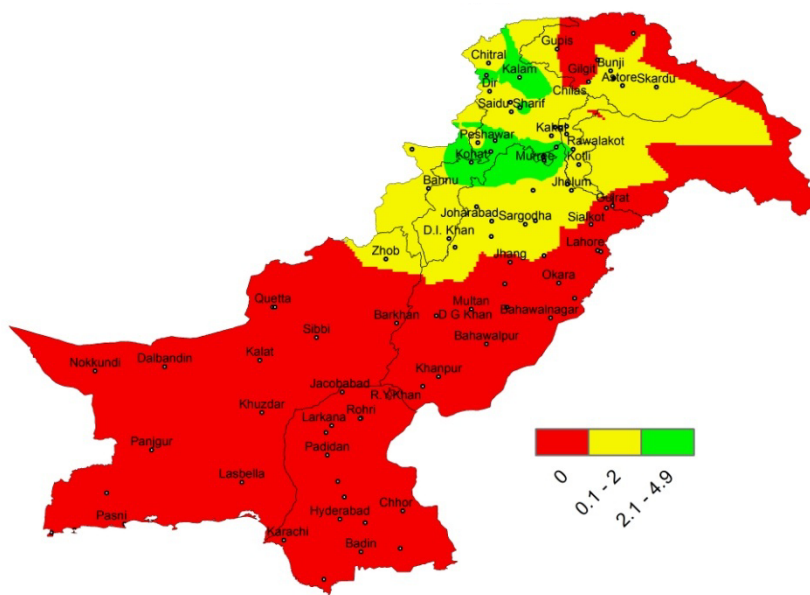


Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall Distribution (mm) during the
Previous Week (from 9th to 15th December, 2013)**

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

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

- Light rainfall reported at few places in Punjab.
- Light rainfall reported at isolated places in Gilgit Baltistan and Kashmir regions.
- Light rainfall reported at some place in Khyber Pakhtunkhwa.
- Mostly dry weather was reported in Sindh and Balochistan.

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

Past Weather of Provinces (from 9th to 15th**December, 2013)****Punjab**

Light rainfall reported at few places in Punjab during the week. Weekly maximum and minimum temperatures recorded 23.9°C & 8.3°C respectively. For the present season average 77.2 growing degree days accumulated by the end of last week. Average relative humidity recorded 69% and wind speed in the morning/evening recorded 0.7/1.2 Knots. During the previous week highest amount of rainfall reported at Murree about 4.0mm and lowest minimum temperature recorded 1.0°C at Murree.

Sindh

Dry weather was reported in Sindh during the week. Weekly maximum and minimum temperatures recorded 28.3°C & 12.8°C respectively. For the present season average 107.8 growing degree days accumulated by the end of last week. Average relative humidity recorded 68% and wind speed in the morning/evening recorded 0.9/2.2 Knots. The lowest minimum temperature recorded 8.0°C at Mithi.

Khyber Pakhtunkhwa

Light rainfall reported at some place in Khyber Pakhtunkhwa during the week. Weekly maximum and minimum temperatures recorded 17.6°C & 3.7°C respectively. For the present season average 44.0 growing degree days accumulated by the end of last week. Average relative humidity recorded 60% and wind speed in the morning/evening recorded 1.3/3.3 Knots. The highest amount of rainfall was reported at Cherat about 5.0mm and lowest minimum temperature recorded -5.7°C at Parachinar.

Balochistan

Dry weather was reported in Balochistan during the week. Weekly maximum and minimum temperatures recorded 25.1°C & 8.1°C respectively. For the present season average 86.8 growing degree days accumulated by the end of last week. Average relative humidity recorded 51% and wind speed in the morning/evening recorded 1.4/3.2 Knots. The lowest minimum temperature recorded -4.3°C at Kalat.

Gilgit Baltistan and Azad Jammu & Kashmir

Light rainfall reported at isolated places in Gilgit Baltistan and Kashmir regions during the week. Weekly maximum and minimum temperatures recorded 14.8°C & 0.7°C respectively. For the present season average 37.7 growing degree days accumulated by the end of last week. Average relative humidity recorded 60% and wind speed in the morning/evening recorded 0.8/2.0 Knots. During the previous week highest amount of rainfall reported at Rawalakot about 2.0mm and lowest minimum temperature recorded -9.2°C at Skardu.

