

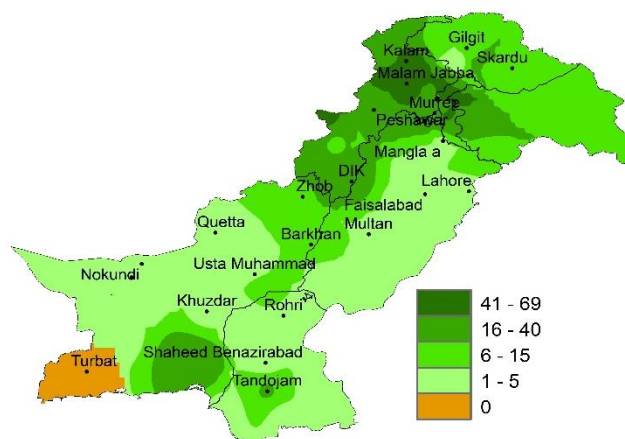
# Weekly Weather and Crop Bulletin for Pakistan

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

## ISLAMABAD

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**Rainfall Distribution (mm) during the Previous Week (12<sup>th</sup> - 18<sup>th</sup> April, 2021)**

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### Highlights of Past Weather (12<sup>th</sup> - 18<sup>th</sup> April, 2021)

Above normal day time temperatures were observed in Sindh, below normal in Punjab, Baluchistan, Khyber Pakhtunkhwa, Kashmir and Gilgit-Baltistan, while mix trend was observed in Baluchistan during the last week.

Rainfall reported as follows during the last week:

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

**Patron-in-Chief:** Muhammad Riaz (Director General)

**Editor-in-Chief:** Dr Muhammad Afzaal (Director)

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

**Past Weather of Provinces (12<sup>th</sup> – 18<sup>th</sup> April, 2021)****Punjab**

Light to moderate rainfall reported from Punjab during the week. Weekly maximum and minimum temperatures recorded as 33.2°C & 19.1°C respectively. For the recent week on average 148.1 growing degree days were accumulated. Average relative humidity recorded as 46% and wind speed in the morning/evening recorded as 3.4/4.4 Knots. During the previous week the highest precipitation was observed as 29.0 mm at Murree while the highest maximum temperature was recorded as 42.0°C at R.Y.Khan.

**Baluchistan**

Light to moderate rainfall reported from a few stations in Baluchistan during the week. Weekly maximum and minimum temperatures recorded as 32.2°C & 17.6°C respectively. For the recent week on average 139.4 growing degree days were accumulated. Average relative humidity recorded as 46% and wind speed in the morning/evening recorded as 1.2/8.7 Knots. During the previous week the highest precipitation was observed as 35.0 mm at Lasbella while the highest maximum temperature was recorded as 41.5°C at Lasbella.

**Khyber Pakhtunkhwa**

Light to moderate rainfall reported from Khyber Pakhtunkhwa during the week. Weekly maximum and minimum temperatures recorded as 23.4°C & 11.7°C respectively. For the recent week on average 88.1 growing degree days were accumulated. Average relative humidity recorded as 66% and wind speed in the morning/evening recorded as 1.9/2.6 Knots. During the previous week the highest precipitation was observed as 71.0 mm at Malamjabba while the highest maximum temperature was recorded as 38.0°C at D.I.Khan.

**Sindh**

Light rainfall reported from a few stations in Sindh during the week. Weekly maximum and minimum

temperatures recorded as 39.0°C & 22.4°C respectively. For the recent week, on average 179.9 growing degree days were accumulated. Average relative humidity recorded as 43% and wind speed in the morning/evening recorded as 2.8/4.7 Knots. During the highest precipitation was observed as 17.0 mm at Hyderabad while the maximum temperature was recorded as 44.5°C at Chhor.

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

Light to moderate rainfall reported from Gilgit-Baltistan and Azad Jammu & Kashmir during the week. Weekly maximum and minimum temperatures recorded as 20.6°C & 9.3°C respectively. For the recent week on average 69.7 growing degree days were accumulated. Average relative humidity recorded as 56% and wind speed in the morning/evening recorded as 0.6/3.8 Knots. During the previous week the highest precipitation was observed as 45.9 mm at Rawalakot while the highest maximum temperature was recorded as 34.2°C at Kotli.

