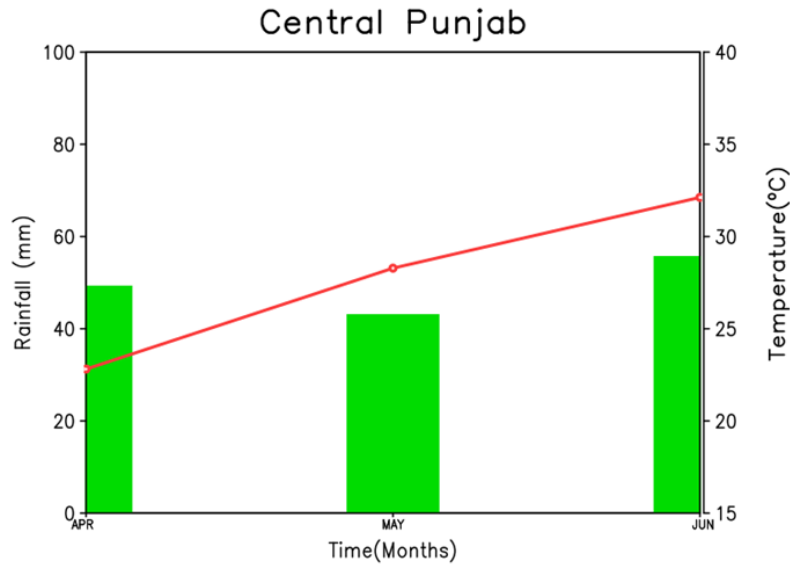
### Outlook for Agroclimatic Zones



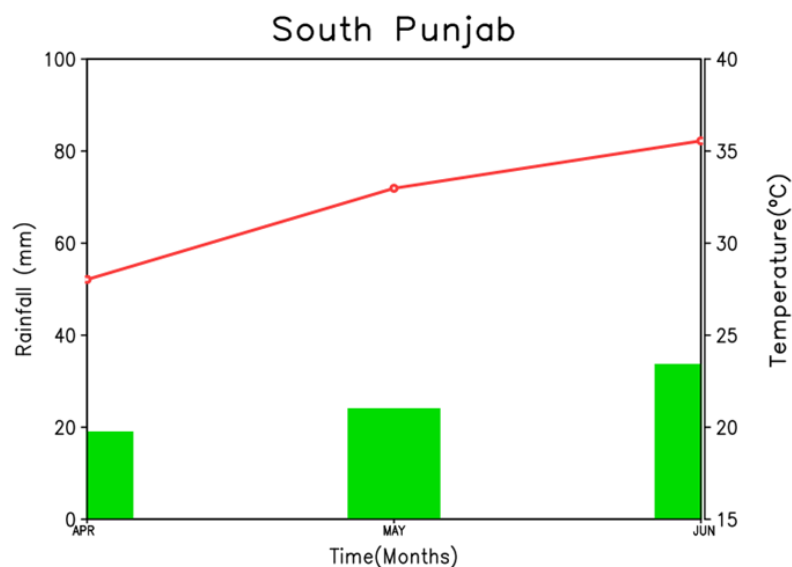
The **Potohar Region** is expected to receive a favorable amount of precipitation during the specified period (AMJ), especially in April. The mean temperature is expected to increase gradually following the seasonal pattern.



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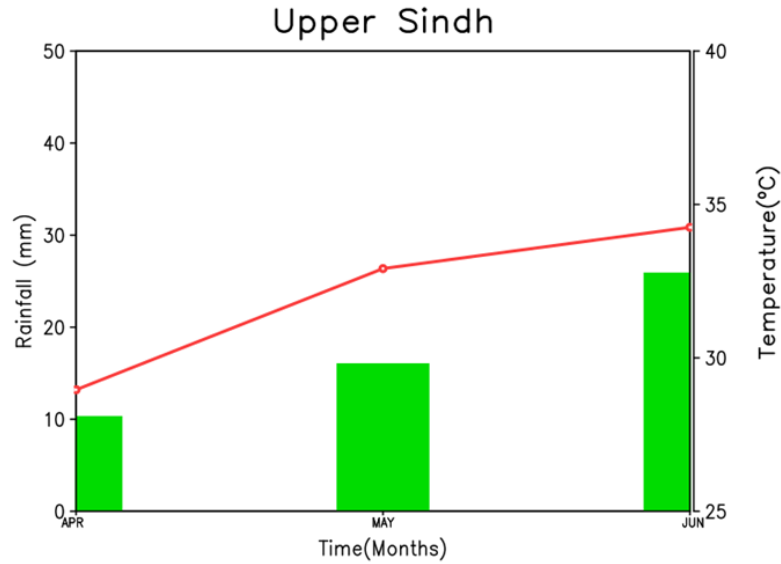
**Central Punjab** is expected to receive comparatively lesser rainfalls during the next three months period (AMJ). The mean temperature is projected to rise as per seasonal norms.



