

# Weekly Weather and Crop Bulletin for Pakistan

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Rainfall Distribution (mm) during the Previous Week (09<sup>th</sup> – 15<sup>th</sup> September 2024)

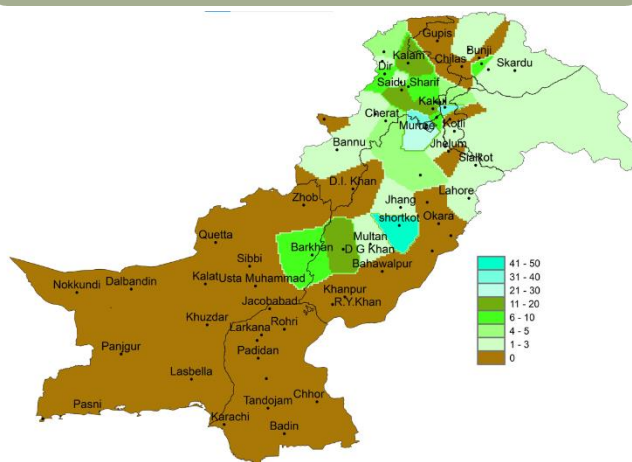


Figure 1: Rainfall.

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## Highlights of Past Weather (09<sup>th</sup> – 15<sup>th</sup> September 2024)

- Light to moderate rain (isolated heavy rain from central Punjab) was reported from throughout the country while hot & dry weather remained in Sindh during the previous week.
- Above normal daily maximum temperatures were observed in most parts of the country whereas normal to below normal in Lower Sindh & most parts of Balochistan.
- Normal to above normal daily minimum temperatures were observed in most parts of the country whereas normal to below normal was reported in southeast & southwest of Balochistan.
- Normal to above normal mean daily temperatures were observed in most parts of the country whereas normal in different parts and below normal in southeast Balochistan.

**Patron-in-Chief:** Mahr Sahibzad Khan (Director General)

**Editor-in-Chief:** Asma Jawad Hashmi (Director)

**Editor:** Irshad Ali (Assistant Meteorologist)

## **Past Weather of Provinces** **(09th – 15th September 2024)**

### **Punjab**

Light to moderate rainfall (isolated from central punjab) was reported from the province during the previous week. Weekly maximum and minimum temperatures recorded as 36.2°C & 25.6°C respectively. For the recent week on average 111.5 growing degree days were accumulated. Average relative humidity recorded as 67% and wind speed in the morning/evening recorded as 3.7/2.9 Knots. Maximum rainfall was reported as 49.00 mm from Shorkot. However, the highest maximum temperature was recorded as 41.1°C at Bahawalpur.

### **Baluchistan**

Light rainfall was reported at isolated places from northeast of the province. Weekly maximum and minimum temperatures recorded as 34.5°C & 21.6°C respectively. For the recent week on average 91.5 growing degree days were accumulated. Average relative humidity recorded 41% and wind speed in the morning/evening recorded as 1.2/6.4 Knots. Maximum rainfall was reported as 9.00 mm from Barkhan. However, highest maximum temperature was recorded as 44.5°C at Turbat.

### **Khyber Pakhtunkhwa**

Light to moderate rainfall was reported from the province. Weekly maximum and minimum temperatures recorded as 32.6°C & 19.4°C respectively. For the recent week on average 77.1 growing degree days were accumulated. Average relative humidity recorded as 65% and wind speed in the morning/evening recorded as 0.7/2.2 Knots. Maximum rainfall was reported as 17.00 mm from Kakul. However, the highest maximum temperature recorded as 40.0°C at Peshawar.

### **Sindh**

Dry weather was reported from Sindh. Weekly maximum and minimum temperatures recorded as 36.4°C & 26.2°C respectively. For the recent week, on average 114.3 growing degree days were accumulated. Average relative humidity recorded as 69% and wind speed in the morning/evening

recorded as 4.6/6.0 Knots. The highest maximum temperature recorded as 41.0°C at Dadu.

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

Light rainfall was reported from Gilgit Baltistan and Kashmir during the previous week. Weekly maximum and minimum temperatures recorded as 31.5°C & 16.8°C respectively. For the recent week on average 64.2 growing degree days were accumulated. Average relative humidity recorded as 57%. and wind speed recorded in the morning/evening as 0.5/1.5. The highest rainfall was reported as 40.00 mm from Garhi Dopatta. However, the highest maximum temperature recorded as 38.0°C at Chilas.

**Past Weather for Major Agricultural Plains****(09th – 15th September 2024)****Rawalpindi (Potohar region)**

Rainfall reported as 27.70 mm from Rawalpindi during the week; however, cloudiness in the morning/evening recorded as 1.7/0.9 Oktas, average relative humidity observed as 69%. Mean maximum time temperature was recorded as 35.6°C and for the recent week 93.8 growing degree days were accumulated. Wind speed recorded in the morning/evening as 0.9/0.9 Knots. The highest maximum temperature was recorded as 37.3°C.

