

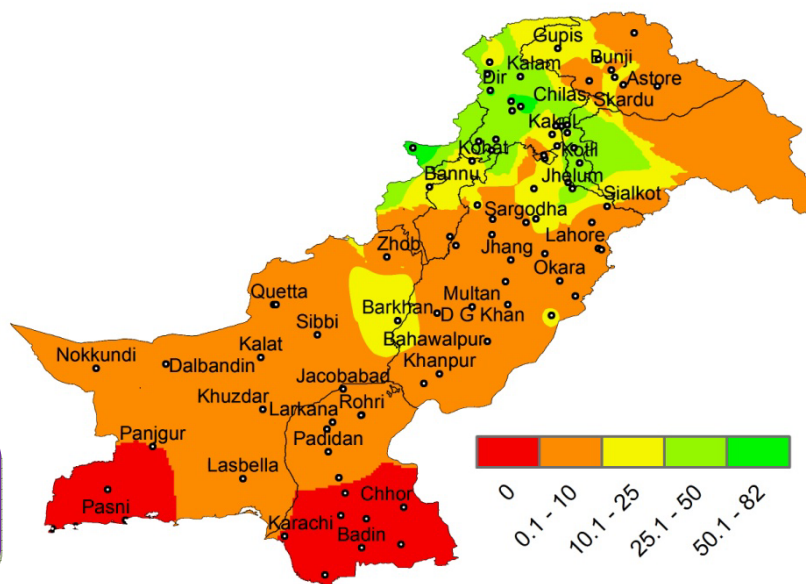
Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall distribution (mm) during the
Previous week (from 4th to 10th November, 2013)**



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Highlights of Past Weather (from 4th to 10th November, 2013)

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

- Light to moderate rainfall reported at number of places in Punjab.
- Light to moderate rainfall reported at number of places in Khyber Pakhtunkhwa.
- Light to moderate rainfall reported at number of places in Gilgit Baltistan & Kashmir regions.
- Light to moderate rainfall reported at number of places in Balochistan.
- Light rainfall reported at few places in Sindh.

Past Weather of Provinces (from 4th to 10th November, 2013):**Punjab:**

Light to moderate rainfall reported at number of places in Punjab province during the week. Weekly maximum and minimum temperatures recorded as 24.0°C & 12.0°C respectively. For the present season average 90.7 growing degree days accumulated by the end of last week. Average relative humidity recorded as 72% and wind speed in the morning/evening recorded as 1.6/1.5 Knots. During the previous week highest amount of rainfall reported at Jhelum as 33.1mm and lowest minimum temperature recorded as 2.4°C at Murree.

Sindh:

Light rainfall reported at few places in Sindh province during the week. Weekly maximum and minimum temperatures recorded as 30.2°C & 16.6°C respectively. For the present season average 130.8 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 1.5/2.9 Knots. During the previous week highest amount of rainfall reported at Jacobabad as 0.2mm and lowest minimum temperature recorded as 12.9°C at Mithi.

Khyber Pakhtunkhwa:

Light to moderate rainfall reported at number of places in Khyber Pakhtunkhwa province during the week. Weekly maximum and minimum temperatures recorded as 16.9°C & 6.4°C respectively. For the present season average 41.4 growing degree days accumulated by the end of last week. Average relative humidity recorded as 47% and wind speed in the morning/evening

recorded as 1.6/4.0 Knots. During the previous week highest amount of rainfall reported at Parachinar as 82.1mm and lowest minimum temperature recorded as -2.0°C at Kalam.

Balochistan:

Light to moderate rainfall reported at number of places in Balochistan province during the week. Weekly maximum and minimum temperatures recorded as 25.5°C & 10.5°C respectively. For the present season average 98.8 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 0.7/1.2 Knots. During the previous week highest amount of rainfall reported at Barkhan as 22.0mm and lowest minimum temperature recorded as -4.5°C at Kalat.

Gilgit Baltistan and Azad Jammu & Kashmir:

Light to moderate rainfall reported at number of places in Gilgit Baltistan & Kashmir regions during the week. Weekly maximum and minimum temperatures recorded as 16.6°C & 4.7°C respectively. For the present season average 39.8 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 0.5/1.2 Knots. During the previous week highest amount of rainfall reported at Rawalakot as 46.1mm and lowest minimum temperature recorded as -5.1°C at Skardu.

**Past Weather for Major Agricultural-
Plains (from 4th to 10th November, 2013)**

Rawalpindi (Potohar region)

Rainfall reported as 3.2mm during the week; however cloudiness in the morning/evening recorded as 3.3/3.8 Oktas while, average relative humidity observed as 79%. Mean night time temperature recorded as 9.5°C & for the present season 75.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.8/1.1 Knots.

