

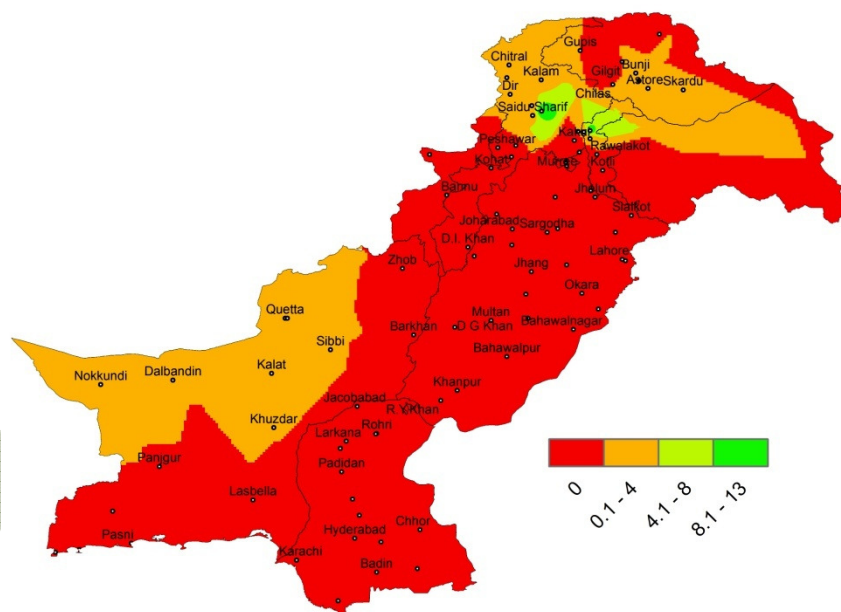
Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall distribution (mm) during the
Previous week (from 11th to 17th November, 2013)**



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Highlights of Past Weather (from 11th to 17th November, 2013)

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

- No rainfall is reported in Punjab.
- Light to moderate rainfall reported at few places in Khyber Pakhtunkhwa.
- Moderate rainfall is reported at a place in Gilgit Baltistan & Kashmir regions.
- Light rainfall reported at few places in Balochistan.
- No rainfall is reported in Sindh.

Past Weather of Provinces (from 11th to 17th November, 2013):

Punjab:

No rainfall is reported in Punjab province during the week. Weekly maximum and minimum temperatures recorded as 26.6°C & 9.5°C respectively. For the present season average 87.5 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, the lowest minimum temperature recorded as 1.0°C at Murree.

Sindh:

No rainfall is reported in Sindh province during the week. Weekly maximum and minimum temperatures recorded as 30.4°C & 14.1°C respectively. For the present season average 117.1 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 1.5/2.9 Knots. During the previous week, the lowest minimum temperature recorded as 8.3°C at Mithi.

Khyber Pakhtunkhwa:

Light to moderate rainfall is reported at few places in Khyber Pakhtunkhwa province during the week. Weekly maximum and minimum temperatures recorded as 19.7°C & 4.3°C respectively. For the present season average 43.5 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 Malam Jabba as 13.0mm and lowest minimum temperature recorded as -3.3°C at Kalam.

Balochistan:

Light rainfall is reported at few places in Balochistan province during the week. Weekly maximum and minimum temperatures recorded as 25.9°C & 9.5°C respectively. For the present season average 61.9 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 Kalat as 2.0mm and lowest minimum temperature recorded as -4°C at Kalat.

Gilgit Baltistan and Azad Jammu & Kashmir:

Moderate rainfall is reported at a place in Gilgit Baltistan & Kashmir regions during the week. Weekly maximum and minimum temperatures recorded as 17.4°C & 2.2°C respectively. For the present season average 44.1 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 Pattan as 12.0mm and lowest minimum temperature recorded as -8.7°C at Skardu.

**Past Weather for Major Agricultural-
Plains (from 11th to 17th November, 2013)**

Rawalpindi (Potohar region)

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.4/1.2 Oktas while, average relative humidity observed as 68%. Mean night time temperature recorded as 5.5°C & for the present season 68.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.4/0.8 Knots.

