

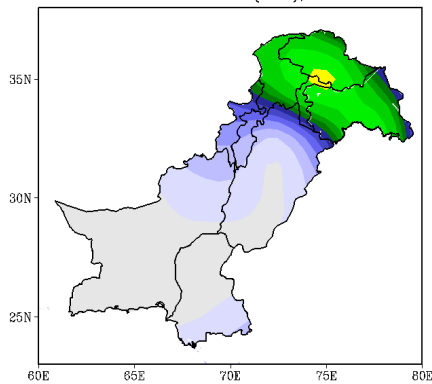
Seasonal Agro-Climat outlook for October-December 2022

Brief Introduction

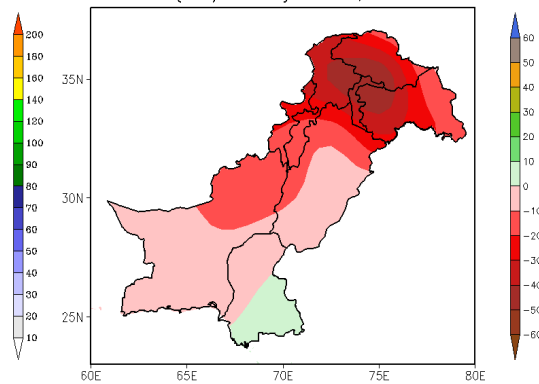
Pakistan Meteorological Department issues monthly and seasonal forecast at the end of each month using global climate models. As the result of a single model and single data set are not considered reliable for prediction and forecast for a longer period, therefore models developed by different institutes 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)

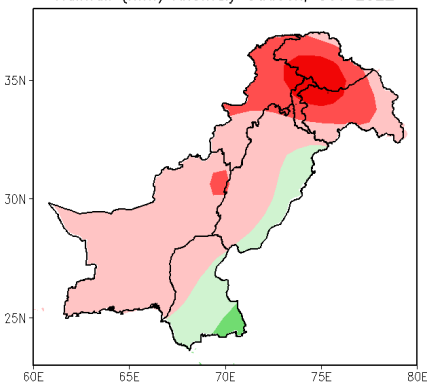
Accumulated Rainfall (mm), OND-2022



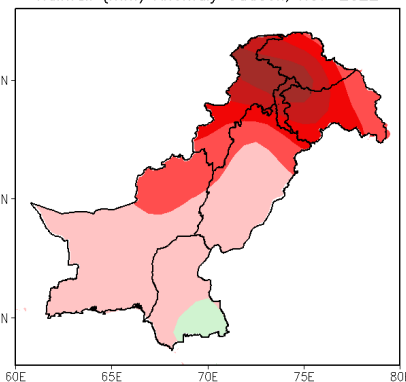
Rainfall (mm) Anomaly Outlook, OND-2022



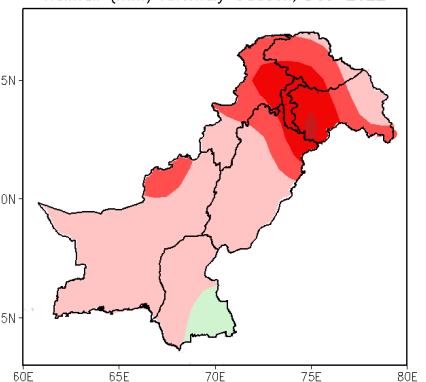
Rainfall (mm) Anomaly Outlook, Oct-2022



Rainfall (mm) Anomaly Outlook, Nov-2022



Rainfall (mm) Anomaly Outlook, Dec-2022



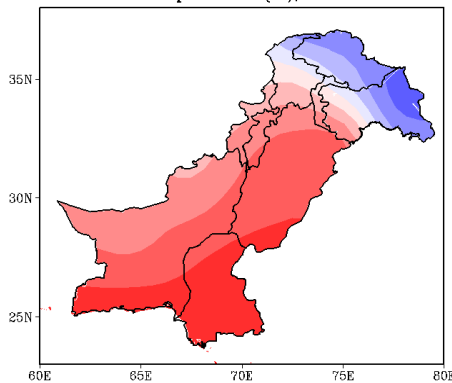
A tendency of normal to below normal precipitation is likely over the country during the season (OND) except southeastern Sindh where rainfall is expected to remain normal to slightly above normal.

