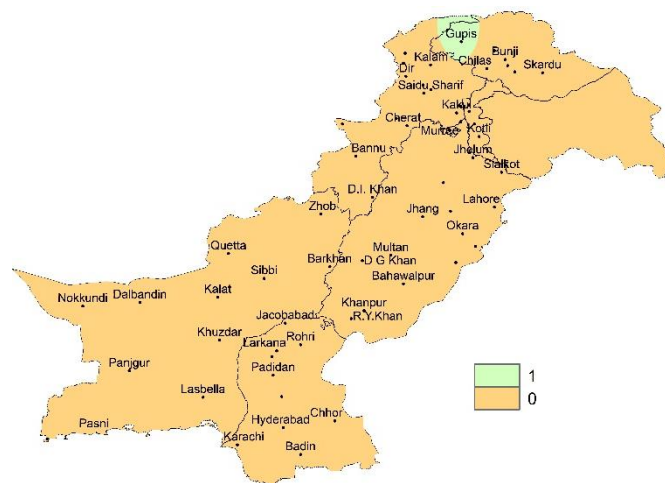


# Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall Distribution (mm) during the Previous  
Week (24<sup>th</sup> October – 30<sup>th</sup> October, 2022)**

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## Highlights of Past Weather (24<sup>th</sup> October – 30<sup>th</sup> October, 2022)

Above normal temperature was recorded in most parts of the country.

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

1. Dry weather observed in the Punjab.
2. Dry weather reported from Khyber Pakhtunkhwa.
3. Dry weather reported from Sindh and Balochistan
4. Dry weather reported from GB and Kashmir.

**Patron-in-Chief: Mahr Sahibzad Khan (Director General)**

**Editor-in-Chief: Asma Jawad Hashmi (Deputy Director)**

**Editor: Shafiq Ur Rehman (Meteorologist)**

**Past Weather of Provinces (24<sup>th</sup> October – 30<sup>th</sup> October, 2022)****Punjab**

Dry weather reported from the province. Weekly maximum and minimum temperatures recorded as 32.0°C & 15.9°C respectively. For the recent week on average 132.6 growing degree days were accumulated. Average relative humidity recorded as 52% and wind speed in the morning/evening recorded as 0.7/0.6 Knots. During the previous week the while the lowest minimum temperature was recorded as 10.0°C at Islamabad.

**Baluchistan**

Dry Weather reported for the province. Weekly maximum and minimum temperatures recorded as 31.0°C & 14.8°C respectively. For the recent week on average 125.4 growing degree days were accumulated. Average relative humidity recorded as 46% and wind speed in the morning/evening recorded as 1.0/5.4 Knots. During the previous week the lowest minimum temperature was recorded as 2.5°C at Kalt.

**Khyber Pakhtunkhwa**

Dry weather reported from Khyber Pakhtunkhwa. Weekly maximum and minimum temperatures recorded as 26.9°C & 10.1°C respectively. For the recent week on average 94.3 growing degree days were accumulated. Average relative humidity recorded as 64% and wind speed in the morning/evening recorded as 0.9/0.2 Knots. During the previous week the lowest minimum temperature was recorded as 01.0°C at Kalam.

**Sindh**

Dry weather reported from the province. Weekly maximum and minimum temperatures recorded as 35.0°C & 20.9°C respectively. For the recent week, on average 160.6 growing degree days were accumulated. Average relative humidity recorded as 61% and wind speed in the morning/evening recorded as 1.9/3.3 Knots. Lowest minimum temperature was recorded as 17.5°C at Chor.

**Gilgit-Baltistan and Azad Jammu & Kashmir**

Dry weather reported from GB and Kashmir. Weekly maximum and minimum temperatures recorded as 23.7°C & 6.7°C respectively. For the recent week on average 71.9 growing degree days were accumulated. Average relative humidity recorded as 59% and wind speed in the morning/evening recorded as 0.0/0.7 Knots. During the previous week the lowest minimum temperature was recorded as -0.6°C at Skardu.

