



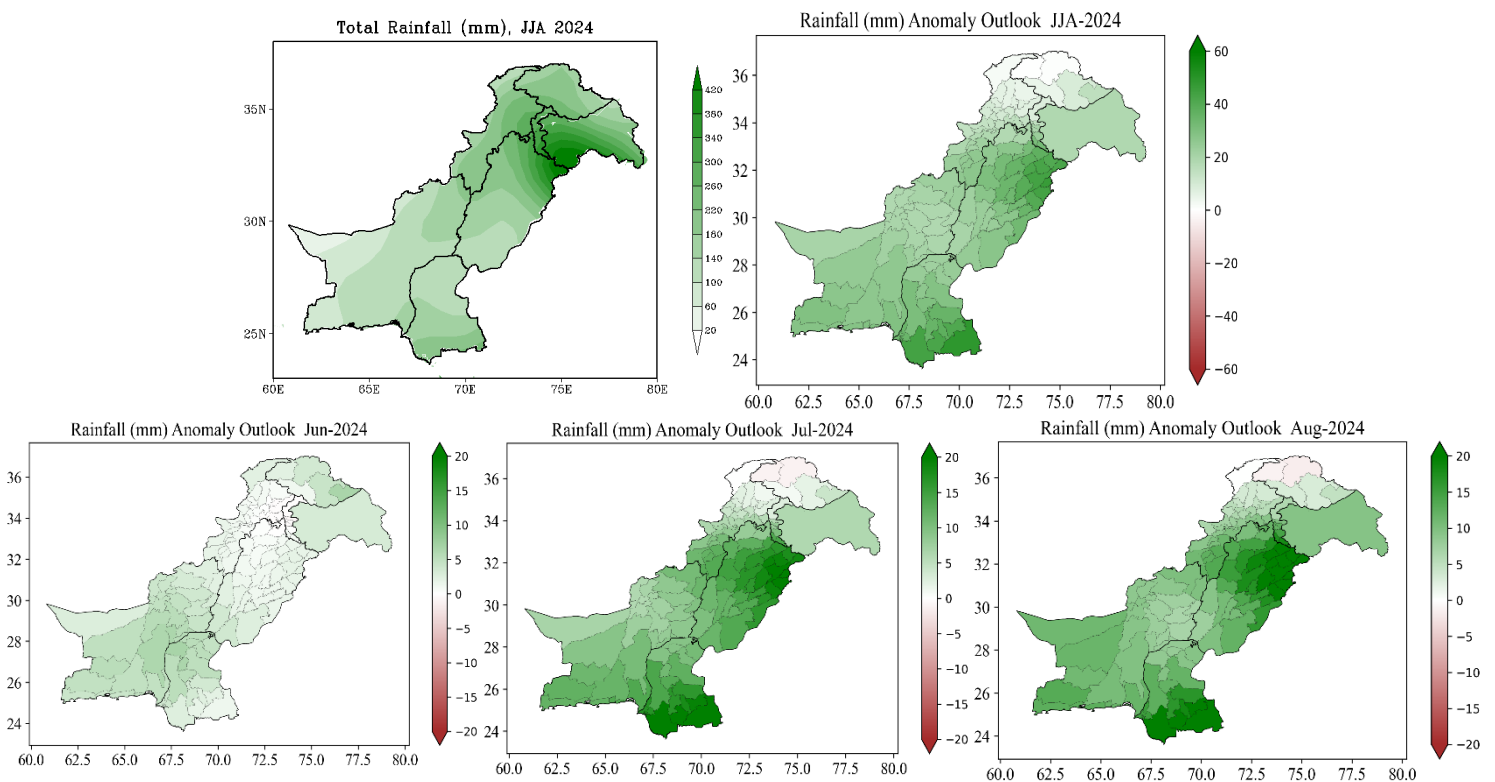
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## Seasonal Agro-Climat Outlook for June – August 2024

### **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 (JJA) particularly in northeastern & central Punjab and southern parts of Sindh. Whereas, normal rainfall is expected in Gilgit Baltistan and adjoining areas of upper Khyber Pakhtunkhwa.



