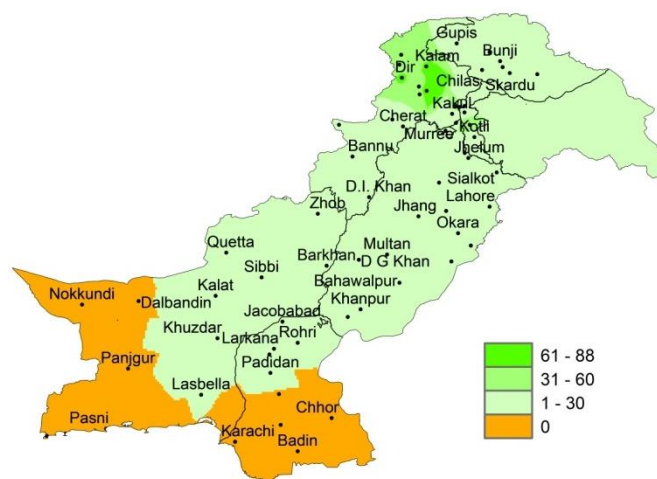


# Weekly Weather and Crop Bulletin for Pakistan

**NATIONAL AGROMET CENTRE  
PAKISTAN METEOROLOGICAL  
DEPARTMENT SECTOR H-8/2,  
ISLAMABAD**

**Phone: +92-51-9250299**

**Email: [dirnamc@yahoo.com](mailto:dirnamc@yahoo.com)**



**Rainfall Distribution (mm) during the Previous Week (2<sup>nd</sup> – 8<sup>th</sup> May, 2022)**

## Contents

Highlights of past weather	1-2
Past weather for Agri Plains	3-4
Crop progress	4
Agro meteorological parameters	
• Temperature	5
• R.H and GDD	6
• Wind speed	7
• Cloudiness	8
Weather Outlook	9
Advisory for Farmers	9
National data for selected stations	10
AgMIP project findings	11

Normal to above normal day time temperatures were observed all over the country during the last week.

Rainfall reported as follows during the last week:

1. Light to moderate rainfall reported from Punjab, Khyber Pakhtunkhwa, Kashmir, and Gilgit-Baltistan.
2. Light rainfall reported from a few stations in northeast Baluchistan and upper Sindh.

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

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

**Editor: Ruqiya Mehmood (Assistant Meteorologist)**

**Past Weather of Provinces (2<sup>nd</sup> – 8<sup>th</sup> May, 2022)****Punjab**

Light to moderate rainfall reported from Punjab during the week. Weekly maximum and minimum temperatures recorded as 38.9°C & 24.3°C respectively. For the recent week on average 186.2 growing degree days were accumulated. Average relative humidity recorded as 38% and wind speed in the morning/evening recorded as 3.1/3.2 Knots. During the previous week the highest precipitation was recorded as 29.0 mm at Murree while the highest maximum temperature was recorded as 46.8°C at Rahim Yar Khan.

**Baluchistan**

Light rainfall reported from a few stations in northeast Baluchistan during the week. Weekly maximum and minimum temperatures recorded as 36.4°C & 21.8°C respectively. For the recent week on average 168.6 growing degree days were accumulated. Average relative humidity recorded as 38% and wind speed in the morning/evening recorded as 1.0/6.6 Knots. During the previous week the highest precipitation was recorded as 2.0 mm at Sibbi while the highest maximum temperature was recorded as 48.0°C at Sibbi.

**Khyber Pakhtunkhwa**

Light to moderate rainfall reported from Khyber Pakhtunkhwa during the week. Weekly maximum and minimum temperatures recorded as 31.7°C & 16.3°C respectively. For the recent week on average 133.2 growing degree days were accumulated. Average relative humidity recorded as 55% and wind speed in the morning/evening recorded as 1.4/2.2 Knots. During the previous week the highest precipitation was recorded as 89.0 mm at Malam Jabba while the highest maximum temperature was recorded as 43.5°C at D.I. Khan.

**Sindh**

Light rainfall reported from a few stations in upper Sindh during the week. Weekly maximum and minimum temperatures recorded as 41.7°C &

26.3°C respectively. For the recent week, on average 203.0 growing degree days were accumulated. Average relative humidity recorded as 44% and wind speed in the morning/evening recorded as 4.5/6.9 Knots. During the previous week the highest precipitation was recorded as 3.0 mm at Jacobabad while the highest maximum temperature was recorded as 48.0°C at Jacobabad.

