

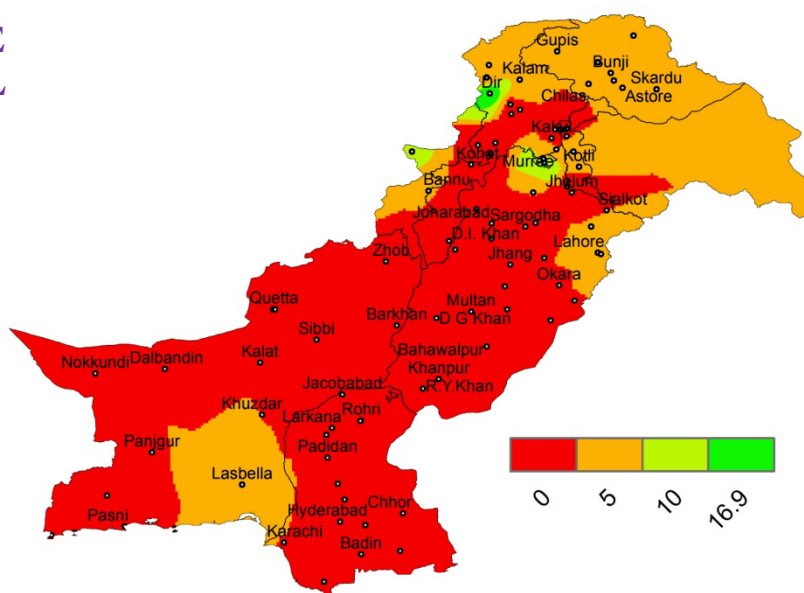
Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall distribution (mm) during the
last week (from 16th to 22nd September, 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 16th to 22nd September, 2013)

Mostly dry weather reported in most parts of the country during the week. Province wise distribution of rainfall reported as follows:

- Light to moderate rain fall reported at few places in the Punjab Province.
- Light to moderate rain fall reported at few places in the Khyber Pakhtunkhwa Province.
- Light rainfall reported from most of the places in the Gilgit Baltistan & Kashmir regions.
- "Trace" rainfall reported at a single place i.e "Lasbella" in the Balochistan Province.
- No rainfall reported from the Sindh Province.

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

Punjab:

Light to moderate rain fall reported at few places in the Punjab Province during the week. Weekly maximum and minimum temperatures are recorded as 35.2°C & 22.8°C respectively. For the present season average 160.9 growing degree days accumulated by the end of last week. Average relative humidity recorded as 66% and wind speed in the morning/evening recorded as 1.3/2.4 Knots. During the previous week highest amount of rainfall reported at the Islamabad (Airport) as 14.0mm and extreme maximum temperature recorded as 41.6°C at the Rahim Yar Khan.

Sindh:

No rainfall reported from the Sindh Province during the week. Weekly maximum and minimum temperatures are recorded as 37.7°C & 25.8°C respectively. For the present season average 182.5 growing degree days accumulated by the end of last week. Average relative humidity recorded as 63% and wind speed in the morning/evening recorded as 6.3/5.0 Knots. During the previous extreme maximum temperature recorded as 43.5°C at the Shaheed Benazirabad.

Khyber Pakhtunkhwa:

Light to moderate rain fall reported at few places in the Khyber Pakhtunkhwa Province during the week. Weekly maximum and minimum temperatures are recorded as 31.4°C & 16.7°C respectively. For the present season average 134.0 growing degree days accumulated by the end of last week. Average relative humidity recorded as 61% and wind speed in the morning/evening recorded as 1.6/2.1 Knots. During the previous week highest amount of rainfall reported at the Dir as 17.0mm and extreme maximum temperature recorded as 38.5°C at the D.I. Khan.

Balochistan:

"Trace" rainfall i.e 0.1mm reported at a single place i.e "Lasbella" in the Balochistan Province during the week. Weekly maximum and minimum temperatures are recorded as 35.7°C & 20.7°C respectively. For the present season average 161.8 growing degree days accumulated by the end of last week. Average relative humidity recorded as 45% and wind speed in the morning/evening recorded as 1.3/4.4 Knots. During the previous week extreme maximum temperature recorded as 43.0°C at the Turbat.

