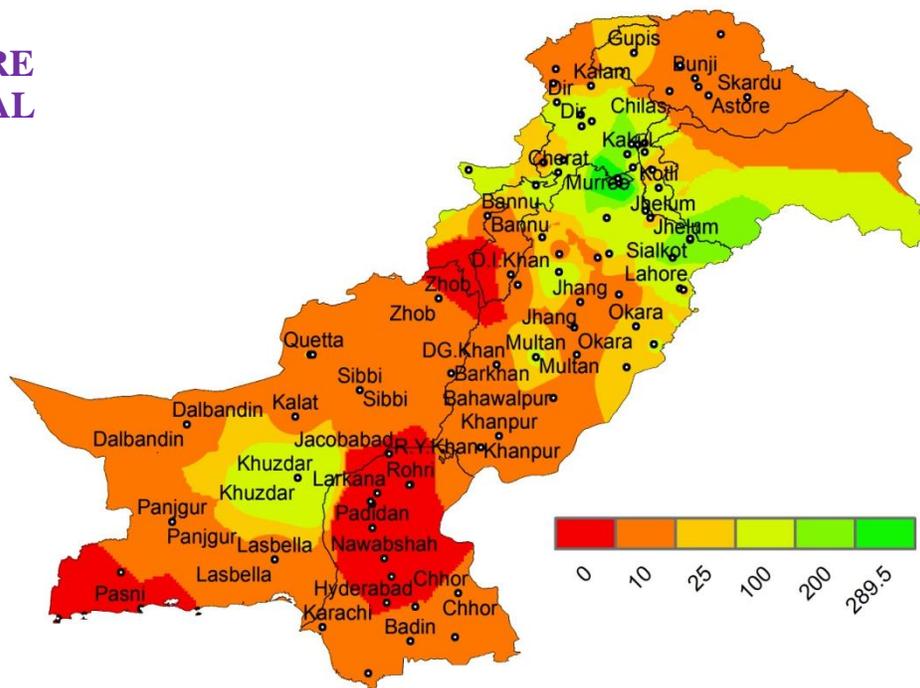


Weekly Weather and Crop Bulletin for Pakistan

**NATIONAL AGROMET CENTRE
PAKISTAN METEOROLOGICAL
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**Rainfall distribution (mm) during the
Last week (from 5th to 11th August, 2013)**



Contents

Highlights of past weather (General)	1-2
Past weather for Agri Plains	3-4
Crop progress	4
Min Temperature maps	5
R. H & GDD	6
Cloudiness maps	7
Wind speed maps	8
Farmers advisory	9
National data for selected stations	10-12

Highlights of Past Weather (from 5th to 11th August, 2013)

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

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 35.1°C & 26.8°C respectively. For the present season on average 180.20 growing degree days accumulated by the end of last week. Average relative humidity recorded as 75% and wind speed in the morning/evening recorded as 2.3/2.7 Knots. During the previous week highest amount of rainfall reported at Islamabad as 299.0 mm and extreme maximum temperature recorded as 41.0°C at the Bhakkar.

Sindh

Light rainfall reported the Sindh Province during the week. Weekly maximum temperature and minimum temperature recorded as 35.8°C & 26.7°C respectively. For the present season on average 187.4 growing degree days accumulated by the end of last week. Average relative humidity recorded as 68% and wind speed in the morning/evening recorded as 4.1/6.5 Knots. During the previous week highest amount of rainfall reported at Baddin as 4.0 mm and Extreme maximum temperature recorded as 41.0°C at Jacobabad.

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 33.0°C & 22.7°C respectively. For the present season on average 168.0 growing degree days accumulated by the end of last week. Average relative humidity recorded as 69% and wind speed in the

morning/evening recorded as 0.7/3.7 Knots. During the previous week the highest rainfall recorded at Balakot as 140.0 mm and extreme maximum temperature recorded as 39.5°C at D.I Khan.

Balochistan

Light to Moderate rainfall reported from few places in the Balochistan Province during the week. Weekly maximum temperature and minimum temperature recorded as 34.5°C & 23.1°C respectively. For the present season on average 171.1 growing degree days accumulated by the end of last week. Average relative humidity recorded as 60% and wind speed in the morning/evening recorded as 1.3/5.1 Knots. During the previous week highest amount of rainfall reported at Khuzadar as 173.0 mm Extreme maximum temperature recorded as 46.0°C at Dalbandin.

Gilgit Baltistan and Azad Jammu & Kashmir

Light to Moderate rainfall reported from few places in the Gilgit Baltistan & Kashmir regions during the week. Weekly maximum temperature and minimum temperature recorded as 34.6°C & 21.9°C respectively. For the present season on average 160.0 growing degree days accumulated by the end of last week. Average relative humidity recorded as 56% and wind speed in the morning/evening recorded as 0.7/1.6 Knots. During the previous week the highest rainfall recorded at Muzaffarabad as 131.0 mm and extreme maximum temperature recorded as 43.3°C at Chilas.

Past Weather for Major Agricultural Plains (from 5th to 11th August, 2013)

Rawalpindi (Potohar region)

Rainfall reported as 338.2 mm during the week however cloudiness in the morning/evening 6.8/4.8 Oktas while average relative humidity observed as 86%. Mean day time temperature recorded as 31.8°C & for the present season 157.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.2/1.5 Km/h.

