

Weekly Weather and Crop Bulletin for Pakistan

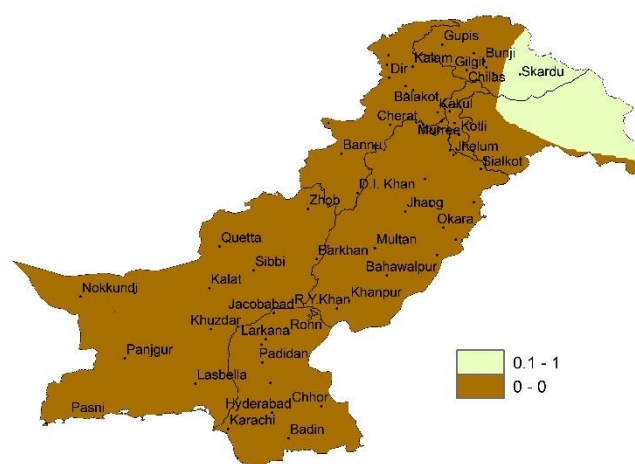
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Rainfall Distribution (mm) during the Previous Week (8th – 14th February, 2021)



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Highlights of Past Weather (8th - 14th February, 2021)

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

Rainfall reported as follows during the last week:

1. Dry weather reported from Punjab, Khyber Pakhtunkhwa Sindh, Baluchistan, Kashmir and Gilgit-Baltistan.

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

Editor: Ruqiya Mehmood (Assistant Meteorologist)

Past Weather of Provinces (8th - 14th February, 2021)**Punjab**

Dry weather reported from Punjab during the week. Weekly maximum and minimum temperatures recorded as 24.7°C & 8.8°C respectively. For the recent week on average 82.2 growing degree days were accumulated. Average relative humidity recorded as 63% and wind speed in the morning/evening recorded as 0.5/1.4 Knots. During the previous week the lowest minimum temperature was recorded as 2.0°C at Murree.

Baluchistan

Dry weather reported from Baluchistan during the week. Weekly maximum and minimum temperatures recorded as 26.2°C & 7.2°C respectively. For the recent week on average 81.9 growing degree days were accumulated. Average relative humidity recorded as 39% and wind speed in the morning/evening recorded as 1.2/4.6 Knots. During the previous week the lowest minimum temperature was recorded as -2.0°C at Kalat.

Khyber Pakhtunkhwa

Dry weather reported from Khyber Pakhtunkhwa during the week. Weekly maximum and minimum temperatures recorded as 21.5°C & 4.7°C respectively. For the recent week on average 56.5 growing degree days were accumulated. Average relative humidity recorded as 62% and wind speed in the morning/evening recorded as 1.1/1.6 Knots. During the previous week the lowest minimum temperature was recorded as -4.0°C at Parachinar.

Sindh

Dry weather reported from Sindh during the week. Weekly maximum and minimum temperatures recorded as 30.4°C & 11.2°C respectively. For the recent week, on average 110.6 growing degree days were accumulated. Average relative humidity recorded as 59% and wind speed in the morning/evening recorded as 1.5/2.7 Knots. During the previous week the lowest minimum temperature was recorded as 5.5°C at Mithi.

Gilgit-Baltistan and Azad Jammu & Kashmir

Dry weather reported from Gilgit-Baltistan and Azad Jammu & Kashmir during the week. Weekly maximum and minimum temperatures recorded as 17.1°C & 0.8°C respectively. For the recent week on average 31.1 growing degree days were accumulated. Average relative humidity recorded as 62% and wind speed in the morning/evening recorded as 0.2/1.2 Knots. During the previous week the lowest minimum temperature was recorded as -7.0°C at Astore.

Past Weather for Major Agricultural Plains**(8th - 14th February, 2021)****Rawalpindi (Potohar region)**

Dry weather reported from Rawalpindi during the week; however, cloudiness in the morning/evening recorded as 2.7/1.3 Oktas while, average relative humidity observed as 66%. Mean night time temperature recorded as 6.6°C & for the recent week 78.1 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.2/0.6 Knots.

