

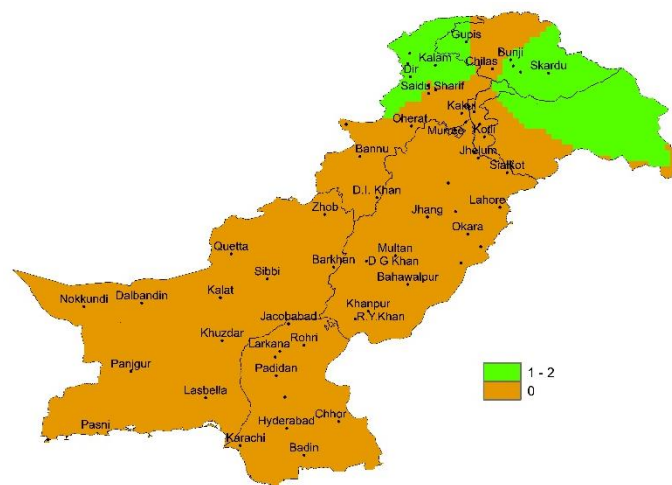
# Weekly Weather and Crop Bulletin for Pakistan

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

## ISLAMABAD

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**Rainfall Distribution (mm) during the Previous Week (25<sup>th</sup>– 31<sup>st</sup> January, 2021)**

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## Highlights of Past Weather (25<sup>th</sup> - 31<sup>st</sup> January, 2021)

Below normal night 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 a few stations in upper Khyber Pakhtunkhwa and Gilgit-Baltistan.
2. Cold and dry weather reported from Sindh, Baluchistan, Punjab and lower Khyber Pakhtunkhwa.

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

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

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

**Past Weather of Provinces (25<sup>th</sup> - 31<sup>st</sup> January, 2021)****Punjab**

Dry weather reported from Punjab during the week. Weekly maximum and minimum temperatures recorded as 21.5°C & 3.8°C respectively. For the recent week on average 53.5 growing degree days were accumulated. Average relative humidity recorded as 59% and wind speed in the morning/evening recorded as 0.5/2.1 Knots. During the previous week the lowest minimum temperature was recorded as 0.0°C at Murree.

**Baluchistan**

Dry weather reported from Baluchistan during the week. Weekly maximum and minimum temperatures recorded as 21.7°C & 2.2°C respectively. For the recent week on average 49.6 growing degree days were accumulated. Average relative humidity recorded as 38% and wind speed in the morning/evening recorded as 1.7/4.1 Knots. During the previous week the lowest minimum temperature was recorded as -7.0°C at Kalat.

**Khyber Pakhtunkhwa**

Light rainfall reported from a single station in upper Khyber Pakhtunkhwa during the week. Weekly maximum and minimum temperatures recorded as 16.9°C & 0.4°C respectively. For the recent week on average 29.0 growing degree days were accumulated. Average relative humidity recorded as 65% and wind speed in the morning/evening recorded as 1.3/1.5 Knots. During the previous week the highest precipitation was recorded as 2.1 mm at Kalam while the lowest minimum temperature was recorded as -11.5°C at Kalam.

**Sindh**

Dry weather reported from Sindh during the week. Weekly maximum and minimum temperatures recorded as 25.5°C & 6.1°C respectively. For the recent week, on average 75.7 growing degree days were accumulated. Average relative humidity recorded as 52% and wind speed in the

morning/evening recorded as 0.8/3.1 Knots. During the previous week the lowest minimum temperature was recorded as 1.0°C at Moenjodaro.

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

Light rainfall reported from a single station in Gilgit-Baltistan during the week. Weekly maximum and minimum temperatures recorded as 11.7°C & -4.0°C respectively. For the recent week on average 11.6 growing degree days were accumulated. Average relative humidity recorded as 59% and wind speed in the morning/evening recorded as 0.2/0.4 Knots. During the previous week the highest precipitation was recorded as 1.6 mm at Astore while the lowest minimum temperature was recorded as -13.0°C at Astore.

**Past Weather for Major Agricultural Plains**  
**(25<sup>th</sup> - 31<sup>st</sup> January, 2021)**

**Rawalpindi (Potohar region)**

Dry weather reported from Rawalpindi during the week; however, cloudiness in the morning/evening recorded as 0.3/1.1 Oktas while, average relative humidity observed as 65%. Mean night time temperature recorded as 2.1°C & for the recent week 47.2 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/0.5 Knots.

