

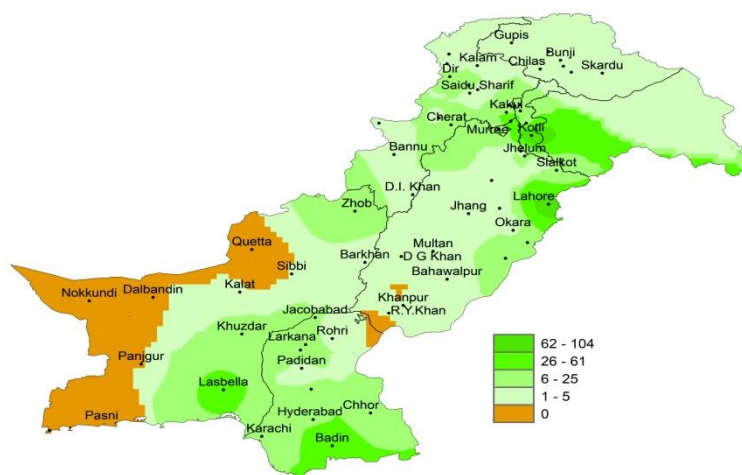
# Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall Distribution (mm) during the  
Previous Week (1<sup>st</sup> August – 7<sup>th</sup> August, 2022)**



## Highlights of Past Weather (1<sup>st</sup> August – 7<sup>th</sup> August, 2022)

Normal to below normal day time temperatures were observed in most parts of the country except South eastern Sindh and Pothar region during the last week.

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

1. Light to moderate rainfall reported from most parts of the Punjab while heavy rain reported from North east Punjab and Pothwar region.
2. Light to Moderate rainfall reported from most parts of Khyber Pakhtunkhwa.
3. Light to Moderate rainfall reported from most parts of Sindh and Baluchistan whereas dry weather reported from southwestern parts of Baluchistan.
4. Light rainfall reported from GB and moderate rainfall reported from Kashmir.

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

## Past Weather of Provinces (1<sup>st</sup> August – 7<sup>th</sup> August, 2022)

### Punjab

Light to moderate rainfall reported from most parts of the Punjab while heavy rain reported from North east Punjab and Pothwar region. Weekly maximum and minimum temperatures recorded as 34.9°C & 25.9°C respectively. For the recent week on average 177.8 growing degree days were accumulated. Average relative humidity recorded as 76% and wind speed in the morning/evening recorded as 0.8/1.5 Knots. During the previous week the highest precipitation was recorded as 105.0 mm at Kasur while the highest maximum temperature was recorded as 40.5°C at Noorpurthal.

### Baluchistan

Light to moderate rainfall reported from most parts of Baluchistan whereas dry weather reported from southwestern parts of Baluchistan. Weekly maximum and minimum temperatures recorded as 35.7°C & 24.3°C respectively. For the recent week on average 175.1 growing degree days were accumulated. Average relative humidity recorded as 50% and wind speed in the morning/evening recorded as 0.9/6.3 Knots. During the previous week the highest precipitation was recorded as 31.0 mm at Lasbella. During the previous week the highest maximum temperature was recorded as 43.0°C at Dalbandin.

### Khyber Pakhtunkhwa

Light to Moderate rainfall reported from most parts of Khyber Pakhtunkhwa. Weekly maximum and minimum temperatures recorded as 33.1°C & 20.7°C respectively. For the recent week on average 153.2 growing degree days were accumulated. Average relative humidity recorded as 70% and wind speed in the morning/evening recorded as 0.8/2.6 Knots. During the previous week the highest precipitation was recorded as 26.0 mm at Cherat while the maximum highest temperature was recorded as 40.0°C at Bannu.

### Sindh

Light to moderate rainfall reported from most parts of Sindh. Weekly maximum and minimum temperatures recorded as 36.6°C & 27.1°C respectively. For the recent week, on average 188.0 growing degree days were accumulated. Average relative humidity recorded as 64% and wind speed in the morning/evening recorded as 5.1/3.7 Knots. During the previous week the highest precipitation was recorded as 42.0 mm at Mirpurkhas while the highest maximum temperature was recorded as 29.5°C at Karachi Airport.

### Gilgit-Baltistan and Azad Jammu & Kashmir

Light rainfall reported from GB and moderate rainfall reported from Kashmir. Weekly maximum and minimum temperatures recorded as 31.4°C & 18.7°C respectively. For the recent week on average 140.2 growing degree days were accumulated. Average relative humidity recorded as 69% and wind speed in the morning/evening recorded as 0.0/2.2 Knots. During the previous week the highest precipitation was recorded as 110.0 mm at Kotli while the highest maximum temperature was recorded as 42.0°C at Garhi Dopatta.

