

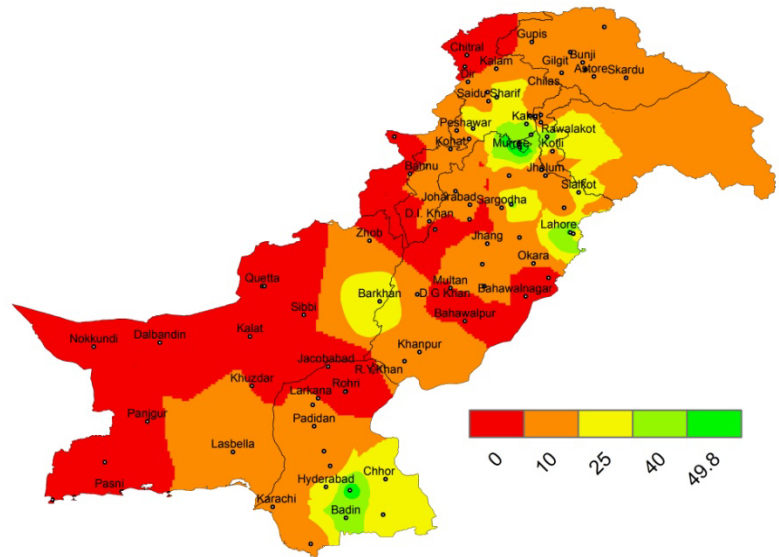
# Weekly Weather and Crop Bulletin for Pakistan

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Rainfall distribution (mm) during the last week (from 23<sup>rd</sup> to 29<sup>th</sup> September, 2013)



## Highlights of Past Weather (from 23<sup>rd</sup> to 29<sup>th</sup> September, 2013)

Mainly hot & humid weather reported from most parts of the country during the week. Province wise distribution of rainfall reported as follows:

- Light to moderate rainfall with isolated heavy spells at a few places reported from upper parts of the Punjab Province.
- Light to moderate rainfall reported from most of the places in the Khyber Pakhtunkhwa Province.
- Light to moderate rainfall reported from most of the places in the Gilgit Baltistan & Kashmir regions.
- Light to moderate rainfall reported at few places in the Balochistan Province.
- Light to moderate rainfall with isolated heavy spells reported at few places in the Sindh Province.

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**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 at a few places reported from upper parts of the Punjab Province during the week. Weekly maximum and minimum temperatures are recorded as 35.6°C & 24.3°C respectively. For the present season average 174.2 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 1.3/2.3 Knots. During the previous week highest amount of rainfall reported at the Islamabad (Airport) as 50.0mm and extreme maximum temperature recorded as 39.5°C at the Bhakkar.

**Sindh:**

Light to moderate rainfall with isolated heavy spells reported at few places in the Sindh Province. Weekly maximum and minimum temperatures are recorded as 36.6°C & 26.4°C respectively. For the present season average 181.6 growing degree days accumulated by the end of last week. Average relative humidity recorded as 65% and wind speed in the morning/evening recorded as 2.3/5.0 Knots. During the previous week highest amount of rainfall reported at the Mirpur Khas as 45.0mm and extreme maximum temperature recorded as 42.1°C at the Chhor.

**Khyber Pakhtunkhwa:**

Weekly maximum and minimum temperatures are recorded as 31.5°C & 18.1°C respectively. For the present season average 135.4 growing degree days accumulated by the end of last week. Average relative humidity recorded as 62% and wind speed in the morning/evening recorded as 0.5/2.9 Knots. During the previous week highest amount of rainfall reported at the Kakul as 32.0mm and extreme maximum temperature recorded as 38.7°C at the D.I. Khan.

**Balochistan:**

Light to moderate rainfall reported at few places in the Balochistan Province. Weekly maximum and minimum temperatures are recorded as 36.1°C & 21.0°C respectively. For the present season average 160.7 growing degree days accumulated by the end of last week. Average relative humidity recorded as 48% and wind speed in the morning/evening recorded as 1.4/4.5 Knots. During the previous week highest amount of rainfall reported at the Barkhan as 23.2mm and extreme maximum temperature recorded as 42.5°C at the Nokkundi.