Faisalabad (Central Punjab)

Rainfall reported as "Trace" during the week however cloudiness in the morning/evening as 3.5/5.1 Oktas while average relative humidity observed as 63%. Mean day time temperature recorded as 36.2°C & for the present season 188.6 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.6/3.7 Km/h.

Tandojam (Lower Sindh)

No rainfall reported during the week, however cloudiness in the morning/evening as 3.7/3.7 Oktas while average relative humidity observed as 74%. Mean day time temperature recorded as 33.6°C & for the present season 173.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 4.0/6.6 Km/h.

Quetta (Northern Balochistan)

Rainfall reported as 12.6 mm during the week however cloudiness in the morning/evening as 3.3/3.9 Oktas while average relative humidity observed as 66%. Mean day time temperature observed as 32.3°C & for the present season 150.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.7/4.7 Km/h.

Usta Muhammad (Eastern Balochistan)

No rainfall reported during the week, however cloudiness in the morning/evening as 2.5/3.7 Oktas

while average relative humidity observed as 57%. Mean day time temperature recorded as 39.3°C & for the present season 196.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.1/3.7 Km/h.

Past Weather for sub regional Agri-cultural Plains (from 5th to 11th August, 2013)

Rohri

No rainfall reported during the week, however cloudiness in the morning/evening as 1.3/1.7 Oktas while average relative humidity observed as 63%. Mean day temperature recorded as 37.4°C & for the present season 195.5 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 2.0/1.4 Knots.

Multan

Rainfall reported as 2.0 mm during the week, however cloudiness in the morning/evening as 3.3/4.9 Oktas while average relative humidity observed as 66%. Mean day time temperature recorded as 37.5°C & for the present season 197.8 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 6.9/6.6 Knots.

Lahore

Rainfall reported as 30.1 mm during the week however, cloudiness in the morning/evening as 6.7/5.3 Oktas while average relative humidity observed as 80%. Mean day time temperature recorded as 33.2°C & for the present season 167.8 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 1.1/2.6 Knots.

Zhob

No rainfall reported during the week however, cloudiness in the morning/evening as 0.9/5.3Oktas while average relative humidity observed as 64%. Mean day temperature recorded as 31.6°C by the end of last week. Wind recorded in the morning/evening as 5.0/12.7 Knots.

D.I. Khan

No rainfall reported during the week however cloudiness in the morning/evening as 1.6/2.6 Oktas while average relative humidity observed as 71%. Mean day temperature 38.7°C & for the present season 193.7 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 4.0 mm during the week however cloudiness in the morning/evening as 5.0/5.5 Oktas while average relative humidity observed as 74%. Mean day temperature recorded as 36.0°C & for the present season 180.6 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.0/2.3 Knots.

Murree

Rainfall reported as 34.1 mm during the week however cloudiness in the morning/evening as 8.0/7.6 Oktas while average relative humidity observed as 86%. Mean day temperature recorded as 22.5°C & for the present season 106.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/1.4 Knots.

Kalam

Rainfall reported as 6.0 mm during the week, however cloudiness in the morning/evening as 5.1/4.6 Oktas while average relative humidity observed as 74%. Mean day temperature recorded as 27.9°C & for the present season 135.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/3.4 Knots.

Gilgit

Rainfall reported as 1.0 mm during the week,, however cloudiness in the morning/evening as 3.1/4.4 Oktas while average relative humidity observed as 55%. Mean day temperature recorded as 39.9°C & for the present season 179.8 growing degree days accumulated by the end of last week.

Wind speed recorded in the morning/evening 0.0/3.6 Knots.

Skardu

Rainfall reported as 0.1 mm during the week,, however cloudiness in the morning/evening as 2.7/3.7 Oktas while average relative humidity observed as 40%. Mean day temperature recorded as 34.6°C & for the present season 145.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/0.6 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: Good 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)