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

Light to moderate rainfall reported from Gilgit-Baltistan & Kashmir during the week. Weekly maximum and minimum temperatures recorded as 29.6°C & 14.8°C respectively. For the recent week on average 120.4 growing degree days were accumulated. Average relative humidity recorded as 40% and wind speed in the morning/evening recorded as 1.7/4.5 Knots. During the previous week the highest precipitation was recorded as 44.3 mm at Rawalakot while the highest maximum temperature was recorded as 39.0°C at Chillas.

**Past Weather for Major Agricultural Plains****(2<sup>nd</sup> – 8<sup>th</sup> May, 2022)****Rawalpindi (Potohar region)**

Rainfall reported as 12.2 mm from Rawalpindi during the week; however, cloudiness in the morning/evening recorded as 2.9/1.4 Oktas while, average relative humidity observed as 46%. Mean day time temperature recorded as 36.7°C & for the recent week 163.0 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.8/0.9Knots.

**Faisalabad (Central Punjab)**

Dry weather reported from Faisalabad during the week; however, clear sky observed in the morning/evening while, average relative humidity observed as 34%. Mean day time temperature recorded as 40.2°C & for the recent week 196.7 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.1/1.9Knots.

**Tandojam (Lower Sindh)**

Dry weather reported from Tandojam during the week; however, clear sky observed in the morning/evening while, average relative humidity observed as 55%. Mean day time temperature recorded as 39.5°C & for the recent week 187.1 growing degree days accumulated. Wind speed recorded in the morning/evening as 3.2/5.1 Knots.

**Usta Muhammad (Eastern Baluchistan)**

Rainfall reported as 3.0 mm from Usta Muhammad during the week; however, cloudiness in the morning/evening recorded as 1.8/0.8 Oktas while, average relative humidity observed as 40%. Mean day time temperature recorded as 44.5°C & for the recent week 219.0 growing degree days accumulated. Wind speed recorded in the morning/evening as 2.5/3.1 Knots.

**Quetta (Northern Baluchistan)**

Dry weather reported from Quetta during the week; however, cloudiness in the morning/evening recorded as 2.4/3.4 Oktas while, average relative humidity observed as 21%. Mean day time temperature recorded as 30.6°C & for the recent week 126.7 growing degree days accumulated. Wind speed recorded in the morning/evening as 2.6/2.7 Knots.

**Past Weather for Sub-Regional Agricultural****Plains (2<sup>nd</sup> – 8<sup>th</sup> May, 2022)****Multan**

Dry weather reported from Multan during the week; however, cloudiness in the morning/evening recorded as 0.9/0.4 Oktas while, average relative humidity observed as 31%. Mean day time temperature recorded as 41.0°C & for the recent week 205.5 growing degree days accumulated. Wind speed recorded in the morning/evening as 5.4/6.6 Knots.

**Lahore**

Dry weather reported from Lahore during the week; however, cloudiness in the morning/evening recorded as 2.0/0.7 Oktas while, average relative humidity observed as 36%. Mean day time temperature recorded as 38.7°C & for the recent week 190.8 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.4/1.7 Knots.

**Zhob**

Dry weather reported from Zhob during the week; however, cloudiness in the morning/evening recorded as 0.3/2.6 Oktas while, average relative humidity observed as 30%. Mean day time temperature recorded as 34.1°C & for the recent week 154.2 growing degree days accumulated. Wind speed recorded in the morning/evening as 2.0/7.9 Knots.

**Murree**

Rainfall reported as 29.0 mm from Murree during the week; however, cloudiness in the morning/evening recorded as 2.0/2.9 Oktas while, average relative humidity observed as 48%. Mean day time temperature recorded as 24.3°C & for the recent week 96.4 growing degree days accumulated. Wind speed recorded in the morning/evening as 2.6/1.4 Knots.

**D.I. Khan**

Rainfall reported as 24.0 mm from Murree during the week however, cloudiness in the morning/evening recorded as 1.4/1.9 Oktas while, average relative humidity observed as 46%. Mean day time temperature recorded as 39.9°C & for the recent week 186.8 growing degree days accumulated. Wind speed recorded in the morning/evening as 2.0/2.0Knots.

**Peshawar**

Rainfall reported as 17.4 mm from Kalam during the week; however, cloudiness in the morning/evening recorded as 2.1/2.3 Oktas while, average relative humidity observed as 52%. Mean day time temperature recorded as 35.9°C & for the recent week 163.8 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.6/2.3Knots.

