

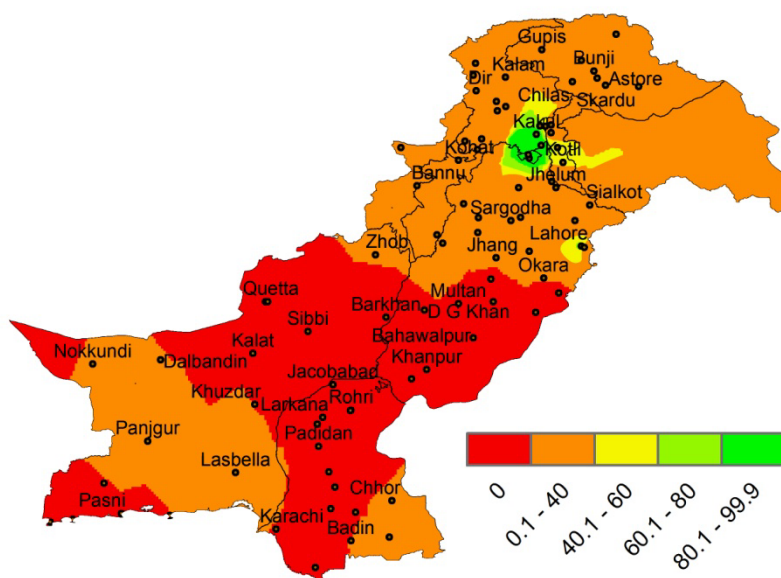
Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall distribution (mm) during the
last week (from 9th to 15th September, 2013)**



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Highlights of Past Weather (from 9th to 15th September, 2013)

- Light to moderate rainfall with isolated heavy spells reported from a few places in the Upper Punjab during the week.
- Light to moderate rainfall with isolated heavy spells reported from a few places in the Khyber-Pakhtunkhwa Province during the week.
- Light to moderate rainfall reported from most of places in the Gilgit Baltistan & Kashmir regions during the week.
- Mainly dry weather reported from most parts of the Sindh Province, while moderate rainfall reported from a single place i.e Mithi during the week.
- Mainly dry weather reported from most parts of the Balochistan Province, while light rainfall reported from few places in the Balochistan during the week.

Patron -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 spells reported from a few places in the Upper Punjab during the week. Weekly maximum and minimum temperatures are recorded as 35.8°C & 24.3°C respectively. For the present season average 173.5 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 1.2/3.0 Knots. During the previous week highest amount of rainfall reported at the Islamabad (Airport) as 140.0mm and extreme maximum temperature recorded as 41.6°C at the Rahim Yar Khan.

Sindh:

Mainly dry weather reported from most parts of the Sindh Province, while moderate rainfall reported from a single place i.e Mithi during the week. Weekly maximum and minimum temperatures are recorded as 37.6°C & 25.5°C respectively. For the present season average 181.7 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 3.3/5.0 Knots. During the previous week highest amount of rainfall reported at the Mithi as 13.0mm and extreme maximum temperature recorded as 42.0°C at the Shaheed Benazirabad.

Khyber Pakhtunkhwa:

Light to moderate rainfall with isolated heavy spells reported from a few places in the Khyber-Pakhtunkhwa Province during the week. Weekly maximum and minimum temperatures are recorded as 30.2°C & 19.0°C respectively. For the present season average 138.4 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 0.7/3.9 Knots.

During the previous week highest amount of rainfall reported at the Kakul as 95.0mm and extreme maximum temperature recorded as 38.5°C at the D.I. Khan.

Balochistan:

Mainly dry weather reported from most parts of the Balochistan Province, while light rainfall reported from few places in the Balochistan during the week. Weekly maximum and minimum temperatures are recorded as 35.6°C & 21.4°C respectively. For the present season average 165.3 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 1.1/5.4 Knots. During the previous week highest amount of rainfall reported at the Panjgur as 7.0mm and extreme maximum temperature recorded as 42.0°C at the Nokkundi.