Month Wise Situation

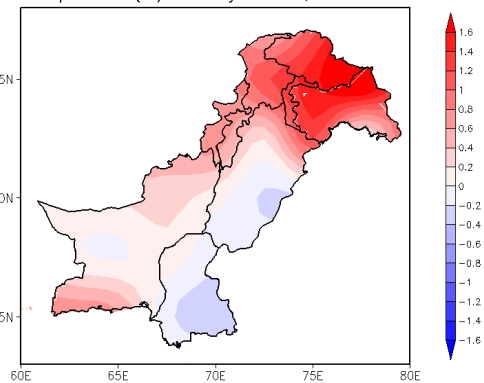
- Slightly above normal rainfall (with snowfall over the high mountains) is expected over the southeastern belt of Sindh while nearly normal over the rest of Sindh, Punjab, Baluchistan and lower KP during October 2022. Whereas, areas covering upper KP, GB and Kashmir may have considerably below normal rains.
- Nearly normal rainfall (with snowfall over the high mountains) is likely over lower half of the country during November 2022. While, the rest parts including northeastern Baluchistan, northern to northeastern Punjab, KP, GB and Kashmir may receive below normal precipitation.
- Nearly normal rainfall (with snowfall over the high mountains) is likely over most of the lower half of the country during December 2022. While, Quetta valley, northern to northeastern Punjab, upper KP, GB and Kashmir may receive below normal precipitation.

Seasonal Projections (Air Temperature)

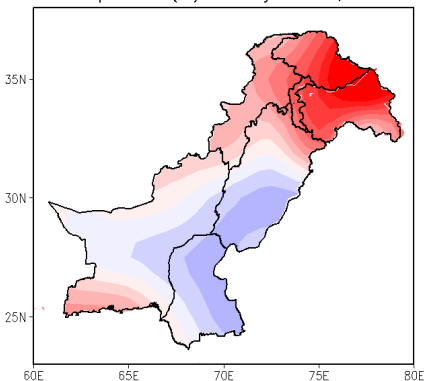
Mean Temperature (°C), OND-2022



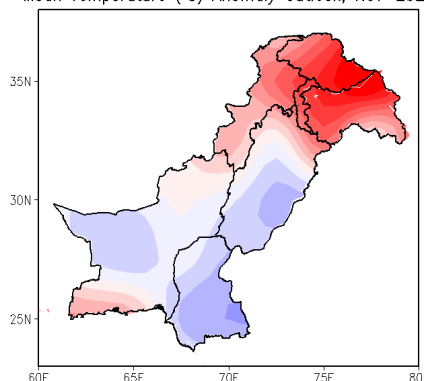
Temperature (°C) Anomaly Outlook, OND-2022



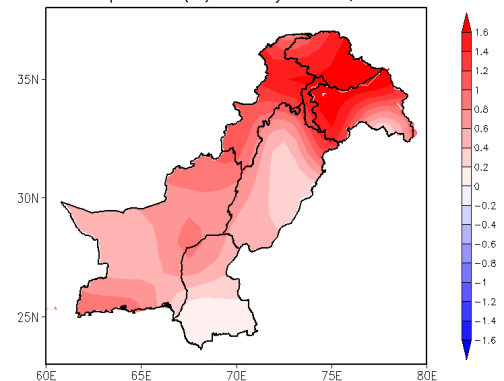
Mean Temperature (°C) Anomaly Outlook, Oct-2022