**Faisalabad (Central Punjab)**

Dry weather reported from Faisalabad during the week; however, cloudiness in the morning/evening recorded 0.0/3.1 Oktas while, average relative humidity observed as 67%. Mean maximum time temperature recorded 37.2°C & for the recent week 118.9 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.1/2.3 Knots. The highest maximum temperature was recorded as 38.0°C.

**Tandojam (Lower Sindh)**

Dry weather reported from Tandojam during the week; however, cloudiness in the morning/evening observed clear while, average relative humidity observed as 77%. Mean maximum time temperature recorded as 35.5°C & for the recent week 101.5 growing degree days accumulated. Wind speed recorded in the morning/evening as 5.1/8.5 Knots. The highest maximum temperature was recorded as 36.0°C.

**Usta Muhammad (Eastern Baluchistan)**

Dry weather reported from Usta Muhammad during the week; however, cloudiness in the morning/evening recorded as 0.5/0.7. Average relative humidity observed as 72%. Mean maximum time temperature recorded as 36.1°C & for the recent week 178.5 growing degree days accumulated. Wind speed recorded in the morning/evening as 2.2/2.5 Knots. The highest maximum temperature was recorded as 37.5°C.

**Quetta (Northern Baluchistan)**

Dry weather reported from Quetta during the week; however, cloudiness in the morning/evening recorded as 0.0/0.7 Oktas while, average relative humidity observed as 35%. Mean maximum time temperature recorded as 31.0°C & for the recent week 123.0 growing degree days accumulated. Wind speed recorded in the morning/evening as

1.2/3.1 Knots. The highest maximum temperature was recorded as 32.5°C.

**Past Weather for Sub-Regional Agricultural Plains (09th – 15th September 2024)****Multan**

Rainfall reported as 2.00 mm from Multan during the week; however, cloudiness in the morning/evening recorded as 0.4/2.9 Oktas. Average relative humidity observed as 62%. Mean maximum time temperature recorded as 36.5°C & for the recent week 117.2 growing degree days accumulated. Wind speed recorded in the morning/evening as 6.3/5.4 Knots.

**Lahore**

Rainfall reported as 2.00 mm from Lahore during the week; cloudiness in the morning/evening recorded as 0.0/4.7 Oktas, average relative humidity observed as 69%. Mean maximum time temperature recorded as 36.0°C & for the recent week 111.7 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.3/1.4 Knots.

**Zhob**

Dry weather reported from Zhob during the week; however, cloudiness in the morning/evening recorded as 0.0/2.0 Oktas. Average relative humidity observed as 37%. Mean maximum time temperature recorded as 34.5 °C & for the recent week 91.5 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.9/2.6 Knots.

**Murree**

Rainfall reported as 6.00 mm from Murree during the week; however, cloudiness in the morning/evening recorded as 2.5/3.1 Oktas while, average relative humidity observed as 69%. Mean maximum time temperature recorded as 24.4°C & for the recent week 32.9 growing degree days accumulated. Wind speed recorded in the morning/evening as 3.3/1.7 Knots.

**D.I. Khan**

Dry weather reported from D.I. Khan during the week; however, cloudiness observed in the morning/evening recorded as 0.8/0.7. Average relative humidity observed as 65%. Mean maximum time temperature recorded as 37.5°C & for the recent week 120.8 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.3/0.3 Knots.

**Peshawar**

Rainfall reported as 1.01 mm from Peshawar during the week; however, cloudiness in the morning/evening recorded as 1.9/1.8 Oktas while, average relative humidity observed as 62%. Mean maximum time temperature was recorded as 36.6°C & for the recent week 104.7 growing degree days accumulated. Wind speed recorded in the morning/evening as 1.1/2.3 Knots.

**Kalam**

Rainfall reported as 10.30 mm from Kalam during the week; however, cloudiness in the morning/evening recorded as 1.0/3.2 Oktas while, average relative humidity observed as 48%. Mean maximum time temperature recorded as 24.7°C & for the recent week 21.7 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.6/0.0 Knots.

**Gilgit**

Rainfall reported as 0.01 (trace) mm from Gilgit during the week, cloudiness in the morning/evening recorded as 3.4/3.1 Oktas while, average relative humidity observed as 49%. Mean maximum time temperature recorded as 33.6°C & for the recent week 67.8 growing degree days accumulated. Wind speed recorded in the morning/evening as 0.6/2.0 Knots.

**Skardu**

Rainfall reported as 0.01 (trace) mm from Skardu during the week; however, cloudiness in the morning/evening recorded as 3.4/3.2 Oktas while, average relative humidity observed as 48%. Mean maximum time temperature recorded as 27.1°C & for the recent week 31.7 growing degree days accumulated. Wind speed recorded in the morning/evening as calm.