Faisalabad (Central Punjab)

Rainfall reported as 1.6mm during the week; however cloudiness in the morning/evening recorded as 3.6/4.3 Oktas while, average relative humidity observed as 62%. Mean night time temperature recorded as 12.8°C & for the present season 98.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.8/0.6 Knots.

Tandojam (Lower Singh)

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 2.1/2.8 Oktas while, average relative humidity observed as 60%. Mean night time temperature recorded as 15.9°C & for the present season 126.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/1.7 Knots.

Quetta (Northern Balochistan)

Rainfall reported as 2.4mm during the week; however cloudiness in the morning/evening recorded as 0.4/0.0 Oktas while, average relative humidity observed as 49%. Mean night time temperature recorded as 2.9°C & for the present season 33.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.7/2.3 Knots.

Usta Muhammad (Eastern Balochistan)

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 1.4/1.7 Oktas while, average relative humidity observed as 72%. Mean night time temperature recorded as 16.3°C & for the present season 107.5 growing degree days accumulated by the end of last week.

**Past Weather for Sub Regional Agricultural-
Plains (from 4th to 10th November, 2013)**

Rohri

Rainfall reported as 0.1mm during the week; however cloudiness in the morning/evening recorded as 1.7/1.3 Oktas while, average relative humidity observed as 58%. Mean night time temperature recorded as 17.1°C by the end of last week. Wind speed recorded in the morning/evening as 1.4/2.3 Knots.

Multan

Rainfall reported as 1.1mm during the week; however cloudiness in the morning/evening recorded as 3.3/2.4 Oktas while, average relative humidity observed as 67%. Mean night time temperature recorded as 13.9°C by the end of last week. Wind speed recorded in the morning/evening as 2.0/3.1 Knots.

Lahore

Rainfall reported as 5.0mm during the week; however cloudiness in the morning/evening recorded as 3.1/3.7 Oktas while, average relative humidity observed as 69%. Mean night time temperature recorded as 12.5°C & for the present season 96.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/2.6 Knots.

Zhob

Rainfall reported as 9.0mm during the week; however cloudiness in the morning/evening recorded as 2.7/4.3 Oktas while, average relative humidity observed as 56%. Mean night time temperature recorded as 6.8°C & for the present season 52.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 4.3/5.6 Knots.

D.I. Khan

Rainfall reported as 8.0mm during the week; however cloudiness in the morning/evening recorded as 2.3/3.0 Oktas while, average relative humidity observed as 72%. Mean night time temperature recorded as 11.6°C & for the present season 90.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/0.6 Knots.

Peshawar

Rainfall reported as 36.0mm during the week; however cloudiness in the morning/evening recorded as 2.8/6.3 Oktas while, average relative humidity observed as 87%. Mean night time temperature recorded as 12.0°C & for the present season 77.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/1.3 Knots.

Murree

Reported as 14.0mm during the week; however cloudiness in the morning/evening recorded as 4.0/5.3 Oktas while, average relative humidity observed as 70%. Mean night time temperature recorded as 5.0°C & for the present season 25.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.7/1.4 Knots.

Kalam

Rainfall reported as 28.0mm during the week; however cloudiness in the morning/evening recorded as 4.3/3.6 Oktas while, average relative humidity observed as 72%. Mean night time temperature recorded as -0.4°C by the end of last week.

Gilgit

Rainfall reported as 14.1mm during the week; however cloudiness in the morning/evening recorded as 5.6/6.9 Oktas while, average relative humidity observed as 72%. Mean night time temperature recorded as 3.0°C & for the present season 35.5 growing degree days accumulated by the end of last week.

Skardu

Rainfall reported as 1.0mm during the week; however cloudiness in the morning/evening recorded as 5.6/5.0 Oktas while, average relative humidity observed as 57%. Mean night time temperature recorded as -0.5°C & for the present season 12.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/1.4 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 *Full-Maturity* 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 *First Picking* stage.

Lower Sindh (Tandojam)

There is presently no crop in the fields as land is preparing for new crop.

