

Weekly Weather and Crop Bulletin for Pakistan

NATIONAL AGROMET CENTRE PAKISTAN
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Rainfall Distribution (mm) during the Previous Week (28th March – 3rd April, 2022)



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Highlights of Past Weather (28th March – 3rd April, 2022)

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 rainfall reported from upper Khyber Pakhtunkhwa, Kashmir and Gilgit-Baltistan.
2. Dry weather prevailed over Sindh, Baluchistan, Lower Khyber Pakhtunkhwa and Punjab.

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Past Weather of Provinces (28th March – 3rd April, 2022)**Punjab**

Dry weather reported from Punjab during the week. Weekly maximum and minimum temperatures recorded as 37.1°C & 18.5°C respectively. For the recent week on average 159.5 growing degree days were accumulated. Average relative humidity recorded as 33% and wind speed in the morning/evening recorded as 1.6/3.0 Knots. During the previous week the highest maximum temperature was recorded as 43.5°C at R.Y.Khan.

Baluchistan

Dry weather reported from Baluchistan during the week. Weekly maximum and minimum temperatures recorded as 33.6°C & 16.4°C respectively. For the recent week on average 139.1 growing degree days were accumulated. Average relative humidity recorded as 29% and wind speed in the morning/evening recorded as 2.1/6.1 Knots. During the previous week the highest maximum temperature was recorded as 43.5°C at Sibbi.

Khyber Pakhtunkhwa

Light rainfall reported from upper Khyber Pakhtunkhwa during the week. Weekly maximum and minimum temperatures recorded as 30.3°C & 13.5°C respectively. For the recent week on average 118.3 growing degree days were accumulated. Average relative humidity recorded as 45% and wind speed in the morning/evening recorded as 1.9/2.2 Knots. During the previous week the highest precipitation was observed as 4.0 mm at Balakot while the highest maximum temperature was recorded as 40.5°C at D.I.Khan.

Sindh

Dry weather reported from Sindh during the week. Weekly maximum and minimum temperatures recorded as 41.5°C & 20.6°C respectively. For the recent week, on average 182.2 growing degree days were accumulated. Average relative humidity recorded as 39% and wind speed in the morning/evening recorded as 2.4/4.2 Knots.

During the previous week the highest maximum temperature was recorded as 45.5°C at Shaheed Benazirabad.

Gilgit-Baltistan and Azad Jammu & Kashmir

Light rainfall reported from a few stations in Gilgit-Baltistan and Azad Jammu & Kashmir during the week. Weekly maximum and minimum temperatures recorded as 26.5°C & 11.1°C respectively. For the recent week on average 96.8 growing degree days were accumulated. Average relative humidity recorded as 49% and wind speed in the morning/evening recorded as 0.8/0.6 Knots. During the previous week the highest precipitation was observed as 1.0 mm at Muzaffarabad and Astore while the highest maximum temperature was recorded as 35.2°C at Garhi Dupatta.

Past Weather for Major Agricultural Plains**(28th March – 3rd April, 2022)****Rawalpindi (Potohar region)**

Dry weather reported from Rawalpindi during the week; however, clear sky observed in the morning/evening while, average relative humidity observed as 45%. Mean day time temperature recorded as 34.8°C & for the recent week 137.9 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.3/1.1 Knots.

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 40%. Mean day time temperature recorded as 37.8°C & for the recent week 164.6 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.1/1.5 Knots.

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 49%. Mean day time temperature recorded as 40.6°C & for the recent week 167.9 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.9/2.2 Knots.

Usta Muhammad (Eastern Baluchistan)

Dry weather reported from Usta Muhammad during the week; however, clear sky observed in the morning/evening while, average relative humidity observed as 40%. Mean day time temperature recorded as 41.3°C & for the recent week 177.5 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.2/1.2 Knots.

Quetta (Northern Baluchistan)

Dry weather reported from Quetta during the week; however, clear sky observed in the morning/evening while, average relative humidity observed as 15%. Mean day time temperature recorded as 25.3°C & for the recent week 82.5 growing degree days accumulated. Wind speed recorded in the morning/evening as 2.0/3.6 Knots.