**Gilgit Baltistan and Azad Jammu & Kashmir:**

Light to moderate rainfall reported from most of the places in the Gilgit Baltistan & Kashmir regions. Weekly maximum and minimum temperatures are recorded as 31.3°C & 14.8°C respectively. For the present season average 166.4 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 0.4/2.0 Knots. During the previous week highest amount of rainfall reported at the Rawalakot as 35.0mm and extreme maximum temperature recorded as 38.5°C at the Pattan.

### **Past Weather for Major Agricultural- Plains (from 23<sup>rd</sup> to 29<sup>th</sup> September, 2013)**

#### **Rawalpindi (Potohar region)**

Rainfall reported as 61.2mm during the week; however cloudiness in the morning/evening recorded as 0.4/1.0 Oktas while, average relative humidity observed as 68%. Mean day time temperature recorded as 34.0°C & for the present season 164.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.5/0.5 Knots.

#### **Faisalabad (Central Punjab)**

Rainfall reported as “Trace” i.e 0.1mm during the week; however cloudiness in the morning/evening recorded as 0.0/4.6 Oktas while, average relative humidity observed as 55%. Mean day time temperature recorded as 36.8°C & for the present season 183.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/0.3 Knots.

#### **Tandojam (Lower Singh)**

Rainfall reported as 25.0mm during the week; however cloudiness in the morning/evening recorded as 2.0/2.6 Oktas while, average relative humidity observed as 65%. Mean day time temperature recorded as 36.6°C & for the present season 181.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/0.6 Knots.

#### **Quetta (Northern Balochistan)**

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.0/1.0 Oktas while, average relative humidity observed as 31%. Mean day time temperature recorded as 31.3°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 2.8/3.6 Knots.

#### **Usta Muhammad (Eastern Balochistan)**

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.1/0.3 Oktas while, average relative humidity observed as 67%. Mean day time temperature recorded as 36.1°C & for the present season 181.3 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 23<sup>rd</sup> to 29<sup>th</sup> September, 2013)**

#### **Rohri**

No rainfall and reported during the week; however cloudiness in the morning/evening recorded as 0.7/1.3 Oktas while however average relative humidity observed as 61%. Mean day time temperature recorded as 36.6°C & for the present season 189.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.0/4.3 Knots.

#### **Multan**

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.0/1.4 Oktas while average relative humidity observed as 60%. Mean day time temperature recorded as 36.7°C & for the present season 187.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.6/10.6 Knots.

#### **Lahore**

Rainfall reported as 49.3mm during the week; however cloudiness in the morning/evening recorded as 1.1/4.1 Oktas while average relative humidity observed as 74%. Mean day time temperature recorded as 34.9°C & for the present season 171.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.1/1.4 Knots.

**Zhob**

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.3/2.3 Oktas while average relative humidity observed as 37%. Mean day time temperature recorded as 36.1°C & for the present season 160.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 4.2/6.1 Knots.

**D.I. Khan**

No rainfall and cloudiness reported during the week; while average relative humidity observed as 64%. Mean day time temperature recorded as 38.7°C & for the present season 180.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.6Knots.

**Peshawar**

Rainfall reported as 0.1mm during the week; however cloudiness in the morning/evening recorded as 1.3/1.3 Oktas while average relative humidity observed as 66%. Mean day time temperature recorded as 35.5°C & for the present season 170.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/0.7 Knots.

**Murree**

Rainfall reported as 29.0mm during the week; however cloudiness in the morning/evening recorded as 1.8/5.6 Oktas while average relative humidity observed as 81%. Mean day time temperature recorded as 22.2°C & for the present season 93.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.0/0.3 Knots.

**Kalam**

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 1.8/2.1 Oktas while average relative humidity observed as 63%. Mean day time temperature recorded as 24.8°C & for the present season 108.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.7/0.9 Knots.

**Gilgit**

Rainfall reported as 0.1mm during the week; however cloudiness in the morning/evening recorded as 1.7/2.9 Oktas while average relative humidity observed as 61%. Mean day time temperature recorded as 31.6°C & for the present season 173.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/3.7 Knots.

**Skardu**

Rainfall reported as 3.0mm during the week; however cloudiness in the morning/evening recorded as 1.2/3.4 Oktas while average relative humidity observed as 43%. Mean day time temperature recorded as 29.5°C & for the present season 99.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/2.1 Knots.