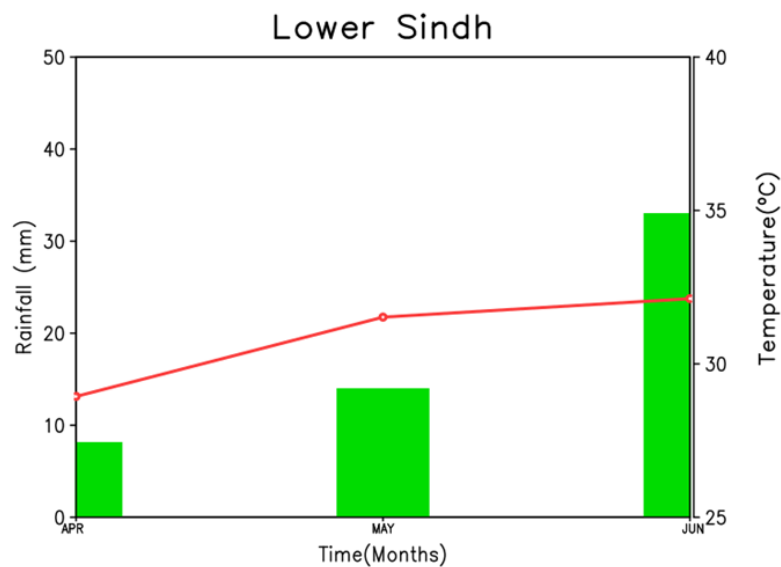
**Southern Punjab** is expected to receive fewer rainfalls during the mentioned period (AMJ). The mean temperature is expected to rise gradually following the seasonal norms.



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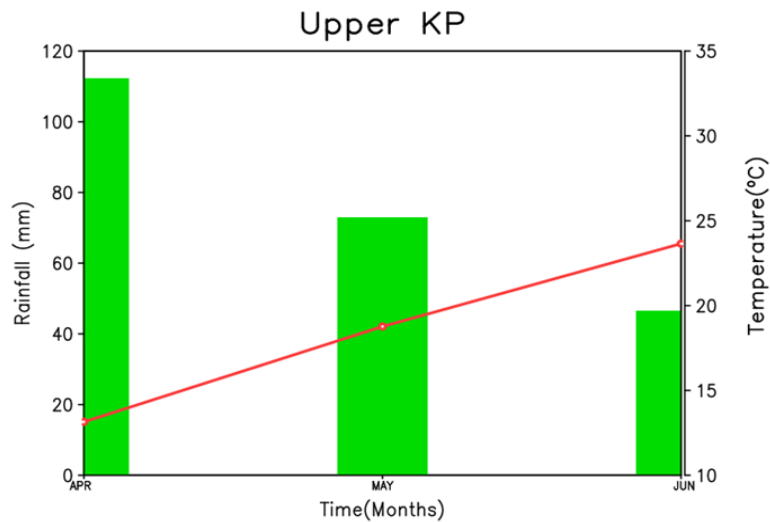
**Upper Sindh** is expected to receive a few rainfalls during the mentioned period (AMJ). The mean temperature is expected to increase steadily following the seasonal pattern.



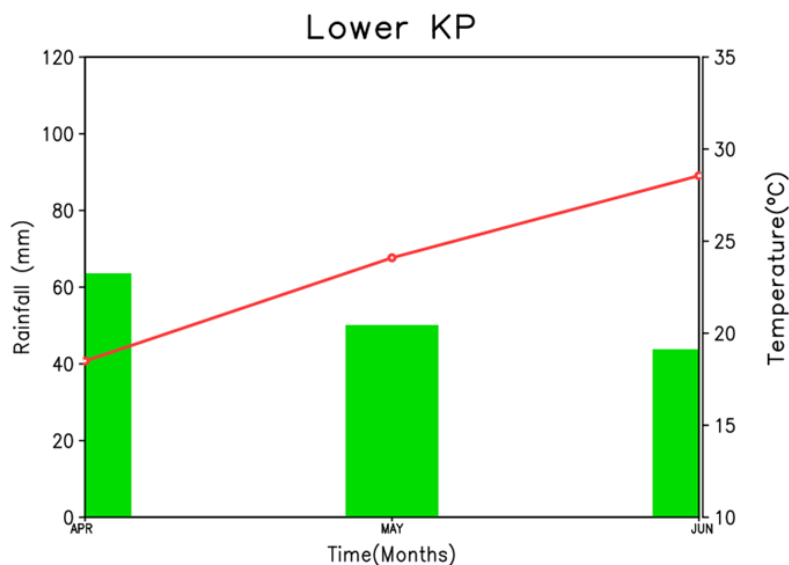
Similarly, **Lower Sindh** may receive very few rains during the specified period (AMJ). The mean temperature is expected to increase gradually as per seasonal pattern.