Gilgit Baltistan and Azad Jammu & Kashmir:

Light rainfall reported from most of the places in the Gilgit Baltistan & Kashmir regions during the week. Weekly maximum and minimum temperatures are recorded as 30.4°C & 13.3°C respectively. For the present season average 119.6 growing degree days accumulated by the end of last week. Average relative humidity recorded as 55% and wind speed in the morning/evening recorded as 0.3/1.5 Knots. During the previous week highest amount of rainfall reported at the Astore as 3.0mm and extreme maximum temperature recorded as 39.0°C at the Pattan.

Past Weather for Major Agricultural- Plains (from 16th to 22nd September, 2013)

Rawalpindi (Potohar region)

Rainfall reported as 1.8mm during the week; however cloudiness in the morning/evening recorded as 0.8/1.2 Oktas while, average relative humidity observed as 65%. Mean day time temperature recorded as 33.6°C & for the present season 152.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.0/1.2 Knots.

Faisalabad (Central Punjab)

Rainfall reported as “Trace” i.e 0.1mm during the week; however cloudiness in the morning/evening recorded as 0.9/0.9 Oktas while, average relative humidity observed as 54%. Mean day time temperature recorded as 36.4°C & for the present season 174.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.2/0.6 Knots.

Tandojam (Lower Singh)

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.3/0.3 Oktas while, average relative humidity observed as 70%. Mean day time temperature recorded as 37.7°C & for the present season 184.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/0.3 Knots.

Quetta (Northern Balochistan)

No rainfall and cloudiness reported during the week while, average relative humidity observed as 25%. Mean day time temperature recorded as 31.2°C & for the present season 106.6 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.3/3.3 Knots.

Usta Muhammad (Eastern Balochistan)

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.6/0.7 Oktas while, average relative humidity observed as 63%. Mean day time temperature recorded as 35.3°C & for the present season 173.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.1/0.1 Knots.

Past Weather for Sub Regional Agricultural- Plains (from 16th to 22nd September, 2013)

Rohri

No rainfall and cloudiness reported during the week; however average relative humidity observed as 62%. Mean day time temperature recorded as 37.0°C & for the present season 190.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.0/3.0 Knots.

Multan

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.0/0.3 Oktas while average relative humidity observed as 57%. Mean day time temperature recorded as 36.6°C & for the present season 184.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.3/5.7 Knots.

Lahore

Rainfall reported as 6.0mm during the week; however cloudiness in the morning/evening recorded as 2.0/1.0 Oktas while average relative humidity observed as 67%. Mean day time temperature recorded as 34.5°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 1.7/3.0 Knots.

Zhob

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.4/2.3 Oktas while average relative humidity observed as 36%. Mean day time temperature recorded as 33.8°C & for the present season 147.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 5.0/5.7 Knots.

D.I. Khan

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.5/0.0 Oktas while average relative humidity observed as 60%. Mean day time temperature recorded as 37.4°C & for the present season 175.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.3 Knots.

Peshawar

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.5/1.6 Oktas while average relative humidity observed as 65%. Mean day time temperature recorded as 35.0°C & for the present season 164.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.7/0.8 Knots.

Murree

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 1.0/2.5 Oktas while average relative humidity observed as 70%. Mean day time temperature recorded as 23.5°C & for the present season 83.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.0/0.7 Knots.

Kalam

Rainfall reported as 4.0mm during the week; however cloudiness in the morning/evening recorded as 0.7/4.3 Oktas while average relative humidity observed as 63%. Mean day time temperature recorded as 24.3°C & for the present season 101.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.7 Knots.

Gilgit

Rainfall reported as 0.1mm during the week; however cloudiness in the morning/evening recorded as 0.8/4.0 Oktas while average relative humidity observed as 63%. Mean day time temperature recorded as 31.7°C & for the present season 111.8 growing degree days accumulated by the end of last week. No wind speed recorded in the during the week.

Skardu

Rainfall reported as 0.1mm during the week; however cloudiness in the morning/evening recorded as 1.5/4.5 Oktas while average relative humidity observed as 44%. Mean day time temperature recorded as 26.2°C & for the present season 82.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/4.2 Knots.

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

Potohar Region (Rawalpindi)

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

Maize (Agati 2002): Good condition at *Ninth Leaf* 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, *Boll Opening* stage completed.