Past Weather for Sub-Regional Agricultural**Plains (28th March – 3rd April, 2022)****Multan**

Dry weather reported from Multan during the week; however, clear sky observed in the morning/evening recorded while, average relative humidity observed as 31%. Mean day time temperature recorded as 39.1°C & for the recent week 170.6 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.4/5.1 Knots.

Lahore

Dry weather reported from Lahore during the week; however, clear sky observed in the morning/evening while, average relative humidity observed as 37%. Mean day time temperature recorded as 36.7°C & for the recent week 166.2 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.3/2.3 Knots.

Zhob

Dry weather reported from Zhob during the week; however, cloudiness in the morning/evening recorded as 1.4/1.0 Oktas while, average relative humidity observed as 22%. Mean day time temperature recorded as 31.6°C & for the recent week 133.8 growing degree days accumulated. cloudiness in the morning/evening recorded as 4.7/6.4 Oktas.

Murree

Dry weather reported from Murree during the week; however, cloudiness in the morning/evening recorded as 0.1/0.4 Oktas while, average relative humidity observed as 31%. Mean day time temperature recorded as 23.6°C & for the recent week 95.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 3.1/1.4 Knots.

D.I. Khan

Dry weather reported from D.I. Khan during the week; however, clear sky observed in the morning/evening while, average relative humidity observed as 38%. Mean day time temperature recorded as 38.7°C & for the recent week 171.8 growing degree days accumulated. Wind speed recorded in the morning/evening as 2.9/2.9 Knots.

Peshawar

Dry weather reported from Peshawar during the week; however, cloudiness in the morning/evening recorded as 0.3/1.4 Oktas while, average relative humidity observed as 47%. Mean day time temperature recorded as 35.8°C & for the recent week 145.2 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/0.6 Knots.

Kalam

Rainfall reported as 0.9 mm from Kalam during the week; however, cloudiness in the morning/evening recorded as 1.6/4.4 Oktas while, average relative humidity observed as 28%. Mean day time temperature recorded as 20.9°C & for the recent week 48.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/7.1 Knots.

Gilgit

Dry weather reported from Gilgit during the week. However, however, cloudiness in the morning/evening recorded as 3.0/5.6 Oktas while, average relative humidity observed as 33%. Mean day time temperature recorded as 27.4°C & for the recent week 94.8 growing degree days accumulated. Wind speed recorded in the morning/evening as 3.4/7.6 Knots.

Skardu

Dry weather reported from Skardu during the week; however, cloudiness in the morning/evening recorded as 3.4/1.1 Oktas while, average relative humidity observed as 28%. Mean day time temperature recorded as 20.9°C & for the recent week 64.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.1/7.1 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: Very Good, Wax Maturity Stage.

Lower Sindh (Tandojam)

Field is being prepared for the next crop at RAMC Tandojam.

Wheat (TD-I): Good, Harvested.

Northern Baluchistan (Quetta)

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

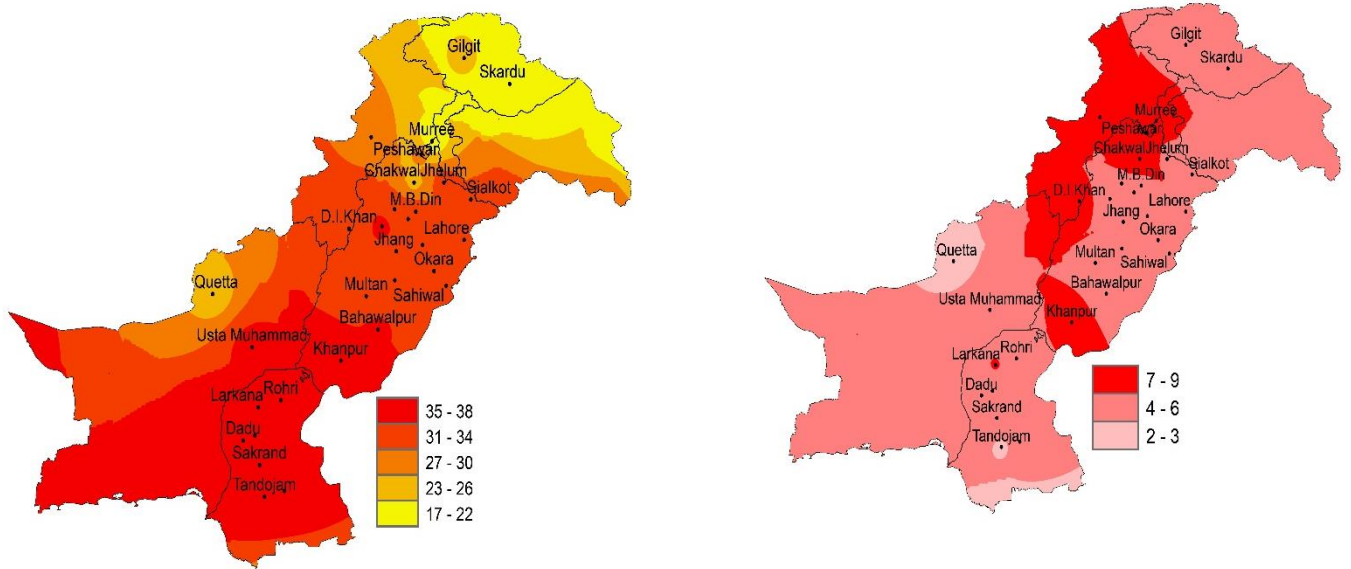
Wheat: Good, Shooting Stage.