**Crop Situation 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)**

Cotton crops are sown in the fields of RAMC Faisalabad. Date of sowing 23-04-2024. Phonological Stage: Maturity. Condition: *Very Good*.

**Lower Sindh (Tandojam)**

Cotton crops are sown in the fields of RAMC Tandojam. Date of sowing 14-05-2024. Phonological Stage: Boll opening. Condition: *Good*.

**Northern Baluchistan (Quetta)**

Wheat crops are sown in the fields of RAMC Quetta. Date of sowing 22-11-2023. Phonological Stage: Harvested.

**Eastern Baluchistan (Usta Muhammad)**

Rice crop is sown in the fields of RAMC Usta Muhammad. Date of sowing 01-06-2024. Phonological Stage: Tillering. Condition: *Good*.

**Actual & Departure of Maximum temperature (°C) for the Previous week (09<sup>th</sup> – 15<sup>th</sup> September 2024)**

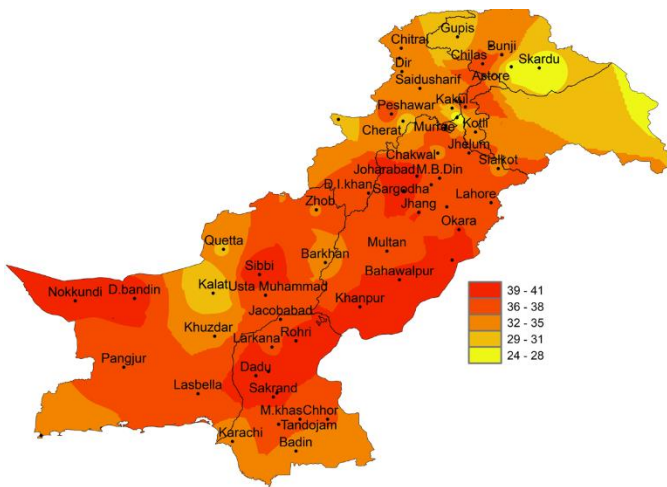


Figure 2: Actual Maximum temperature.

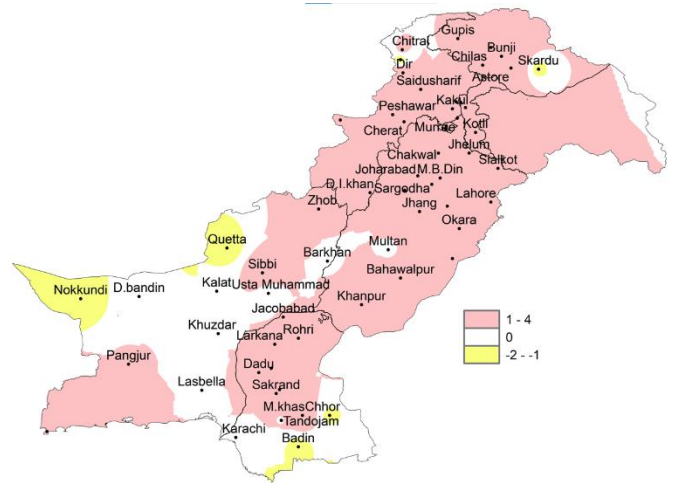


Figure 3: Departure of Maximum temperature.

**Actual & Departure of Mean temperature (°C) for the Previous week (09<sup>th</sup> – 15<sup>th</sup> September 2024)**

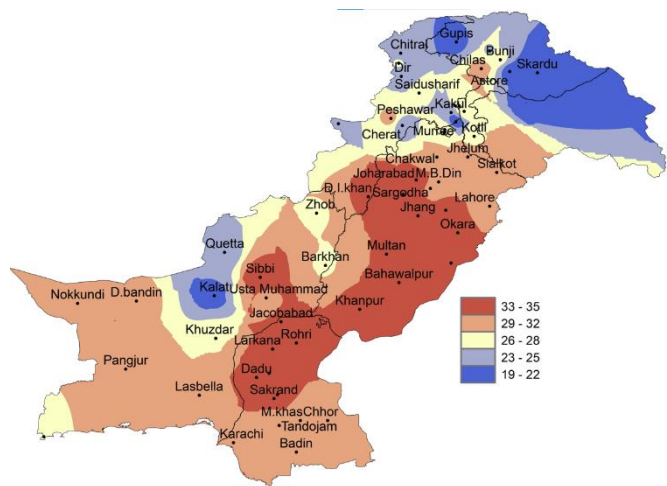


Figure 5: Actual Mean temperature.

