

Decadal Agromet Bulletin of Pakistan



Highlights...

- ❖ Light to moderate amount of rainfall was reported from almost all over the country while in upper KP heavy showers were also reported.
- ❖ The highest amount of rainfall recorded was 106 mm at Malamjabba during the last decade.
- ❖ Highest maximum temperature was recorded as 49.0°C at Turbat during the last decade.
- ❖ Mainly hot and dry weather is expected in most parts of the country. However, Rain/wind thunderstorm is expected in Punjab, KP, GB, and Kashmir during the middle of the decade.
- ❖ Farmers are advised to view the weather forecast before any field activity.

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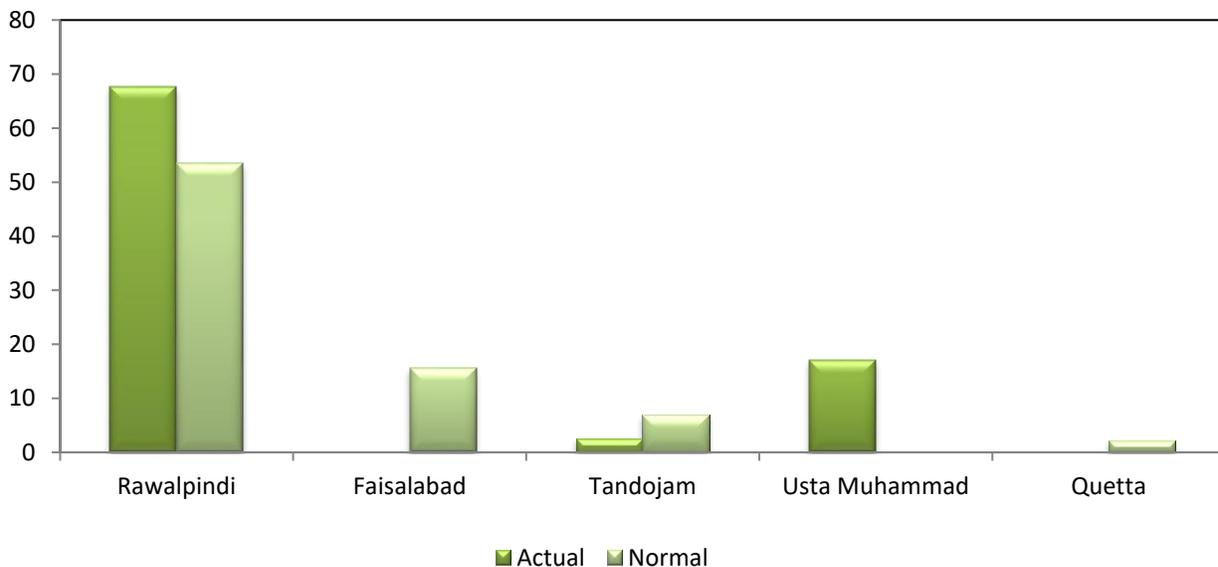
Meteorological Conditions during 3rd Decade of June 2024

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	53.5	67.6	14.1	3.6	0.5	32.9	34.9	34.0	32.2	31.5	30.5	28.8	51	90.8	2.6	5.4
2	Faisalabad	15.6	0.0	-15.6	0.4	1.0	34.5	39.7	38.7	38.0	37.4	***	35.7	47	98.7	4.1	6.6
3	Jhelum	26.9	1.2	-25.7	1.5	3.7	34.8	38.6	37.2	35.5	34.1	33.7	***	45	83.2	4.5	6.3
4	Lahore	18.3	24.0	5.7	0.9	0.3	34.0	36.3	35.7	34.3	34.0	***	31.2	45	90.5	2.2	5.7
5	Sargodha	27.1	0.0	-27.1	1.9	0.7	35.3	39.6	38.3	36.8	35.6	***	***	44	72.6	3.9	6.0
6	Multan	7.1	12.0	4.9	0.0	-1.0	35.3	***	***	***	***	***	***	53	91.6	4.8	6.7
7	Khanpur	2.8	0.0	-2.8	-0.2	0.7	35.3	***	39.0	39.0	39.0	39.0	36.4	49	77.7	***	7.1
8	Tandojam	7.1	2.6	-4.5	1.9	1.0	34.0	***	38.3	35.9	34.4	34.2	34.6	59	***	4.2	6.1
9	Sakrand	17.0	12.0	-5.0	-0.3	1.7	35.3	45.7	***	***	***	***	***	53	91.6	4.8	6.6
11	Rohri	1.9	27.0	25.1	-0.6	1.7	36.1	***	***	***	***	***	***	45	97.4	3.2	6.4
12	D.I Khan	7.9	0.0	-7.9	1.6	2.5	34.8	36.2	35.4	13.1	***	23.3	***	47	88.8	3.8	6.4
13	Peshawar	7.6	0.0	-7.6	0.5	-1.5	33.0	36.0	34.6	32.4	31.4	30.1	28.6	46	83.7	4.7	6.4
14	Usta M.	0.0	17.0	17.0	0.0	0.0	35.9	39.6	39.8	39.3	***	***	38.0	40	***	4.1	7.2
15	Quetta	2.2	0.0	-2.2	-1.9	0.3	27.2	36.1	33.7	30.5	29.5	29.1	26.2	35	86.3	5.2	6.0
16	Skardu	3.7	0.0	-3.7	-0.7	0.6	22.4	***	***	***	***	***	***	35	73.6	0.1	3.8
17	Gilgit	3.7	2.6	-1.1	-0.9	3.0	26.6	***	***	***	***	***	***	42	56.4	3.7	4.8