Gilgit Baltistan and Azad Jammu & Kashmir:

Light to moderate rainfall reported from most of places in the Gilgit Baltistan & Kashmir regions during the week. Weekly maximum and minimum temperatures are recorded as 29.2°C & 16.7°C respectively. For the present season average 125.6 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 0.1/2.7 Knots. During the previous week highest amount of rainfall reported at the Rawalakot as 52.0mm and extreme maximum temperature recorded as 39.4°C at the Chilas.

Past Weather for Major Agricultural- Plains (from 9th to 15th September, 2013)

Rawalpindi (Pothar region)

Rainfall reported as 91.0mm during the week; however cloudiness in the morning/evening recorded as 4.7/3.0 Oktas while average relative humidity observed as 79%. Mean day time temperature recorded as 30.5°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 1.1/1.1Km/h.

Faisalabad (Central Punjab)

Rainfall reported as 3.0mm during the week; however cloudiness in the morning/evening recorded as 0.7/2.3 Oktas while average relative humidity observed as 52%. Mean day time temperature recorded as 37.7°C & for the present season 186.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.6/3.0 Km/h.

Tandojam (Lower Singh)

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.0/3.0 Oktas while average relative humidity observed as 78%. Mean day time temperature recorded as 36.4°C & for the present season 176.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.0/4.0 Km/h.

Quetta (Northern Balochistan)

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.0/1.6 Oktas while average relative humidity observed as 30%. Mean day time temperature recorded as 31.5°C & for the present season 114.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 5.7/6.7Km/h.

Usta Muhammad (Eastern Balochistan)

No rainfall and cloudiness reported during the week; however average relative humidity observed as 68% during the week. Mean day time temperature recorded as 35.6°C & for the present season 174.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.1/0.1 Km/h.

Past Weather for Sub Regional Agricultural- Plains (from 9th to 15th September, 2013)

Rohri

No rainfall and cloudiness reported during the week; however while average relative humidity observed as 53%. Mean day time temperature recorded as 39.7°C & for the present season 198.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.1/1.7 Knots.

Multan

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.7/0.0 Oktas while average relative humidity observed as 53%. Mean day time temperature recorded as 38.6°C & for the present season 192.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 5.4/8.6Knots.

Lahore

Rainfall reported as 86.0mm during the week; however cloudiness in the morning/evening recorded as 1.7/5.3 Oktas while average relative humidity observed as 66%. Mean day time temperature recorded as 35.2°C & for the present season 178.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.7/4.6 Knots.

Zhob

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.3/2.0 Oktas while average relative humidity observed as 35%. Mean day time temperature recorded as 34.6°C & for the present season 163.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.6/5.6 Knots.

D.I. Khan

Rainfall reported as 0.1mm while no cloudiness recorded during the week. Average relative humidity observed as 60%. Mean day time temperature recorded as 37.8°C & for the present season 181.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/0.6 Knots.

Peshawar

Rainfall reported as 2.0mm during the week; however cloudiness in the morning/evening recorded as 3.9/6.4 Oktas while average relative humidity observed as 70%. Mean day time temperature recorded as 33.6°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 1.1/1.7 Knots.

Murree

Rainfall reported as 100.0mm during the week; however cloudiness in the morning/evening recorded as 6.1/5.1 Oktas while average relative humidity observed as 87%. Mean day time temperature recorded as 19.4°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 0.6/2.0 Knots.

Kalam

Rainfall reported as 10.0mm during the week; however cloudiness in the morning/evening recorded as 3.9/5.9 Oktas while average relative humidity observed as 74%. Mean day time temperature recorded as 23.0°C & for the present season 103.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.9 Knots.

Gilgit

Rainfall reported as 14.0mm during the week; however cloudiness in the morning/evening recorded as 3.3/4.1 Oktas while average relative humidity observed as 66%. Mean day time temperature recorded as 30.9°C & for the present season 125.6 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/3.4 Knots.

Skardu

Rainfall reported as 0.3mm 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 29.7°C & for the present season 104.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/5.3 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 *Ninth Leaf* stage.

