

Decadal Agromet Bulletin of Pakistan



Highlights...

- ❖ Light rainfall was reported from most parts of the country except Kashmir, central Punjab, lower Khyber Pakhtunkhwa and a few areas of Upper KP .
- ❖ Dry weather was reported from Sindh and coastal areas of Baluchistan
- ❖ Highest amount of rainfall recorded was 28.0 mm at Dir during the last decade.
- ❖ Highest maximum temperature recorded as 48.0°C at Dadu during the last decade.
- ❖ Rain /thunderstorm is expected in the Potohar region, Gilgit-Baltistan, Kashmir, and upper and western parts of KP during the decade.
- ❖ Farmers are advised to view the weather forecast before any field activity.

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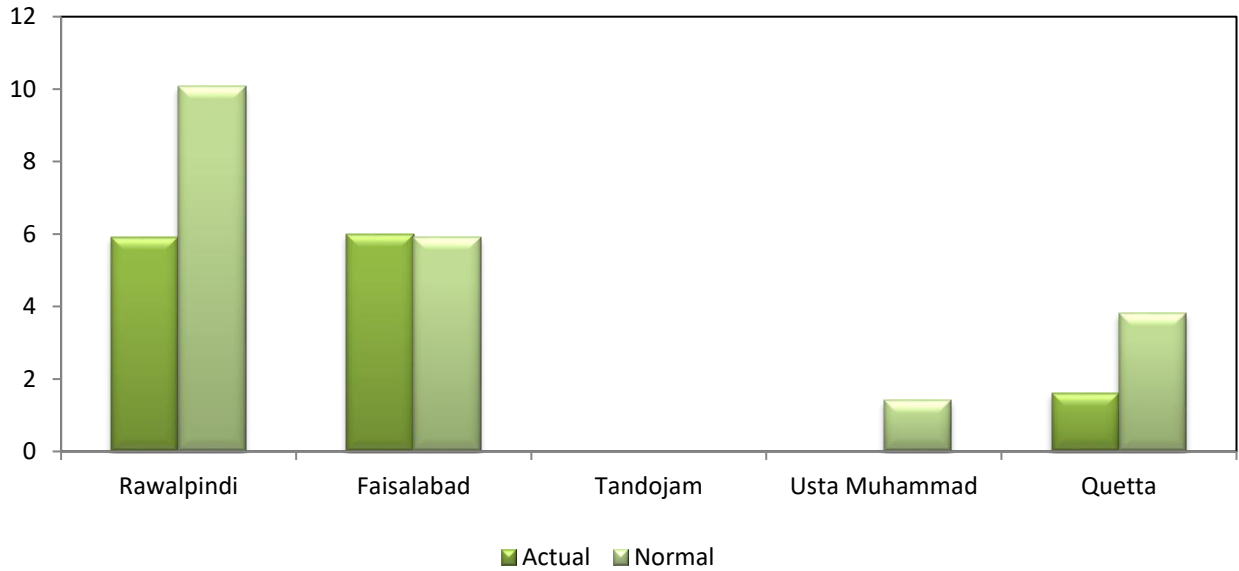
Meteorological Conditions during 1st Decade of May 2024

