

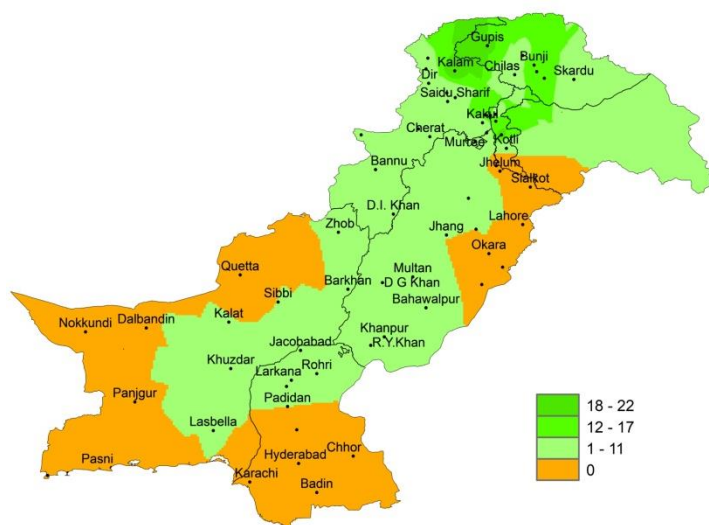
Weekly Weather and Crop Bulletin for Pakistan

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PAKISTAN METEOROLOGICAL
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**Rainfall Distribution (mm) during the Previous
Week (11th – 17th April, 2022)**



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Highlights of Past Weather (11th –17th April, 2022)

Above normal day time temperatures were observed in all over the country during the last week.

Rainfall reported as follows during the last week:

1. Light rainfall observed in Punjab, Khyber Pakhtunkhwa, Baluchistan, Gilgit-Baltistan, and Kashmir.

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 (11th –17th April, 2022)**Punjab**

Light rainfall reported from Punjab during the week. Weekly maximum and minimum temperatures recorded as 39.3°C & 21.38°C respectively. For the recent week on average 178.7 growing degree days were accumulated. Average relative humidity recorded as 31% and wind speed in the morning/evening recorded as 2.5/3.0 Knots. During the previous week the highest precipitation was recorded as 7.00 mm at Murree while the highest maximum temperature was recorded as 44.5°C at Bahawalnagar.

Baluchistan

Light rainfall reported from Baluchistan during the week. Weekly maximum and minimum temperatures recorded as 35.9°C & 19.5°C respectively. For the recent week on average 158.7 growing degree days were accumulated. Average relative humidity recorded as 35% and wind speed in the morning/evening recorded as 1.4/7.3 Knots. During the previous week the highest precipitation was recorded as 5.3 mm at Khuzdar while the highest maximum temperature was recorded as 46.5°C at Sibbi.

Khyber Pakhtunkhwa

Light rainfall reported from Khyber Pakhtunkhwa during the week. Weekly maximum and minimum temperatures recorded as 32.1°C & 15.7°C respectively. For the recent week on average 132.3 growing degree days were accumulated. Average relative humidity recorded as 50% and wind speed in the morning/evening recorded as 1.6/2.4 Knots. During the previous week the highest precipitation was recorded as 22.4 mm at Kalam while the highest maximum temperature was recorded as 42.5°C at D.I.Khan.

Sindh

Dry weather reported from Sindh during the week. Weekly maximum and minimum temperatures recorded as 41.5°C & 23.7°C respectively. For the

recent week, on average 192.0 growing degree days were accumulated. Average relative humidity recorded as 43% and wind speed in the morning/evening recorded as 4.0/4.3 Knots. During the previous week the highest maximum temperature was recorded as 46.5°C at Dadu.

Gilgit-Baltistan and Azad Jammu & Kashmir

Light rainfall reported from Gilgit-Baltistan & Kashmir during the week. Weekly maximum and minimum temperatures recorded as 27.3 °C & 12.1°C respectively. For the recent week on average 102.8 growing degree days were accumulated. Average relative humidity recorded as 43% and wind speed in the morning/evening recorded as 0.4/3.1 Knots. During the previous week the highest precipitation was recorded as 18.8 mm at Rawalakot while the highest maximum temperature was recorded as 38.5°C at Kotli.

Past Weather for Major Agricultural Plains**(11th–17th April, 2022)****Rawalpindi (Potohar region)**

Dry weather reported from Rawalpindi during the week; however, cloudiness in the morning/evening recorded as 2.0/4.4 Oktas while, average relative humidity observed as 46%. Mean day time temperature recorded as 36.8°C & for the recent week 158.2 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.3/2.4 Knots.