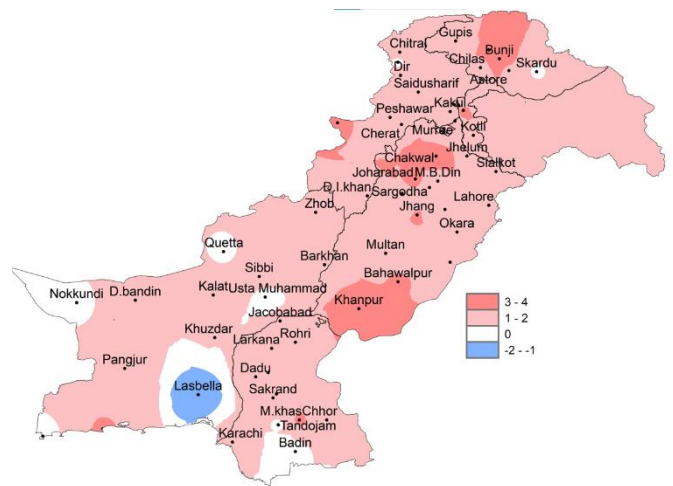


Figure 4: Departure of Mean temperature.

**Actual Minimum temperature (°C) during the Previous week (09<sup>th</sup> – 15<sup>th</sup> September 2024)**

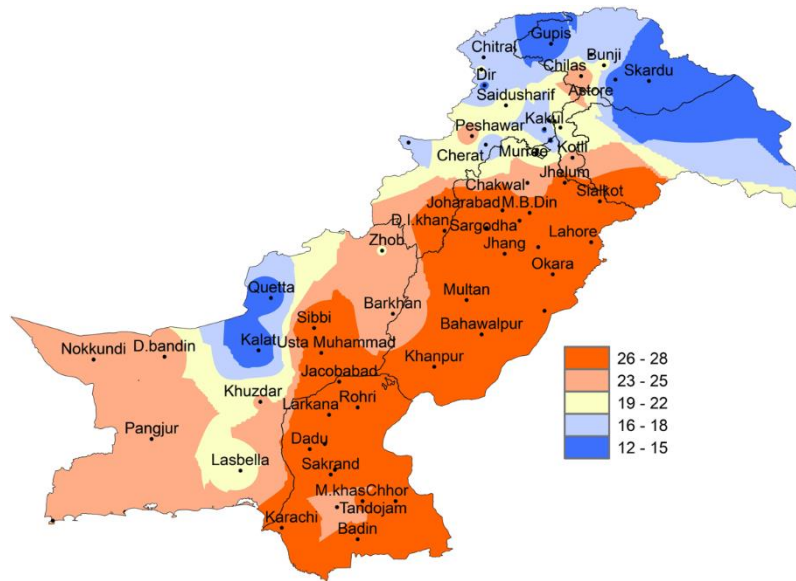


Figure 6: Actual Minimum temperature.

**Departure of Minimum temperature (°C) during the Previous week (09<sup>th</sup> – 15<sup>th</sup> September 2024)**

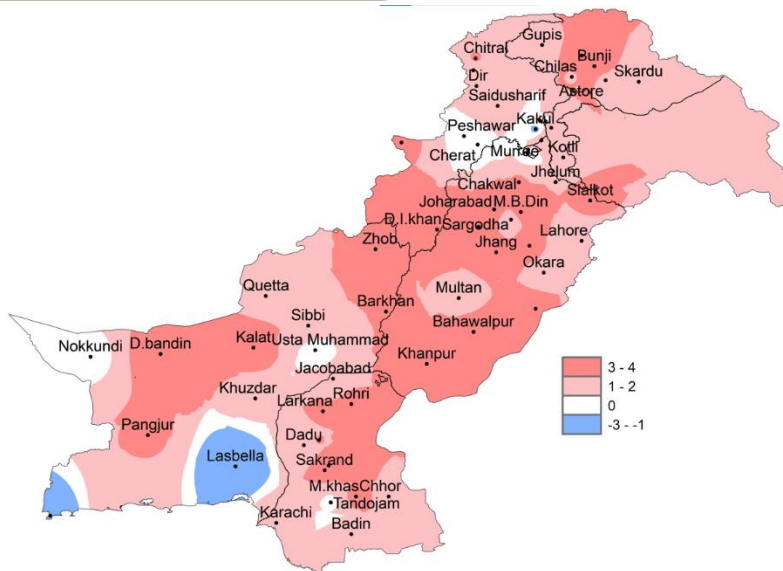


Figure 7: Departure of Minimum temperature.