Faisalabad (Central Punjab)

Dry weather reported from Faisalabad during the week; however, cloudiness in the morning/evening recorded as 0.7/2.0 Oktas while, average relative humidity observed as 71%. Mean night time temperature recorded as 9.2°C & for the recent week 87.2 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/0.5 Knots.

Tandojam (Lower Sindh)

Dry weather reported from Tandojam during the week; however, cloudiness in the morning/evening recorded as 0.3/0.6 Oktas while, average relative humidity observed as 65%. Mean night time temperature recorded as 7.5°C & for the recent week 107.8 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.2/0.6 Knots.

Usta Muhammad (Eastern Baluchistan)

Dry weather reported from Usta Muhammad during the week; however, cloudiness in the morning/evening recorded as 0.2/0.7 Oktas while, average relative humidity observed as 63%. Mean night time temperature recorded as 11.3°C & for the recent week 98.8 growing degree days accumulated. Calm wind reported in the morning/evening.

Quetta (Northern Baluchistan)

Dry weather reported from Quetta during the week; however, cloudiness in the morning/evening recorded as 1.4/1.7 Oktas while, average relative humidity observed as 25%. Mean night time temperature recorded as 3.3°C & for the recent week 45.6 growing degree days accumulated. Wind speed recorded in the morning/evening as 2.5/3.4 Knots.

Past Weather for Sub-Regional Agricultural Plains (8th - 14th February, 2021)**Multan**

Dry weather reported from Multan during the week; however, cloudiness in the morning/evening recorded as 1.1/2.6 Oktas while, average relative humidity observed as 64%. Mean night time temperature recorded as 9.8°C & for the recent week 91.1 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/4.6 Knots.

Lahore

Dry weather reported from Lahore during the week; however, cloudiness in the morning/evening recorded as 0.0/0.4 Oktas while, average relative humidity observed as 74%. Mean night time temperature recorded as 10.6°C & for the recent week 84.0 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/8.0 Knots.

Zhob

Dry weather reported from Zhob during the week; however, cloudiness in the morning/evening recorded as 0.3/1.0 Oktas while, average relative humidity observed as 28%. Mean night time temperature recorded as 3.4°C & for the recent week 61.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 3.6/0.0 Knots.

Murree

Dry weather reported from Murree during the week; however, cloudiness in the morning/evening recorded as 2.1/2.3 Oktas while, average relative humidity observed as 49%. Mean night time temperature recorded as 3.0°C & for the recent week 34.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.4/4.3 Knots.

D.I. Khan

Dry weather reported from D.I. Khan during the week; however, cloudiness in the morning/evening recorded as 0.5/0.0 Oktas while, average relative humidity observed as 67%. Mean night time temperature recorded as 10.1°C & for the recent week 93.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/0.9 Knots.

Peshawar

Dry weather reported from Peshawar during the week; however, cloudiness in the morning/evening recorded as 1.7/1.3 Oktas while, average relative humidity observed as 61%. Mean night time temperature recorded as 7.2°C & for the recent week 81.5 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/3.7 Knots.

Kalam

Dry weather reported from Kalam during the week; however, cloudiness in the morning/evening recorded as 1.6/2.9 Oktas while, average relative humidity observed as 59%. Mean night time temperature recorded as -2.7°C & for the recent week 2.9 growing degree days accumulated. Calm wind reported in the morning/evening.

Gilgit

Dry weather reported from Gilgit during the week. However, cloudiness in the morning/evening recorded as 3.9/3.9 Oktas while, average relative humidity observed as 49%. Mean night time temperature recorded as -0.6°C & for the recent week 25.8 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.9/1.7 Knots.

Skardu

Rainfall reported as trace (not measurable) from Skardu during the week; however, cloudiness in the morning/evening recorded as 5.1/4.3 Oktas while, average relative humidity observed as 63%. Mean night time temperature recorded as -4.0°C. Calm wind reported 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)

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

Wheat: V. Good, Shooting Stage Completed.