Faisalabad (Central Punjab)

Dry weather reported from Faisalabad during the week; however, cloudiness in the morning/evening recorded as 2.4/0.3 Oktas while, average relative humidity observed as 31%. Mean day time temperature recorded as 40.6°C & for the recent week 185.0 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.8/1.2 Knots.

Tandojam (Lower Sindh)

Dry weather reported from Tandojam during the week; however, cloudiness in the morning/evening recorded as 0.0/0.4 Oktas while, average relative humidity observed as 53%. Mean day time temperature recorded as 40.8°C & for the recent week 187.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 4.3/2.4 Knots.

Usta Muhammad (Eastern Baluchistan)

Dry weather reported from Usta Muhammad during the week; however, cloudiness in the morning/evening recorded as 0.0/0.4 Oktas while, average relative humidity observed as 43%. Mean day time temperature recorded as 43.4°C & for the recent week 196.0 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.4/2.8 Knots.

Quetta (Northern Baluchistan)

Dry weather reported from Quetta during the week; however, cloudiness in the morning/evening recorded as 1.1/2.7 Oktas while, average relative humidity observed as 17%. Mean day time temperature recorded as 28.9°C. Wind speed recorded in the morning/evening as 2.9/2.6 Knots.

Past Weather for Sub-Regional Agricultural**Plains (11th–17th April, 2022)****Multan**

Dry weather reported from Multan during the week; however, cloudiness in the morning/evening recorded as 2.1/1.7 Oktas while, average relative humidity observed as 26%. Mean day time temperature recorded as 40.3°C & for the recent week 189.4 growing degree days accumulated. Wind speed recorded in the morning/evening as 4.6/6.6 Knots.

Lahore

Dry weather reported from Lahore during the week; however, cloudiness in the morning/evening recorded as 2.0/0.9 Oktas while, average relative humidity observed as 29%. Mean day time temperature recorded as 39.1°C & for the recent week 185.2 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.6/0.3 Knots.

Zhob

Dry weather reported from Zhob during the week; however, cloudiness in the morning/evening recorded as 1.0/1.9 Oktas while, average relative humidity observed as 15%. Mean day time temperature recorded as 34.6°C & for the recent week 152.8 growing degree days accumulated. Wind speed recorded in the morning/evening as 3.6/7.6 Knots.

Murree

Rainfall reported as 7.0 mm from Murree during the week; however, cloudiness in the morning/evening recorded as 2.9/3.7 Oktas while, average relative humidity observed as 38%. Mean day time temperature recorded as 24.9°C. Wind speed recorded in the morning/evening as 2.3/2.0 Knots.

D.I. Khan

Dry weather reported from Usta Muhammad during the week; however, cloudiness in the morning/evening recorded as from D.I. Khan during the week; however, cloudiness in the morning/evening recorded as 0.7/1.6 Oktas while, average relative humidity observed as 41%. Mean day time temperature recorded as 40.3°C & for the recent week 184.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 2.6/2.6 Knots.

Peshawar

Rainfall reported as 2.0 mm from Peshawar during the week; however, cloudiness in the morning/evening recorded as 2.7/4.3 Oktas while, average relative humidity observed as 49%. Mean day time temperature recorded as 37.2°C & for the recent week 163.1 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/2.9 Knots.

Kalam

Rainfall reported as 22.4 mm from Kalam during the week; however, cloudiness in the morning/evening recorded as 1.7/5.1 Oktas while, average relative humidity observed as 35%. Mean day time temperature recorded as 22.9°C. Calm wind observed in the morning/evening.

Gilgit

Rainfall reported as 8.7 mm from Gilgit during the week. However, cloudiness in the morning/evening recorded as 4.6/5.9 Oktas while, average relative humidity observed as 48%. Mean day time temperature recorded as 28.1°C. Wind speed recorded in the morning/evening as 0.0/3.1 Knots.

Skardu

Rainfall reported as 6.02 mm from Skardu during the week; however, cloudiness in the morning/evening recorded as 3.9/3.1 Oktas while, average relative humidity observed as 35%. Mean day time temperature recorded as 22.6°C. Calm wind observed in the morning/evening.

**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.

Wheat: Harvested.

Lower Sindh (Tandojam)

Presently no crop is sown in the fields of RAMC Tandojam.

Northern Baluchistan (Quetta)

There is presently wheat crop grown in the fields of RAMC Quetta.