### **Past Weather for Major Agricultural Plains** **(24<sup>th</sup> October – 30<sup>th</sup> October, 2022)**

#### **Rawalpindi (Potohar region)**

Dry weather reported from Rawalpindi during the week; however, cloudiness in the morning/evening recorded as 0.0/0.7 Oktas while, average relative humidity observed as 60%. Mean day time temperature recorded 10.6°C & for the recent week 109.3 growing degree days were accumulated. Wind speed recorded in the morning/evening as 0.0/0.5 Knots.

#### **Faisalabad (Central Punjab)**

Dry weather reported from Faisalabad during the week; however, cloudiness in the morning/evening recorded as 0.0/0.0 Oktas while, average relative humidity observed as 61%. Mean day time temperature recorded as 16.4°C & for the recent week 140.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.2/0.1 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 62%. Mean day time temperature recorded as 18.6°C & for the recent week 157.0 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.1/2.0 Knots.

#### **Quetta (Northern Baluchistan)**

Dry weather reported from Quetta during the week; however, cloudiness in the morning/evening recorded as 3.2/7.1 Oktas while, average relative humidity observed as 24%. Mean day time temperature recorded as 6.1°C & for the recent week 72.0 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/0.0 Knots.

### **Past Weather for Sub-Regional Agricultural Plains** **(24<sup>th</sup> October – 30<sup>th</sup> October, 2022)**

#### **Multan**

Dry weather reported from Multan during the week; however, cloudiness in the morning/evening recorded as 0.0/0.3 Oktas. Average relative humidity observed as 54%. Mean day time temperature recorded as 17.4°C & for the recent week 142.1 growing degree days accumulated.

Wind speed recorded in the morning/evening as 0.0/1.7 Knots

#### **Lahore**

Dry weather reported from Lahore during the week; however, cloudiness in the morning/evening recorded as 0.0/0.0 Oktas, average relative humidity observed as 60%. Mean day time temperature recorded as 17.2°C & for the recent week 135.6 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 24%. Mean day time temperature recorded as 11.6°C & for the recent week 97.8 growing degree days accumulated. Wind speed recorded in the morning/evening as 3.0/3.0 Knots.

#### **Murree**

Dry weather reported from Murree during the week; however, cloudiness in the morning/evening recorded as 0.0/0.6 Oktas while, average relative humidity observed as 43%. Mean day time temperature recorded as 11.4°C & for the recent week 78.9 growing degree days accumulated. Wind speed recorded in the morning/evening as 2.0/0.0 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 67%. Mean day time temperature recorded as 17.4°C & for the recent week 142.8 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.3/0.3.

#### **Peshawar**

Dry weather reported during the week; however, cloudiness in the morning/evening recorded as 0.0/1.3 Oktas while, average relative humidity observed as 72%. Mean day time temperature recorded as 12.9°C & for the recent week 116.9 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/0.0 Knots.

**Kalam**

Dry weather reported from Kalam during the week; however, cloudiness in the morning/evening recorded as 0.0/2.4 Oktas while, average relative humidity observed as 48%. Mean day time temperature recorded as 1.1°C & for the recent week 40.6 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/0.9 Knots.

**Gilgit**

Dry weather reported from Gilgit during the week, cloudiness in the morning/evening recorded as 1.0/3.3 Oktas while, average relative humidity observed as 64%. Mean day time temperature recorded as 4.4°C & for the recent week 69.5 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 0.1/0.7 Oktas while, average relative humidity observed as 48%. Mean day time temperature recorded as 0.0°C & for the recent week 27.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/0.9 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)**

Presently Cotton Crop is grown in the fields of RAMC Faisalabad.