**Mean Relative Humidity (%) during the Previous week (09<sup>th</sup> – 15<sup>th</sup> September 2024)**

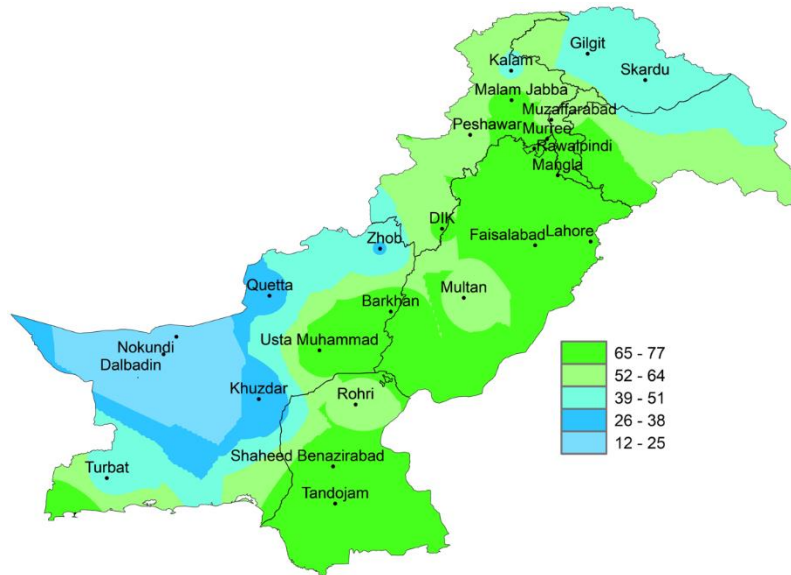


Figure 8: Relative Humidity

**Total Growing Degree Days accumulated during the Previous week (09<sup>th</sup> – 15<sup>th</sup> September 2024)**

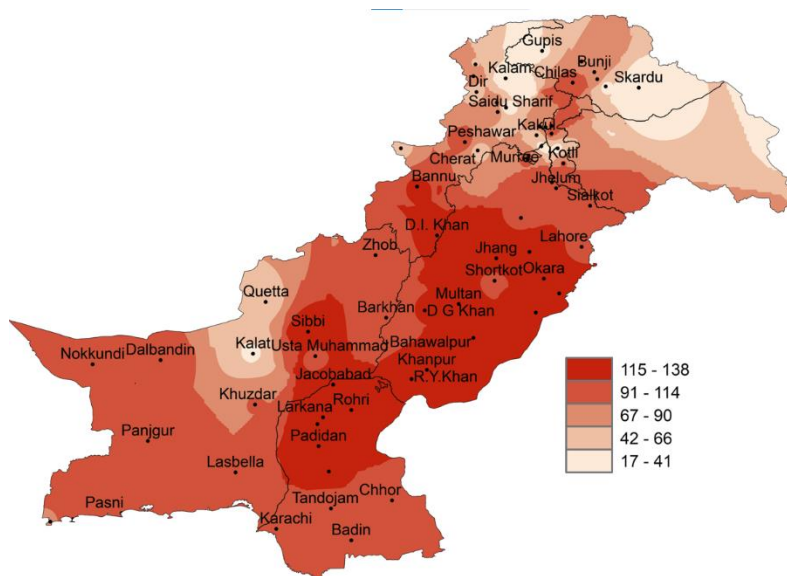


Figure 9: Growing Degree Days

**Mean Cloudiness (Octas) at 0800PST during the Previous week (09<sup>th</sup> – 15<sup>th</sup> September 2024)**

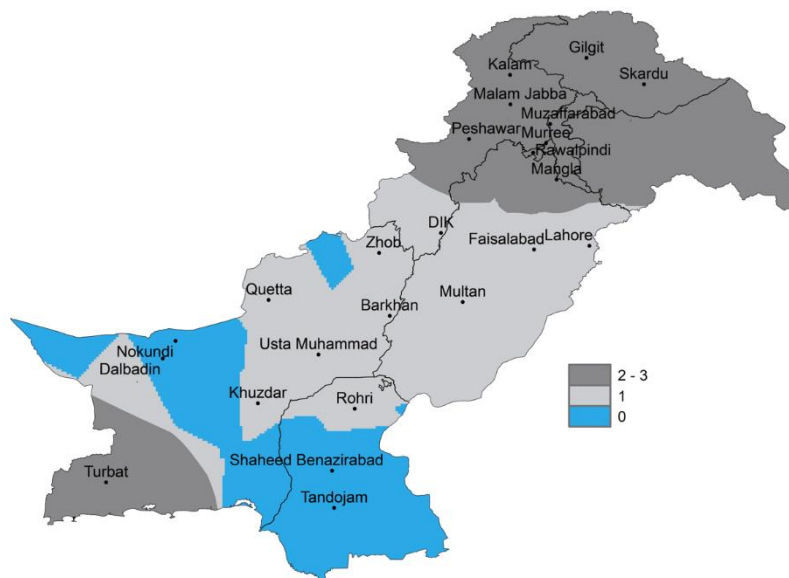


Figure 10: Mean Cloudiness at 0800

