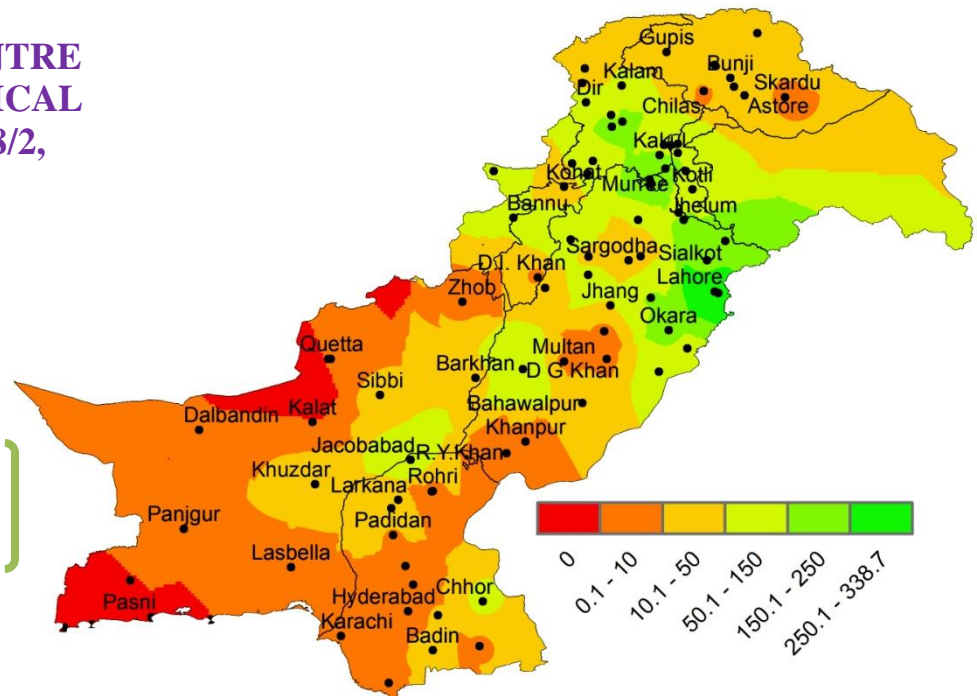


Weekly Weather and Crop Bulletin for Pakistan

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Rainfall distribution (mm) during the Last week (from 12th to 18th August, 2013)

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Highlights of Past Weather (from 12th to 18th August, 2013)

Light to Moderate rainfall with isolated heavy to very heavy spells reported from a number of places in the Punjab, Khyber Pakhtunkhwa Provinces and Kashmir regions while Light to Moderate rainfall reported from a few places in Balochistan Province, and a number of places in the Sindh Province and Gilgit Baltistan regions.

Pattern-in-Chief: Arif Mahmood (Director General)
Chief Editor: Dr. Khalid Mehmood Malik (Director)
Editor: Tahir Mehmood (Assistant Meteorologist)

Punjab

Light to Moderate rainfall with isolated heavy to very heavy spells reported from a number of places in the Punjab Province during the week. Weekly maximum temperature and minimum temperature recorded as 31.8°C & 24.6°C respectively. For the present season on average 161.4 growing degree days accumulated by the end of last week. Average relative humidity recorded as 83% and wind speed in the morning/evening recorded as 1.4/3.2 Knots. During the previous week highest amount of rainfall reported at Lahore as 246.0 mm and extreme maximum temperature recorded as 40.0°C at the D.G Khan.

Sindh

Light to Moderate rainfall reported a number of places in the Sindh Province during the week. Weekly maximum temperature and minimum temperature recorded as 35.4°C & 27.1°C respectively. For the present season on average 184.9 growing degree days accumulated by the end of last week. Average relative humidity recorded as 74% and wind speed in the morning/evening recorded as 3.5/5.0 Knots. During the previous week highest amount of rainfall reported at Jacobabad as 99.0 mm and Extreme maximum temperature recorded as 41.5°C at Sukkur.

Khyber Pakhtunkhwa

Light to Moderate rainfall with isolated heavy to very heavy spells reported from a number of places in the Khyber Pakhtunkhwa Province during the week. Weekly maximum temperature and minimum temperature recorded as 30.4°C & 19.7°C respectively. For the present season on average 138.3 growing degree days accumulated by the end of last week. Average relative humidity

recorded as 74% and wind speed in the morning/evening recorded as 0.5/3.4 Knots. During the previous week the highest rainfall recorded at Saidu Sharif as 194.1mm and extreme maximum temperature recorded as 38.0°C at D.I Khan.

Balochistan

Light to Moderate rainfall reported from a few places in Balochistan Province during the week. Weekly maximum temperature and minimum temperature recorded as 35.0°C & 23.2°C respectively. For the present season on average 166.2 growing degree days accumulated by the end of last week. Average relative humidity recorded as 53% and wind speed in the morning/evening recorded as 1.9/5.7 Knots. During the previous week highest amount of rainfall reported at Barkhan as 40.0 mm and Extreme maximum temperature recorded as 43.0 °C at Dalbandin.