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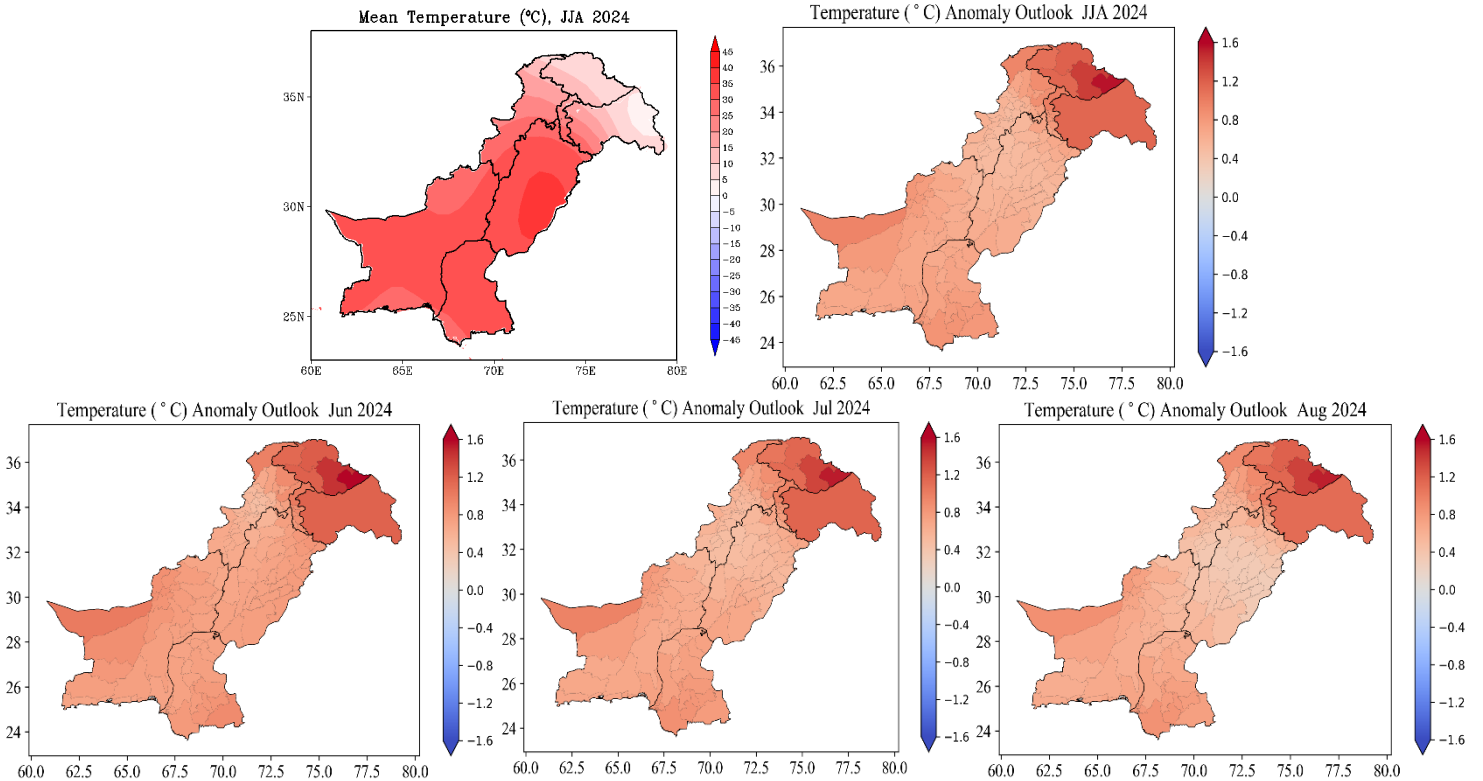
### **Month Wise Situation**

- During June 2024, nearly normal precipitation is likely over most parts of the country.
- During July and August 2024, above normal precipitation is likely over most parts of the country particularly Punjab, Sindh, lower Khyber Pakhtunkhwa, Kashmir and some coastal and western parts of Baluchistan while nearly normal rainfall expected in Gilgit Baltistan, adjoining areas of upper Khyber Pakhtunkhwa.