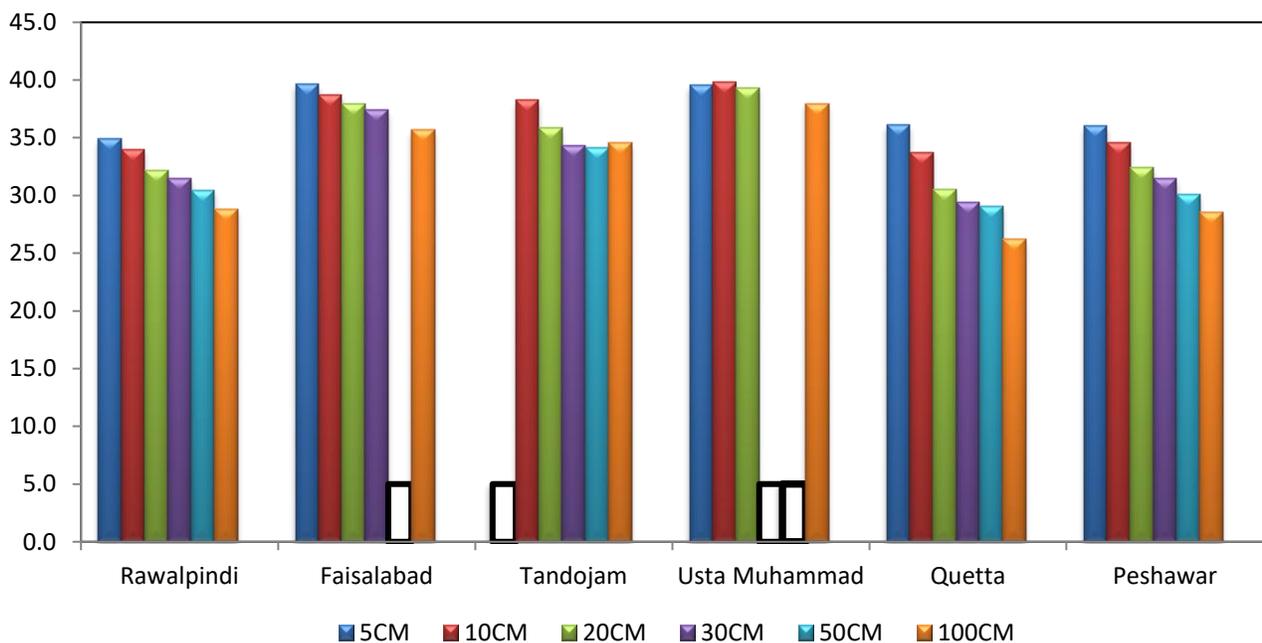
Table-1: Meteorological parameters for selected station of Pakistan. "Dep" in the table stands for difference from climatic normal, i.e. actual value minus normal. The climatic normally used in the Bulletin is extracted from the 2007 - 2016 observed data. 'ETo' stands for reference crop Evapotranspiration***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

Graph at RAMCs during June 2024

Precipitation(mm) during 3rd 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 (21st to 30th June 2024)

Light to moderate amount of rainfall was reported from almost all over the country while in upper KP heavy showers were also reported.