Lower Sindh (Tandojam)

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

Cotton (BT-3701): Normal condition at *Maturity* stage.

Northern Balochistan (Quetta)

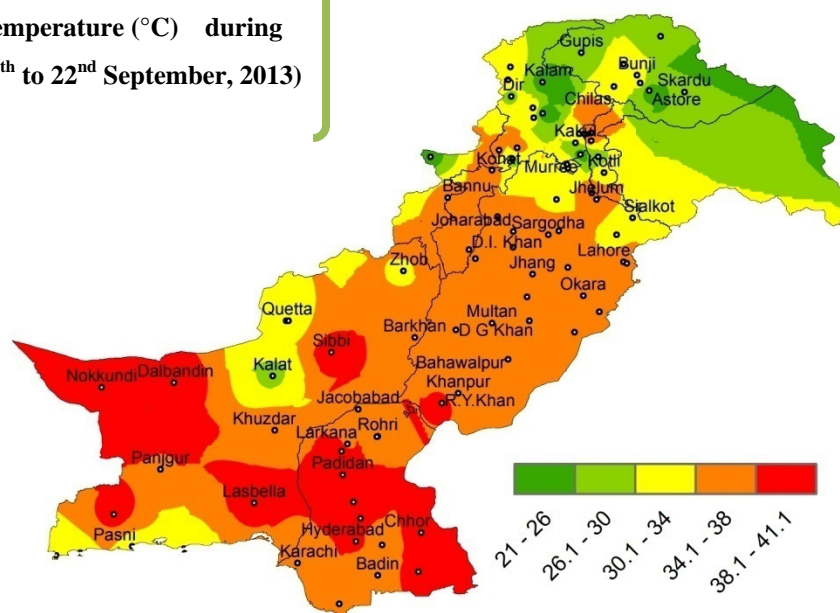
There is presently no crop in the fields.

Eastern Balochistan (Usta Muhammad)

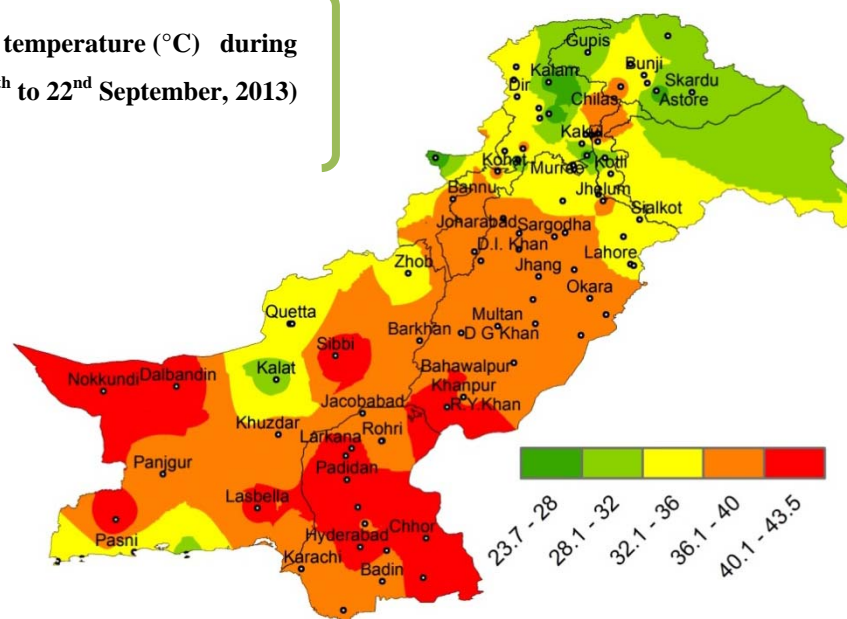
There is only one crop (irrigated conditions) grown in the fields as detailed below.

Rice: Good condition at *Wax Maturity* stage.