**Mean Cloudiness (Octas) at 1700PST during the Previous week (09<sup>th</sup> – 15<sup>th</sup> September 2024)**

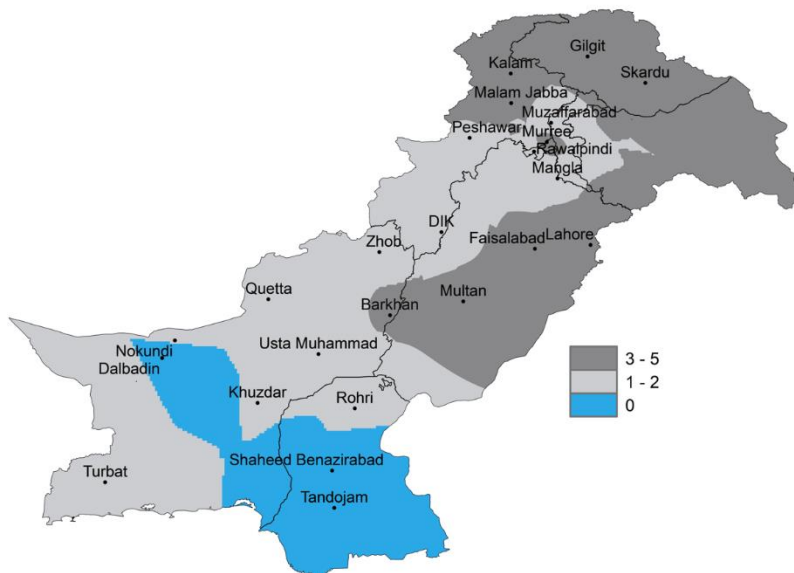


Figure 11: Mean Cloudiness at 1700



**Mean Wind Speed (Knots) at 0800PST during the  
Previous week (09<sup>th</sup> – 15<sup>th</sup> September 2024)**

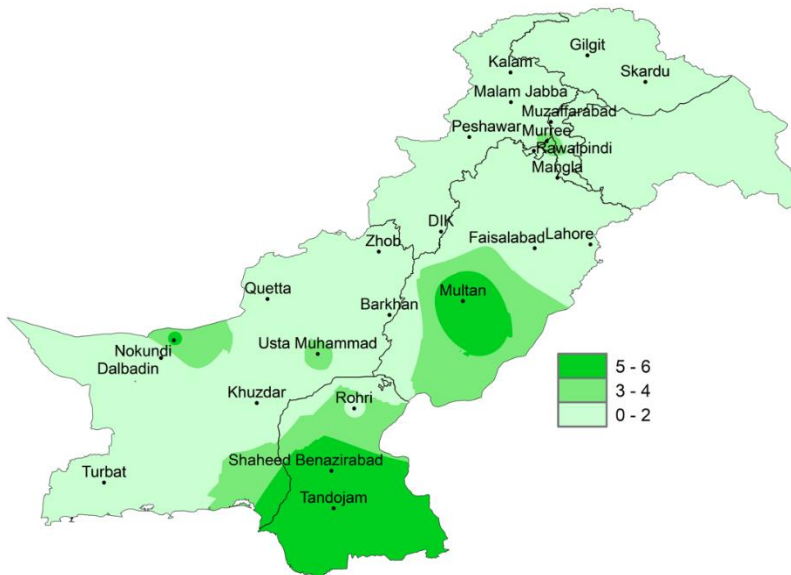


Figure 12: Mean Wind Speed 0300

**Mean Wind Speed (Knots) at 1700PST during the  
Previous week (09<sup>th</sup> – 15<sup>th</sup> September 2024)**

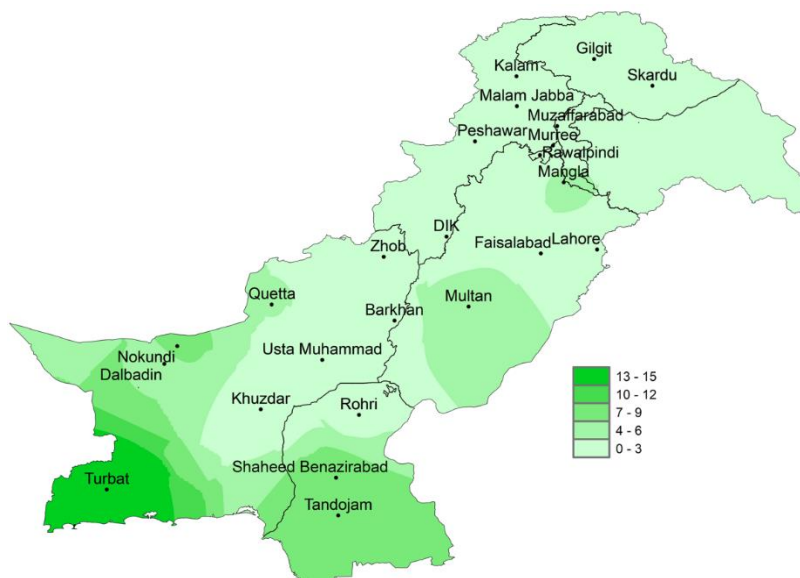
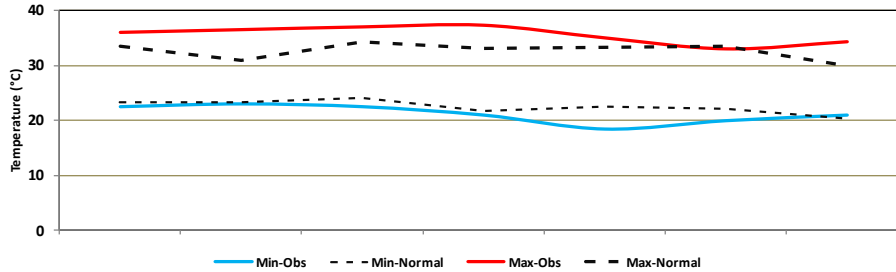