**Past Weather for Major Agricultural Plains
(from 9th to 15th December, 2013)**

Rawalpindi (Potohar region)

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.7/0.2 Oktas while, average relative humidity observed 63%. Mean night time temperature recorded 5.4°C & for the present season 60.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/0.9 Knots.

Tandojam (Lower Singh)

Dry weather was reported during the week; while the average relative humidity observed as 67%. Mean night time temperature recorded 12.6°C & for the present season 113.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/1.1 Knots.

Quetta (Northern Balochistan)

Rainfall reported as 0.8mm during the week; however cloudiness in the morning/evening recorded 0.6/2.1 Oktas while, average relative humidity observed as 41%. Mean night time temperature recorded 1.8°C & for the present season 35.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.2/2.4 Knots.

Faisalabad (Central Punjab)

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.3/0.4 Oktas while, average relative humidity observed as 60%. Mean night time temperature recorded 8.1°C & for the present season 81.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/0.2 Knots.

Usta Muhammad (Eastern Balochistan)

Dry weather was reported during the week; while the average relative humidity observed as 81%.

Mean night time temperature recorded 11.3°C & for the present season 97.3 growing degree days accumulated by the end of last week. Wind remained calm during morning/evening.

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

Multan

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 3.4/1.1 Oktas while, average relative humidity observed as 74%. Mean night time temperature recorded 9.6°C & for the present season 83.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.6 Knots.

Lahore

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.6/0.0 Oktas while, average relative humidity observed as 69%. Mean night time temperature recorded 8.3°C & for the present season 76.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.1/2.0 Knots.

Rohri

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.0/0.3 Oktas while, average relative humidity observed as 61%. Mean night time temperature recorded 13.4°C & for the present season 107.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/0.6 Knots.

Zhob

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.9/0.7 Oktas while, average relative humidity observed as 43%. Mean night time temperature recorded 2.6°C & for the present season 50.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 5.0/5.7 Knots.

Murree

Rainfall reported as 4.0mm during the week; however cloudiness in the morning/evening recorded 2.4/1.1 Oktas while, average relative humidity observed as 47%. Mean night time temperature recorded 3.4°C & for the present season 25.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.4/2.3 Knots.

D.I. Khan

Rainfall reported as 0.3mm during the week; however cloudiness in the morning/evening recorded 1.1/0.7 Oktas while, average relative humidity observed as 68%. Mean night time temperature recorded 7.2°C & for the present season 76.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/1.1 Knots.

Peshawar

Rainfall reported as 1.1mm during the week; however cloudiness in the morning/evening recorded 2.9/1.7 Oktas while, average relative humidity observed as 66%. Mean night time temperature recorded 6.6°C & for the present season 75.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/1.1 Knots.

Kalam

Rainfall reported as 3.0mm during the week; however cloudiness in the morning/evening recorded 2.6/2.6 Oktas while, average relative humidity observed as 67%. Mean night time temperature recorded -0.6°C & for the present season 1.0 growing degree days accumulated by the end of last week. Wind remained calm during morning/evening.

Gilgit

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 3.9/4.0 Oktas while, average relative humidity observed as 70%. Mean night time temperature recorded -1.4°C & for the present season 9.7 growing degree days accumulated by the end of last week. Wind remained calm during morning/evening.

Skardu

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 4.3/3.6 Oktas while, average relative humidity observed as 68%. Mean night time temperature recorded -6.4°C by the end of last week. Wind remained calm during morning/evening.

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

Potohar Region (Rawalpindi)

There is presently no crop in the fields of RAMC Rawalpindi.

Central Punjab (Faisalabad)

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

Wheat: Very good condition at *Third Leaf* stage.

Lower Sindh (Tandojam)

There is presently one crop (irrigated condition) grown in the fields of RAMC Tandojam.

Wheat (PD-1): Good condition at *Third Leaf* stage.

Northern Balochistan (Quetta)

There is presently one crop (irrigated condition) grown in the fields of RAMC Quetta.