Eastern Baluchistan (Usta Muhammad)

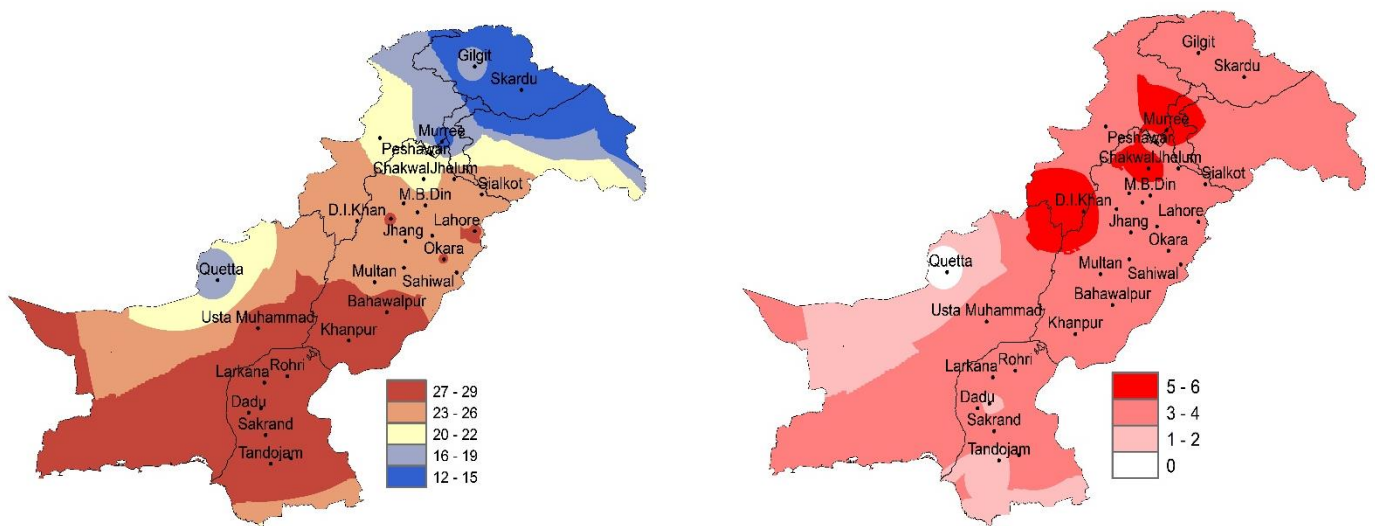
Presently wheat crop is standing in the fields of RAMC Usta Muhammad.

Wheat: Good, Wax Maturity Stage.