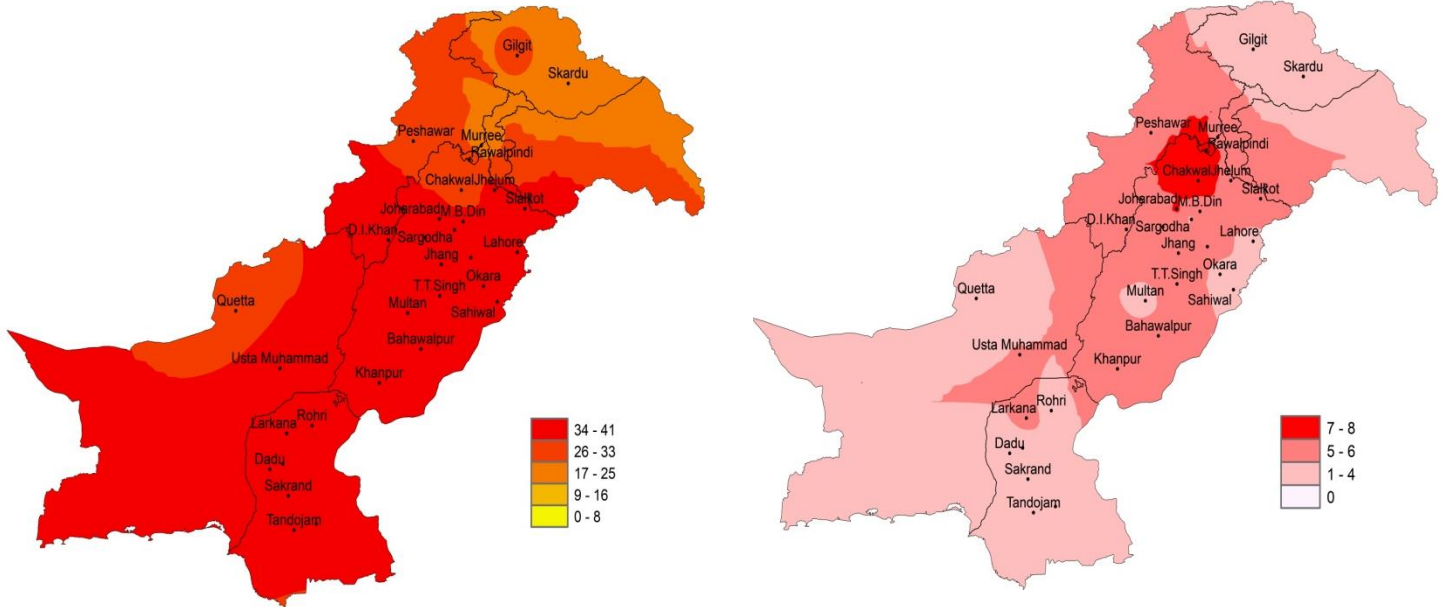
Wheat; Good, *Shooting Stage*.

Eastern Baluchistan (Usta Muhammad)