Faisalabad (Central Punjab)

No rainfall reported during the week; however average relative humidity observed as 51%. Mean night time temperature recorded as 8.8°C & for the present season 93.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.2/0.2 Knots.

Tandojam (Lower Singh)

No rainfall reported during the week; however average relative humidity observed as 55%. Mean night time temperature recorded as 13.1°C & for the present season 118.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.5/0.5 Knots.

Quetta (Northern Balochistan)

Rainfall reported as 4.2mm during the week; however cloudiness in the morning/evening recorded as 1.4/2.3 Oktas while, average relative humidity observed as 44%. Mean night time temperature recorded as 3.4°C & for the present season 41.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/2.6 Knots.

Usta Muhammad (Eastern Balochistan)

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.3/0.6 Oktas while, average relative humidity observed as 64%. Mean night time temperature recorded as 13.3°C & for the present season 115.0 growing degree days accumulated by the end of last week.

**Past Weather for Sub Regional Agricultural-
Plains (from 11th to 17th November, 2013)**

Rohri

No rainfall reported 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 15.1°C & for the present season 119.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.4/2.3 Knots.

Multan

No rainfall reported 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 12.8°C & for the present season 105.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.0/3.1 Knots.

Lahore

No rainfall reported 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 9.9°C & for the present season 90.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/2.6 Knots.

Zhob

No rainfall reported 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 4.5°C by the end of last week. Wind speed recorded in the morning/evening as 4.3/5.6 Knots.

D.I. Khan

No rainfall reported 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 9.4°C & for the present season 93.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/0.6 Knots.

Peshawar

No rainfall reported 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 7.5°C & for the present season 70.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/1.3 Knots.

Murree

No rainfall reported 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 3.1°C & for the present season 28.4 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 2.0mm 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 -2.0°C & for the present season 3.7 growing degree days accumulated by the end of last week.

Gilgit

No rainfall reported 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 0.1°C & for the present season 30.3 growing degree days accumulated by the end of last week.

Skardu

No rainfall reported 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 -5.9°C 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): Crop has been *Harvested*.

Central Punjab (Faisalabad)

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

Cotton: Normal condition, *Second Picking* stage completed.

Lower Sindh (Tandojam)

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

Northern Balochistan (Quetta)

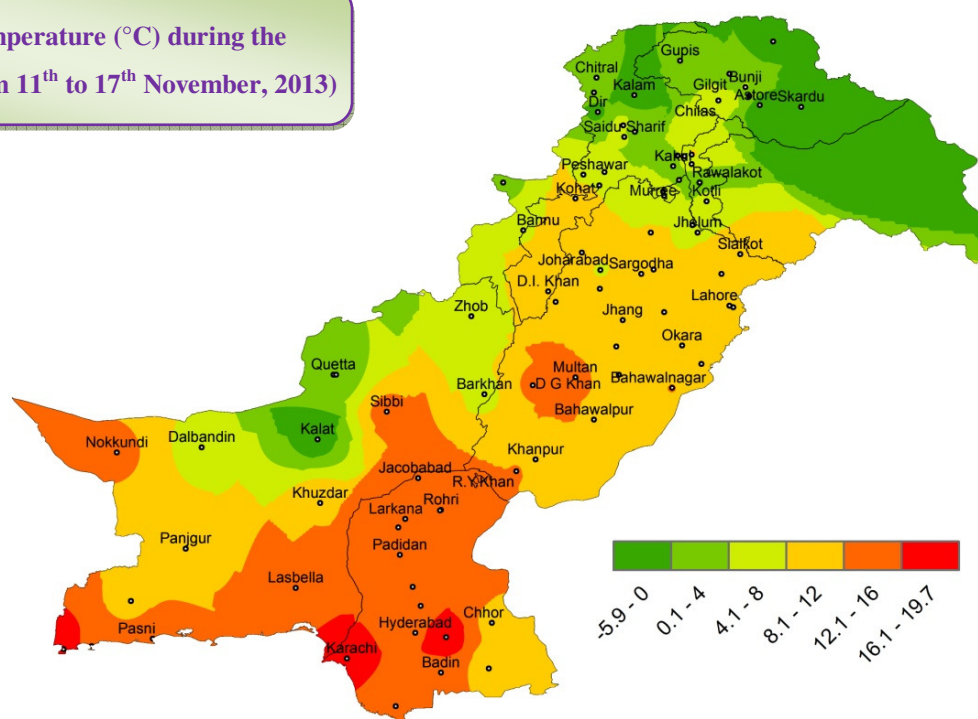
There is presently no crop in the fields.