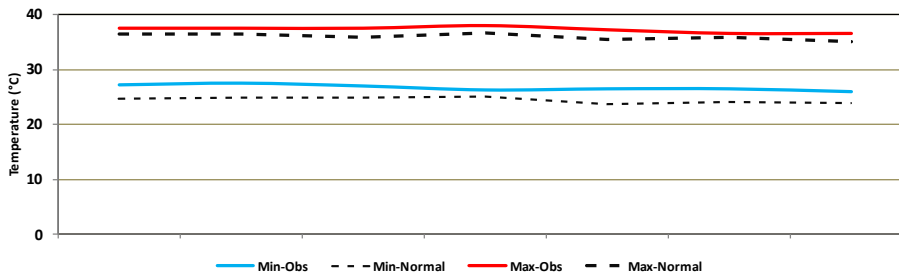
Figure 13: Mean Wind Speed 1700

Comparison of temperatures for RAMCs (Minimum & Maximum with normal) during the previous week (09<sup>th</sup> – 15<sup>th</sup> September 2024)

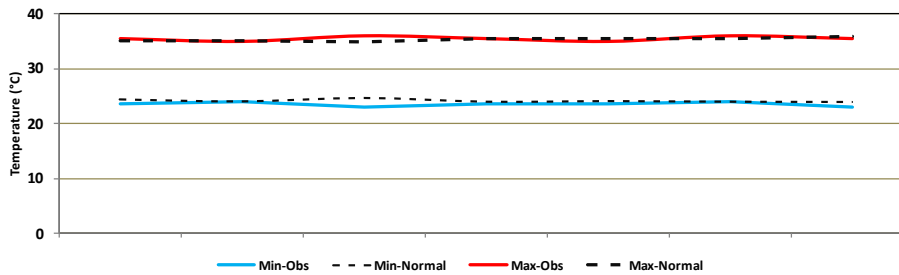
Rawalpindi (Min & Max Temperatures)



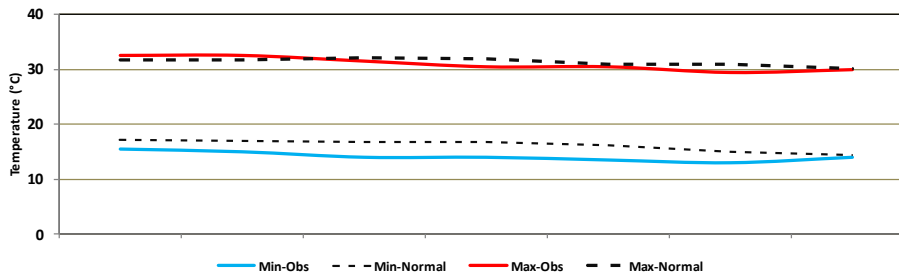
Faisalabad (Min & Max Temperatures)



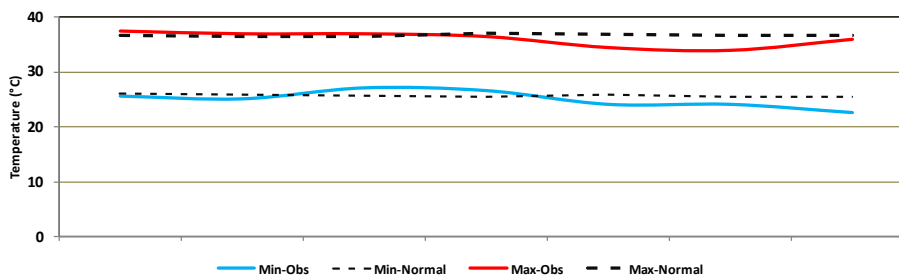
Tandojam (Min & Max Temperatures)



Quetta (Min & Max Temperatures)



Usta Muhammad (Min & Max Temperatures)



**Weekly Weather Advisory for Farmers****(16<sup>th</sup> – 22<sup>nd</sup> September 2024)**

Continental air is prevailing over most parts of the country. A shallow westerly wave is present over northern and western parts of the country.

