

# Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall Distribution (mm) during the  
Previous Week (from 10<sup>th</sup> to 16<sup>th</sup> October, 2016)**

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## Highlights of Past Weather (from 10<sup>th</sup> to 16<sup>th</sup> October, 2016)

Slightly above normal day time temperature was reported in most parts of the country during the week.

Province wise distribution of rainfall reported as follows:

- Dry weather was reported in the whole country during the week.

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**Editor: Asma Jawad Hashmi (Deputy Director)**

## Past Weather of Provinces (from 10<sup>th</sup> to 16<sup>th</sup> October, 2016)

### Punjab

Dry weather was reported in Punjab during the week. Weekly maximum and minimum temperatures recorded as 34.9°C & 18.6°C respectively. For the present season on average 152.1 growing degree days were accumulated by the end of the last week. Average relative humidity recorded as 50% and wind speed in the morning/evening recorded as 0.6/1.8 Knots. During the previous week the highest maximum temperature was recorded as 39.7°C at Rahim Yar Khan.

### Sindh

Dry weather was reported in Sindh during the week. Weekly maximum and minimum temperatures recorded as 36.2°C & 21.5°C respectively. For the present season, on average 166.5 growing degree days were accumulated by the end of last week. Average relative humidity recorded as 56% and wind speed in the morning/evening recorded as 1.4/3.9 Knots. During the previous week the highest maximum temperature recorded as 39.5°C at Nawabshah.

### Khyber Pakhtunkhwa

Dry weather was reported in Khyber Pakhtunkhwa during the week. Weekly maximum and minimum temperatures recorded as 30.3°C & 13.7°C respectively. For the present season on average 118.7 growing degree days were accumulated by the end of last week. Average relative humidity recorded as 48% and wind speed in the morning/evening recorded as 0.5/2.5 Knots. During the previous week the highest maximum temperature recorded as 37.0°C at D.I.Khan.

### Balochistan

Dry weather was reported in Balochistan during the week. Weekly maximum and minimum temperatures recorded as 33.1°C & 15.8°C respectively. For the present season on average 142.3 growing degree days were accumulated by the end of last week. Average relative humidity recorded as 39% and wind speed in the morning/evening recorded as 1.2/4.5 Knots. During the previous week the highest maximum temperature was recorded as 42.0°C at Turbat.

### Gilgit-Baltistan and Azad Jammu & Kashmir

Dry weather was reported in Gilgit-Baltistan & Kashmir regions during the week. Weekly maximum and minimum temperatures recorded as 26.8°C & 10.0°C respectively. For the present season on average 93.8 growing degree days were accumulated by the end of last week. Average relative humidity recorded as 43% and wind speed in the morning/evening recorded as 0.4/1.3 Knots. During the previous week the highest maximum temperature recorded as 33.6°C at Kotli.

**Past Weather for Major Agricultural Plains  
(from 10<sup>th</sup> to 16<sup>th</sup> October, 2016)****Rawalpindi (Potohar region)**

Dry weather was reported during the week; cloudiness in the morning/evening recorded as 0.0/0.0Oktas while, average relative humidity observed as 33%. Mean day time temperature recorded as 33.0°C & for the present season 138.6 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.3 Knots.

**Faisalabad (Central Punjab)**

Dry weather was reported during the week; however cloudiness in the morning/evening recorded as 0.0/0.0Oktas while, average relative humidity observed as 56%. Mean day time temperature recorded as 35.7°C & for the present season 153.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/0.5 Knots.

**Tandojam (Lower Sindh)**

Dry weather was reported during the week; however cloudiness in the morning/evening recorded as 1.4/0.0Oktas while, average relative humidity observed as 65%. Mean day time temperature recorded as 37.0°C & for the present season 168.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.2/1.5 Knots.

**Quetta (Northern Baluchistan)**

Dry weather was reported during the week; however cloudiness in the morning/evening recorded as 0.0/0.0 Oktas while, average relative humidity observed as 24%. Mean day time temperature recorded as 25.8°C & for the present season 82.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.8/2.6 Knots.

**Usta Muhammad (Eastern Balochistan)**

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.0/0.0 Oktas while, average relative humidity observed as 64%. Mean day time temperature recorded as 35.7°C & for the present season 150.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/4.0 Knots.

**Past Weather for Sub-Regional Agricultural  
Plains (from 10<sup>th</sup> to 16<sup>th</sup> October, 2016)****Multan**

Dry weather was reported during the week; however cloudiness in the morning/evening recorded as 0.0/0.0 Oktas while, average relative humidity observed as 41%. Mean day time temperature recorded as 35.4°C & for the present season 165.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/4.3 Knots.

**Lahore**

Dry weather was reported during the week; cloudiness in the morning/evening recorded as 0.0/0.0 Oktas while, average relative humidity observed as 48%. Mean day time temperature recorded as 34.2°C & for the present season 155.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/3.1 Knots.

**Zhob**

Dry weather was reported during the week; however cloudiness in the morning/evening recorded as 0.0/0.0Oktas while, average relative humidity observed as 36%. Mean day time temperature recorded as 30.1°C & for the present season 116.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 4.3/5.0 Knots.