Eastern Balochistan (Usta Muhammad)

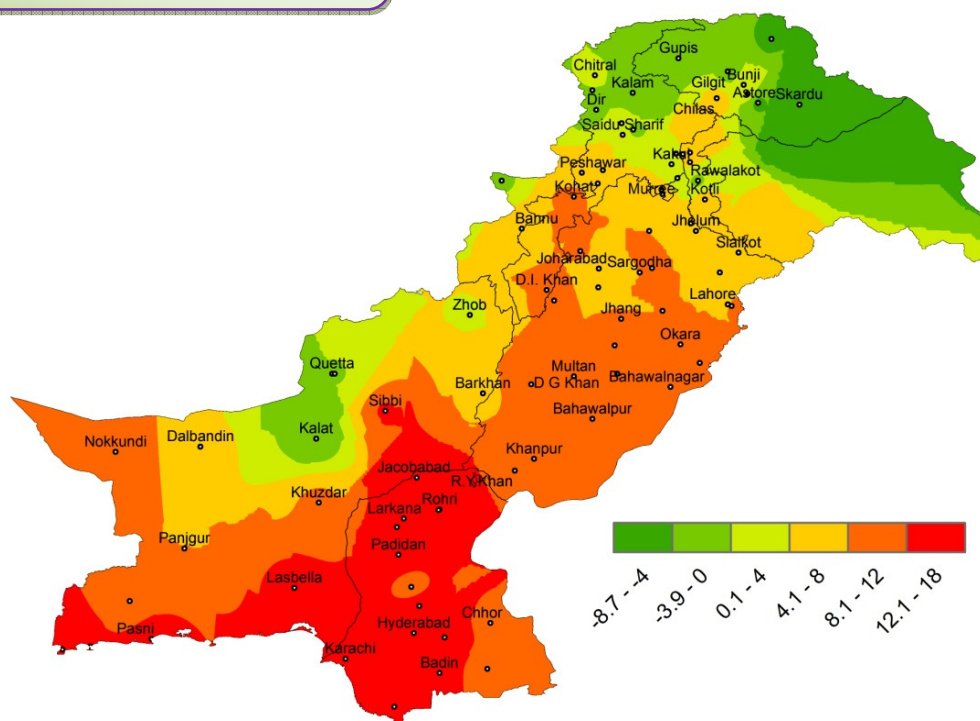
There is only one crop (irrigated conditions) grown in the fields as detailed below.

Rice: Good condition at *Harvesting* stage.

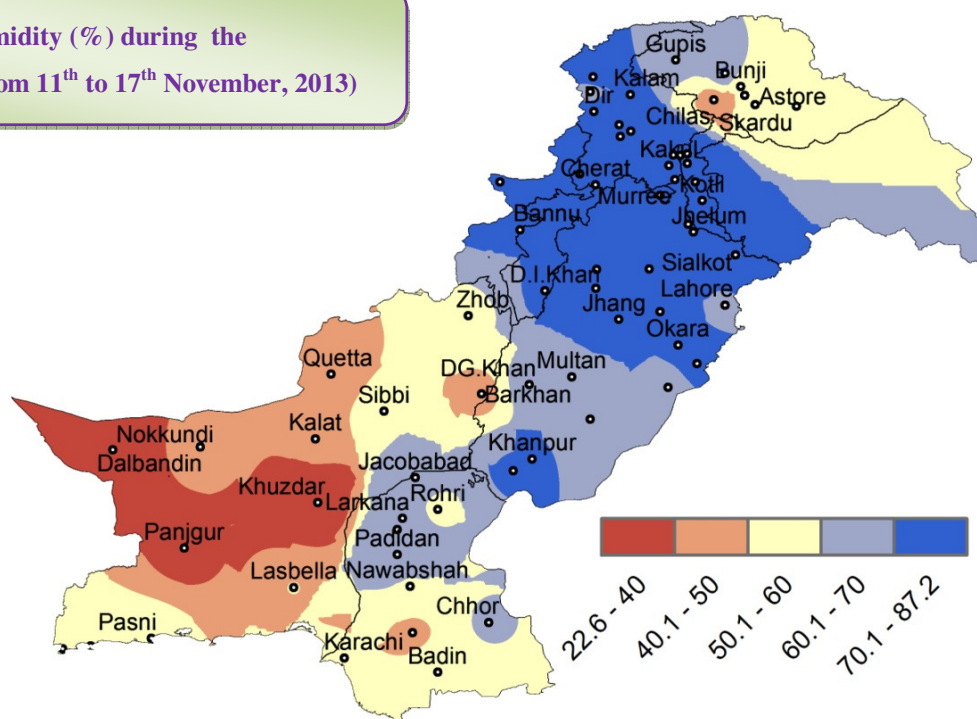
Mean minimum temperature ($^{\circ}\text{C}$) during the
Previous week (from 11th to 17th November, 2013)