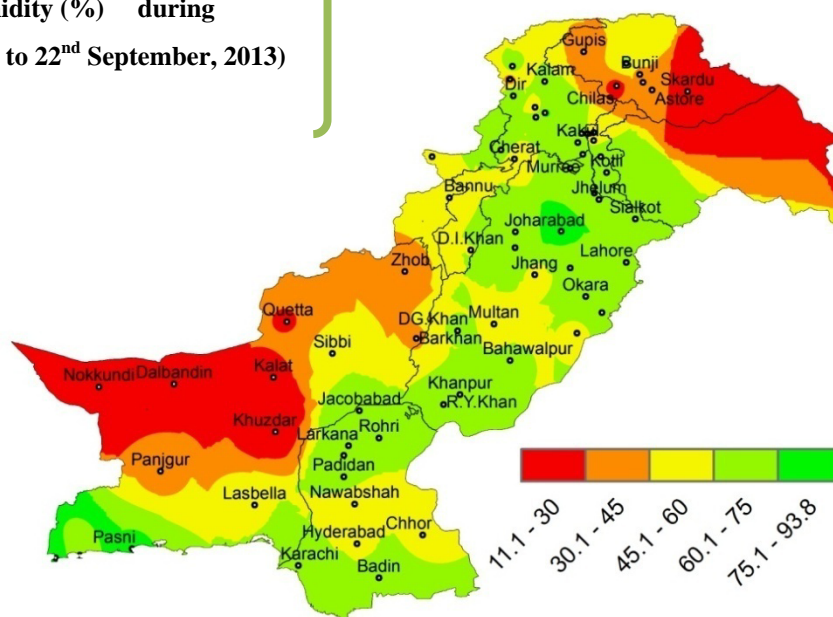
Mean maximum temperature (°C) during
the last week (from 16th to 22nd September, 2013)



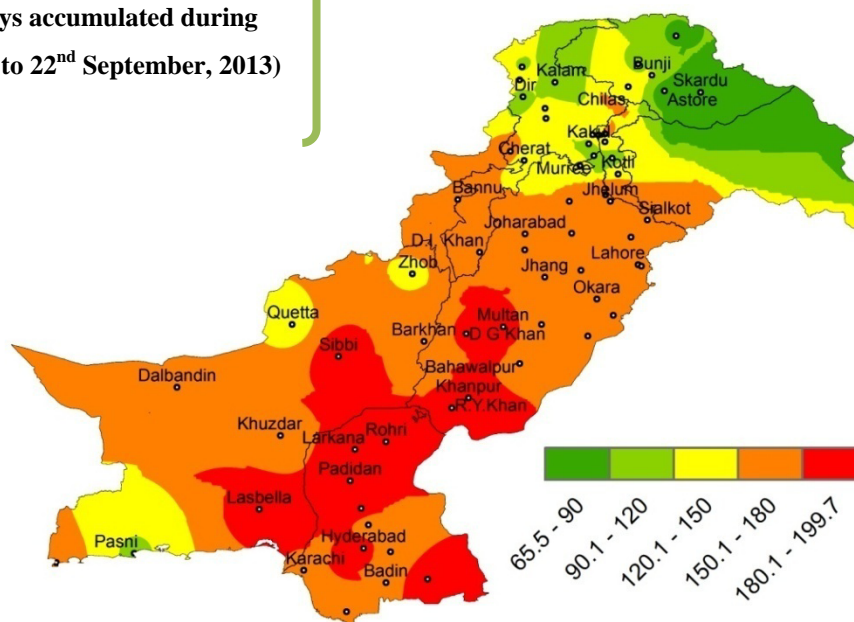
Extreme maximum temperature (°C) during
the last week (from 16th to 22nd September, 2013)