Central Punjab (Faisalabad)

There are two crops (rainfed 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)

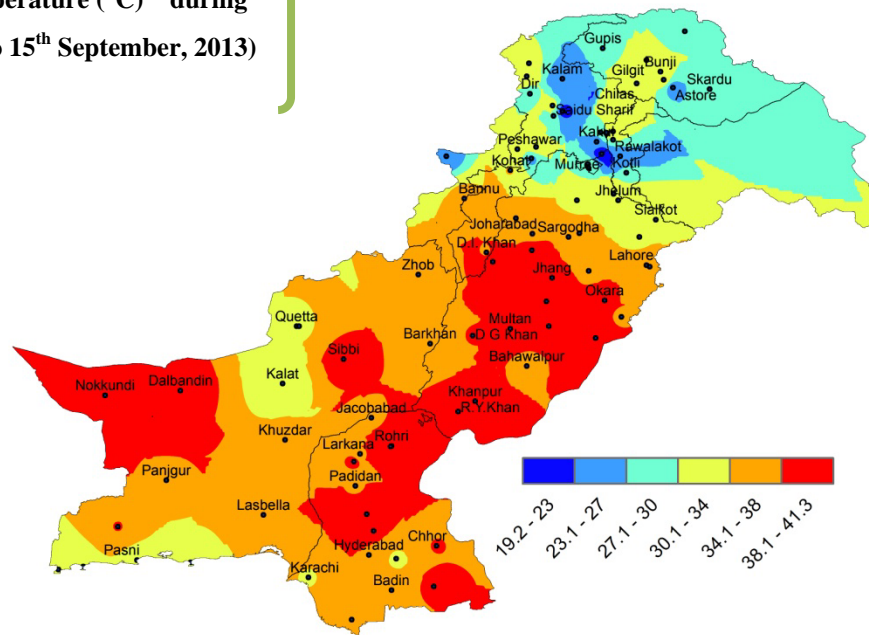
There is presently no crop in the fields.

Eastern Balochistan (Usta Muhammad)

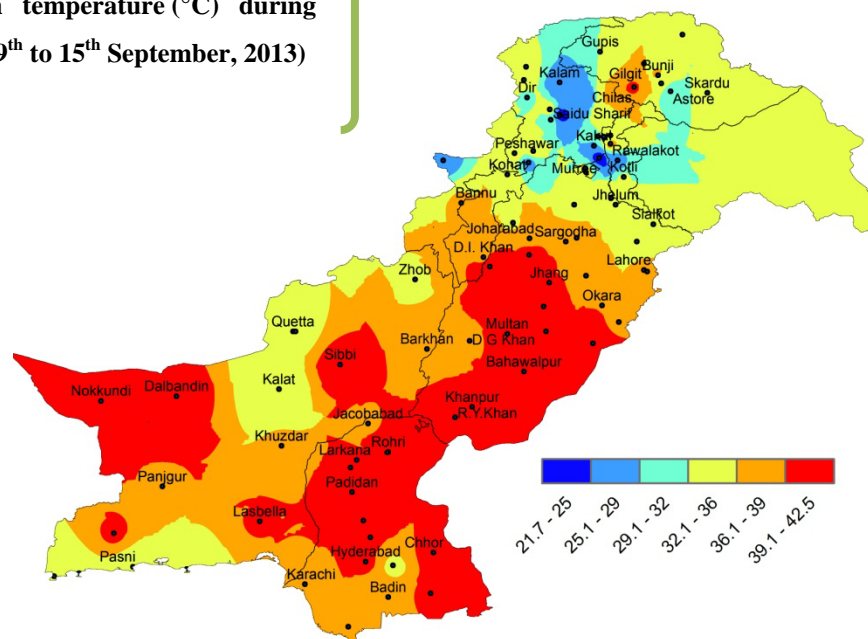
There is only one crop (irrigated conditions) grown in the fields as detailed below.

Rice: Good condition at *Flowering* stage almost completed.