Gilgit Baltistan and Azad Jammu & Kashmir

Light to Moderate rainfall with isolated heavy to very heavy spells reported from a number of places in the Kashmir regions while Light to Moderate rainfall reported from a number of places in the Gilgit Baltistan regions.. Weekly maximum temperature and minimum temperature recorded as 27.8°C & 18.2°C respectively. For the present season on average 123.5 growing degree days accumulated by the end of last week. Average relative humidity recorded as 70% and wind speed in the morning/evening recorded as 0.5/1.0 Knots. During the previous week the highest rainfall recorded at Garhi Dopatta as 150.0 mm and extreme maximum temperature recorded as 38.5°C at Chilas.

Past Weather for Major Agricultural Plains (from 12th to 18th August, 2013)

Rawalpindi (Potohar region)

Rainfall reported as 203.5mm during the week however cloudiness in the morning/evening 5.0/5.4 Oktas while average relative humidity observed as 87%. Mean day time temperature recorded as 29.9°C & for the present season 147.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/2.4 Km/h.

Faisalabad (Central Punjab)

Rainfall reported as 114.0mm during the week however cloudiness in the morning/evening as 5.4/6.6 Oktas while average relative humidity observed as 81%. Mean day time temperature recorded as 32.3°C & for the present season 166.6 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.3/3.4 Km/h.

Tandojam (Lower Sindh)

Rainfall reported as 56.0mm during the week, however cloudiness in the morning/evening as 4.0/4.0 Oktas while average relative humidity observed as 77%. Mean day time temperature recorded as 33.9°C & for the present season 175.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.6/5.0 Km/h.

Quetta (Northern Balochistan)

No rainfall reported during the week however cloudiness in the morning/evening as 4.3/4.4 Oktas while average relative humidity observed as 30%. Mean day time temperature observed as 18.9°C & for the present season 141.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.7/5.7 Km/h.

Usta Muhammad (Eastern Balochistan)

Rainfall reported as 17.0mm during the week, however cloudiness in the morning/evening as

4.4/3.6 Oktas while average relative humidity observed as 71%. Mean day time temperature recorded as 34.8°C & for the present season 170.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.1/0.2 Km/h.

Past Weather for Sub Regional Agricultural Plains (from 12th to 18th August, 2013)

Rohri

Rainfall reported as 9.0mm during the week, however cloudiness in the morning/evening as 4.0/2.3 Oktas while average relative humidity observed as 86%. Mean day temperature recorded as 36.8°C & for the present season 194.6 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 2.3/3.1 Knots.

Multan

Rainfall reported as 31.0mm during the week, however cloudiness in the morning/evening as 6.3/4.7 Oktas while average relative humidity observed as 72%. Mean day time temperature recorded as 34.9°C & for the present season 180.7 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 3.1/5.4 Knots.

Lahore

Rainfall reported as 327.0mm during the week however, cloudiness in the morning/evening as 7.1/7.4 Oktas while average relative humidity observed as 90%. Mean day time temperature recorded as 29.5°C & for the present season 150.8 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 1.7/6.3 Knots.

Zhob

No rainfall reported during the week however, cloudiness in the morning/evening as 3.7/4.0 Oktas while average relative humidity observed as 50%. Mean day temperature recorded as 33.5°C & for

the present season 158.8 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 5.0/6.1 Knots.

D.I. Khan

Rainfall reported as 0.1mm during the week however cloudiness in the morning/evening as 5.0/2.0 Oktas while average relative humidity observed as 77%. Mean day temperature 35.0°C & for the present season 171.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/2.0 Knots.

Peshawar

Rainfall reported as 64.0mm during the week however cloudiness in the morning/evening as 5.4/4.7 Oktas while average relative humidity observed as 77%. Mean day temperature recorded as 33.2°C & for the present season 165.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/2.3 Knots.

Murree

Rainfall reported as 198.0mm during the week however cloudiness in the morning/evening as 6.9/7.9 Oktas while average relative humidity observed as 95%. Mean day temperature recorded as 20.3°C & for the present season 88.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.1/0.9 Knots.

Kalam

Rainfall reported as 61.0mm during the week, however cloudiness in the morning/evening as 4.4/5.7 Oktas while average relative humidity observed as 77%. Mean day temperature recorded as 23.3°C & for the present season 111.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0/0 Knots.

Gilgit

Rainfall reported as 25.2mm during the week, however cloudiness in the morning/evening as 6.1/6.4 Oktas while average relative humidity

observed as 71%. Mean day temperature recorded as 29.0°C & for the present season 125.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening 0.3/3.6 Knots.

Skardu

Rainfall reported as 5.2mm during the week,, however cloudiness in the morning/evening as 5.4/7.3 Oktas while average relative humidity observed as 65%. Mean day temperature recorded as 25.9°C & for the present season 106.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0/0 Knots.

Crop Situation for major agricultural plains (based on data from Regional Agromet Centres)

Potohar Region (Rawalpindi)

There is only one crop (irrigated conditions) grown in the fields as detailed below.

Maize (Agati 2002): Good condition at *Emergence* stage.

Central Punjab (Faisalabad)

There are two crops (irrigated conditions) grown in the fields as detailed below.

Sugarcane: Very Good condition, *Tillering* stage completed.

Cotton: Normal condition at *Boll Opening* stage.

Lower Sindh (Tandojam)

There is only one crop (irrigated conditions) grown in the fields as detailed below.

Cotton(BT-3701): Good condition at *Boll Opening* stage.