**D.I. Khan**

Dry weather was reported during the week; cloudiness in the morning/evening recorded as 0.0/0.0 Oktas while, average relative humidity observed as 54%. Mean day time temperature recorded as 35.4°C & for the present season 151.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.6 Knots.

**Peshawar**

Dry weather was reported during the week; cloudiness in the morning/evening recorded as 0.0/0.3 Oktas while, average relative humidity observed as 55%. Mean day time temperature recorded as 33.6°C & for the present season 145.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/1.1 Knots.

**Murree**

Dry weather was reported during the week; cloudiness in the morning/evening recorded as 0.0/0.0 Oktas while, average relative humidity observed as 47%. Mean day time temperature recorded as 22.1°C & for the present season 85.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.6/0.0 Knots.

**Kalam**

Dry weather was reported during the week, cloudiness in the morning/evening recorded as 0.0/2.7 Oktas while, average relative humidity observed as 51%. Mean day time temperature recorded as 22.9°C & for the present season 59.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/1.4 Knots.

**Gilgit**

Dry weather was reported during the week, cloudiness in the morning/evening recorded as 0.3/3.3 Oktas while, average relative humidity observed as 48%. Mean day time 85.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.0 Knots.

**Skardu**

Dry weather was reported during the week; cloudiness in the morning/evening recorded as 0.4/2.7 Oktas while, average relative humidity observed as 43%. Mean day time temperature recorded as 22.3°C & for the present season 43.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.0 Knots.

**Crop Situation for Major Agricultural Plains  
(Based on data from Regional Agromet Centres)****Potohar Region (Rawalpindi)**

There is presently one crop (irrigated condition) grown in the fields of RAMC Rawalpindi.

**Maize:** Good condition at *Wax maturity* stage.

**Central Punjab (Faisalabad)**

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

**Cotton:** Very good condition at *Maturity* stage completed.

**Lower Sindh (Tandojam)**

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

**Cotton:** Good condition at *Maturity* stage.

**Northern Balochistan (Quetta)**

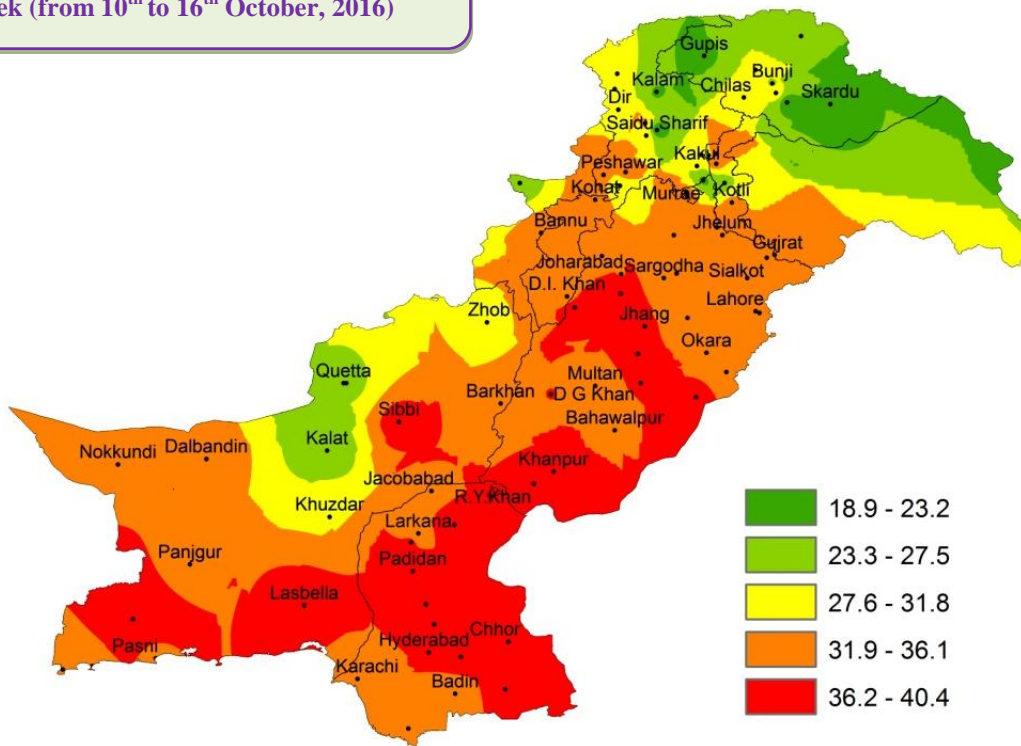
There is presently no crop grown in the fields of RAMC Quetta.