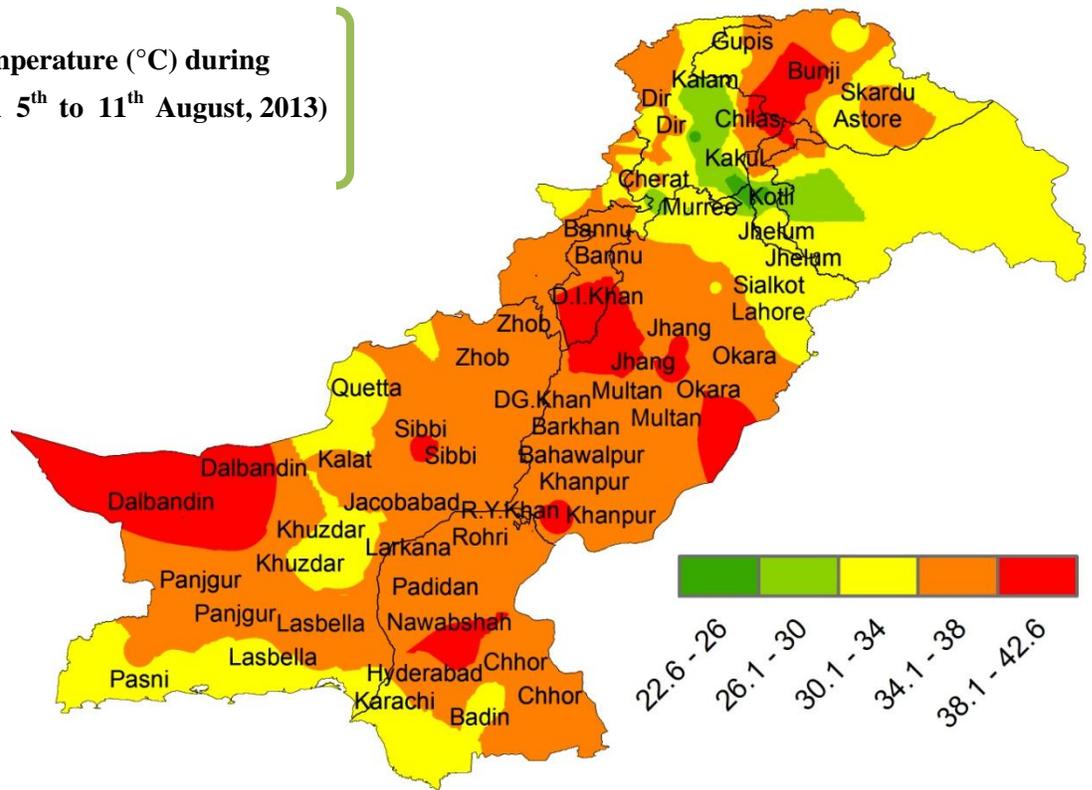
There is presently no crop in the fields.

Eastern Balochistan (Usta Muhammad)

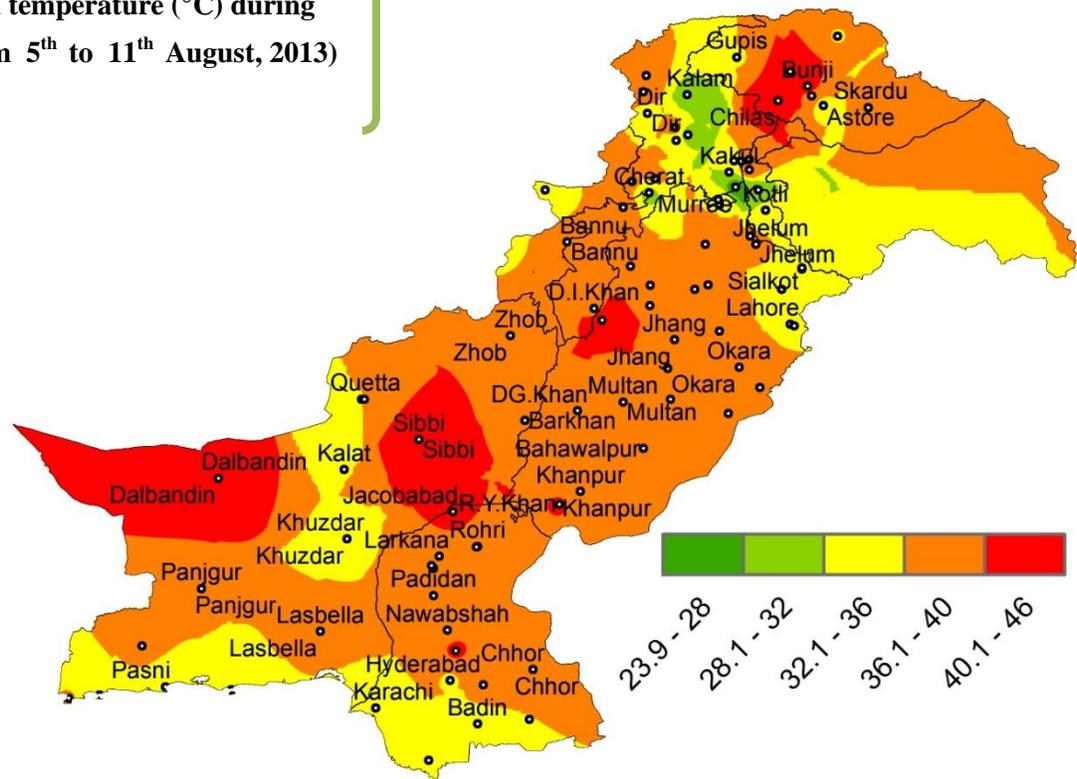
There is only one crop (irrigated conditions) grown in the fields as detailed below.

Rice: Good condition at *3rd Leaf* stage .

