

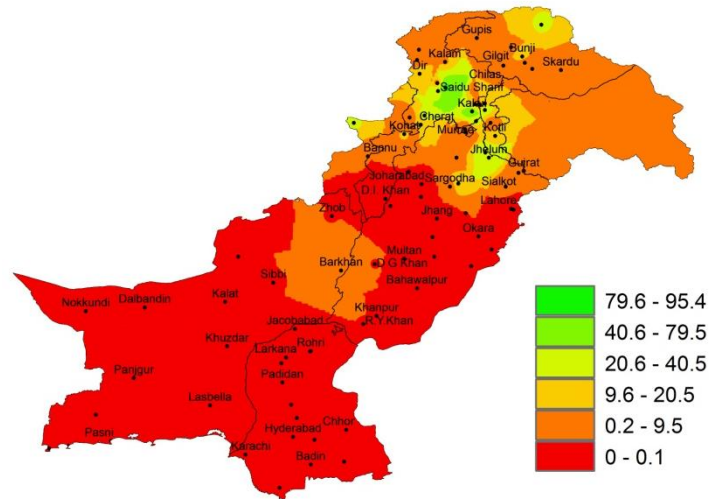
Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall Distribution (mm) during the previous
Week (14th August to 20th August, 2017)**



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Highlights of Past Weather (14th August to 20th August, 2017)

Above normal day time temperatures reported from most parts of the country.

Province wise distribution of rainfall reported as follows:

- Light to moderate rainfall reported from most parts of upper Punjab, Khyber Pakhtunkhwa, Gilgit-Baltistan and Azad Kashmir during the week.
- Light rainfall was reported from only two places of Baluchistan.
- Light rainfall recorded at a single station of Sindh.

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Editor-in-Chief: Dr. Khalid M. Malik (Director)

Editor: Ms. Khalida Noureen (Meteorologist)

Past Weather of Provinces (14th August to 20th August, 2017)

Punjab

Light to moderate rainfall reported from Punjab during the week. Weekly maximum and minimum temperatures recorded as 36.6°C & 25.8°C respectively. For the recent week on average 183.7 growing degree days were accumulated by the end of the last week. Average relative humidity recorded as 66% and wind speed in the morning/evening recorded as 2.0/3.0 knots. During the previous week the highest amount of rainfall was recorded as 35 mm at Jhelum & highest maximum temperature was recorded as 44.0°C at Bhakkar.

Balochistan

Light rainfall was reported from two places of Balochistan province during the week. Weekly maximum and minimum temperatures recorded as 36.5°C & 22.3°C respectively. For the recent week on average 173.2 growing degree days were accumulated by the end of last week. Average relative humidity recorded as 46% and wind speed in the morning/evening recorded as 1.3/5.3 knots. During the previous week the highest amount of rainfall was recorded as 5.0 mm at Lasbella & highest maximum temperature was recorded as 45.0°C at Sibbi.

Khyber Pakhtunkhwa

Light to moderate rainfall reported from most part of Khyber Pakhtunkhwa during the week. Weekly maximum and minimum temperatures recorded as 33.5°C & 19.6°C respectively. For the recent week on average 151.1 growing degree days were accumulated by the end of last week. Average relative humidity recorded as 61% and wind speed in the morning/evening recorded as 0.6/3.5 knots. During the previous week the highest amount of rainfall was recorded as 97.0 mm at Malamjabba & highest maximum temperature was recorded as 42.0 °C at D.I. Khan.

Gilgit-Baltistan and Azad Jammu & Kashmir

Light to moderate rainfall reported from most part of Gilgit-Baltistan & Kashmir during the week. Weekly maximum and minimum temperatures recorded as 30.8°C & 17.3°C respectively. For the recent week on average 126.6 growing degree days were accumulated by the end of last week. Average relative humidity recorded as 57% and wind speed in the morning/evening recorded as 0.8/3.2 knots. During the previous week the highest amount of rainfall was recorded as 30.0 mm at Garhi Dopatta & highest maximum temperature was recorded as 41.0°C at Chilas.

Sindh

Light rainfall recorded at a single station of Sindh during the week. Weekly maximum and minimum temperatures recorded as 37.6°C & 26.4°C respectively. For the recent week, on average 193.2 growing degree days were accumulated by the end of last week. Average relative humidity recorded as 63% and wind speed in the morning/evening recorded as 4.7/5.3 knots. During the previous week the highest amount of rainfall was recorded as 0.01 mm at Karachi & highest maximum temperature was recorded as 43.8°C at Dadu.

Past Weather for Major Agricultural Plains
(14th August to 20th August, 2017)

Rawalpindi (Potohar region)

Rainfall reported as 6.4 mm from Rawalpindi during the week; however, cloudiness in the morning/evening recorded as 1.1/2.1 Oktas while, average relative humidity observed as 69%. Mean day time temperature recorded as 35.2°C & for the recent week 172.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.5/1.4 knots.

Faisalabad (Central Punjab)

Rainfall reported as 18.3 mm from Faisalabad during the week; however, cloudiness in the morning/evening recorded as 1.7/0.6 Oktas while, average relative humidity observed as 62%. Mean day time temperature recorded as 37.6°C & for the recent week 186.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.5/1.0 knots.

Tandojam (Lower Sindh)

Dry weather reported from Tandojam during the week; however, cloudiness in the morning/evening recorded as 0.9/1.9 Oktas while, average relative humidity observed as 66%. Mean day time temperature recorded as 37.6°C & for the recent week 186.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.8/3.2 knots.

Usta Muhammad (Eastern Balochistan)

Dry weather reported from Usta Muhammad during the week; however, cloudiness in the morning/evening recorded 1.0/1.7 Oktas while, average relative humidity observed as 67%. Mean day time temperature recorded as 37.2°C & for the recent week 194.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.3/5.1 knots.

Quetta (Northern Baluchistan)

Dry weather reported from Quetta during the week; however, cloudiness in the morning/evening recorded as 0.0/1.8 Oktas while, average relative humidity observed as 24.0%. Mean day time temperature recorded as 33.4°C & for the recent

week 136.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.8/3.1 knots.

Past Weather for Sub-Regional Agricultural Plains (14th August to 20th August, 2017)

Multan

Dry weather reported from Multan during the week; however, cloudiness in the morning/evening recorded as 1.0/0.3 Oktas while, average relative humidity observed as 60%. Mean day time temperature recorded as 37.7°C & for the recent week 193.6 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 6.0/7.1 knots.

