

Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall Distribution (mm) during the Previous
Week (21st November – 27th November, 2022)**



Highlights of Past Weather (21st November – 27th November, 2022)

Normal to above normal temperature was recorded in most parts of the country except few areas of Baluchistan, KPK and GB with below normal temperature.

Province wise distribution of rainfall reported as follows during the last week:

1. Dry weather reported from the Punjab.
2. Dry weather reported from the KPK.
3. Dry weather reported from Sindh.
4. Dry weather reported from the Baluchistan.
5. Dry weather reported from GB and Kashmir.

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Past Weather of Provinces (21st November – 27th November, 2022)**Punjab**

Dry weather reported from the province of Punjab. Weekly maximum and minimum temperatures recorded as 26.2°C & 9.4°C respectively. For the recent week on average 89.6 growing degree days were accumulated. Average relative humidity recorded as 52% and wind speed in the morning/evening recorded as 1.0/0.8 Knots. During the previous week the lowest minimum temperature was recorded as 4.7°C at Islamabad.

Baluchistan

Dry weather reported from Baluchistan. Weekly maximum and minimum temperatures recorded as 26.3°C & 8.7°C respectively. For the recent week on average 87.4 growing degree days were accumulated. Average relative humidity recorded as 42% and wind speed in the morning/evening recorded as 1.3/3.6 Knots. During the previous week the lowest minimum temperature was recorded as -5.0°C at Kalat.

Khyber Pakhtunkhwa

Dry weather reported from Khyber Pakhtunkhwa. Weekly maximum and minimum temperatures recorded as 21.8°C & 05.2°C respectively. For the recent week on average 59.6 growing degree days were accumulated. Average relative humidity recorded as 62% and wind speed in the morning/evening recorded as 1.1/1.0 Knots. During the previous week the lowest minimum temperature was recorded as -4.5°C at Kalam.

Sindh

Dry weather reported from Sindh province. Weekly maximum and minimum temperatures recorded as 30.2°C & 14.3°C respectively. For the recent week, on average 120.9 growing degree days were accumulated. Average relative humidity recorded as 67% and wind speed in the morning/evening recorded as 1.0/1.8 Knots.

Lowest minimum temperature was recorded as 8.5°C at Mithi.

Gilgit-Baltistan and Azad Jammu & Kashmir

Dry weather reported from GB and Kashmir. Weekly maximum and minimum temperatures recorded as 17.1°C & 1.0°C respectively. For the recent week on average 32.2 growing degree days were accumulated. Average relative humidity recorded as 66% and wind speed in the morning/evening recorded as 0.1/0.2 Knots. During the previous week the lowest minimum temperature was recorded as -8.0°C at Skardu.

Past Weather for Major Agricultural Plains **(21st November – 27th November, 2022)**

Rawalpindi (Potohar region)

Dry weather reported from Rawalpindi during the week; however, cloudiness in the morning/evening recorded as 0.7/0.0 Oktas while, average relative humidity observed as 70%. Mean night time temperature recorded 4.8°C & for the recent week 71.9 growing degree days were accumulated. Wind speed recorded in the morning/evening as 0.0/0.0 Knots.

Faisalabad (Central Punjab)

Dry weather reported from Faisalabad during the week; however, cloudiness in the morning/evening recorded as 0.2/0.2 Oktas while, average relative humidity observed as 64%. Mean night time temperature recorded as 8.6°C & for the recent week 91.7 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.2/0.2 Knots.

Tandojam (Lower Sindh)

Dry weather reported from Tandojam during the week; however, cloudiness in the morning/evening recorded as 0.0/0.0 Oktas, average relative humidity observed as 81%. Mean night time temperature recorded as 12.1°C & for the recent week 113.5 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.2/0.9 Knots.

Quetta (Northern Baluchistan)

Dry weather reported from Quetta during the week; however, cloudiness in the morning/evening recorded as 2.8/5.7 Oktas while, average relative humidity observed as 29%. Mean night time temperature recorded as 0.1°C & for the recent week 26.6 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.1/0.0 Knots.

Past Weather for Sub-Regional Agricultural Plains **(21st November – 27th November, 2022)**

Multan

Dry weather reported from Multan during the week; however, cloudiness in the morning/evening recorded as 1.0/1.3 Oktas. Average relative humidity observed as 62%. Mean night time temperature recorded as 10.3°C & for the recent week 97.6 growing degree days accumulated.

