

Decadal Agromet Bulletin of Pakistan



Highlights...

- ❖ Mainly cold and dry weather prevailed in most parts of the country, while very cold in hilly areas. However, light to moderate rain with snowfall over the hills occurred in most parts of the country particularly upper Khyber Pakhtunkhwa along the adjoining areas of Pothohar region and Azad Jammu and Kashmir.
- ❖ Highest amount of rainfall recorded was 21.0 mm at Dir during the last decade.
- ❖ Lowest minimum temperature recorded was -6.0 °C at Gupis during the last decade.
- ❖ Mainly cold and dry weather is expected in most parts of the country. However, light rain/wind (light snowfall over hills) is likely in Gilgit-Baltistan, upper Khyber Pakhtunkhwa, north-western Balochistan, Kashmir, Murree and Galliyat.
- ❖ Farmers are advised to view the weather forecast before any field activity.

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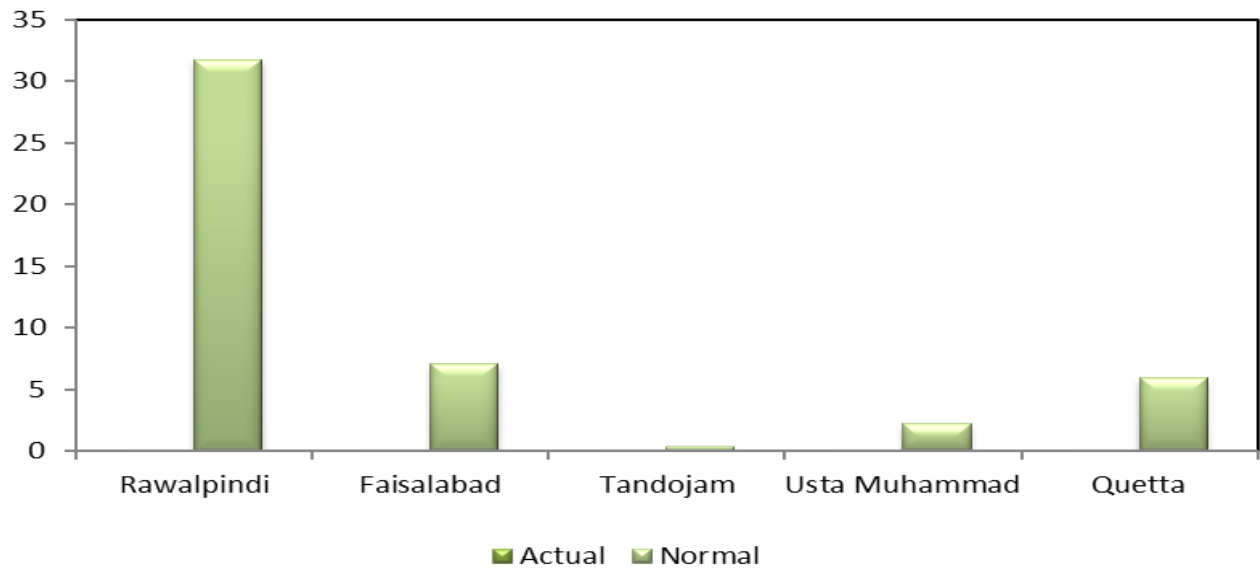
Meteorological Conditions during 1st Decade of February 2025