Lower Sindh (Tandojam)

Presently wheat crop is sown in the fields of RAMC Tandojam.

Wheat: Good, Crop Variety (TD-1), Milk Maturity Stage.

Northern Baluchistan (Quetta)

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

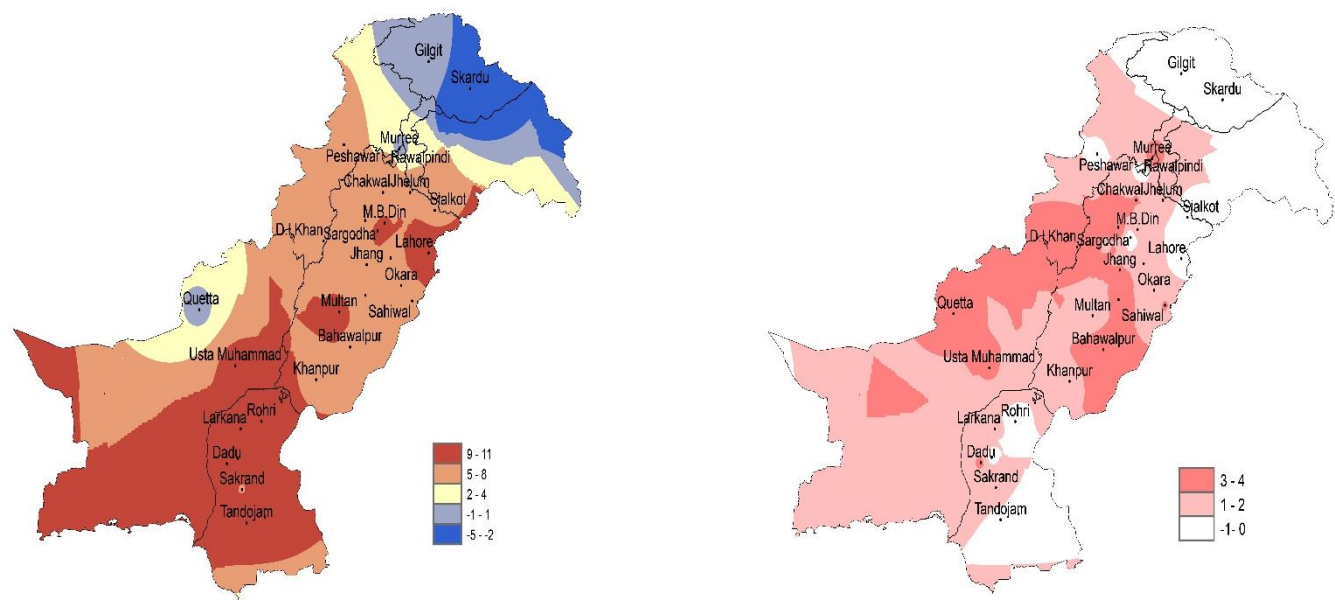
Wheat: Good, Crop Variety (Seriab-92), Third leaf Stage.

Eastern Baluchistan (Usta Muhammad)