**Crop Situation for Major Agricultural Plains**  
**(Based on data from Regional Agromet Centers)**

**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 at *Picking* stage.

**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)**

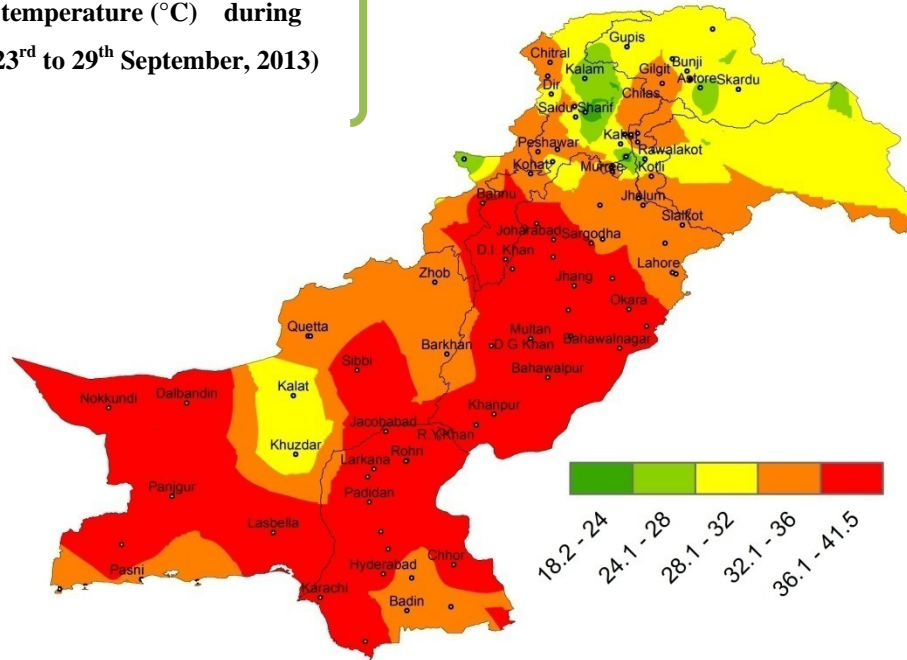
There is presently no crop in the fields.

**Eastern Balochistan (Usta Muhammad)**

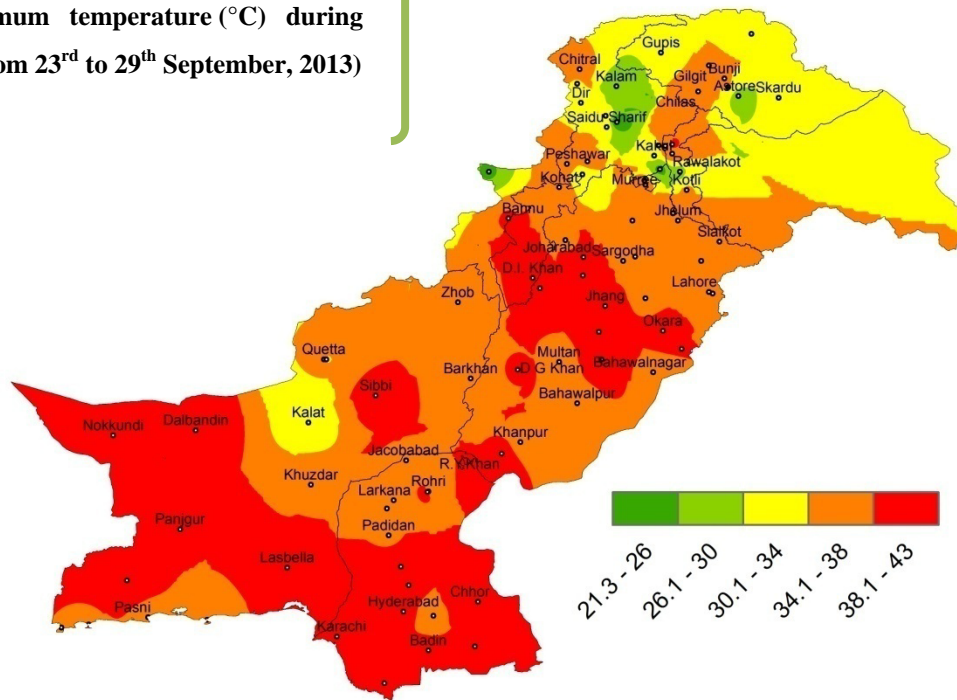
There is only one crop (irrigated conditions) grown in the fields as detailed below.