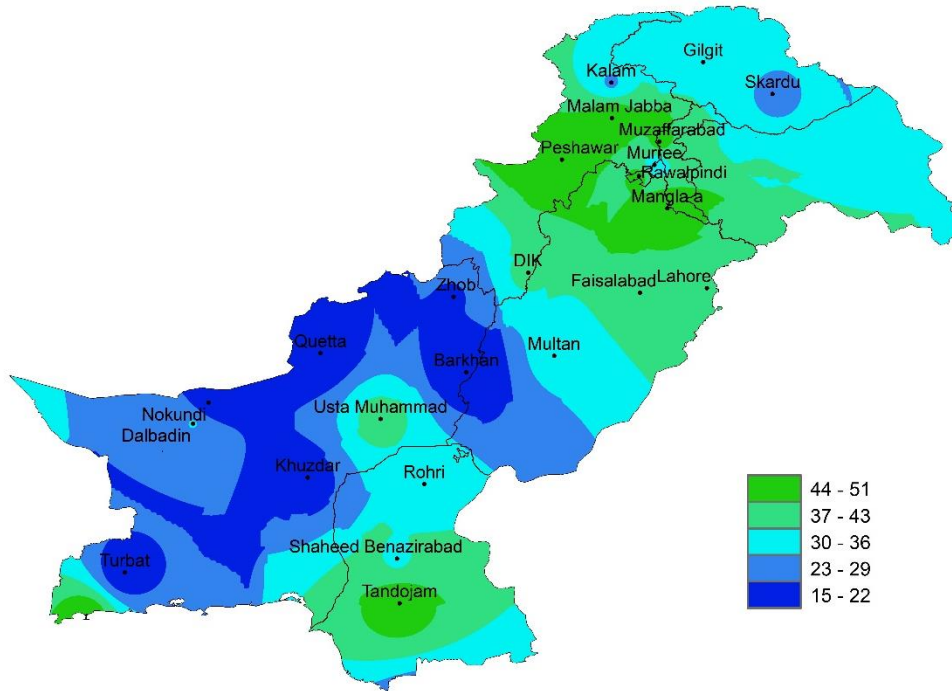
Normal & Departure of Maximum temperature (°C) for the previous week (28th March – 3rd April, 2022)



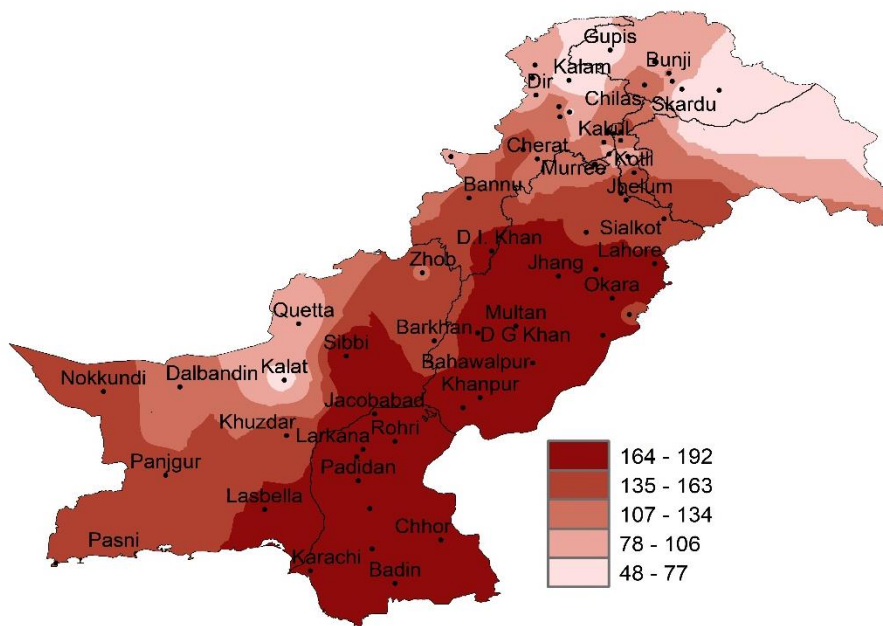
Normal & Departure of Mean temperature (°C) for the previous week (28th March – 3rd April, 2022)