**Cotton**; Irrigated, Very Good, Second Picking (19-10-2022).

**Lower Sindh (Tandojam)**

Preparation of land for new crop

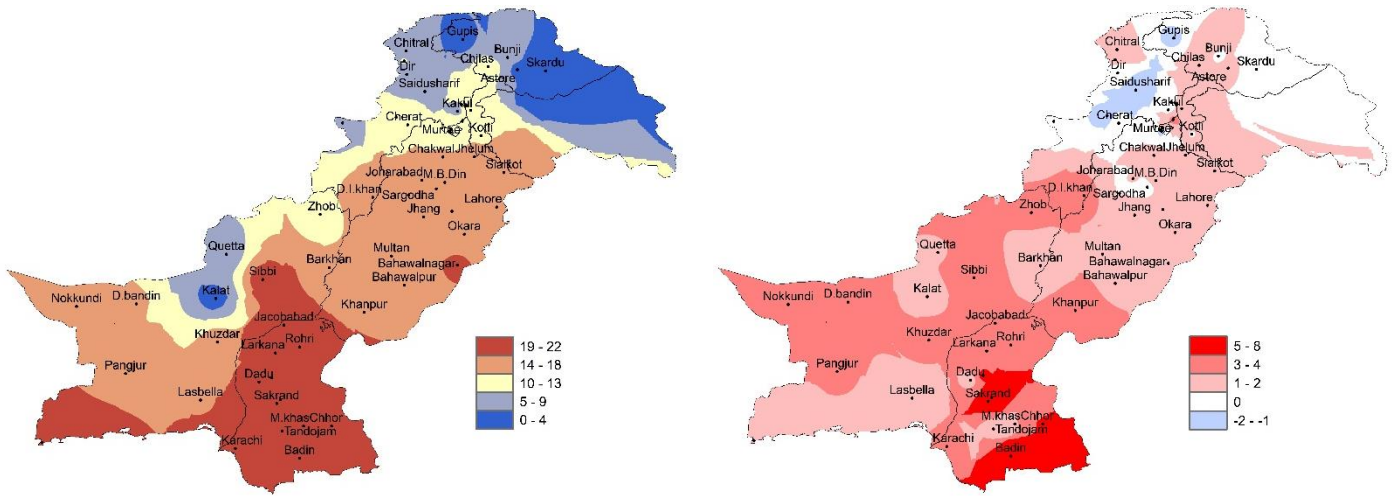
**Northern Baluchistan (Quetta)**

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

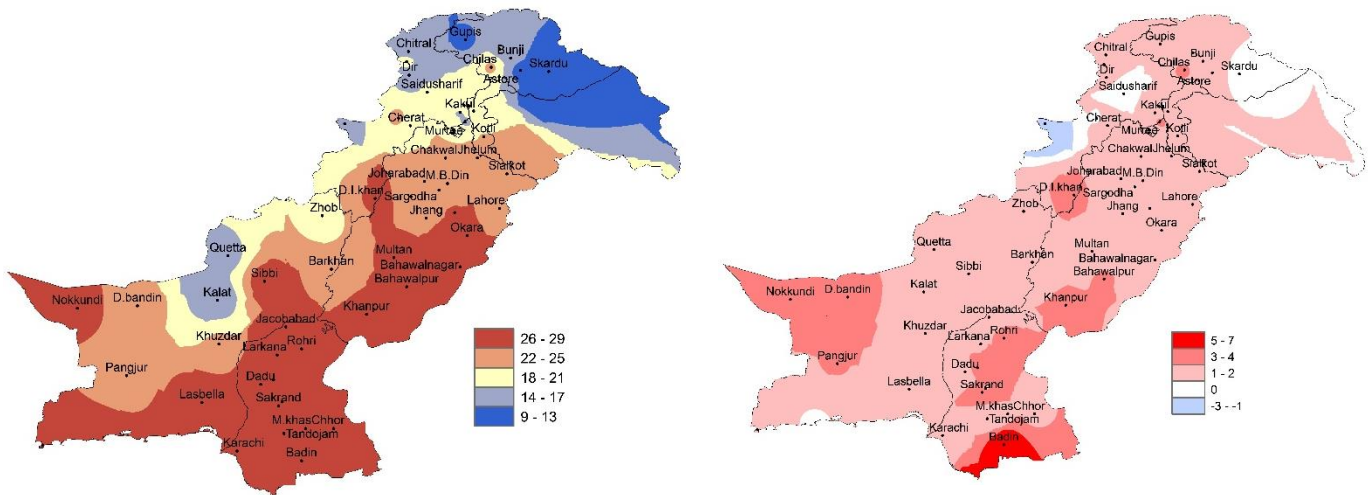
**Eastern Baluchistan (Usta Muhammad)**

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