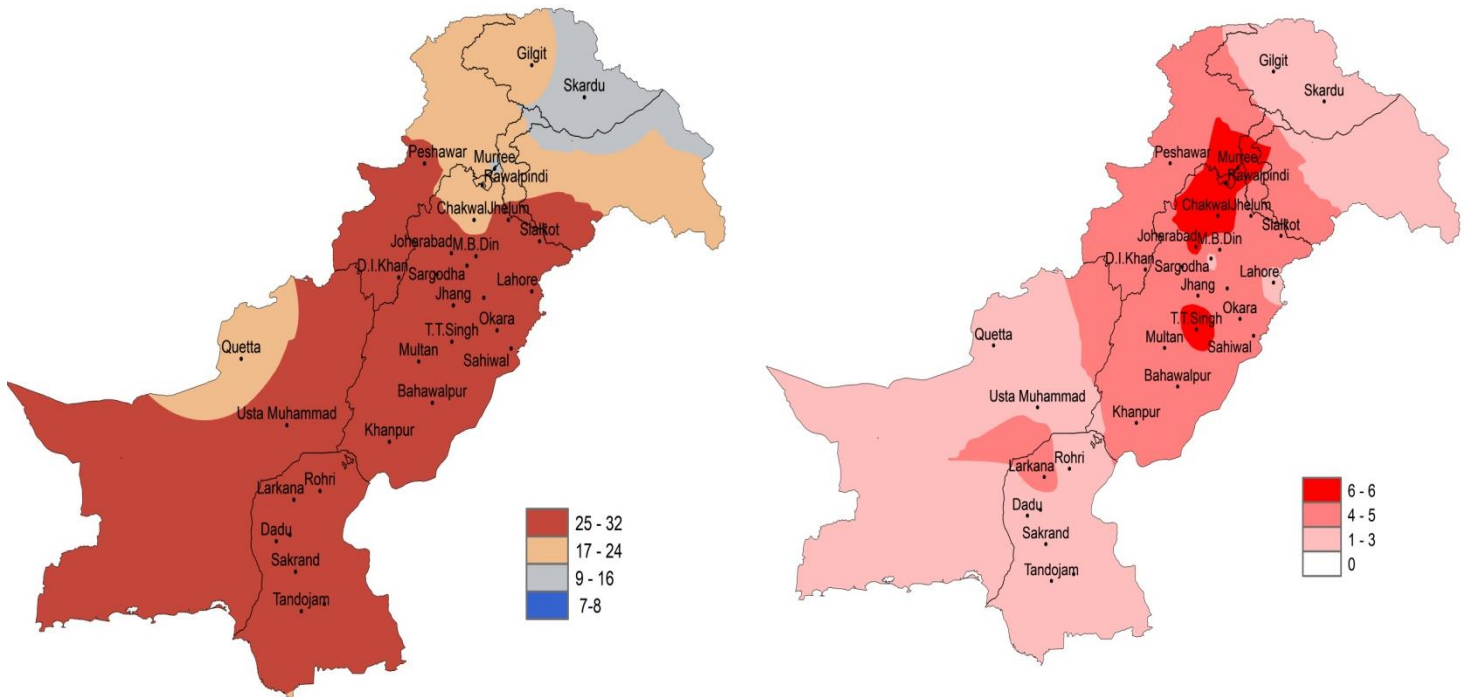
There is presently no crop grown in the fields of RAMC Usta Muhammad.

Wheat; Good, *Wax Maturity Stage*

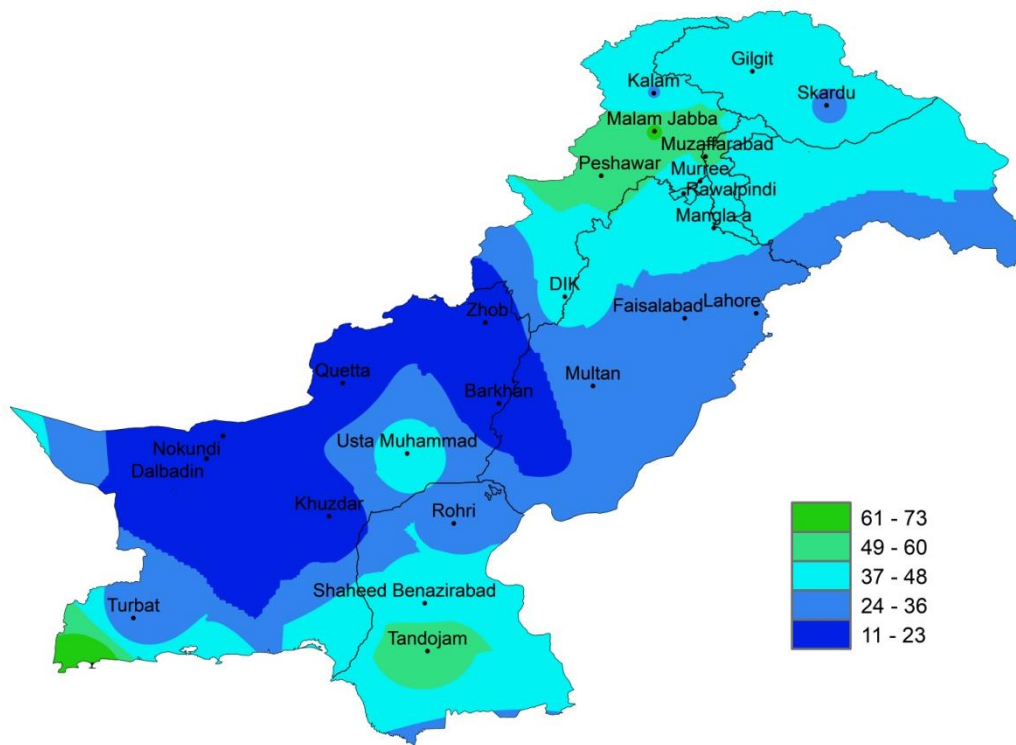
Normal & Departure of Maximum temperature (°C) for the previous week (11th – 17th April, 2022)