Northern Balochistan (Quetta)

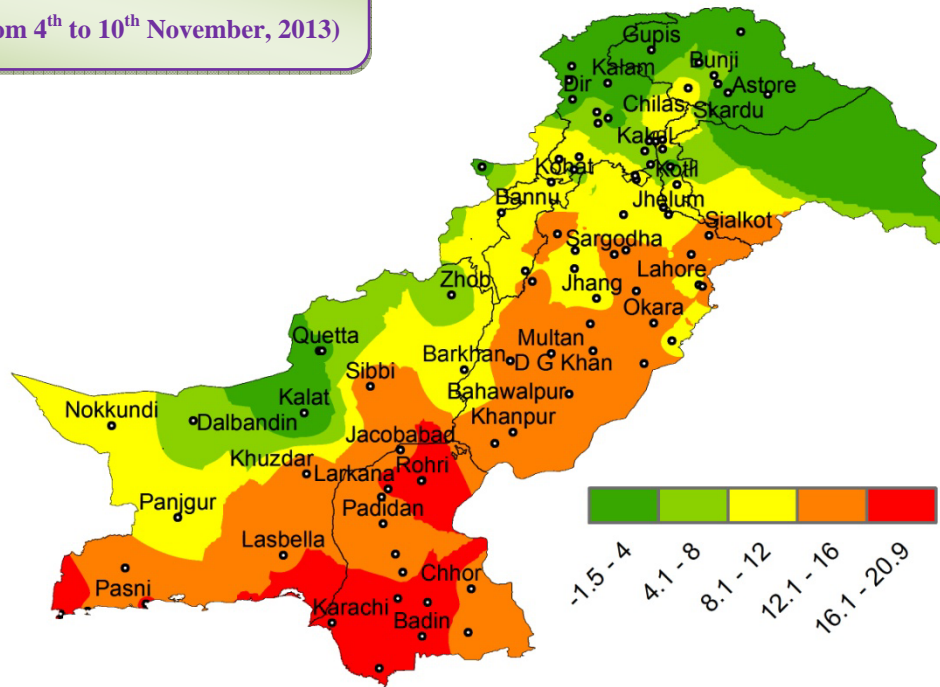
There is presently no crop in the fields.

Eastern Balochistan (Usta Muhammad)

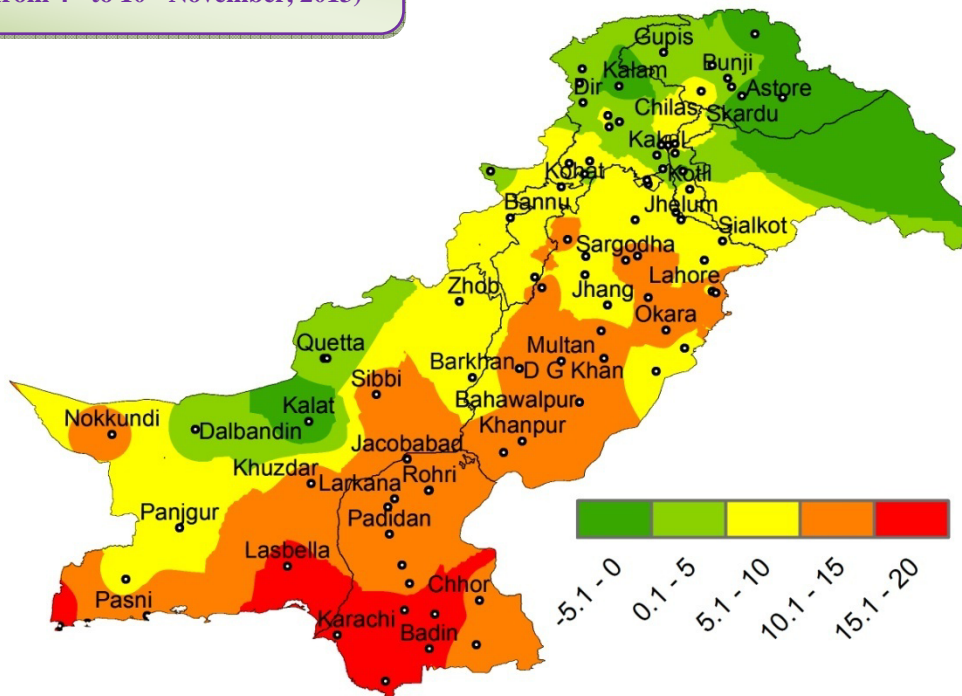
There is only one crop (irrigated conditions) grown in the fields as detailed below.

Rice: Good condition at *Harvesting* stage.