Sr. No.	Station	Precipitation (mm)			Air Temperature (°C)			Soil Temperatures (°C)						R.H (%)	Sunshine Duration(hours)	Wind Speed (km/hr)	ETo (mm/day)
		Normal	Actual	Dep	Tmx Dep	Tmin Dep	Mean	5cm	10cm	20cm	30cm	50cm	100cm				
1	Rawalpindi	31.7	0.0	-31.7	5.0	-0.1	14.2	14.5	13.8	12.9	13.1	13.5	14.7	53.1	67.5	1.6	1.3
2	Faisalabad	7.0	0.0	-7.0	3.2	0.5	15.5	17.5	16.7	16.0	15.8	***	18.3	53.0	81.0	1.6	1.5
3	Jhelum	17.6	0.1	-17.5	3.0	0.1	15.5	15.4	14.7	14.6	14.7	15.6	***	52.0	60.3	2.9	1.3
4	Lahore	8.6	0.0	-8.6	2.3	-1.0	16.1	15.4	15.2	15.1	15.2	***	17.6	46.0	66.5	0.6	1.4
5	Sargodha	9.7	0.0	-9.7	3.2	0.9	16.1	17.9	17.1	16.9	17.2	***	***	47.0	64.2	2.0	1.3
6	Multan	6.8	0.0	-6.8	2.3	1.6	16.5	***	***	***	***	***	***	50.0	91.3	2.6	1.7
7	Khanpur	8.8	0.0	-8.8	2.7	-1.4	16.5	***	16.1	16.8	17.0	17.3	18.3	49.0	79.1	1.0	1.7
8	Tandojam	0.4	0.0	-0.4	0.8	-0.5	17.8	***	18.5	***	18.7	***	***	48.0	83.2	3.0	1.8
9	Sakrand	1.0	0.0	-1.0	1.1	1.5	17.3	24.3	20.0	18.9	19.8	20.5	***	50.0	91.3	3.4	2.0
11	Rohri	4.2	0.0	-4.2	0.7	-1.6	17.8	***	***	***	***	***	***	42.8	79.8	3.1	1.7
12	D.I Khan	12.8	0.0	-12.8	3.8	2.4	16.9	16.3	15.6	15.9	***	6.0	***	44.0	71.7	2.7	1.4
13	Peshawar	24.8	0.0	-24.8	5.4	-0.6	15.1	14.4	14.3	13.9	14.6	15.1	17.5	42.0	66.2	2.6	1.2
14	Usta M.	2.2	0.0	-2.2	-0.9	-2.0	15.9	18.4	19.5	19.1	***	***	21.8	53.0	**	2.1	2.0
15	Quetta	5.9	0.0	-5.9	2.6	2.2	7.4	9.9	9.3	7.0	6.9	7.9	9.4	36.6	76.7	4.9	1.3
16	Skardu	7.7	0.1	-7.6	1.4	1.1	1.5	***	***	***	***	***	***	50.0	41.6	0.9	0.9
17	Gilgit	1.4	0.0	-1.4	2.6	-1.2	6.5	***	***	***	***	***	***	44.1	42.1	2.4	0.9

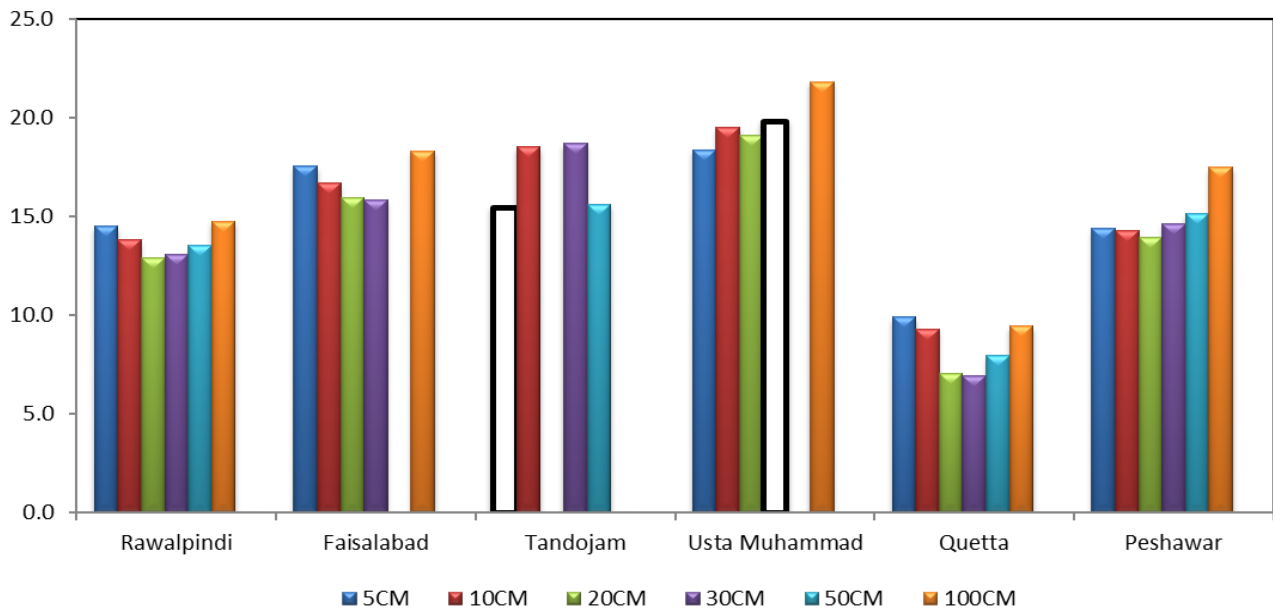
Table-1: Meteorological parameters for selected station of Pakistan. "Dep" in the table stands for difference from climatic normal, i.e. actual value minus normal. The climatic normally used in the Bulletin is extracted from the 2007 - 2016 observed data. 'ETO' stands for reference crop Evapotranspiration*** stands for data non-availability.

