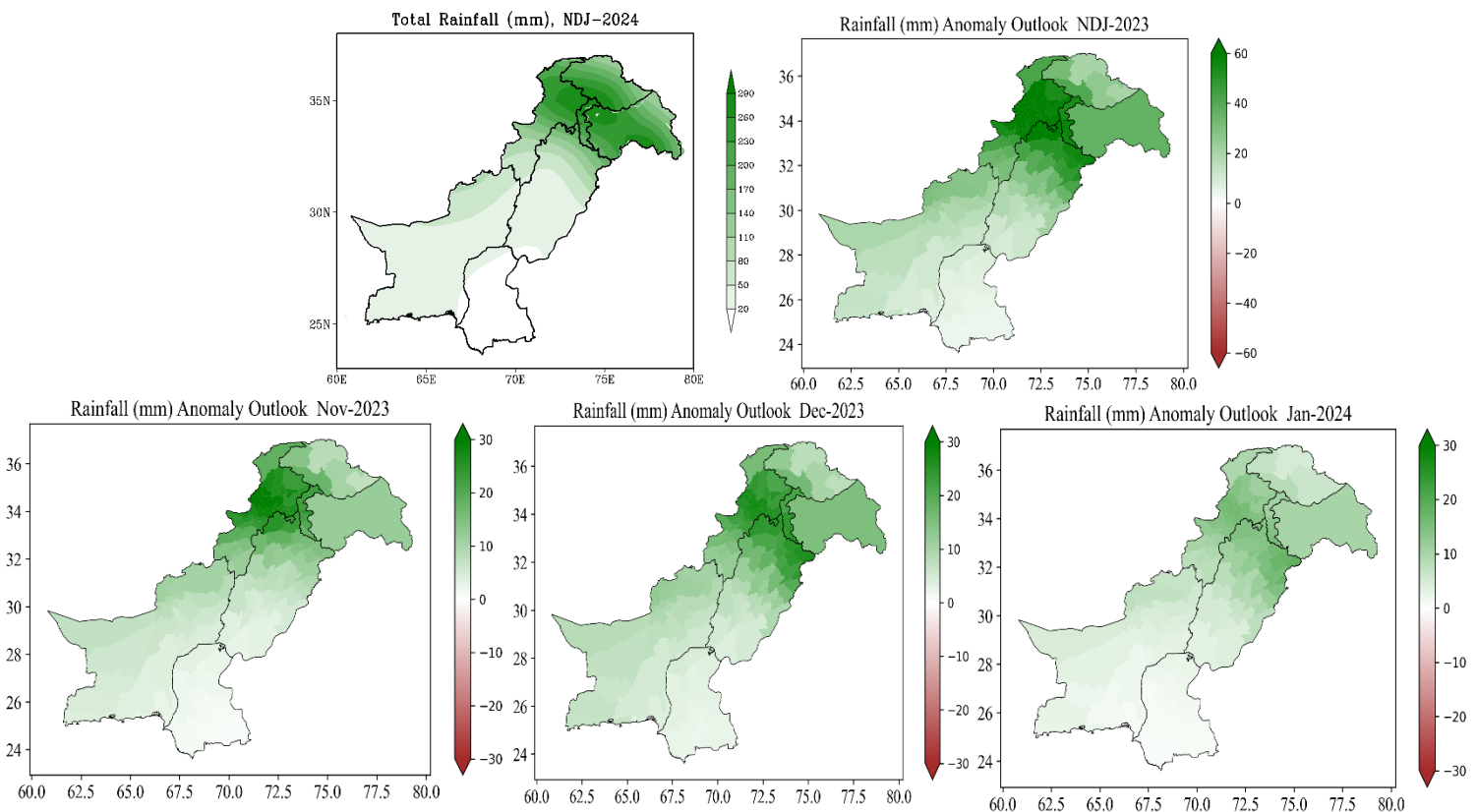


## Seasonal Agro-Climat outlook for November 2023 - January 2024

### **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)**



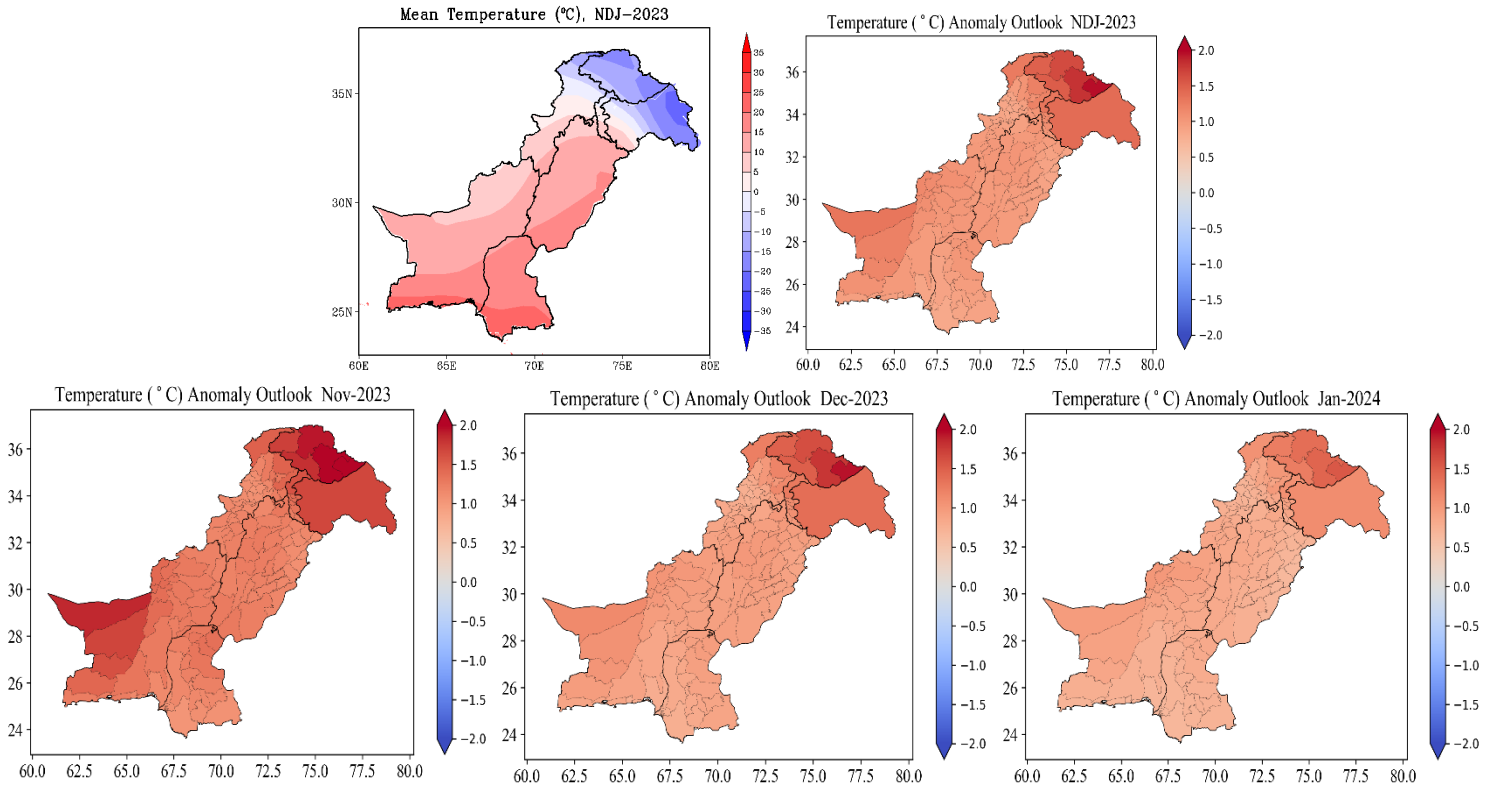
A tendency of normal to slightly above normal precipitation is likely over most parts of the country during the next three months (NDJ) particularly over the northwestern parts along northeastern belt of Punjab.



### **Month Wise Situation**

- During November 2023, nearly normal to slightly above rainfall (snowfall over the high mountain in upper Khyber Pakhtunkhwa) is likely over the northwestern parts of the country. While normal rains are expected over the plains of Southern Punjab and Sindh.
- In December 2023, nearly normal to slightly above normal precipitation is expected over most parts of the country particularly the upper parts including northeastern belt of Punjab and Khyber Pakhtunkhwa. However, normal rains are expected over the plains of Southern Punjab and Sindh.
- Nearly normal precipitation is likely over most of the lower half of the country particularly Sindh, Baluchistan and southern parts of Punjab during January 2024 whereas slightly above normal rains (snowfall over the high mountain in upper Khyber Pakhtunkhwa) is likely over northeastern belt of Punjab and Khyber Pakhtunkhwa.

## Seasonal Projections (Mean Air Temperature)



A tendency of normal to slightly above normal mean temperature is likely over most parts of the country during the period (NDJ) particularly the northeastern region including Gilgit Baltistan and Kashmir.

### Month Wise Situation

- During November 2023, slightly above normal mean temperature is likely in most parts of the country particularly over western Baluchistan and northeastern parts of the country including Gilgit Baltistan and Kashmir.
- Nearly normal to slightly above normal mean temperatures are expected in most parts of the country particularly eastern belt of Gilgit Baltistan and Kashmir during December 2023.
- Nearly normal to slightly above normal mean temperatures are expected in most parts of the country particularly during January 2024.



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

At present, the major agricultural soils (particularly in the upper half) hold considerable reserves of the moisture contents based on the good rains during the month of October whereas the lower parts of the country especially Baluchistan and Sindh under water stress due to less rains. Accordingly, the standing crops and vegetable/orchards are growing with satisfactory pace in most parts of the country.

During the next three months (NDJ), in addition to seasonal decrease in temperatures, slightly above normal rains (along with snow over the high mountains) are expected in the country especially over the upper parts.

Importantly, October/November is the starting month for the sowing of Rabi crops in most of the agricultural plains of the country particularly over the lower half. Farmers of these regions may complete their sowing in time and arrange additional irrigation for healthier growth of their crops at initial level. Besides, the farmers of other regions should complete the harvesting of their Kharif crops in time and prepare the fields for sowing of upcoming Rabi crops in November.