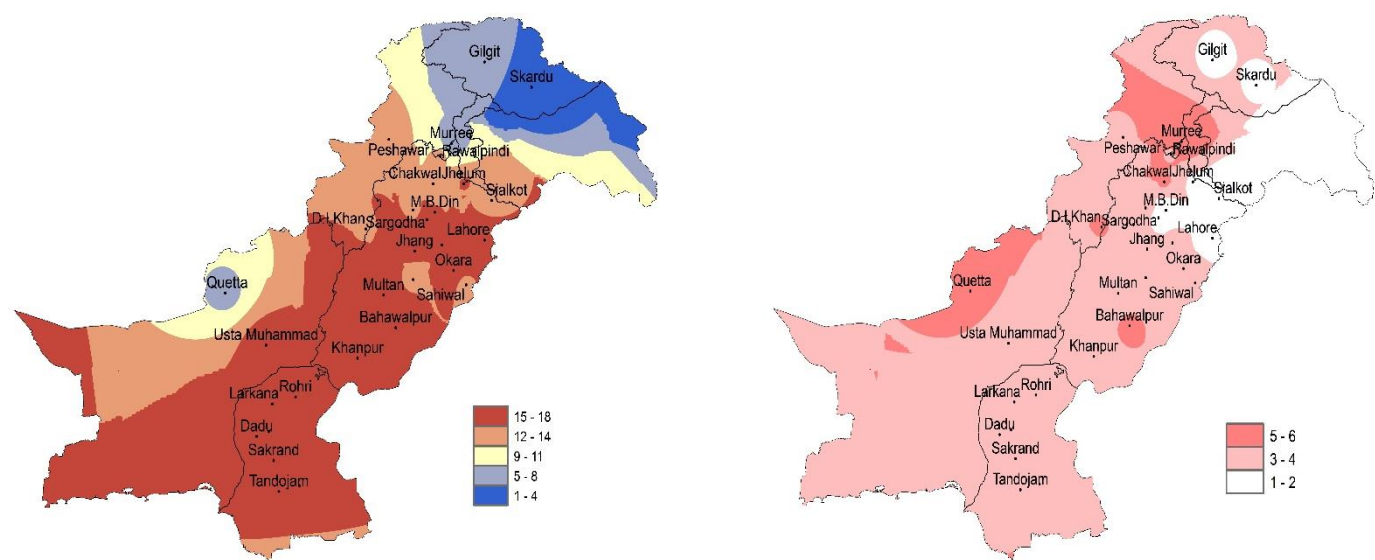
Presently wheat crop is sown in the fields of RAMC Usta Muhammad.

Wheat: Good, Tillering Stage.

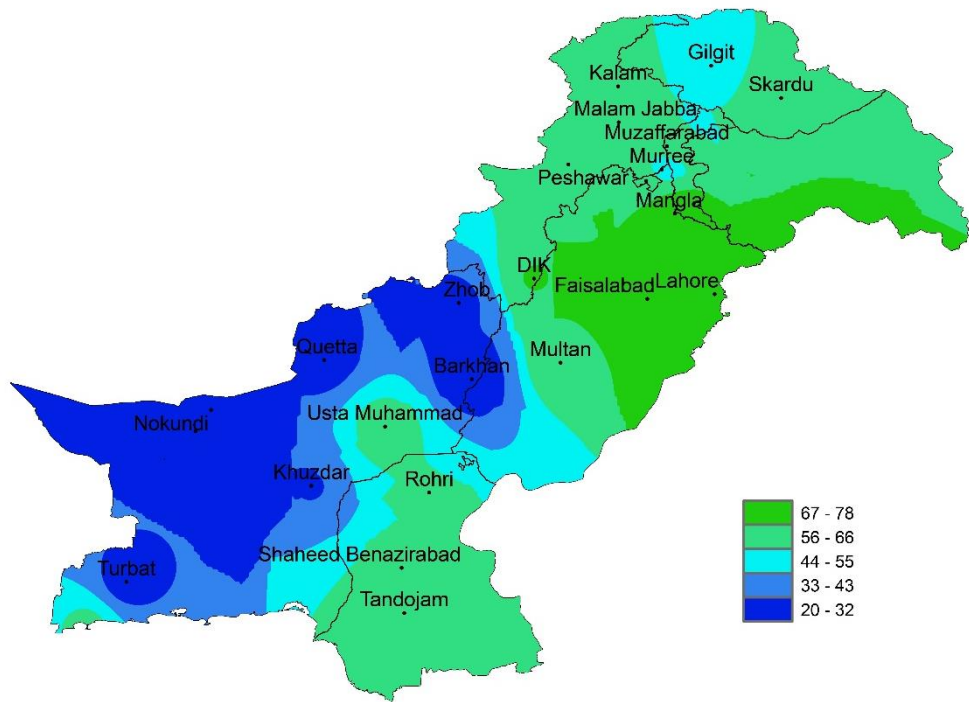
Normal & Departure of Minimum temperature (°C) for the previous week (8th – 14th February, 2021)