Graph at RAMCs during February 2025

Precipitation(mm) during 1st Decade



Soil Temperature(°C)



* Faisalabad 50 cm and Tandojam 5cm Usta Muhammad 30 cm , 50 cm soil temperature data is is not avilbe.

Past Weather (1st to 10th February 2025)

Mainly cold and dry weather prevailed in most parts of the country, while very cold in hilly areas. However, light to moderate rain with snowfall over the hills occurred in most parts of the country particularly upper Khyber Pakhtunkhwa along the adjoining areas of Pothohar region and Azad Jammu and Kashmir. Foggy conditions persisted in plain areas of Punjab and upper Sindh.

1.1 Punjab

Mainly cold and dry weather prevailed over most parts of the province. While, light rainfall observed from few stations of Pothohar region. The decadal maximum and minimum temperatures were observed above normal by 3.1°C and 0.1°C in the province. Whereas values of relative humidity, sunshine hour, wind speed & ETo were recorded 50.0%, 72.8hrs, 1.8km/hr and 1.5mm/day respectively.

1.2 Sindh

Cold and dry weather prevailed over the province. The decadal maximum temperature was observed above normal by 0.8°C and minimum temperature below normal by -0.2°C in the province. Whereas values of relative humidity, sunshine hour, wind speed & ETo were recorded as 46.9%, 84.8hrs, 3.2km/hr and 1.8mm/day respectively.

1.3 Khyber Pakhtunkhwa

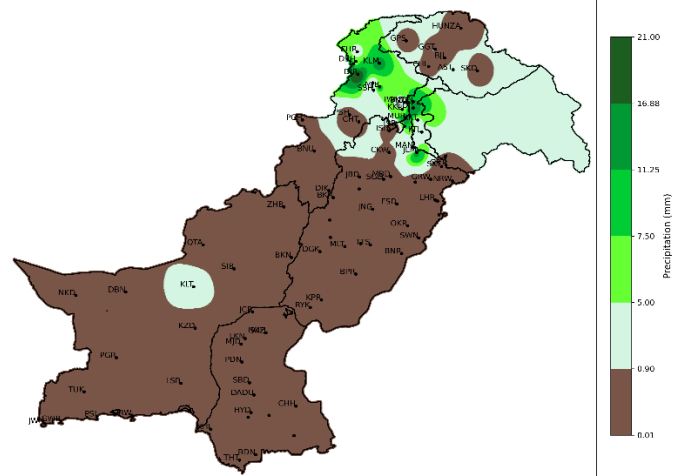
Light to moderate rain (snow over hills) was reported from upper parts of the province. The decadal maximum and minimum temperatures were observed above normal by 4.6°C and 0.9°C in the province. Whereas values of relative humidity, sunshine hour, wind speed & ETo were recorded as 43.0%, 69.0hrs, 2.7km/hr and 1.3mm/day respectively.