**Eastern Balochistan (Usta Muhammad)**

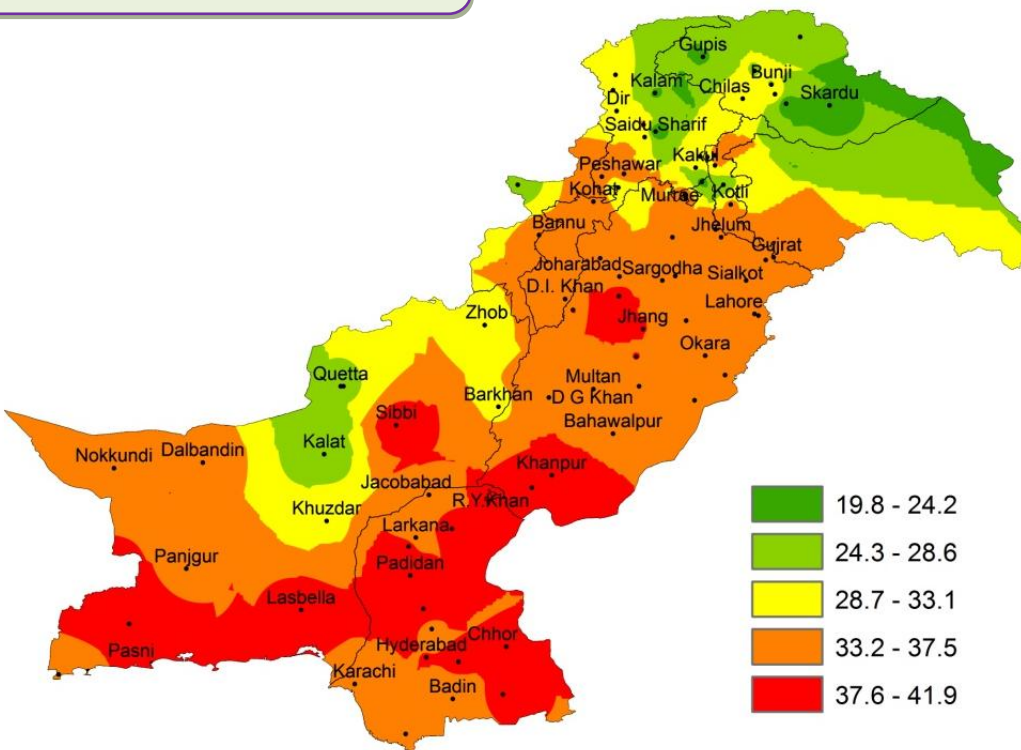
There is presently one crop (irrigated condition) grown in the fields of RAMC Usta Muhammad.

**Rice:** Good condition at *Wax maturity* stage.

Mean Maximum Temperature (°C) during the Previous week (from 10<sup>th</sup> to 16<sup>th</sup> October, 2016)

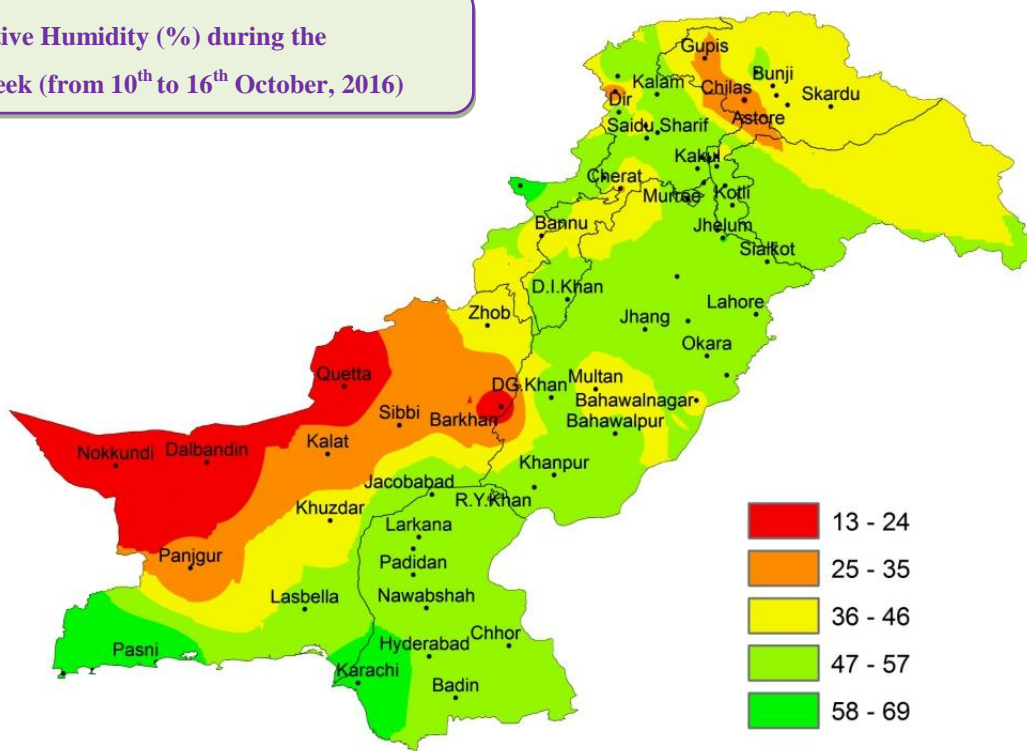


Highest Maximum Temperature (°C) during the Previous week (from 10<sup>th</sup> to 16<sup>th</sup> October, 2016)