**Faisalabad (Central Punjab)**

Dry weather reported from Faisalabad during the week; however, cloudiness in the morning/evening recorded as 0.3/1.6 Oktas while, average relative humidity observed as 64%. Mean night time temperature recorded as 3.7°C & for the recent week 51.8 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, clear sky observed in the morning/evening while, average relative humidity observed as 52%. Mean night time temperature recorded as 4.6°C & for the recent week 71.2 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.9/1.5 Knots.

**Usta Muhammad (Eastern Baluchistan)**

Dry weather reported from Usta Muhammad during the week; however, cloudiness in the morning/evening recorded as 0.4/0.0 Oktas while, average relative humidity observed as 58%. Mean night time temperature recorded as 5.6°C & for the recent week 64.3 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 0.3/1.1 Oktas while, average relative humidity observed as 27%. Mean night time temperature recorded as -3.0°C & for the recent week 5.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.7/3.3 Knots.

**Past Weather for Sub-Regional Agricultural Plains (25<sup>th</sup> - 31<sup>st</sup> January, 2021)**

**Multan**

Dry weather reported from Multan during the week; however, cloudiness in the morning/evening recorded as 1.0/0.7 Oktas while, average relative humidity observed as 62%. Mean night time temperature recorded as 4.2°C & for the recent week 56.2 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/4.9 Knots.

**Lahore**

Dry weather reported from Lahore during the week; however, cloudiness in the morning/evening recorded as 0.0/0.6 Oktas while, average relative humidity observed as 59%. Mean night time temperature recorded as 6.5°C & for the recent week 61.4 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.0/0.6 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 29%. Mean night time temperature recorded as -2.2°C & for the recent week 15.8 growing degree days accumulated. Wind speed recorded in the morning/evening as 5.0/0.0 Knots.

**Murree**

Dry weather reported from Murree during the week; however, cloudiness in the morning/evening recorded as 0.3/0.3 Oktas while, average relative humidity observed as 55%. Mean night time temperature recorded as 0.1°C & for the recent week 6.0 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.4/4.0 Knots.

**D.I. Khan**

Dry weather reported from D.I. Khan during the week; however, cloudiness in the morning/evening recorded as 0.9/1.7 Oktas while, average relative humidity observed as 55%. Mean night time temperature recorded as 4.0°C & for the recent week 62.3 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.9/0.9 Knots.

**Peshawar**

Dry weather reported from Peshawar during the week; however, cloudiness in the morning/evening recorded as 0.9/2.7 Oktas while, average relative humidity observed as 56%. Mean night time temperature recorded as 1.7°C & for the recent week 50.2 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.3/2.0 Knots.

**Kalam**

Rainfall reported as 2.1 mm from Kalam during the week; however, cloudiness in the morning/evening recorded as 0.0/1.4 Oktas while, average relative humidity observed as 71%. Mean night time temperature recorded as -9.2°C. Calm wind reported in the morning/evening.

**Gilgit**

Dry weather reported from Gilgit during the week. However, cloudiness in the morning/evening recorded as 1.0/1.3 Oktas while, average relative humidity observed as 58%. Mean night time temperature recorded as -6.3°C. Calm wind reported in the morning/evening.

**Skardu**

Dry weather reported from Skardu during the week; however, cloudiness in the morning/evening recorded as 2.6/2.4 Oktas while, average relative humidity observed as 61%. Mean night time temperature recorded as -9.4°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, Tillering Stage Completed.**