Lahore

Rainfall reported as 0.01 mm from Lahore during the week; however, cloudiness in the morning/evening recorded as 1.6/3.5 Oktas while, average relative humidity observed as 67%. Mean day time temperature recorded as 36.0°C & for the recent week 184.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.1/2.8 knots.

Zhob

Dry weather reported from Zhob during the week; however, cloudiness in the morning/evening recorded as 0.7/0.9 Oktas while, average relative humidity observed as 37%. Mean day time temperature recorded as 36.3°C & for the recent week 166.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 4.3/4.7 knots.

Murree

Rainfall reported as 24.0 mm from Murree during the week; however, cloudiness in the morning/evening recorded as 2.1/5.4 Oktas while, average relative humidity observed as 79%. Mean day time temperature recorded as 23.7°C & for the recent week 98.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/1.4 knots.

D.I. Khan

Dry weather reported from D.I.Khan during the week; however, cloudiness in the morning/evening recorded as 1.7/1.5 Oktas while, average relative humidity observed as 67%. Mean day time temperature recorded as 39.1°C & for the recent week 195.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/1.8 knots.

Peshawar

Rainfall reported as 0.01 mm from Peshawar during the week; however, cloudiness in the morning/evening recorded as 0.9/2.3 Oktas while, average relative humidity observed as 66%. Mean day time temperature recorded as 35.8°C & for the recent week 177.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.4/3.0 knots.

Kalam

Rainfall reported as 8.0 mm from Kalam during the week; however, cloudiness in the morning/evening recorded as 1.0/5.0 Oktas while, average relative humidity observed as 64%. Mean day time temperature recorded as 26.6°C & for the recent week 93.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/2.6 knots.

Gilgit

Rainfall reported as 6.8 mm from Gilgit during the week; However, cloudiness in the morning/evening recorded as 3.4/5.0 Oktas while, average relative humidity observed as 57%. Mean day time temperature recorded as 31.6°C & for the recent week 130.6 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/11.0 knots.

Skardu

Rainfall reported as 0.21 mm from Skardu during the week; However, cloudiness in the morning/evening recorded as 3.1/5.6 Oktas while, average relative humidity observed as 52%. Mean day time temperature recorded as 28.4°C & for the recent week 113.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/1.7 knots.

**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)

There is presently one crop (irrigated conditions) grown in the fields of RAMC Faisalabad.

Cotton: Good condition, *Flowering* stage completed.

Lower Sindh (Tandojam)

There is presently one crop (irrigated conditions) grown in the fields of RAMC Tandojam.

Cotton (HH-906): Good condition, *Boll Opening* stage.

Northern Baluchistan (Quetta)

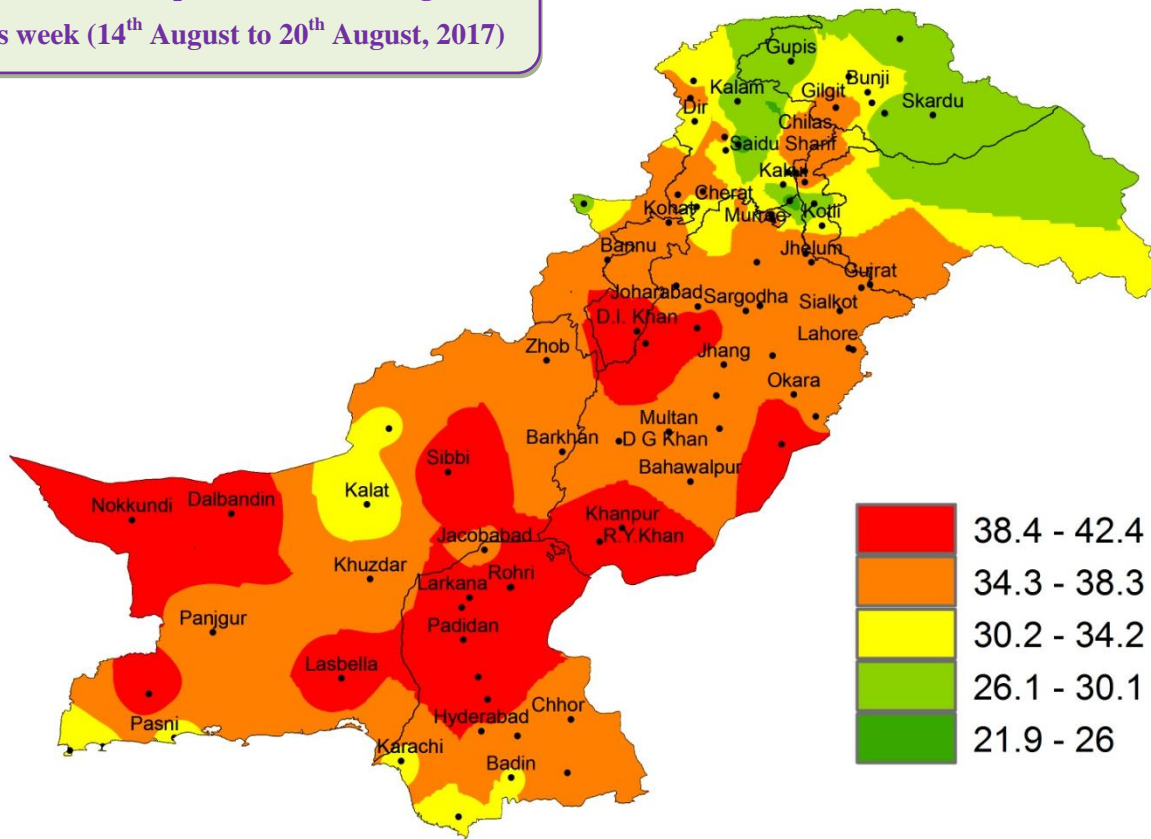
There is presently no crop grown in the fields of RAMC Quetta.