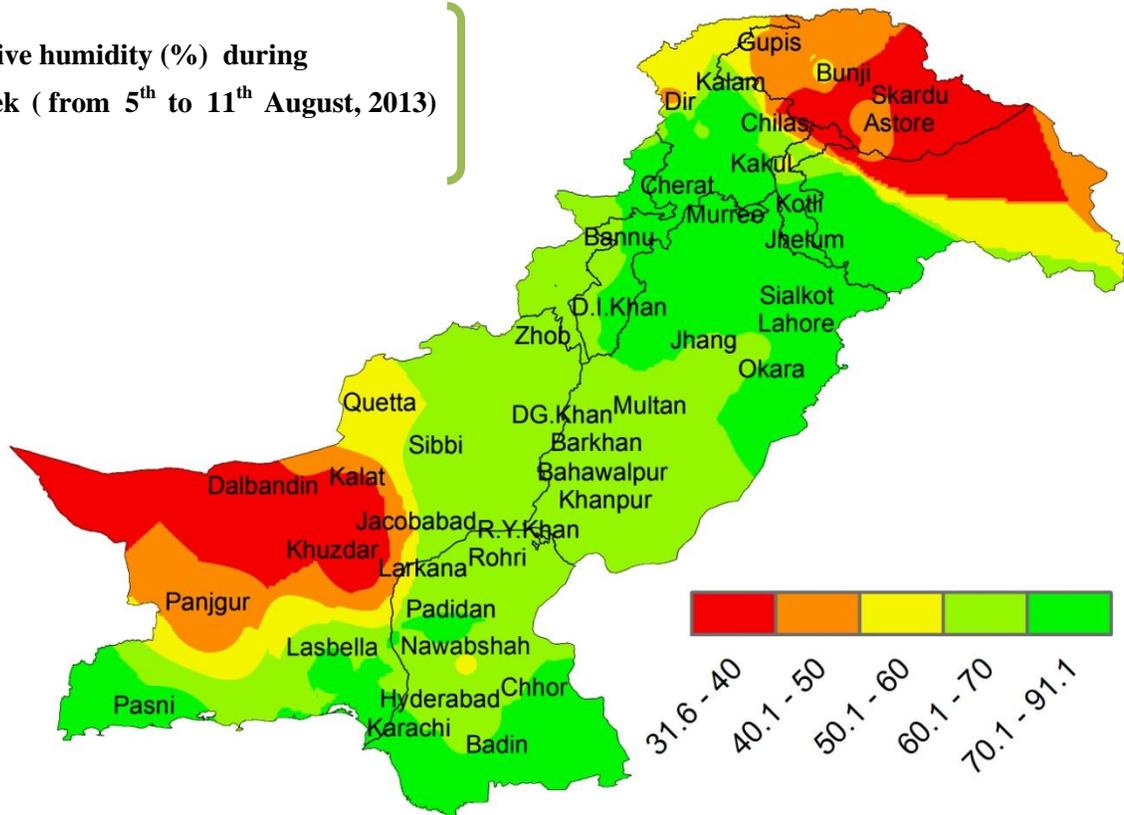
Mean maximum temperature (°C) during the last week (from 5th to 11th August, 2013)



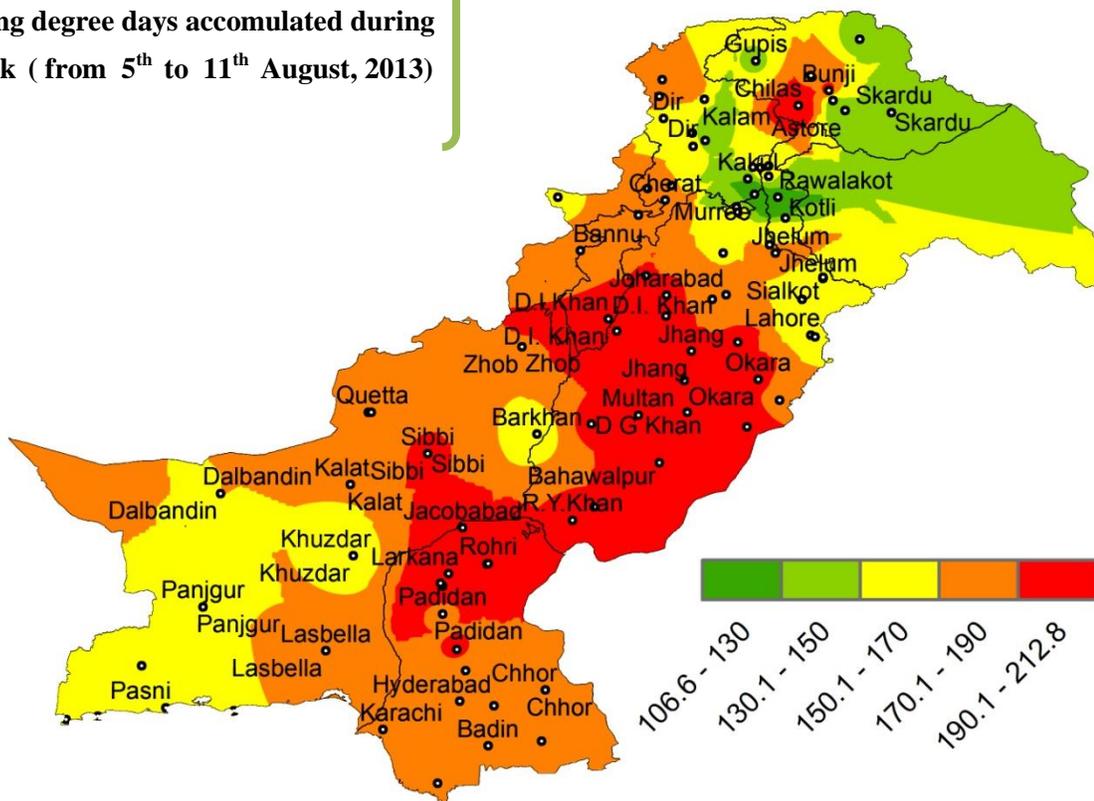
Extreme maximum temperature (°C) during the last week (from 5th to 11th August, 2013)