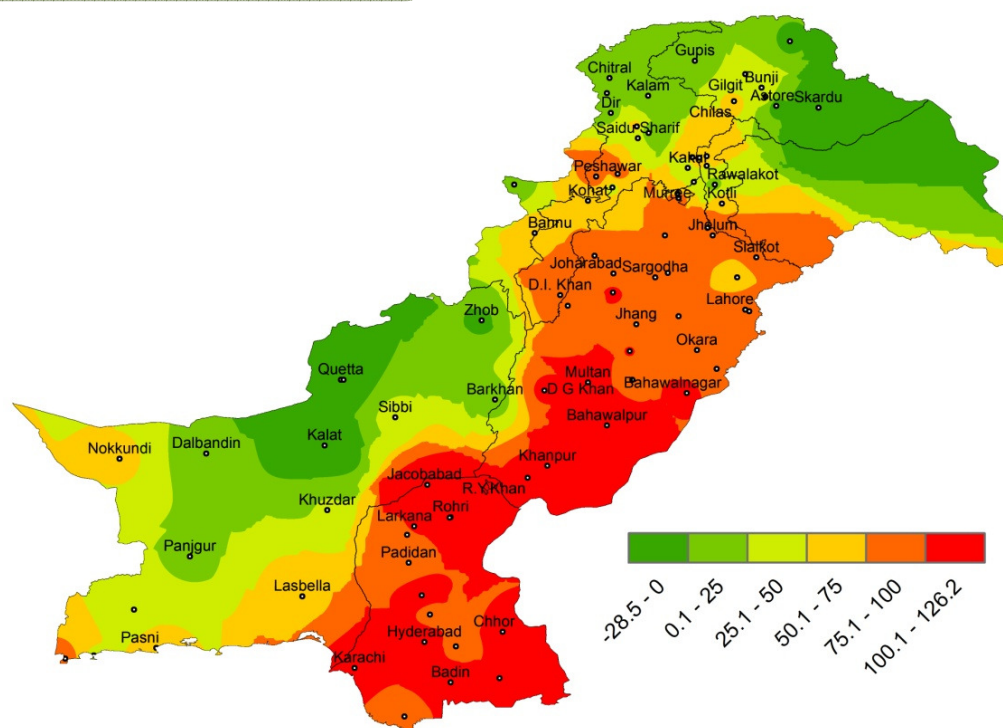
Lowest minimum temperature ($^{\circ}\text{C}$) during the
Previous week (from 11th to 17th November, 2013)