Eastern Baluchistan (Usta Muhammad)

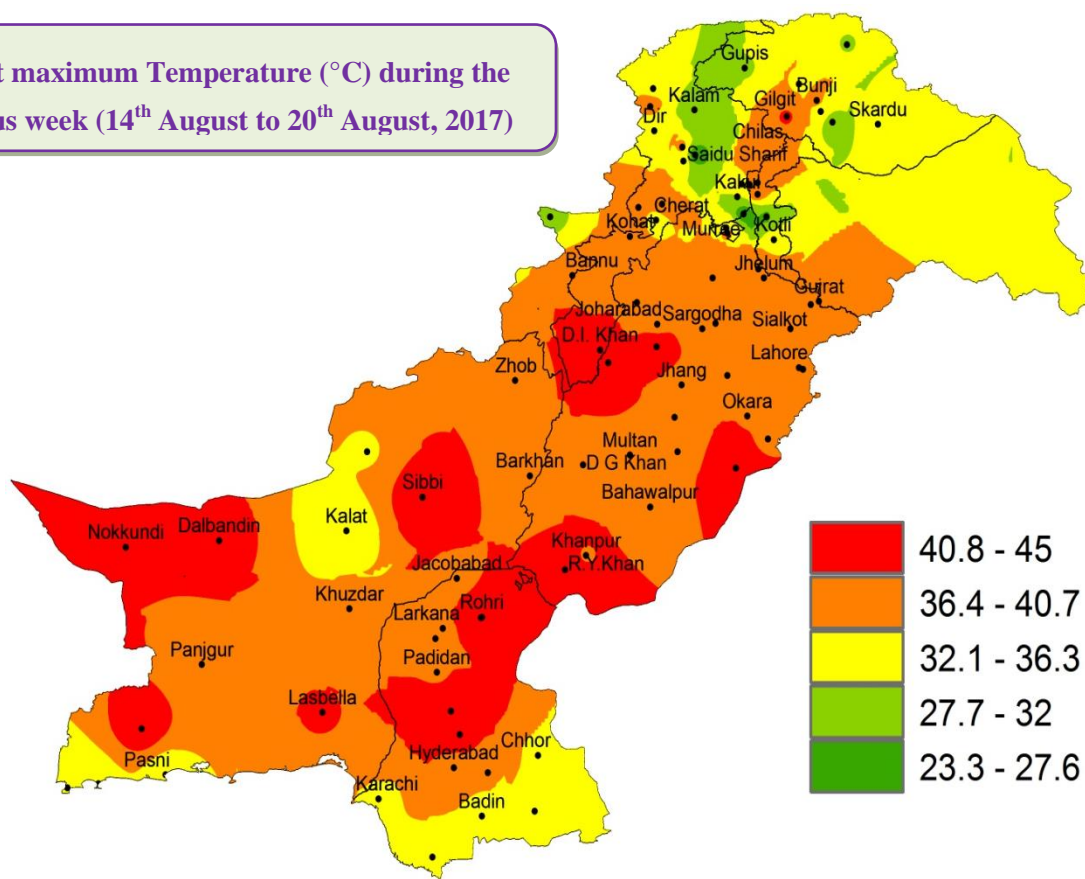
There is presently one crop (irrigated conditions) grown in the fields of RAMC Usta Muhammad.

Rice: Good condition, *Third Leaf* stage.

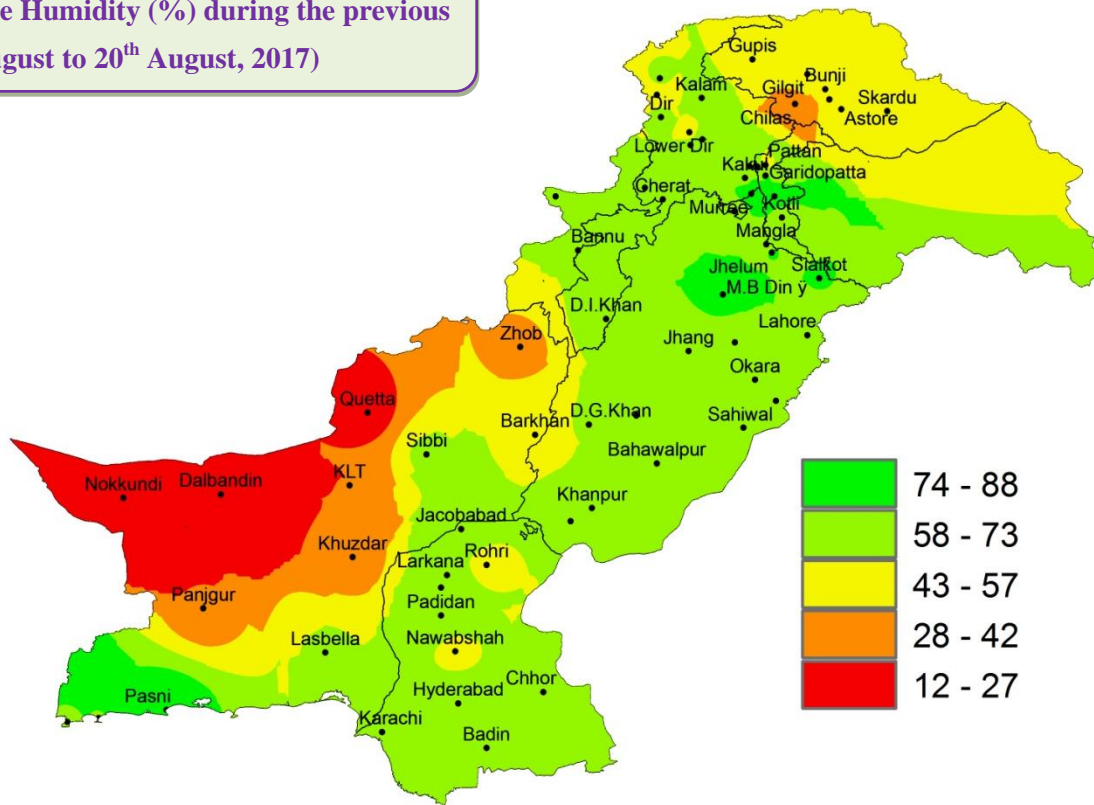
**Mean Maximum Temperature (°C) during the
Previous week (14th August to 20th August, 2017)**