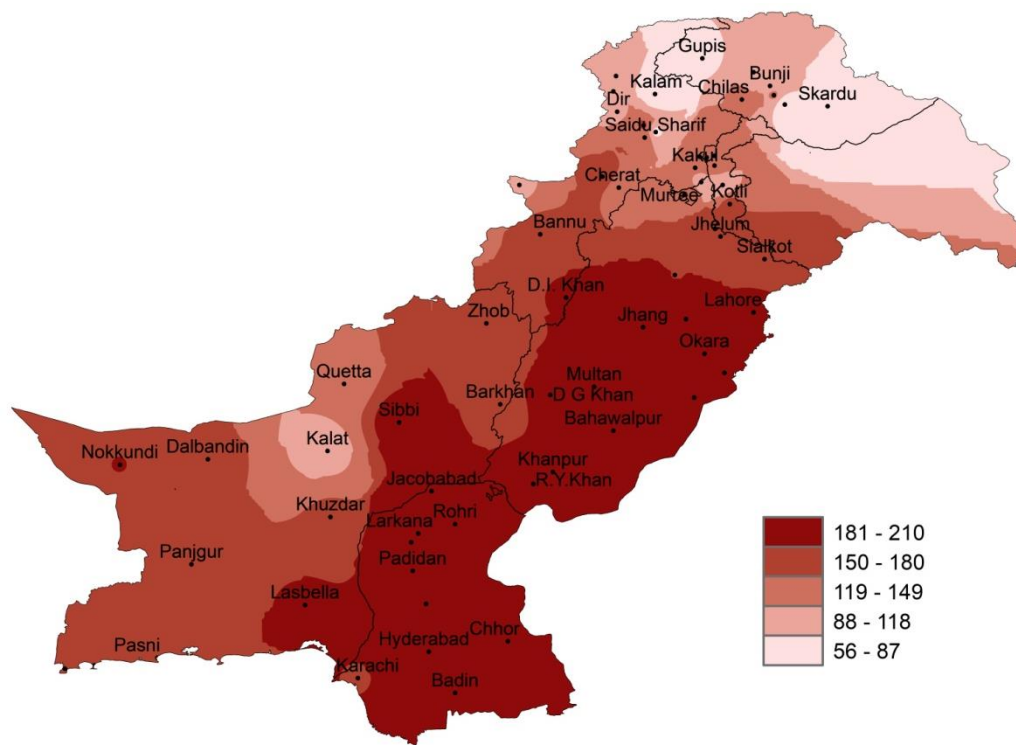
Normal & Departure of Mean temperature (°C) for the previous week (11th – 17th April, 2022)



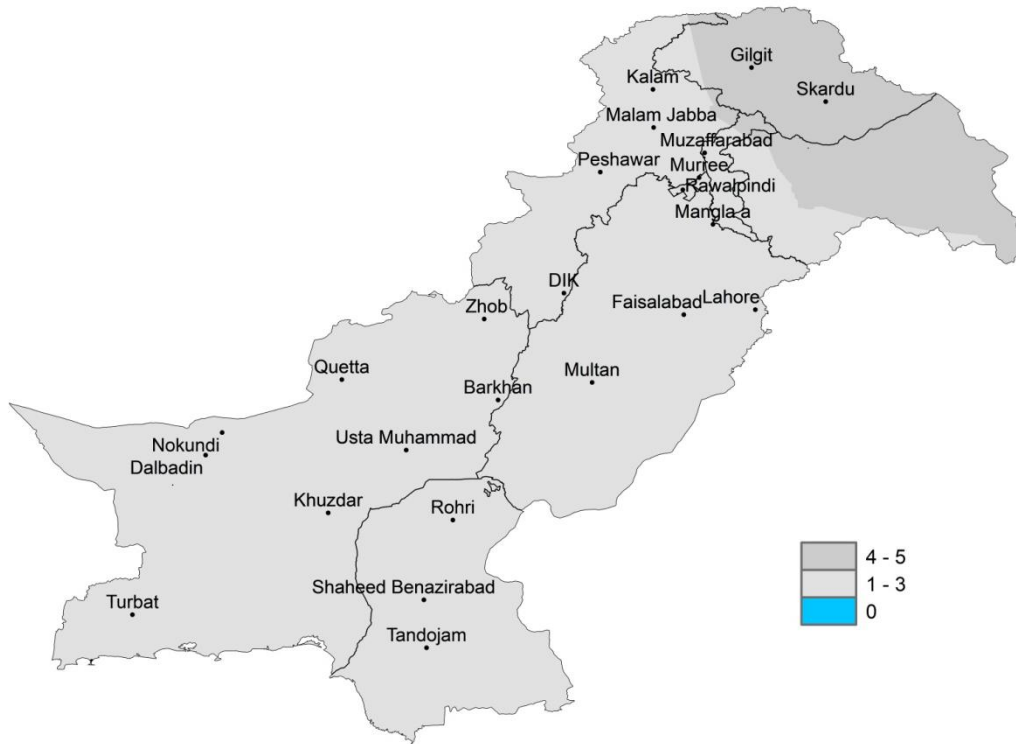
Mean Relative Humidity (%) during the Previous week (11th – 17th April, 2022)