Northern Balochistan (Quetta)

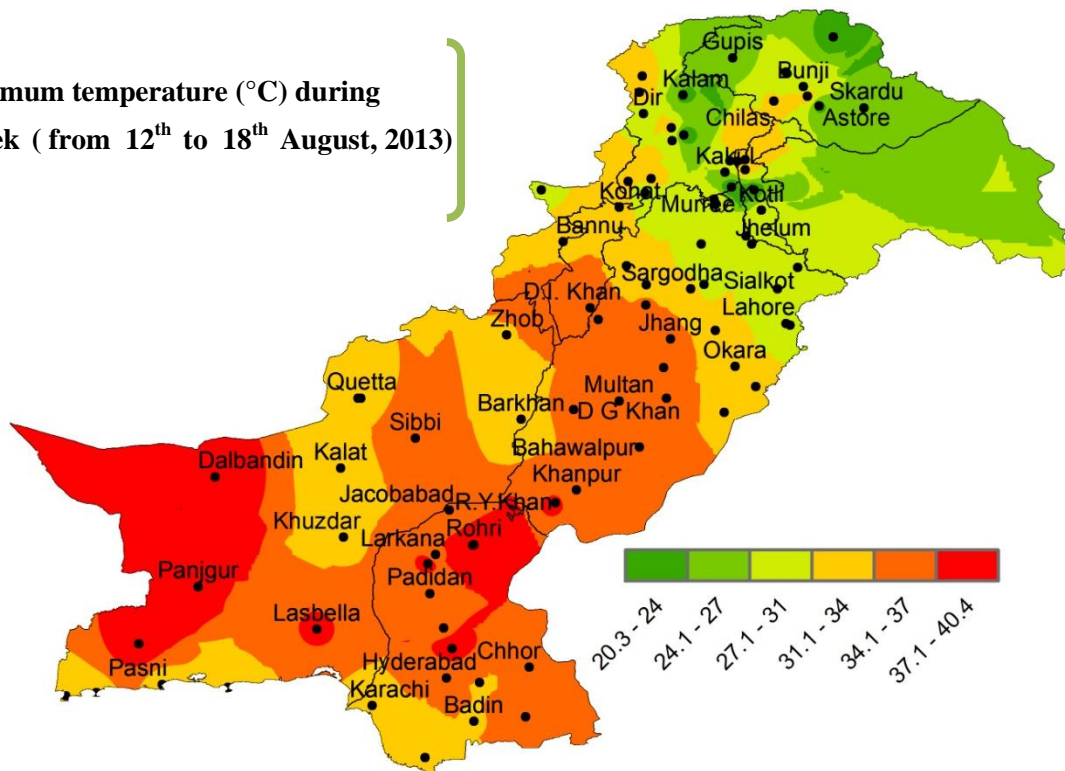
There is presently no crop in the fields.

Eastern Balochistan (Usta Muhammad)

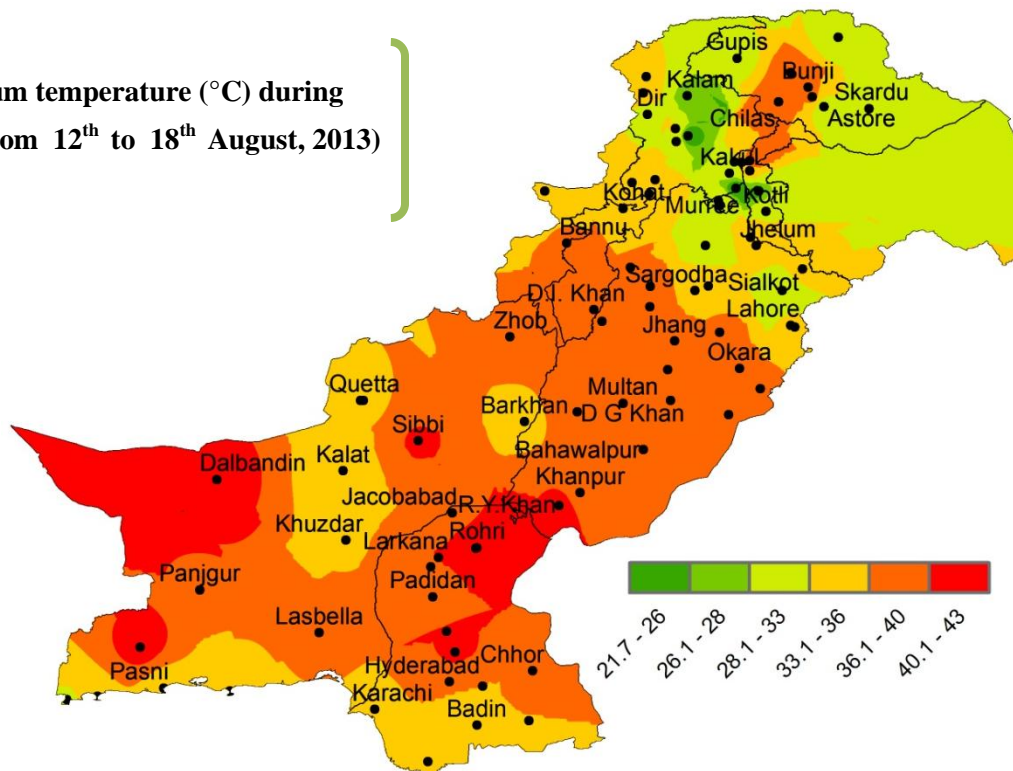
There is only one crop (irrigated conditions) grown in the fields as detailed below.