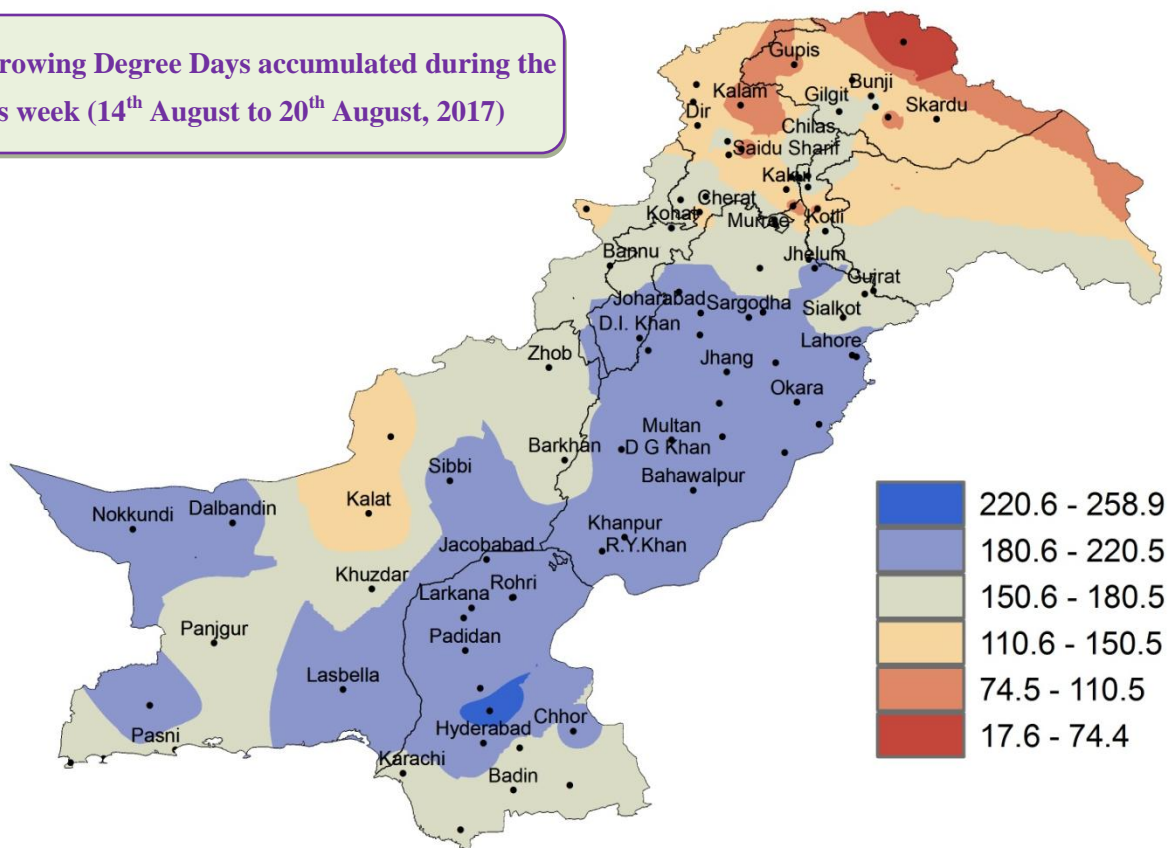
**Highest maximum Temperature (°C) during the
Previous week (14th August to 20th August, 2017)**



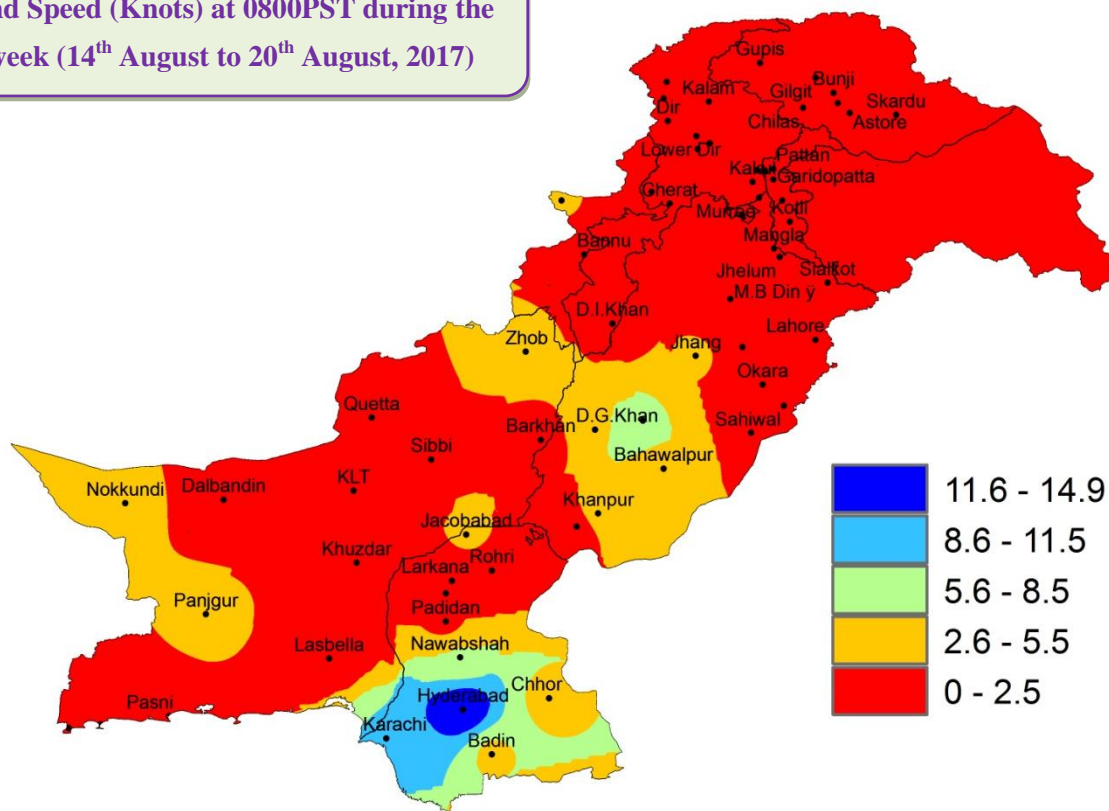
Mean Relative Humidity (%) during the previous week (14th August to 20th August, 2017)