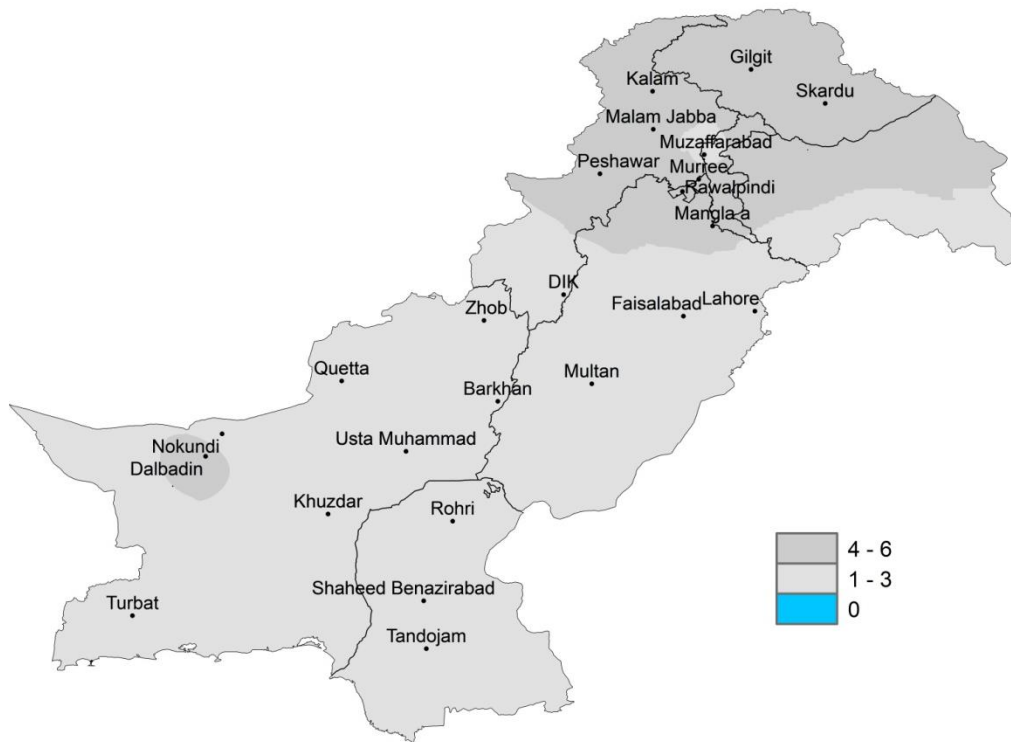
Total Growing Degree Days accumulated during the previous week (11th – 17th April, 2022)



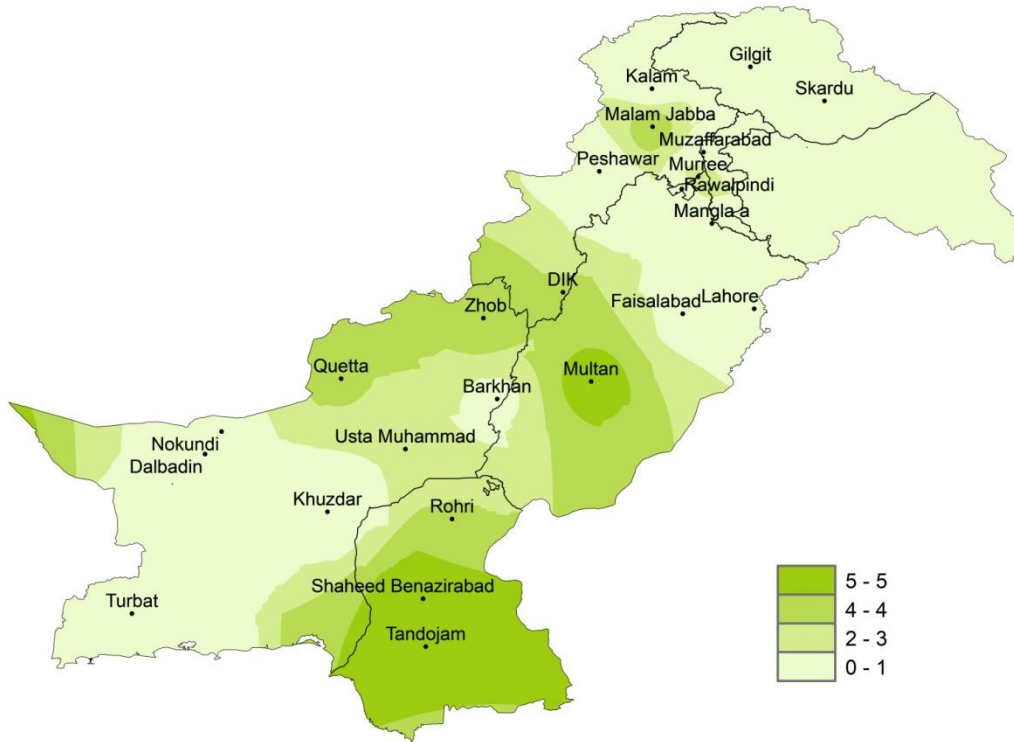
Mean Cloudiness (Oktas) at 0800PST during the previous week (11th – 17th April, 2022)