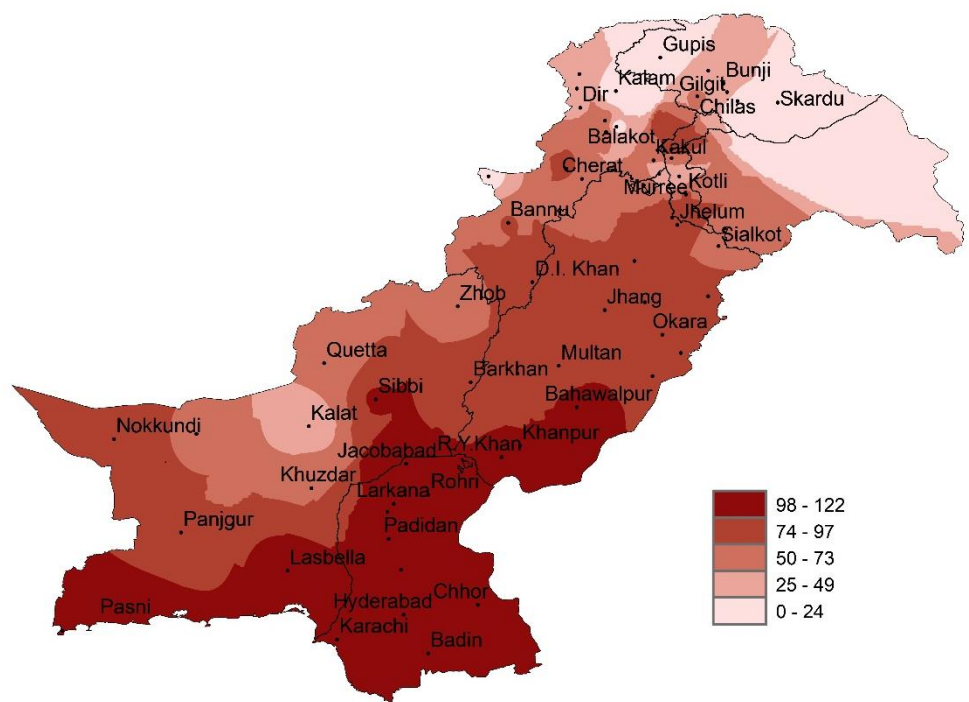
Normal & Departure of Mean temperature (°C) for the previous week 8th – 14th February, 2021)



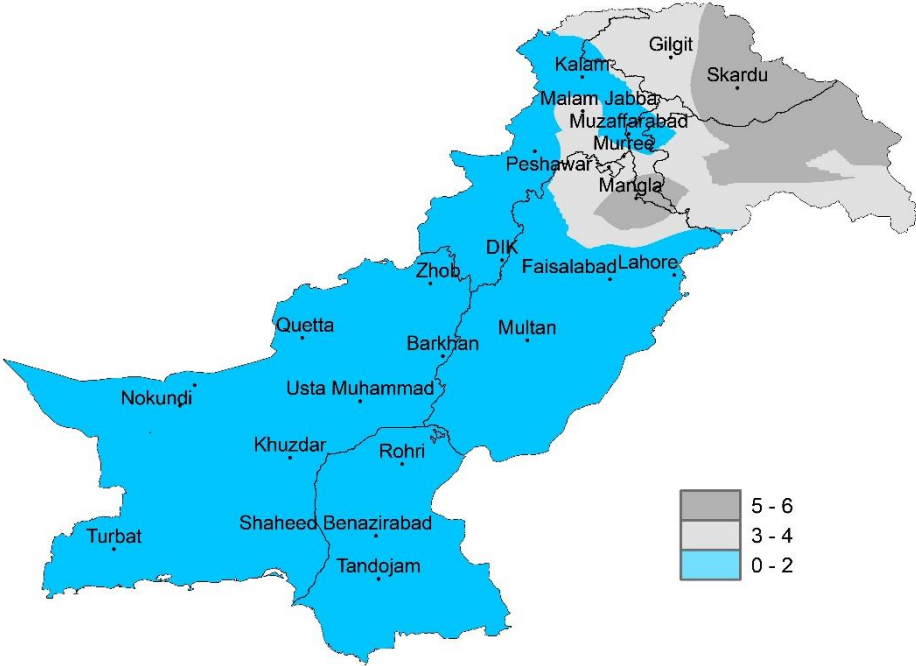
Mean Relative Humidity (%) during the previous week (8th – 14th February, 2021)