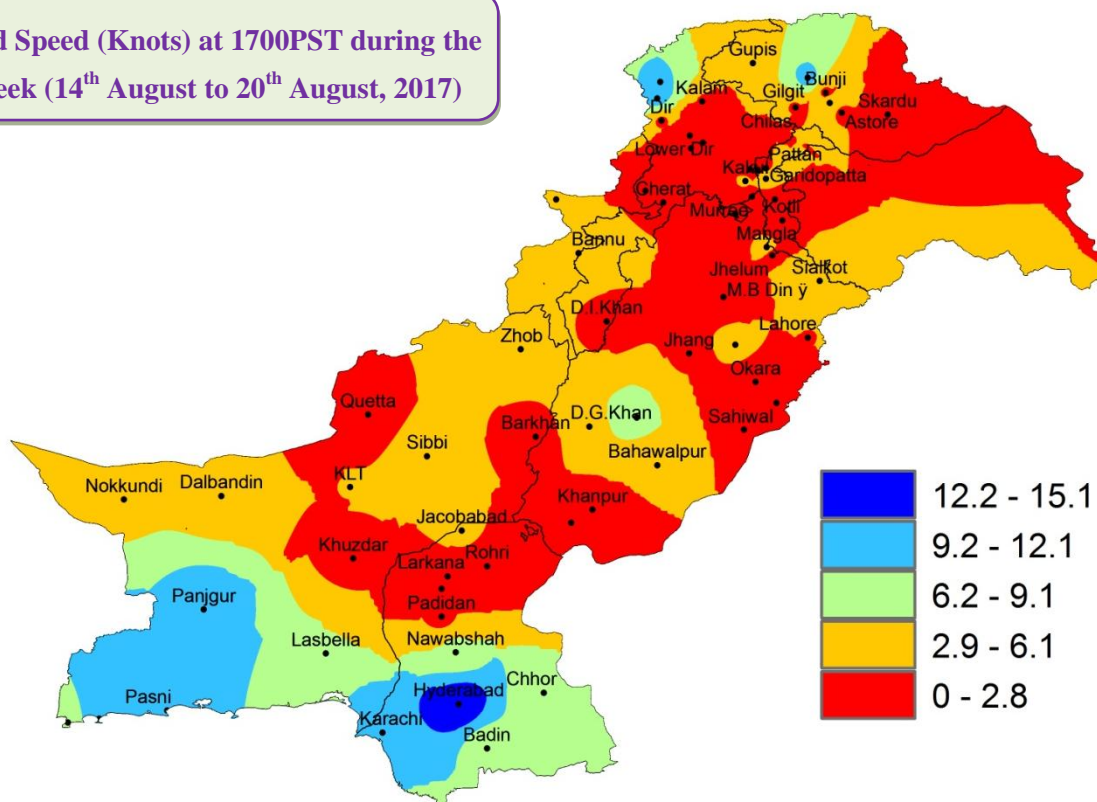
Total Growing Degree Days accumulated during the previous week (14th August to 20th August, 2017)



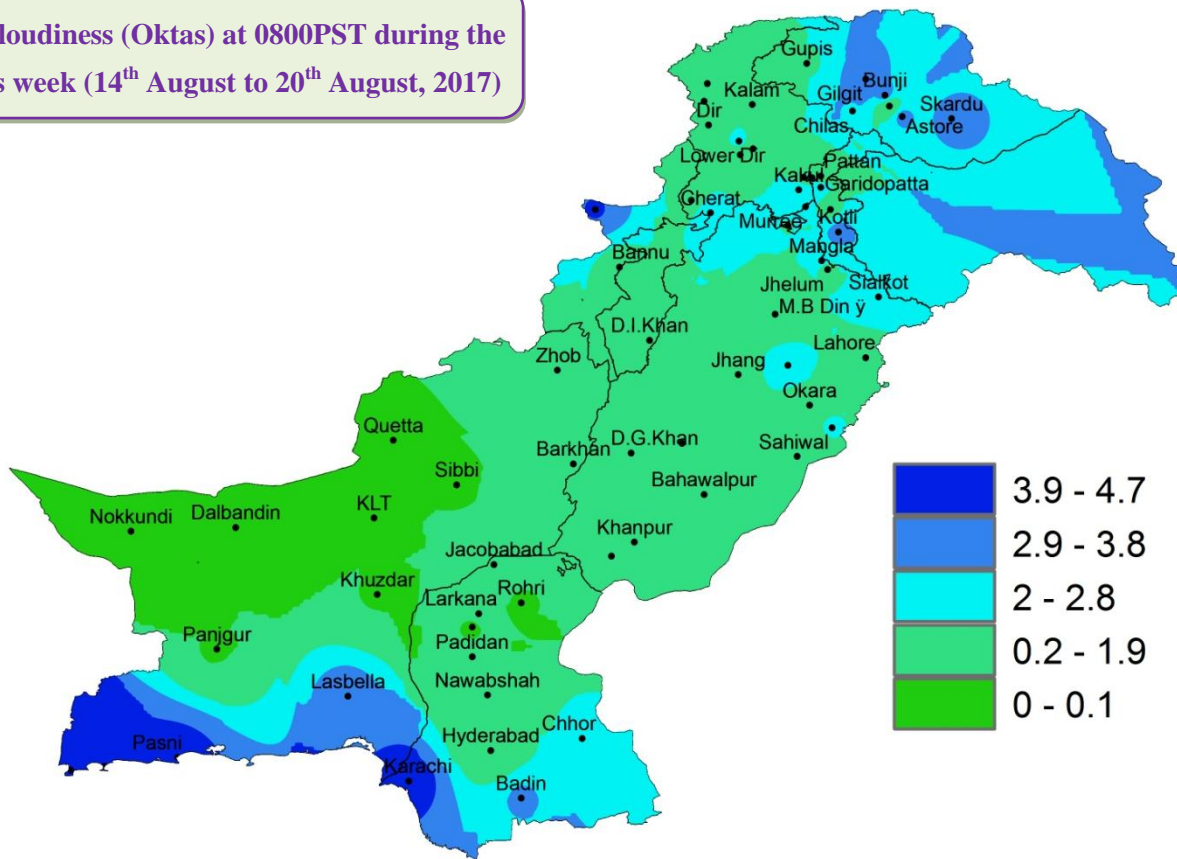
Mean Wind Speed (Knots) at 0800PST during the previous week (14th August to 20th August, 2017)