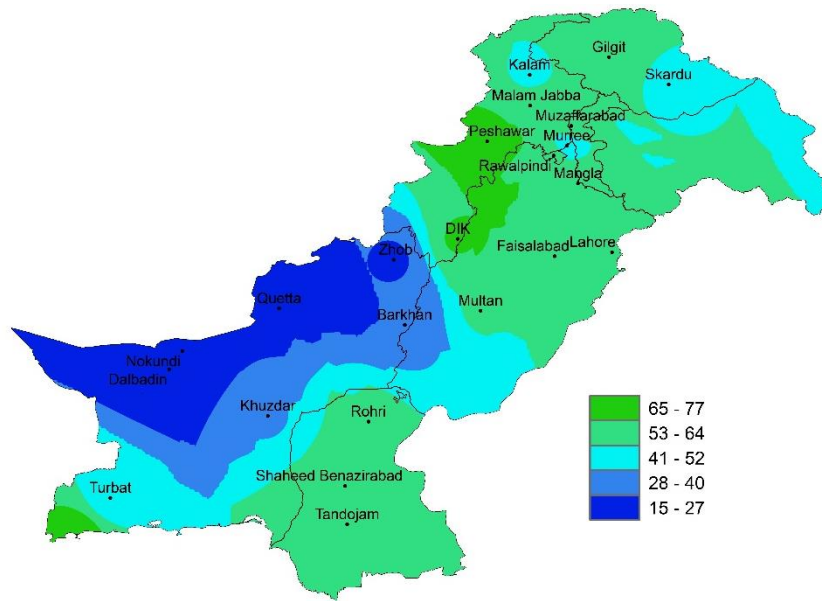
**Actual & Departure of Minimum temperature (°C) for the Previous week (24<sup>th</sup> October – 30<sup>th</sup> October, 2022)**



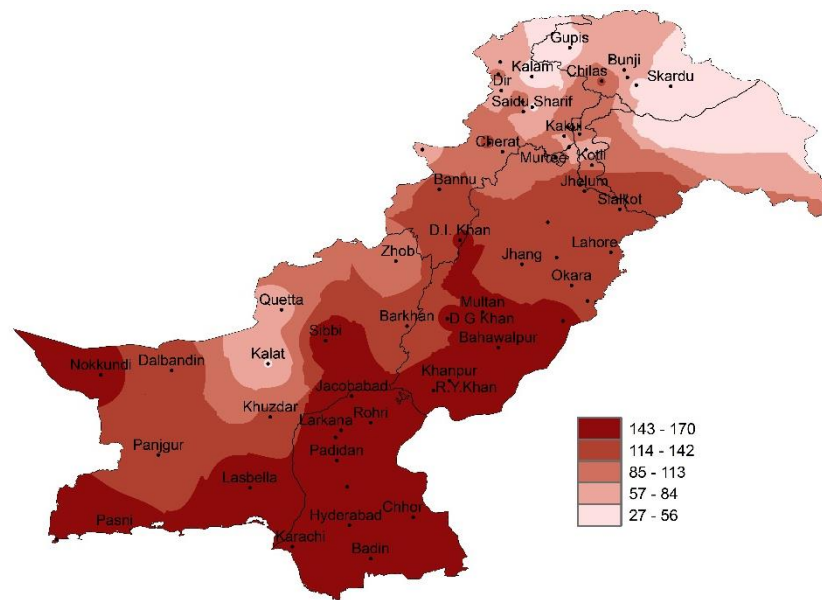
**Actual & Departure of Mean temperature (°C) for the Previous week (24<sup>th</sup> October – 30<sup>th</sup> October, 2022)**