**Lower Sindh (Tandojam)**

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

**Wheat: Good, Crop Variety (TD-1), Heading Stage.**

**Northern Baluchistan (Quetta)**

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

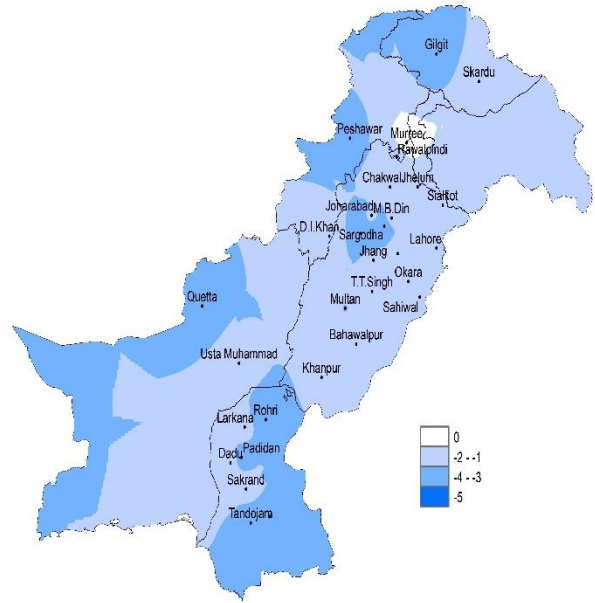
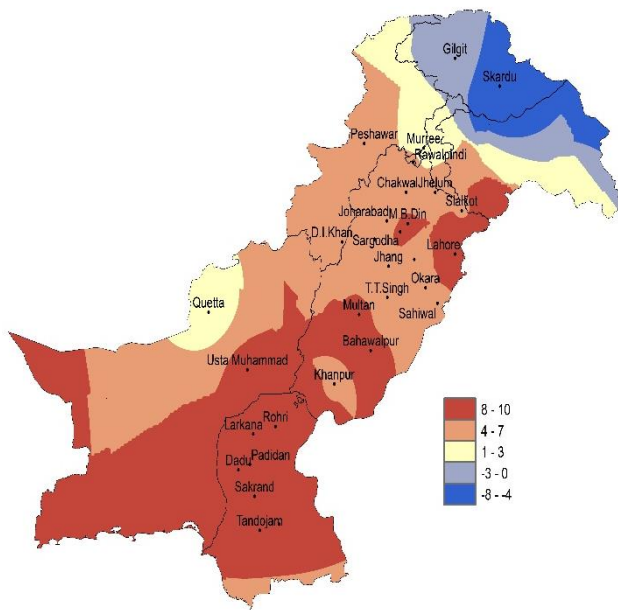
**Wheat: Good, Crop Variety (Seriab-92), Third leaf Stage.**

**Eastern Baluchistan (Usta Muhammad)**

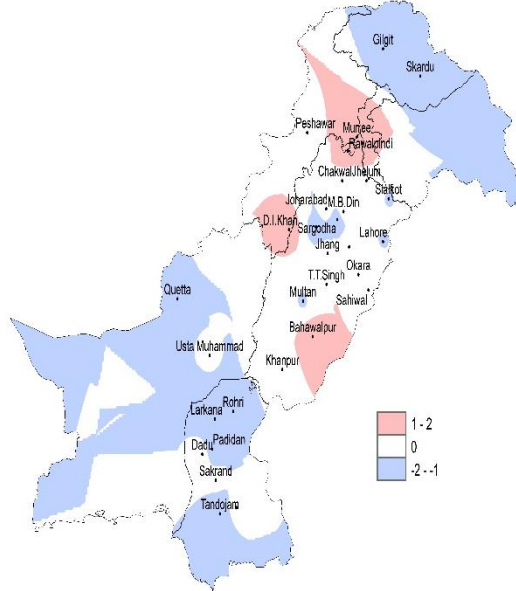
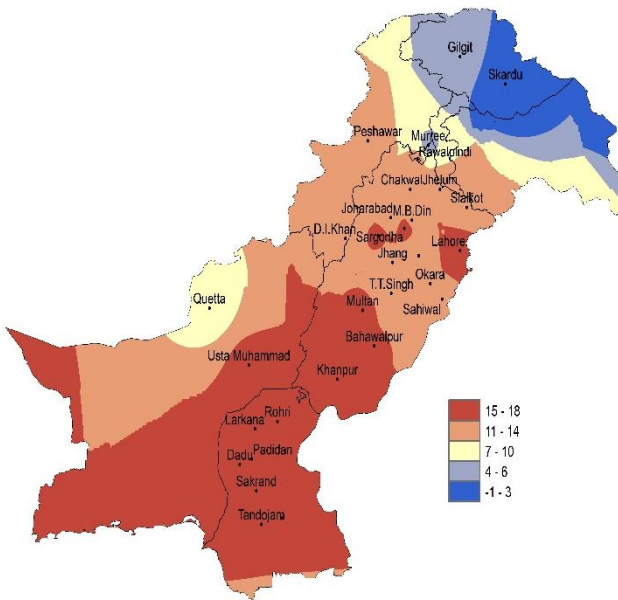
Presently wheat crop is sown in the fields of RAMC Usta Muhammad.