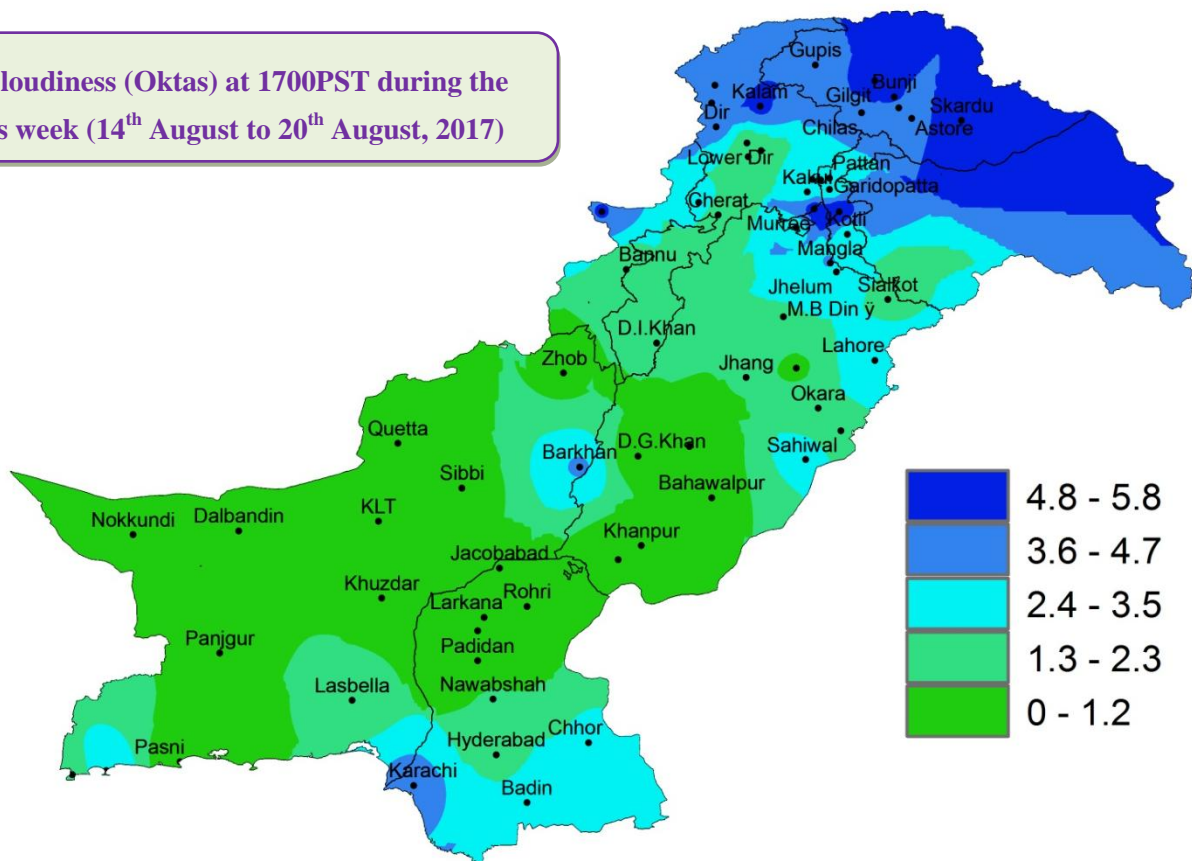
Mean Wind Speed (Knots) at 1700PST during the previous week (14th August to 20th August, 2017)



Mean Cloudiness (Oktas) at 0800PST during the previous week (14th August to 20th August, 2017)



Mean Cloudiness (Oktas) at 1700PST during the previous week (14th August to 20th August, 2017)



Weekly Weather Advisory for Farmers
(21st August to 27th August, 2017)

Weak seasonal low lies over Balochistan. Monsoon currents from Bay of Bengal are penetrating northeastern parts of the country. A westerly wave is likely to affect upper parts of the country during next few days.

MONDAY (21-08-2017)

Mainly hot and humid weather is expected in most part of the country. However, rain-thunderstorm with gusty winds is expected at isolated places in upper Khyber-Pakhtunkhwa, lower Sindh, Rawalpindi, Gujranwala, Lahore, Sargodha divisions, Islamabad, FATA, Gilgit-Baltistan and Kashmir.

TUESDAY (22-08-2017)

Mainly hot and humid weather is expected in most part of the country. However, rain-thunderstorm with gusty winds is expected at isolated places in upper Khyber-Pakhtunkhwa, lower Sindh, upper Punjab (Rawalpindi, Gujranwala, Lahore, Sargodha, Faisalabad divisions), Islamabad, FATA, Gilgit-Baltistan, Kashmir & Kalat division.

WEDNESDAY (23-08-2017)

Rain-thunderstorm is expected at scattered places in Khyber-Pakhtunkhwa, Zhob, Rawalpindi division, Islamabad, FATA, Kashmir, while at isolated places in Mirpurkhas, Gujranwala and Lahore divisions. Hot and humid weather is expected elsewhere in the country.

THURSDAY (24-08-2017)

Mainly hot and humid weather is expected in most parts of the country. However, rain-thunderstorm is expected at scattered places in upper Punjab, Kashmir, while at isolated places in Khyber-Pakhtunkhwa, FATA, Zhob, Multan, D.G.Khan, Mirpurkhas divisions.

FRIDAY (25-08-2017)

Mainly hot and humid weather is expected in most parts of the country. However, rain-thunderstorm is expected at scattered places in upper Punjab, Islamabad, Khyber-Pakhtunkhwa, FATA, Zhob, Multan, D.G.Khan, Mirpurkhas divisions and Kashmir.

SATURDAY (26-08-2017)

Mainly hot and humid weather is expected in most parts of the country. However, rain-thunderstorm is expected at scattered places in upper Punjab, Islamabad, Khyber-Pakhtunkhwa, FATA and Kashmir, While at isolated places in Zhob, Multan, D.G.Khan, Mirpurkhas, Sibbi divisions.

SUNDAY (27-08-2017)

Mainly hot and humid weather is expected in most part of the country.

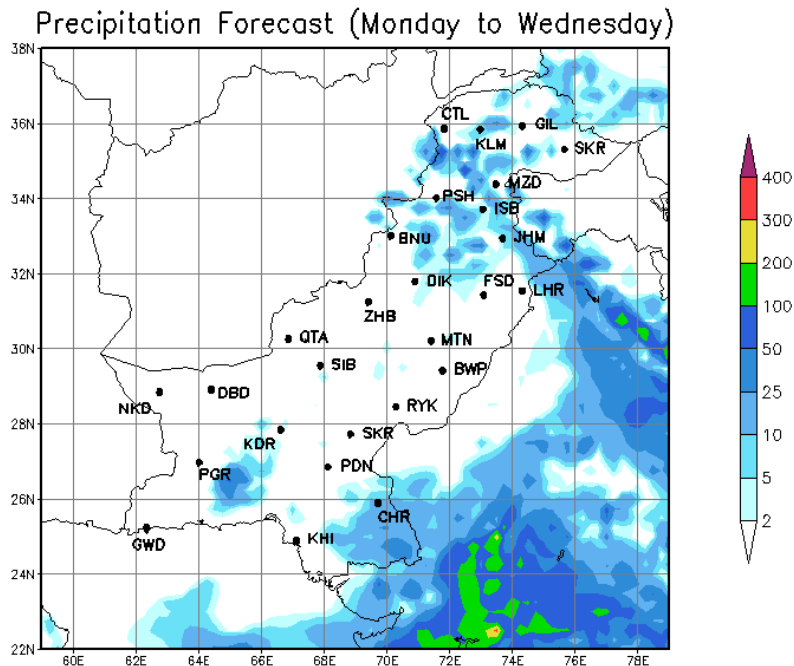
ADVISES FOR FARMERS

During the last week, light to moderate rainfall occurred in most of the agricultural plains of the country. In the coming days, mainly hot and very humid weather is expected in most of the agricultural plains of the country. However, light to moderate rainfall is expected at isolated places of KP, Punjab, GB and Kashmir. Keeping in view the expected weather conditions following advises are suggested for farming community.