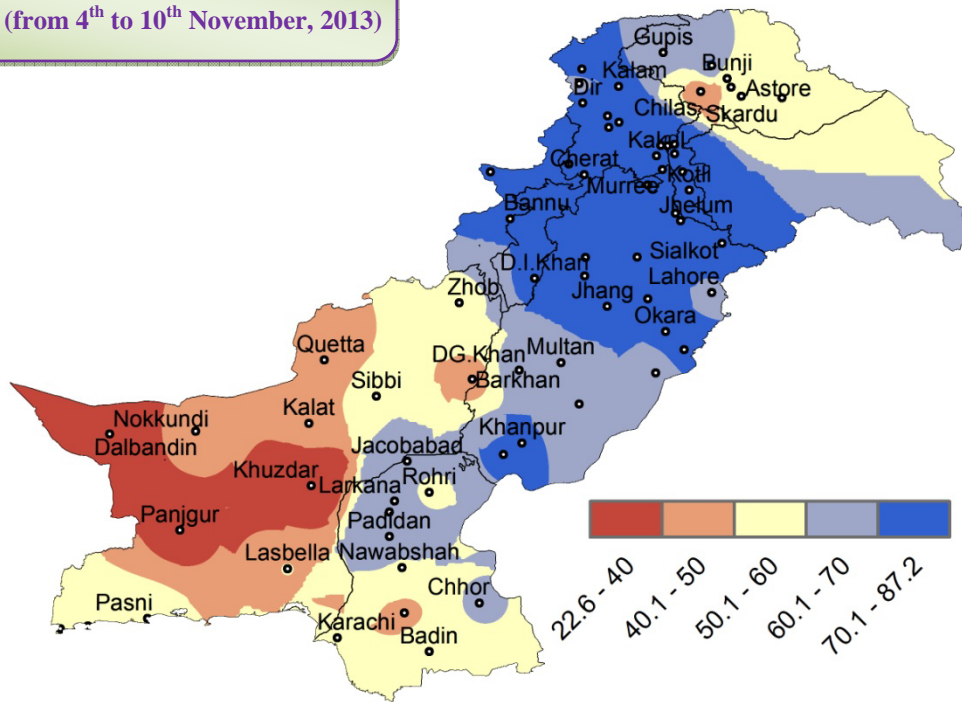
Mean minimum temperature (°C) during the Previous week (from 4th to 10th November, 2013)



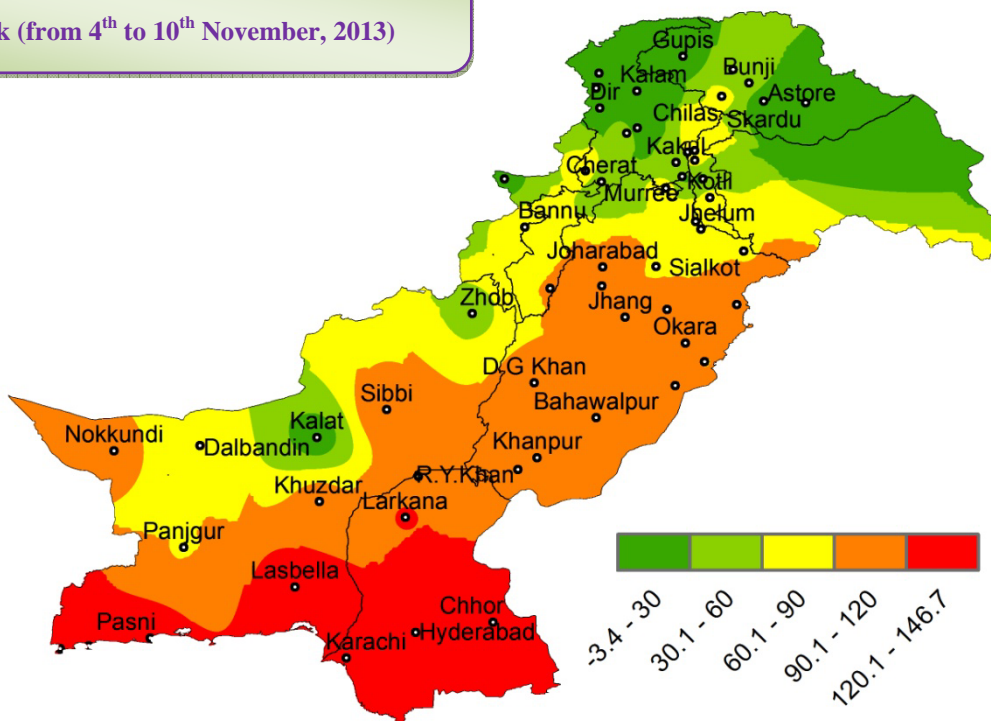
Lowest minimum temperature (°C) during the Previous week (from 4th to 10th November, 2013)