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	10.1	5.9	-4.2	-0.2	-2.4	26.2	28.0	26.5	24.7	24.3	23.5	22.3	42	80.2	2.1	4.6
2	Faisalabad	5.9	6.0	0.1	1.5	-0.3	30.6	33.8	32.4	31.1	30.4	***	28.2	38	94.6	2.6	5.4
3	Jhelum	12.6	0.0	-12.6	-1.0	-1.5	28.0	29.0	27.9	26.2	24.9	24.7	***	44	71.7	4.6	5.4
4	Lahore	8.9	0.0	-8.9	0.1	-1.2	30.1	30.8	30.0	28.2	27.3	***	25.7	32	78.8	1.5	4.5
5	Sargodha	4.8	20.2	15.4	-16.0	20.7	33.4	32.9	31.1	29.3	28.6	***	***	33	3.2	3.2	4.2
6	Multan	3.3	0.0	-3.3	-0.3	0.6	31.8	***	***	***	***	***	***	30	78.4	5.1	6.3
7	Khanpur	2.8	0.0	-2.8	1.4	0.6	32.5	***	33.1	33.1	32.8	32.5	30.1	32	0.0	***	8.2
8	Tandojam	0.0	0.0	0.0	0.0	-0.8	32.1	***	35.2	33.6	33.2	31.4	30.6	41	***	8.1	8.1
9	Sakrand	0.0	0.0	0.0	-0.8	-0.3	32.9	44.0	***	***	***	***	***	30	108.0	5.8	7.5
11	Rohri	27.4	0.0	-27.4	0.4	0.7	33.8	***	***	***	***	***	***	29	101.7	1.8	5.4
12	D.I Khan	4.2	0.0	-4.2	1.0	0.2	30.4	29.0	28.0	13.1	***	15.3	***	37	83.4	3.7	5.6
13	Peshawar	10.5	0.0	-10.5	0.2	-1.3	26.8	26.5	26.1	24.5	23.8	23.1	22.1	47	80.8	3.9	5.1
14	Usta M.	1.4	0.0	-1.4	0.0	0.0	32.4	38.0	36.7	32.7	***	***	32.0	40	***	2.2	6.3
15	Quetta	3.8	1.6	-2.2	-2.2	1.0	20.3	25.6	23.8	20.0	18.8	18.2	16.6	33	97.9	5.3	5.4
16	Skardu	10.1	0.1	-10.0	1.5	-0.4	16.5	***	***	***	***	***	***	29	86.3	2.7	4.1
17	Gilgit	10.8	0.0	-10.8	3.1	0.4	21.3	***	***	***	***	***	***	40	77.4	3.2	4.5

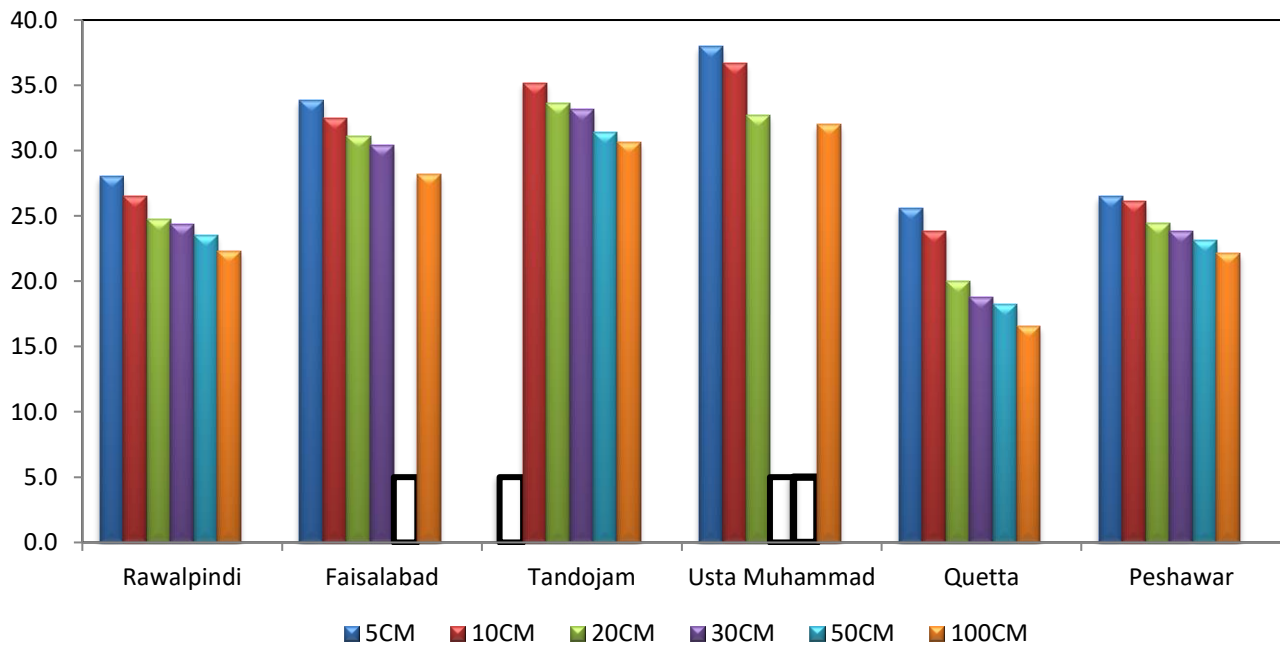
Table-1: Meteorological parameters for selected station of Pakistan. "Dep" in the table stands for difference from climatic normal, i.e. actual value minus normal. The climatic normally used in the Bulletin is extracted from the 2007 - 2016 observed data. 'ETo' stands for reference crop Evapotranspiration***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