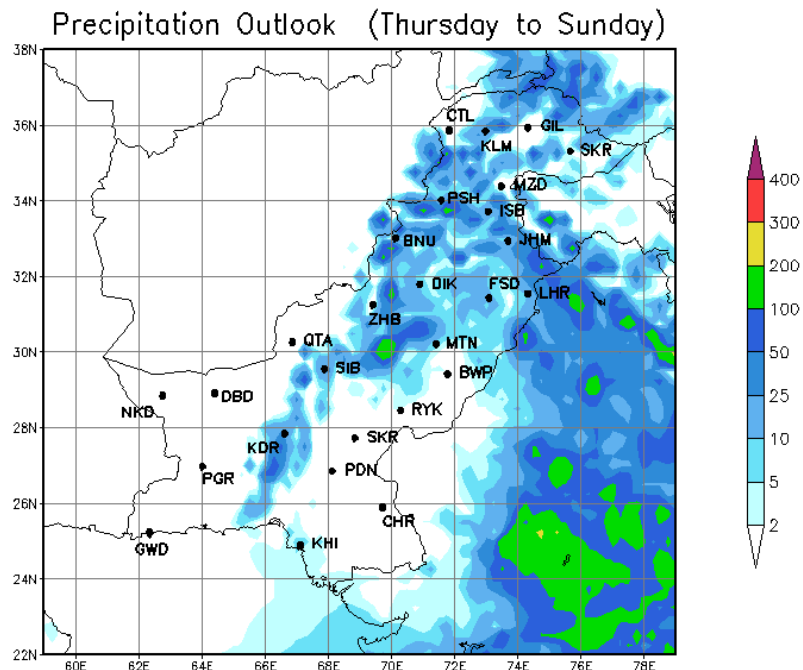
- Pest/viral attacks and more weeds growth are expected after consistent rains in standing crops. Farmers are therefore advised to take in time precautionary measures in this regard.
- Farmers of irrigated areas may irrigate the standing crops as per requirement in accordance with the expected weather conditions.

Weather Outlook from 21st August to 27th August, 2017

The outlook from 21st August to 23rd August, 2017 shows that light rainfall is expected in isolated parts of KP, GB, Azad Kashmir, upper Punjab, southern Balochistan and southeastern Sindh.



The outlook from 24th to 27th August, 2017 shows that light to moderate rainfall is expected in most parts of the country except Sindh and western Baluchistan.



National Weather Data of Selected Cities (14th August to 20th August, 2017)

| Stations | Maximum/Nighttime 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 | | | | | | | |
| Astore | 25.4 | 29.0 | 96.8 | 51 | 7.1 | 3.3 | 4.5 | 1.4 | 2.5 |
| Badin | 33.9 | 35.0 | 175.3 | 69 | 0.0 | 3.0 | 3.1 | 4.6 | 6.8 |
| Bahawalnagar | 40.3 | 43.0 | 200.5 | 58 | 0.0 | 0.6 | 2.6 | 0.6 | 2.0 |
| Bahawalpur | 38.0 | 39.5 | 193.8 | 63 | 0.0 | 0.7 | 0.9 | 5.1 | 3.5 |
| Balakot | 33.2 | 34.5 | 149.5 | 67 | 5.0 | 1.4 | 2.6 | 0.0 | 1.9 |
| Bannu | 37.5 | 39.4 | 170.1 | 59 | 0.0 | 1.4 | 1.4 | 0.0 | 5.5 |
| Barkhan | 35.4 | 37.5 | 167.5 | 52 | 5.0 | 1.0 | 3.6 | 0.3 | 1.0 |
| Bunji | 32.5 | 37.2 | 150.5 | 48 | 16.7 | 3.7 | 5.0 | 0.6 | 2.0 |
| Cherat | 29.9 | 35.0 | 135.5 | 60 | 11.0 | 2.4 | 1.6 | 2.0 | 2.5 |
| Chhor | 35.7 | 36.3 | 181.7 | 69 | 0.0 | 2.4 | 2.5 | 4.3 | 6.5 |
| Chilas | 36.8 | 41.0 | 177.8 | 34 | 3.0 | 2.7 | 4.4 | 2.3 | 2.5 |
| Chitral | 34.0 | 36.0 | 140.4 | 61 | 0.0 | 1.1 | 3.6 | 0.0 | 9.5 |
| D.G.Khan | 37.8 | 39.0 | 195.8 | 58 | 0.0 | 1.0 | 0.4 | 5.4 | 5.8 |
| D.I.Khan | 39.1 | 42.0 | 195.3 | 67 | 0.0 | 1.7 | 1.5 | 0.6 | 1.8 |
| Dalbandin | 41.3 | 42.5 | 186.8 | 14 | 0.0 | 0.0 | 0.3 | 0.0 | 3.9 |
| Dir | 32.7 | 34.0 | 124.5 | 64 | 19.0 | 0.9 | 4.3 | 0.0 | 2.3 |
| Drosh | 35.1 | 37.0 | 149.7 | 42 | 1.0 | 1.0 | 4.3 | 0.0 | 10.8 |
| Faisalabad | 37.6 | 39.5 | 186.3 | 62 | 18.3 | 1.7 | 0.6 | 0.5 | 1.0 |
| Garidopatta | 35.4 | 37.0 | 165.3 | 76 | 30.0 | 2.1 | 2.5 | 0.0 | 4.3 |
| Gawader | 33.6 | 34.0 | 172.3 | 72 | 0.0 | 4.7 | 3.5 | 0.0 | 11.1 |
| Gilgit | 31.6 | 35.6 | 130.3 | 57 | 6.8 | 3.4 | 5.0 | 0.3 | 11.0 |
| Gupis | 27.9 | 31.5 | 108.3 | 48 | 3.0 | 1.7 | 4.4 | 2.3 | 3.8 |