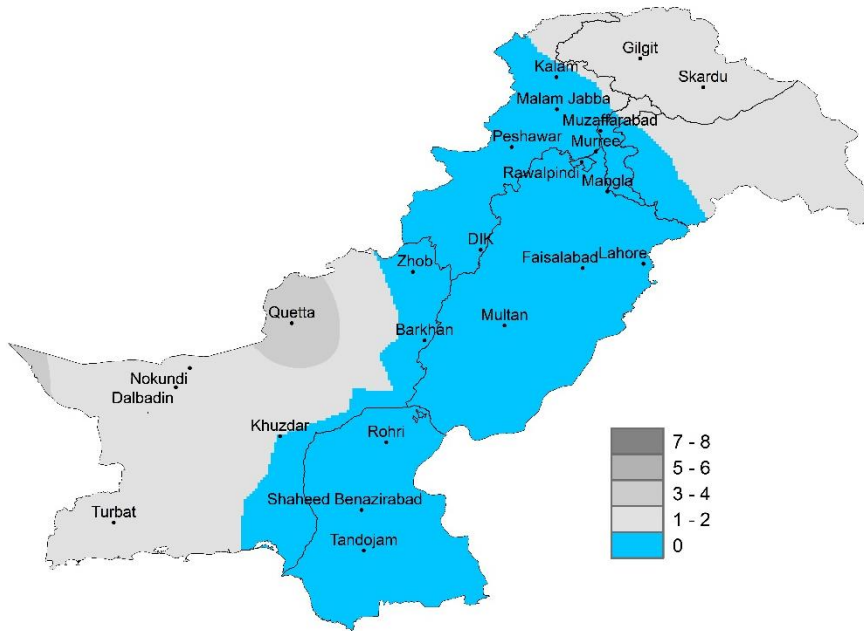
**Mean Relative Humidity (%) during the  
Previous week (24<sup>th</sup> October – 30<sup>th</sup> October, 2022)**



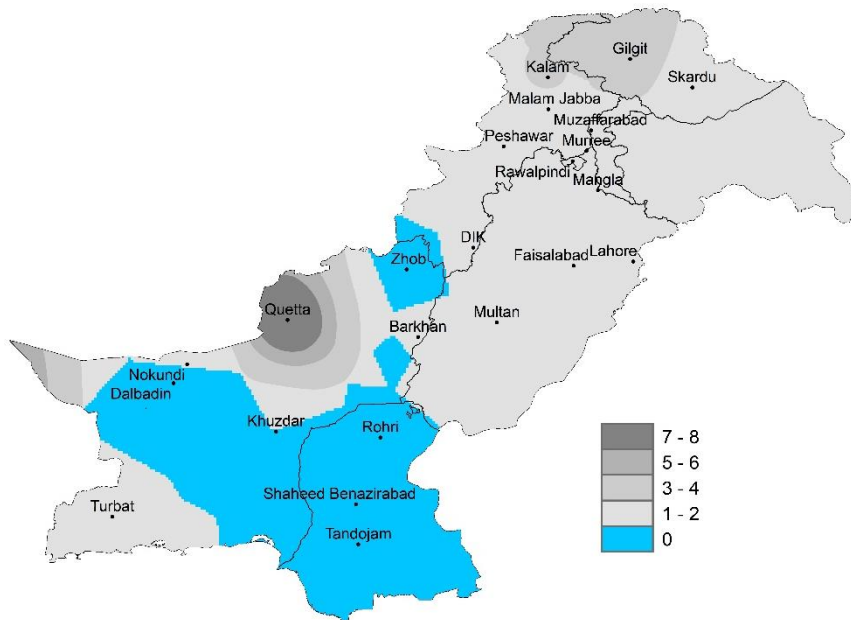
**Total Growing Degree Days accumulated during the  
Previous week (24<sup>th</sup> October – 30<sup>th</sup> October, 2022)**