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**Upper Khyber Pakhtunkhwa** may receive a favorable amount of precipitation throughout the period (AMJ) particularly in April. The mean temperature is expected to increase gradually following the seasonal norms.

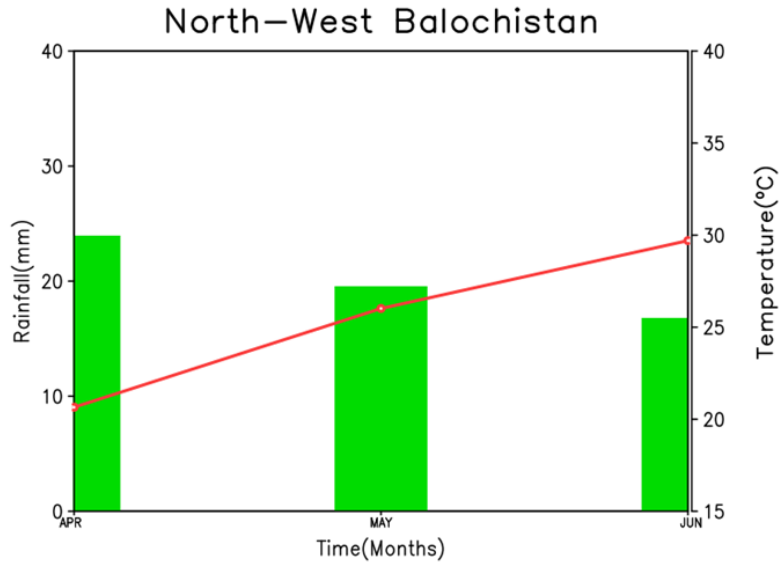


**Lower Khyber Pakhtunkhwa** may comparatively receive fewer amount of precipitation during the period (AMJ). The mean temperature is expected to rise gradually as per seasonal pattern.