Mean Temperature (°C) Anomaly Outlook, Nov-2022



Mean Temperature (°C) Anomaly Outlook, Dec-2022





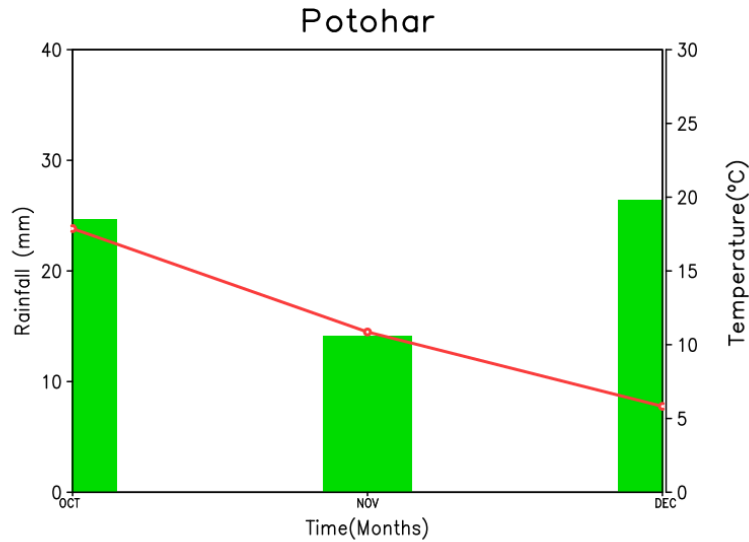
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A tendency of nearly normal to above normal mean temperatures are expected in most parts the country except particular parts of western Baluchistan, Sindh and central to southern Punjab where temperatures are expected to remain slightly below normal during the period (OND).

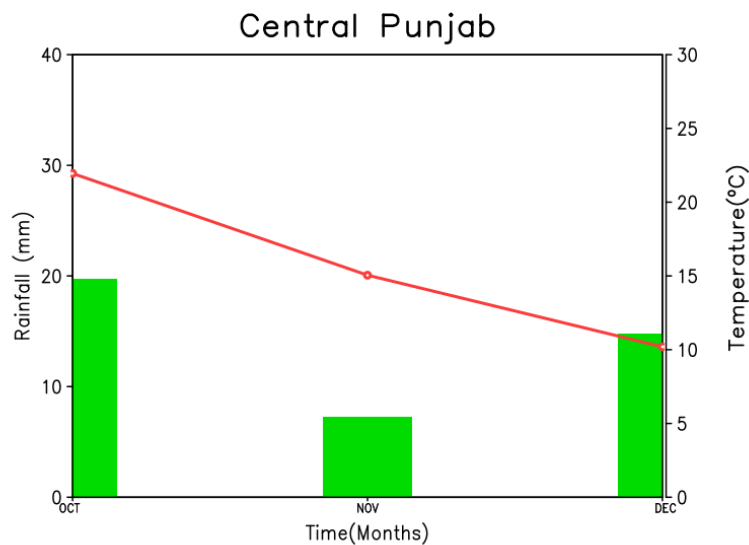
Month Wise Situation

- Nearly normal to below normal mean temperatures are expected in most parts of Baluchistan, Sindh, Central and South Punjab during October & November 2022.
- Nearly normal to above normal mean temperatures are likely over the country during December 2022 especially over upper KP, GB and Kashmir.