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

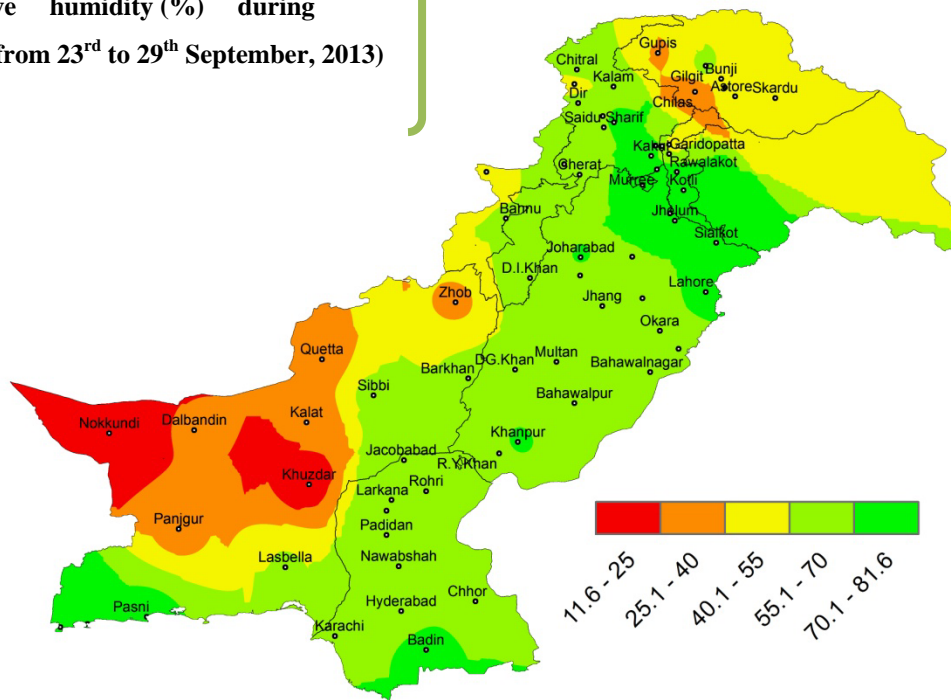
Mean maximum temperature (°C) during the last week (from 23<sup>rd</sup> to 29<sup>th</sup> September, 2013)



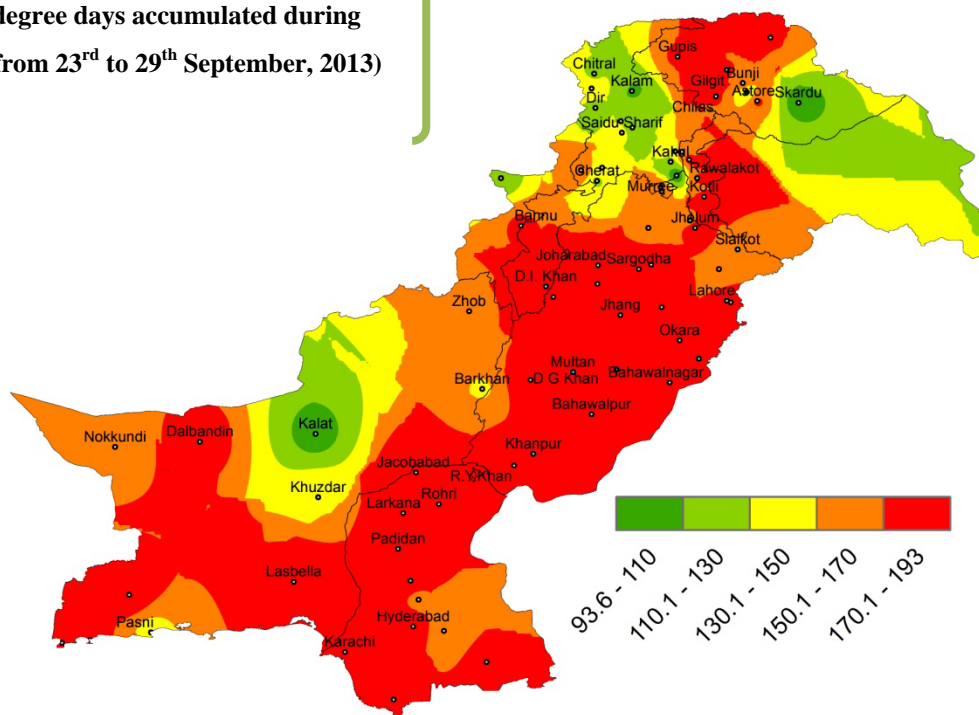
Extreme maximum temperature (°C) during the last week (from 23<sup>rd</sup> to 29<sup>th</sup> September, 2013)