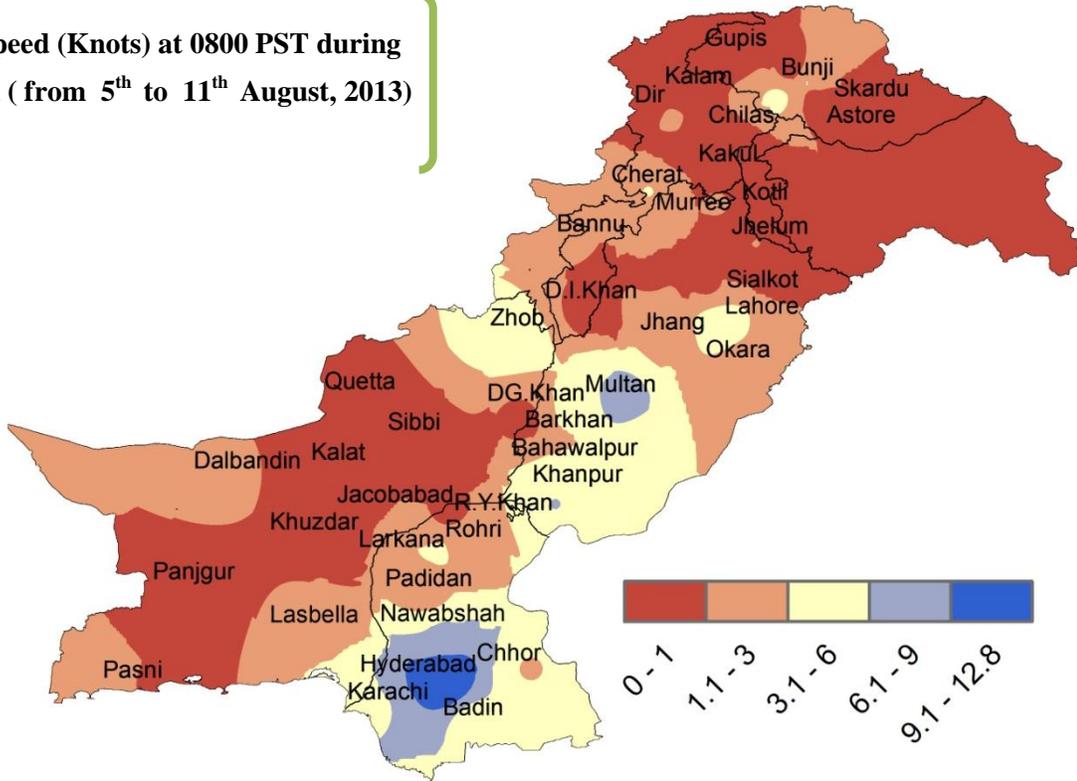
Mean relative humidity (%) during the last week (from 5th to 11th August, 2013)



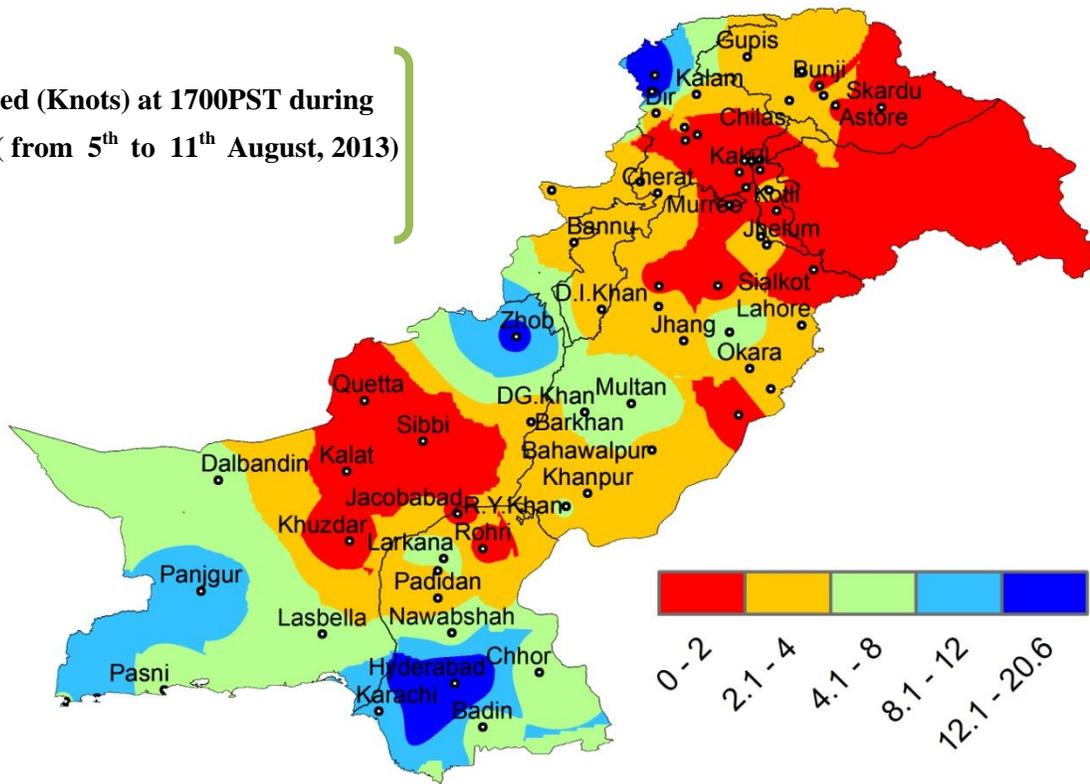
Total growing degree days accomulated during the last week (from 5th to 11th August, 2013)