**Past Weather for Major Agricultural Plains****(12<sup>th</sup> – 18<sup>th</sup> April, 2021)****Rawalpindi (Potohar region)**

Rainfall reported as 19.0 mm from Rawalpindi during the week; however, cloudiness in the morning/evening recorded as 5.6/5.6 Oktas while, average relative humidity observed as 61%. Mean day time temperature recorded as 28.9°C & for the recent week 125.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.8/1.2 Knots.

**Faisalabad (Central Punjab)**

Dry weather reported from Faisalabad during the week; however, cloudiness in the morning/evening recorded as 1.4/1.9 Oktas while, average relative humidity observed as 51%. Mean day time temperature recorded as 34.4°C & for the recent week 155.8 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.3/2.3 Knots.

**Tandojam (Lower Sindh)**

Rainfall reported as trace (not measurable) from Tandojam during the week; however, cloudiness in the morning/evening recorded as 0.6/1.6 Oktas while, average relative humidity observed as 56%. Mean day time temperature recorded as 38.7°C & for the recent week 167.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.9/1.1 Knots.

**Usta Muhammad (Eastern Baluchistan)**

Dry weather reported from Usta Muhammad during the week; however, cloudiness in the morning/evening recorded as 0.1/2.5 Oktas while, average relative humidity observed as 39%. Mean day time temperature recorded as 39.9°C & for the recent week 177.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.1/1.4 Knots.

**Quetta (Northern Baluchistan)**

Rainfall reported as 8.0 mm from Quetta during the week; however, cloudiness in the morning/evening recorded as 3.0/5.6 Oktas while, average relative humidity observed as 32%. Mean day time temperature recorded as 24.9°C & for the recent week 92.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 2.9/3.0 Knots.

**Past Weather for Sub-Regional Agricultural Plains (12<sup>th</sup> – 18<sup>th</sup> April, 2021)****Multan**

Dry weather reported from Multan during the week; however, cloudiness in the morning/evening recorded as 3.7/3.3 Oktas while, average relative humidity observed as 41%. Mean day time temperature recorded as 34.4°C & for the recent week 160.0 growing degree days accumulated. Wind speed recorded in the morning/evening as 3.3/4.9 Knots.

**Lahore**

Rainfall reported as 0.4 mm from Lahore during the week; however, cloudiness in the morning/evening recorded as 3.2/3.5 Oktas while, average relative humidity observed as 39%. Mean day time temperature recorded as 33.9°C & for the recent week 159.9 growing degree days accumulated. Wind speed recorded in the morning/evening as 4.0/5.0 Knots.

**Zhob**

Rainfall reported as 14.0 mm from Zhob during the week; however, cloudiness in the morning/evening recorded as 2.1/4.4 Oktas while, average relative humidity observed as 39%. Mean day time temperature recorded as 28.0°C & for the recent week 115.5 growing degree days accumulated. cloudiness in the morning/evening recorded as 3.3/7.9 Oktas.

**Murree**

Rainfall reported as 29.0 mm from Murree during the week; however, cloudiness in the morning/evening recorded as 6.4/6.3 Oktas while, average relative humidity observed as 59%. Mean day time temperature recorded as 16.9°C & for the recent week 47.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 2.9/3.4 Knots.

**D.I. Khan**

Rainfall reported as 27.0 mm from D.I. Khan during the week; however, cloudiness in the morning/evening recorded as 4.1/4.9 Oktas while, average relative humidity observed as 59%. Mean day time temperature recorded as 32.6°C & for the recent week 150.4 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.4/1.4 Knots.

**Peshawar**

Rainfall reported as 16.2 mm from Peshawar during the week; however, cloudiness in the morning/evening recorded as 4.7/6.0 Oktas while, average relative humidity observed as 60%. Mean day time temperature recorded as 29.6°C & for the recent week 129.2 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.9/2.6 Knots.

**Kalam**

Rainfall reported as 53.4 mm from Kalam during the week; however, cloudiness in the morning/evening recorded as 6.1/6.9 Oktas while, average relative humidity observed as 47%. Mean day time temperature recorded as 14.1°C & for the recent week 21.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/2.1 Knots.

**Gilgit**

Rainfall reported as 5.6 mm from Gilgit during the week. However, cloudiness in the morning/evening recorded as 6.7/7.1 Oktas while, average relative humidity observed as 56%. Mean day time temperature recorded as 21.6°C & for the recent week 76.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/5.4 Knots.