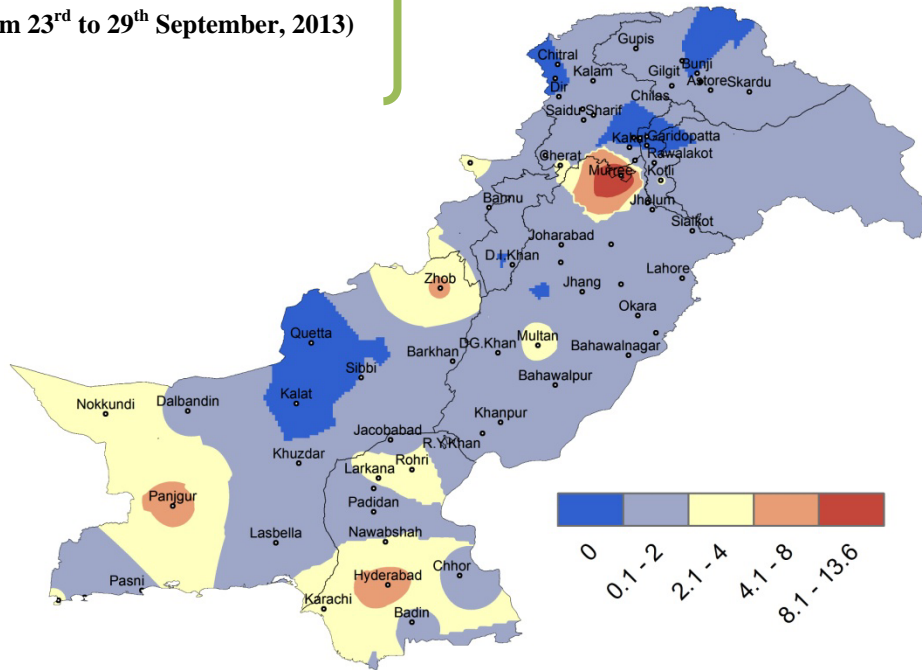
Mean relative humidity (%) during the last week (from 23<sup>rd</sup> to 29<sup>th</sup> September, 2013)



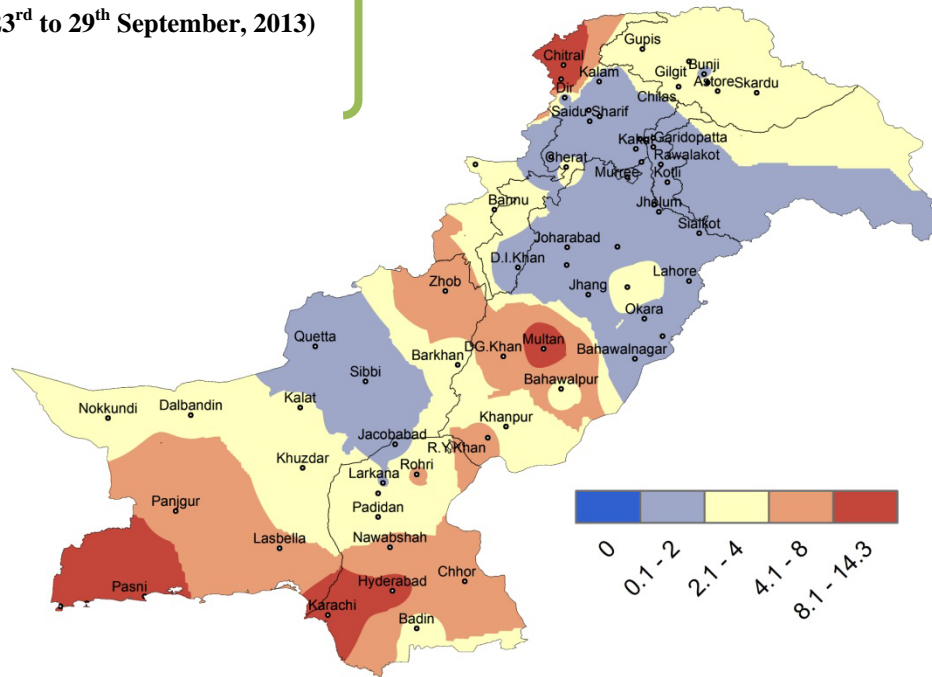
Total growing degree days accumulated during the last week (from 23<sup>rd</sup> to 29<sup>th</sup> September, 2013)