Graph at RAMCs during May 2024

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 available.

Past Weather (1st to 10th May 2024)

Light rainfall was reported from most parts of the country except Kashmir, central Punjab, lower Khyber Pakhtunkhwa and a few areas of Upper KP whereas dry weather was reported from Sindh and coastal areas of Baluchistan.

1.1 Punjab

Light rainfall was reported from most parts of the province except the central part where moderate rain was observed. The decadal maximum temperature dropped below normal by 2.1 °C and the minimum temperature rose by 2.4°C in the province. Values of relative humidity, sunshine hour, wind speed & ETo were recorded 36%,58.1hrs, 3.2 km/hr and 5.5mm/day respectively.

1.2 Sindh

Dry weather was reported in the province. The decadal maximum and minimum temperatures remained near normal in the province. Whereas values of relative humidity, sunshine hour, wind speed & ETo were recorded as 33%, 104.9hrs, 5.2 km/hr and 7.0 mm/day respectively.

1.3 Khyber Pakhtunkhwa

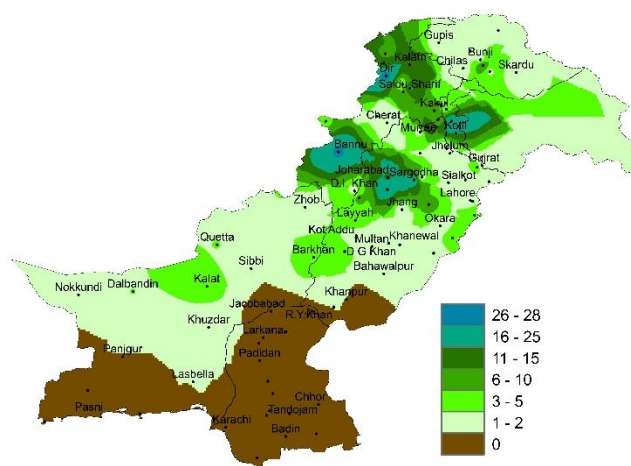
Light to moderate rain was reported from the province. The decadal maximum and minimum temperatures were observed near normal in the province. Whereas values of relative humidity, sunshine hour, wind speed & ETo were recorded as 42%,82.1 hrs, 3.8 km/hr and 5.4 mm/day respectively.