**MONDAY****16-09-2024**

Mainly hot and dry weather is expected in most parts of the country. However, rain wind/thunderstorm is likely at isolated places in upper Khyber-Pakhtunkhwa and Gilgit-Baltistan during night.

**TUESDAY****17-09-2024**

Mainly hot and dry weather is expected in most parts of the country. However, rain wind/thunderstorm is likely at isolated places in upper Khyber-Pakhtunkhwa and Gilgit-Baltistan.

**WEDNESDAY****18-09-2024**

Mainly hot and dry weather is expected in most parts of the country.

**THURSDAY****19-08-2024**

Mainly hot and dry weather is expected in most parts of the country.

**FRIDAY****20-09-2024**

Mainly hot and dry weather is expected in most parts of the country.

**SATURDAY****21-09-2024**

Mainly hot and dry weather is expected in most parts of the country.

**SUNDAY****22-09-2024**

Mainly hot and dry weather is expected in most parts of the country.

**ADVISORY FOR FARMERS**

- The farmers may plan field activities according to the PMD weather forecast.

**National Weather Data of Selected Cities from (09<sup>th</sup> – 15<sup>th</sup> September 2024)**

| Stations      | Maximum/Day 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                              | Highest |                     |                       |               |                             |                             |                             |                             |
| D.I. Khan     | 37.5                              | 39.0    | 120.8               | 65                    | 0.0           | 0.8                         | 0.7                         | 0.3                         | 0.3                         |
| Faisalabad    | 37.2                              | 38.0    | 118.9               | 67                    | 0.0           | 0.0                         | 3.1                         | 1.1                         | 2.3                         |
| Gawadar       | 34.1                              | 36.0    | 104.3               | 77                    | 0.0           | 3.4                         | 0.0                         | 1.4                         | 12.9                        |
| Gilgit        | 33.6                              | 36.0    | 67.8                | 49                    | 0.0           | 3.4                         | 3.1                         | 0.6                         | 2.0                         |
| Kalam         | 24.7                              | 27.3    | 21.7                | 48                    | 10.3          | 1.0                         | 3.2                         | 0.6                         | 0.0                         |
| Lahore        | 36.0                              | 38.3    | 111.7               | 69                    | 0.0           | 0.0                         | 4.7                         | 1.3                         | 1.4                         |
| Malam Jabba   | 22.7                              | 25.0    | 16.0                | 71                    | 10.0          | 1.1                         | 2.6                         | 0.6                         | 1.7                         |
| Mangla        | 35.7                              | 36.5    | 106.5               | 71                    | 2.8           | 2.2                         | 1.0                         | 1.3                         | 4.0                         |
| Multan (PBO)  | 36.5                              | 37.5    | 117.2               | 62                    | 2.0           | 0.4                         | 2.9                         | 6.3                         | 5.4                         |
| Murree        | 24.4                              | 26.0    | 32.9                | 69                    | 6.0           | 2.5                         | 3.1                         | 3.3                         | 1.7                         |
| Muzaffarabad  | 35.5                              | 37.3    | 86.8                | 59                    | 5.0           | 2.2                         | 0.6                         | 0.0                         | 0.0                         |
| Sh. Ben. Abad | 38.6                              | 40.5    | 122.3               | 71                    | 0.0           | 0.0                         | 0.0                         | 5.7                         | 8.0                         |
| Peshawar      | 36.6                              | 40.0    | 104.7               | 62                    | 1.0           | 1.9                         | 1.8                         | 1.1                         | 2.3                         |
| Quetta        | 31.0                              | 32.5    | 123.0               | 35                    | 0.0           | 0.0                         | 0.7                         | 1.2                         | 3.1                         |
| Rawalpindi    | 35.6                              | 37.3    | 93.8                | 69                    | 27.7          | 1.7                         | 0.9                         | 0.9                         | 0.9                         |
| Rohri         | 38.9                              | 40.5    | 126.5               | 60                    | 0.0           | 0.0                         | 0.0                         | 2.0                         | 1.4                         |
| Skardu        | 27.1                              | 29.4    | 31.7                | 48                    | 0.0           | 3.4                         | 3.2                         | 0.0                         | 0.0                         |
| Tandojam      | 35.5                              | 36.0    | 101.5               | 77                    | 0.0           | 0.0                         | 0.0                         | 5.1                         | 8.5                         |
| U.Muhammad    | 36.1                              | 37.5    | 178.5               | 72                    | 0.0           | 0.5                         | 0.7                         | 2.2                         | 2.5                         |
| Zhob          | 34.5                              | 36.0    | 91.5                | 37                    | 0.0           | 0.0                         | 2.0                         | 0.9                         | 2.6                         |

\*\*\* Shows that data was not available.