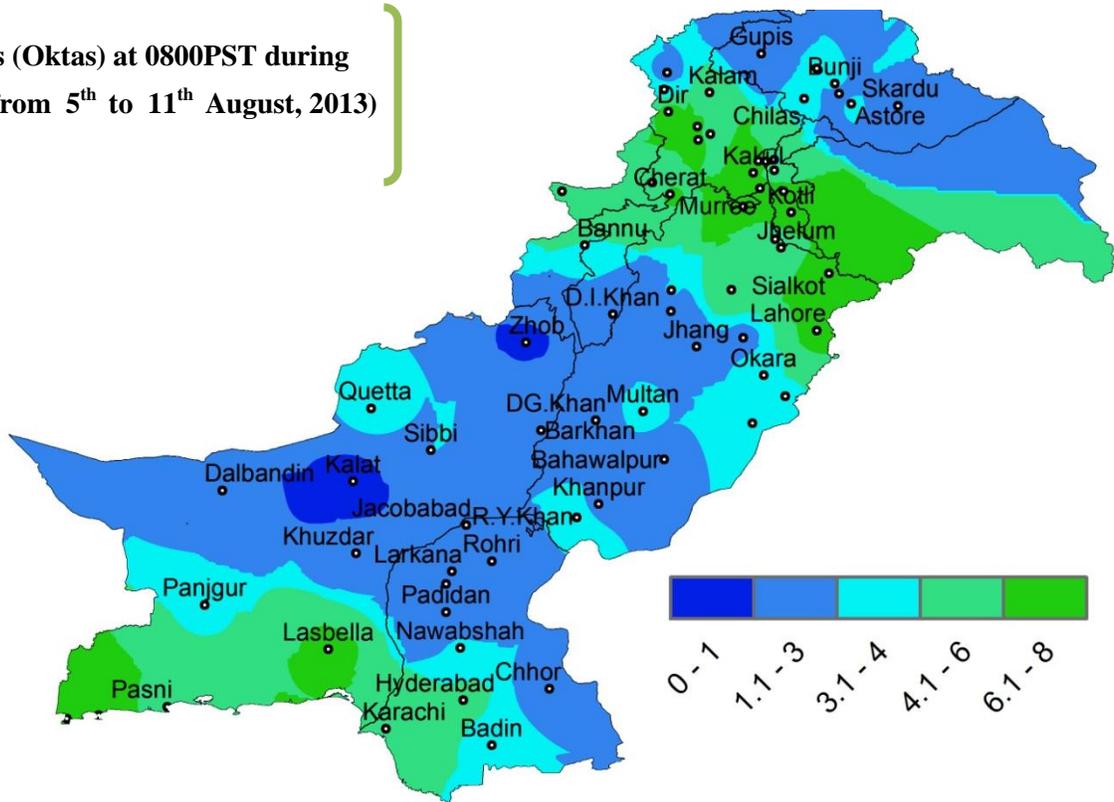
Mean wind speed (Knots) at 0800 PST during the last week (from 5th to 11th August, 2013)



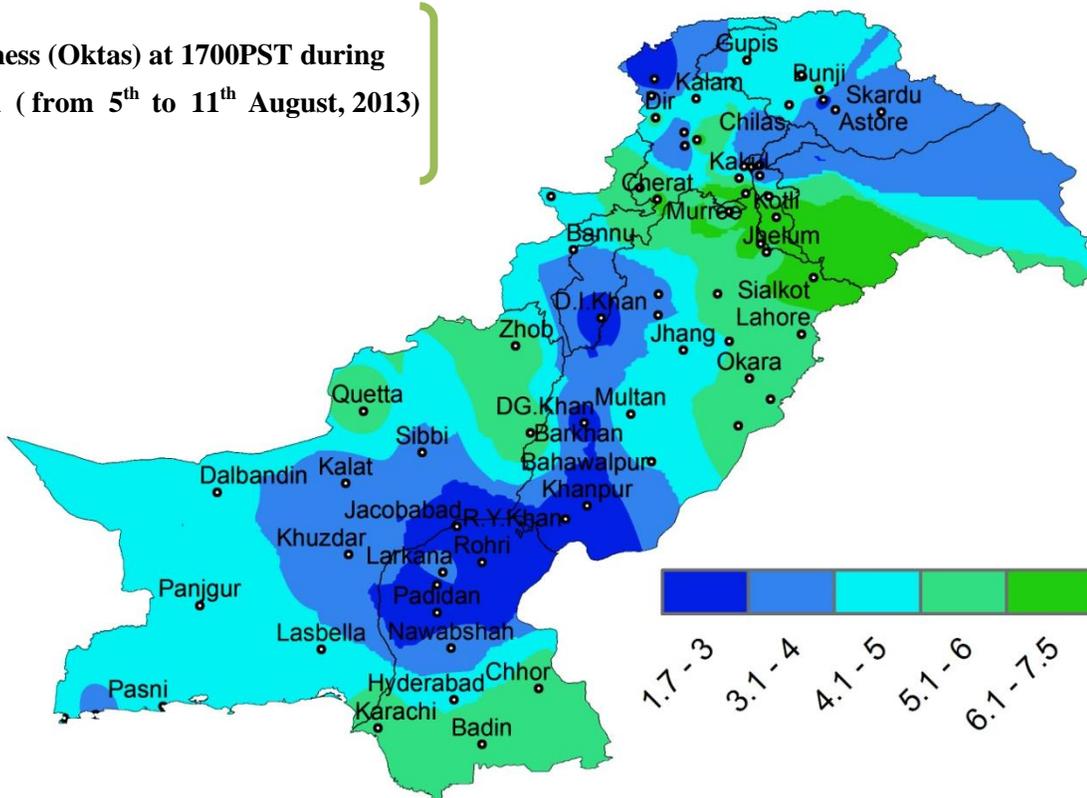
Mean wind speed (Knots) at 1700 PST during the last week (from 5th to 11th August, 2013)