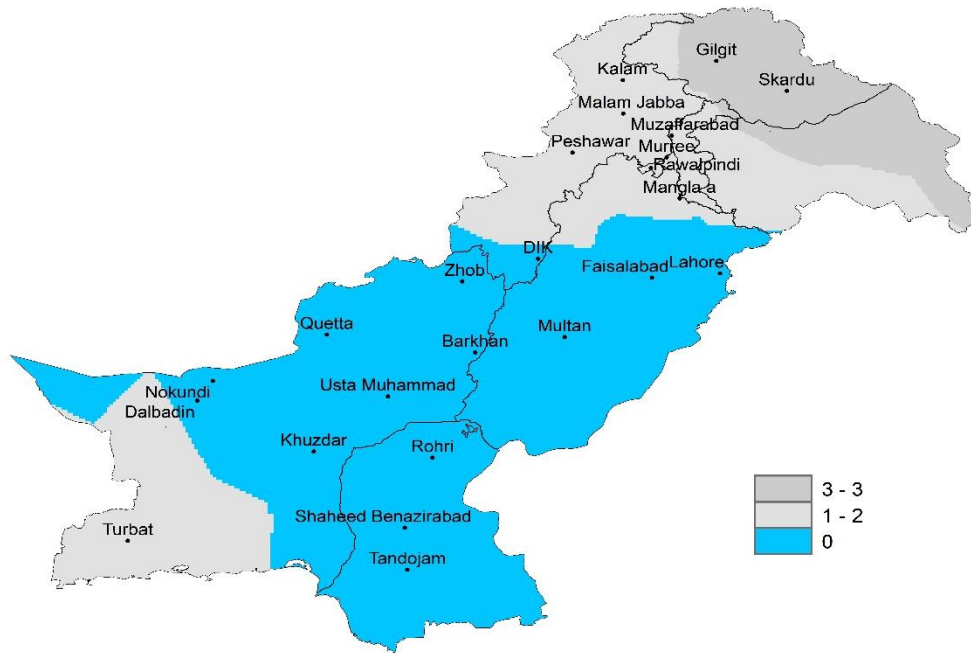
Mean Relative Humidity (%) during the previous week (28th March – 3rd April, 2022)



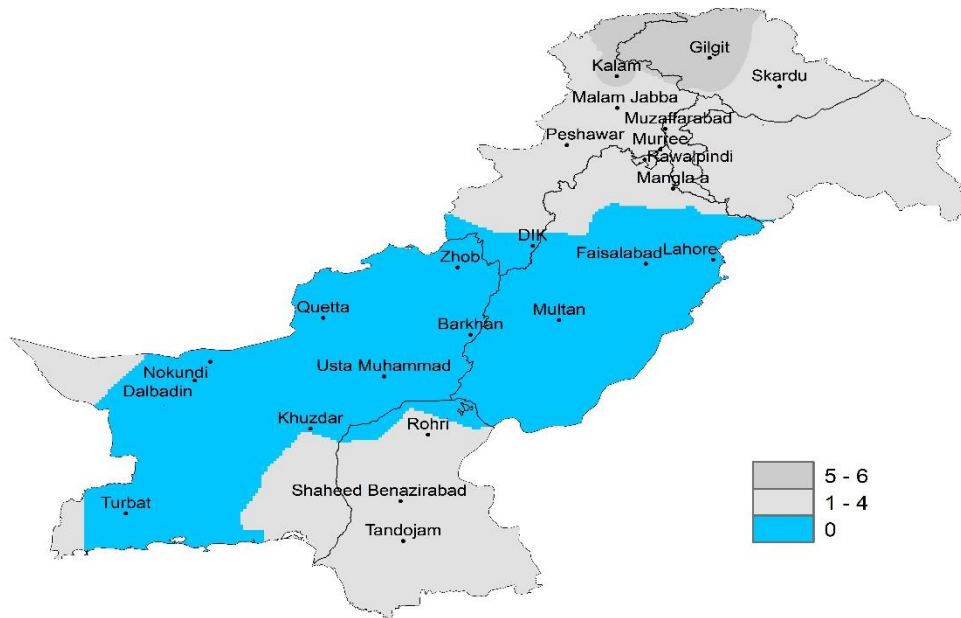
Total Growing Degree Days accumulated during the previous week (28th March – 3rd April, 2022)