**Kalam**

Rainfall reported as 61.0 mm from Kalam during the week; however, cloudiness in the morning/evening recorded as 2.7/4.9 Oktas while, average relative humidity observed as 30%. Mean day time temperature recorded as 23.1°C& for the recent week 66.0 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/4.3 Knots.

**Gilgit**

Rainfall reported as 0.8 mm from Gilgit during the week. However, cloudiness in the morning/evening recorded as 3.9/5.9 Oktas while, average relative humidity observed as 38%. Mean day time temperature recorded as 31.9°C& for the recent week 125.0 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.7/8.0 Knots.

**Skardu**

Dry weather reported from Skardu during the week; however, cloudiness in the morning/evening recorded as 3.4/3.3 Oktas while, average relative humidity observed as 30%. Mean day time temperature recorded as 27.3°C& for the recent week 96.5 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.3/4.3 Knots.

**Crop Condition 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 harvested** on 13-04-2022 in the fields of RAMC Faisalabad.

**No crop at present.**

**Lower Sindh (Tandojam)**

Land is being prepared for the new crop in the fields of RAMC Tandojam.

**Northern Baluchistan (Quetta)**

Presently Wheat crop is standing in the fields of RAMC Quetta.

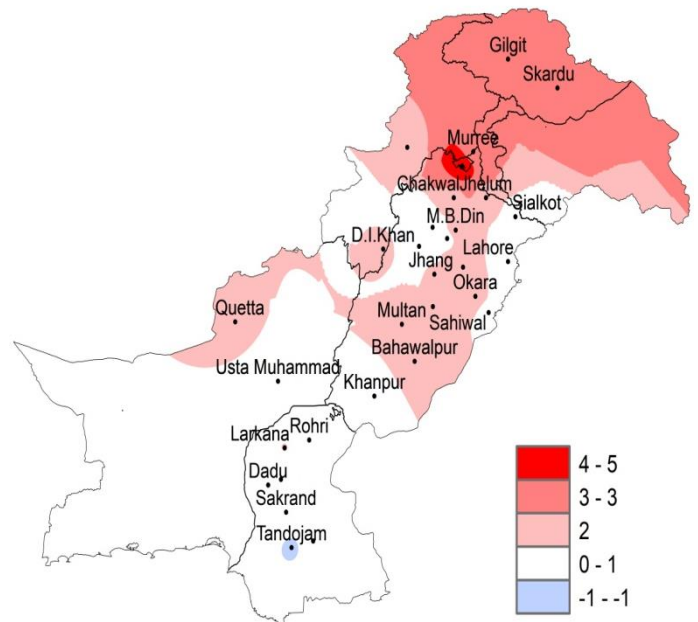
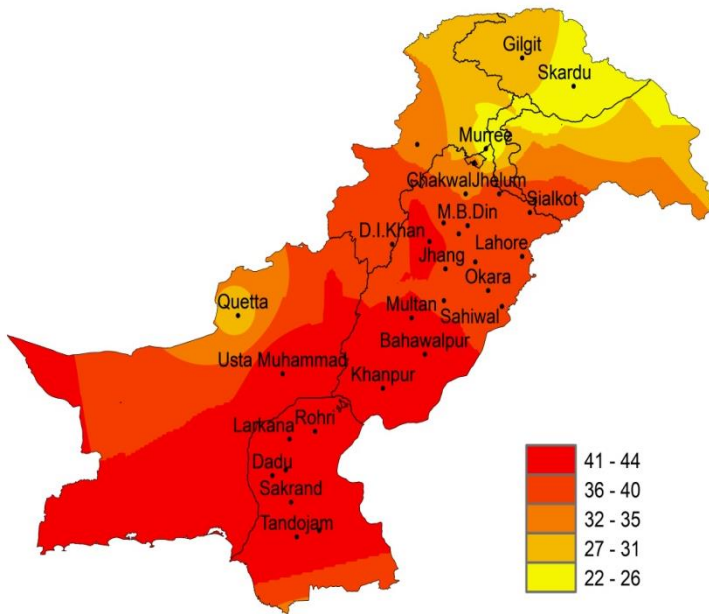
**Wheat;** Good, *Milk Maturity Stage.*