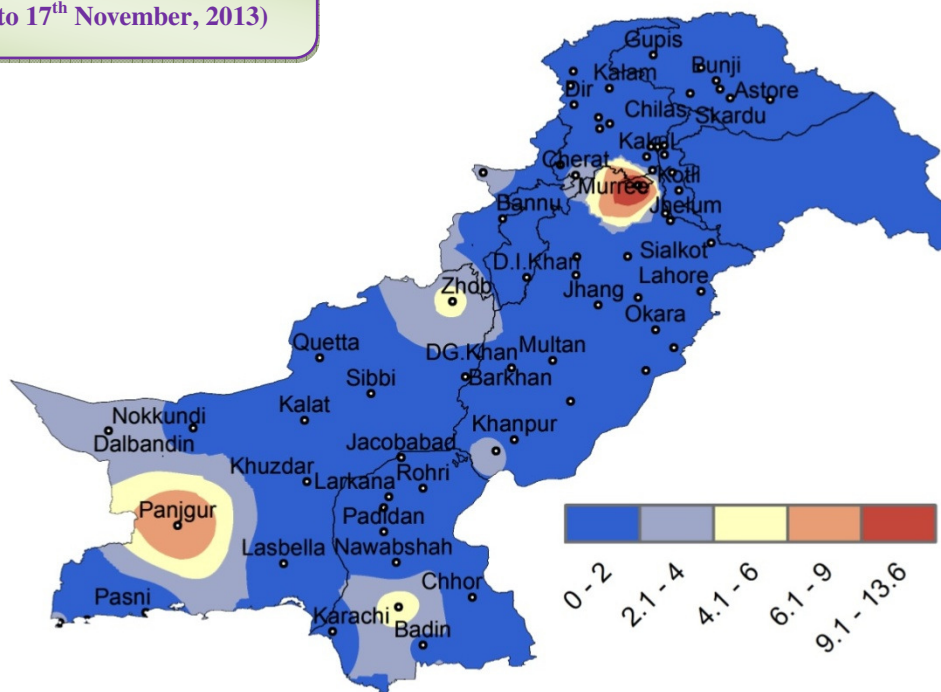
Mean relative humidity (%) during the
Previous week (from 11th to 17th November, 2013)



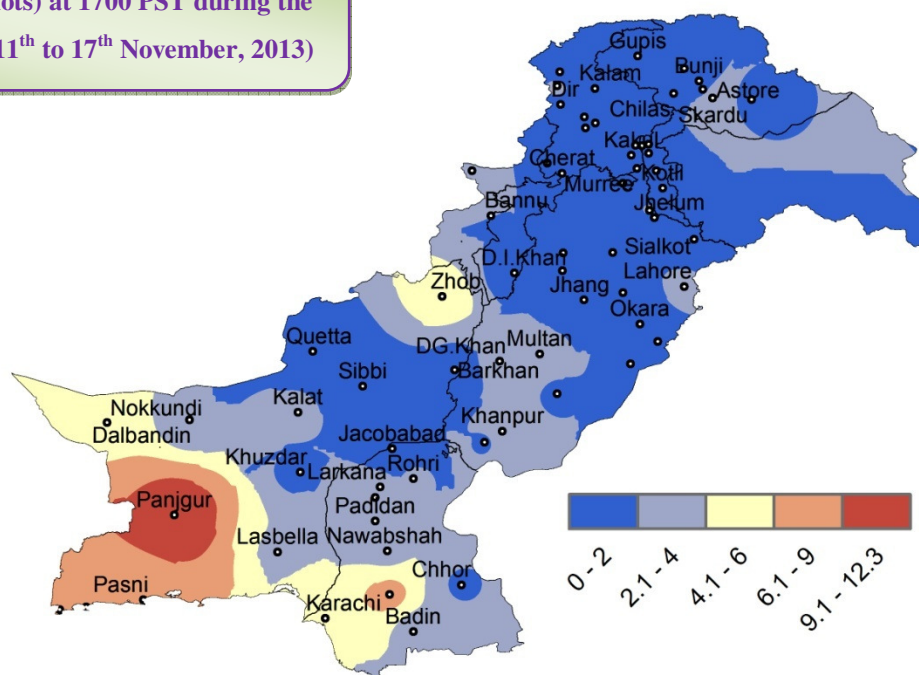
Total growing degree days accumulated during the
Previous week (from 11th to 17th November, 2013)