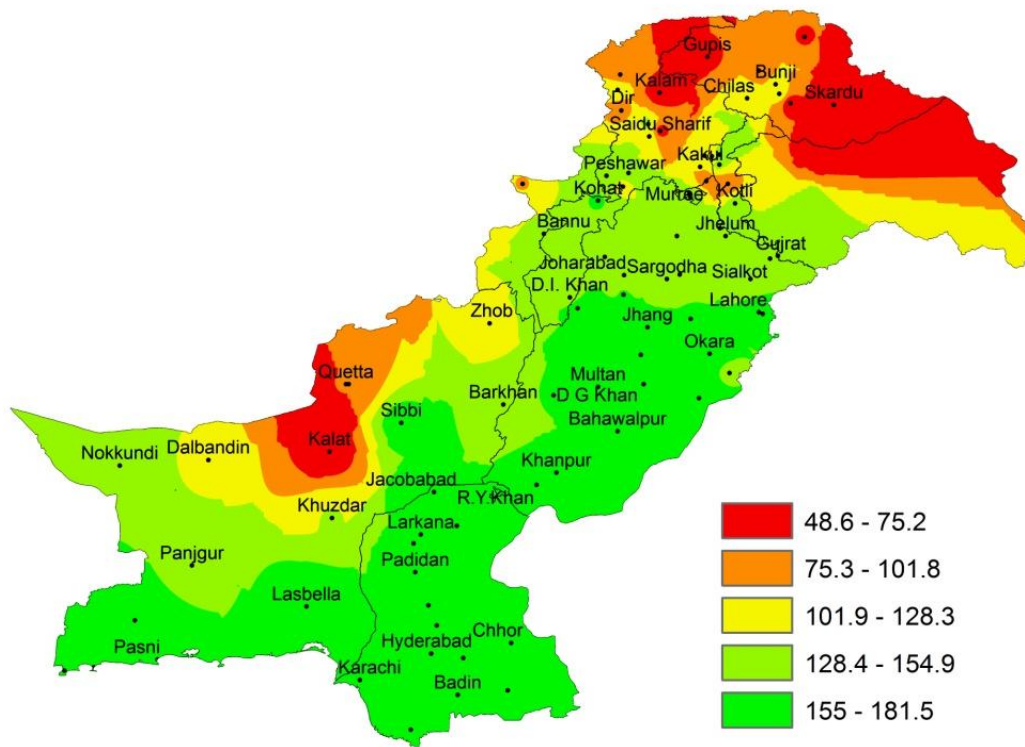




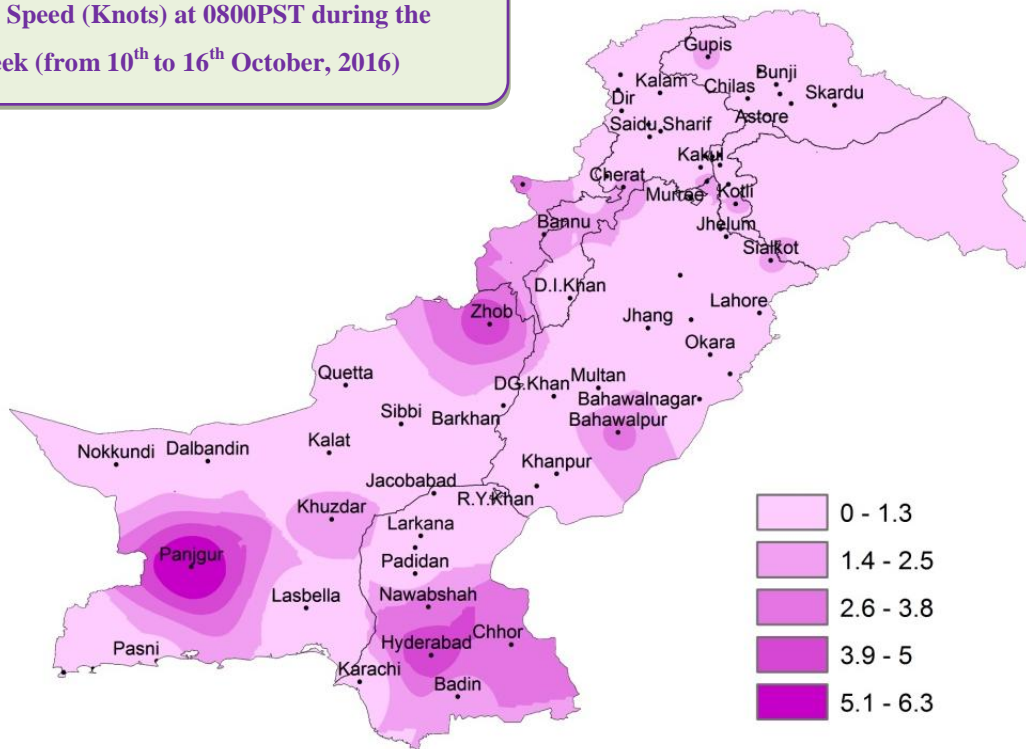
Mean Relative Humidity (%) during the Previous week (from 10<sup>th</sup> to 16<sup>th</sup> October, 2016)