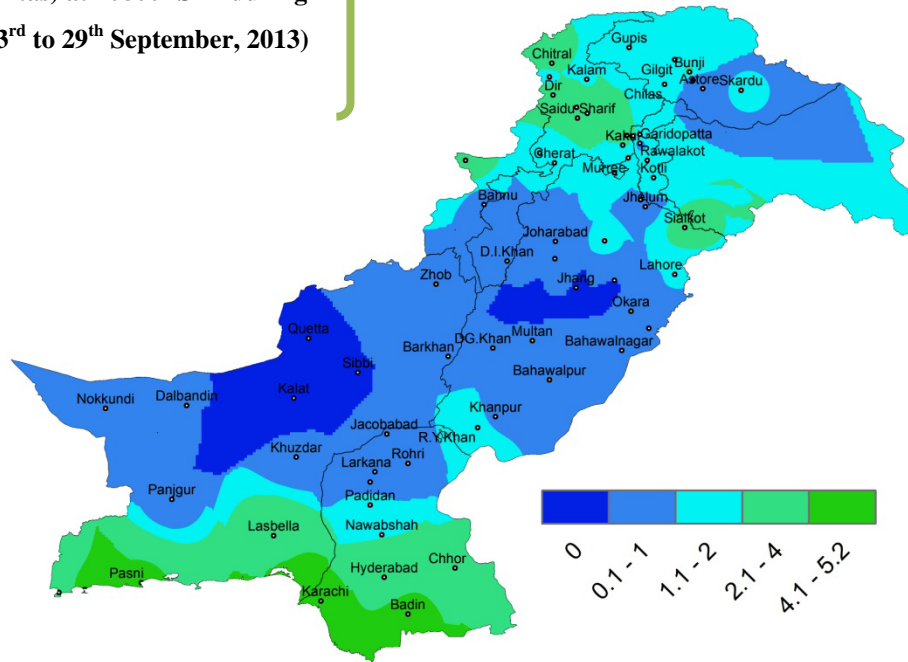
Mean wind speed (Knots) at 0800 PST during the last week (from 23<sup>rd</sup> to 29<sup>th</sup> September, 2013)



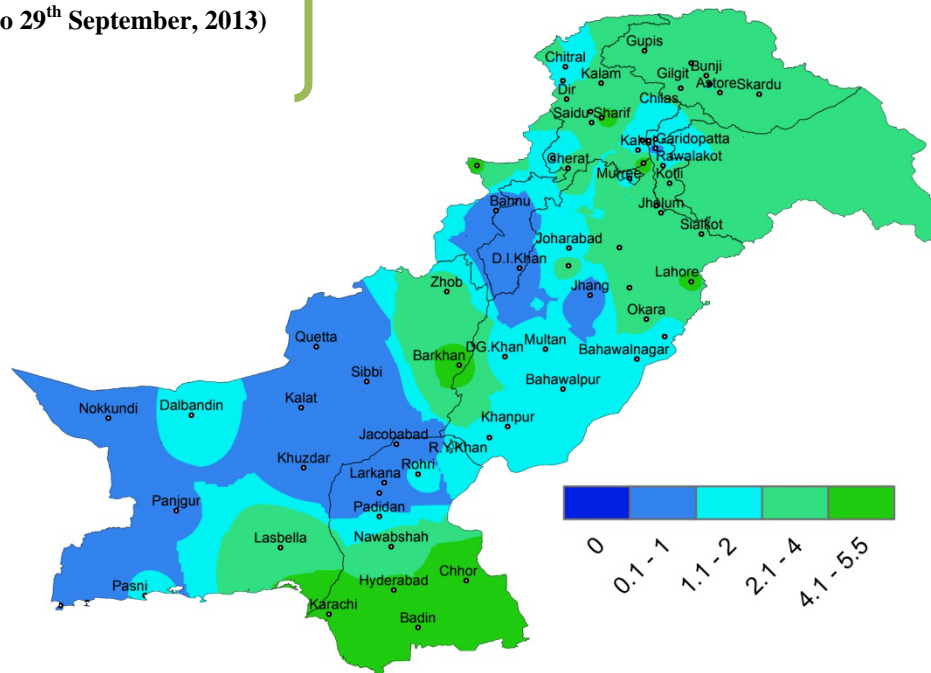
Mean wind speed (Knots) at 1700 PST during the last week (from 23<sup>rd</sup> to 29<sup>th</sup> September, 2013)