### Past Weather for Major Agricultural Plains (1<sup>st</sup> August – 7<sup>th</sup> August, 2022)

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

Rainfall reported as 4.2 mm from Rawalpindi during the week; however, cloudiness in the morning/evening recorded as 4.7/5.3 Oktas while, average relative humidity observed as 68%. Mean day time temperature recorded 35.0°C & for the recent week 169.4 growing degree days were accumulated. Wind speed recorded in the morning/evening as 0.9/0.6 Knots.

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

Rainfall reported as trace from Faisalabad during the week; however, cloudiness in the morning/evening recorded as 2.6/4.4 Oktas while, average relative humidity observed as 73%. Mean day time temperature recorded as 35.4°C & for the recent week 181.8 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.1/1.6 Knots.

#### **Tandojam (Lower Sindh)**

Rainfall reported as 25.5 mm from Tandojam during the week; however, cloudiness in the morning/evening recorded as 3.3/3.4 Oktas, average relative humidity observed as 68%. Mean day time temperature recorded as 36.0°C & for the recent week 178.9 growing degree days accumulated. Wind speed recorded in the morning/evening as 2.5/4.2 Knots.

#### **Usta Muhammad (Eastern Baluchistan)**

Rainfall reported as 1.0 mm from Usta Muhammad during the week; however, cloudiness in the morning/evening recorded as 4.0/3.0 Oktas, average relative humidity observed as 69%. Mean day time temperature recorded as 38.3°C & for the recent week 193.0 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.4/1.7 Knots.

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

Dry weather reported from Quetta during the week; however, cloudiness in the morning/evening recorded as 1.8/2.8 Oktas while, average relative humidity observed as 34%. Mean day time temperature recorded as 33.4°C & for the recent week 153.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 2.3/3.1 Knots.

### Past Weather for Sub-Regional Agricultural Plains (1<sup>st</sup> August – 7<sup>th</sup> August, 2022)

#### **Multan**

Rainfall reported as trace from Multan during the week; however, cloudiness in the morning/evening recorded as 5.4/4.4 Oktas. Average relative humidity observed as 68%. Mean day time temperature recorded as 35.6°C & for the recent week 183.4 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.4/2.6 Knots

#### **Lahore**

Rainfall reported as 79.6 mm from Lahore during the week; however, cloudiness in the morning/evening recorded as 7.0/6.3 Oktas, average relative humidity observed as 79%. Mean day time temperature recorded as 33.6°C & for the recent week 175.8 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/1.7 Knots.

#### **Zhob**

Rainfall reported as 13.0 mm from Zhob during the week; however, cloudiness in the morning/evening recorded as 1.1/3.3 Oktas while, average relative humidity observed as 50%. Mean day time temperature recorded as 34.2°C & for the recent week 165.8 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.9/7.9 Knots.

#### **Murree**

Rainfall reported as 49.0 mm from Murree during the week; however, cloudiness in the morning/evening recorded as 5.0/6.6 Oktas while, average relative humidity observed as 82%. Mean day time temperature recorded as 22.3°C & for the recent week 97.9 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.9/0.3 Knots.

#### **D.I. Khan**

Rainfall reported as trace from DI Khan during the week; however, cloudiness in the morning/evening recorded as 3.7/3.1 Oktas, average relative humidity observed as 71%. Mean day time temperature recorded as 36.9°C & for the recent week 191.8 growing degree days accumulated. Wind speed recorded in the morning/evening as 2.0/2.0 Knots.

**Peshawar**

Rainfall reported as trace from Peshawar during the week; however, cloudiness in the morning/evening recorded as 4.7/3.5 Oktas while, average relative humidity observed as 68%. Mean day time temperature recorded as 35.6°C & for the recent week 180.5 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.6/3.0 Knots.

**Kalam**

Rainfall reported as 1.5 mm from Kalam during the week; however, cloudiness in the morning/evening recorded as 2.9/5.6 Oktas while, average relative humidity observed as 50%. Mean day time temperature recorded as 26.4°C & for the recent week 97.0 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/1.0 Knots.

**Gilgit**

Rainfall reported as 1.4 mm from Gilgit during the week, cloudiness in the morning/evening recorded as 4.7/6.0 Oktas while, average relative humidity observed as 58%. Mean day time temperature recorded as 33.1°C & for the recent week 142.8 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/4.0 Knots.