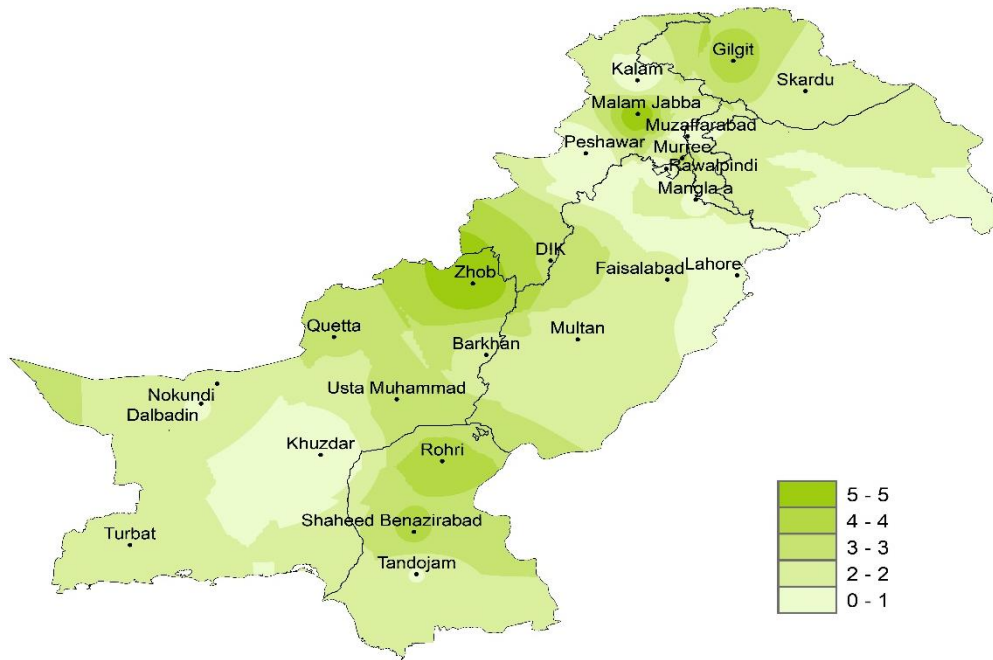
Mean Cloudiness (Oktas) at 0800PST during the previous week (28th March – 3rd April, 2022)



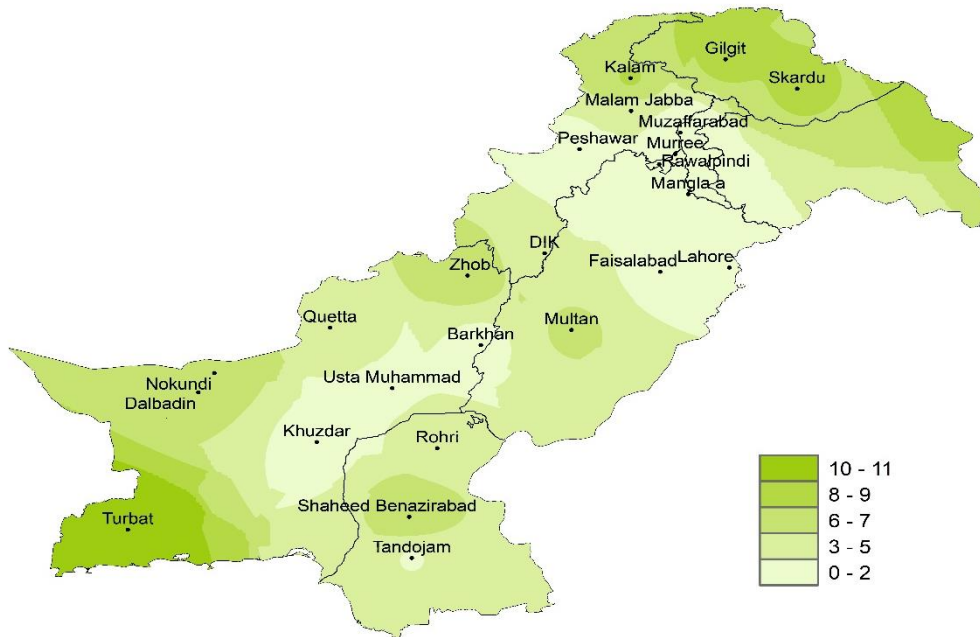
Mean Cloudiness (Oktas) at 1700PST during the previous week (28th March – 3rd April, 2022)



Mean Wind Speed (Knots) at 0800PST during the previous week (28th March – 3rd April, 2022)



Mean Wind Speed (Knots) at 1700PST during the previous week 28th March – 3rd April, 2022)



Weekly Weather Advisory for Farmers**(5th – 11th April, 2022)**

Continental air is prevailing over most parts of the country.