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## **Seasonal Projections (Mean Air Temperature)**



A tendency of above-normal mean temperature is likely over most parts of the country particularly in Gilgit Baltistan and Kashmir during the period (JJA).

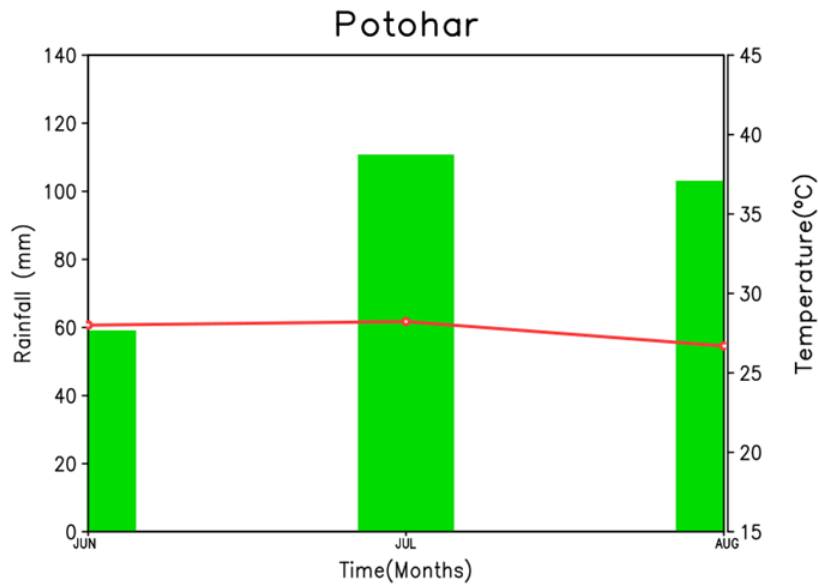
### **Month Wise Situation:**

- During the months of June & July 2024, above normal mean temperature is likely in most parts of the country, particularly in Gilgit Baltistan and Kashmir.
- During August 2024, above normal mean temperature is likely in most parts of the country, particularly in Gilgit Baltistan and Kashmir. However, near normal mean temperature is expected in central Punjab and lower parts of Khyber Pakhtunkhwa.



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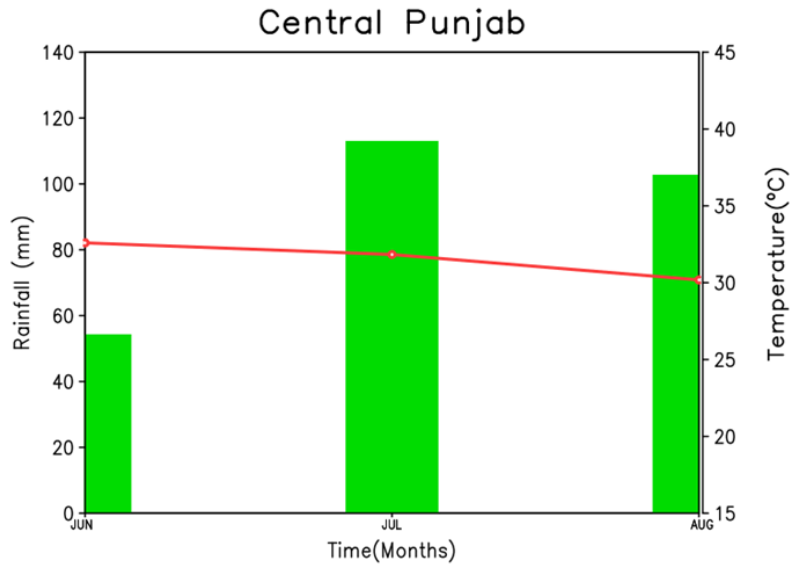
### Outlook for Agroclimatic Zones