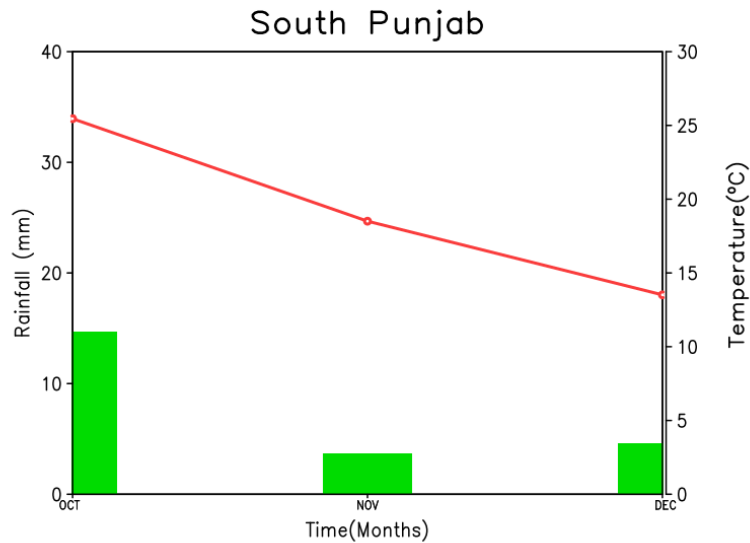
Outlook for Agroclimatic Zones



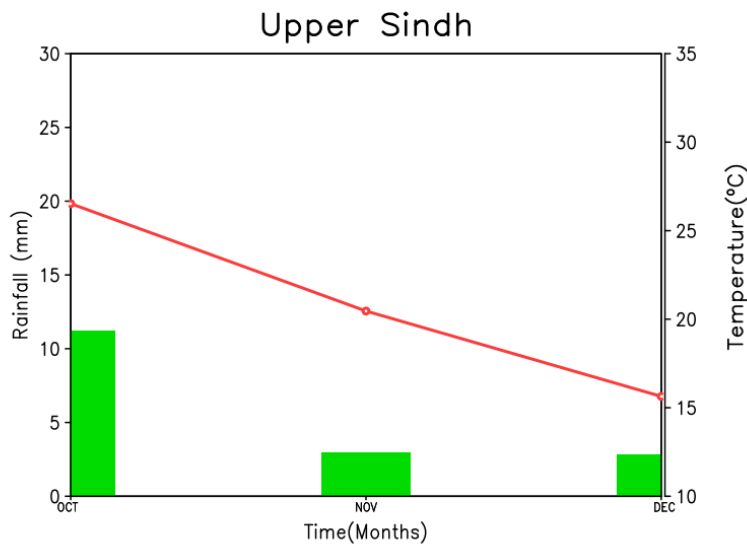
The **Potohar Region** is expected to receive fewer precipitation throughout the period particularly during November. The mean temperature is expected to decrease following the seasonal pattern.



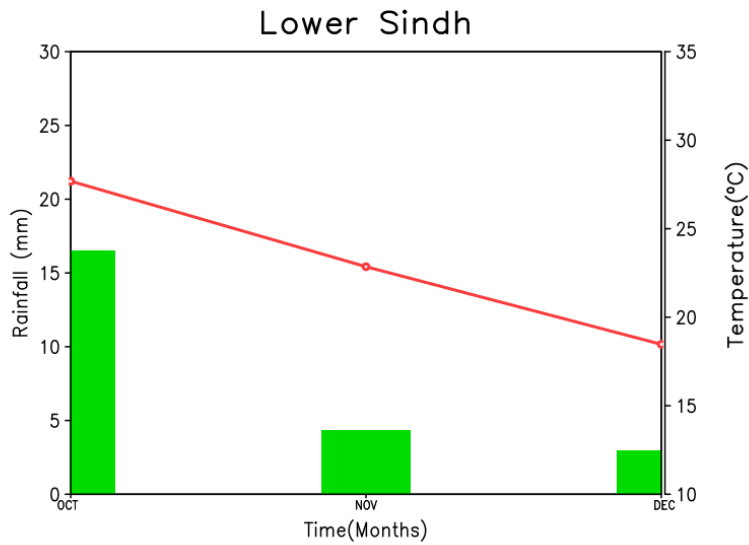
Similarly, **Central Punjab** is expected to receive lesser rainfalls during the period. The mean temperature is projected to decrease following the seasonal pattern.



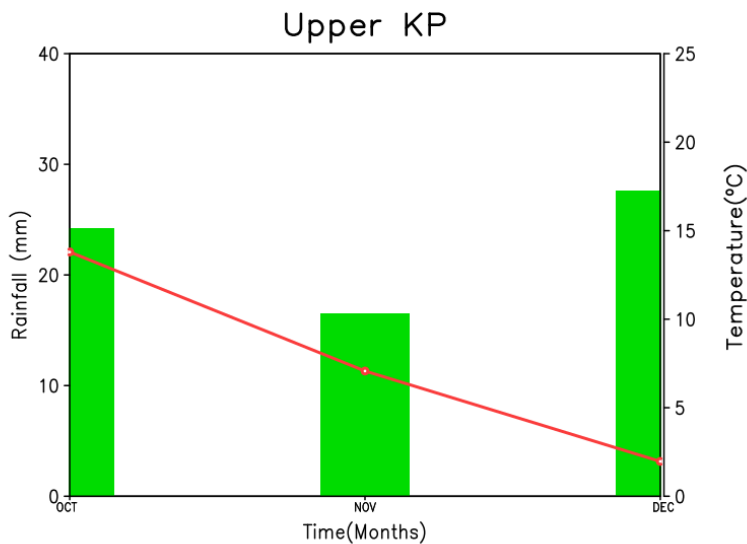
Southern Punjab is expected to receive very few rainfalls during the next three months. The mean temperature may decrease gradually following the seasonal pattern.