Rice: Good condition at *Tillering* stage .

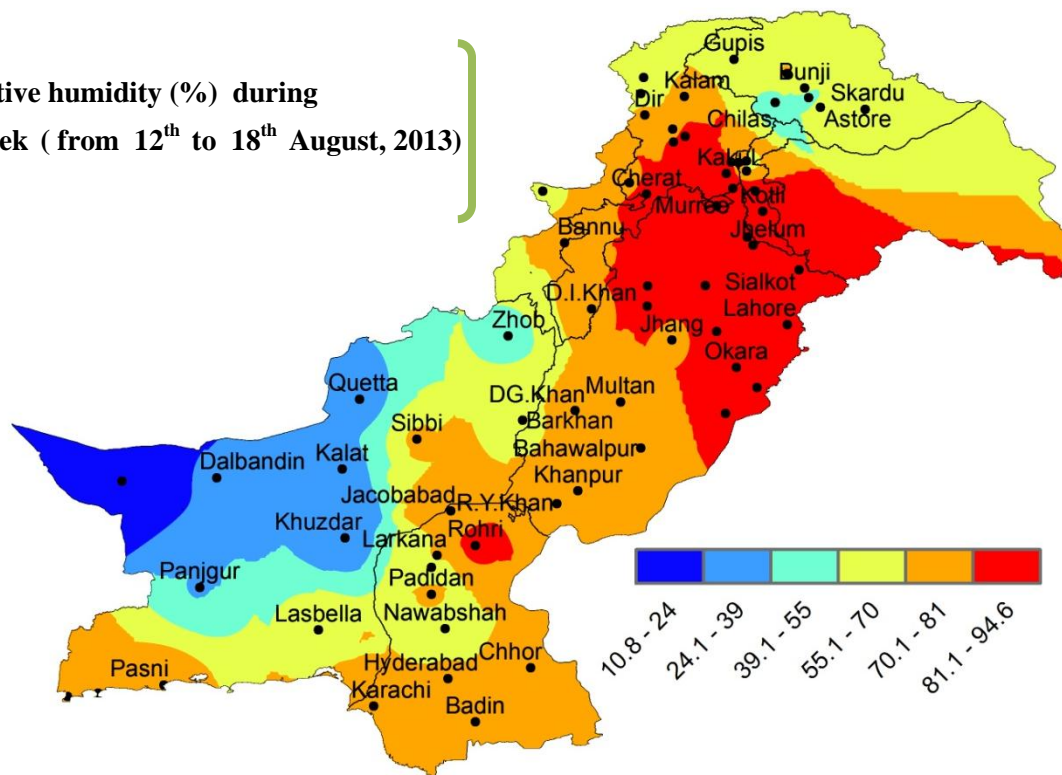
Mean maximum temperature (°C) during the last week (from 12th to 18th August, 2013)



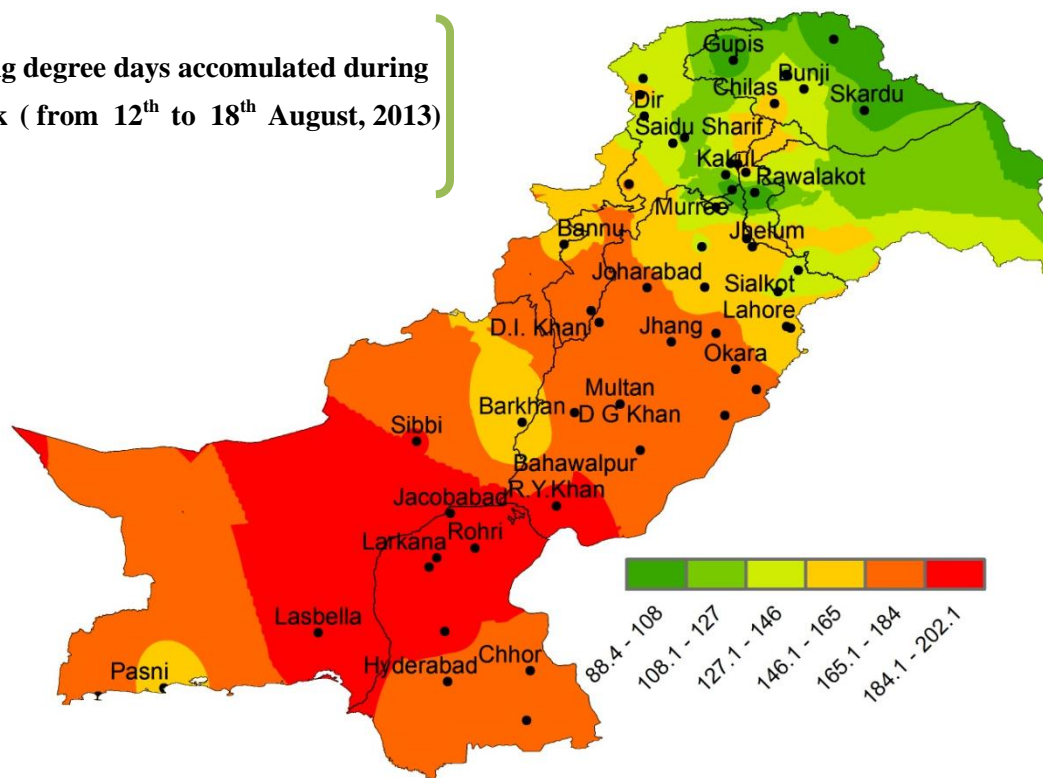
Extreme maximum temperature (°C) during the last week (from 12th to 18th August, 2013)