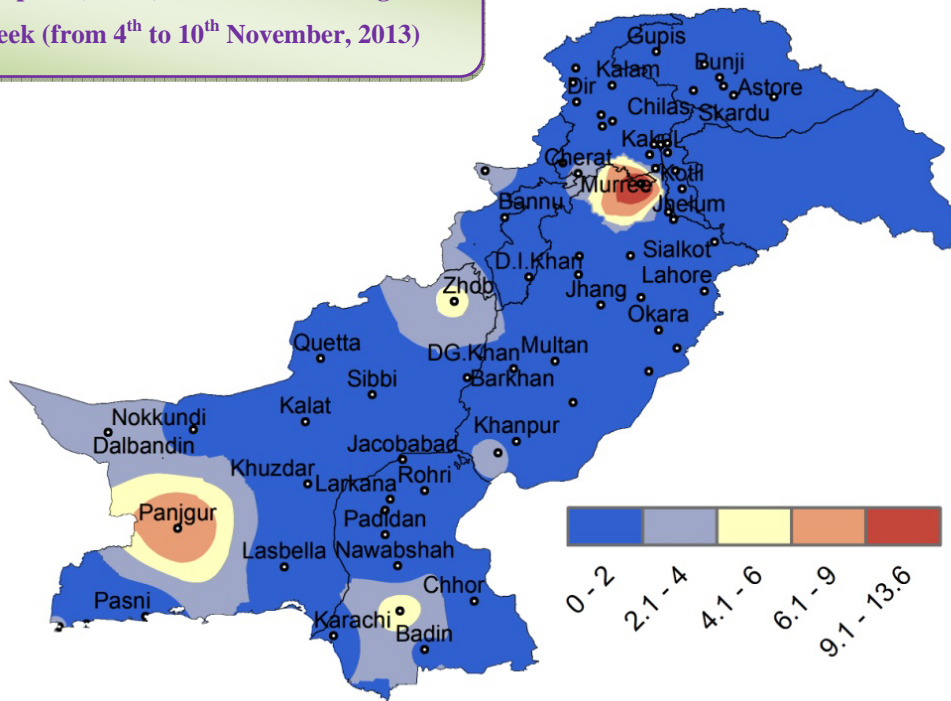
Mean relative humidity (%) during the Previous week (from 4th to 10th November, 2013)



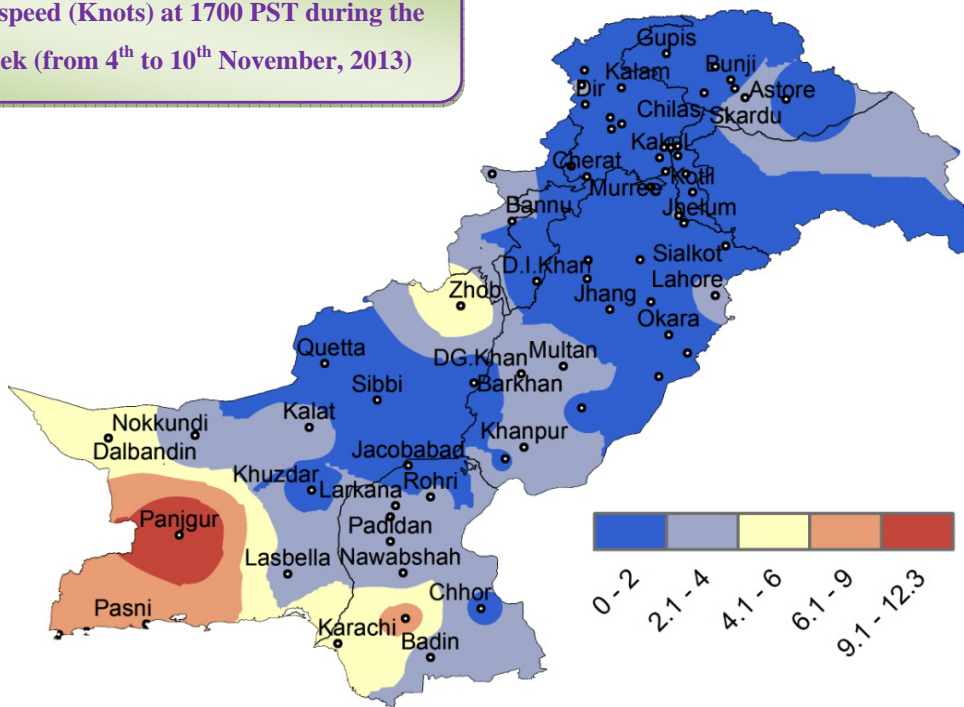
Total growing degree days accumulated during the Previous week (from 4th to 10th November, 2013)