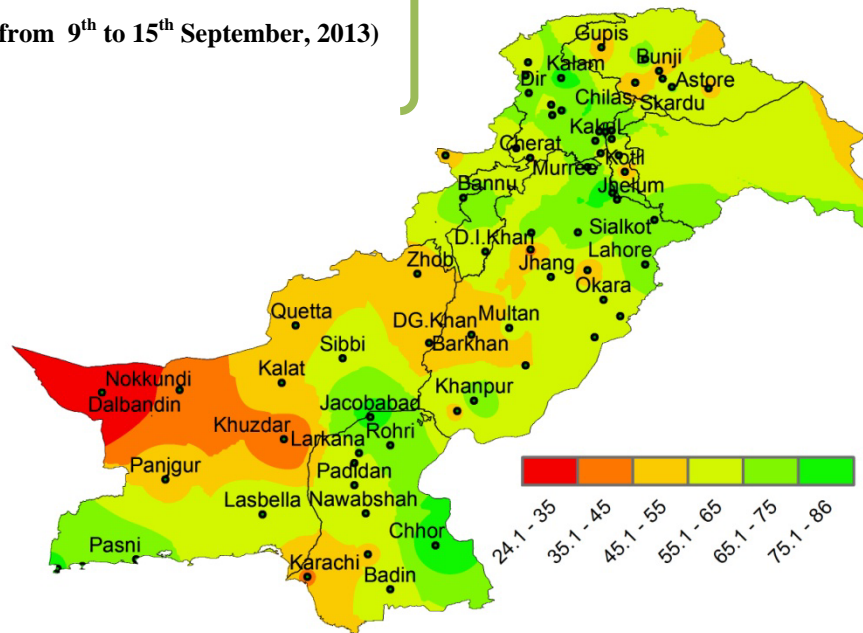
Mean maximum temperature (°C) during the last week (from 9th to 15th September, 2013)



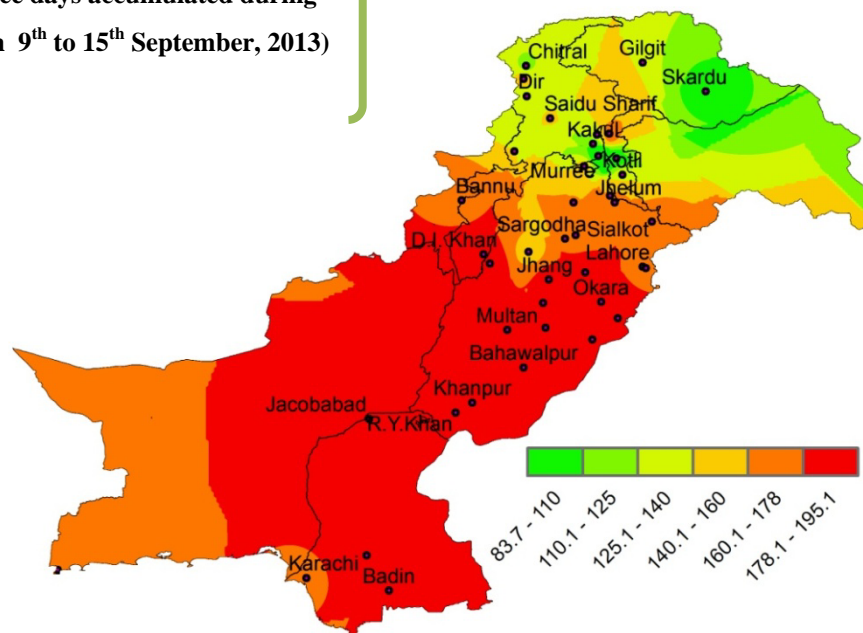
Extreme maximum temperature (°C) during the last week (from 9th to 15th September, 2013)