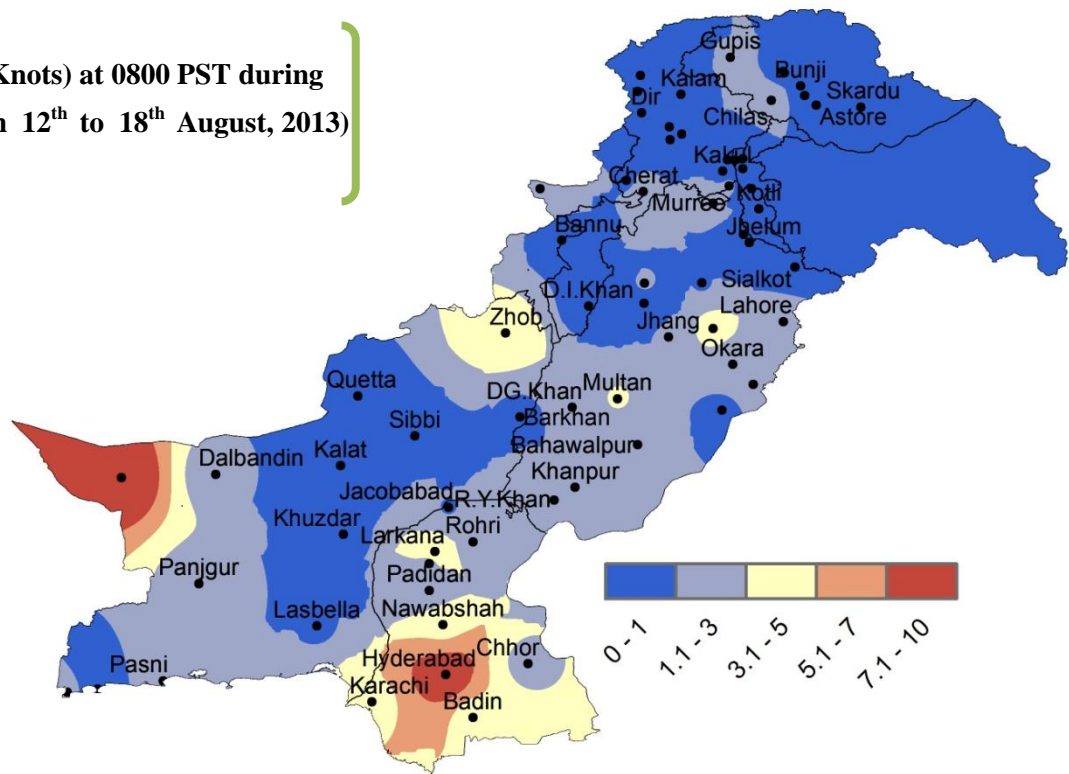
Mean relative humidity (%) during the last week (from 12th to 18th August, 2013)



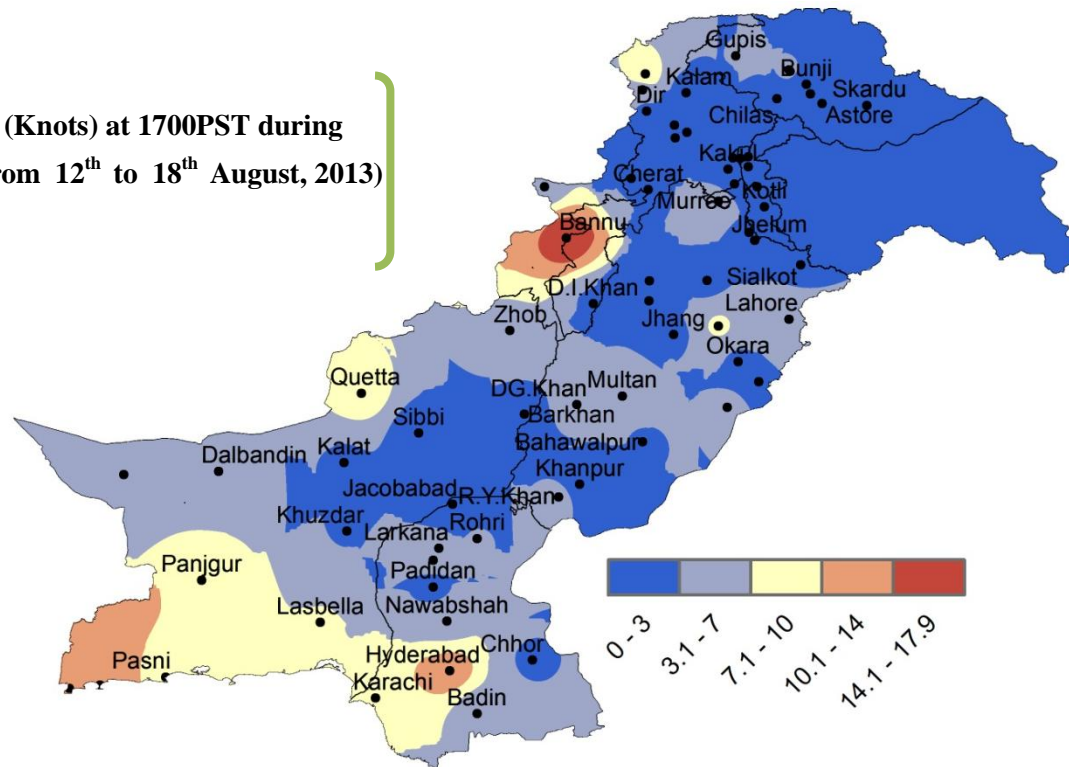
Total growing degree days accomulated during the last week (from 12th to 18th August, 2013)