1.4 Baluchistan

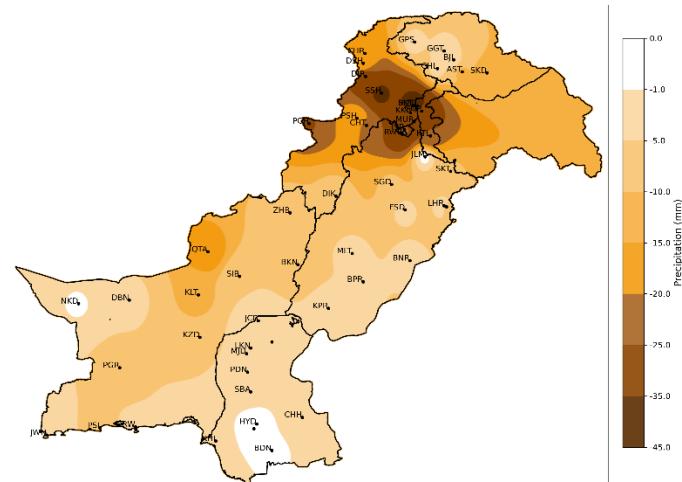
Mainly cold and dry weather prevailed over most parts of the province. The decadal maximum and minimum temperatures were observed above normal by 0.9°C and by 0.1°C in the province. Whereas values of relative humidity, sunshine hour, wind speed & ETo were recorded as 44.8%, 76.7hrs, 3.5km/hr and 1.7mm/day respectively.

1.5 Gilgit-Baltistan and Azad Jammu & Kashmir.

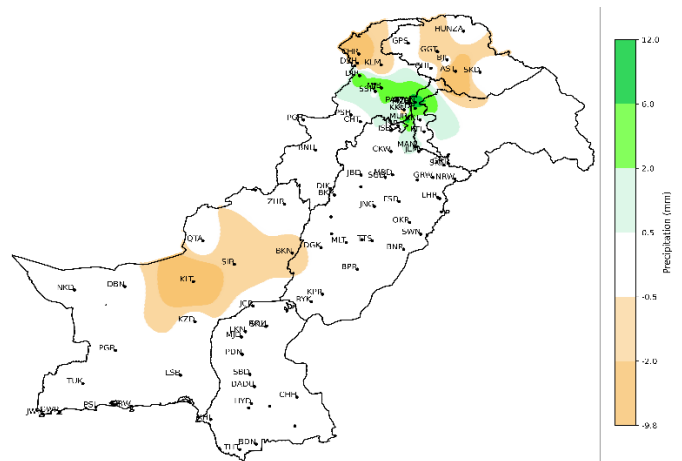
Very cold weather with light to moderate rain (snow over hills) was reported from Gilgit Baltistan and Kashmir. The decadal maximum temperature was observed above normal by 2.0°C and minimum temperature was recorded normal by 0.0°C in the province. Whereas values of relative humidity, sunshine hour, wind speed & ETo were recorded as 47.0%, 41.9hrs, 1.7km/hr and 0.9mm/day respectively.



I. Actual rainfall



II. Departure of rainfall from Normal



III. Departure of rainfall from Previous Decade

Figure.1: Rainfall distribution during previous decade (mm)

(a) **Past Weather for Major Agricultural Plains**
(1st to 10th February 2025)

2.1 RAMC, Rawalpindi (Potohar region)

Rain was reported 0.01 mm during the decade; however, weather remained partially cloudy for 08 days. Average relative humidity recorded as 53.1%. Mean day temperature was 23.9°C while night temperature recorded as 4.5°C with 67.5 hours bright sunshine duration. Wind speed recorded as 1.6km/hr with mean wind direction *variable*.

2.2 RAMC, Faisalabad (Central Punjab)

Rain was reported 0.01 mm during the decade; however, weather remained partially cloudy for 04 days. Average relative humidity recorded as 53%. Mean day temperature was 24.3°C while night temperature recorded as 6.7°C with 81.0 hours bright sunshine duration. Wind speed recorded as 1.6km/hr with mean wind direction westerly.

Wheat: *Very good, shooting completed.*

2.3 RAMC, Tandojam (Lower Sindh)

Cold and dry weather was observed during the decade. however, weather remained partially cloudy for 03 days. Average relative humidity recorded as 48%. Mean day temperature was 27.2°C while night temperature recorded as 8.3°C with 83.2hours bright sunshine duration. Wind speed recorded as 3.0km/hr with mean wind direction *north-north westerly*.