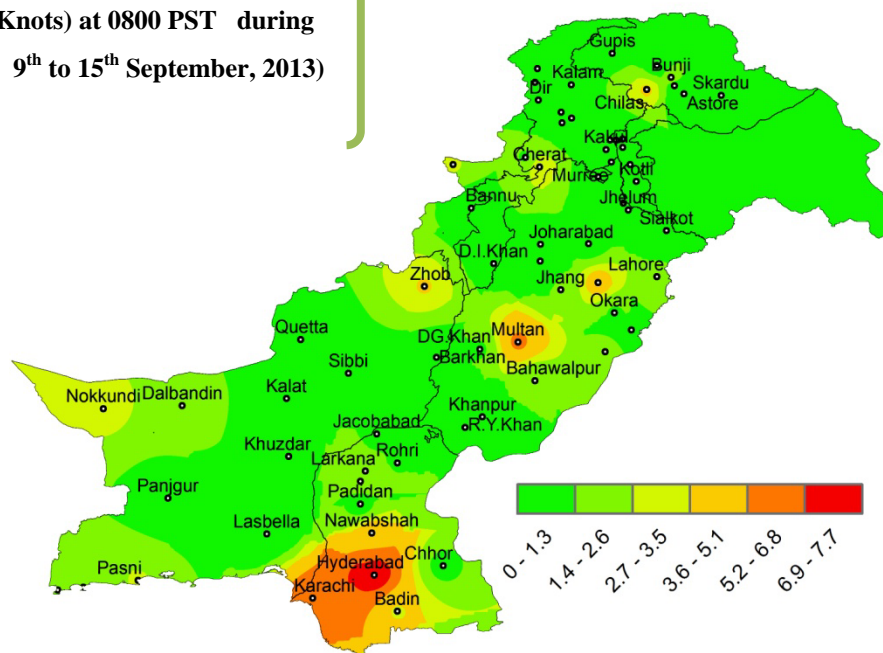
**Mean relative humidity (%) during
the last week (from 9th to 15th September, 2013)**



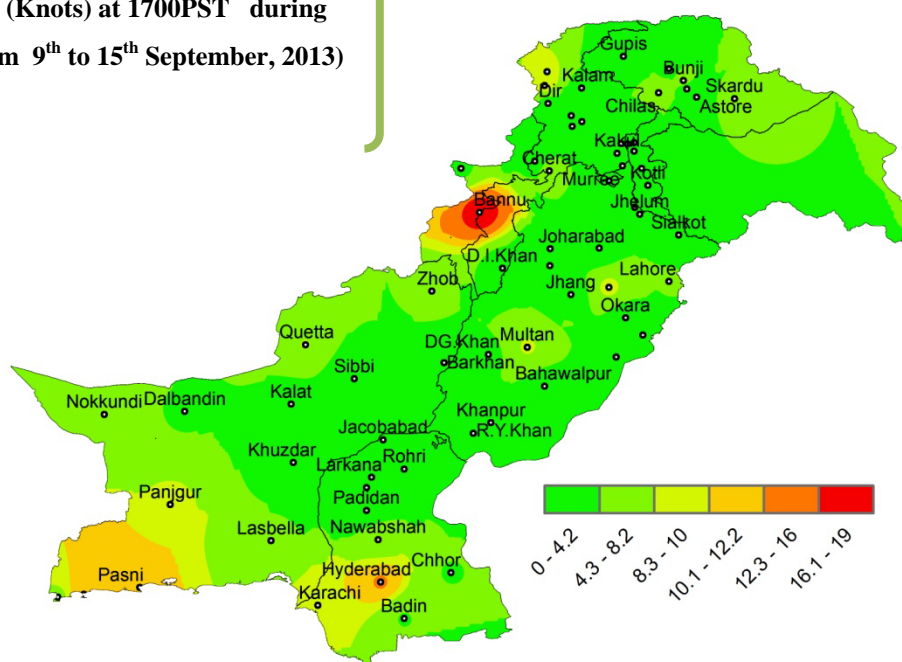
**Total growing degree days accumulated during
the last week (from 9th to 15th September, 2013)**