1.1 Punjab

Light to moderate rainfall were reported in the province. The decadal maximum temperature rose above normal by 1.1 °C and minimum temperature were observed near normal in the province. Whereas values of relative humidity, sunshine hour, wind speed & ETo were recorded 48%, 86.4hrs, 3.6km/hr and 6.2mm/day respectively.

1.2 Sindh

Light to moderate rainfall was reported from different parts of the province. The decadal maximum remained near normal while minimum temperatures rose above normal by 1.4 °C in the province. Whereas values of relative humidity, sunshine hour, wind speed & ETo were recorded as 52%, 94.5hrs, 4.0km/hr and 6.3mm/day respectively.

1.3 Khyber Pakhtunkhwa

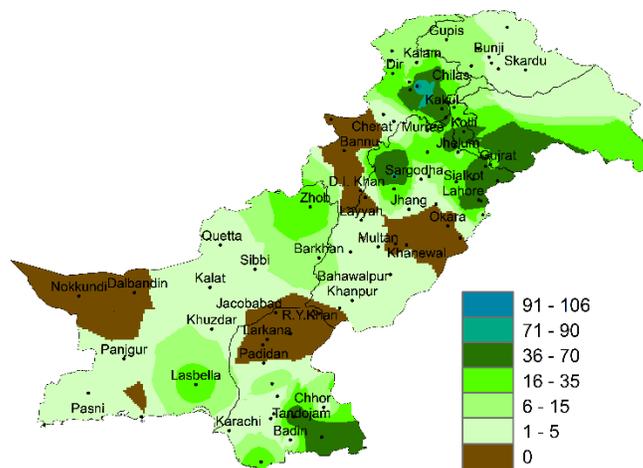
Light to moderate rainfall with isolated heavy rain at isolated places in upper KP was reported from the province. The decadal maximum rose above normal by 1.0 °C while minimum temperatures remained near normal in the province. Whereas values of relative humidity, sunshine hour, wind speed & ETo were recorded as 47%, 86.2hrs, 4.2km/hr and 6.4mm/day respectively.

1.4 Baluchistan

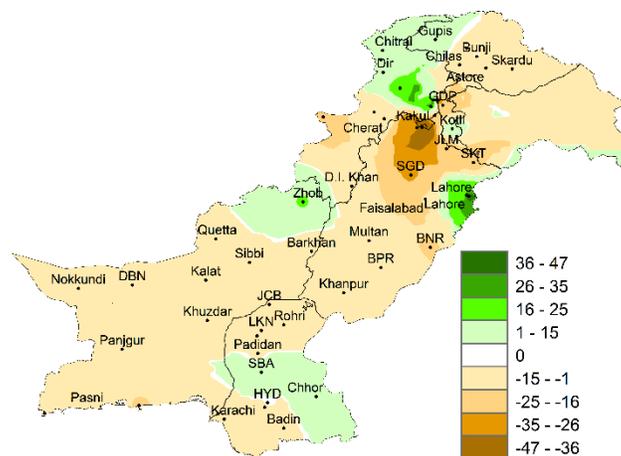
Light to moderate rainfall was reported north western and southern parts of the province. The decadal maximum and minimum temperature was observed near normal in the province. Whereas values of relative humidity, sunshine hour, wind speed & ETo were recorded as 38%, 86.3hrs, 4.6km/hr and 6.6 mm/day respectively.

1.5 Gilgit-Baltistan and Azad Jammu & Kashmir.

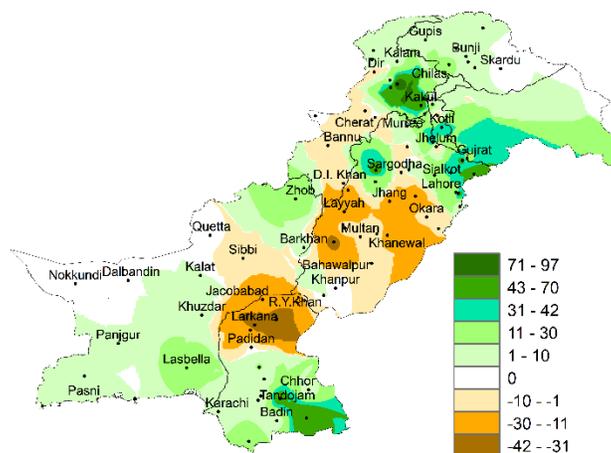
Light to moderate rain was reported from the province. The decadal maximum temperature was observed near normal and minimum temperature rose above normal 1.7°C in the province Whereas values of relative humidity, sunshine hour, wind speed & ETo were recorded as 39%, 65hrs, 1.9km/hr and 4.3mm/day respectively.