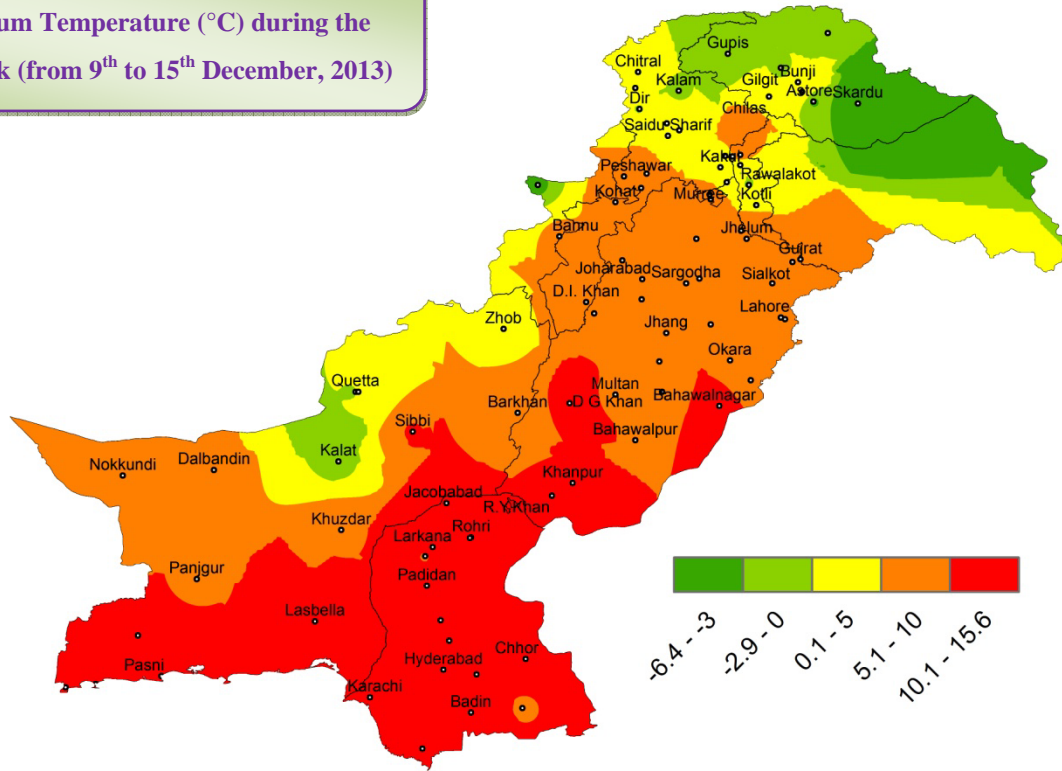
Wheat (Local white): Good condition at *Germination* stage.

Eastern Balochistan (Usta Muhammad)

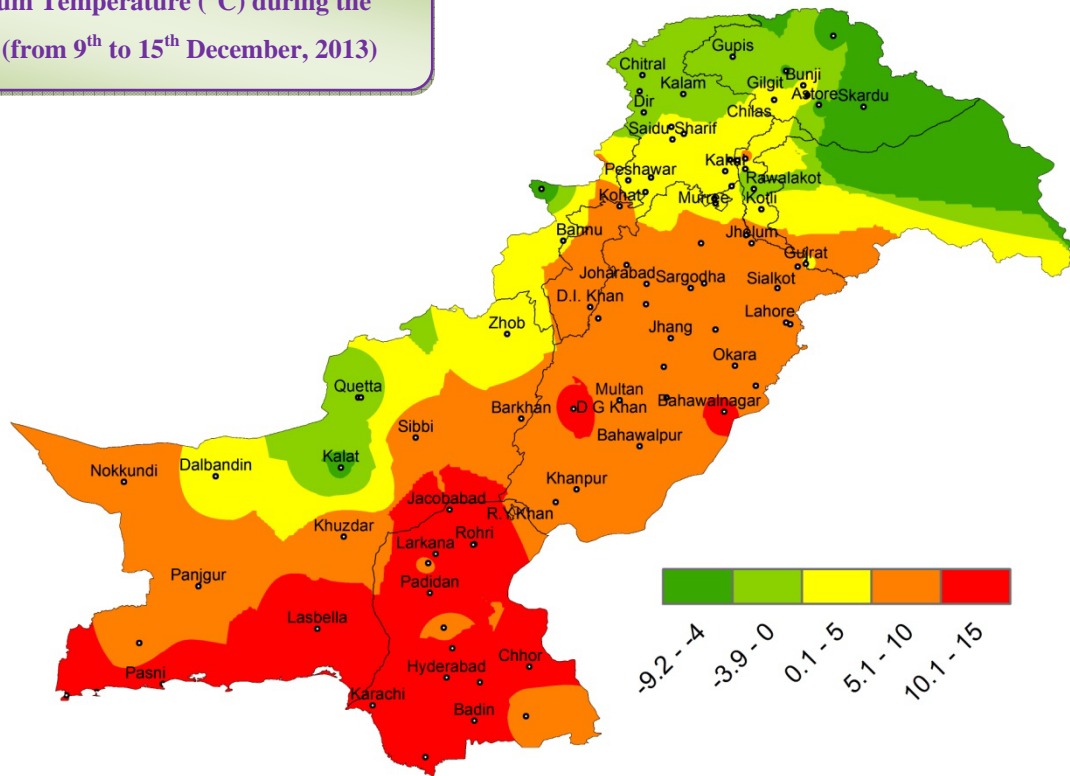
There is presently one crop (irrigated condition) grown in the fields of RAMC Usta Muhammad.