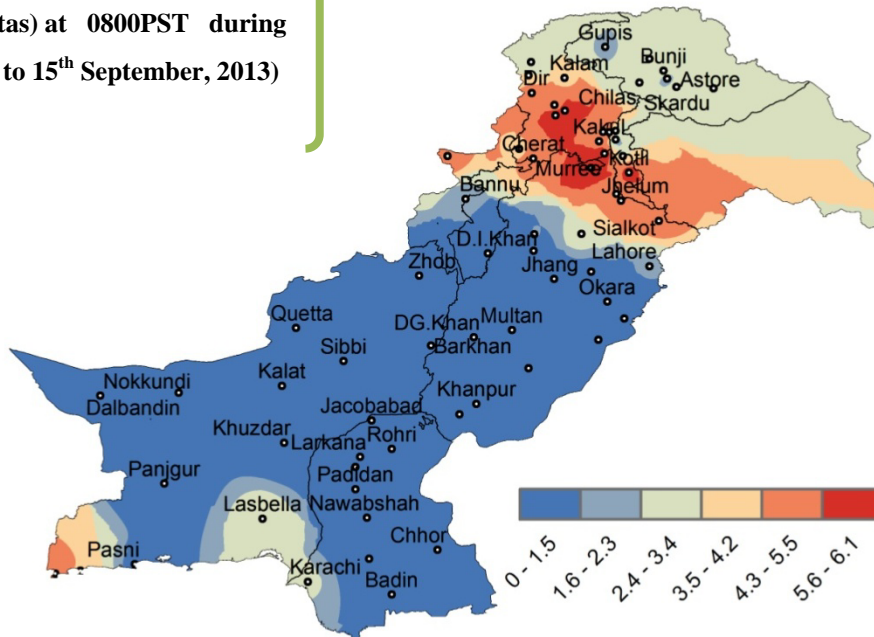
Mean wind speed (Knots) at 0800 PST during
the last week (from 9th to 15th September, 2013)



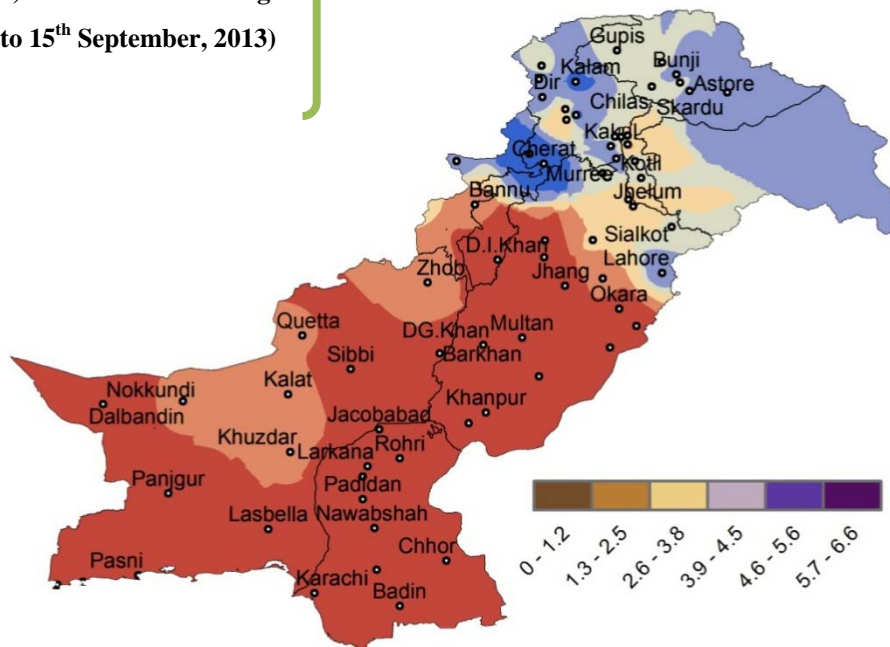
Mean wind speed (Knots) at 1700 PST during
the last week (from 9th to 15th September, 2013)



Mean Cloudiness (Oktas) at 0800PST during the last week (from 9th to 15th September, 2013)



Mean Cloudiness (Oktas) at 1700PST during the last week (from 9th to 15th September, 2013)



Weekly Weather advisory for Farmers (From 16th to 22nd September, 2013)

A shallow westerly wave prevailing over Kashmir and adjoining area and is likely to move eastward in next 24-36 hours. Monsoon currents of weak intensity would continue to penetrate northeastern parts of the country up to 3000 feet during next 24 hrs and likely to cut off thereafter.