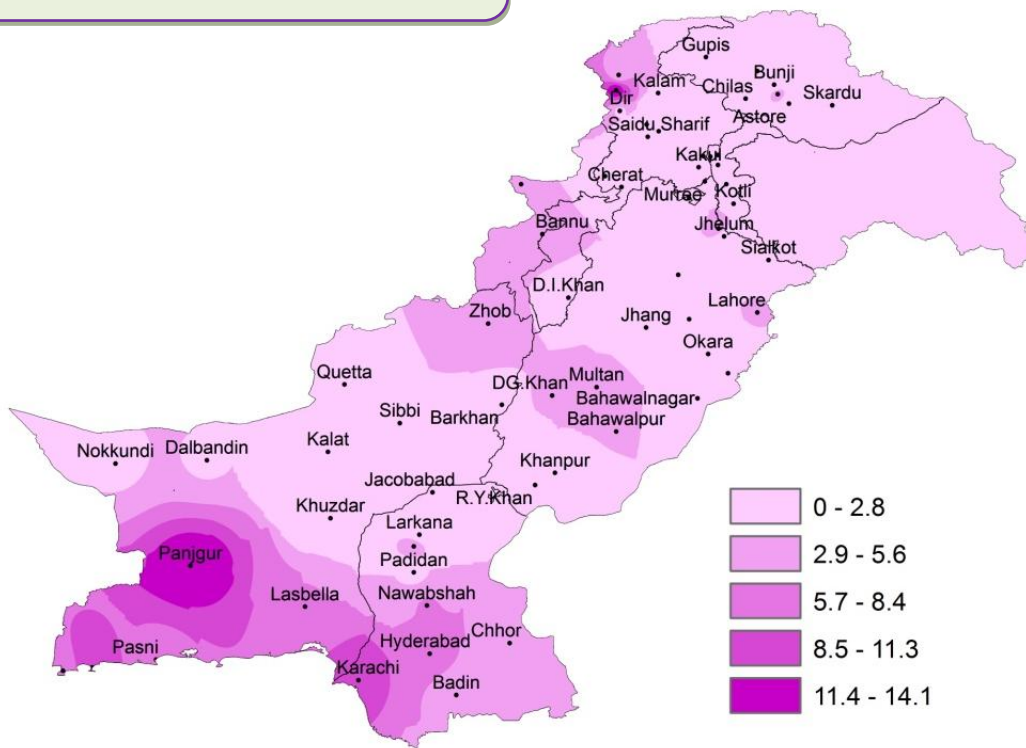
Total Growing Degree Days accumulated during the Previous week (from 10<sup>th</sup> to 16<sup>th</sup> October, 2016)



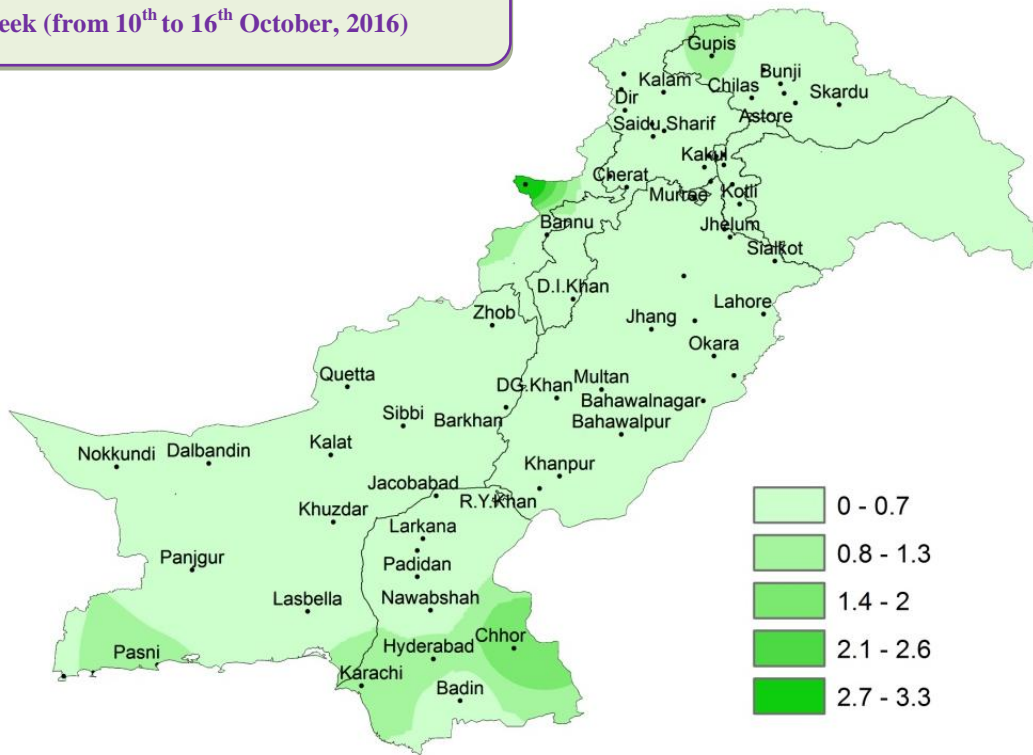
Mean Wind Speed (Knots) at 0800PST during the Previous week (from 10<sup>th</sup> to 16<sup>th</sup> October, 2016)