**Skardu**

Rainfall reported as 4.9 mm from Skardu during the week; however, cloudiness in the morning/evening recorded as 4.3/5.2 Oktas while, average relative humidity observed as 50%. Mean day time temperature recorded as 29.2°C & for the recent week 120.4 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/1.0 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)**

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

**Cotton;** Irrigated, Very Good, Flowering completed,

**Lower Sindh (Tandojam)**

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

**Cotton;** Variety Koonj, Good, Flowering.

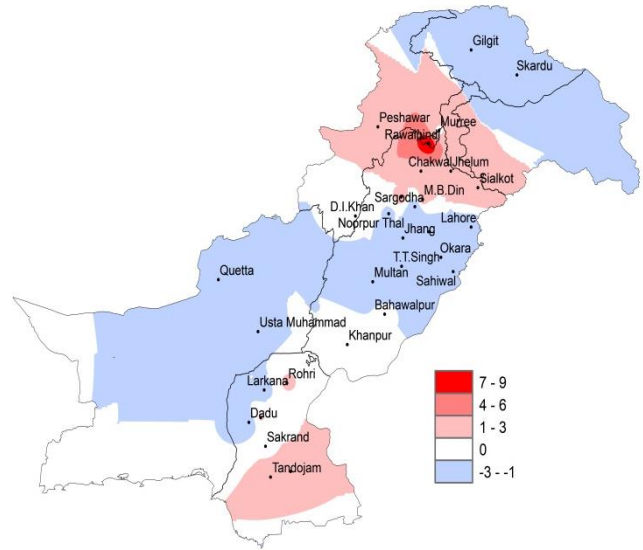
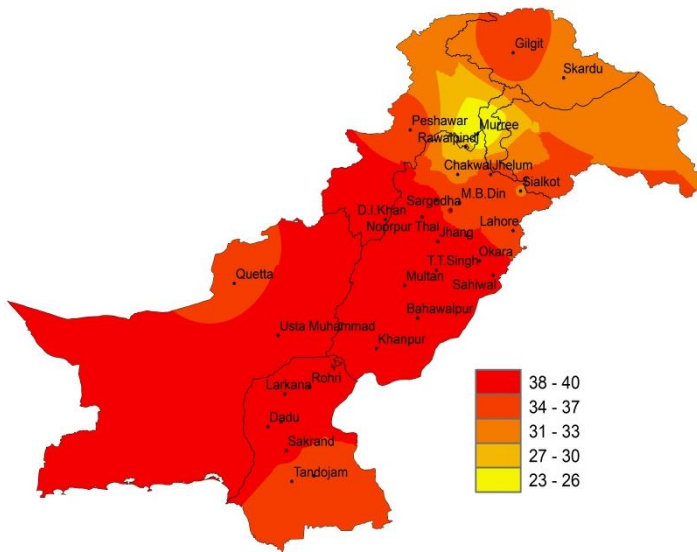
**Northern Baluchistan (Quetta)**

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

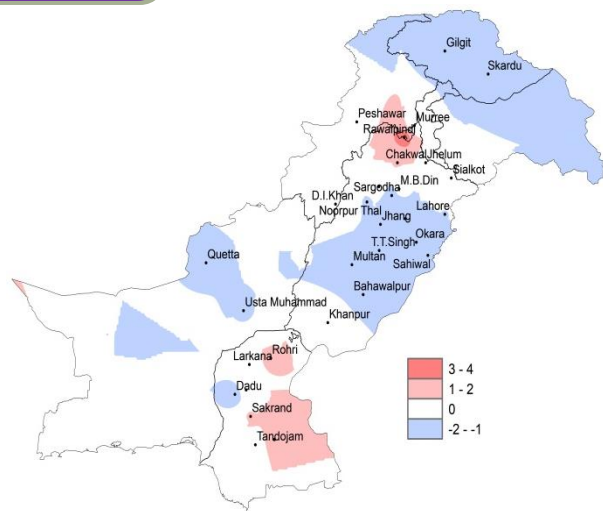
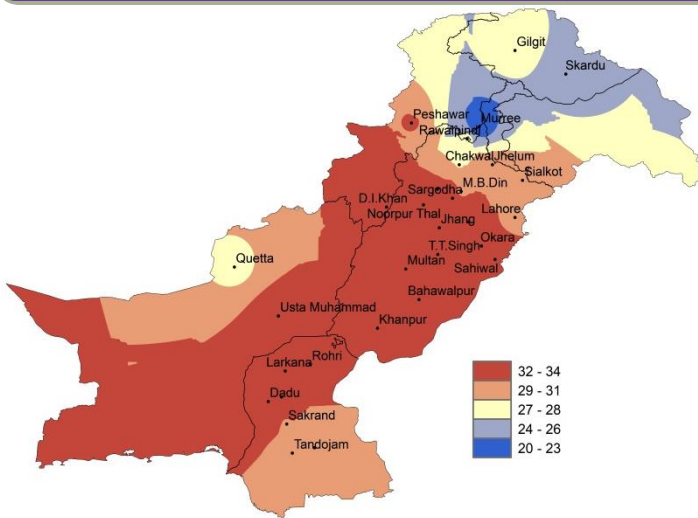
**Eastern Baluchistan (Usta Muhammad)**