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 (21st to 30th June 2024)**

2.1 RAMC, Rawalpindi (Potohar region)

Rainfall reported as 67.6 mm during the decade; however, weather remained cloudy for 10 days. Average relative humidity recorded as 37%. Mean day temperature was 41°C while night temperature recorded as 24.7°C with 90.8 hours bright sunshine duration. Wind speed recorded as 2.6 km/hr with mean wind direction *variable*.

2.2 RAMC, Faisalabad (Central Punjab)

The weather was dry during the decade; however, weather remained cloudy for 09 days. Average relative humidity recorded as 47%. Mean day temperature was 40.4°C while night temperature recorded as 28.6°C with 98.7 hours bright sunshine duration. Wind speed recorded as 4.1 km/hr with mean wind direction *south easterly*.

Cotton: *Very good, Flowering completed.*

2.3 RAMC, Tandojam (Lower Sindh)

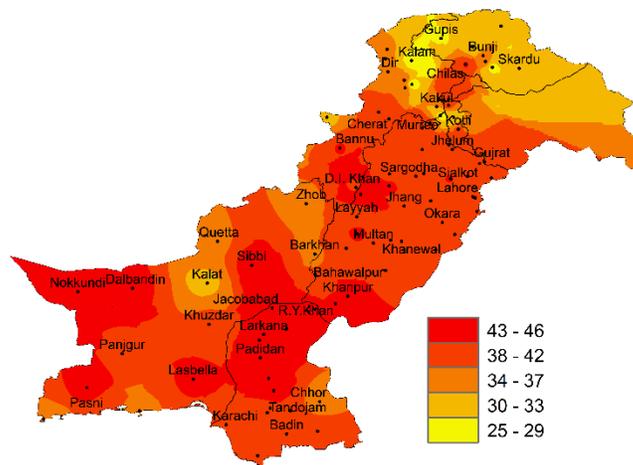
Rainfall reported as 2.6 mm during the decade; however, weather remained cloudy for 08 days. Average relative humidity recorded as 59%. Mean day temperature was 40.1°C while night temperature recorded as 27.9°C. Wind speed recorded as 4.2 km/hr with mean wind direction *north easterly*. **Cotton:** *Good, Budding*

2.4 RAMC, Usta Muhammad (Eastern Baluchistan)

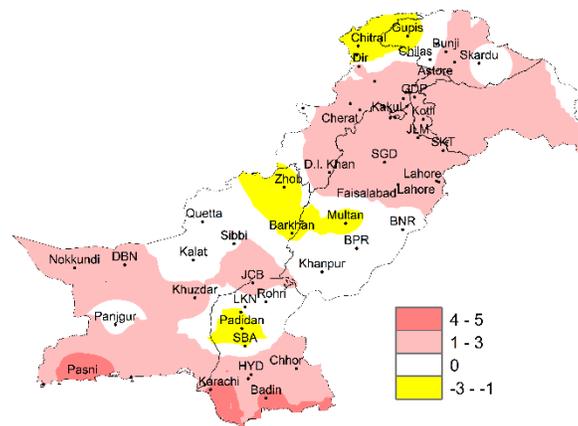
Rainfall reported as 17.0 mm during the decade; however, weather remained cloudy for 06 days. Average relative humidity recorded as 40%. Mean day temperature was 44.3°C while night temperature recorded as 27.4°C. Wind speed recorded as 4.1 km/hr with mean wind direction *north easterly*. **Rice:** *Good, Field preparing*