Wind speed recorded in the morning/evening as 0.0/0.6 Knots

Lahore

Dry weather reported from Lahore during the week; however, cloudiness in the morning/evening recorded as 0.3/0.0 Oktas, average relative humidity observed as 62%. Mean night time temperature recorded as 11.0°C & for the recent week 94.5 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/0.0 Knots.

Zhob

Dry weather reported from Zhob during the week; however, cloudiness in the morning/evening recorded as 0.0/0.0 Oktas while, average relative humidity observed as 34%. Mean night time temperature recorded as 3.7°C & for the recent week 58.0 growing degree days accumulated. Wind speed recorded in the morning/evening as 3.4/4.0 Knots.

Murree

Dry weather reported from Murree during the week; however, cloudiness in the morning/evening recorded as 0.0/0.3 Oktas while, average relative humidity observed as 30%. Mean night time temperature recorded as 8.1°C & for the recent week 59.1 growing degree days accumulated. Wind speed recorded in the morning/evening as 3.1/1.7 Knots.

D.I. Khan

Dry weather reported from DI Khan during the week; however, cloudiness in the morning/evening recorded as 0.0/0.0 Oktas, average relative humidity observed as 62%. Mean night time temperature recorded as 10.6°C & for the recent week 103.0 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.6/0.6.

Peshawar

Dry weather reported during the week; however, cloudiness in the morning/evening recorded as 0.0/0.4 Oktas while, average relative humidity observed as 69%. Mean night time temperature recorded as 5.1°C & for the recent week 73.0 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/0.6 Knots.

Kalam

Dry weather reported from Kalam during the week; however, cloudiness in the morning/evening recorded as 0.6/0.4 Oktas while, average relative humidity observed as 61%. Mean night time temperature recorded as -2.6°C & for the recent week 16.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/0.0 Knots.

Gilgit

Dry weather reported from Gilgit during the week, cloudiness in the morning/evening recorded as 2.6/1.0 Oktas while, average relative humidity observed as 65%. Mean night time temperature recorded as -1.1°C & for the recent week 22.0 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/0.0 Knots.

Skardu

Dry weather reported from Skardu during the week; however, cloudiness in the morning/evening recorded as 1.7/0.4 Oktas while, average relative humidity observed as 61%. Mean night time temperature recorded as -6.0°C & for the recent week 0.0 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/0.0 Knots.

**Crop Situation for Major Agricultural Plains
(Based on data from Regional Agromet Centers)****Potohar Region (Rawalpindi)**

There is presently no crop grown in the fields of RAMC Rawalpindi.

Central Punjab (Faisalabad)

Wheat crop. Irrigated, sowing on 10-11-2022. Emergence stage completed, very good.

Lower Sindh (Tandojam)

Wheat (TJ 83) Sowing on 09-11-2022. Irrigated, , Germination stage, Good.

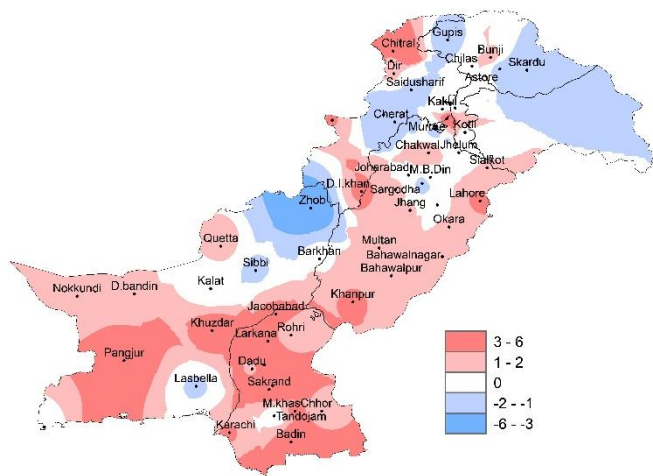
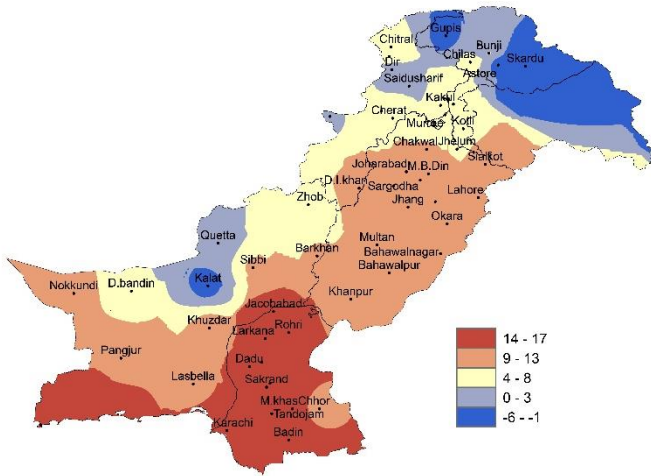
Northern Baluchistan (Quetta)