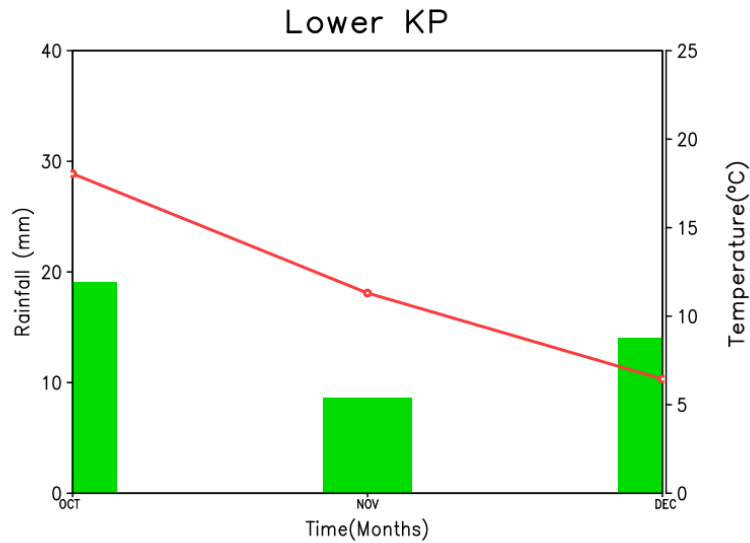
Upper Sindh is expected to receive fewer amount of rainfall during the period. The mean temperature is expected to decrease gradually following the seasonal pattern.



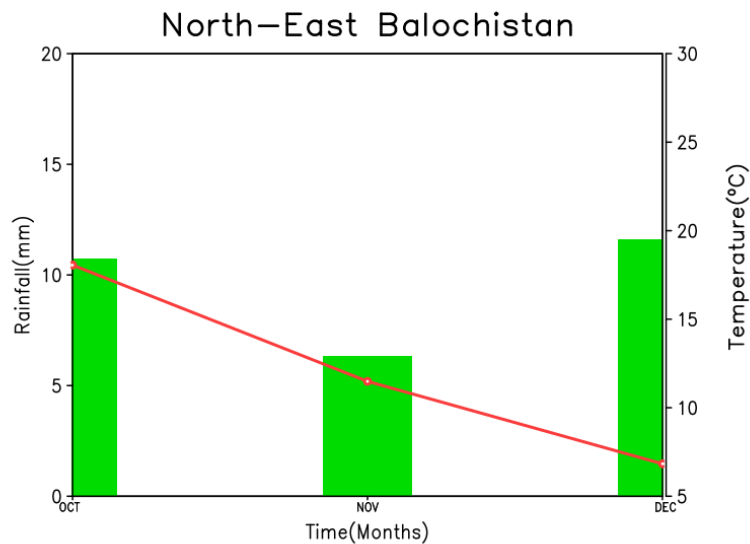
Similarly, **Lower Sindh** is expected to receive lesser rainfalls during the next three months. The mean temperature may decrease following the seasonal pattern.



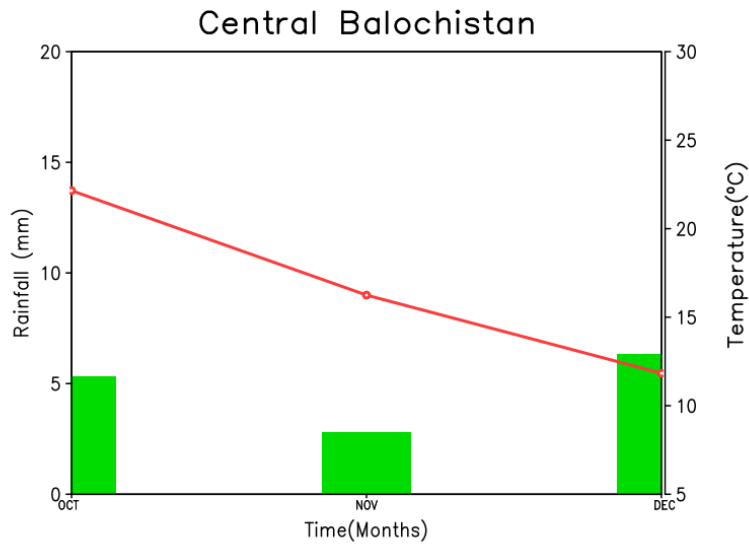
Upper Khyber Pakhtunkhwa is expected to receive fewer amount of precipitation throughout the period. The mean temperature is expected to decrease as per seasonal pattern.