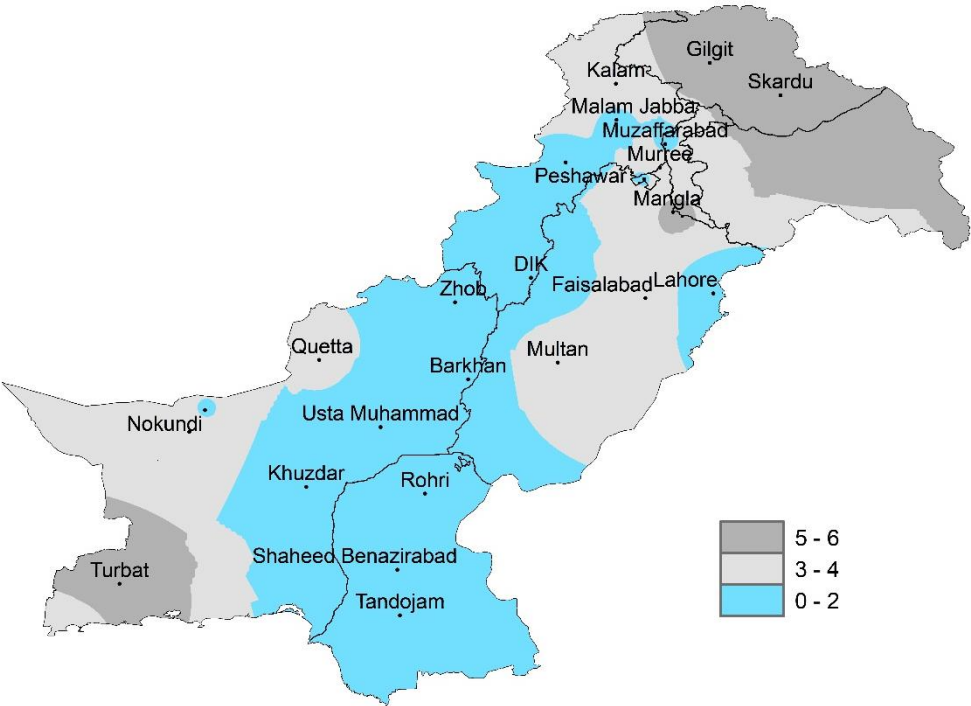
Total Growing Degree Days accumulated during the previous week (8th – 14th February, 2021)



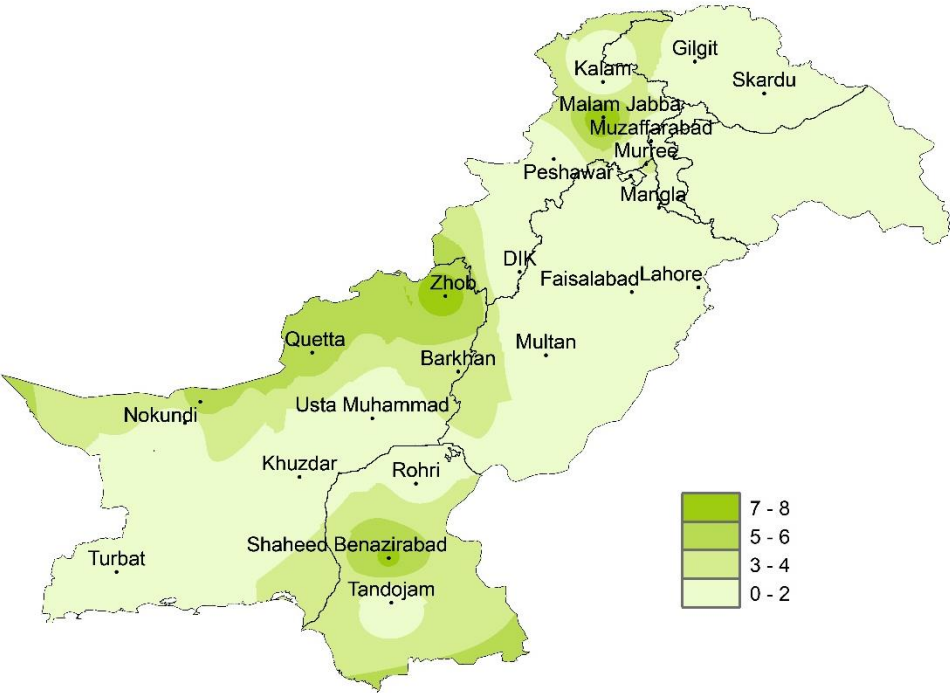
Mean Cloudiness (Oktas) at 0800PST during the previous week (8th – 14th February, 2021)