No Crop grown presently. Wheat crop harvested on 24-05-2022 at RAMC Quetta. At present no crop grown in the fields.

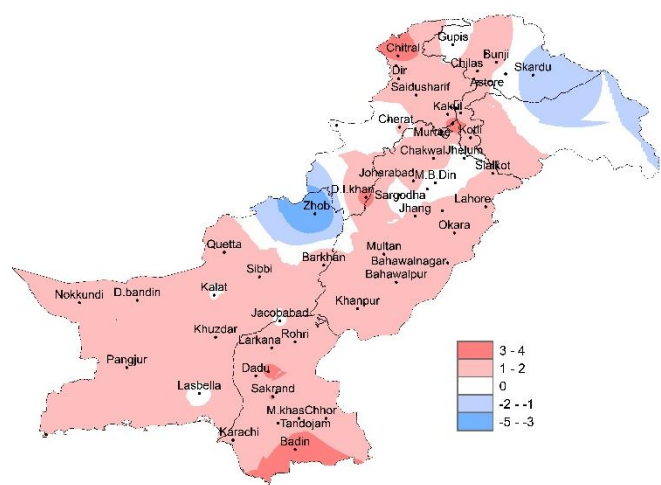
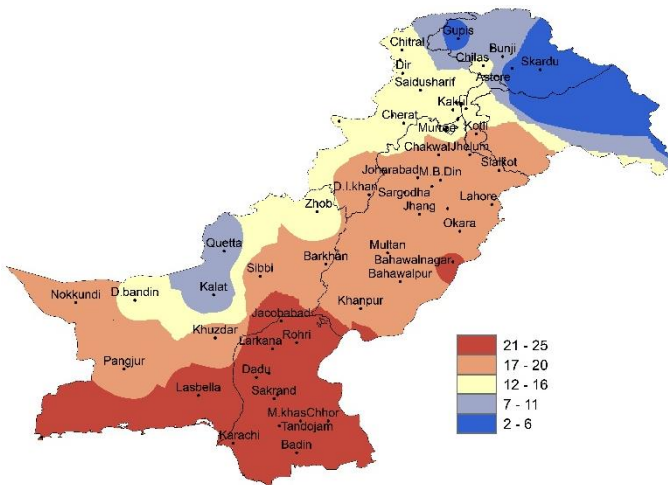
Eastern Baluchistan (Usta Muhammad)

There is presently no crop grown in the fields of RAMC Usta Muhammad.

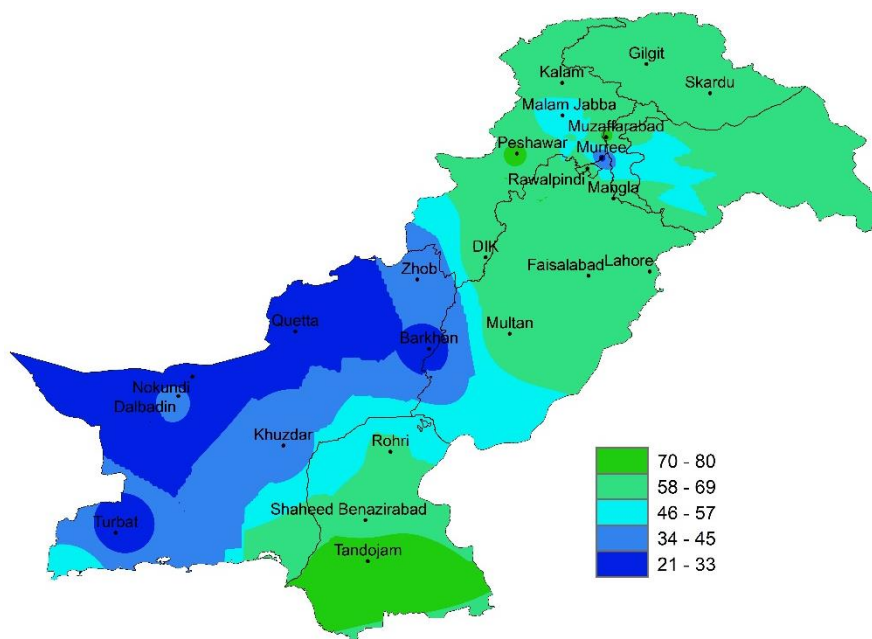
Actual & Departure of Minimum temperature (°C) for the Previous week (21st November – 27th November, 2022)