**Wheat: Good, Tillering Stage.**

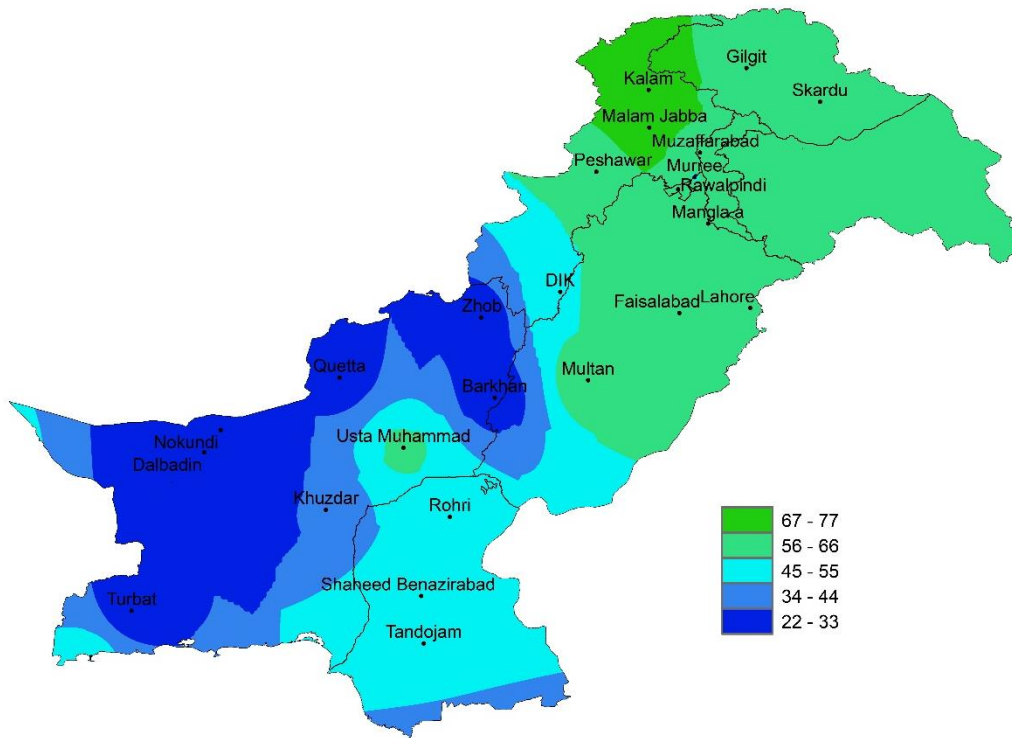
**Normal & Departure of Minimum temperature (°C) for the previous week (25<sup>th</sup> – 31<sup>st</sup> January, 2021)**