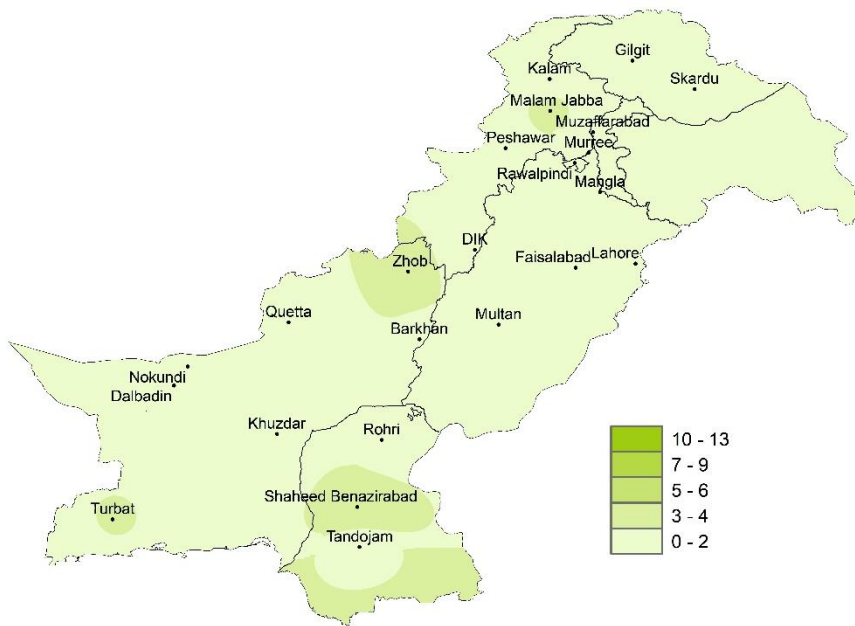
Mean Cloudiness (Oktas) at 0800PST during the  
Previous week (24<sup>th</sup> October – 30<sup>th</sup> October, 2022)



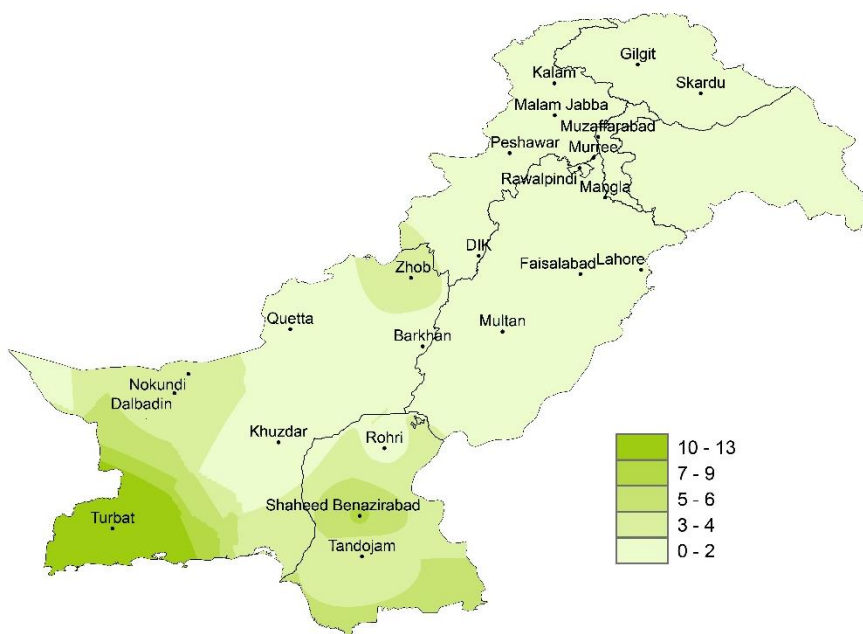
Mean Cloudiness (Oktas) at 1700PST during the  
Previous week (24<sup>th</sup> October – 30<sup>th</sup> October, 2022)



Mean Wind Speed (Knots) at 0800PST during the Previous week (24<sup>th</sup> October – 30<sup>th</sup> October, 2022)



Mean Wind Speed (Knots) at 1700PST during the Previous week (24<sup>th</sup> October – 30<sup>th</sup> October, 2022)





**Weekly Weather Advisory for Farmers****(31<sup>th</sup> October– 06<sup>th</sup> November, 2022)**

Continental air is prevailing over most parts of the country. A westerly wave is likely to affect upper parts of the country from Monday.

**MONDAY****31-10-2022**

Mainly dry weather is expected in most plain areas of the country. However, light rain-wind/thunderstorm (light snowfall over mountains) is expected at isolated places in Gilgit Baltistan, upper Khyber Pakhtunkhwa and Kashmir.