1.4 Baluchistan

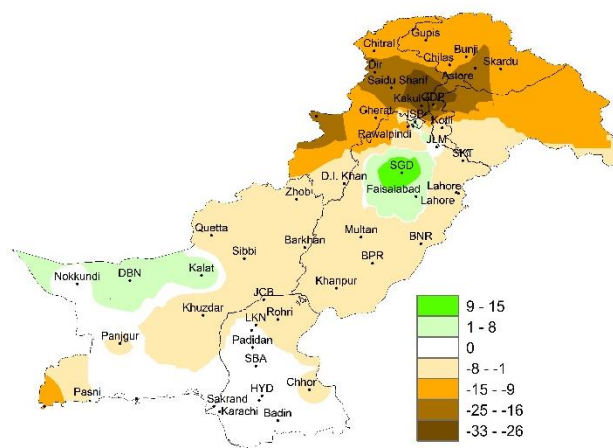
Light rain was reported from the province. Decadal maximum temperature was observed below normal by 1.1 °C whereas near normal minimum temperature was observed in the province. Values of relative humidity, sunshine hour, wind speed & ETo were recorded as 36%, 97.9 hrs, 3.8km/hr and 5.9 mm/day respectively.

1.5 Gilgit-Baltistan and Azad Jammu & Kashmir.

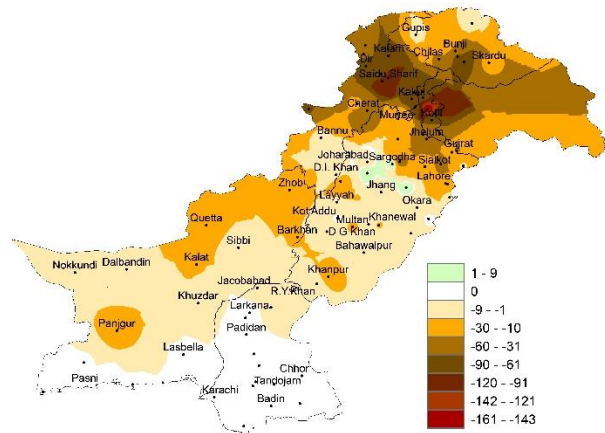
Light rain was reported from Gilgit-Baltistan while moderate rain was observed in Kashmir. Decadal maximum temperature rose from normal by 2.3 degree and the minimum temperature remained normal in the province. Whereas values of relative humidity, sunshine hour, wind speed & ETo were recorded as 34%, 81.9hrs, 3.0 km/hr and 4.3mm/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 May 2024)

2.1 RAMC, Rawalpindi (Potohar region)

Rainfall reported as 5.9 mm during the decade; however, weather remained cloudy for 06 days. Average relative humidity recorded as 42%. Mean day temperature was 35.1°C while night temperature recorded as 17.2°C with 80.2 hours bright sunshine duration. Wind speed recorded as 2.1 km/hr with mean wind direction *north westerly*.

2.2 RAMC, Faisalabad (Central Punjab)

Rainfall reported as 6.0 mm during the decade; however, weather remained cloudy for 05 days. Average relative humidity recorded as 38%. Mean day temperature was 39.2°C while night temperature recorded as 22.0°C with 94.6 hours bright sunshine duration. Wind speed recorded as 2.6 km/hr with mean wind direction *westerly*.

Cotton: *Very good, Third leaf completed.*

2.3 RAMC, Tandojam (Lower Sindh)

The weather is dry; however, weather remained cloudy for 01 day. Average relative humidity recorded as 40.7%. Mean day temperature was 41.1°C while night temperature recorded as 23.0°C. Wind speed recorded as 8.1 km/hr with mean wind direction *south westerly*.