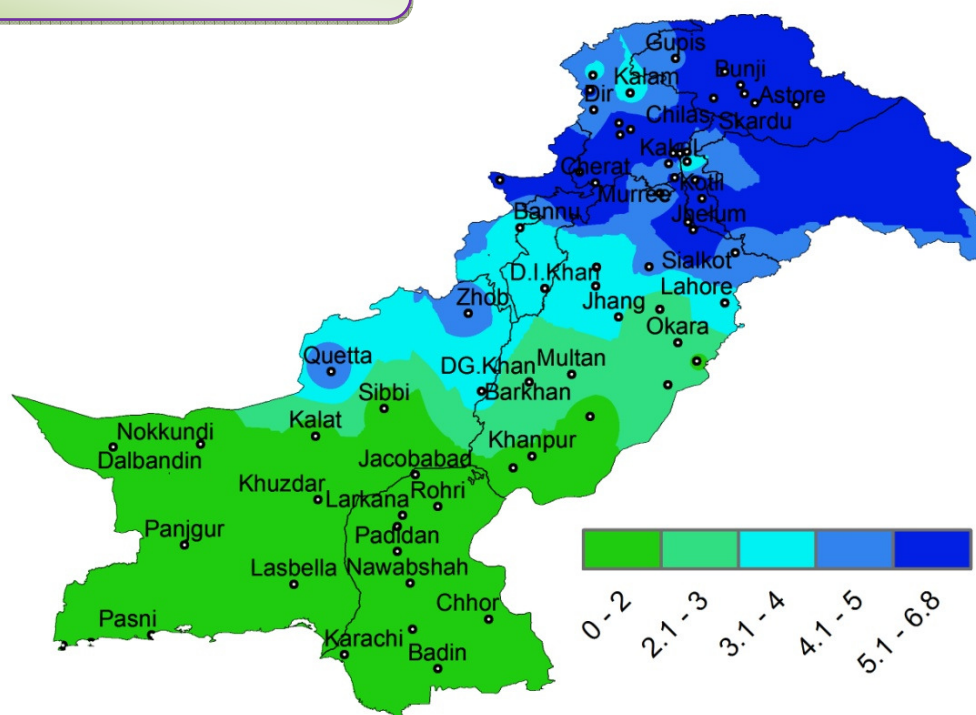
Mean wind speed (Knots) at 0800 PST during the
Previous week (from 11th to 17th November, 2013)



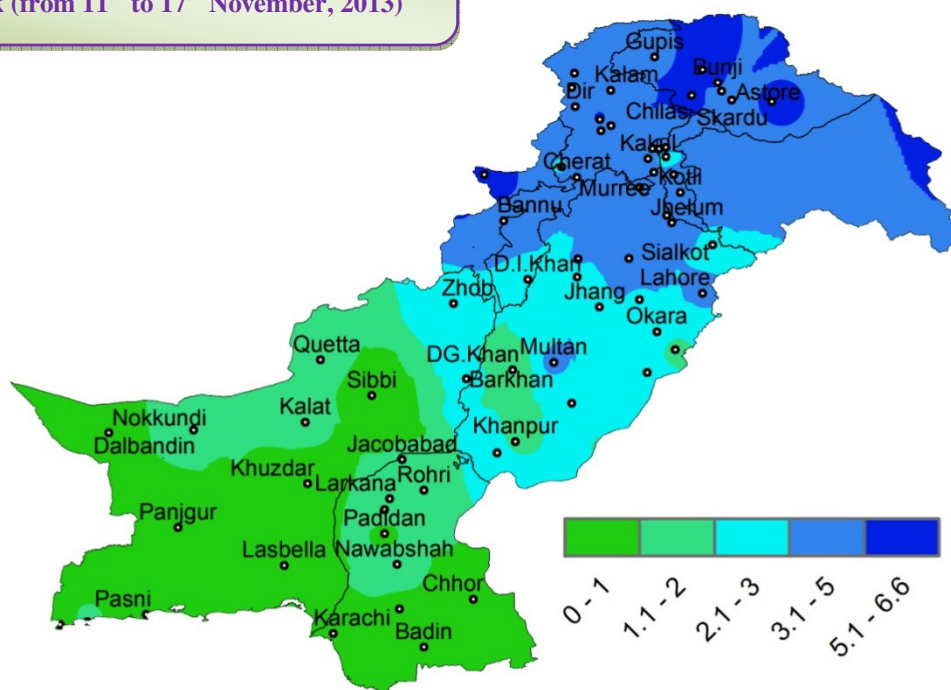
Mean wind speed (Knots) at 1700 PST during the
Previous week (from 11th to 17th November, 2013)



Mean Cloudiness (Oktas) at 1700PST during the
Previous week (from 11th to 17th November, 2013)



Mean Cloudiness (Oktas) at 0800PST during the
Previous week (from 11th to 17th November, 2013)



Weekly Weather advisory for Farmers
(From 18th to 24th November, 2013)

Continental air would prevail over most parts of country during the current week. However, a shallow westerly trough is likely to affect western parts of the country during the weekend.