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

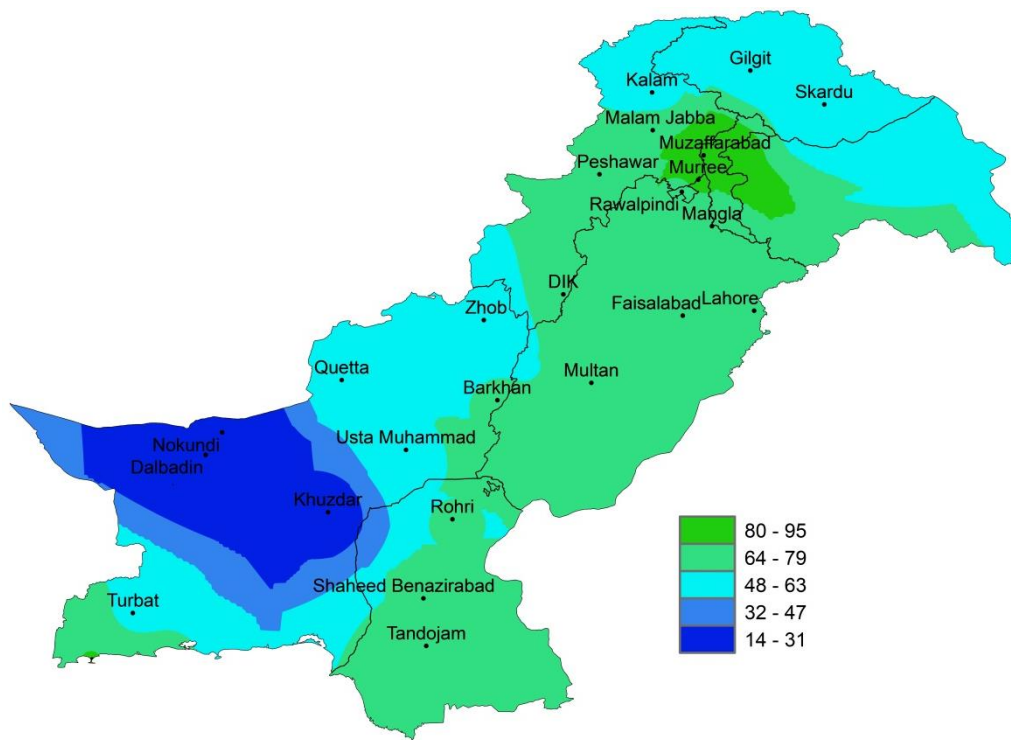
**Normal & Departure of Maximum temperature (°C) for the Previous week (1<sup>st</sup> August – 7<sup>th</sup> August, 2022)**