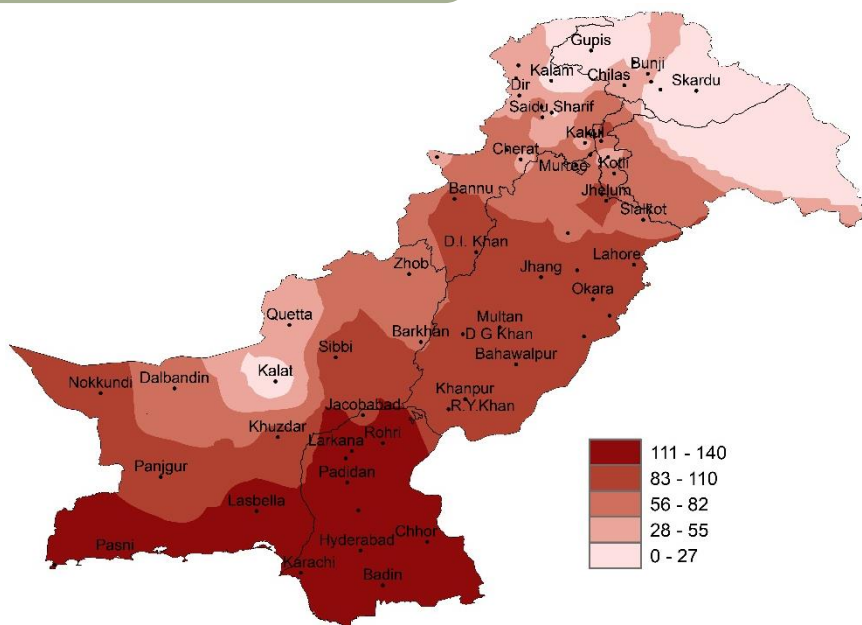
Actual & Departure of Mean temperature (°C) for the Previous week (21st November – 27th November, 2022)



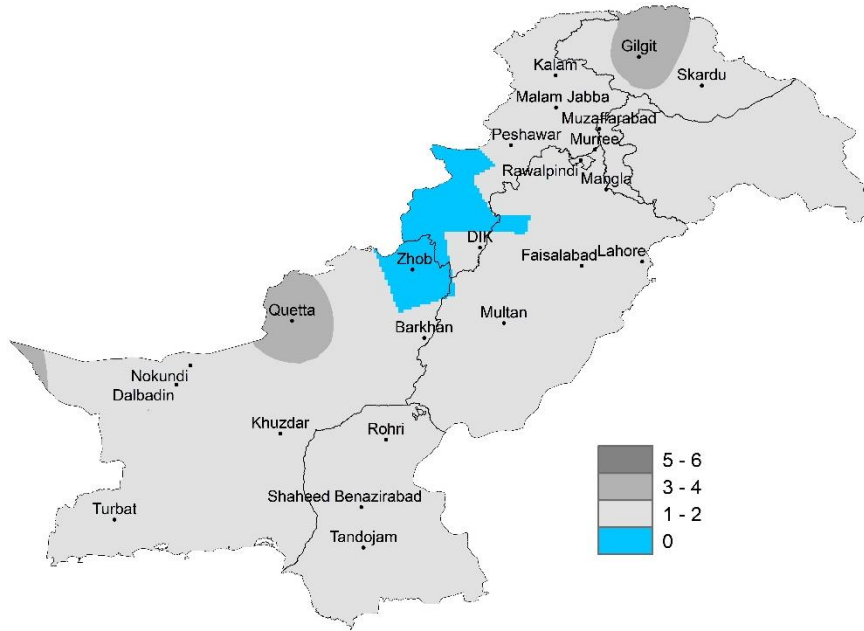
Mean Relative Humidity (%) during the
Previous week (21st November – 27th November, 2022)