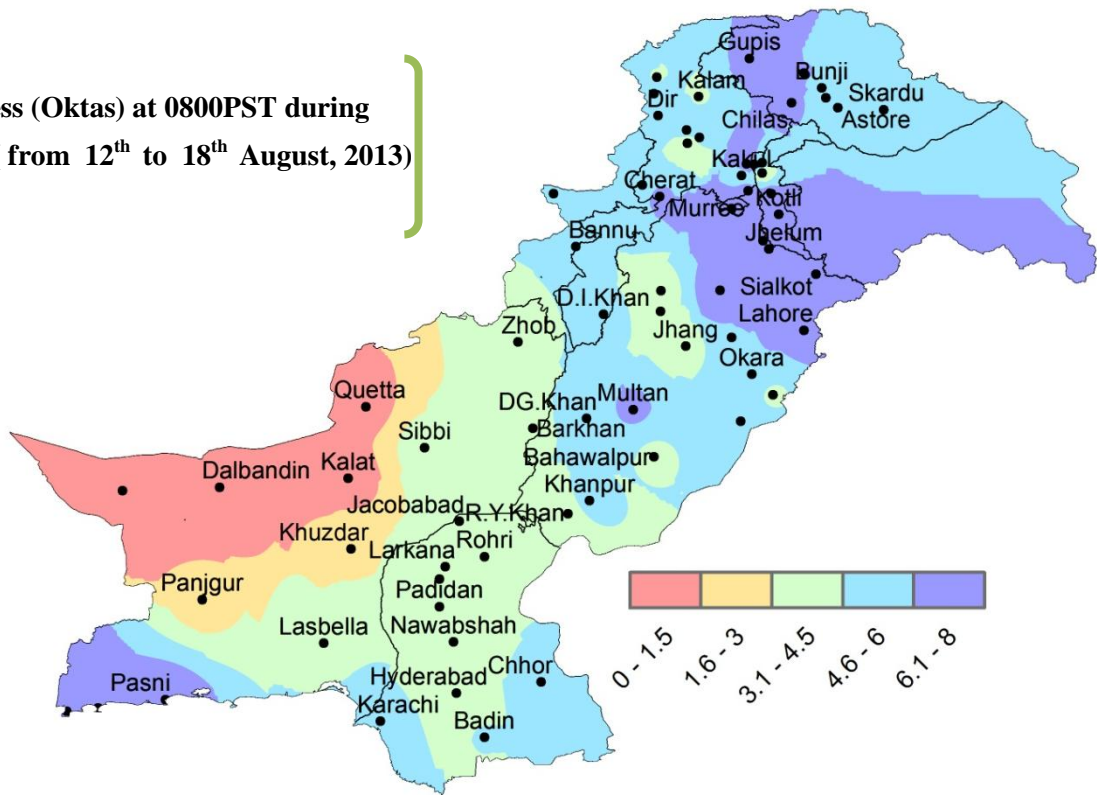
Mean wind speed (Knots) at 0800 PST during the last week (from 12th to 18th August, 2013)



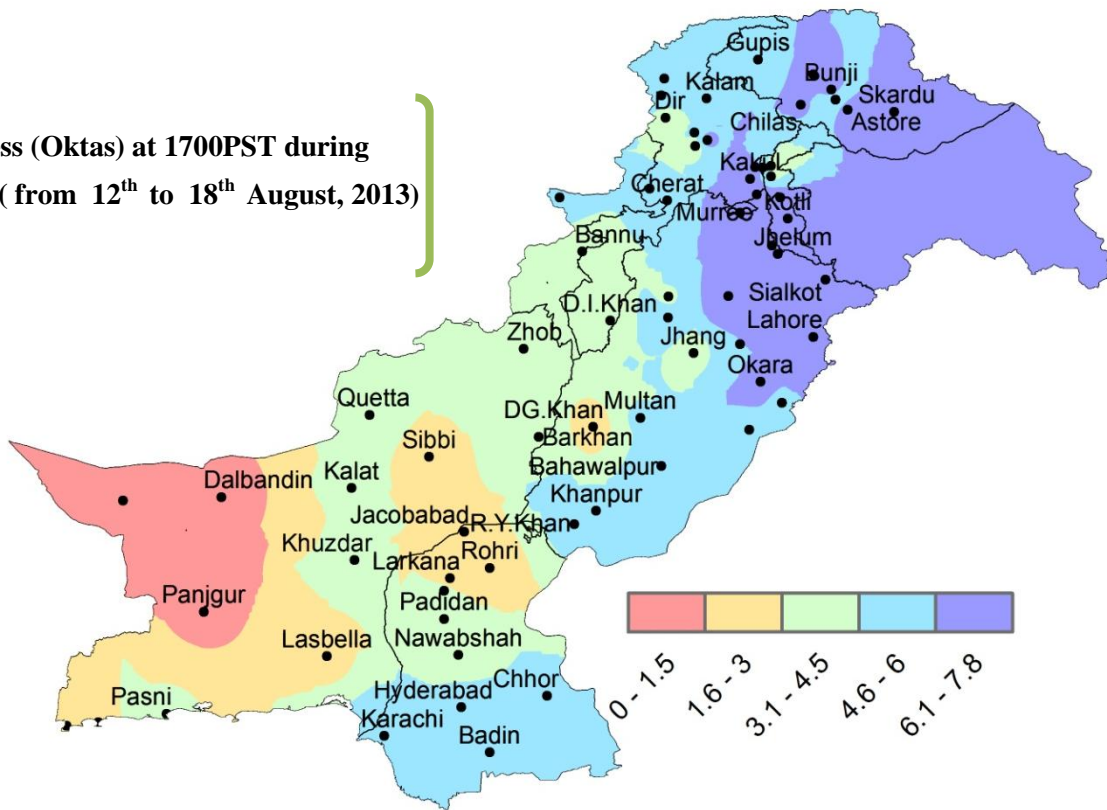
Mean wind speed (Knots) at 1700PST during the last week (from 12th to 18th August, 2013)