**Eastern Baluchistan (Usta Muhammad)**

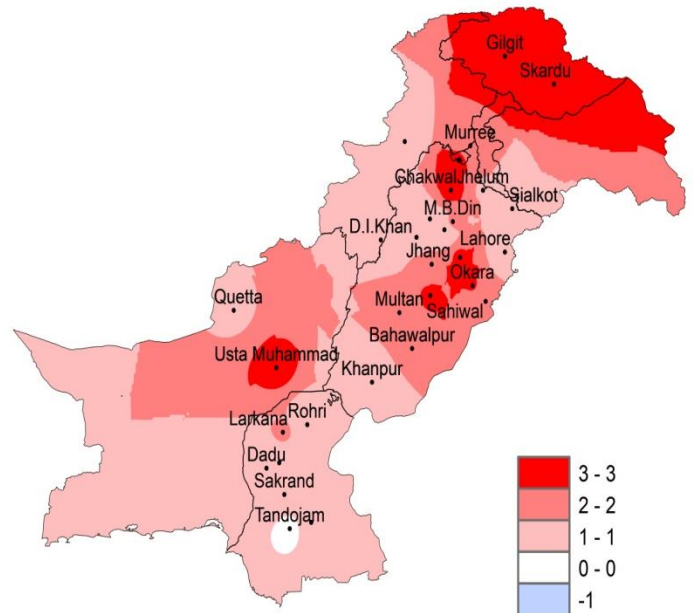
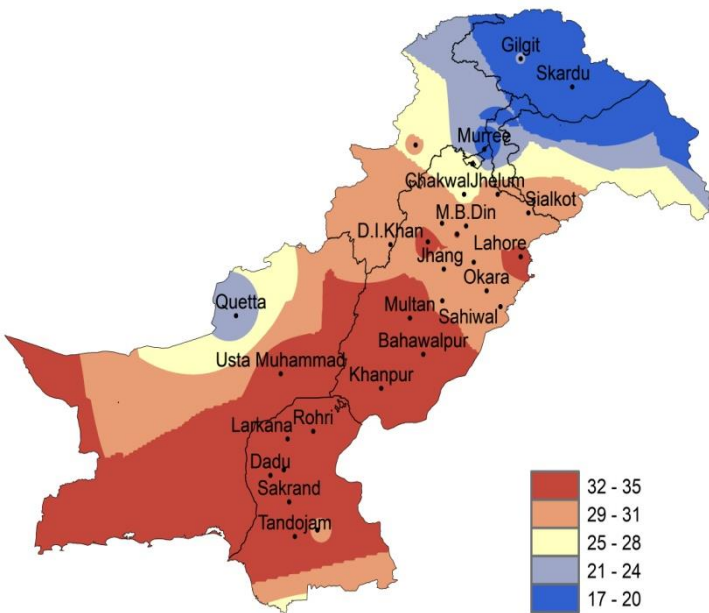
**Wheat Crop harvested** on 15-04-2022 in the fields of RAMC Faisalabad.

**No crop at present.**

Normal & Departure of Maximum temperature (°C) for the previous week (2<sup>nd</sup> – 8<sup>th</sup> May, 2022)