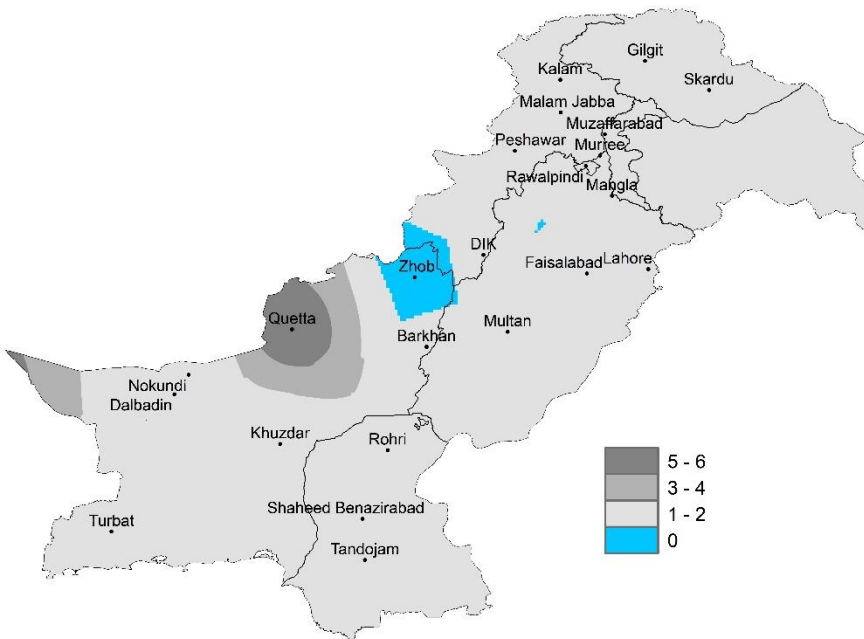
Total Growing Degree Days accumulated during the
Previous week (21st November – 27th November, 2022)



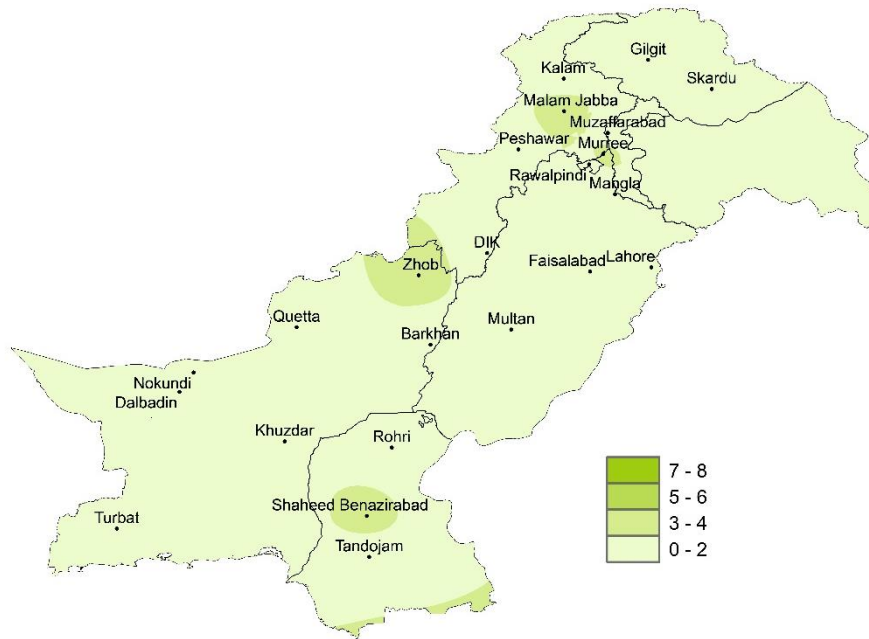
Mean Cloudiness (Oktas) at 0800PST during the
Previous week (21st November – 27th November, 2022)