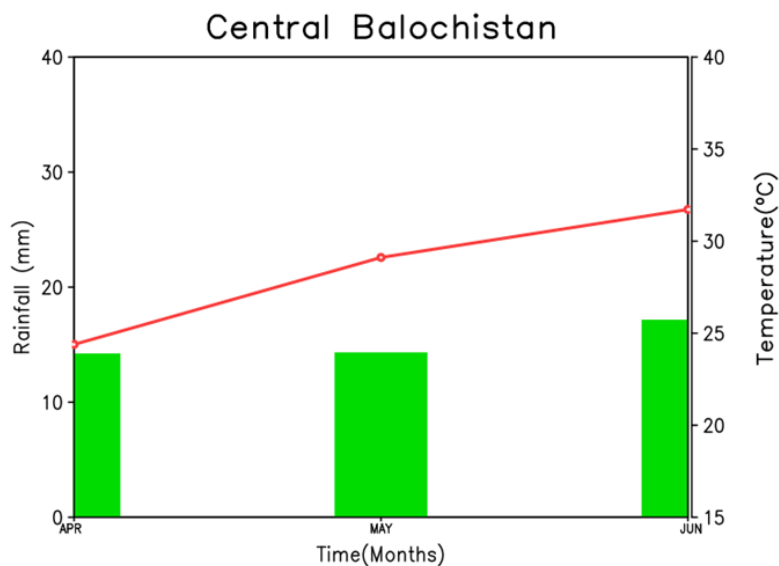




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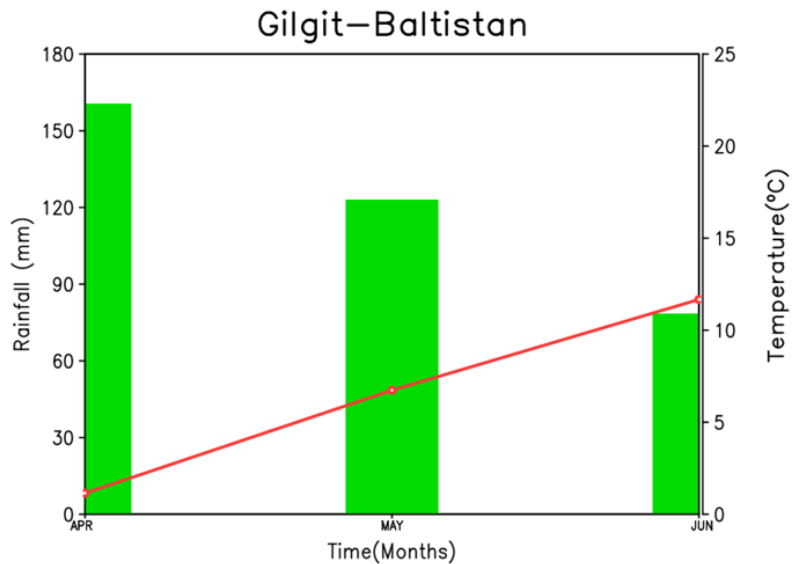
**North-Western Balochistan** may receive lower amount of precipitation throughout the period (AMJ). The mean temperature is expected to rise following the seasonal pattern.



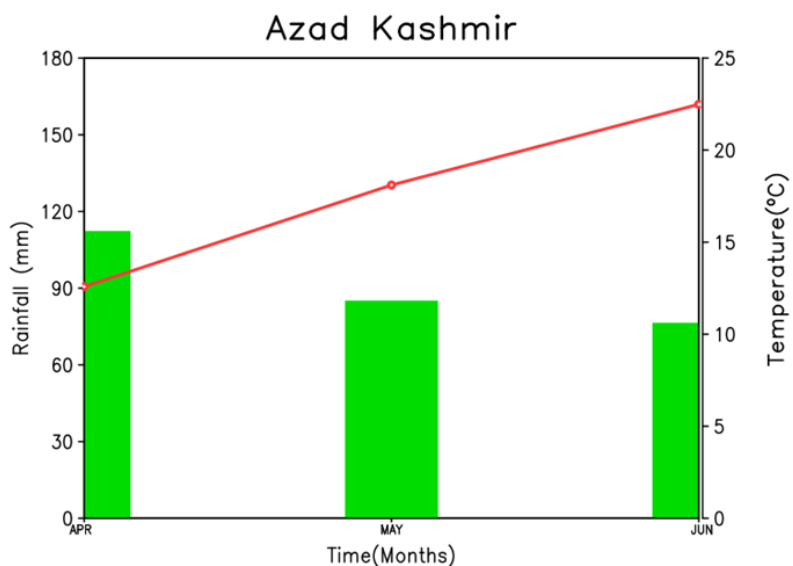
**Central Balochistan** is expected to receive fewer rainfalls during the period (AMJ). The mean temperature is expected to increase gradually as per seasonal norms.



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**Gilgit Baltistan** is expected to receive a favorable amount of precipitation throughout the period (AMJ), especially during April. The mean temperature is expected to increase steadily following the seasonal pattern.



**Azad Jammu Kashmir** would also receive a considerable amount of precipitation during the period (AMJ). The mean temperature is expected to increase gradually as per seasonal norms.



### **Advisories for Farmers Based on the Recent and Expected Weather conditions**

At present, the major agricultural soils (particularly in the upper half) hold a considerable moisture based on the recently prevailed weather conditions. Accordingly, the standing crops and vegetable/orchards have been growing with almost satisfactory pace in most parts of the country. However, isolated wind/thunder/hailstorm along with light to moderate precipitation particularly in the upper half has affected the seasonal crops, vegetables and orchard.

During the next three months (AMJ), in addition to seasonal increase in temperatures, quantitatively fewer rains are expected in the country especially over the central parts & lower half which would cause gradual declination in the moisture contents in the agricultural plains of the particular regions. Therefore, additional irrigation would be required for upcoming Kharif crops and vegetables in the lower half of the country.

On the other hand, April holds significant importance for the harvesting of wheat crops in the upper half of the country. Strong winds, thunderstorms, along with rains and occasional hail events are expected at specific locations in the upper half during April-May. Therefore, the harvesting / post-harvesting activities for wheat and rest of Kharif crops may be scheduled in accordance with the expected weather conditions.