Mean Cloudiness (Oktas) at 0800PST during the last week (from 23<sup>rd</sup> to 29<sup>th</sup> September, 2013)



Mean Cloudiness (Oktas) at 1700PST during the last week (from 23<sup>rd</sup> to 29<sup>th</sup> September, 2013)





**Weekly Weather advisory for Farmers**  
**(From 30<sup>th</sup> September to 6<sup>th</sup> October, 2013)**

A shallow westerly trough lies over northern parts of the country and likely to persist during next 2 days.

**Punjab including Islamabad:**

Mainly hot and dry weather is expected in most parts of the province during the week; however, rain-thundershower is expected at isolated places in northeast Punjab (Rawalpindi/Islamabad, Gujranwala, Sargodha, and Lahore divisions) on Monday & Tuesday.

**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 & Hazara divisions on Monday/Tuesday.

**Balochistan:**

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

**Sindh:**

Mainly hot and dry weather is expected in most parts of the province. Rain-thundershower is expected in Mirpur Khas divisions on Tuesday/Wednesday.

**Gilgit-Baltistan:**

Rain-thundershower is expected at isolated places on Monday/Tuesday.

**Kashmir:**

Rain-thundershower is expected at isolated places during first half of the week.

**Advices for Crops:**

***Sugarcane/Cotton:*** 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 23<sup>rd</sup> to 29<sup>th</sup> 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	24.8	26.8	174.2	43	2	0.8	3	0.3	2.9
Badin	35.2	38.5	***	74	29.1	5.0	4.3	1.5	2.9
Bahawalnagar	36.9	37.5	186.6	59	0	0.3	2	0.0	1.7
Bahawalpur	36.7	37.5	183.6	62	0	0.2	1.4	0.3	3.4
Balakot	31.1	33.0	136.5	75	6	2.0	1.9	0.0	0.0
Bannu	37.2	38.5	174.0	56	0	0.5	0.0	0.0	3.7
Barkhan	33.8	34.5	148.0	58	23.2	0.6	4.9	0.0	2.9
Bunji	31.3	34.8	173.9	44	3.1	2.3	3.6	0.0	1.1
Cherat	27.9	29.5	125.8	63	0	1.0	2.4	2.3	2.6
Chhor	37.6	42.1	***	65	12	2.6	5.0	1.6	4.3
Chilas	35.4	37.2	173.6	28	3.1	1.7	2.1	1.0	2.3
Chitral	33.3	36.5	125.3	67	0	2.5	2.0	0.0	9.1
DG. Khan	37.4	38.5	188.7	64	0	0.0	1.0	1.0	5.4
D.I.Khan	38.0	38.7	180.9	64	0	0.0	0.0	0.0	0.6
Dalbandin	41.5	42.5	182.3	26	0	0.0	1.6	1.6	3.7
Dir	31.3	33.0	121.5	66	0	3.5	2.9	0.0	0.9
Drosh	32.7	33.6	148.3	41	0	1.3	1.7	0.0	14.4
Faisalabad	36.8	38.8	183.4	55	0.1	0.0	4.6	0.6	0.3
Garidopatta	35.4	37.5	172.9	57	4	0.7	0.6	0.0	0.0
Gawader	34.7	37.0	176.5	73	0	4.4	0.3	0.0	12.0
Gilgit	31.6	34.5	173.4	61	0.1	1.7	2.9	0.0	3.7