**Skardu**

Rainfall reported as 6.8 mm from Skardu during the week; however, cloudiness in the morning/evening recorded as 6.9/6.6 Oktas while, average relative humidity observed as 47%. Mean day time temperature recorded as 17.3°C & for the recent week 49.1 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/2.1 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)**

Presently wheat crop is standing in the fields of RAMC Faisalabad.

**Wheat: V. Good**, Maturity Stage Completed.

**Lower Sindh (Tandojam)**

Cotton Crop is sown on 12<sup>th</sup> April at RAMC Tandojam.

**Northern Baluchistan (Quetta)**

Presently wheat crop is grown in the fields of RAMC Quetta.

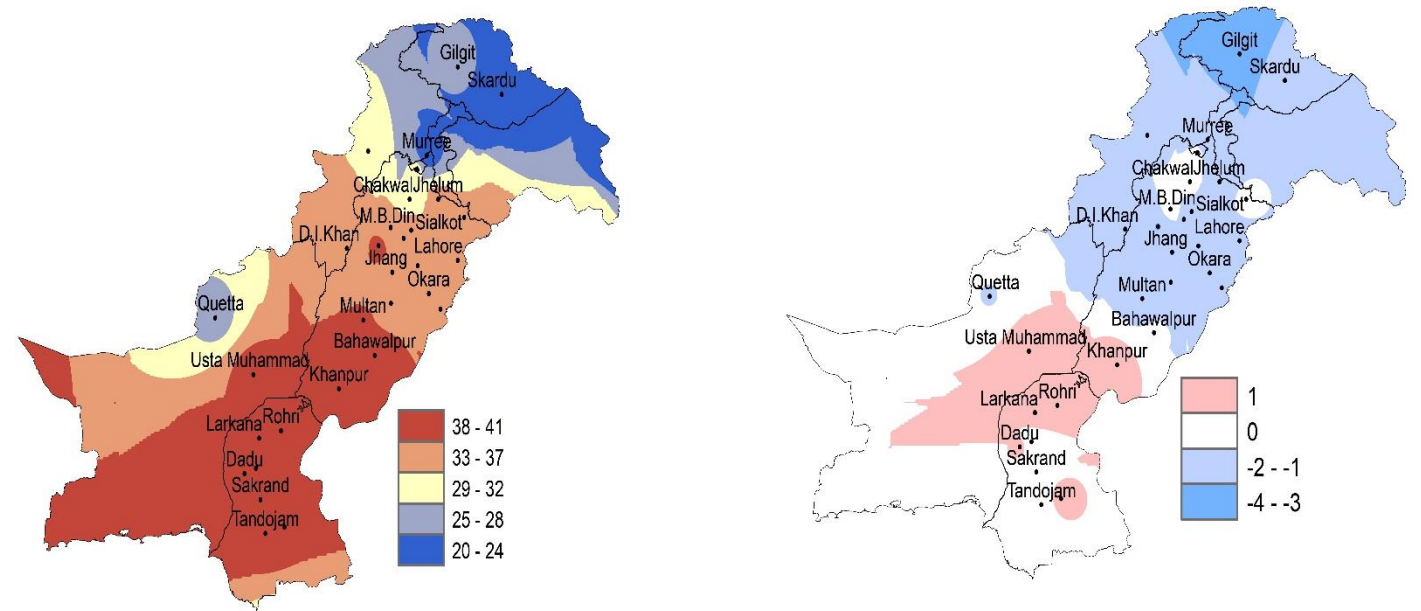
**Wheat: Good**, Crop Variety (Seriab-92), Heading Stage.