Wheat: *Good, Flowering.*

2.4 RAMC, Usta Muhammad (Eastern Baluchistan)

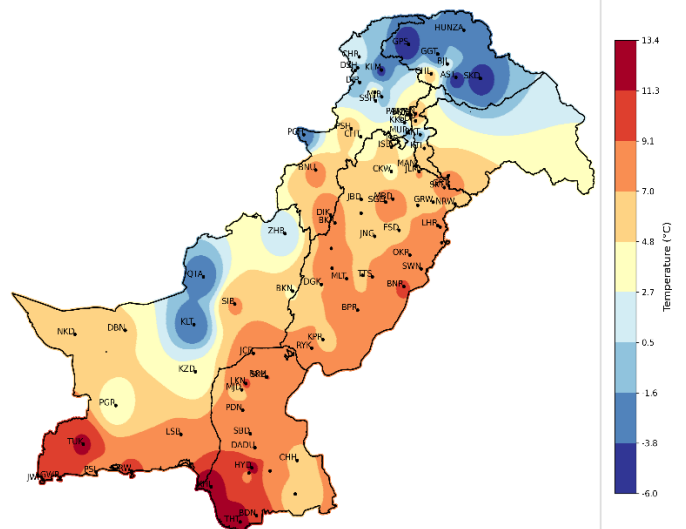
Cold and dry weather was observed during the decade; however, weather remained partially cloudy for 07 days. Average relative humidity recorded as 53%. Mean day temperature was 25.3°C while night temperature recorded as 6.5°C. Wind speed recorded as 2.1 km/hr with mean wind direction *north westerly*.

Wheat: *Good, tillering.*

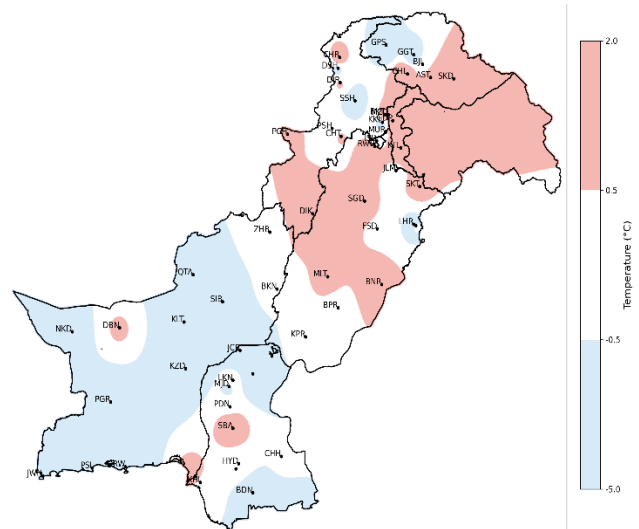
2.5 RAMC, Quetta (Northern Baluchistan)

Rain was reported 0.01 mm during the decade; however, weather remained partially cloudy for 07 days. Average relative humidity recorded as 36.6%. Mean day temperature was 13.7°C while night temperature recorded as 1.1°C with 76.7 hours bright sunshine duration. Wind speed recorded as 4.9 km/hr with mean wind direction *north westerly*.

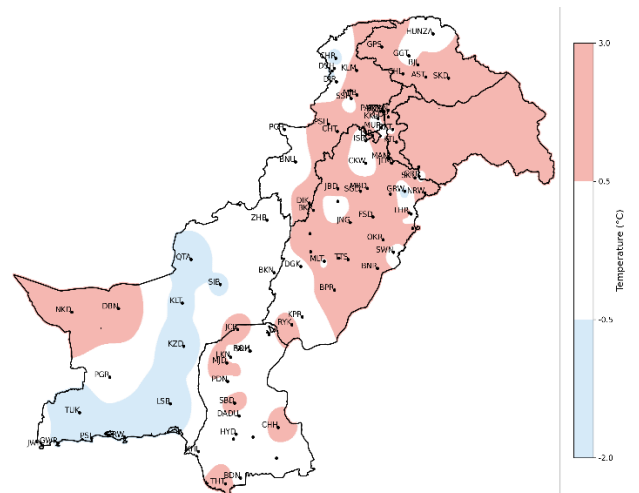
Wheat: *Good, Tillering.*



IV. Actual min-temperature



V. Departure of min-temperature from Normal



VI. Departure of min-temperature from Previous Decade

Figure.2: Minimum Temperature distribution during previous decade (°C)

2(b) Past Weather or Sub-Regional Agricultural Plains (1st to 10th February 2025)

2.6 Jhelum

Rain was reported 0.01 mm during the decade; weather remained partially cloudy for 06 days. Average relative humidity recorded as 52%. Mean day temperature was 23.7°C while night temperature recorded as 7.2°C with 60.3 hours bright sunshine duration. Wind speed recorded as 2.9km/hr with mean wind direction variable.