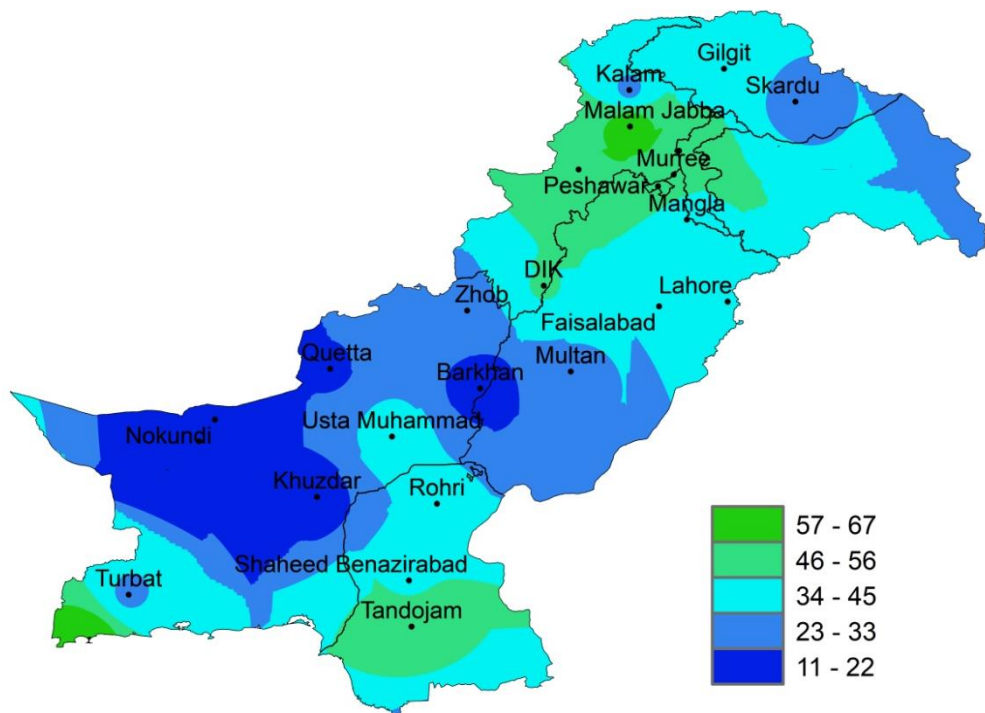


Normal & Departure of Mean temperature (°C) for the previous week (2<sup>nd</sup> – 8<sup>th</sup> May, 2022)