2.5 RAMC, Quetta (Northern Baluchistan)

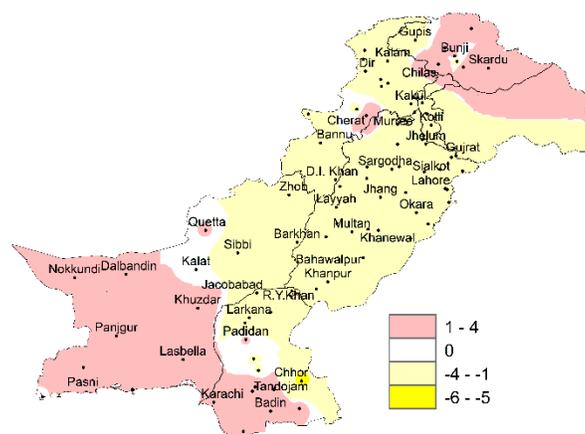
Rainfall reported as 0.01 mm during the decade; however, weather remained cloudy for 10 days. Average relative humidity recorded as 35%. Mean day temperature was 34.7°C while night temperature recorded as 19.7°C with 86.3 hours bright sunshine duration. Wind speed recorded as 5.2 km/hr with mean wind direction *south westerly*.



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 (21st to 30th June 2024)

2.6 Jhelum

Rainfall reported as 1.2 mm during the decade; however, weather remained cloudy for 09 days. Average relative humidity recorded as 45%. Mean day temperature was 40.9°C while night temperature recorded as 28.6°C with 83.2 hours bright sunshine duration. Wind speed recorded as 4.5 km/hr with mean wind direction *south westerly*.

2.7 Lahore

Rainfall reported as 24.0 mm during the decade; however, weather remained cloudy for 06 days. Average relative humidity recorded as 45%. Mean day temperature was 39.6°C while night temperature recorded as 28.3°C with 90.5 hours bright sunshine duration. Wind speed recorded as 2.2 km/hr with mean wind direction *north easterly*.

2.8 Sargodha

The weather was dry during the decade; however, weather remained cloudy for 09 days. Average relative humidity recorded as 44%. Mean day temperature was 42°C while night temperature recorded as 28.5°C with 72.6 hours bright sunshine duration. Wind speed recorded as 3.9 km/hr with mean wind direction *south westerly*.

2.9 Multan

The weather was dry during the decade; however, weather remained cloudy for 09 days. Average relative humidity recorded as 46%. Mean day temperature was 40.7°C while night temperature recorded as 29.4°C with 76.9 hours bright sunshine duration. Wind speed recorded as 5.8 km/hr with mean wind direction *south westerly*.

2.10 Khanpur

The weather was dry during the decade; however, weather remained cloudy for 05 days. Average relative humidity recorded as 49%. Mean day temperature was 41.8°C while night temperature recorded as 28.8°C with 77.7 hours bright sunshine duration. Mean wind direction *variable*.

2.11 Sakrand

Rainfall reported as 12.0 mm during the decade; Average relative humidity recorded as 53%. Mean day temperature was 41.6°C while night temperature recorded as 28.9°C with 91.6 hours bright sunshine duration. Wind speed recorded as 4.8 km/hr with mean direction as *variable*.

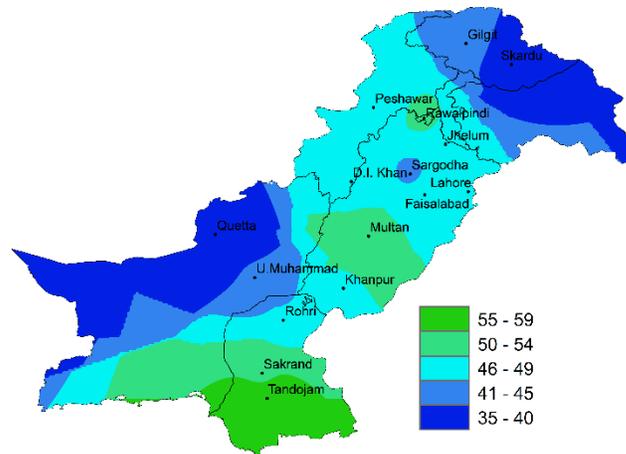


Figure.3: Relative Humidity in Percentage (%)