Mean Cloudiness (Oktas) at 0800PST during the last week (from 5th to 11th August, 2013)



Mean Cloudiness (Oktas) at 1700PST during the last week (from 5th to 11th August, 2013)



Weekly Weather advisory for Farmers (from 12th to 18th August, 2013)

Seasonal low lies over Northwest Balochistan and adjoining areas. A monsoon low pressure lies over southwest Uttar Pradesh and adjoining areas. Due to this low pressure area strong to very strong monsoon currents would penetrate in upper/central parts of the country in next 2 days. A fresh western disturbance is likely to grip in upper parts of the country on today evening.

Punjab including Islamabad:

Widespread intermittent rain-thunderstorm with scattered heavy falls are expected in Punjab including Islamabad during next 2 days. Heavy rains may generate urban & flash flooding in the vulnerable areas of **Islamabad, Rawalpindi, Gujranwala, Lahora, D,G Khan** during Tuesday/Wednesday.

Scattered rain-thunderstorm are expected in north and southeastern parts of the Punjab including Islamabad during second half of the week with occasional gaps.

Khyber Pakhtunkhwa:

Widespread intermittent rain-thunderstorm with scattered heavy falls are expected in the province during next 2 days. Heavy rains may generate urban & flash flooding in the vulnerable areas of **KPK(Malakand, Hazara, Mardan, Peshawar, Kohat, Bannu and D.I Khan).**

Scattered rain-thunderstorm are expected in the province during second half of the week with occasional gaps.

Balochistan:

Widespread intermittent rain-thunderstorm with scattered heavy falls are expected in the Northeast Balochistan (**Zhob, Sibbi, Naseerabad and Kalat Divisions**) during next 2 to 3 days. Heavy rains may generate urban & flash flooding in the vulnerable areas of Northeast Balochistan(**Zhob,**

Sibbi, Naseerabad Divisions) during Tuesday to Thursday.

Scattered rain-thunderstorms are expected in the Northeast Balochistan during second half of the week with occasional gaps.

Sind:

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 Monday/Wednesday/Thursday.

Kashmir:

Widespread intermittent rain-thundershower (with scattered heavy falls) is expected in Kashmir during first half of the week. Heavy rains may generate urban & flash flooding and land sliding in the vulnerable areas of Kashmir during Tuesday/Wednesday.

Scattered rain-thundershowers are also expected in Kashmir during second half of the week with occasional gaps..

Gilgit-Baltistan:

Rain-thunderstorm is expected at scattered places of GB during the first half of the week, While Mainly Dry/Partly cloudy weather is expected in most parts of GB during 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 5th to 11th 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	31.3	33.6	137.2	45	3.0	3.4	4.0	0.3	1.7
Badin	34.0	35.0	***	71	2.0	3.5	5.9	4.0	6.0
Bahawalnagar	38.8	39.7	199.6	71	21.0	4.0	5.6	1.4	1.7
Bahawalpur	37.6	38.7	197.3	63	3.1	2.4	4.0	3.7	3.1
Balakot	30.9	33.0	155.6	79	149.1	7.0	3.4	0.0	0.4
Bannu	35.7	37.3	174.9	68	0.0	4.0	4.0	1.4	3.7
Barkhan	34.3	37.0	159.5	65	6.1	2.2	5.9	0.3	2.0
Bunji	40.0	43.3	202.8	34	4.0	3.9	5.7	3.1	0.9
Cherat	26.4	29.5	***	91	44.0	6.1	6.1	3.1	4.0
Chhor	35.1	36.7	178.0	74	0.0	2.2	5.3	2.8	5.7
Chilas	41.6	43.3	212.9	32	1.0	3.7	4.1	3.4	2.9
Chitral	36.9	39.0	171.8	55	2.0	2.4	2.0	0.0	13.7
DG.Khan	37.1	39.0	194.8	68	0.0	2.6	2.4	3.4	4.6
D.I.Khan	38.7	39.5	193.7	71	0.0	1.6	2.6	0.0	2.0
Dalbandin	42.6	46.0	***	36	2.0	1.5	4.3	1.7	4.3
Dir	32.3	34.0	152.0	75	29.0	6.7	5.3	0.0	1.7
Drosh	38.0	38.8	186.8	44	1.0	3.3	3.6	0.0	13.9
Faisalabad	37.0	39.0	193.2	68	0.2	2.6	5.0	5.1	6.9
Garidopatta	33.9	39.0	152.0	69	35.0	3.9	3.7	0.0	0.0
Gawader	32.4	33.0	169.0	72	0.0	6.4	3.9	1.6	11.4
Gilgit	38.9	42.0	179.8	55	1.0	3.1	4.4	0.0	3.6