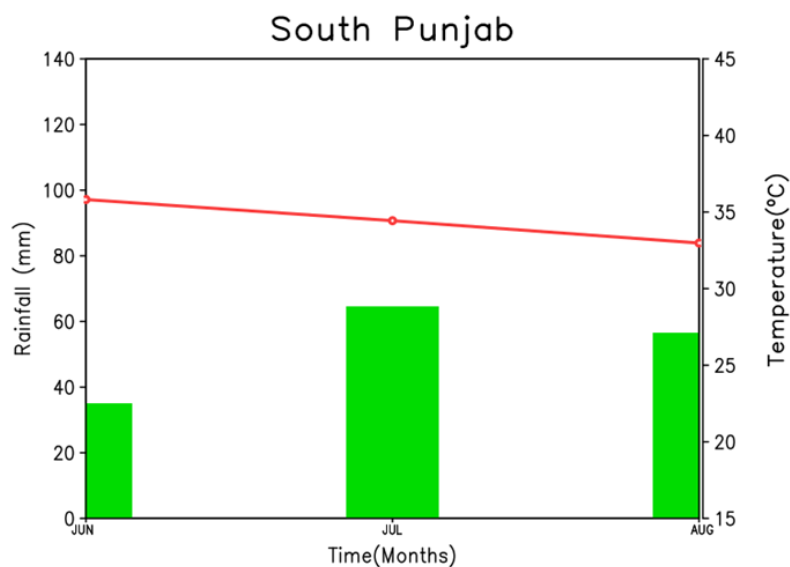
The **Potohar Region** is expected to receive a favorable amount of precipitation during the specified period (JJA), especially in the month of July 2024. The mean temperature is expected to increase in July and gradually decrease in August following the seasonal pattern.



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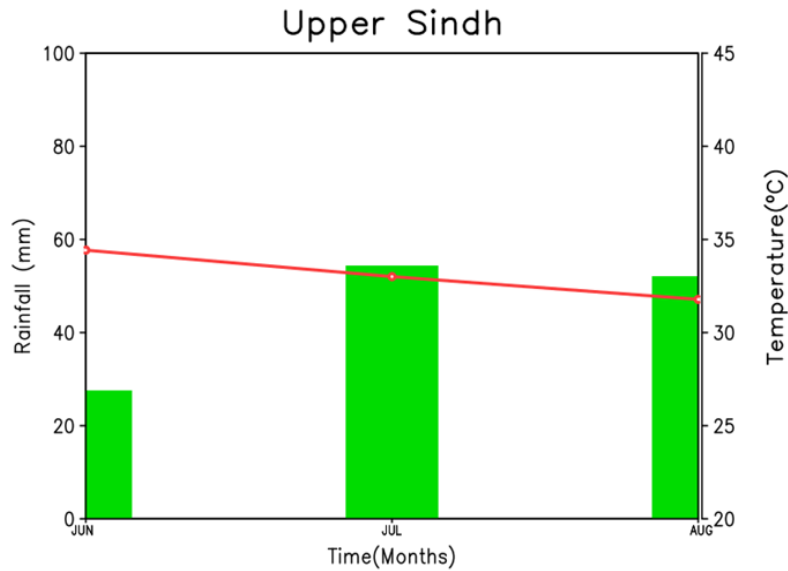
**Central Punjab** is expected to receive reasonable rainfall during the next three months period (JJA). The mean temperature is projected to gradually decrease as per seasonal pattern.