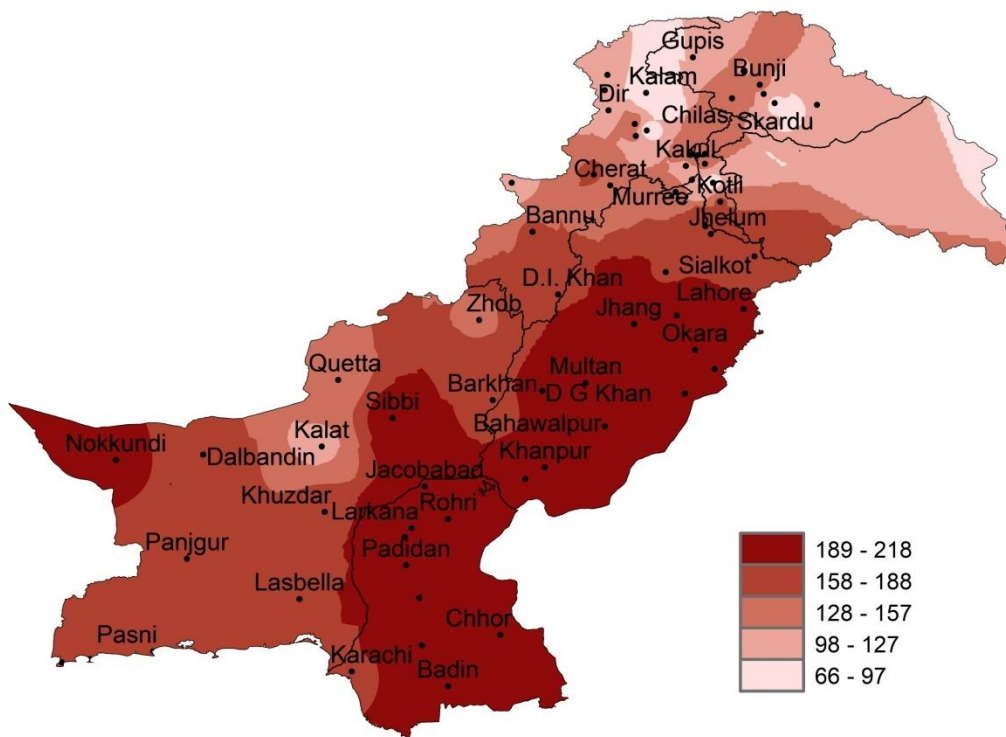




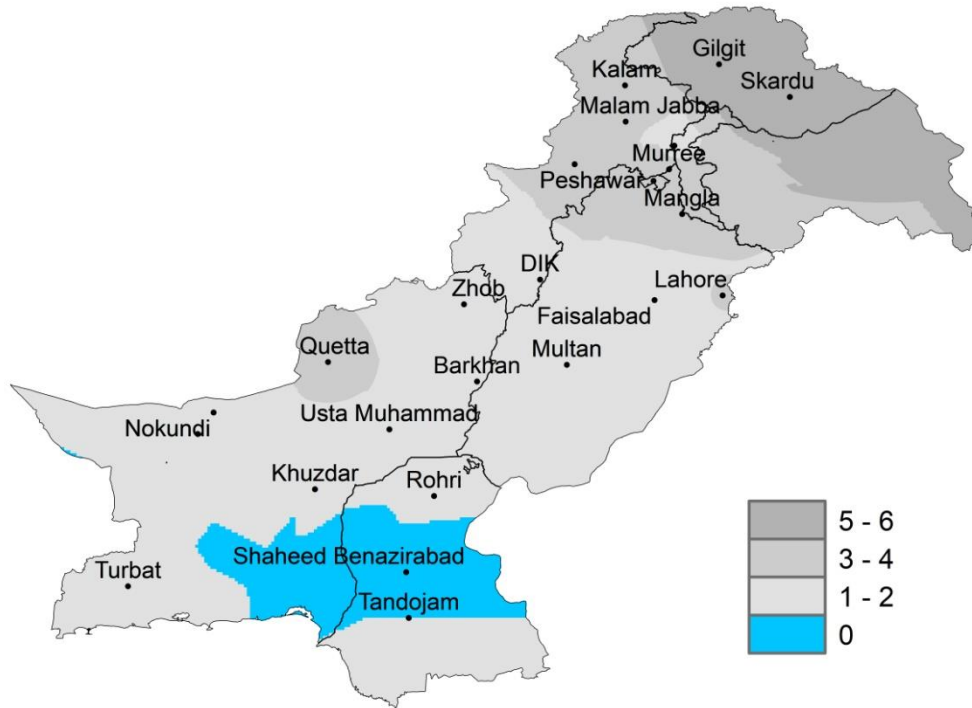
Mean Relative Humidity (%) during the Previous week (2<sup>nd</sup> – 8<sup>th</sup> May, 2022)



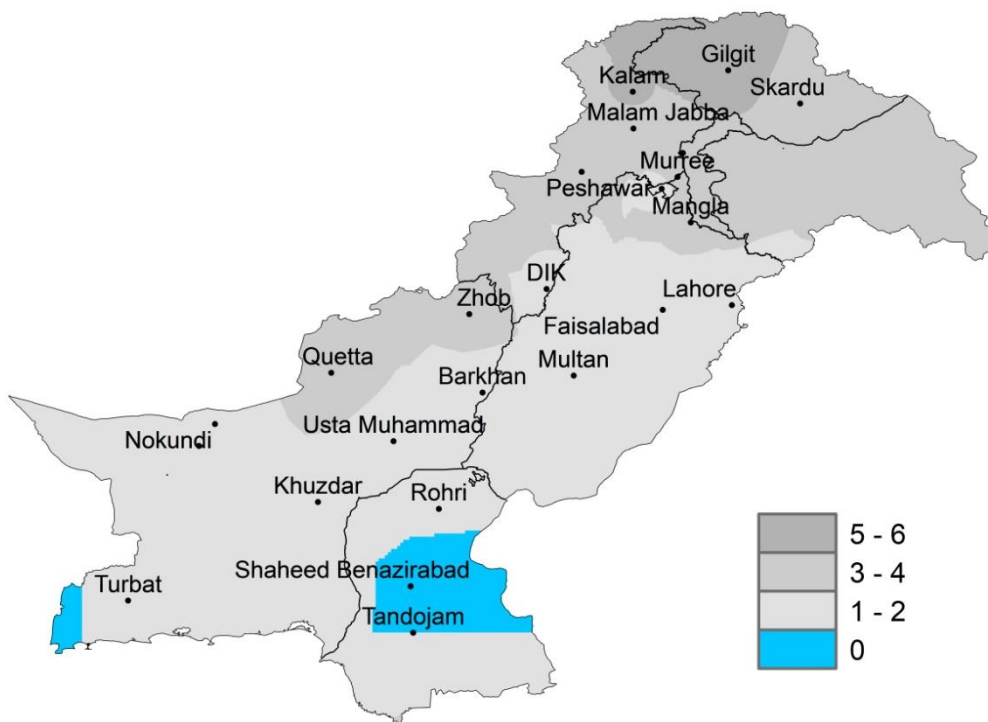
Total Growing Degree Days accumulated during the previous week (2<sup>nd</sup> – 8<sup>th</sup> May, 2022)