Gupis	33.5	35.5	145.5	46	17.0	1.0	4.0	0.3	2.3
Hyderabad	34.5	35.5	175.0	68	0.0	4.4	5.0	12.8	20.6
Islamabad	31.6	36.0	161.5	90	299.1	6.3	5.6	1.1	1.1
Jacobabad	36.0	41.0	194.8	70	0.0	2.2	2.4	0.4	1.7
Jhang	38.1	39.0	193.0	65	0.0	2.1	4.3	1.4	2.0
Jhelum	33.1	36.5	173.2	82	12.1	5.0	5.4	1.1	2.3
Jiwani	32.4	36.2	167.5	74	0.0	6.4	4.1	1.2	7.7
Joharabad	36.4	39.0	191.9	78	0.0	3.1	3.9	0.6	1.7
Kakul	25.8	32.0	129.3	82	115.0	5.9	5.4	0.3	0.6
Kalam	27.9	29.5	135.5	74	9.0	5.1	4.6	0.0	3.4
Kalat	34.3	36.0	***	35	0.0	0.0	3.3	0.0	2.0
Karachi	32.1	33.2	***	74	1.3	5.5	5.4	5.3	11.1
Khanpur	37.1	38.5	***	69	0.1	2.7	2.6	3.1	2.0
Khuzdar	32.9	34.0	161.0	36	70.0	1.7	3.3	0.0	1.4
Kotli	30.6	33.9	***	87	31.0	7.7	7.4	0.0	0.0
Lahore	32.7	35.5	167.8	80	30.1	6.7	5.3	1.1	2.6
Larkana	37.1	38.5	191.1	67	0.0	2.7	3.6	3.3	5.7
Lasbella	34.6	38.0	176.5	71	0.1	6.5	4.1	2.0	4.6
Lower Dir	36.9	38.5	***	67	43.0	6.2	3.1	2.0	2.6
Malam Jabba	23.4	28.0	138.0	86	75.0	5.4	7.0	0.0	0.0
M.B Din	33.5	37.5	177.3	82	29.0	6.0	5.7	0.6	1.1
Mangla	32.8	36.2	169.6	83	47.0	5.6	6.6	0.0	2.6
Mir Khani	35.0	38.0	136.5	33	2.0	1.3	1.9	0.4	3.6
Moinjodaro	37.9	39.5	206.3	65	0.0	2.6	2.4	2.8	3.4
Multan	37.5	38.2	197.8	66	28.0	3.3	4.9	7.7	6.9

Murree	22.5	23.8	106.5	86	36.0	8.0	7.6	0.9	1.4
Muzaffarabad	33.6	36.4	167.6	71	131.0	6.7	4.4	0.0	0.0
Noorpurthal	37.1	40.0	192.2	74	60.0	1.4	4.0	2.0	2.9
Okara	37.2	39.5	191.4	74	14.0	4.0	5.4	1.1	2.0
Padidan	36.1	39.0	185.0	75	0.0	1.5	2.7	1.7	2.3
Panjgur	36.0	37.0	***	44	10.0	3.6	5.0	0.0	9.9
Parachinar	32.1	32.6	165.8	64	77.0	5.1	5.0	2.6	3.0
Pasni	32.1	32.5	163.0	75	0.0	5.7	4.4	0.9	6.0
Pattan	38.8	40.0	***	52	0.0	3.5	2.4	0.3	1.9
Peshawar	35.1	38.0	183.7	74	4.1	5.0	5.5	1.0	2.3
Quetta	32.8	35.0	****	58	12.0	3.8	5.5	0.0	1.5
R.Y.Khan	38.3	40.2	196.4	65	0.1	3.6	2.7	6.1	4.3
Rawalakot	25.1	28.3	120.2	88	8.1	7.0	5.4	0.0	3.4
Rohri	37.4	39.0	195.5	63	0.0	1.3	1.7	2.0	1.4
Sahiwal	37.1	39.5	185.5	74	26.1	3.7	5.0	1.1	2.3
Saidu Sharif	33.2	35.0	167.5	76	21.3	6.3	2.6	0.0	1.1
Sibbi	32.0	33.8	191.5	85	145.1	7.6	7.1	0.3	0.0
Skardu	38.3	46.0	145.1	69	0.1	3.0	3.7	0.0	0.0
Zhob	34.6	37.5	***	40	1.1	2.7	3.7	0.3	0.6

*** Data not available