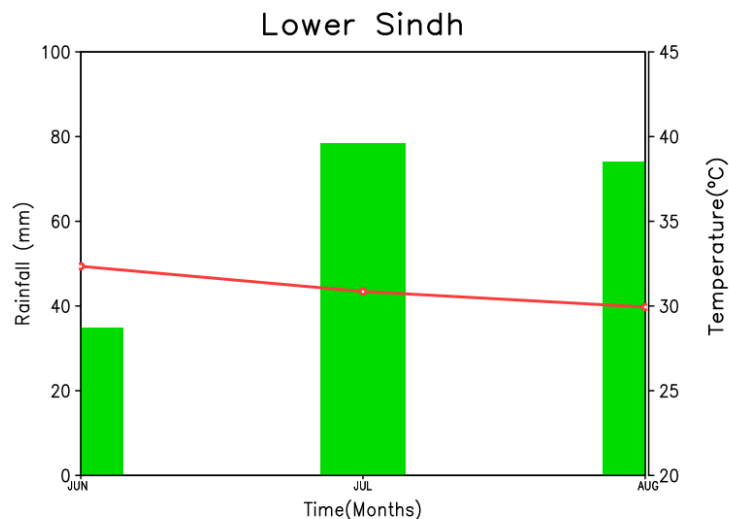
**Southern Punjab** is expected to receive favorable rainfalls especially during the last two months of the period (JJA). The mean temperature is expected to decrease slightly towards the end of the season.



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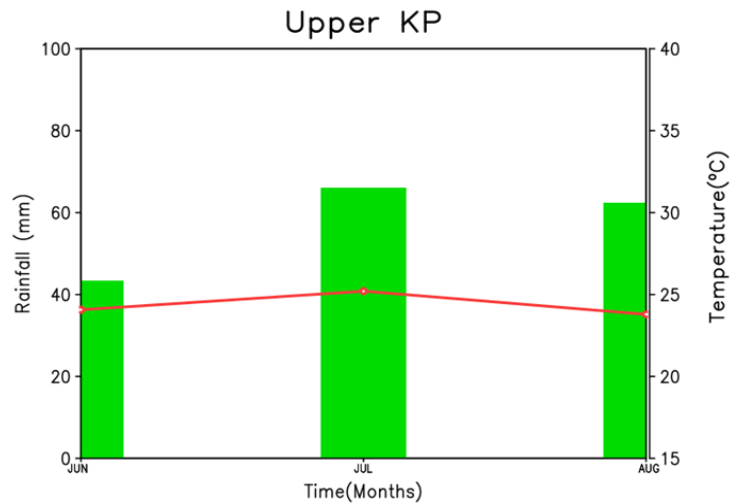
**Upper Sindh** is expected to receive a reasonable amount of rainfalls during the mentioned period (JJA). The mean temperature is expected to gradually decrease following the seasonal pattern.



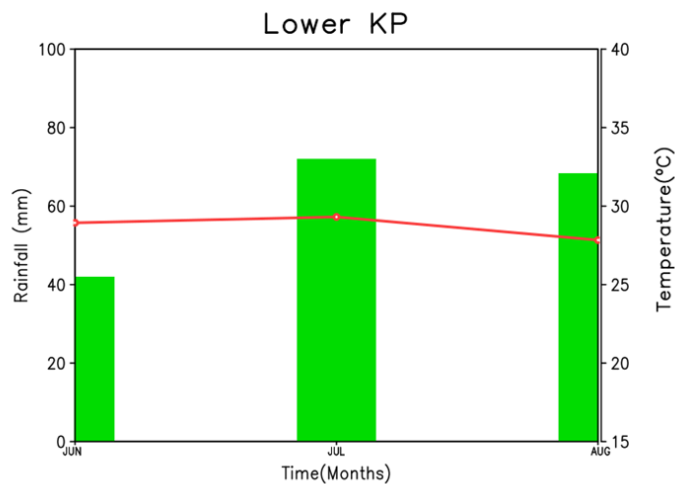
Similarly, **Lower Sindh** may receive considerable rains during the specified period (JJA), especially in the month of July. The mean temperature is expected to gradually decrease following the seasonal pattern.