Punjab including Islamabad:

Cold and dry weather is expected in most parts of the province during the current week.

Khyber Pakhtunkhwa:

Cold and dry weather (very cold in uppers parts) is expected in most parts of the province during the week. However, light rain/snowfall of over the hills is expected at isolated places in Malakand divisions during the weekend.

Balochistan:

Cold and dry weather is expected in most parts of the province during the week. However, light rain/snowfall of over the hills is expected at isolated places in northern parts of Balochistan during the weekend.

Sindh:

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

Gilgit-Baltistan:

Very cold and dry weather is expected in most parts of Gilgit-Baltistan during the week. However, light rain/snowfall of over the hills is expected at isolated places in Kashmir during the weekend.

Kashmir:

Very cold and dry weather is expected in most parts of Kashmir during the week. However, light rain/snowfall of over the hills is expected at few places in Kashmir during the weekend.

Advises for Crops:

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 11th to 17th 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	-4.2	-5.6	***	56	0.0	3.7	6.0	1.1	3.7
Badin	13.9	13.5	118.6	56	0.0	0.0	0.0	1.7	2.9
Bahawalnagar	12.1	11.0	102.6	67	0.0	2.1	2.9	0.3	1.4
Bahawalpur	11.8	11.1	106.3	64	0.0	2.0	1.7	0.6	1.7
Balakot	3.2	1.6	51.2	75	0.0	5.1	6.3	1.1	1.0
Bannu	7.8	7.0	62.7	71	0.0	4.4	3.4	0.3	2.0
Barkhan	7.1	6.5	10.5	45	0.0	2.3	3.1	1.0	0.6
Bunji	4.4	2.2	38.6	50	0.0	6.0	6.6	0.6	0.9
Cherat	8.1	7.0	42.4	74	0.0	4.3	5.6	3.1	2.0
Chhor	11.2	10.2	107.5	61	0.0	0.0	0.6	0.7	1.7
Chilas	6.9	5.5	53.8	44	0.0	5.7	5.9	0.3	1.1
Chitral	1.1	0.5	24.4	77	0.0	4.0	3.7	0.3	0.0
D.G.Khan	12.6	12.0	106.2	67	0.0	1.1	2.6	1.7	2.9
D.I.Khan	9.4	8.0	93.5	72	0.0	2.3	3.0	0.3	0.6
Dalbandin	6.5	5.0	7.5	47	0.0	1.3	1.6	1.1	2.0
Dir	-0.6	-2.0	20.0	81	0.0	4.4	4.3	0.0	1.1
Drosh	0.6	0.0	17.8	62	1.0	4.9	5.3	0.0	2.9
Faisalabad	8.8	7.8	93.0	51	0.0	0.0	0.0	0.2	0.2
Garidopatta	5.1	4.0	44.3	72	0.0	1.4	2.6	0.0	0.0
Gawader	14.4	13.0	47.0	56	0.0	1.1	0.9	0.0	6.9
Gilgit	0.1	-2.5	30.3	72	0.0	5.6	6.9	0.0	0.0
Gupis	0.3	-3.5	6.0	63	0.0	4.6	4.9	0.9	1.1
Hyderabad	15.5	13.5	124.8	48	0.0	0.9	0.4	5.1	6.9
Islamabad	5.4	4.5	71.1	79	0.0	4.0	4.5	13.7	0.0
Jacobabad	14.4	14.0	118.3	64	0.0	1.0	1.3	0.0	0.0
Jhang	9.0	8.0	93.4	74	0.0	2.7	3.0	0.0	0.0
Jhelum	8.0	3.8	88.5	78	0.0	3.3	5.3	0.3	0.6