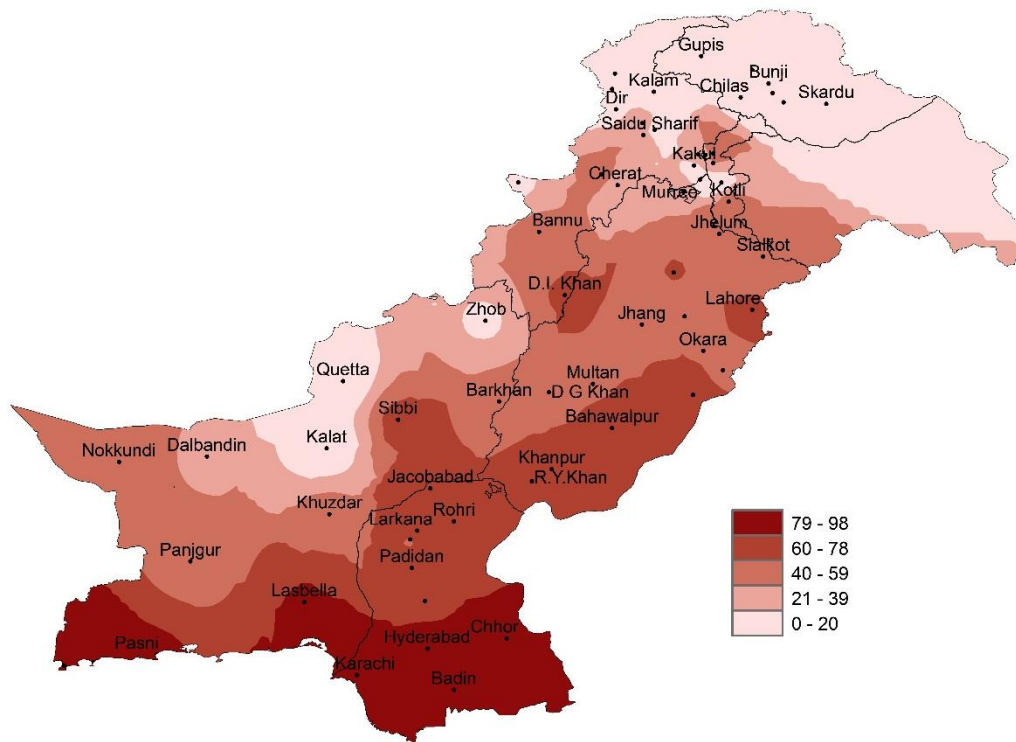
**Normal & Departure of Mean temperature (°C) for the previous week (25<sup>th</sup> – 31<sup>st</sup> January, 2021)**



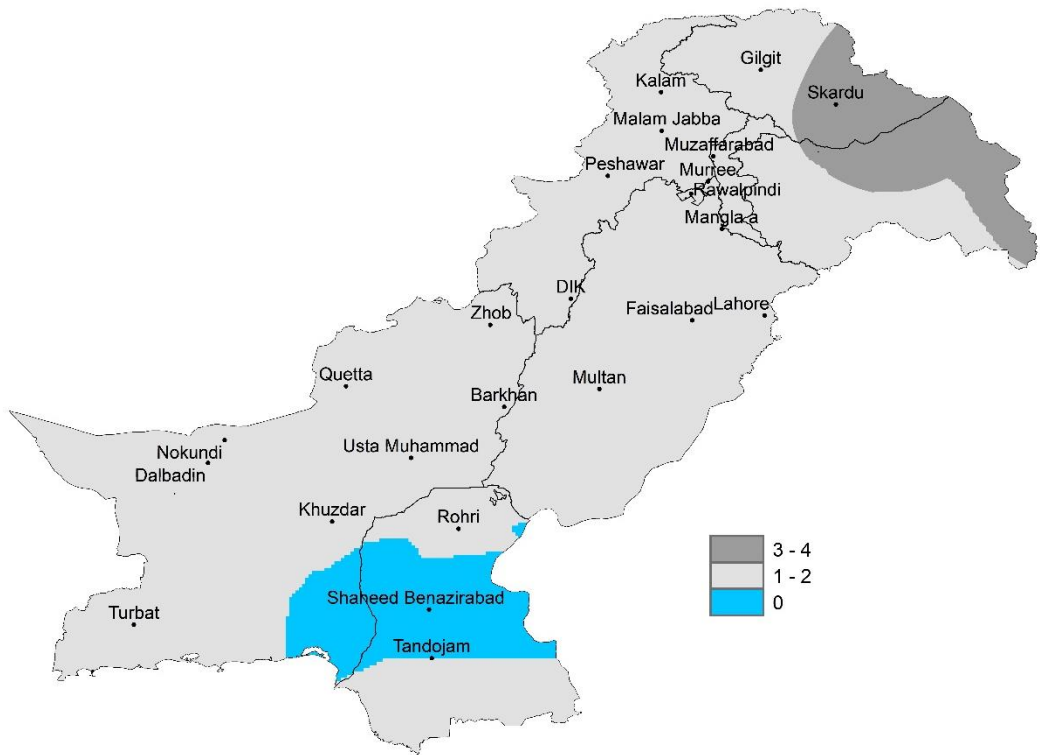
Mean Relative Humidity (%) during the previous week (25<sup>th</sup> – 31<sup>st</sup> January, 2021)