2.7 Lahore

Cold and dry weather was observed during the decade; however, weather remained partially cloudy for 06 days. Average relative humidity recorded as 46%. Mean day temperature was 23.2°C while night temperature recorded as 8.9°C with 66.5 hours bright sunshine duration. Wind speed recorded as 0.6 km/hr with mean wind direction *westerly*.

2.8 Sargodha

Rain was reported 0.01 mm during the decade; however, weather remained partially cloudy for 05 days. Average relative humidity recorded as 47%. Mean day temperature was 24.4°C while night temperature recorded as 7.8°C with 64.2 hours bright sunshine duration. Wind speed recorded as 2.0km/hr with mean wind direction *south westerly*.

2.9 Multan

Cold and dry weather was observed during the decade; however, weather remained partially cloudy for 06 days. Average relative humidity recorded as 47%. Mean day temperature was 26.2°C while night temperature recorded as 7.0°C with 65.3 hours bright sunshine duration. Wind speed recorded as 2.6 km/hr with mean wind direction *south westerly*.

2.10 Khanpur

Cold and dry weather was observed during the decade; however, weather remained partially cloudy for 04 days. Average relative humidity recorded as 49%. Mean day temperature was 26.1°C while night temperature recorded as 6.8°C with 79.1 hours bright sunshine duration. Wind speed recorded as 1.0 km/hr with mean wind direction *north easterly*.

2.11 Sakrand

Cold and dry weather with clear skies was observed during the decade. Average relative humidity recorded as 50%. Mean day temperature was 25.8°C while night temperature recorded as 8.7°C with 91.3hours bright sunshine duration. Wind speed recorded as 3.4 km/hr with mean direction *variable*.

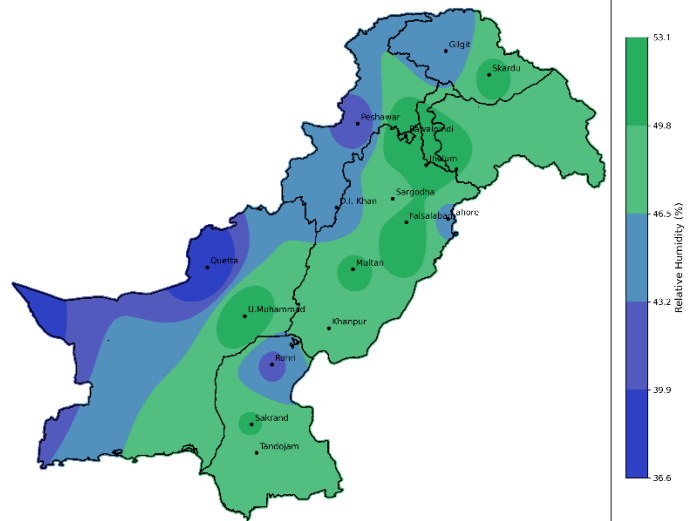


Figure.3: Relative Humidity in Percentage (%)

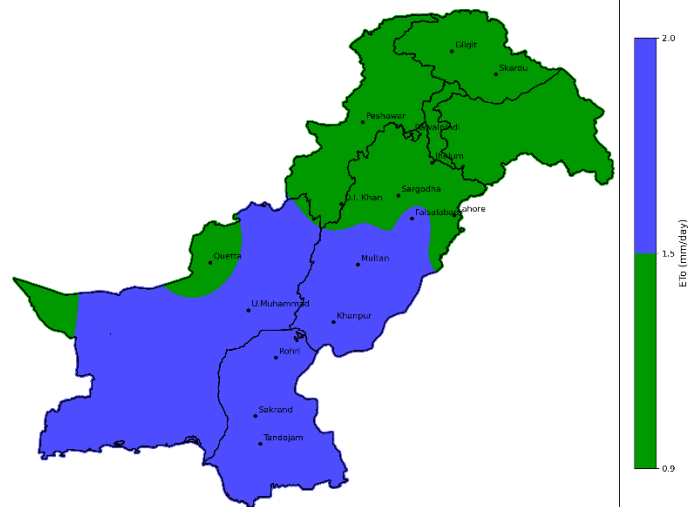


Figure.4: Reference Crop Evapotranspiration ET0 (mm/day)