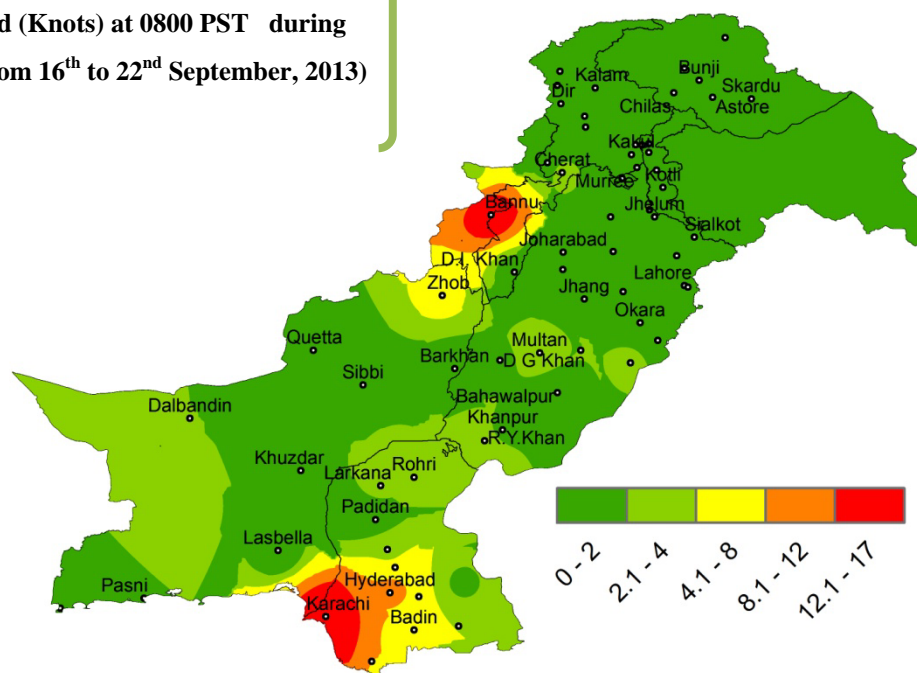
Mean relative humidity (%) during
the last week (from 16th to 22nd September, 2013)



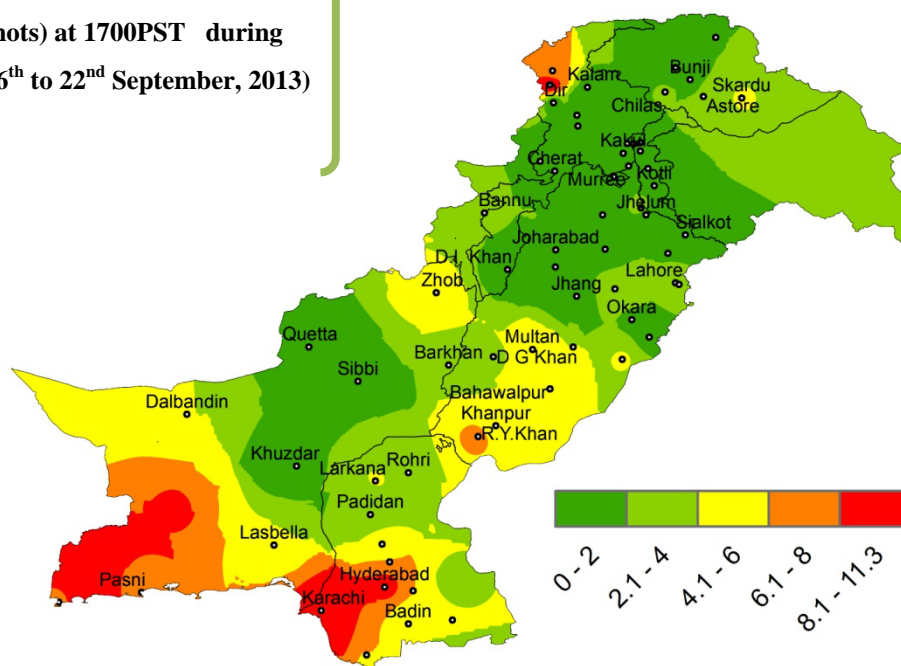
Total growing degree days accumulated during
the last week (from 16th to 22nd September, 2013)