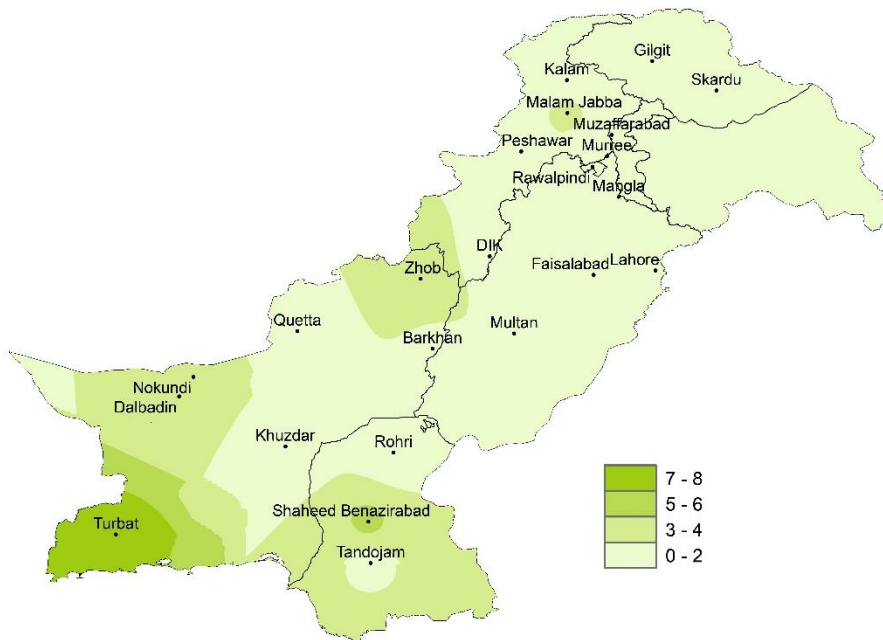
Mean Cloudiness (Oktas) at 1700PST during the
Previous week (21st November – 27th November, 2022)



Mean Wind Speed (Knots) at 0800PST during the Previous week (21st November – 27th November, 2022)



Mean Wind Speed (Knots) at 1700PST during the Previous week (21st November – 27th November, 2022)



Weekly Weather Advisory for Farmers**(28th November – 04th December, 2022)**

Continental air is prevailing over most parts of the country.

MONDAY**28-11-2022**

Mainly cold and dry weather is expected in most parts of the country.

TUESDAY**29-11-2022**

Mainly cold and dry weather is expected in most parts of the country. However, foggy conditions are likely to develop over few plain districts of Punjab during morning hours.

WEDNESDAY**30-11-2022**

Mainly cold and dry weather is expected in most parts of the country, while partly cloudy weather is likely in upper Khyber Pakhtunkhwa and Gilgit Baltistan. Foggy conditions are expected in plain areas of Punjab and Sindh.

THURSDAY**01-12-2022**

Mainly cold and dry weather is expected in most parts of the country, while partly cloudy weather is likely in upper Khyber Pakhtunkhwa, Gilgit Baltistan and Kashmir. Foggy conditions are expected in plain areas of Punjab and Sindh.

FRIDAY**02-12-2022**

Mainly cold and dry weather is expected in most parts of the country, while partly cloudy weather with light rain/snow is likely in upper Khyber Pakhtunkhwa, Gilgit Baltistan and Kashmir. Foggy conditions are expected in plain areas of Punjab and Sindh.

SATURDAY**03-12-2022**

Mainly cold and dry weather is expected in most parts of the country, while partly cloudy weather with light rain/snow is likely in upper Khyber Pakhtunkhwa, Gilgit Baltistan and Kashmir. Foggy conditions are expected in plain areas of Punjab and Sindh.

SUNDAY**04-12-2022**

Mainly cold and dry weather is expected in most parts of the country, while partly cloudy weather is likely in upper Khyber Pakhtunkhwa, Gilgit Baltistan and Kashmir. Foggy conditions are expected in plain areas of Punjab and Sindh.