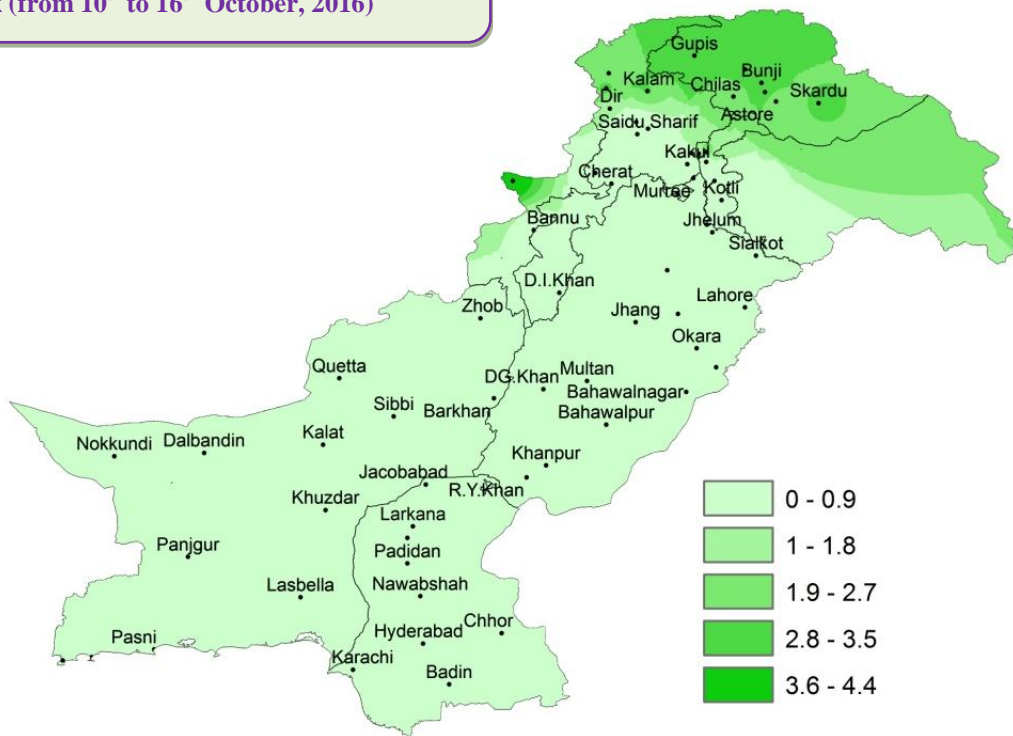
Mean Wind Speed (Knots) at 1200PST during the Previous week (from 10<sup>th</sup> to 16<sup>th</sup> October, 2016)



Mean Cloudiness (Oktas) at 0800PST during the Previous week (from 10<sup>th</sup> to 16<sup>th</sup> October, 2016)



Mean Cloudiness (Oktas) at 1200 PST during the Previous week (from 10<sup>th</sup> to 16<sup>th</sup> October, 2016)





**Weekly Weather Advisory for Farmers****(From 17<sup>th</sup> to 23<sup>rd</sup> October, 2016)**

Continental air would prevail over most parts of the country. However a shallow westerly trough is likely to approach northern parts of the country on Wednesday.

**MONDAY****17-10-2016**

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

**TUESDAY****18-10-2016**

Mainly dry weather is expected in most parts and hot in plain areas of the country with a few chances of rain-thunderstorm in Malakand, Hazara, Rawalpindi divisions, Islamabad and Gilgit-Baltistan.

**WEDNESDAY****19-10-2016**

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

**THURSDAY****20-10-2016**

Mainly dry weather is expected in most parts and hot in plain areas of the country. However, rain-thunderstorm is expected at a few places in Malakand, Hazara divisions and Gilgit-Baltistan.

**FRIDAY****21-10-2016**

Mainly dry weather is expected in most parts and hot in plain areas of the country. However, rain-thunderstorm is expected at a few places in Malakand, Hazara, Rawalpindi divisions, Islamabad, Gilgit-Baltistan and Kashmir.

**SATURDAY****22-10-2016**

Mainly dry weather is expected in most parts and hot in plain areas of the country. However, rain-thunderstorm is expected at a few places in Kashmir and its adjoining hilly areas.