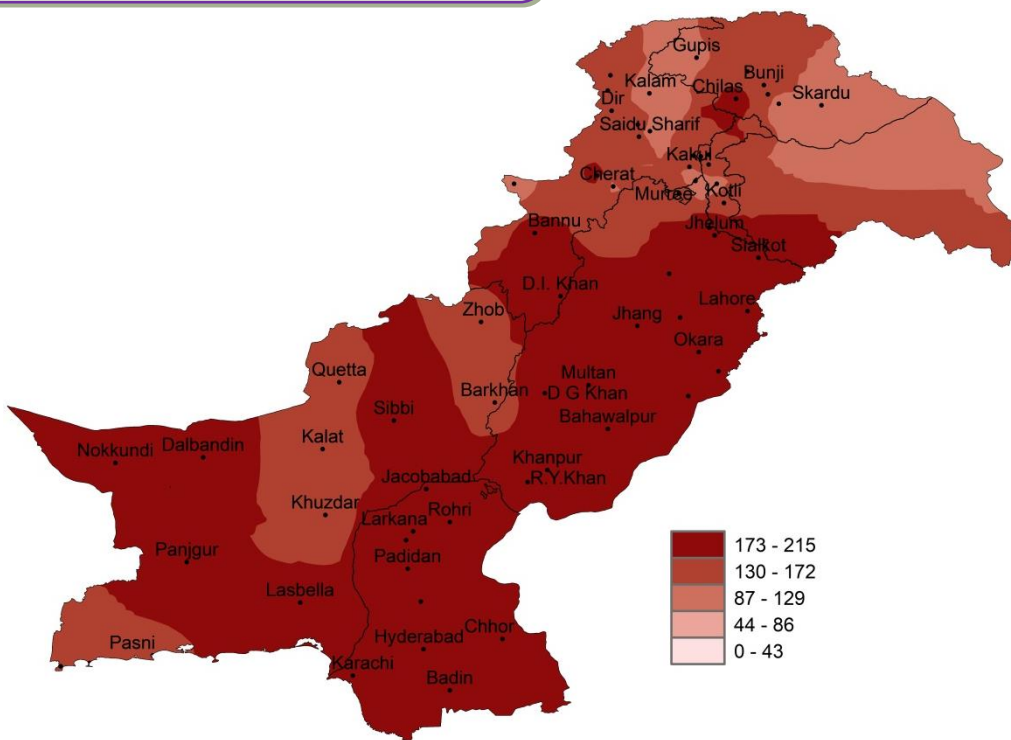
**Normal & Departure of Mean temperature (°C) for the Previous week (1<sup>st</sup> August – 7<sup>th</sup> August, 2022)**



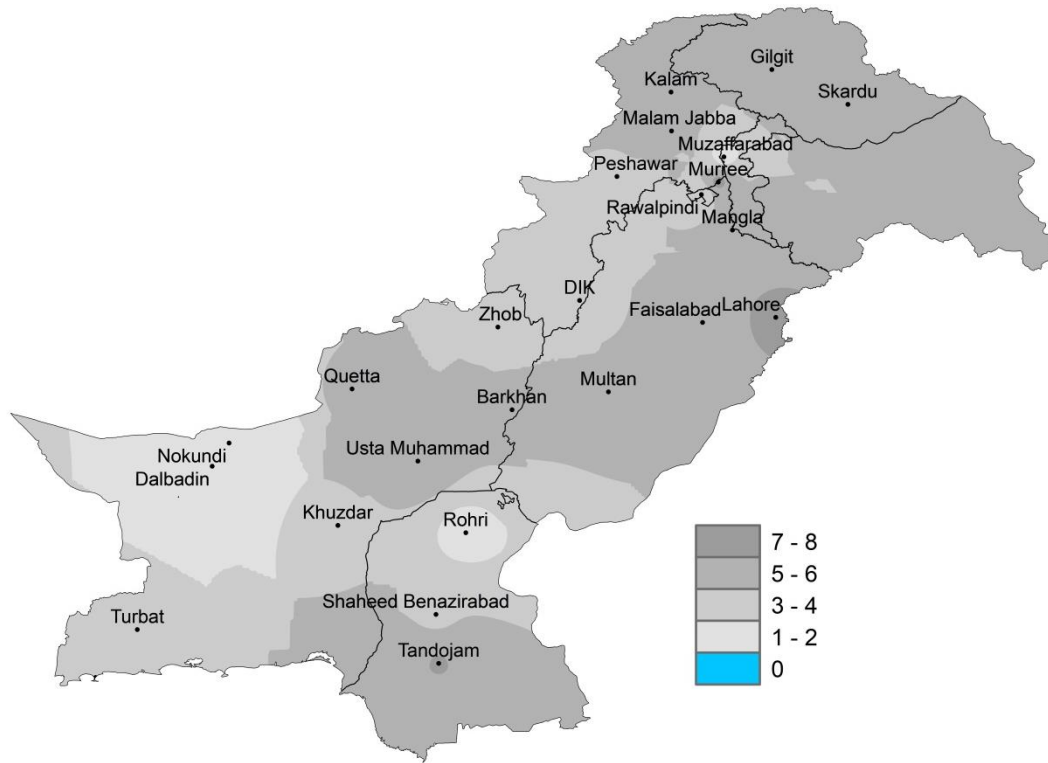
Mean Relative Humidity (%) during the  
Previous week (1<sup>st</sup> August – 7<sup>th</sup> August, 2022)