Cotton: *Sowing is expected.*

2.4 RAMC, Usta Muhammad (Eastern Baluchistan)

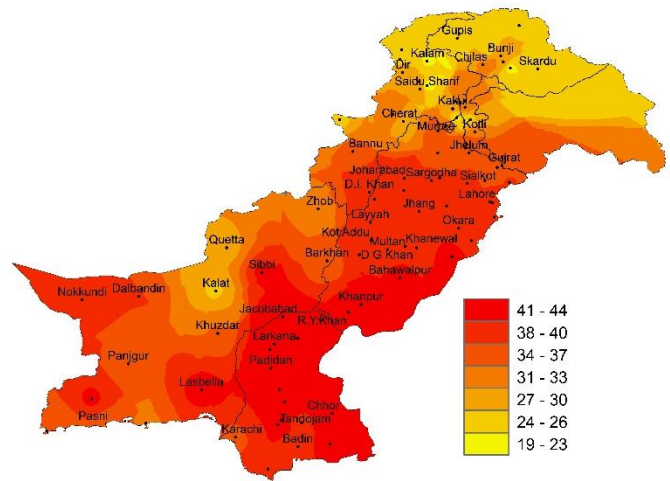
The weather is dry; however, weather remained cloudy for 02 days. Average relative humidity recorded as 39.7%. Mean day temperature was 42.7°C while night temperature recorded as 22.1°C. Mean wind direction *south easterly*.

Wheat: *Good, Maturity stage.*

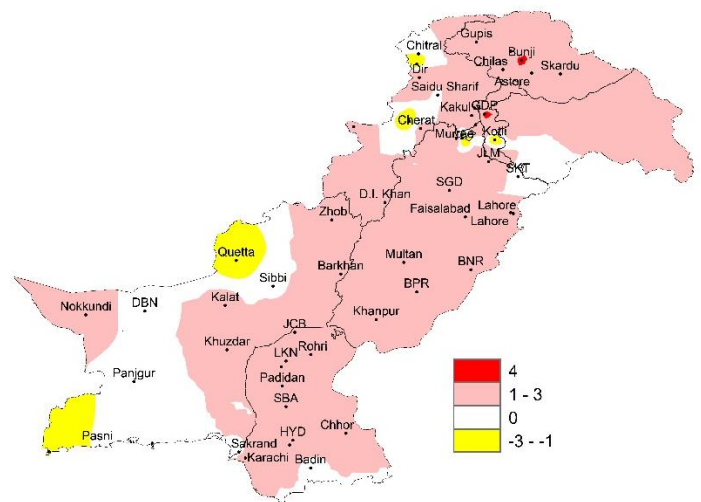
2.5 RAMC, Quetta (Northern Baluchistan)

Rainfall reported as 1.6 mm during the decade; however, weather remained cloudy for 08 days. Average relative humidity recorded as 33%. Mean day temperature was 27.2°C while night temperature recorded as 13.4°C with 97.9 hours bright sunshine duration. Wind speed recorded as 5.3 km/hr with mean wind direction *southerly*.

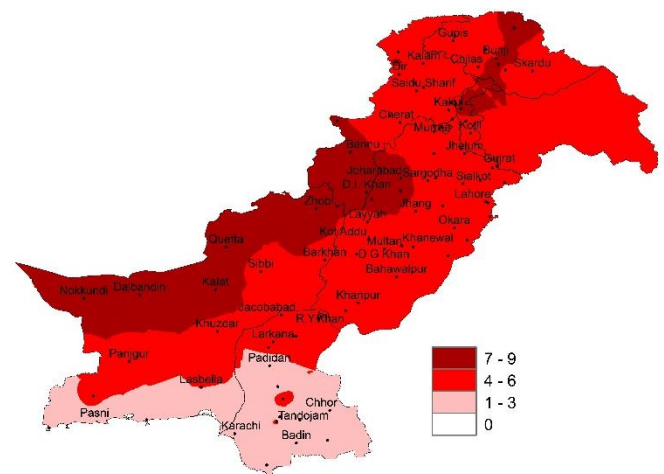
Wheat: *Good, Maturity stage.*



I. Actual max-temperature



II. Departure of max-temperature from Normal



III. Departure of max-temperature from Previous Decade

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

2(b) **Past Weather or Sub-Regional Agricultural Plains (1st to 10th May 2024)**

2.6 **Jhelum**

The weather is dry; however, weather remained cloudy for 03 days. Average relative humidity recorded as 44%. Mean day temperature was 35.7°C while night temperature recorded as 20.2°C with 71.7 hours bright sunshine duration. Wind speed recorded as 4.6 km/hr with mean wind direction *variable*.