**SUNDAY****23-10-2016**

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

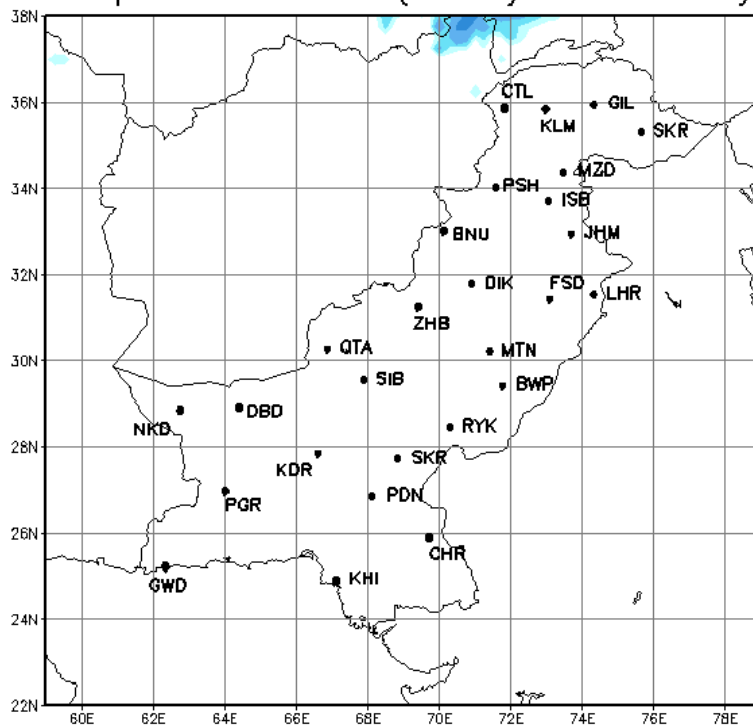
**ADVISES FOR CROPS**

- ❖ Farmers obtaining crop water through tube wells are advised to schedule the irrigation according to the expected weather mentioned during the week.
- ❖ Farmers are advised to control further weeds growth at the present growing stages to stop any negative impact on the crops. Weeds removing practices should be started soon after expected rains in the mentioned.
- ❖ Pest/viral attacks are expected over cotton and sugarcane crops during hot and humid conditions during monsoon. Farmers should be very careful and take in time precautionary measures in this regard.

## Weather Outlook from 17<sup>th</sup> to 23<sup>rd</sup> October, 2016

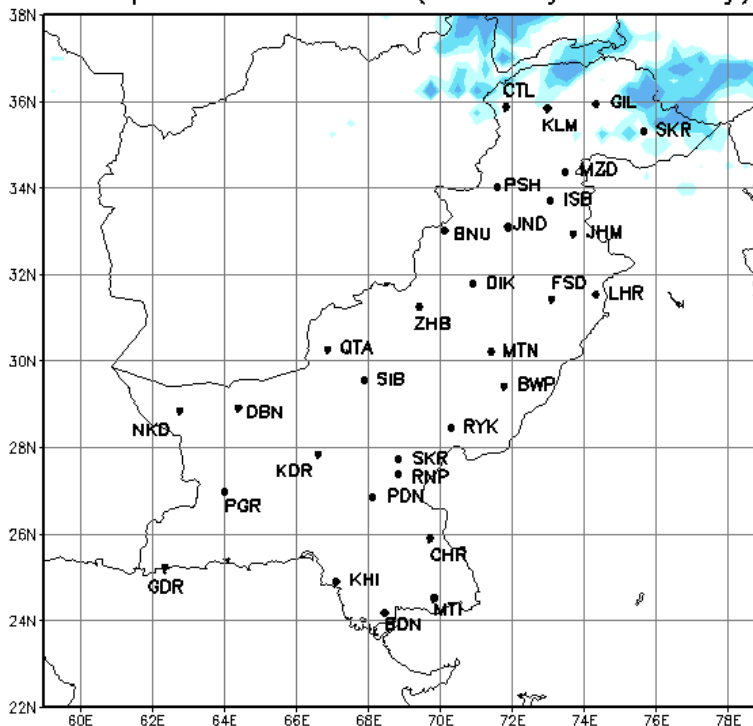
The outlook from 17<sup>th</sup> to 19<sup>th</sup> October, 2016 shows that dry weather is expected everywhere in the country.

Precipitation Forecast (Monday to Wednesday)



The outlook from 20<sup>th</sup> to 23<sup>rd</sup> October, 2016 shows that dry and hot weather is expected in most parts of the country. However, rain-thunderstorm is expected at a few places in upper KP and Gilgit-Baltistan.

Precipitation Outlook (Thursday to Sunday)



**National Weather Data of Selected Cities**  
**(Weekly Data from 10<sup>th</sup> to 16<sup>th</sup> October, 2016)**

Stations	Maximum/Day time Temperature (°C)		Growing Degree Days	Relative Humidity (%)	Rainfall (mm)	Cloudiness (Oktas) 0800PST	Cloudiness (Oktas) 1700PST	Wind Speed (Knots) 0800PST	Wind Speed (Knots) 1700PST
	Mean	Highest							
Astore	19.9	21.0	52.5	35	0.0	0.4	2.0	0.7	1.4
Badin	35.1	35.5	174.8	53	0.0	0.0	0.0	1.7	3.4
Bahawalnagar	36.4	37.0	167.0	45	0.0	0.0	0.0	0.0	0.9
Bahawalpur	36.1	37.2	161.5	47	0.0	0.0	0.0	2.9	2.9
Balakot	30.6	31.0	113.8	56	0.0	0.0	0.4	0.0	0.0
Bannu	34.3	35.0	134.0	42	0.0	0.0	0.0	1.7	4.9
Barkhan	32.1	32.5	134.3	20	0.0	0.0	0.0	0.9	1.1
Bunji	27.1	28.3	103.1	46	0.0	0.6	3.6	0.6	1.1
Cherat	27.1	29.0	119.5	34	0.0	0.3	0.0	2.0	2.3
Chhor	36.6	37.5	170.4	55	0.0	1.9	0.0	3.1	3.1
Chilas	30.0	31.5	128.0	23	0.0	0.0	1.9	0.0	0.6
Chitral	28.2	29.4	92.4	56	0.0	0.0	2.3	0.0	2.6
D.I.Khan	35.4	37.0	151.5	54	0.0	0.0	0.0	0.0	0.6
Dalbandin	34.7	36.0	121.8	15	0.0	0.0	0.0	0.0	2.3
DG.Khan	36.2	36.7	157.6	54	0.0	0.0	0.0	0.6	3.4
Dir	29.8	30.0	91.5	51	0.0	0.0	1.0	0.0	2.1
Drosh	30.5	31.2	115.0	23	0.0	0.0	2.9	0.0	14.1
Faisalabad	35.7	38.6	153.9	56	0.0	0.0	0.0	0.6	0.5
Garidopatta	32.6	33.0	130.3	48	0.0	0.0	0.0	0.0	2.3
Gawader	34.8	36.0	168.0	69	0.0	1.1	0.0	0.0	10.7
Gilgit	27.6	28.5	85.9	48	0.0	0.3	3.3	0.0	0.0