A fresh shallow westerly wave is likely to approach northern parts of the country on Saturday/Sunday

Punjab including Islamabad:

Mainly dry weather is expected in most parts of the province during the week, however, rain-thundershower is expected at isolated places in Islamabad, Rawalpindi, Gujranwala, Lahore, Sargodha divisions during next 24 hours and also during the weekend.

Khyber Pakhtunkhwa:

Mainly dry weather is expected in most parts of the province during the week; however rain-thundershower is expected at isolated places in Malakand and Hazara divisions during next 24 hours and also during the weekend.

Balochistan:

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

Sindh:

Mainly Hot and dry weather conditions are expected in most part of the province during the week.

Gilgit-Baltistan:

Fair/Partly cloudy weather is expected in most parts of Gilgit-Baltistan during the week.

Rain-thunderstorm is expected at isolated places during next 24hours and also during the weekend.

Kashmir:

Fair/Partly cloudy weather is expected in most parts of Kashmir during the week.

Rain-thundershower is expected at isolated places during next 24-36 hours and also during the weekend.

Advises 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 9th to 15th 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	24.5	28.7	84.3	55	8.1	3.1	5.0	0.0	3.4
Badin	35.6	37.5	178.9	64	0.0	1.1	0.7	3.4	4.0
Bahawalnagar	39.3	41.0	195.1	54	0.0	0.0	0.0	1.4	1.4
Bahawalpur	37.8	39.2	187.8	56	0.0	0.0	0.0	1.4	2.0
Balakot	28.0	30.7	128.8	80	79.0	5.1	4.3	0.0	0.3
Bannu	36.0	37.0	172.6	56	4.0	1.6	1.4	0.0	19.0
Barkhan	34.9	36.5	158.3	44	0.0	0.0	0.9	0.0	1.7
Bunji	31.7	36.3	148.2	39	12.0	3.6	5.7	2.3	5.4
Cherat	32.8	34.5	118.5	81	3.1	4.9	6.6	3.4	6.1
Chhor	38.1	40.7	178.4	68	0.0	0.6	0.7	0.9	4.0
Chilas	33.9	39.4	160.1	38	12.3	2.6	4.0	3.7	5.1
Chitral	31.1	33.5	126.8	68	0.0	2.6	4.0	0.0	9.1
DG.Khan	38.1	38.7	180.6	62	0.0	0.4	0.6	1.1	3.1
D.I.Khan	37.8	38.5	181.0	60	0.1	0.0	0.0	0.6	0.6
Dalbandin	41.3	42.0	190.3	23	0.0	0.0	1.6	2.6	3.7
Dir	28.6	31.0	124.6	78	40.0	5.0	5.3	0.0	1.7
Drosh	32.0	34.5	150.8	48	29.0	3.4	5.0	0.0	9.7
Faisalabad	37.7	38.5	186.1	52	3.0	0.7	2.3	2.6	3.0
Garidopatta	29.3	36.5	143.5	75	16.0	1.7	2.0	0.0	0.6
Gawader	32.4	34.0	163.6	69	0.0	4.2	1.0	1.7	12.3
Gilgit	30.9	36.0	125.6	66	14.0	3.3	4.1	0.0	3.4