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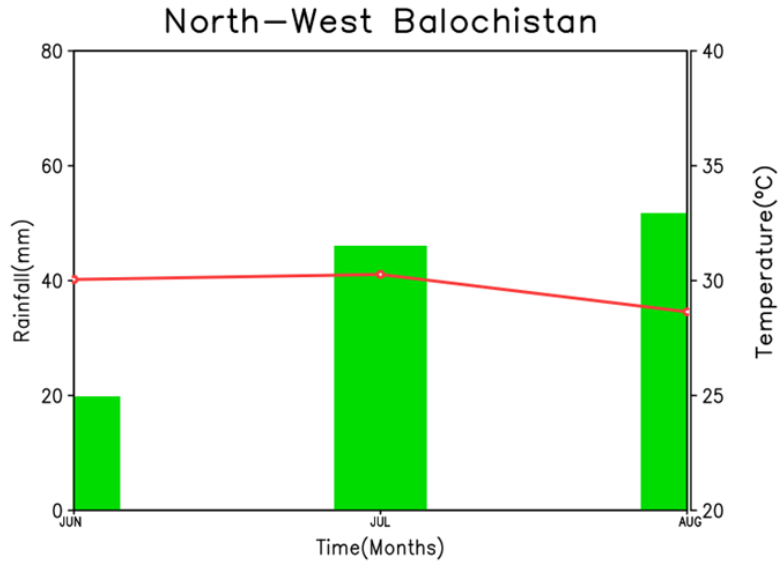
**Upper Khyber Pakhtunkhwa** may receive fewer amount of precipitation throughout the period (JJA). The mean temperature is expected to increase in July and gradually decrease again in August following the seasonal trend.



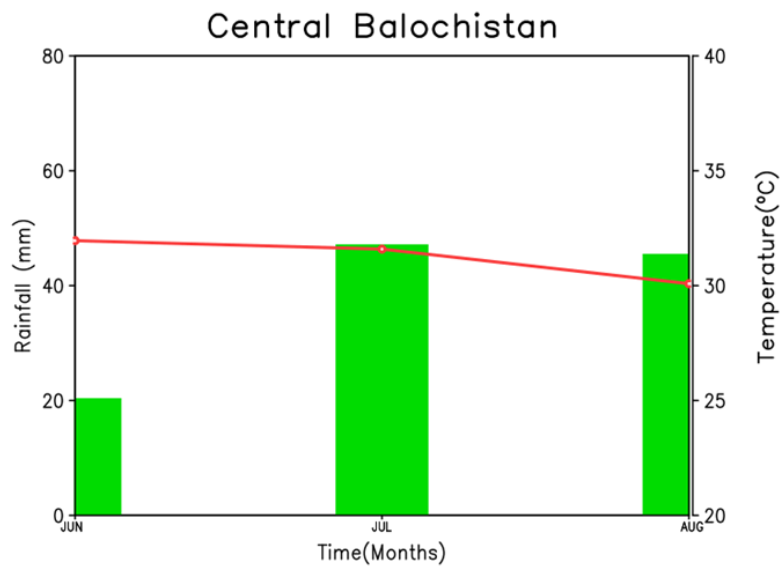
**Lower Khyber Pakhtunkhwa** may comparatively receive favorable amounts of precipitation during the period (JJA). The mean temperature is expected to increase in July and slightly decrease again in August 2024 as per the seasonal pattern.



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**North-Western Balochistan** is expected to receive favorable amount of rainfall during the last two months of the period JJA 2024. The mean temperature is expected to increase in July and gradually decrease again in August following the seasonal pattern.