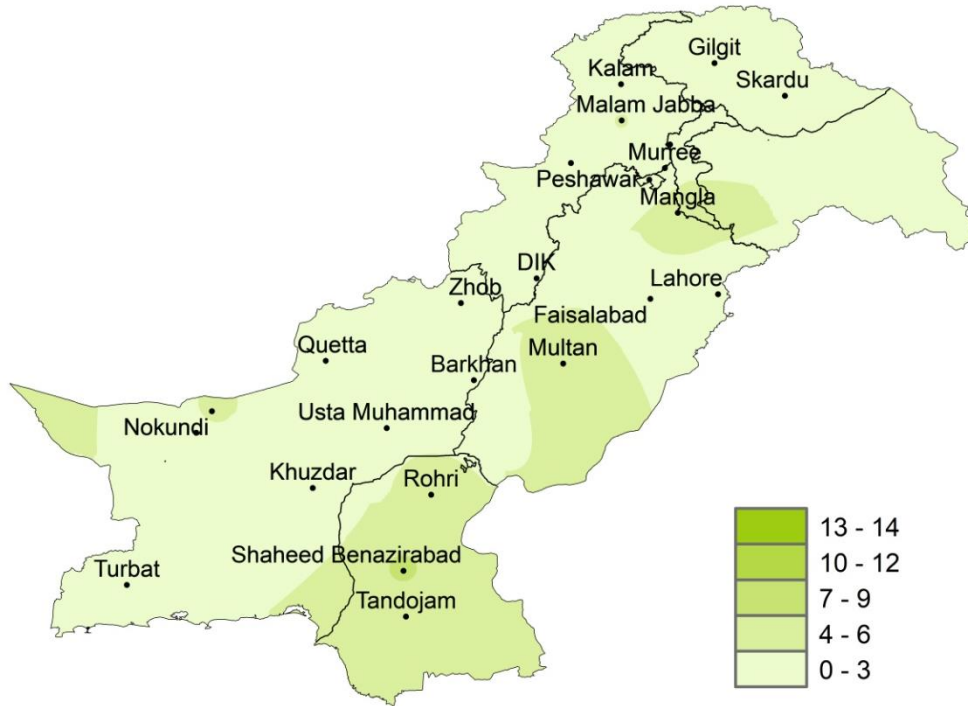
Mean Cloudiness (Oktas) at 0800PST during the previous week (2<sup>nd</sup> – 8<sup>th</sup> May, 2022)



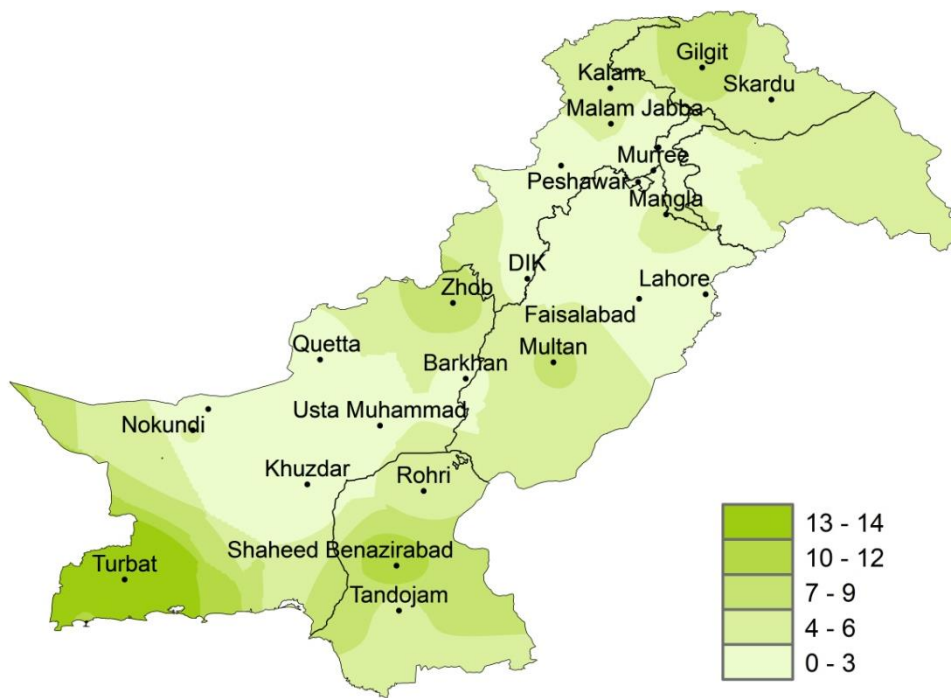
Mean Cloudiness (Oktas) at 1700PST during the previous week (2<sup>nd</sup> – 8<sup>th</sup> May, 2022)



**Mean Wind Speed (Knots) at 0800PST during the previous week (2<sup>nd</sup> – 8<sup>th</sup> May, 2022)**



**Mean Wind Speed (Knots) at 1700PST during the previous week (2<sup>nd</sup> – 8<sup>th</sup> May, 2022)**





**Weekly Weather Advisory for Farmers****(9<sup>th</sup> – 15<sup>th</sup> May, 2022)**

Due to high pressure in upper atmosphere, day temperatures are likely to increase in most parts of the country.