Gupis	27.9	32.0	114.5	43	0.0	2.1	4.0	0.9	2.9
Hyderabad	37.9	40.0	186.5	61	0.0	0.0	0.7	7.7	12.6
Islamabad	28.8	32.5	146.8	86	99.0	6.1	3.9	0.0	1.1
Jacobabad	36.9	38.0	187.4	65	0.0	0.0	0.0	0.9	1.7
Jhang	38.4	39.2	178.4	57	0.0	0.0	0.0	1.4	1.7
Jhelum	33.8	35.3	169.4	75	25.0	4.6	3.4	0.9	3.1
Jiwani	31.6	33.0	161.9	77	0.0	4.8	1.0	1.7	7.4
Joharabad	36.7	38.0	178.9	66	9.0	1.6	1.0	0.9	1.7
Kakul	25.4	28.0	112.1	80	95.0	5.1	4.7	0.6	0.6
Kalam	23.0	25.0	103.0	74	10.0	3.9	5.9	0.0	0.9
Kalat	30.4	32.0	107.8	29	0.0	0.0	1.9	0.0	2.6
Karachi	33.9	36.5	176.0	69	0.0	2.5	0.6	6.0	9.0
Khanpur	38.2	40.1	186.0	67	0.0	0.0	0.0	0.3	1.1
Khuzdar	35.3	36.5	162.8	17	0.0	0.0	1.4	0.0	1.4
Kotli	28.3	32.5	136.7	78	40.0	6.0	3.9	0.7	1.4
Lahore	35.2	36.5	178.5	66	86.0	1.7	5.3	1.7	4.6
Larkana	37.8	39.0	185.2	63	0.0	0.7	0.3	2.3	2.3
Lasbella	37.9	39.5	185.4	61	0.1	3.2	1.0	0.0	5.1
Lower Dir	32.4	34.5	136.1	70	2.0	4.7	3.7	1.4	2.0
Malam Jabba	18.9	21.5	112.2	88	37.0	5.9	6.3	0.0	0.3
M.B Din	34.0	36.5	169.4	76	10.0	3.1	2.7	0.3	1.1
Mangla	32.4	34.3	159.7	77	28.2	4.4	3.6	0.6	3.4
Mir Khani	32.5	34.5	***	43	23.0	1.6	3.4	0.7	2.7
Moinjodaro	38.1	40.0	188.4	60	0.0	0.5	0.4	2.3	2.6
Multan	38.6	40.0	192.7	53	0.0	0.7	0.0	5.4	8.6

Murree	19.4	22.0	83.5	87	100.0	6.1	5.1	0.6	2.0
Muzaffarabad	29.4	33.4	139.7	75	47.0	5.6	4.3	0.0	0.0
Nokkundi	41.1	42.0	149.4	11	0.0	0.4	0.0	2.9	6.0
Noorpurthal	39.9	40.5	192.3	59	25.0	0.4	0.0	0.0	1.7
Okara	38.3	39.0	190.0	60	0.0	0.0	0.6	1.1	1.7
Padidan	37.7	40.5	182.4	67	0.0	0.3	0.0	0.3	1.7
Panjgur	37.4	38.5	***	44	7.0	0.0	0.6	0.0	8.9
Parachinar	24.1	26.0	126.0	60	25.0	5.3	5.1	2.7	3.3
Pasni	32.1	32.5	125.3	76	0.0	1.2	0.0	2.7	10.9
Pattan	34.4	36.0	***	58	15.0	3.1	3.3	0.0	1.1
Peshawar	33.6	35.0	170.3	70	2.0	3.9	6.4	1.1	1.7
Quetta	31.5	34.0	114.4	30	0.0	0.0	1.6	5.7	6.
R.Y.Khan	40.3	41.6	192.0	57	0.0	0.0	0.0	1.1	4.3
Rawalakot	23.2	26.5	96.3	88	52.0	3.3	4.3	0.0	1.4
Rohri	39.7	41.0	198.9	53	0.0	0.0	0.0	1.1	1.7
Saidu Sharif	37.6	38.0	141.2	74	29.0	6.1	2.4	0.0	0.3
Sialkot	33.2	34.5	164.9	73	30.0	5.0	3.9	0.0	2.6
Sibbi	40.6	42.5	200.3	59	0.0	0.0	0.0	0.0	0.0
Skardu	29.7	33.6	104.0	52	0.3	3.1	5.6	0.0	5.3
Zhob	34.6	35.5	163.5	35	0.0	0.3	2.0	3.6	5.6

*** Shows that data was not available.