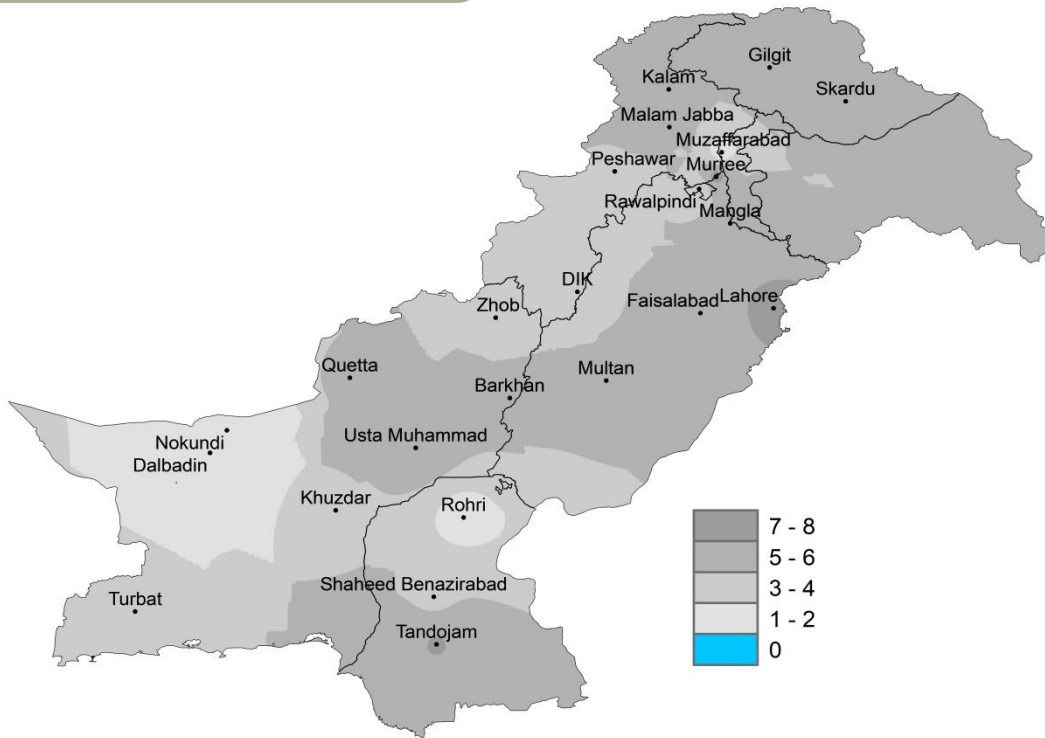
Total Growing Degree Days accumulated during the  
Previous week (1<sup>st</sup> August – 7<sup>th</sup> August, 2022)



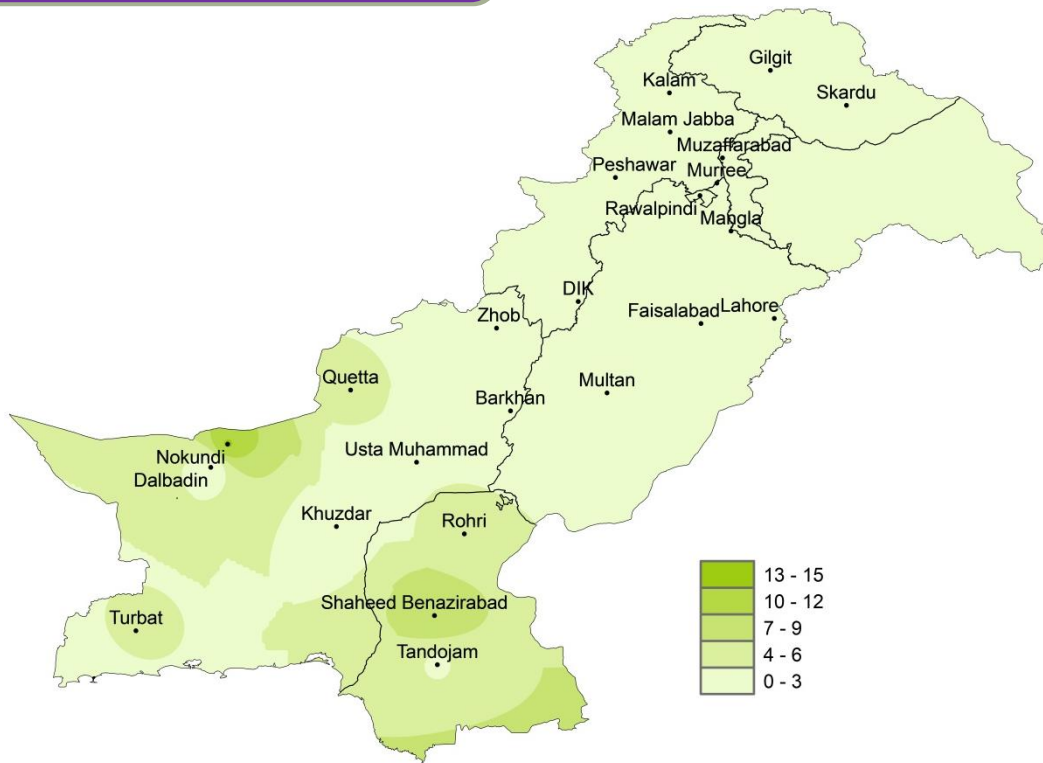
**Mean Cloudiness (Oktas) at 0800PST during the Previous week (1<sup>st</sup> August – 7<sup>th</sup> August, 2022)**