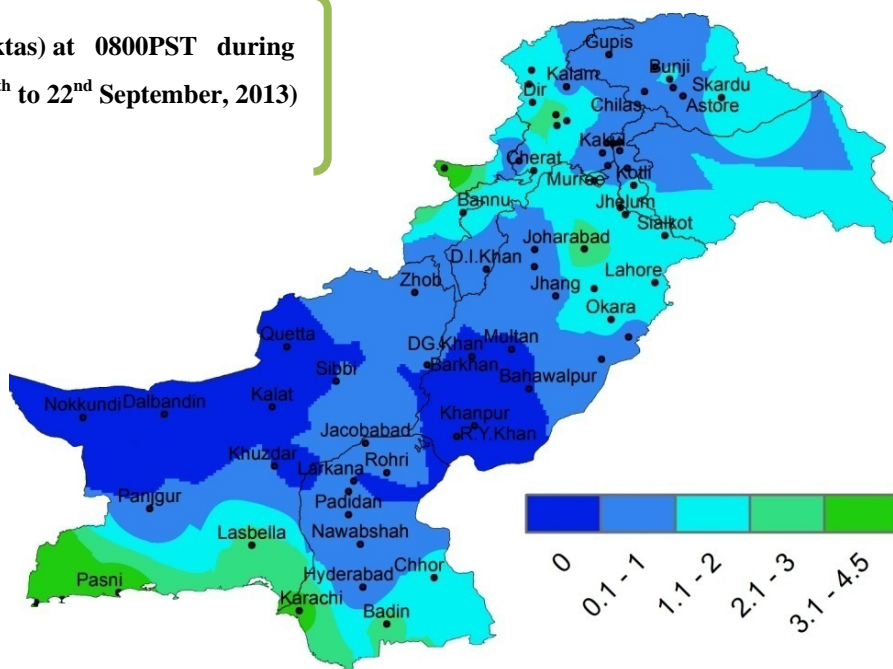
Mean wind speed (Knots) at 0800 PST during
the last week (from 16th to 22nd September, 2013)



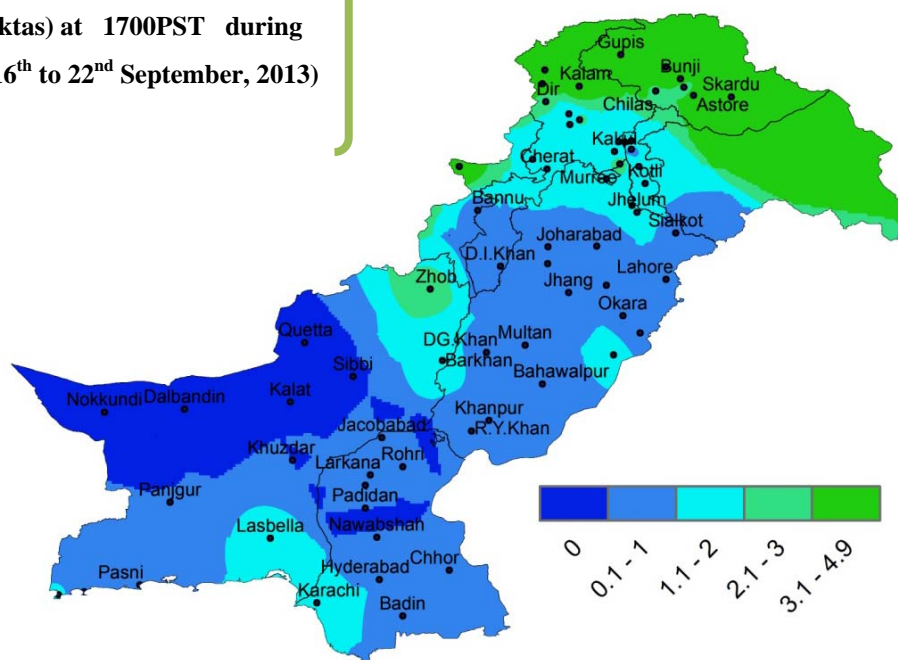
Mean wind speed (Knots) at 1700 PST during
the last week (from 16th to 22nd September, 2013)



Mean Cloudiness (Oktas) at 0800PST during the last week (from 16th to 22nd September, 2013)



Mean Cloudiness (Oktas) at 1700PST during the last week (from 16th to 22nd September, 2013)



Weekly Weather advisory for Farmers **(From 23rd to 29th September, 2013):**

A monsoon low lies over central parts of south Madhya Pradesh and neighborhood. This low is likely to move west-southwestward in next 3 to 4 days and likely to enter North Arabian Sea and adjoin areas of Sindh Coast on Friday and would persist there as well as marked low for the next 2 to 3 days. Under the influence of this weather system moderate monsoon currents would penetrate into Sindh. A shallow westerly wave is affecting upper parts and Kashmir and would persist for next 2 days. Another fresh westerly wave would affect upper parts on Saturday / Sunday

Punjab including Islamabad: Mainly hot and dry weather is expected in most parts of the province during the first half of the week, however, isolated rain/thundershower is expected in Islamabad, Rawalpindi, Gujranwala, divisions during the second half of the week.