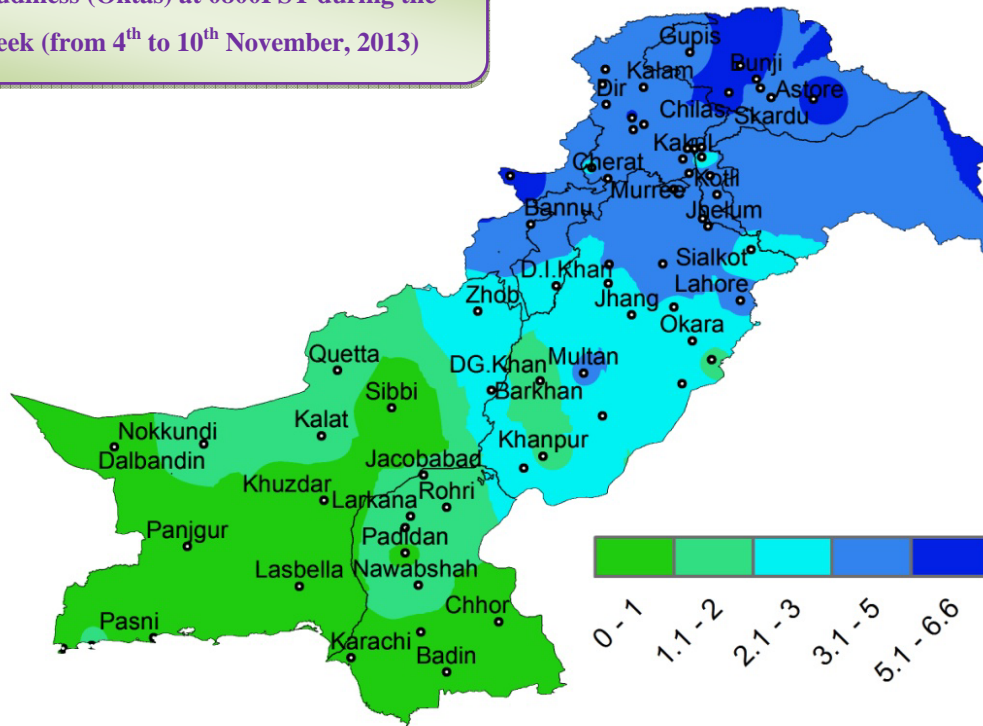
Mean wind speed (Knots) at 0800 PST during the Previous week (from 4th to 10th November, 2013)



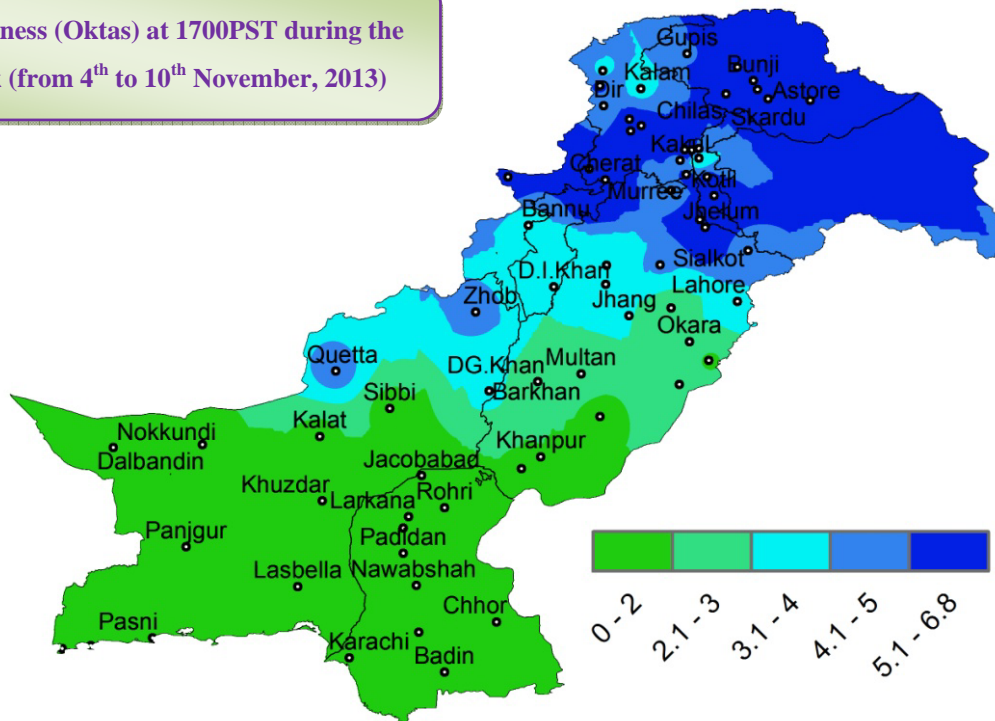
Mean wind speed (Knots) at 1700 PST during the Previous week (from 4th to 10th November, 2013)



Mean Cloudiness (Oktas) at 0800PST during the Previous week (from 4th to 10th November, 2013)



Mean Cloudiness (Oktas) at 1700PST during the Previous week (from 4th to 10th November, 2013)



Weekly Weather advisory for Farmers
(From 11th to 17th November, 2013)

Continental air would prevail over most parts of country during next 4 days. A shallow westerly trough is also affecting extreme northern areas of the country and likely persists during next 36 to 48 hours. Another fresh shallow westerly wave is likely to affect western parts of the country during the weekend.