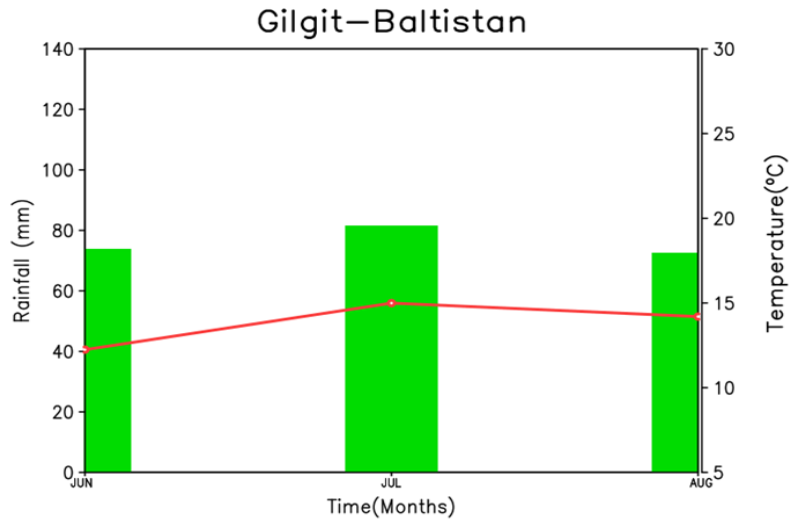


**Central Balochistan** is expected to receive reasonable rainfalls during the last two months of the period JJA 2024. The mean temperature is expected to gradually decrease following the seasonal pattern.

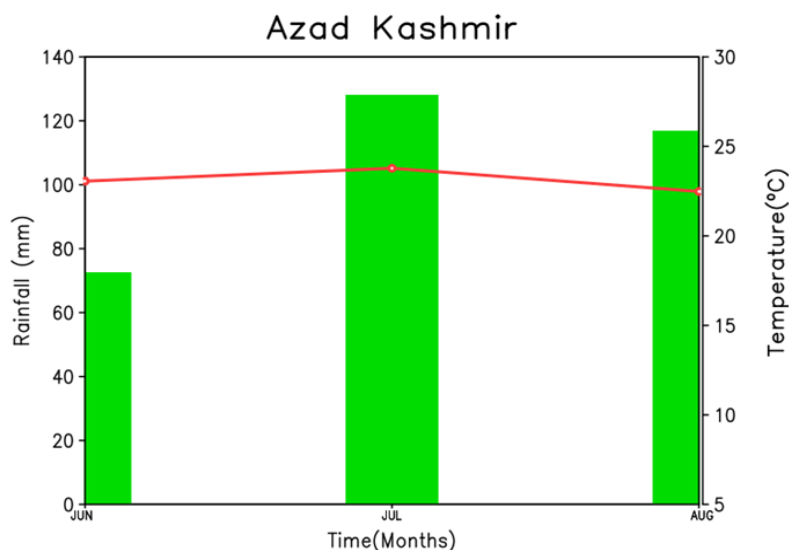




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**Gilgit Baltistan** is expected to receive fewer amount of precipitation throughout the period JJA 2024. The mean temperature is expected to increase in July and decrease gradually in August following the seasonal pattern.



**Azad Jammu Kashmir** would also receive a considerable amount of precipitation during the period (JJA) especially during the month of July & August 2024. The mean temperature is expected to slightly increase in July and gradually decrease in August following the seasonal pattern.



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

Based on recent extreme heat wave events, the amount of soil moisture available is currently under stress in most parts of the country. Accordingly, the seasonal crops like cotton, peanut, sugarcane, seasonal vegetables and orchards are under water stress and require additional irrigation in most parts of the country.

During the next three months (JJA 2024), in addition to seasonal increase in temperatures, quantitatively normal to above normal monsoon rains are expected in the country especially over the upper parts of Punjab & southern Sindh. These rains are likely to reduce water stress conditions and may produce reasonable moisture contents for healthier growth of standing crops and vegetables in most parts the country.

During expected monsoon season, strong winds / thunderstorm along with heavy rains are expected in particular regions. Accordingly, the irrigation and spray related activities for cotton, rice, sugarcane, peanut and grams crops may be scheduled in the light of expected weather conditions.