TUESDAY**05-04-2022**

Mainly hot and dry weather is expected in most parts of the country, while very hot in upper Sindh and south Punjab.

WEDNESDAY**06-04-2022**

Mainly hot and dry weather is expected in most parts of the country, while very hot in upper Sindh and south Punjab.

THURSDAY**07-04-2022**

Mainly hot and dry weather is expected in most parts of the country, while very hot in central and southern parts.

FRIDAY**08-04-2022**

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

SATURDAY**09-04-2022**

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

SUNDAY**10-04-2022**

Mainly hot and dry weather is expected in most plain areas of the country.

MONDAY**11-04-2022**

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

ADVISORY FOR FARMERS

During the last week, light rainfall reported from upper Khyber Pakhtunkhwa, Kashmir and Gilgit-Baltistan. Dry weather prevailed over Sindh, Baluchistan, Lower Khyber Pakhtunkhwa and Punjab. Keeping in view the expected weather conditions farmers are advised the following advisories.

- ❖ Farmers of central parts and upper half may be ready to harvest the Wheat crop in the coming weeks.
- ❖ Farmers 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 (28th March – 3rd 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	33.4	35.0	149.0	15	0.0	0.0	0.0	1.4	1.4
Dalbandin	32.8	35.0	130.0	29	0.0	0.0	0.0	0.9	4.9
D.I. Khan	38.7	40.5	171.8	38	0.0	0.0	0.0	2.9	2.9
Faisalabad	37.8	38.5	164.6	40	0.0	0.0	0.0	1.1	1.5
Gawadar	36.6	39.5	161.0	48	0.0	0.3	0.0	1.7	11.1
Gilgit	27.4	29.5	94.8	33	0.0	3.0	5.6	3.4	7.6
Kalam	20.9	24.0	48.3	28	0.9	1.6	4.4	0.0	7.1
Khuzdar	32.9	34.0	151.0	19	0.0	0.0	0.0	0.0	0.9
Lahore	36.7	37.2	166.2	37	0.0	0.0	0.0	0.3	2.3
Malam Jabba	19.1	20.0	67.3	51	0.0	0.3	1.1	4.9	4.0
Mangla	35.7	36.7	147.6	49	0.0	0.0	0.0	0.9	0.6
Multan (PBO)	39.1	40.2	170.6	31	0.0	0.0	0.0	1.4	5.1
Murree	23.6	24.5	95.3	31	0.0	0.1	0.4	3.1	1.4
Muzaffarabad	32.3	34.2	128.8	46	1.0	1.4	1.0	0.0	0.3
Nokkundi	43.1	45.5	182.0	35	0.0	0.0	0.1	3.1	6.6
Nawabshah	33.5	36.0	137.8	17	0.0	0.0	0.0	1.7	6.0
Peshawar	35.8	38.5	145.2	47	0.0	0.3	1.4	0.0	0.6
Quetta	25.3	27.4	82.5	15	0.0	0.0	0.0	2.0	3.6
Rawalpindi	34.8	35.5	137.9	45	0.0	0.0	0.0	0.3	1.1
Rohri	41.4	43.0	187.1	32	0.0	0.0	0.0	3.1	3.7
Skardu	20.9	23.4	64.3	28	0.0	3.4	1.1	1.1	7.1
Tandojam	40.6	43.0	167.9	49	0.0	0.0	0.0	0.9	2.2
Turbat	40.5	43.0	176.8	16	0.0	0.4	0.0	1.6	10.1
Usta. M	41.3	42.5	177.5	40	0.0	0.0	0.0	2.2	2.2
Zhob	31.6	32.5	133.8	22	0.0	0.0	0.0	4.7	6.4

*** 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 2012-2014)