**Eastern Baluchistan (Usta Muhammad)**

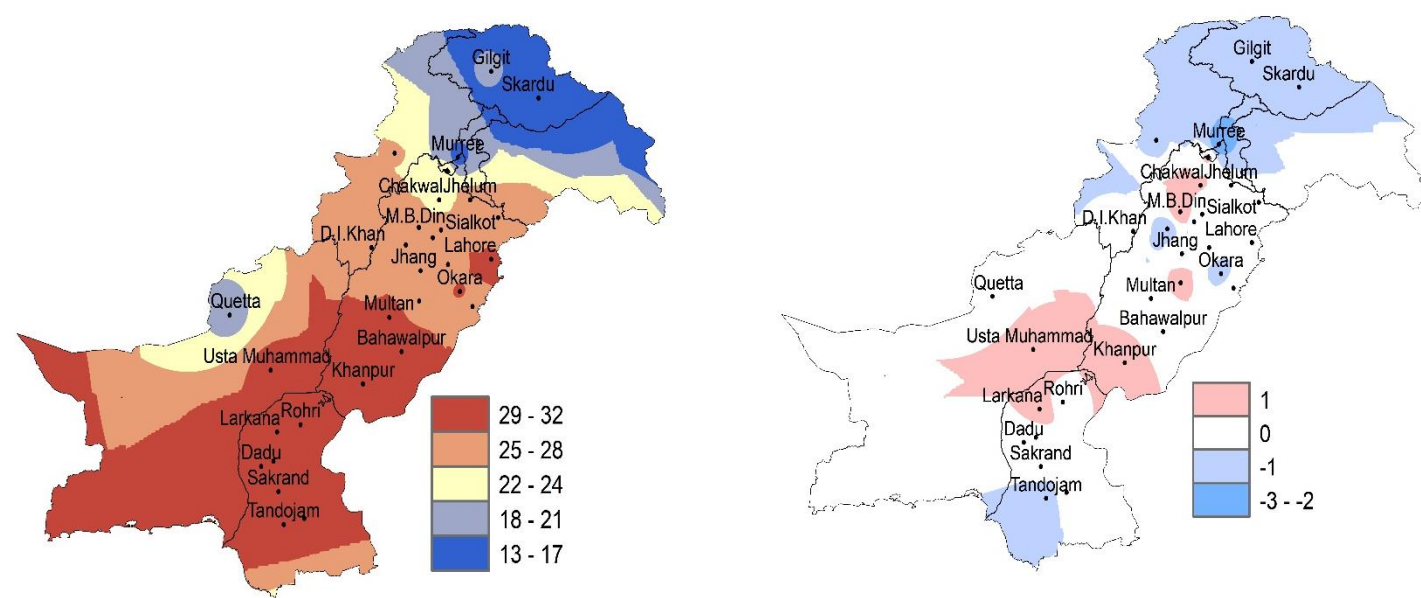
Presently wheat crop is sown in the fields of RAMC Usta Muhammad.

**Wheat: Good**, Wax Maturity Stage.

Normal & Departure of Maximum temperature (°C) for the previous week (12<sup>th</sup> – 18<sup>th</sup> April, 2021)

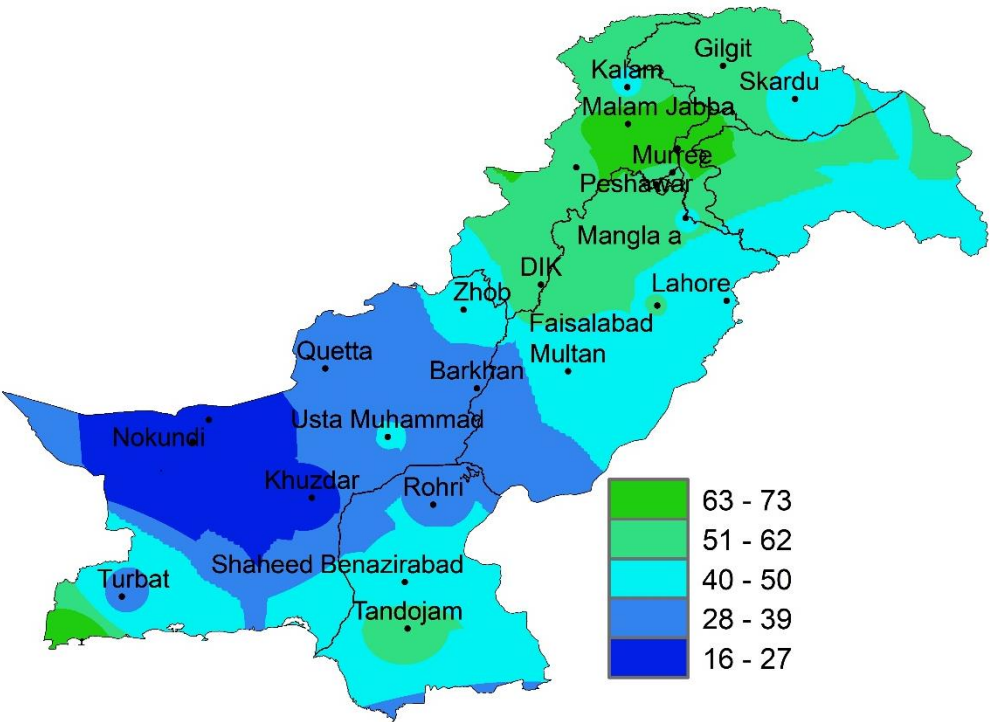


Normal & Departure of Mean temperature (°C) for the previous week (12<sup>th</sup> – 18<sup>th</sup> April, 2021)