Punjab including Islamabad:

Cold and Dry weather (very cold in upper parts during next 3 days) is expected in most parts of the province during the week. However, mostly cloudy weather conditions with chances of light rain is expected at isolated places in Islamabad, Rawalpindi division on Tuesday (night)/Wednesday.

Khyber Pakhtunkhwa:

Cold and Dry weather (very cold in upper parts) is expected in most parts of the province during the week. However, mostly cloudy weather conditions with chances of light rain/snowfall of over the hills is expected at isolated places in Malakand, Hazara divisions during Tuesday (evening/night)/Wednesday and again during the weekend.

Balochistan:

Cold and Dry weather is expected in most parts of the province during the week. However, mostly cloudy weather conditions with chances of rain-thunderstorm is expected at isolated places of southwestern parts of Balochistan during the weekend.

Sindh:

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

Gilgit-Baltistan: Cold and Dry weather is expected in most parts of Gilgit Baltistan during the week. However, mostly cloudy weather

conditions with chances of light rain/snowfall of over the hills is expected at isolated places in GB during Tuesday/Wednesday and again during the weekend.

Kashmir:

Very Cold and Dry weather is expected in most parts of Kashmir during the week. However, mostly cloudy weather conditions with chances of light rain/snowfall of over the hills is expected at isolated places in Kashmir during Tuesday/Wednesday.

Advises for Crops:

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

Wheat: Farmers of rainfed areas are advised to sow their Rabi crops during the period 15th October to 15th November. After this time the yield of wheat crop decreases gradually. Farmers of cotton crop areas are advised to prepare their fields for incoming Rabi crops and complete sowing process before 15th December. After this time the yield of wheat crop decreases gradually. Farmers of wheat growing areas are advised to sow their crops in time to get the optimum yield. The best suitable time for wheat cultivation is 1st November to 20th November.

Vegetables. Farmers are advised to cultivate winter vegetables in time so that present soil moisture may fully be utilized.

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 4th to 10th November, 2013)**

Stations	Minimum/Night Temperature (°C)		Growing Deg. Days	Relative Humidity (%)	Rainfall (mm)	Cloudiness (Oktas) 0800PST	Cloudiness (Oktas) 1700PST	Wind Speed (Knots) 0800PST	Wind Speed (Knots) 1700PST
	Mean	Lowest							
Astore	-1.6	-5.0	0.8	56	3.0	3.7	6.0	1.1	3.7
Badin	17.4	15.0	***	56	0.0	0.0	0.0	1.7	2.9
Bahawalnagar	13.9	8.7	102.0	67	11.0	2.1	2.9	0.3	1.4
Bahawalpur	14.1	11.5	106.8	64	0.1	2.0	1.7	0.6	1.7
Balakot	6.9	3.5	***	75	15.0	5.1	6.3	1.1	1.0
Bannu	10.4	8.0	79.6	71	11.1	4.4	3.4	0.3	2.0
Barkhan	8.3	7.0	***	45	22.0	2.3	3.1	1.0	0.6
Bunji	6.9	3.9	51.2	50	0.1	6.0	6.6	0.6	0.9
Cherat	6.5	4.0	33.5	74	38.0	4.3	5.6	3.1	2.0
Chhor	15.3	14.2	133.4	61	0.0	0.0	0.6	0.7	1.7
Chilas	9.9	8.0	68.6	44	0.1	5.7	5.9	0.3	1.1
Chitral	2.9	1.3	28.0	77	21.0	4.0	3.7	0.3	0.0
D.G Khan	14.1	12.2	106.3	67	0.2	1.1	2.6	1.7	2.9
D.I.Khan	11.6	9.6	90.1	72	8.0	2.3	3.0	0.3	0.6
Dalbandin	5.5	3.5	79.5	47	7.0	1.3	1.6	1.1	2.0
Dir	2.3	0.5	20.5	81	51.0	4.4	4.3	0.0	1.1
Drosh	2.1	1.0	29.2	62	32.1	4.9	5.3	0.0	2.9
Faisalabad	12.8	10.0	98.7	62	1.6	3.6	4.3	0.8	0.6
Garidopatta	7.0	3.0	64.8	72	20.0	1.4	2.6	0.0	0.0
Gawader	15.4	13.0	130.3	56	0.0	1.1	0.9	0.0	6.9
Gilgit	3.0	0.5	35.5	72	14.1	5.6	6.9	0.0	0.0
Gupis	1.4	1.0	11.3	63	12.0	4.6	4.9	0.9	1.1
Hyderabad	18.6	17.0	133.8	48	0.0	0.9	0.4	5.1	6.9
Islamabad	9.7	7.2	75.4	79	7.1	4.0	4.5	13.7	0.0
Jacobabad	15.7	15.0	118.8	64	0.2	1.0	1.3	0.0	0.0
Jhang	11.5	9.0	92.0	74	0.0	2.7	3.0	0.0	0.0
Jhelum	11.6	10.0	86.2	78	33.1	3.3	5.3	0.3	0.6