| | | | | | | | | | |
|--------------|------|------|-------|----|------|-----|-----|------|------|
| Hyderabad | 37.9 | 39.0 | 187.8 | 64 | 0.0 | 0.4 | 1.9 | 14.9 | 15.1 |
| Islamabad | 34.5 | 36.0 | 167.4 | 67 | 3.0 | 1.9 | 3.0 | 0.0 | 1.3 |
| Jacobabad | 37.6 | 39.5 | 194.0 | 65 | 0.0 | 0.9 | 1.1 | 2.9 | 3.8 |
| Jhang | 37.4 | 39.5 | 188.3 | 63 | 0.0 | 1.7 | 1.3 | 2.9 | 2.3 |
| Jhelum | 36.6 | 38.4 | 184.0 | 74 | 35.0 | 1.7 | 2.4 | 0.0 | 2.5 |
| Jiwani | 32.1 | 32.5 | 166.8 | 72 | 0.0 | 4.0 | 1.6 | 1.4 | 7.4 |
| Kakul | 30.1 | 31.5 | 132.0 | 71 | 64.0 | 2.3 | 2.6 | 0.0 | 3.3 |
| Kalam | 26.6 | 28.5 | 93.3 | 64 | 8.0 | 1.0 | 5.0 | 0.0 | 2.6 |
| Kalat | 31.0 | 33.0 | 116.0 | 27 | 0.0 | 0.0 | 0.3 | 0.0 | 2.9 |
| Karachi | 34.0 | 36.0 | 178.8 | 67 | 0.0 | 4.4 | 4.0 | 9.1 | 10.5 |
| Khanpur | 38.8 | 40.5 | 195.2 | 64 | 0.0 | 1.0 | 0.8 | 3.4 | 2.0 |
| Khuzdar | 36.9 | 37.5 | 179.3 | 31 | 0.0 | 0.0 | 0.9 | 0.0 | 2.0 |
| Kotli | 33.7 | 35.0 | 166.2 | 68 | 14.6 | 3.3 | 2.6 | 1.4 | 1.5 |
| Lahore | 36.0 | 39.0 | 184.1 | 67 | 0.0 | 1.6 | 3.5 | 1.1 | 2.8 |
| Larkana | 38.9 | 40.5 | 194.4 | 59 | 0.0 | 0.4 | 0.8 | 0.9 | 1.3 |
| Lasbella | 39.1 | 41.0 | 196.7 | 61 | 0.0 | 3.4 | 1.6 | 0.0 | 6.5 |
| Lower Dir | 36.4 | 38.0 | 170.8 | 50 | 1.0 | 2.3 | 2.0 | 1.4 | 2.5 |
| M.B Din | 36.5 | 38.5 | 182.2 | 80 | 21.0 | 1.4 | 2.3 | 0.9 | 1.8 |
| Malam Jabba | 21.6 | 23.0 | 84.3 | 68 | 97.0 | 1.3 | 2.4 | 0.6 | 0.3 |
| Mangla | 35.9 | 37.5 | 179.1 | 68 | 22.0 | 2.0 | 3.8 | 0.0 | 3.3 |
| Mir Khani | 34.8 | 35.5 | 160.4 | 41 | 0.0 | 0.0 | 4.0 | 1.0 | 4.4 |
| Moinjodaro | 39.0 | 40.0 | 195.2 | 66 | 0.0 | 0.0 | 0.4 | 2.3 | 2.9 |
| Multan(PBO) | 37.7 | 39.3 | 193.6 | 60 | 0.0 | 1.0 | 0.3 | 6.0 | 7.1 |
| Murree | 23.7 | 24.6 | 98.9 | 79 | 24.0 | 2.1 | 5.4 | 0.6 | 1.4 |
| Muzaffarabad | 34.6 | 36.8 | 159.3 | 64 | 8.0 | 2.0 | 2.6 | 0.3 | 2.3 |
| Nawabshah | 40.6 | 42.2 | 199.9 | 54 | 0.0 | 0.7 | 1.3 | 6.0 | 7.4 |

| | | | | | | | | | |
|----------------|------|------|-------|----|------|-----|-----|-----|------|
| Nokkundi | 40.6 | 41.5 | 194.0 | 12 | 0.0 | 0.0 | 0.0 | 3.7 | 5.4 |
| Okara | 38.1 | 40.5 | 194.6 | 62 | 0.0 | 1.6 | 2.1 | 1.1 | 1.4 |
| Padidan | 39.7 | 40.5 | 197.8 | 66 | 0.0 | 0.2 | 0.3 | 1.7 | 2.0 |
| Panjgur | 36.4 | 38.0 | 165.5 | 29 | 0.0 | 0.0 | 0.9 | 3.7 | 11.7 |
| Parachinar | 29.7 | 30.5 | 140.4 | 69 | 22.0 | 3.9 | 4.7 | 3.0 | 3.0 |
| Pasni | 32.8 | 33.0 | 172.0 | 88 | 0.0 | 4.3 | 0.0 | 0.9 | 9.3 |
| Pattan | 37.7 | 40.0 | 170.0 | 50 | 16.0 | 1.4 | 3.3 | 0.0 | 2.6 |
| Peshawar | 35.8 | 37.5 | 177.5 | 66 | 0.0 | 1.4 | 3.0 | 0.9 | 2.3 |
| Quetta | 33.4 | 34.5 | 136.1 | 24 | 0.0 | 0.0 | 1.8 | 1.8 | 3.1 |
| Rahim Yar Khan | 40.6 | 42.8 | 198.8 | 59 | 0.0 | 1.0 | 0.0 | 1.4 | 1.1 |
| Rawalakot | 26.5 | 27.0 | 106.8 | 79 | 0.0 | 1.4 | 5.9 | 0.0 | 1.4 |
| Rawalpindi | 35.2 | 37.0 | 172.7 | 69 | 6.4 | 1.1 | 2.1 | 0.5 | 1.4 |
| Rohri | 40.2 | 42.0 | 205.8 | 54 | 0.0 | 0.0 | 0.4 | 2.3 | 0.9 |
| Sahiwal | 37.9 | 40.2 | 189.6 | 62 | 0.0 | 2.0 | 1.9 | 1.1 | 2.6 |
| Saidu Sharif | 33.7 | 34.7 | 146.6 | 62 | 29.0 | 1.0 | 1.4 | 0.0 | 0.0 |
| Sialkot | 34.6 | 36.7 | 178.0 | 73 | 1.0 | 2.3 | 2.0 | 1.7 | 5.1 |
| Sibbi | 42.4 | 45.0 | 197.3 | 62 | 0.0 | 0.0 | 0.4 | 2.0 | 4.9 |
| Skardu | 28.4 | 33.7 | 113.5 | 52 | 0.2 | 3.1 | 5.6 | 0.0 | 1.7 |
| Tandojam | 37.6 | 38.5 | 186.3 | 66 | 0.0 | 0.9 | 1.9 | 2.8 | 3.2 |
| Usta.M | 37.2 | 39.0 | 194.2 | 67 | 0.0 | 1.0 | 1.7 | 2.3 | 5.1 |
| Zhob | 36.3 | 38.0 | 166.8 | 37 | 0.0 | 0.7 | 0.9 | 4.3 | 4.7 |

*** 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 سبب باب (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)