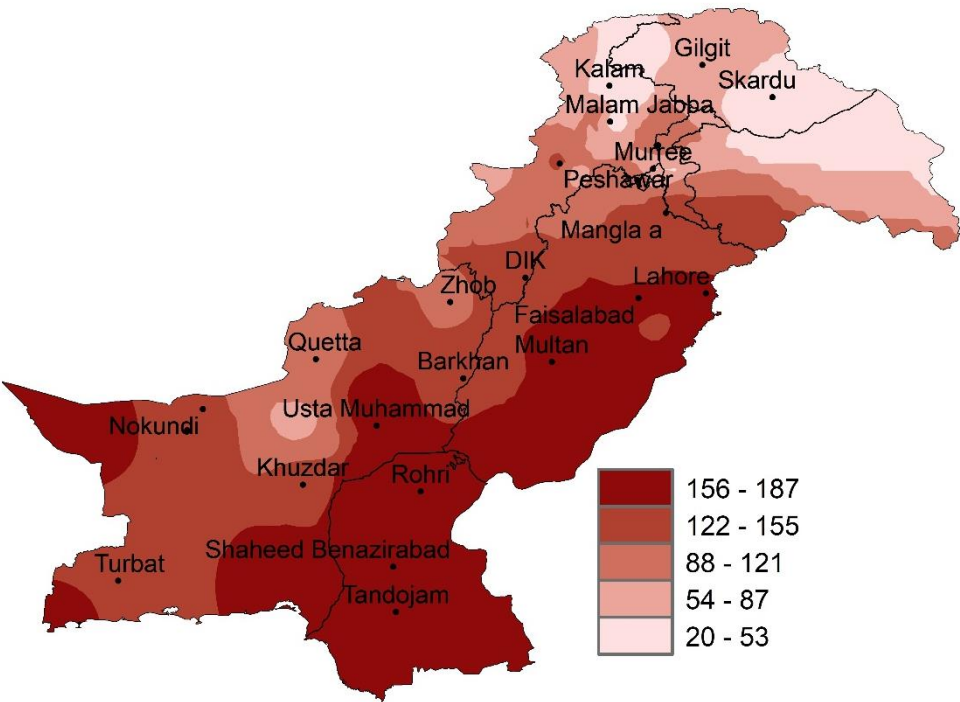




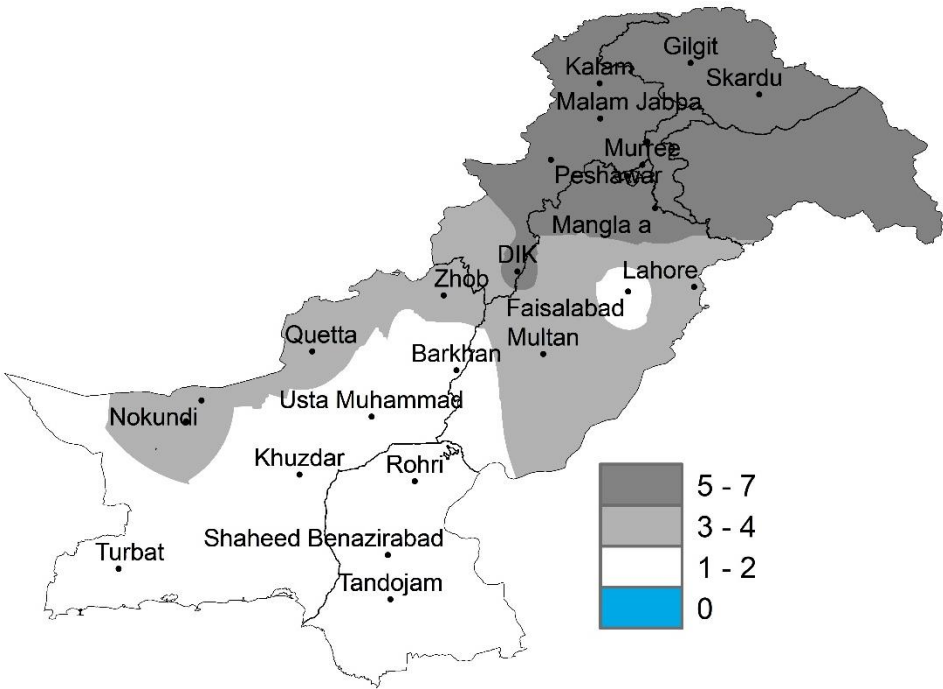
Mean Relative Humidity (%) during the previous week (12<sup>th</sup> – 18<sup>th</sup> April, 2021)