**TUESDAY****01-11-2022**

Mainly dry weather is expected in most plain areas of the country. However, light rain-wind/thunderstorm (light snowfall over mountains) is expected at isolated places in Gilgit Baltistan, upper Khyber Pakhtunkhwa and Kashmir.

**WEDNESDAY****02-11-2022**

Mainly dry weather is expected in most parts of the country, while cold in northern areas. However, rain-wind/thunderstorm is likely in Gilgit Baltistan and upper Khyber Pakhtunkhwa. Snowfall is also likely to occur over the mountains.

**THURSDAY****03-11-2022**

Mainly dry weather is expected in most parts of the country, while cold in northern areas. However, rain-wind/thunderstorm is likely in Gilgit Baltistan and upper Khyber Pakhtunkhwa. Snowfall is also likely to occur over the mountains.

**FRIDAY****04-11-2022**

Rain-wind/thunderstorm is expected in Gilgit Baltistan, Khyber Pakhtunkhwa, Islamabad, Kashmir and Potohar region. Snowfall is also likely to occur over the mountains. Dry weather is expected elsewhere in the country.

**SATURDAY****05-11-2022**

Rain-wind/thunderstorm is expected in Gilgit Baltistan, Khyber Pakhtunkhwa, Islamabad, Kashmir and upper Punjab. Snowfall is also likely to occur over the mountains. Dry weather is expected elsewhere in the country.

**SUNDAY****06-11-2022**

Rain-wind/thunderstorm is expected in Gilgit Baltistan, Khyber Pakhtunkhwa, Islamabad, Kashmir and upper Punjab. Snowfall is also likely

to occur over the mountains. Dry weather is expected elsewhere in the country.

**ADVISORY FOR FARMERS**

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

**National Weather Data of Selected Cities from (24<sup>th</sup> October – 30<sup>th</sup> October, 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	Highest							
D.I. Khan	17.4	17.0	142.8	67	0.00	0.0	0.0	0.3	0.3
Faisalabad	16.4	15.5	140.3	61	0.00	0.0	0.0	0.2	0.1
Gawadar	19.0	18.5	150.0	77	0.00	0.0	0.6	0.0	13.1
Gilgit	4.4	3.0	69.5	64	0.00	1.0	3.3	0.0	0.0
Kalam	1.1	1.0	40.6	48	0.00	0.0	2.4	0.0	0.9
Khuzdar	15.3	15.0	115.5	37	0.00	0.0	0.0	0.0	0.0
Lahore	17.2	16.0	135.6	60	0.00	0.0	0.0	0.0	0.0
Malam Jabba	7.7	7.0	44.8	62	0.00	0.0	0.7	3.1	0.0
Mangla	13.6	12.8	123.7	63	0.00	0.0	0.6	0.0	2.0
Multan (PBO)	17.4	16.5	142.1	54	0.00	0.0	0.3	0.0	1.7
Murree	11.4	10.5	78.9	43	0.00	0.0	0.6	2.0	0.0
Muzaffarabad	11.3	10.8	101.0	60	0.00	0.0	0.7	0.0	0.0
Nawabshah	21.1	20.0	161.3	64.0	0.0	0.0	0.0	3.4	6.3
Peshawar	12.9	12.5	116.9	72	0.00	0.0	1.3	0.0	0.0
Quetta	6.1	4.4	72.0	24	0.00	3.2	7.1	0.0	0.0
Rawalpindi	10.6	9.5	109.3	60	0.00	0.0	0.7	0.0	0.5
Rohri	21.5	20.5	164.6	57	0.00	0.0	0.0	1.1	1.7
Skardu	0.0	-0.6	27.3	48	0.00	0.1	0.7	0.0	0.9
Tandojam	18.6	17.0	157.0	62	0.00	0.0	0.0	1.1	2.0
Usta. M	***	***	***	***	***	***	***	***	***
Zhob	11.6	11.0	97.8	24	0.00	0.0	0.0	3.0	3.0

\*\*\* 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)