Gupis	22.1	24.0	68.0	34	0.0	1.0	3.4	1.4	2.3
Hyderabad	36.2	37.5	167.3	57	0.0	1.0	0.0	4.9	7.4
Islamabad	33.1	34.0	130.9	51	0.0	0.0	0.0	0.0	0.9
Jacobabad	35.0	36.0	158.3	55	0.0	0.0	0.0	0.0	1.1
Jhang	36.3	37.5	158.0	51	0.0	0.0	0.0	0.3	0.3
Jhelum	34.7	35.0	148.8	59	0.0	0.0	0.0	0.0	0.6
Jiwani	33.5	37.0	169.8	61	0.0	0.0	0.0	0.7	6.9
Kakul	28.3	29.0	103.8	51	0.0	0.0	0.3	0.0	0.9
Kalam	22.9	24.0	59.5	51	0.0	0.0	2.7	0.0	1.4
Kalat	23.7	25.0	48.6	26	0.0	0.0	0.5	0.0	1.0
Karachi	34.1	36.5	169.2	63	0.0	1.3	0.3	0.0	10.0
Khanpur	36.4	38.0	160.7	52	0.0	0.0	0.3	0.0	1.1
Khuzdar	31.7	32.0	130.0	42	0.0	0.0	0.0	2.0	0.9
Kotli	32.9	33.6	138.9	48	0.0	0.0	0.0	1.7	2.3
Lahore	34.2	34.6	155.8	48	0.0	0.0	0.0	0.0	3.1
Larkana	35.2	35.5	155.8	56	0.0	0.0	0.0	0.9	2.0
Lasbella	38.4	39.0	174.9	48	0.0	0.0	0.0	0.0	6.3
Lower Dir	33.1	34.0	137.0	42	0.0	0.0	0.3	0.9	1.1
M.B Din	34.9	35.5	152.6	56	0.0	0.0	0.0	0.0	0.3
Malam Jabba	18.6	19.5	57.0	54	0.0	0.0	0.3	0.0	0.0
Mangla	34.6	36.0	145.0	47	0.0	0.0	0.1	0.0	4.6
Mir Khani	30.9	32.5	126.2	39	0.0	0.0	3.0	0.0	3.7
Moinjodaro	36.3	38.5	155.5	54	0.0	0.0	0.0	0.9	3.4
Multan	35.4	36.5	165.4	41	0.0	0.0	0.0	0.6	4.3
Murree	22.1	23.0	85.0	47	0.0	0.0	0.0	2.6	0.0
Muzaffarabad	31.0	31.4	120.3	50	0.0	0.0	1.6	0.0	0.7



Nawabshah	37.9	39.5	171.1	56	0.0	0.4	0.0	3.7	5.9
Nokkundi	35.2	36.0	146.5	13	0.0	0.0	0.3	0.0	2.0
Okara	35.9	36.5	162.1	56	0.0	0.0	0.0	0.0	0.0
Padidan	37.7	39.5	168.0	55	0.0	0.0	0.2	0.3	2.0
Panjgur	34.6	36.0	140.0	26	0.0	0.0	0.0	6.3	14.0
Parachinar	24.3	25.3	100.8	62	0.0	3.3	4.4	2.6	3.0
Pasni	35.3	39.0	162.5	67	0.0	0.7	0.0	0.9	6.3
Pattan	33.8	34.5	136.3	44	0.0	0.0	2.3	0.0	2.0
Peshawar	33.6	34.8	145.0	55	0.0	0.0	0.3	0.3	1.1
Quetta	25.8	37.5	82.8	24	0.0	0.0	0.0	1.8	2.6
R.Y.Khan	37.9	39.7	166.2	53	0.0	0.0	0.0	0.6	2.3
Rawalakot	25.5	26.0	76.8	56	0.0	0.0	0.3	0.0	1.1
Rawalpindi	33.0	33.3	138.6	33	0.0	0.0	0.0	0.0	0.3
Sahiwal	35.7	36.0	152.1	50	0.0	0.0	0.0	0.6	0.9
Saidu Sharif	31.6	32.7	124.2	48	0.0	0.0	0.0	0.0	0.0
Sialkot	33.1	33.5	146.0	56	0.0	0.0	0.0	1.4	0.9
Sibbi	38.5	40.5	175.8	32	0.0	0.0	0.0	0.0	2.3
Skardu	22.3	23.6	54.0	43	0.0	0.4	2.7	0.0	0.0
Tandojam	37.0	37.5	168.3	65	0.0	1.4	0.0	2.2	1.5
Usta.M	35.7	37.5	150.5	64	0.0	0.0	0.0	0.6	4.0
Zhob	30.1	30.9	116.2	36	0.0	0.0	0.0	4.3	5.0

\*\*\* 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 سدباب (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)