Jiwani	21.0	20.0	146.8	50	0.0	0.7	1.0	2.3	6.0
Joharabad	11.2	8.5	90.9	73	0.2	3.1	3.6	0.0	0.6
Kakul	5.2	3.5	41.2	74	11.0	3.7	4.3	0.0	0.3
Kalam	-0.4	-2.0	***	72	28.0	4.3	3.6	0.0	0.0
Kalat	-1.4	-4.5	14.8	46	2.0	1.6	1.7	0.0	2.6
Karachi	19.2	18.5	143.4	50	0.0	0.7	0.9	1.1	5.4
Khanpur	13.4	10.6	105.5	71	0.0	1.9	2.0	0.6	2.9
Khuzdar	14.5	12.5	101.8	23	6.0	0.0	1.1	0.0	1.7
Kotli	10.0	9.0	73.4	72	36.0	4.6	5.7	1.0	1.3
Lahore	12.5	11.0	96.7	69	5.0	3.1	3.7	0.9	2.6
Larkana	16.5	14.5	120.4	66	0.1	1.0	1.4	2.0	2.3
Lasbella	15.9	15.5	133.8	50	2.0	0.0	1.4	0.9	3.7
Lower Dir	7.5	6.0	***	76	52.0	5.1	5.3	0.0	2.0
Malam Jabba	1.4	-1.0	***	73	57.0	4.9	5.6	0.6	0.3
Mandibahudin	12.7	11.0	89.6	79	18.0	4.4	4.1	0.6	0.9
Mangla	9.8	8.3	80.0	74	22.0	4.1	5.7	1.1	2.3
Mir Khani	4.2	2.4	***	51	28.0	3.0	4.8	0.0	1.7
Moinjodaro	15.3	13.5	***	66	0.1	1.9	1.5	1.1	3.7
Multan	13.9	11.3	***	67	1.1	3.3	2.4	2.0	3.1
Murree	5.0	2.4	25.9	70	14.0	4.0	5.3	1.7	1.4
Muzaffarabad	8.3	7.0	62.5	68	28.0	3.7	5.4	0.7	1.3
Nokkundi	11.2	10.6	93.0	24	3.0	0.9	1.9	2.9	5.4
Noorpurthal	11.1	9.0	97.2	74	0.1	2.3	3.7	0.0	0.6
Okara	13.0	11.0	98.6	71	2.0	2.4	3.0	0.6	0.6
Padidan	15.7	14.1	***	68	0.1	0.7	0.3	0.6	2.0
Panjgur	9.9	8.5	89.3	34	0.0	0.4	0.7	8.0	12.3
Parachinar	3.3	2.4	14.9	84	82.1	6.6	6.0	3.6	3.0
Pasni	16.2	14.0	129.0	56	0.0	0.3	0.9	0.9	6.3
Pattan	9.9	7.5	67.0	73	42.0	4.3	4.6	0.0	0.6
Peshawar	12.0	10.0	77.8	87	36.0	2.8	6.3	0.3	1.3
Quetta	2.9	1.0	33.3	49	2.4	0.4	0.0	1.7	2.3
R.Y Khan	14.6	12.8	112.7	72	0.1	2.4	1.9	2.6	1.9

Rawalakot	2.4	-1.0	26.0	76	46.1	4.0	5.3	0.3	0.6
Rohri	17.1	15.5	***	58	0.1	1.7	1.3	1.4	2.3
Rawalpindi	9.5	6.5	75.4	79	3.2	3.3	3.8	0.8	1.1
Sahiwal	11.4	9.5	89.5	72	4.0	1.9	1.9	1.4	1.7
Saidu Sharif	7.5	5.5	51.7	77	31.0	4.3	5.4	0.3	0.0
Sialkot	12.1	9.5	89.8	75	10.0	2.7	4.7	0.0	0.6
Sibbi	14.6	14.0	115.8	59	0.1	0.0	1.7	0.0	0.0
Skardu	-0.5	-5.1	12.1	57	1.0	5.6	5.0	0.0	1.4
Tandojam	15.9	14.0	126.8	60	0.0	2.1	2.8	0.9	1.7
U.Muhammad	16.3	13.0	107.5	72	0.0	1.4	1.7	0.0	0.0
Zhob	6.8	5.0	52.8	56	9.0	2.7	4.3	4.3	5.6

*** Shows that data was not available.