2.7 **Lahore**

Rainfall reported as 0.01 mm during the decade; however, weather remained cloudy for 04 days. Average relative humidity recorded as 32%. Mean day temperature was 37.6°C while night temperature recorded as 22.6°C with 78.8 hours bright sunshine duration. Wind speed recorded as 1.5 km/hr with mean wind direction *north easterly*.

2.8 **Sargodha**

Rainfall reported as 20.2 mm during the decade; however, weather remained cloudy for 04 days. Average relative humidity recorded as 33%. Mean day temperature was 38.6°C while night temperature recorded as 22.5°C with 77.1 hours bright sunshine duration. Wind speed recorded as 3.2 km/hr with mean wind direction *easterly*.

2.9 **Multan**

The weather was reported dry; however, weather remained cloudy for 07 days. Average relative humidity recorded as 30%. Mean day temperature was 39.3°C while night temperature recorded as 24.3°C with 78.4 hours bright sunshine duration. Wind speed recorded as 5.1 km/hr with mean wind direction *southerly*.

2.10 **Khanpur**

The weather was reported dry; however, weather remained cloudy for 03 days. Average relative humidity recorded as 32%. Mean day temperature was 42.0°C while night temperature recorded as 23.0°C. Mean wind direction *south westerly*.

2.11 **Sakrand**

The weather was reported dry; however, weather remained cloudy for 02 days. Average relative humidity recorded as 30%. Mean day temperature was 41.7°C while night temperature recorded as 24.1°C with 110.5 hours bright sunshine duration. Wind speed recorded as 5.8 km/hr with mean direction as *south easterly*.

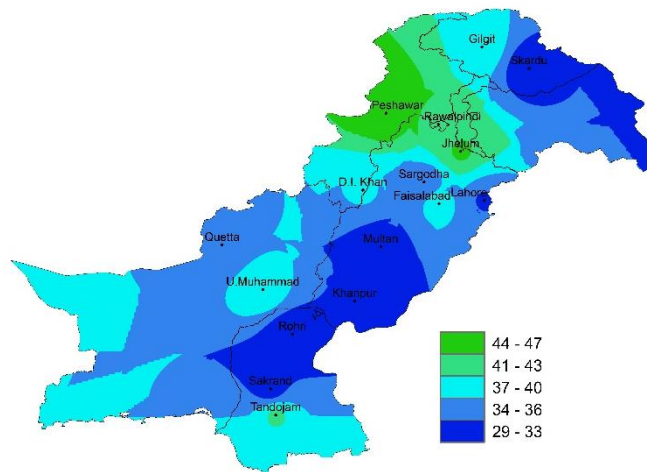


Figure.3: Relative Humidity in Percentage (%)

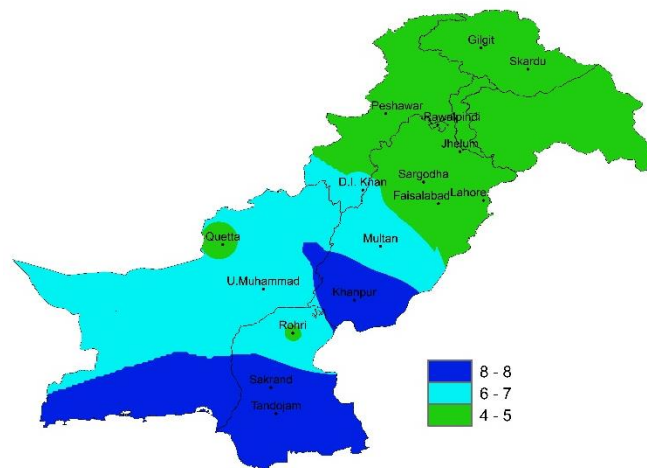


Figure.4: Reference Crop Evapotranspiration ET0 (mm/day)