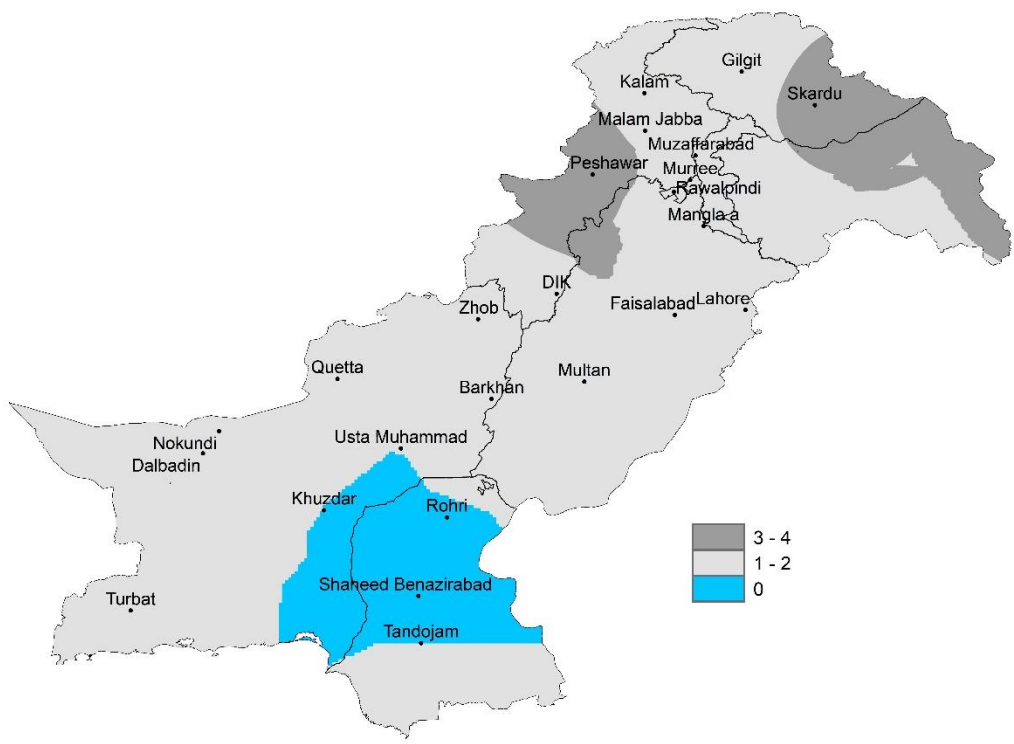
Total Growing Degree Days accumulated during the previous week (25<sup>th</sup> – 31<sup>st</sup> January, 2021)



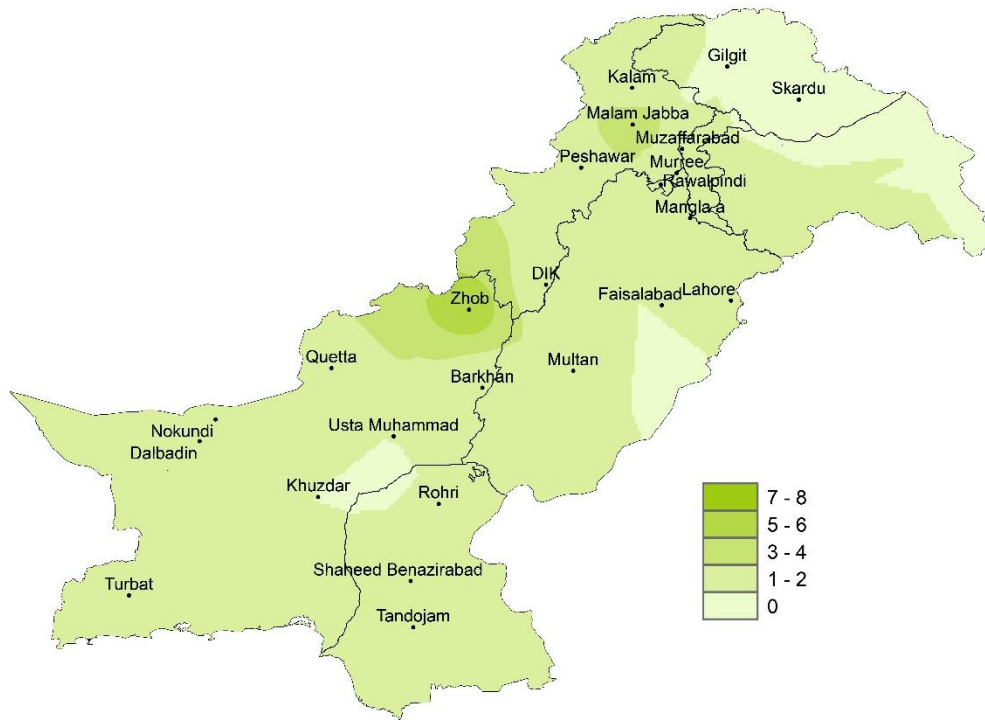
**Mean Cloudiness (Oktas) at 0800PST during the previous week (25<sup>th</sup> – 31<sup>st</sup> January, 2021)**