Jiwani	19.7	17.0	90.2	50	0.0	0.7	1.0	2.3	6.0
Joharabad	7.7	6.0	88.6	73	0.0	3.1	3.6	0.0	0.6
Kakul	2.9	2.0	42.5	74	0.0	3.7	4.3	0.0	0.3
Kalam	-2.0	-3.3	3.7	72	2.0	4.3	3.6	0.0	0.0
Kalat	-2.1	-4.0	***	46	2.0	1.6	1.7	0.0	2.6
Karachi	17.1	16.0	107.8	50	0.0	0.7	0.9	1.1	5.4
Khanpur	11.0	10.0	105.3	71	0.0	1.9	2.0	0.6	2.9
Khuzdar	11.6	9.0	26.5	23	0.0	0.0	1.1	0.0	1.7
Kotli	7.1	6.2	69.4	72	0.0	4.6	5.7	1.0	1.3
Lahore	9.9	8.5	90.3	69	0.0	3.1	3.7	0.9	2.6
Larkana	15.6	14.0	113.0	66	0.0	1.0	1.4	2.0	2.3
Lasbella	14.8	13.0	68.5	50	0.0	0.0	1.4	0.9	3.7
Lower Dir	5.3	3.0	57.4	76	0.0	5.1	5.3	0.0	2.0
Malam Jabba	-0.6	-2.0	***	73	13.0	4.9	5.6	0.6	0.3
M.B Din	10.3	8.3	91.9	79	0.0	4.4	4.1	0.6	0.9
Mangla	7.7	6.1	85.6	74	0.0	4.1	5.7	1.1	2.3
Mir Khani	2.9	2.0	41.0	51	4.0	3.0	4.8	0.0	1.7
Moinjodaro	12.4	12.0	80.6	66	0.0	1.9	1.5	1.1	3.7
Multan	12.8	12.0	105.3	67	0.0	3.3	2.4	2.0	3.1
Murree	3.1	1.0	28.4	70	0.0	4.0	5.3	1.7	1.4
Muzaffarabad	6.3	5.5	63.6	68	0.0	3.7	5.4	0.7	1.3
Nokkundi	12.9	11.1	55.3	24	1.1	0.9	1.9	2.9	5.4
Noorpurthal	8.8	7.0	102.5	74	0.0	2.3	3.7	0.0	0.6
Okara	10.1	9.0	95.1	71	0.0	2.4	3.0	0.6	0.6
Padidan	14.1	13.5	85.3	68	0.0	0.7	0.3	0.6	2.0
Panjgur	9.0	8.0	20.0	34	0.0	0.4	0.7	8.0	12.3
Parachinar	2.3	-1.0	9.4	84	0.0	6.6	6.0	3.6	3.0
Pasni	16.0	15.0	66.0	56	0.0	0.3	0.9	0.9	6.3
Pattan	8.8	6.0	70.1	73	12.0	4.3	4.6	0.0	0.6
Peshawar	7.5	5.6	70.4	87	0.0	2.8	6.3	0.3	1.3
Quetta	3.4	1.0	41.5	44	4.2	1.4	2.3	0.6	2.6

R.Y.Khan	12.1	11.0	112.1	72	0.0	2.4	1.9	2.6	1.9
Rawalakot	-0.5	-1.0	18.5	76	0.0	4.0	5.3	0.3	0.6
Rohri	15.1	14.0	119.3	58	0.0	1.7	1.3	1.4	2.3
Rawalpindi	5.5	4.5	68.8	68	0.0	0.4	1.2	0.4	0.8
Sahiwal	9.2	8.5	90.6	72	0.0	1.9	1.9	1.4	1.7
Saidu Sharif	5.1	4.5	43.3	77	2.0	4.3	5.4	0.3	0.0
Sialkot	9.4	8.4	85.5	75	0.0	2.7	4.7	0.0	0.6
Sibbi	14.0	12.5	36.0	59	0.0	0.0	1.7	0.0	0.0
Skardu	-5.9	-8.7	***	57	0.0	5.6	5.0	0.0	1.4
Tandojam	13.1	12.5	118.0	55	0.0	0.0	0.0	0.5	0.5
U.Muhammad	13.3	12.5	115.0	64	0.0	0.3	0.6	0.0	0.0
Zhob	4.5	3.5	***	56	0.0	2.7	4.3	4.3	5.6

*** Shows that data was not available.