Mean Cloudiness (Oktas) at 0800PST during the last week (from 12th to 18th August, 2013)



Mean Cloudiness (Oktas) at 1700PST during the last week (from 12th to 18th August, 2013)



Weekly Weather advisory for Farmers (from 19th to 25th August, 2013)

The current westerly wave will prevail during next one to two days. Another westerly wave is likely to approach upper parts of the country during night of 23rd August. Monsoonal currents of weak intensity will continue to penetrate in upper parts of the country. And some currents are expected to approach Southeastern Sindh during the weekend.

Punjab including Islamabad:

Rain-thundershowers with occasional gaps would continue at isolated places in Islamabad & northeast Punjab (Rawalpindi, Gujranwala and Lahore divisions) during the week. Rain-thunderstorm may also occur at few places of South/Southeastern parts of Punjab with occasional gaps during the second half of the week.

Khyber Pakhtunkhwa:

Mainly hot and humid weather is expected in most parts of the province during the week.

Balochistan:

Mainly hot and humid weather is expected in most parts of the province during the week.

Sindh:

Mainly dry & windy weather is expected in most part of the province during the week. However, mostly cloudy weather conditions with chances of

isolated rain-thundershower is expected in Lower/Southeastern Sindh during the weekend.

Kashmir:

Scattered rain-thundershowers are also expected during first half of the week, while isolated rain-thunderstorm is also likely to occur in Kashmir during the second half of the week with occasional gaps.

Gilgit-Baltistan:

Mostly Cloudy with chances of rain-thunderstorm is expected at isolated places of GB during the first half of the week, while mostly dry/partly cloudy weather is expected in most parts of GB during the second half the week

Advises for Crops:

Sugarcane: Farmers are advised to manage irrigation practices as per weather prediction during the week.

General Information: Farmers of rainfed areas, obtaining crop water through tube wells are advised to schedule the irrigation according to the expected weather mentioned above during the week. It is advised to ensure field sanitation and spray prophylactic fungicidal sprays to prevent spread of diseases on vegetables. Farmers should also free the crops from excess of weeds after recent rains especially in upper half of the country.

National Weather Data of Selected Cities
(Weekly Data from 12th to 18th August, 2013)

Stations	Maximum/Day Temperature (°C)		Growing Deg. Days	Relative Humidity (%)	Rainfall (mm)	Cloudiness Oktas 0800PST	Cloudiness Oktas 1700PST	Wind Speed (Knots) 0800PST	Wind Speed (Knots) 1700PST
	Mean	Heighst							
Astore	22.6	29.6	***	68	19.2	5.9	7.0	0.3	1.1
Badin	33.9	35.5	176.1	74	15.1	4.6	5.7	4.0	4.3
Bahawalnagar	33.9	38.2	173.6	83	91.1	5.4	5.9	0.9	3.4
Bahawalpur	34.5	39.9	179.7	77	31.2	4.1	5.9	1.1	2.6
Balakot	29.3	31.6	140.0	81	74.0	7.0	6.4	0.0	0.3
Bannu	33.8	36.6	163.6	72	54.0	4.7	3.4	0.0	17.9
Barkhan	31.4	34.0	146.8	67	40.0	3.9	4.1	0.3	0.9
Bunji	28.7	37.2	134.5	65	22.3	5.9	6.9	0.6	0.9
Cherat	25.9	34.5	115.6	89	78.0	6.3	5.3	1.4	2.3
Chhor	34.1	36.2	175.8	79	61.0	5.3	4.7	2.3	2.3
Chilas	31.4	38.5	152.9	49	8.3	6.6	6.1	2.3	2.3
Chitral	32.2	34.5	143.3	64	16.0	4.4	5.3	0.0	9.1
D.I.Khan	35.4	38.0	171.8	77	0.1	5.0	4.0	0.0	2.0
Dalbandin	40.4	43.0	192.8	25	0.0	0.0	0.7	1.4	4.0
DG.Khan	35.4	40.0	178.8	75	125.0	5.6	2.3	2.0	5.1
Dir	29.1	31.0	127.8	77	77.0	5.1	3.7	0.0	1.4
Drosh	32.9	35.6	153.8	55	47.0	4.9	5.9	0.0	6.0
Faisalabad	32.7	37.0	168.8	87	114.0	5.9	6.0	4.0	7.7
Garidopatta	31.4	34.5	148.6	70	156.0	3.1	4.4	0.3	1.4
Gawader	33.3	34.5	173.5	73	0.0	6.9	3.0	0.0	12.9
Gilgit	28.7	38.0	125.4	71	25.2	6.1	6.4	0.3	3.6