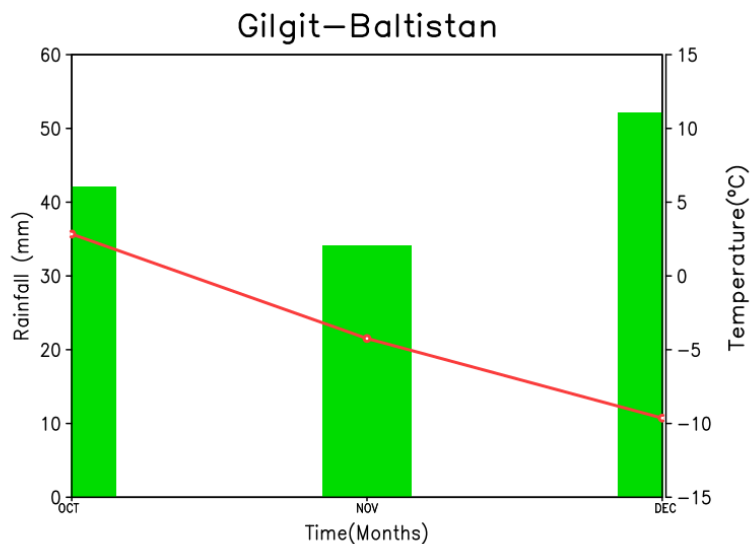
Lower Khyber Pakhtunkhwa is expected to receive lesser precipitation. The mean temperature may decrease gradually following the seasonal pattern.



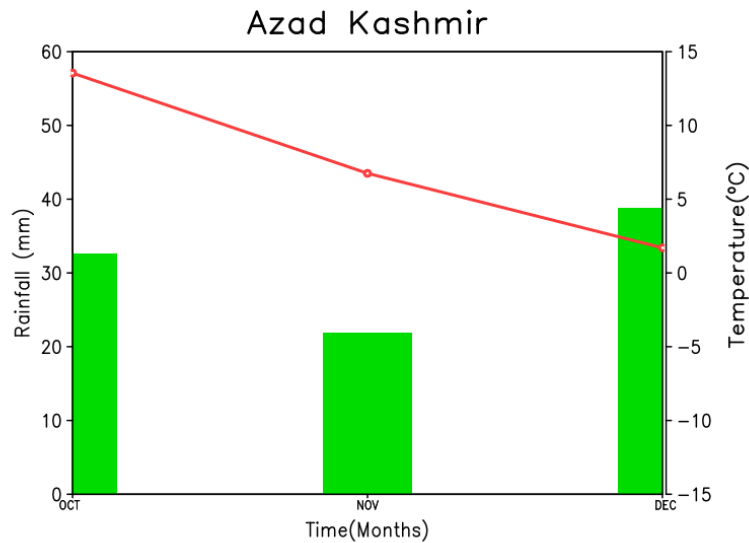
North-Eastern Baluchistan may receive fewer precipitation throughout the period. The mean temperature is expected to decrease gradually following the seasonal pattern.



Central Baluchistan is expected to receive lesser rainfalls during the next three months. The mean temperature may decrease gradually following the seasonal pattern.



Gilgit Baltistan is expected to receive fewer precipitation during the mentioned period. The mean temperature may decrease gradually following the seasonal pattern.



Kashmir is expected to receive lesser rainfalls during the next three months. The mean temperature is expected to decrease following the seasonal pattern.

Advisories to Farmers

In the recent monsoon season, plenty of rains occurred in most of the agriculture plains of the country. Accordingly, the agricultural soils hold favorable reserves in terms of the moisture contents. However, fewer rainfalls (snowfall over the high mountains) are expected in the next three months which gradually decrease the moisture conditions in the major agricultural plains of the country.

At present, the conditions are favorable for the upcoming Rabi crops like Wheat etc throughout the country except the particular areas of Sindh with stagnant water. The soils have enough moisture to proceed for in time sowing and healthy growth at initial stages of Rabi crops. However, precautionary measures for timely sowing are recommended to preserve the moisture contents in the fields including deep ploughing and application of ‘Suhaaga’. Also, suitable steps may be taken to avoid weeds that may appear due to availability of moisture in the atmosphere.