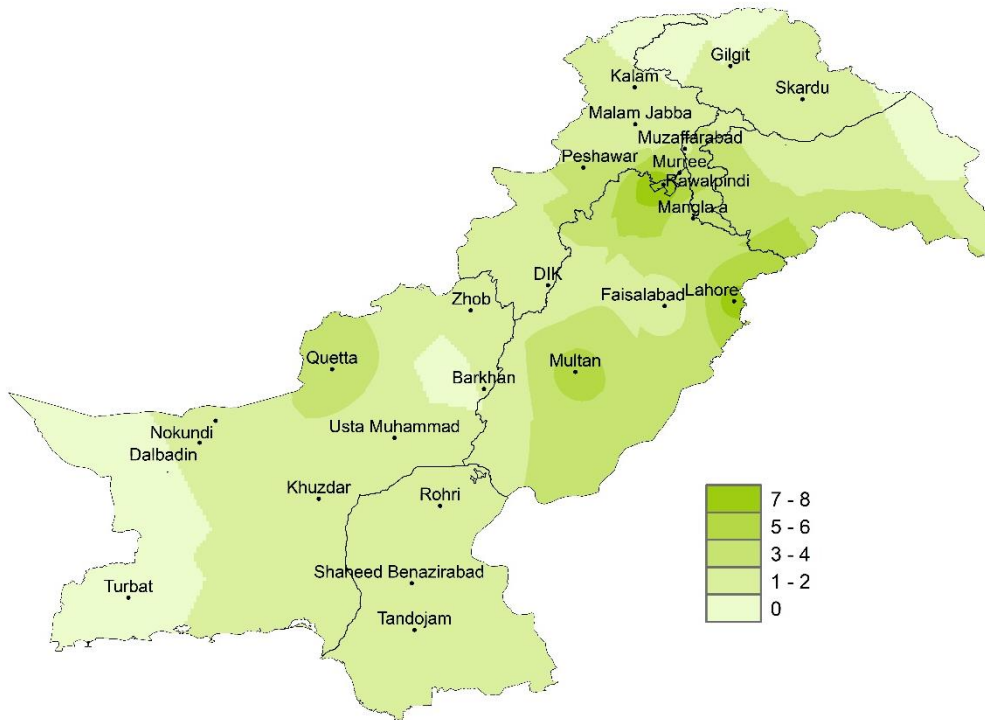
**Mean Cloudiness (Oktas) at 1700PST during the previous week (25<sup>th</sup> – 31<sup>st</sup> January, 2021)**



**Mean Wind Speed (Knots) at 0800PST during the previous week (25<sup>th</sup> – 31<sup>st</sup> January, 2021)**



**Mean Wind Speed (Knots) at 1700PST during the previous week (25<sup>th</sup> – 31<sup>st</sup> January, 2021)**





**Weekly Weather Advisory for Farmers****(1<sup>st</sup> – 7<sup>th</sup> February, 2021)**

Continental air is prevailing over most parts of the country. A westerly wave is likely to affect upper and central parts of the country from Tuesday to Thursday.

**MONDAY****01-02-2021**

Cold and dry weather is expected in most parts of the country. However, partly cloudy weather is expected in upper Khyber Pakhtunkhwa, Kashmir, Gilgit-Baltistan. While, light rain/snow is expected at a few places in upper Khyber Pakhtunkhwa and Gilgit-Baltistan.