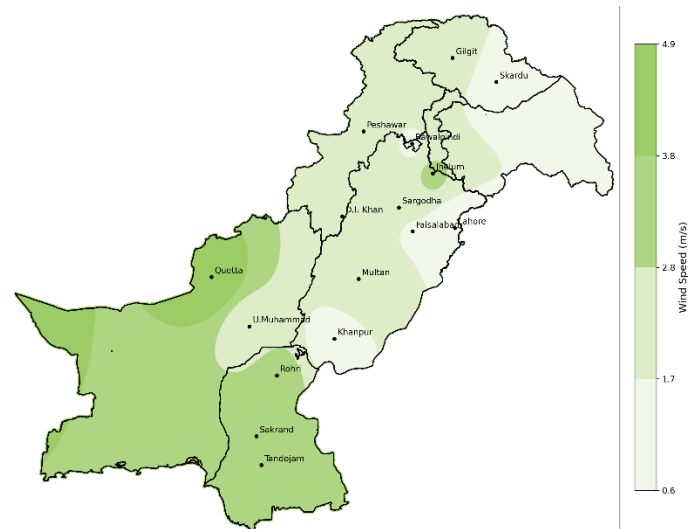


Figure 5: Wind Speed in kilometer per hour (km/h)

2.12 Rohri

Cold and dry weather was observed during the decade; however, weather remained partially cloudy for 06 days. Average relative humidity recorded as 42.8%. Mean day temperature was 25.5°C while night temperature recorded as 10.0°C with 79.8 hours bright sunshine duration. Wind speed recorded as 3.1km/hr with mean wind direction as *north easterly*.

Wheat: *Very good, irrigated.*

2.13 D.I. Khan

Cold and dry weather was observed during the decade; however, weather remained partially cloudy for 02 days. Average relative humidity recorded as 44%. Mean day temperature was 25.1°C while night temperature recorded as 8.7°C with 71.7 hours bright sunshine duration. Wind speed recorded as 2.7km/hr with mean wind direction variable.

2.14 Peshawar

Cold and dry weather was observed during the decade; however, weather remained partially cloudy for 09 days. Average relative humidity recorded as 42%. Mean day temperature was 24.3°C while night temperature recorded as 5.9°C with 66.2 hours bright sunshine duration. Wind speed recorded as 2.6km/hr with mean wind direction as south westerly.

2.15 Skardu

Rain was reported 0.1mm during the decade; however, weather remained partially cloudy for 06 days. Average relative humidity recorded as 50%. Mean day temperature was 7.8°C while night temperature recorded as -4.8°C with 41.6 hours bright sunshine duration. Wind speed recorded as 0.9km/hr with mean wind direction as *southerly*.

2.16 Gilgit

Cold and dry weather was observed during the decade; however, weather remained partially cloudy for 10 days. Average relative humidity recorded as 44.1%. Mean day temperature was 15.0°C while night temperature recorded as -2.1°C with 42.1 hours bright sunshine duration. Wind speed recorded as 2.4km/hr with mean wind direction as *south easterly*.

Ten Days Weather Advisory for Farmers
(11th to 20th February 2025)**3.1 Temperature Forecast**

Normal mean temperature is likely over most parts of the county.

3.2 Wind Forecast

Generally, normal wind patterns may prevail in most of the agricultural plains of the country.

3.3 Rain Forecast**❖ Punjab:**

Mainly cold and dry weather is expected in most parts; however, rain/wind-thunderstorm is likely in some parts of Pothohar region particularly during 2nd half of the decade.

Khyber Pakhtunkhwa:

Mainly cold and dry weather is expected in most parts, however, rain/wind-thunderstorm snow over hills is likely in upper parts during the decade.

❖ Sindh:

Mainly cold and dry weather is expected in most parts of province during the decade.

❖ Baluchistan:

Mainly cold and dry weather is expected in most parts, while very cold in upper areas. However, rain/wind-thunderstorm is likely in northwestern parts of the province during 2nd half of the decade.

❖ Gilgit-Baltistan:

Mainly very cold and dry weather is expected, while rain/wind-thunderstorm/snowfall is likely in Gilgit Baltistan during the decade.

❖ Kashmir:

Mainly very cold and dry weather is expected, while rain/wind-thunderstorm/snowfall is likely in Kashmir during the decade.

3.4 Advisory for Farmers

Farmers are advised to follow the weather forecast to proceed for any field activity.