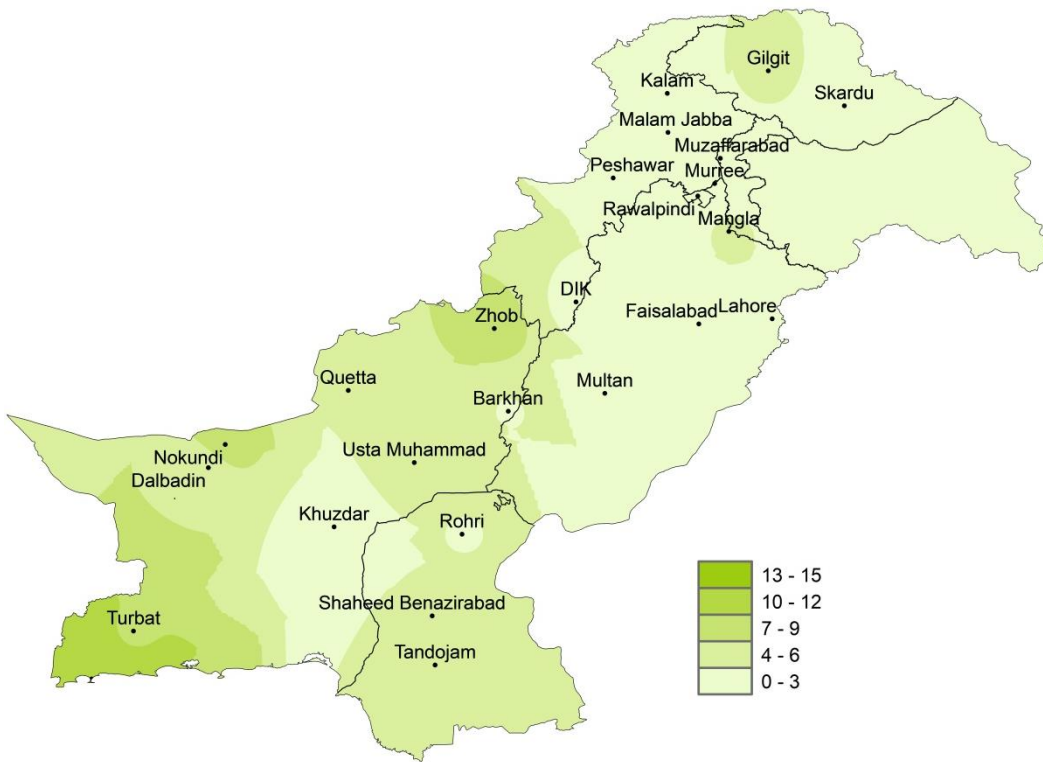
**Mean Cloudiness (Oktas) at 1700PST during the Previous week (1<sup>st</sup> August – 7<sup>th</sup> August, 2022)**



**Mean Wind Speed (Knots) at 0800PST during the Previous week (1<sup>st</sup> August – 7<sup>th</sup> August, 2022)**



**Mean Wind Speed (Knots) at 1700PST during the Previous week (1<sup>st</sup> August – 7<sup>th</sup> August, 2022)**





**Weekly Weather Advisory for Farmers****(8<sup>th</sup> August – 14<sup>th</sup> August, 2022)**

Monsoon currents are penetrating in upper and central parts of the country. Westerly wave is also affecting upper parts of the country.