Khyber Pakhtunkhwa: Mainly dry weather is expected in most parts of the province during the week. However, isolated rain-thunderstorm is expected in upper KP (Malakand, Hazara, Kohat and Peshawar divisions) during the week.

Balochistan: Mainly hot and dry weather is expected in most parts of the province during the week

Sindh: Mainly hot and dry/windy weather is expected in most parts of the province; however, rain-thundershower is expected at isolated places of Southeastern Sindh (Mirpurkhas and Hyderabad divisions) during first half of the week. Scattered rain/thundershower is expected in the South/Southeastern Sindh (Mirpurkhas, Hyderabad and Karachi divisions) during Thursday to Sunday.

Gilgit-Baltistan: Fair/Partly cloudy weather is expected in most parts of Gilgit-Baltistan during first half of the week. While, scattered rain/thunderstorm is expected during the second half of the week.

Kashmir: Mainly dry weather is expected in most parts of Kashmir during first half of the week. While, scattered rain/thunderstorm is expected during the second half of the week.

Advices for Crops:

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

General Information: Farmers of rained 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 the upper half of the country.

National Weather Data of Selected Cities
(Weekly Data from 16th to 22nd September, 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	Heights							
Astore	23.3	25.5	65.3	42	3.0	0.8	4.2	0.3	3.3
Badin	35.9	38.0	177.5	66	0.0	2.3	0.7	4.3	4.0
Bahawalnagar	36.3	37.8	180.1	59	0.0	0.5	1.3	2.7	4.3
Bahawalpur	37.0	39.0	181.3	61	0.0	0.0	0.3	0.3	4.3
Balakot	31.7	32.5	127.2	70	0.0	0.7	1.5	0.3	0.0
Bannu	36.0	37.4	165.6	56	0.0	1.3	0.5	16.5	2.7
Barkhan	34.9	36.5	156.0	43	0.0	0.0	2.0	0.3	2.7
Bunji	30.9	33.0	123.2	40	0.8	1.5	5.0	0.0	1.3
Cherat	28.3	29.5	129.0	54	0.0	1.7	1.8	2.7	2.0
Chhor	39.9	42.5	***	59	0.0	1.2	0.3	1.6	3.3
Chilas	32.6	36.7	149.3	25	0.0	0.6	2.8	0.3	2.3
Chitral	31.7	34.0	116.3	66	1.0	1.4	4.8	0.0	6.3
DG.Khan	36.9	39.0	183.9	63	0.0	0.0	0.0	1.7	3.7
D.I.Khan	37.4	38.5	175.8	60	0.0	0.5	0.0	0.0	0.3
Dalbandin	40.6	42.0	176.0	24	0.0	0.0	0.0	2.0	4.0
Dir	29.2	32.0	108.8	72	17.0	1.7	2.5	0.0	0.3
Drosh	32.1	35.0	144.6	39	0.0	1.8	3.5	0.0	10.7
Faisalabad	36.4	38.5	174.5	54	0.1	1.2	0.6	0.9	0.9
Garidopatta	33.8	35.0	143.8	60	0.0	0.0	0.7	0.0	1.0
Gawader	32.8	34.0	***	73	0.0	3.0	0.0	0.0	11.3
Gilgit	31.7	35.0	111.8	63	0.1	0.8	4.0	0.0	0.0