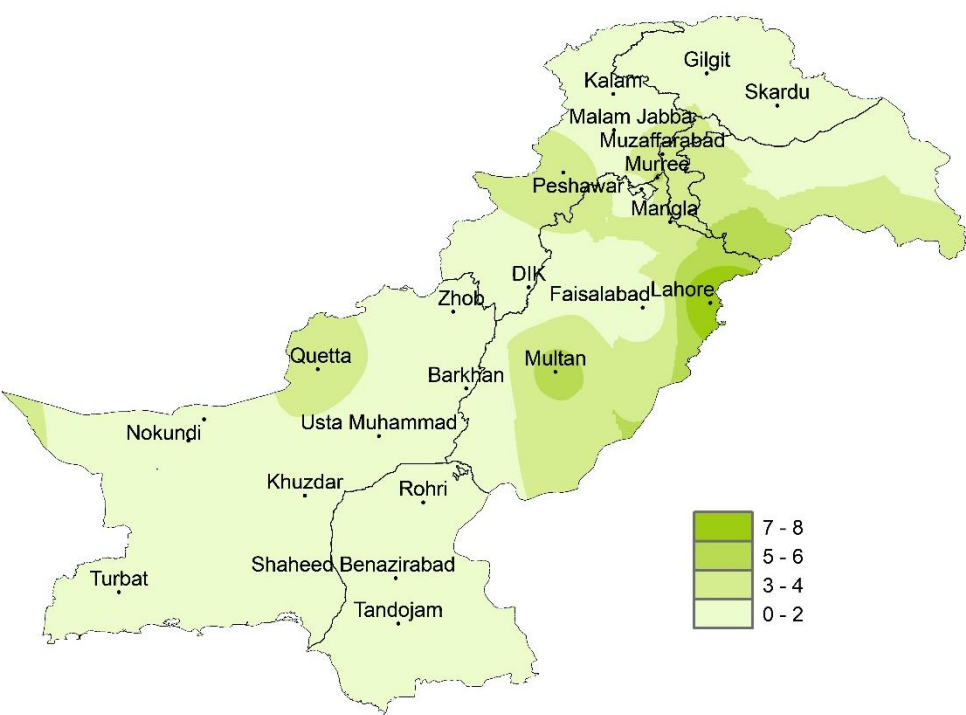
Mean Cloudiness (Oktas) at 1700PST during the previous week (8th – 14th February, 2021)



Mean Wind Speed (Knots) at 0800PST during the previous week (8th – 14th February, 2021)



Mean Wind Speed (Knots) at 1700PST during the previous week (8th – 14th February, 2021)



Weekly Weather Advisory for Farmers**(15th – 21st February, 2021)**

Continental air is prevailing over most parts of the country.

MONDAY**15-02-2021**

Fog is likely to prevail over plain areas of Punjab, while cold and dry weather is expected in other parts of the country.

TUESDAY**16-02-2021**

Fog is likely to prevail over plain areas of Punjab, while cold and dry weather is expected in other parts of the country.