Gupis	24.6	30.0	101.1	62	15.0	6.4	5.1	1.1	3.1
Hyderabad	34.4	36.0	177.3	73	0.0	3.3	5.3	9.1	12.3
Islamabad	29.0	31.6	144.8	84	162.0	6.9	6.7	1.1	5.7
Jacobabad	35.7	38.5	188.9	74	99.0	4.0	2.7	0.9	0.9
Jhang	34.7	37.6	170.7	78	50.0	3.7	4.0	1.1	2.0
Jhelum	29.6	33.5	157.0	87	194.1	7.7	6.9	0.9	1.7
Jiwani	32.0	32.5		79	0.0	6.9	2.6	1.4	10.3
Joharabad	32.9	36.5	168.1	87	5.0	3.7	4.3	1.1	2.6
Kakul	26.4	29.0	109.9	88	190.0	5.0	6.9	0.9	1.1
Kalam	23.5	26.0	111.4	77	61.0	4.4	5.7	0.0	0.0
Kalat	32.0	33.0	137.3	34	0.0	0.6	3.1	0.0	2.3
Karachi	32.4	34.5	175.3	77	2.2	5.4	6.0	4.3	8.7
Khanpur	35.4	39.0	183.4	78	0.2	5.0	4.9	1.4	0.6
Khuzdar	33.0	35.0	***	28	22.0	2.6	3.3	0.0	2.9
Kotli	29.0	32.8	***	87	57.0	8.0	7.4	0.6	0.9
Lahore	29.5	33.2	150.9	90	327.0	7.1	7.4	1.7	6.3
Larkana	36.8	40.0	193.0	72	9.0	3.1	2.0	4.3	3.7
Lasbella	37.4	38.0	190.5	66	0.1	4.1	2.6	0.9	7.1
Lower Dir	33.2	34.5	141.9	72	136.0	5.3	4.6	0.3	2.0
M.B Din	29.7	34.0	157.7	89	47.2	7.9	7.6	0.9	1.7
Malam Jabba	20.1	21.5	116.0	87	150.0	4.7	6.9	1.1	0.0
Mangla	29.9	33.5	155.8	87	117.1	7.3	7.1	0.9	2.3
Mir Khani	34.3	37.0	***	41	9.0	4.5	4.0	0.0	2.1
Moinjodaro	37.2	40.0	202.3	61	51.0	4.4	3.6	2.6	4.0
Multan	35.3	38.0	180.7	72	31.0	6.3	4.7	3.1	5.4

Murree	20.6	23.0	88.2	95	198.0	6.9	7.9	1.1	0.9
Muzaffarabad	32.2	33.5	154.1	78	96.0	6.4	6.1	0.0	0.0
Nawabshah	36.4	40.0	188.6	61	0.0	3.6	3.7	4.6	5.4
Nokkundi	***	***	***	11	***	0.0	0.0	10.0	4.0
Noorpurthal	34.4	37.5	**	84	96.0	4.3	5.3	0.3	1.4
Okara	32.4	36.5	166.7	87	179.1	5.6	6.3	1.4	2.3
Padidan	36.3	38.5	***	73	6.0	3.9	4.0	1.7	2.0
Panjgur	37.6	39.0	***	39	5.0	2.1	1.0	1.7	9.9
Parachinar	29.6	33.0	***	69	94.0	4.9	5.4	3.0	4.4
Pasni	32.4	33.0	160.0	80	0.0	7.0	3.3	2.0	8.9
Pattan	34.1	39.0	***	67	62.0	5.0	3.3	0.0	0.3
Peshawar	33.3	36.0	165.6	77	64.1	5.4	4.7	0.9	2.3
Quetta	33.3	35.0	***	30	0.0	0.8	3.6	0.0	10.0
R.Y.Khan	37.3	40.8	188.2	73	0.2	3.7	4.9	2.9	4.3
Rawalakot	21.8	25.0	99.8	94	126.0	6.9	7.3	0.0	0.9
Rohri	37.0	41.0	194.6	86	9.0	4.0	2.3	2.3	3.1
Sahiwal	33.6	37.0	169.1	83	130.0	4.3	5.9	1.1	2.6
Saidu Sharif	29.8	32.0	139.3	82	194.1	3.6	3.5	0.0	0.3
Sialkot	29.5	33.5	143.7	92	193.1	8.0	7.0	0.3	1.7
Sibbi	37.0	40.5	184.5	72	15.0	4.1	2.6	0.0	0.0
Skardu	25.9	32.4	106.9	65	5.2	5.4	7.3	0.0	0.0
Zhob	33.9	37.0	158.8	50	0.0	3.7	4.0	5.0	6.1

*** Data not available