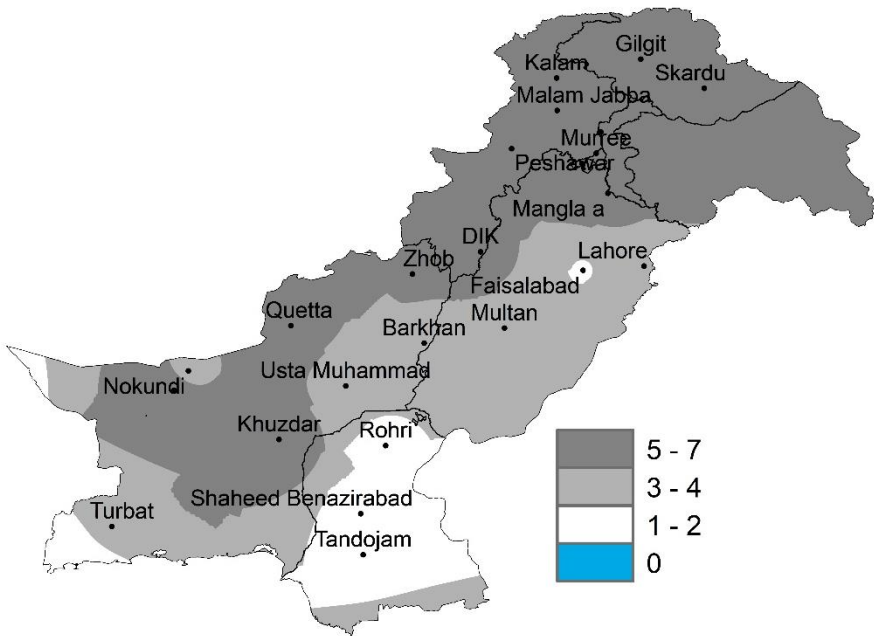
Total Growing Degree Days accumulated during the previous week (12<sup>th</sup> – 18<sup>th</sup> April, 2021)



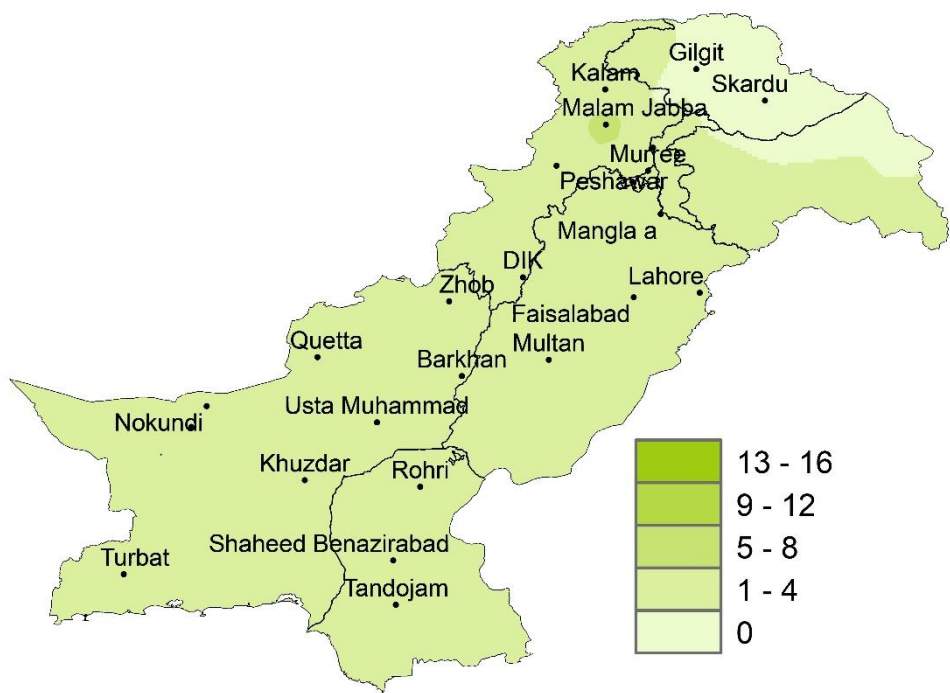
Mean Cloudiness (Oktas) at 0800PST during the previous week (12<sup>th</sup> – 18<sup>th</sup> April, 2021)