Gupis	26.6	28.5	***	37	0.0	0.7	3.0	0.7	2.0
Hyderabad	38.6	41.5	189.8	59	0.0	0.0	1.0	9.2	8.7
Islamabad	33.2	35.0	148.2	70	1.0	1.2	1.3	0.3	0.3
Jacobabad	36.7	38.0	***	66	0.0	0.8	0.0	2.4	2.7
Jhang	37.5	39.0	177.4	58	0.0	1.0	0.0	0.7	0.3
Jhelum	35.2	36.5	165.3	70	0.0	1.2	1.0	0.0	0.3
Jiwani	31.5	32.5	164.1	77	0.0	4.4	1.2	1.6	7.3
Joharabad	35.9	37.5	173.1	70	0.0	0.5	0.0	0.7	1.7
Kakul	29.5	31.5	112.1	70	0.0	0.3	1.5	0.0	1.7
Kalam	24.3	27.0	101.8	63	4.0	0.7	4.3	0.0	0.7
Kalat	29.3	31.0	***	25	0.0	0.0	0.0	0.0	2.0
Karachi	34.4	36.5	177.5	71	0.0	3.3	1.5	17.0	9.7
Khanpur	36.9	39.7	181.6	74	0.0	0.0	0.2	1.3	4.3
Khuzdar	36.4	37.0	168.8	17	0.0	0.0	0.0	0.0	0.7
Kotli	35.5	36.5	150.5	65	0.0	1.3	1.2	1.5	1.5
Lahore	34.5	36.0	166.6	67	6.0	2.0	1.0	1.7	3.0
Larkana	37.8	40.0	187.3	69	0.0	0.0	0.3	2.4	4.3
Lasbella	39.4	40.5	189.5	59	0.1	2.2	1.5	0.0	4.3
Lower Dir	34.4	35.5	126.8	51	0.0	3.0	1.0	1.3	2.0
Malam Jabba	20.8	23.5	***	79	0.0	1.3	2.3	0.0	0.0
M.B Din	35.1	37.3	166.7	82	0.0	2.7	0.3	0.0	0.3
Mangla	34.1	35.5	155.4	70	0.0	1.5	1.5	2.3	3.0
Mir Khani	31.5	34.4	***	46	0.0	0.0	1.3	0.0	1.7
Moinjodaro	38.5	41.0	***	64	0.0	0.0	0.0	2.0	3.2
Multan	36.6	38.5	184.7	57	0.0	0.0	0.3	3.3	5.7

Murree	23.5	25.2	70.0	70	0.0	1.0	2.5	2.0	0.7
Muzaffarabad	35.3	37.6	149.6	59	0.0	1.2	1.3	0.0	0.0
Nokkundi	41.1	42.5	***	11	0.0	0.0	0.0	3.2	5.7
Noorpurthal	38.0	39.5	177.9	68	0.0	0.0	0.3	0.3	0.0
Okara	35.4	37.5	172.8	63	0.0	1.5	1.0	1.0	1.7
Padidan	39.3	42.0	191.3	66	0.0	0.4	0.0	0.8	2.0
Panjgur	37.8	38.0	***	38	0.0	0.0	0.0	3.6	8.3
Parachinar	24.4	26.4	***	59	8.0	4.5	4.5	3.2	3.0
Pasni	32.3	32.5	116.8	79	0.0	3.7	0.7	2.0	7.0
Pattan	36.4	39.0	153.0	52	0.0	0.5	1.8	0.0	0.0
Peshawar	35.0	35.5	164.2	65	0.0	0.5	1.6	0.7	0.8
Quetta	31.2	32.5	106.6	25	0.0	3.3	3.3	0.0	0.0
R.Y.Khan	38.5	41.6	186.7	63	0.0	0.0	0.0	3.7	6.7
Rawalakot	28.1	30.0	101.2	71	0.1	0.0	1.2	0.0	1.0
Rohri	37.0	39.0	190.5	62	0.0	0.0	0.0	2.0	3.0
Rawalpindi	33.6	36.0	152.4	65	1.8	1.0	1.2	0.8	1.2
Sahiwal	36.1	37.4	170.7	64	0.0	0.5	0.5	0.7	1.0
Saidu Sharif	31.8	33.0	136.2	64	0.0	1.8	1.0	0.0	0.0
Sialkot	33.0	34.3	158.8	72	0.0	1.3	0.8	0.3	0.7
Sibbi	40.0	42.5	199.8	57	0.0	0.0	0.0	0.0	0.0
Skardu	26.2	31.0	82.1	44	0.1	1.5	4.5	0.0	4.2
Tandojam	37.7	39.5	184.0	70	0.0	0.6	0.3	0.3	0.3
U.Muhammad	35.3	37.0	173.8	63	0.0	0.1	0.1	0.6	0.7
Zhob	33.8	35.0	147.5	36	0.0	0.4	2.3	5.0	5.7

*** Shows that data was not available.