**TUESDAY****02-02-2021**

Cold and dry weather is expected in most parts of the country. However, partly cloudy weather with light rain/snow is expected at isolated places in Upper Khyber Pakhtunkhwa, Kashmir, Gilgit-Baltistan and north Balochistan. While partly cloudy weather is also expected in upper Punjab.

**WEDNESDAY****03-02-2021**

Cloudy weather is expected in upper parts of the country, while rain (snowfall over the hills) is likely to occur in upper Khyber Pakhtunkhwa, Kashmir, Gilgit-Baltistan, upper Punjab and north Balochistan. Cold and dry weather is expected elsewhere in the country.

**THURSDAY****04-02-2021**

Cold and dry weather is expected in most parts of the country. However, rain (with snowfall over the hills) is expected in upper Punjab, Kashmir and adjoining hilly areas.

**FRIDAY****05-02-2021.**

Cold and dry weather is expected in most parts of the country. However, light rain (with light snowfall over the hills) is expected in Kashmir and adjoining hilly areas.

**SATURDAY****06-02-2021**

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

**SUNDAY****07-02-2021**

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

**ADVISORY FOR FARMERS**

During the last week, light rainfall reported from upper Khyber Pakhtunkhwa and Gilgit-Baltistan. Cold and dry weather reported from Sindh, Baluchistan, Punjab and lower Khyber Pakhtunkhwa. 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 (25<sup>th</sup> - 31<sup>st</sup> January, 2021)**

Stations	Minimum /Night 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	Minimum							
Barkhan	3.8	3.0	46.8	27	0.00	0.0	0.3	0.3	0.0
Dalbandin	-0.9	-5.0	36.8	26	0.00	1.0	1.1	0.3	0.0
D.I. Khan	4.0	3.0	62.5	55	0.00	0.9	1.7	0.9	0.9
Faisalabad	3.7	3.0	51.8	64	0.00	0.3	1.6	0.0	1.1
Gawadar	11.4	9.0	98.5	50	0.00	0.0	0.0	0.0	0.0
Gilgit	-6.3	-7.0	0.0	58	0.00	1.0	1.3	0.0	0.0
Kalam	-9.2	-11.5	0.0	71	2.10	0.0	1.4	0.0	0.0
Khuzdar	1.6	0.0	48.3	34	0.00	0.0	0.0	0.0	1.1
Lahore	6.5	6.2	61.4	59	0.00	0.0	0.6	0.0	6.0
Malam Jabba	-3.2	-4.5	0.0	77	0.00	0.6	1.7	4.0	0.0
Mangla	3.2	2.2	53.9	59.5	0.00	0.7	1.3	0.9	2.9
Multan (PBO)	4.2	3.7	56.2	62	0.00	1.0	0.7	0.0	4.9
Murree	0.1	0.0	6.0	55	0.00	0.3	0.3	1.4	4.0
Muzaffarabad	1.9	1.6	32.5	58	0.00	0.3	0.0	0.0	1.7
Nokkundi	5.3	4.0	75.3	53	0.00	0.0	0.0	1.4	0.0
Nawabshah	1.1	-2.5	47.3	22	0.00	1.0	1.0	1.4	0.0
Peshawar	1.7	1.4	50.2	56	0.00	0.9	2.7	0.3	2.0
Quetta	-3.0	-6.0	5.3	27	0.00	0.3	1.1	1.7	3.1
Rawalpindi	2.1	1.5	47.2	65	0.00	0.3	1.1	0.0	7.1
Rohri	6.1	5.0	73.0	52	0.00	0.0	0.0	0.0	2.0
Skardu	-9.4	-10.6	0.0	61	0.00	2.6	2.4	0.0	0.0
Tandojam	4.6	2.5	71.2	52	0.00	0.0	0.0	0.9	0.0
Turbat	8.4	7.0	91.8	26	0.00	0.1	0.3	2.0	0.0
Usta. M	5.6	5.0	64.3	58	0.00	0.4	0.0	0.0	0.0
Zhob	-2.2	-3.0	15.8	29	0.00	0.3	1.0	5.0	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)