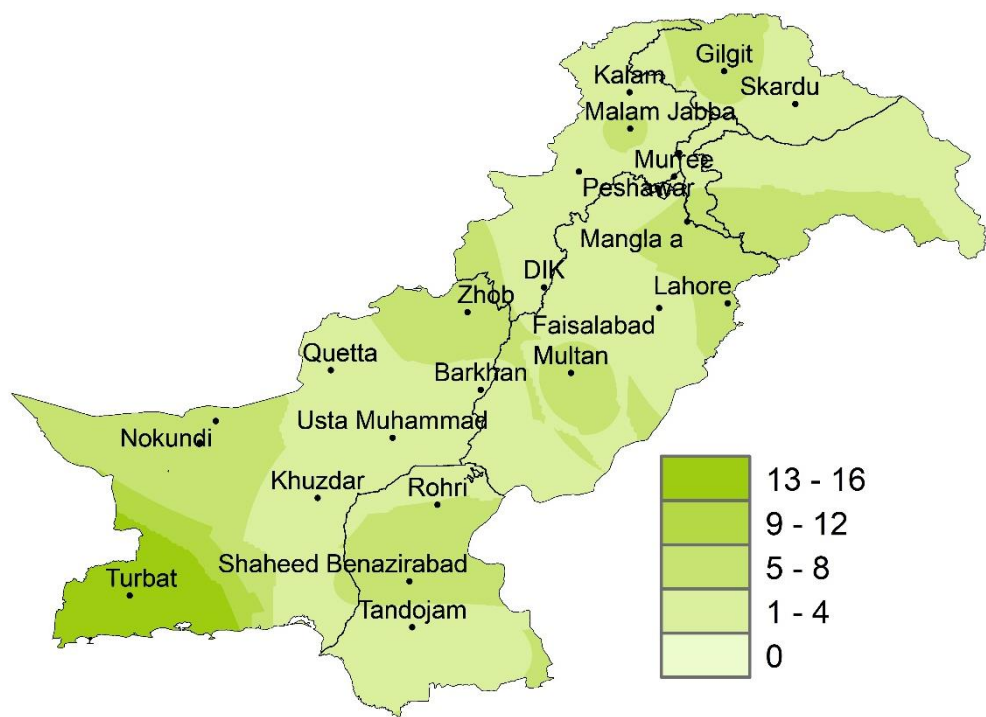
Mean Cloudiness (Oktas) at 1700PST during the previous week (12<sup>th</sup> – 18<sup>th</sup> April, 2021)



Mean Wind Speed (Knots) at 0800PST during the previous week (12<sup>th</sup> – 18<sup>th</sup> April, 2021)



Mean Wind Speed (Knots) at 1700PST during the previous week (12<sup>th</sup> – 18<sup>th</sup> April, 2021)





**Weekly Weather Advisory for Farmers****(19<sup>th</sup> – 25<sup>th</sup> April, 2021)**

A shallow westerly wave is likely to enter western parts of the country tonight and likely to grip upper/central parts on Tuesday.

**MONDAY****19-04-2021**

Hot and dry weather is expected in most parts of the country. However, partly cloudy weather with rain-thunderstorm is expected at isolated places in northeast Baluchistan and upper Sindh.

**TUESDAY****20-04-2021**

Partly cloudy weather with rain wind-thunderstorm is expected at isolated places in northeast Baluchistan, upper Sindh, Punjab, Khyber Pakhtunkhwa, Kashmir and Gilgit Baltistan.

**WEDNESDAY****21-04-2021**

Mainly dry weather is expected in most plain areas of the country. However, rain wind-thunderstorm is expected in Kashmir and Gilgit Baltistan.