Gupis	28.2	30.5	172.8	39	0	1.0	2.3	1.0	3.7
Hyderabad	36.9	38.5	189.7	64	12	2.5	4.3	5.3	9.7
Islamabad	33.2	34.8	160.3	76	36	1.4	1.6	13.7	0.6
Jacobabad	36.4	37.5	189.3	67	0	0.0	0.0	1.7	1.4
Jhang	38.0	39.0	183.9	62	0	0.0	0.0	0.0	0.0
Jhelum	35.8	37.5	173.6	72	9.1	0.5	2.0	0.0	0.9
Jiwani	34.3	38.0	174.7	72	0	3.0	0.7	2.3	8.9
Joharabad	36.7	38.0	182.8	71	0	0.3	1.4	0.3	1.1
Kakul	29.2	31.0	120.4	71	32	2.0	1.4	0.0	0.6
Kalam	24.8	26.5	108.8	63	0	1.8	2.1	1.7	0.9
Kalat	29.4	31.0	101.0	26	0	0.0	0.7	0.0	2.3
Karachi	36.9	40.5	188.3	67	4	5.2	4.4	3.3	9.4
Khanpur	36.8	37.5	183.4	72	0.1	0.5	2.0	0.0	2.9
Khuzdar	30.9	36.5	145.3	17	0	0.0	0.0	0.0	2.6
Kotli	32.8	34.4	172.4	71	8	1.7	3.3	2.2	1.3
Lahore	34.9	37.2	171.1	74	49.3	1.1	4.1	1.1	1.4
Larkana	36.4	37.5	188.1	67	0	0.5	0.3	3.0	1.7
Lasbella	40.3	42.5	193.0	57	1	3.8	3.9	0.3	4.0
Lower Dir	33.8	34.5	130.3	65	6	3.3	1.9	0.7	2.0
Malam Jabba	17.9	21.0	107.5	76	26	2.8	5.4	0.0	0.6
M.B Din	35.7	37.5	176.8	70	29	1.3	2.6	0.7	0.6
Mangla	35.1	36.5	167.7	73	3	1.0	2.9	0.0	1.4
Mir Khani	32.8	34.5	120.2	43	0	0.0	1.6	0.0	3.7
Moinjodaro	36.3	37.5	***	67	0	0.5	0.3	1.0	3.3
Multan	36.7	37.2	187.8	60	0	0.0	1.4	2.6	10.6

Murree	22.2	24.4	93.2	81	29	1.8	5.6	1.0	0.3
Muzaffarabad	34.3	36.6	172.7	66	10	2.2	1.3	0.0	0.3
Nokkundi	41.3	42.5	158.3	12	0	0.4	0.0	3.2	3.1
Noorpurthal	40.1	41.5	186.5	65	0	0.0	2.6	0.0	0.9
Okara	36.9	38.5	183.1	65	0	0.0	2.3	0.7	1.4
Padidan	36.9	37.5	184.3	63	0.1	1.6	1.4	1.2	2.0
Panjgur	38.9	39.0	***	34	0	0.0	0.7	4.3	7.4
Parachinar	24.7	25.5	114.4	48	0	3.2	4.1	2.7	3.3
Pasni	34.1	36.0	140.3	77	0	4.4	1.1	2.0	8.9
Pattan	36.0	38.5	***	47	0	1.8	1.7	0.0	0.9
Peshawar	35.5	37.0	170.8	66	0.1	1.3	1.3	0.3	0.7
Quetta	31.3	32.6	111.4	31	0	0.0	1.0	2.8	3.6
R.Y. Khan	38.1	38.6	187.6	64	0	2.0	1.6	0.7	4.6
Rawalakot	27.7	29.0	173.2	82	35	1.3	1.9	0.0	1.1
Rohri	36.6	37.5	189.5	61	0	0.7	1.3	2.0	4.3
Rawalpindi	34.0	35.0	164.1	68	61.2	0.4	1.0	0.5	0.5
Sahiwal	36.7	38.0	176.7	65	0	0.3	1.3	0.7	0.9
Saidu Sharif	31.6	33.0	139.3	66	4	2.3	2.0	0.0	0.6
Sialkot	33.6	35.8	166.9	73	13	2.7	2.4	0.3	0.6
Sibbi	39.3	40.5	***	61	0	0.0	0.0	0.0	0.0
Skardu	29.5	32.0	99.0	43	3	1.2	3.4	0.0	2.1
Tandojam	36.6	38.0	181.8	65	25	2.0	2.6	0.3	0.6
U.Muhammad	36.1	37.0	181.3	67	0	0.3	1.1	0.1	0.1
Zhob	33.6	34.0	160.7	37	0	0.3	2.3	4.2	6.1

\*\*\* Shows that data was not available.