ADVISORY FOR FARMERS

1. The farmers may continue the routine activities according to the weather forecast.

National Weather Data of Selected Cities from (21st November – 27th November, 2022)

Stations	Minimum/Day Time Temperature (°C)		Growing Degree Days	Relative Humidity (%)	Rainfall (mm)	Cloudiness (Oktas) 0800 PST	Cloudiness (Oktas) 1700 PST	Wind Speed (Knots) 0800 PST	Wind Speed (Knots) 1700 PST
	Mean	Lowest							
D.I. Khan	10.64	9.50	103.00	62.29	0.00	0.00	0.00	0.57	0.57
Faisalabad	8.60	8.00	91.70	69.00	0.00	0.00	0.00	0.20	0.90
Gawadar	15.07	12.50	131.75	51.79	0.00	0.00	0.29	0.86	6.86
Gilgit	-1.11	-2.20	21.95	65.36	0.00	2.57	1.00	0.00	0.00
Kalam	-2.57	-4.50	16.25	61.43	0.00	0.57	0.43	0.00	0.00
Khuzdar	10.29	9.00	87.50	40.93	0.00	0.14	0.00	0.00	0.00
Lahore	10.97	10.00	94.50	62.00	0.00	0.33	0.00	0.00	0.00
Malam Jabba	2.29	-1.00	16.50	49.43	0.00	0.00	0.43	3.71	2.29
Mangla	7.79	6.90	84.40	65.79	0.00	0.29	0.43	0.57	0.86
Multan (PBO)	10.30	9.30	97.55	62.29	0.00	1.00	1.29	0.00	0.57
Murree	8.11	6.40	59.05	30.43	0.00	0.00	0.29	3.14	1.71
Muzaffarabad	5.20	4.80	59.60	71.14	0.00	0.43	0.00	0.00	0.00
Nawabshah	14.43	13.50	117.85	61.79	0.00	0.29	1.14	2.86	4.57
Peshawar	5.07	4.50	72.95	69.29	0.00	0.00	0.43	0.00	0.57
Quetta	0.10	-1.50	26.60	29.00	0.00	2.80	5.70	0.10	0.00
Rawalpindi	4.80	3.80	71.90	69.70	0.00	0.70	0.00	0.00	0.00
Rohri	13.47	12.30	114.65	57.50	0.00	0.43	1.14	0.00	0.00
Skardu	-6.04	-8.00	0.00	61.43	0.00	1.71	0.43	0.00	0.00
Tandojam	12.10	9.00	113.50	80.50	0.00	0.00	0.00	0.10	0.20
Usta. M	***	***	***	***	***	***	***	***	***
Zhob	3.71	2.00	58.00	33.71	0.00	0.00	0.00	3.00	4.00

*** Shows that data was not available.

Findings of AgMIP Pakistan, University of Agriculture, Faisalabad

1. There would be significant increase in temperature i.e., 2.8°C in day and 2.2°C in the night during mid-century (2040-2069).
2. There would be significant variability in rainfall patterns (about 25% increase in summer & 12% decrease in winter during 2040-2069).
3. Climate Change will affect the crop yields negatively (about 17% for rice and 14 % for wheat).
4. If there will be no adaptation to Climate Change, majority of farmers would be the economic losers.
5. With Adaptation to Climate Change (through technology and management), there would be significant decrease in poverty and improvement in the livelihood of farming community.

(Agricultural Model Inter-comparison and Improvement Project (AgMIP) Pakistan 2012-2014)

- 1- سال 2040-69 کے دوران درجہ حرارت میں قابل ذکر اضافہ ہو سکتا ہے۔ جو کہ دن کے وقت 2.8°C اور رات کو 2.2°C تک ہوگا۔
- 2- گرمیوں کی بارش میں 25 فیصد اضافہ اور سردیوں کی بارش میں 12 فیصد تک کمی کا امکان ہے۔
- 3- مندرجہ بالا موسمی تغیرات کی وجہ سے دھان کی پیداوار میں 17 فیصد اور گندم کی پیداوار میں 14 فیصد تک کمی ہو سکتی ہے۔
- 4- اگر موسمی تغیرات کا مناسب بندوبست نہ کیا گیا۔ تو کسانوں کی اکثریت کو معاشی نقصان کا سامنا کرنا پڑے گا۔
- 5- موسمی تغیرات کے سدباب (بذریعہ نئی ٹیکنالوجی کا استعمال اور بہتر نظم و نسق) سے غربت میں کمی اور کسانوں کی زندگی میں خوشحالی لائی جاسکتی ہے۔

(ایگمپ پاکستان 2014-2012)