**MONDAY****09-05-2022**

Hot and dry weather is expected in most parts of the country, while severe heat wave conditions are likely to prevail in plain areas.

**TUESDAY****10-05-2022**

Hot and dry weather is expected in most parts of the country, while the plain areas will be under the influence of severe heat wave conditions.

**WEDNESDAY****11-05-2022**

Very hot and dry weather is expected in most parts of the country, while gusty/dust raising winds are expected in upper Sindh and south Punjab.

**THURSDAY****12-05-2022**

Very hot and dry weather is expected in most parts of the country, while gusty/dust raising winds are expected in upper Sindh and south Punjab. However, rain-wind-thunderstorm is expected at isolated places in Gilgit-Baltistan, Kashmir and adjoining hilly areas.

**FRIDAY****13-05-2022**

Very hot and dry weather is expected in most parts of the country, while gusty/dust raising winds are expected in Balochistan, upper Sindh and south Punjab. However, rain-wind-thunderstorm is expected at isolated places in Gilgit-Baltistan, Kashmir and adjoining hilly areas.

**SATURDAY****14-05-2022**

Very hot and dry weather is expected in most parts of the country. However, rain-wind-thunderstorm is expected at isolated places in upper Khyber Pakhtunkhwa, Gilgit-Baltistan and Kashmir.

**SUNDAY****15-05-2022**

Mainly very hot and dry weather is expected in most parts of the country. While, gusty/dust raising winds are expected in Balochistan, upper Sindh and south Punjab.

**ADVISORY FOR FARMERS**

1. Farmers of central/southern Punjab and Sindh may complete the sowing of Cotton crop.
2. The Rice belts of Punjab and Sindh may schedule their irrigation and harvesting of local varieties in the light of weather forecast.

**National Weather Data of Selected Cities from (2<sup>nd</sup> – 8<sup>th</sup> May, 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	Maximum							
Barkhan	36.7	39.5	169.5	16	0.0	0.4	1.3	0.0	2.6
Dalbandin	39.3	42.5	181.0	19	0.0	0.0	1.0	0.6	3.4
D.I. Khan	39.9	43.5	186.8	46	24.0	1.4	1.9	2.0	2.0
Faisalabad	40.2	43.0	196.7	34	0.0	0.0	0.0	1.1	1.9
Gawadar	34.9	35.5	172.8	67	0.0	1.0	0.0	0.9	11.4
Gilgit	31.9	37.0	125.0	38	0.8	3.9	5.9	0.7	8.0
Kalam	23.1	28.0	66.0	30	61.0	2.7	4.9	0.0	4.3
Khuzdar	36.1	37.5	173.8	16	0.0	0.0	1.3	0.0	0.6
Lahore	38.7	40.8	190.8	36	0.0	2.0	0.7	1.4	1.7
MalamJabba	19.9	25.0	68.0	65	89.0	2.0	3.3	3.1	3.4
Mangla	37.3	39.5	174.2	41	11.2	2.9	2.9	5.1	4.9
Multan (PBO)	41.0	45.1	205.5	31	0.0	0.9	0.4	5.4	6.6
Murree	24.3	28.0	96.4	48	29.0	2.0	2.9	2.6	1.4
Muzaffarabad	32.6	37.2	146.7	53	32.2	1.7	2.4	0.6	0.9
Nokkundi	43.3	46.0	207.1	42	0.0	0.0	0.0	6.3	10.9
Nawabshah	40.1	42.5	192.8	11	0.0	0.4	0.6	3.7	2.6
Peshawar	35.9	40.5	163.8	52	17.4	2.1	2.3	0.6	2.3
Quetta	30.6	33.5	126.7	21	0.0	2.4	3.4	2.6	2.7
Rawalpindi	36.7	40.0	163.0	46	12.2	2.9	1.4	0.9	0.8
Rohri	42.9	46.0	214.3	36	0.0	0.0	0.0	4.0	4.9
Skardu	27.3	30.5	96.5	30	0.0	3.4	3.3	0.3	4.3
Tandojam	39.5	40.5	187.1	55	0.0	0.0	0.0	3.2	5.1
Turbat	41.9	43.5	201.8	31	0.0	0.0	0.0	0.7	14.3
Usta. M	44.5	49.0	219.0	40	3.0	1.8	0.8	2.5	3.1
Zhob	34.1	40.0	154.2	30	0.0	0.3	2.6	2.0	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 day 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 2012-2014)