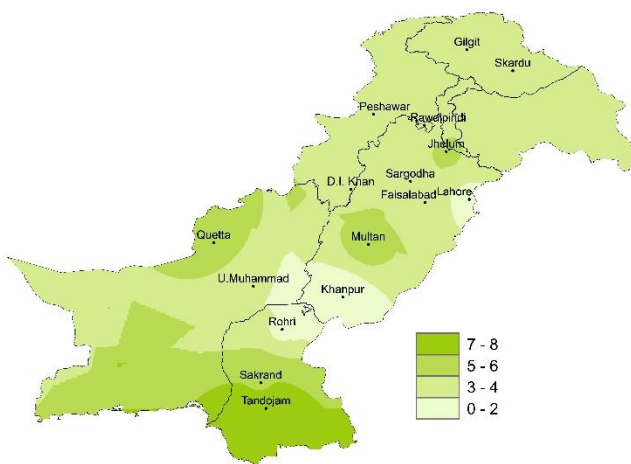


Figure 5: Wind Speed in kilometer per hour (km/h)

2.12 Rohri

The weather was reported dry; however, weather remained cloudy for 03 days. Average relative humidity recorded as 29%. Mean day temperature was 41.9°C while night temperature recorded as 25.6°C with 101.7 hours bright sunshine duration. Wind speed recorded as 1.8 km/hr with mean direction as *south westerly*.

2.13 D.I. Khan

Rainfall reported as 0.01 mm during the decade; however, weather remained cloudy for 04 days. Average relative humidity recorded as 37%. Mean day temperature was 38.5°C while night temperature recorded as 22.2°C with 83.4 hours bright sunshine duration. Wind speed recorded as 3.7 km/hr with mean direction as *variable*.

2.14 Peshawar

Rainfall reported as 0.01 mm during the decade; however, weather remained cloudy for 09 days. Average relative humidity recorded as 47%. Mean day temperature was 34.6°C while night temperature recorded as 18.9°C with 80.8 hours bright sunshine duration. Wind speed recorded as 3.9 km/hr with mean wind direction as *north westerly*.

2.15 Skardu

Rainfall reported as 0.01 mm during the decade; however, weather remained cloudy for 03 days during the decade. Average relative humidity recorded as 29%. Mean day temperature was 24.5°C while night temperature recorded as 8.4°C with 86.3 hours bright sunshine duration. Wind speed recorded as 2.7 km/hr with mean wind direction as *north easterly*.

2.16 Gilgit

Rainfall reported as 0.01 mm during the decade; however, weather remained cloudy for 10 days during the decade. Average relative humidity recorded as 39.6%. Mean day temperature was 31.0°C while night temperature recorded as 11.5°C with 77.4 hours bright sunshine duration. Wind speed recorded as 3.2 km/hr with mean wind direction as *north easterly*.

Seven Days Weather Advisory for Farmers
(13th to 20th May 2024)**3.1 Temperature Forecast**

Above normal mean temperature is likely over most parts of the country.

3.2 Wind Forecast

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

3.3 Rain Forecast

- ❖ **Punjab:** Rain/thunderstorm is expected in Potohar region during the last days of decade whereas dry and hot weather is expected in most parts of the province.
- ❖ **Khyber Pakhtunkhwa:** Rain thunderstorm is expected in the upper and western parts of the province while dry and hot weather is expected elsewhere during the decade.
- ❖ **Sindh:** Mainly dry and hot weather is expected in Sindh province during the decade.
- ❖ **Baluchistan:** Mainly dry and hot weather is expected in most parts of the province.
- ❖ **Gilgit-Baltistan:** Rain is expected during the last five days of the decade.
- ❖ **Kashmir:** Rain is expected during the last five days of the decade.

3.4 Advisory for Farmers

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