WEDNESDAY**17-02-2021**

Mainly cold and dry weather is expected in most parts of the country, while very cold in upper parts. Fog is likely to prevail over plain areas of Punjab.

THURSDAY**18-02-2021**

Mainly cold and dry weather is expected in most parts of the country, while very cold in upper parts.

FRIDAY**19-02-2021.**

Mainly cold and dry weather is expected in most parts of the country, while very cold in upper parts.

SATURDAY**20-02-2021**

Mainly cold and dry weather is expected in most parts of the country. However, rain/snow is expected in upper Khyber Pakhtunkhwa and Gilgit-Baltistan.

SUNDAY**21-02-2021**

Mainly cold and dry weather is expected in most parts of the country. However, rain/snow is expected in upper Khyber Pakhtunkhwa, Gilgit-Baltistan, Kashmir and Potohar region.

ADVISORY FOR FARMERS

During the last week, dry weather reported from Punjab, Khyber Pakhtunkhwa, Sindh, Baluchistan, Kashmir and Gilgit-Baltistan. Keeping in view the expected weather conditions farmers are advised the following advisories.

- ❖ Farmers should make proper arrangements to protect their nurseries, fruit plants and vegetables from cold weather.
- ❖ Farmers are advised to spray pesticides to avoid any pest attack.

National Weather Data of Selected Cities from (8th - 14th February, 2021)

Stations	Minimum /Night 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	Minimum							
Barkhan	9.5	6.5	85.3	22	0.00	0.7	0.4	1.7	0.0
Dalbandin	9.1	7.5	87.8	31	0.00	1.1	2.9	0.3	0.0
D.I. Khan	10.1	8.5	93.3	67	0.00	0.5	0.0	0.0	0.9
Faisalabad	9.2	7.4	87.2	71	0.00	0.7	2.0	0.0	0.5
Gawadar	11.6	11.0	106.8	59	0.00	1.1	2.6	0.0	0.6
Gilgit	-0.6	-3.0	25.8	49	0.00	3.9	3.9	0.9	1.7
Kalam	-2.7	-3.5	2.9	59	0.00	1.6	2.9	0.0	0.0
Khuzdar	5.9	4.0	72.3	31	0.00	0.0	0.0	0.0	0.6
Lahore	10.6	9.7	84.0	74	0.00	0.0	0.4	0.0	8.0
Malam Jabba	1.5	0.5	6.5	59	0.00	2.3	1.1	4.3	0.0
Mangla	8.4	6.9	76.2	77.9	0.00	6.0	3.1	0.0	2.9
Multan (PBO)	9.8	8.8	91.1	64	0.00	1.1	2.6	0.0	4.6
Murree	3.0	2.0	34.3	49	0.00	2.1	2.3	1.4	4.3
Muzaffarabad	6.5	5.6	73.5	58	0.00	1.4	1.3	0.0	3.1
Nokkundi	10.6	10.0	113.7	57	0.00	1.6	1.1	3.4	0.0
Nawabshah	9.8	7.5	95.8	20	0.00	1.6	1.3	2.9	0.0
Peshawar	7.2	5.5	81.5	61	0.00	1.7	1.3	0.0	3.7
Quetta	3.3	1.5	45.6	25	0.00	1.4	1.7	2.5	3.4
Rawalpindi	6.6	5.0	78.1	66	0.00	2.7	1.3	0.2	0.6
Rohri	11.9	9.5	110.0	56	0.00	0.4	0.0	0.9	1.7
Skardu	-4.0	-6.4	0.0	63	0.02	5.1	4.3	0.0	0.0
Tandojam	7.5	6.0	107.8	65	0.00	0.3	0.6	0.2	0.0
Turbat	11.9	10.0	115.5	26	0.00	1.6	3.6	0.0	0.0
Usta. M	11.3	10.5	98.8	63	0.00	0.2	0.7	0.0	0.0
Zhob	3.4	2.5	61.3	28	0.00	0.3	1.0	3.6	0.0

*** 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)