**THURSDAY****22-04-2021**

Mainly hot and dry weather is expected in most plain areas of the country. However, rain wind-thunderstorm is expected in upper Khyber Pakhtunkhwa, Potohar region, Kashmir and Gilgit-Baltistan.

**FRIDAY****23-04-2021.**

Hot and dry weather is expected in most plain areas of the country. While, dry in northern areas of the country.

**SATURDAY****24-04-2021**

Hot and dry weather is expected in most plain areas of the country. While, dry in northern areas of the country.

**SUNDAY****25-04-2021**

Hot and dry weather is expected in most plain areas of the country. While, partly cloudy weather is expected in Kashmir and Gilgit Baltistan.

**ADVISORY FOR FARMERS**

During the last week, light to moderate rainfall reported from Punjab, Khyber Pakhtunkhwa, Baluchistan, Kashmir and Gilgit-Baltistan. Light rainfall reported from a few stations in Sindh. Keeping in view the expected weather conditions farmers are advised the following advisories.

- ❖ Farmers of central parts and upper half may schedule the harvesting of wheat crop in accordance with the prevailing weather conditions.
- ❖ Farmers of irrigated areas are advised to irrigate the crop according to its need.
- ❖ Pesticides may be applied to avoid any pest attack as per advised by the agriculture department.

**National Weather Data of Selected Cities from (12<sup>th</sup> – 18<sup>th</sup> April, 2021)**

Stations	Maximum /Day Time Temperature (°C)		Growin g Degree Days	Relative Humidity (%)	Rainfall (mm)	Cloudiness (Oktas) 0800 PST	Cloudines s (Oktas) 1700 PST	Wind Speed (Knots) 0800 PST	Wind Speed (Knots) 1700 PST
	Mean	Maximum							
Barkhan	29.6	32.5	127.5	33	8.0	0.9	2.9	0.3	2.3
Dalbandin	34.6	36.5	145.0	25	0.0	2.6	6.1	0.3	5.1
D.I. Khan	32.6	38.0	150.4	59	27.0	4.1	4.9	1.4	1.4
Faisalabad	34.4	38.0	155.8	51	0.0	1.4	1.9	1.3	2.3
Gawadar	33.4	34.5	157.5	73	0.0	1.4	0.6	0.3	15.7
Gilgit	21.6	26.0	76.3	56	5.6	6.7	7.1	0.0	5.4
Kalam	14.1	20.0	21.3	47	53.4	6.1	6.9	0.0	2.1
Khuzdar	31.7	33.5	134.5	25	0.0	0.0	6.1	0.0	2.6
Lahore	33.9	37.2	159.9	39	0.4	3.2	3.5	4.0	5.0
Malam Jabba	11.4	16.0	20.5	73	71.0	5.9	6.6	5.1	5.1
Mangla	30.9	36.5	138.9	49	2.2	5.4	5.1	2.3	7.7
Multan (PBO)	34.4	38.3	160.0	41	0.0	3.7	3.3	3.3	4.9
Murree	16.9	22.0	47.3	59	29.0	6.4	6.3	2.9	3.4
Muzaffarabad	26.3	31.5	102.4	71	30.0	6.4	6.1	0.0	0.0
Nokkundi	39.9	43.0	178.2	45	1.0	0.3	1.1	4.0	7.1
Nawabshah	35.4	37.5	161.3	16	0.5	2.0	2.9	1.1	5.4
Peshawar	29.6	33.5	129.2	60	16.2	4.7	6.0	0.9	2.6
Quetta	24.9	28.5	92.3	32	8.0	3.0	5.6	2.9	3.0
Rawalpindi	28.9	34.0	125.3	61	19.0	5.6	5.6	0.8	1.2
Rohri	39.4	42.5	184.8	38	0.0	1.7	1.7	3.1	4.0
Skardu	17.3	19.8	49.1	47	6.8	6.9	6.6	0.0	2.1
Tandojam	38.7	40.5	167.3	56	0.0	0.6	1.6	0.9	1.1
Turbat	39.6	40.5	182.0	35	2.2	0.3	2.6	0.0	15.1
Usta. M	39.9	41.0	177.3	39	0.0	0.1	2.5	1.1	1.4
Zhob	28.0	31.5	115.5	39	14.0	2.1	4.4	3.3	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 سبب باب (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)