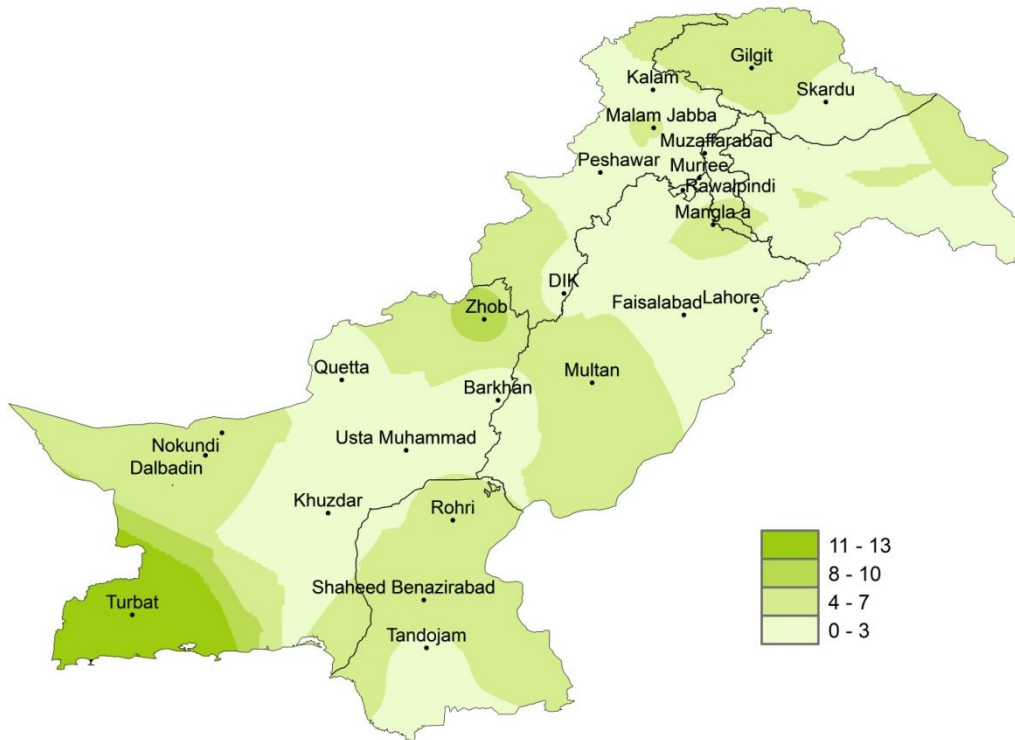
Mean Cloudiness (Oktas) at 1700PST during the previous week (11th – 17th April, 2022)



Mean Wind Speed (Knots) at 0800PST during the previous week (11th – 17th April, 2022)



Mean Wind Speed (Knots) at 1700PST during the previous week (11th – 17th April, 2022)



Weekly Weather Advisory for Farmers
(18th – 24th April, 2022)

A westerly wave is affecting western parts of the country and likely to persist in upper parts till Wednesday.

MONDAY
18-04-2022

Partly cloudy weather is expected in most Western parts of the country. However, rain-wind/thunderstorm is expected in central Balochistan and western districts of Khyber Pakhtunkhwa. Dust raising/gusty winds are likely in central/southern Punjab and upper Sindh.