**MONDAY****08-08-2022**

Mainly hot and humid weather is expected in most parts of the country. However, rain-wind/thundershower is likely at isolated places in north Balochistan, upper Punjab, Kashmir, Gilgit Baltistan and upper Khyber Pakhtunkhwa.

**TUESDAY****09-08-2022**

Mainly hot and humid weather is expected in most parts of the country. However, rain-wind/thundershower is likely at isolated places in north Balochistan, upper Punjab, Kashmir, Gilgit Baltistan and upper Khyber Pakhtunkhwa.

**WEDNESDAY****10-08-2022**

Humid and hot weather is expected in most parts of the country. However, rain-wind/thundershower is expected in Sindh, northeast/south Balochistan, northeast/south Punjab, upper Khyber Pakhtunkhwa and Kashmir. Heavy falls are likely at isolated places in lower Sindh and South Balochistan during the period.

**THURSDAY****11-08-2022**

Rain-wind/thundershower is expected in Kashmir, Punjab, Khyber Pakhtunkhwa, Sindh, northeast/south Balochistan and Gilgit Baltistan. Heavy falls are likely at scattered places in Kashmir, upper Punjab, Khyber Pakhtunkhwa and at isolated places in south Balochistan during the period.

**FRIDAY****12-08-2022**

Rain-wind/thundershower is expected in Khyber Pakhtunkhwa, South/central Punjab, Potohar region, Sindh, eastern/ south Balochistan, Gilgit Baltistan and Kashmir. Isolated heavy falls are also likely in, east/south Balochistan, lower Sindh and Gilgit Baltistan.

**SATURDAY****13-08-2022**

Rain-wind/thundershower is expected in South/central Punjab, upper Khyber Pakhtunkhwa,

Sindh, eastern/ south Balochistan ,Gilgit Baltistan and Kashmir.

Isolated heavy falls are also likely in Sindh and southeast/ eastern Balochistan.

**SUNDAY****14-08-2022**

Rain-wind/thundershower is expected in Islamabad, Punjab, upper Khyber Pakhtunkhwa, Sindh, Balochistan, Gilgit Baltistan and Kashmir. Isolated heavy falls are also likely in Sindh, east/southeast Balochistan and Kashmir..

**ADVISORY FOR FARMERS**

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

**National Weather Data of Selected Cities from (1<sup>st</sup> August – 7<sup>th</sup> August, 2022)**

Stations	Maximum/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	36.9	40.0	191.8	71	0.01	3.7	3.1	2.0	2.0
Faisalabad	35.4	36.5	181.8	73	0.01	2.6	4.4	1.1	1.6
Gawadar	32.6	33.5	169.3	80	0.00	4.7	2.4	0.9	11.1
Gilgit	33.1	39.5	142.8	58	1.42	4.7	6.0	0.0	4.0
Kalam	26.4	28.0	97.0	50	1.50	2.9	5.6	0.0	1.0
Khuzdar	34.6	35.5	157.3	20	8.60	1.6	3.4	0.9	0.0
Lahore	33.6	35.5	175.8	79	79.60	7.0	6.3	0.0	1.7
Malam Jabba	21.5	23.0	92.5	75	0.00	3.9	5.2	0.6	2.7
Mangla	35.0	36.0	179.3	74	0.00	4.7	4.4	0.0	3.7
Multan (PBO)	35.6	38.2	183.4	68	0.02	5.4	4.4	1.4	2.6
Murree	22.3	24.3	97.9	82	49.00	5.0	6.6	0.9	0.3
Muzaffarabad	35.2	38.5	161.4	95	15.00	2.3	1.1	0.0	0.0
Nawabshah	38.6	40.0	195.0	63	5.51	2.4	3.6	8.7	4.0
Peshawar	35.6	37.5	180.5	68	0.02	4.7	3.5	0.6	3.0
Quetta	33.4	34.5	153.3	34	0.00	1.8	2.8	2.3	3.1
Rawalpindi	35.0	37.0	169.4	68	4.20	4.7	5.3	0.9	0.6
Rohri	38.8	40.5	203.5	63	0.00	3.9	1.3	4.0	2.9
Skardu	29.2	34.7	120.4	50	4.91	4.3	5.2	0.0	1.0
Tandojam	36.0	37.2	178.9	68	25.50	3.3	3.4	2.5	4.2
Usta. M	83.3	39.5	193.0	69	1.00	4.0	3.0	1.4	1.7
Zhob	34.2	36.0	165.8	50	13.00	1.1	3.3	0.9	7.9

\*\*\* 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)