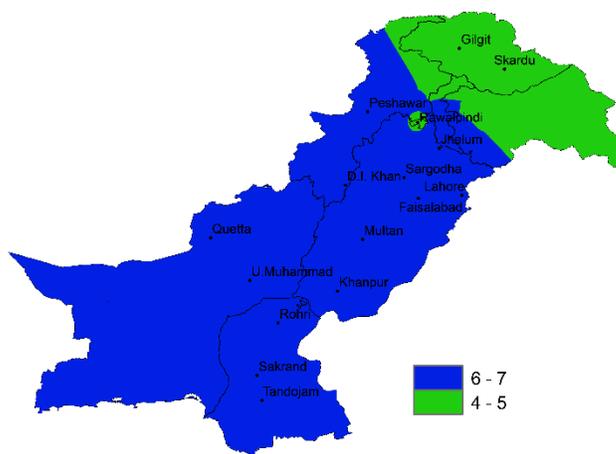


Figure.4: Reference Crop Evapotranspiration ET0 (mm/day)

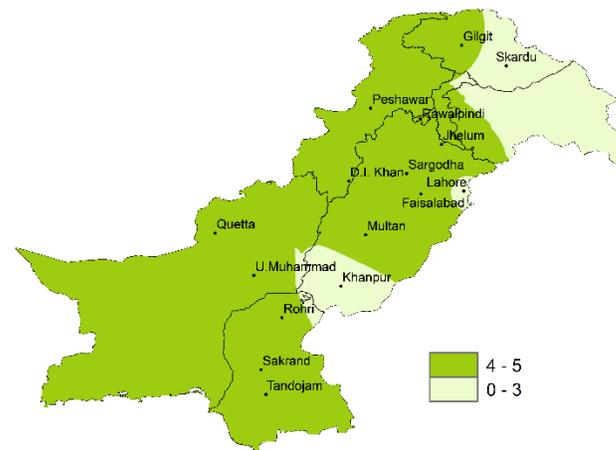


Figure 5: Wind Speed in kilometer per hour (km/h)

2.12 Rohri

Rainfall reported as 27.0 mm during the decade; however, weather remained cloudy for 04 days. Average relative humidity recorded as 45%. Mean day temperature was 42.5°C while night temperature recorded as 29.7°C with 97.4 hours bright sunshine duration. Wind speed recorded as 3.2 km/hr with mean direction as *variable*.

2.13 D.I. Khan

The weather was dry during the decade; however, weather remained cloudy for 04 days. Average relative humidity recorded as 47%. Mean day temperature was 41.3°C while night temperature recorded as 28.2°C with 88.8 hours bright sunshine duration. Wind speed recorded as 3.8 km/hr with mean wind direction as *south easterly*

2.14 Peshawar

Rainfall reported as 0.01 mm during the decade; however, weather remained cloudy for 08 days. Average relative humidity recorded as 46%. Mean day temperature was 40.8°C while night temperature recorded as 25.2°C with 83.7 hours bright sunshine duration. Wind speed recorded as 4.7 km/hr with mean wind direction as *north westerly*.

2.15 Skardu

The weather was dry during the decade; however, weather remained cloudy for 07 days during the decade. Average relative humidity recorded as 35%. Mean day temperature was 30.1°C while night temperature recorded as 14.6°C with 73.6 hours bright sunshine duration. Wind speed recorded as 0.1 km/hr with mean wind direction as *east southeasterly*.

2.16 Gilgit

Rainfall reported as 2.6 mm during the decade; however, weather remained cloudy for 10 days during the decade. Average relative humidity recorded as 42%. Mean day temperature was 34.7°C while night temperature recorded as 18.4°C with 56.4 hours bright sunshine duration. Wind speed recorded as 3.7 km/hr with mean wind direction as *variable*

Decade Weather Advisory for Farmers
(1st to 10th July 2024)**3.1 Temperature Forecast**

Above normal mean temperature is likely over most parts of the country including upper Khyber Pakhtunkhwa, Gilgit Baltistan and Kashmir.

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 Hot and Dry weather is expected in most parts of the province. However, Rain, wind/thunderstorm is expected in Punjab during middle of the decade.
- ❖ **Khyber Pakhtunkhwa:** Mainly Hot and Dry weather is expected in most parts of the province. However, Rain, wind/thunderstorm is expected during middle of the decade.
- ❖ **Sindh:** Mainly hot and dry weather is expected in Sindh province during the decade.
- ❖ **Baluchistan:** Mainly dry weather is expected in most parts of the province.
- ❖ **Gilgit-Baltistan:** Rain, wind/thunderstorm is expected at isolated places during the decade.
- ❖ **Kashmir:** Rain, wind/thunderstorm is expected during the decade.

3.4 Advisory for Farmers

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