TUESDAY
19-04-2022

Partly cloudy weather is expected in most Western parts of the country. However, rain-wind/thunderstorm is expected in north Balochistan, Khyber Pakhtunkhwa, Kashmir and Gilgit-Baltistan. Dust raising/gusty winds are likely in central/southern Punjab and upper Sindh.

WEDNESDAY
20-04-2022

Mainly hot and dry weather is expected in most areas of the country. However, rain-wind/thunderstorm is likely in upper Khyber Pakhtunkhwa, Gilgit Baltistan, Kashmir and Potohar region. Rain may cause land sliding in the vulnerable areas of Gilgit-Baltistan.

THURSDAY
21-04-2022

Mainly hot and dry weather is expected in most areas of the country. However, rain-wind/thunderstorm is likely in upper Khyber Pakhtunkhwa, Gilgit Baltistan, Kashmir and adjoining hilly areas.

FRIDAY
22-04-2022

Mainly hot and dry weather is expected in most areas of the country. However, rain-wind/thunderstorm is likely in upper Khyber Pakhtunkhwa, Gilgit Baltistan, Kashmir and adjoining hilly areas.

SATURDAY
23-04-2022

Mainly hot and dry weather is expected in most areas of the country. However, rain-wind/thunderstorm is likely in upper Khyber Pakhtunkhwa, Gilgit Baltistan, Kashmir and adjoining hilly areas.

SUNDAY
24-04-2022

Mainly hot and dry weather is expected in most areas of the country. However, rain-wind/thunderstorm is likely in upper Khyber Pakhtunkhwa, Gilgit Baltistan, Kashmir and adjoining hilly areas.

ADVISORY FOR FARMERS

During the last week, light rainfall observed in almost all over country. Keeping in view the expected weather conditions following advisories are suggested for farming community.

1. Complete the wheat harvest and threshing as soon as possible.
2. Prepare the soil for timely sowing of Cotton Crop.

National Weather Data of Selected Cities from (11th –17th April, 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	35.0	37.0	160.0	16	0.0	0.6	2.3	0.9	1.1
Dalbandin	38.3	39.0	161.5	21	0.0	0.7	3.4	0.3	4.0
D.I. Khan	40.3	42.5	184.3	41	0.0	0.7	1.6	2.6	2.6
Faisalabad	40.6	43.2	185.0	31	0.0	2.4	0.3	0.8	1.2
Gawadar	35.0	36.0	160.5	73	0.0	0.7	0.4	0.6	13.1
Gilgit	28.1	32.5	102.6	48	8.7	4.6	5.9	0.9	4.9
Kalam	22.9	27.5	59.0	35	22.4	1.7	5.1	0.0	3.1
Khuzdar	33.6	35.0	155.3	17	5.3	0.4	1.4	0.0	1.1
Lahore	39.1	41.7	185.2	29	0.0	2.0	0.9	0.6	0.3
Malam Jabba	19.5	24.0	72.3	62	10.0	2.7	3.1	3.7	3.4
Mangla	37.5	38.5	164.9	38.9	0.0	3.0	3.3	0.9	4.6
Multan (PBO)	40.3	42.1	189.4	26	0.0	2.1	1.7	4.6	6.6
Murree	24.9	27.5	103.6	38	7.0	2.9	3.7	2.3	2.0
Muzaffarabad	32.4	37.1	136.2	51	11.9	2.6	2.6	0.0	0.0
Nokkundi	44.3	45.6	200.7	46	0.0	0.4	0.9	5.1	6.3
Nawabshah	38.8	40.0	179.8	11	0.0	1.4	2.4	1.1	3.7
Peshawar	37.2	40.2	163.1	49	2.0	2.7	4.3	0.0	2.9
Quetta	28.9	31.0	110.5	17	0.0	1.1	2.7	2.9	2.6
Rawalpindi	36.8	39.0	158.2	46	0.0	2.0	4.4	0.3	2.4
Rohri	42.6	43.8	202.4	31	0.0	0.9	1.0	2.6	4.3
Skardu	22.6	25.4	69.2	35	6.2	3.9	3.1	0.0	3.1
Tandojam	40.8	43.0	187.3	53	0.0	0.0	0.4	4.3	2.4
Turbat	43.4	44.0	197.3	26	0.0	0.9	1.0	1.1	12.0
Usta. M	43.4	45.5	196.0	43	0.0	0.0	0.4	1.4	2.8
Zhob	34.6	36.5	152.8	15	0.0	1.0	1.9	3.6	7.6

*** 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)