Wheat: Good condition at *Germination* stage.

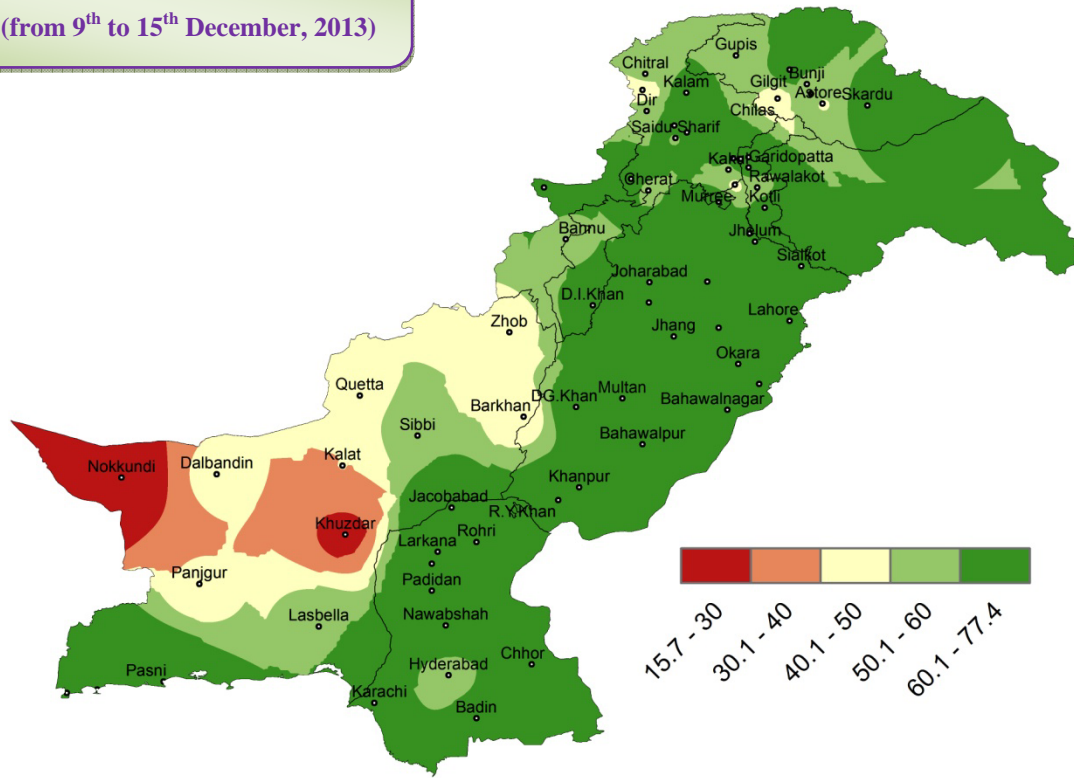
Mean Minimum Temperature (°C) during the Previous week (from 9th to 15th December, 2013)



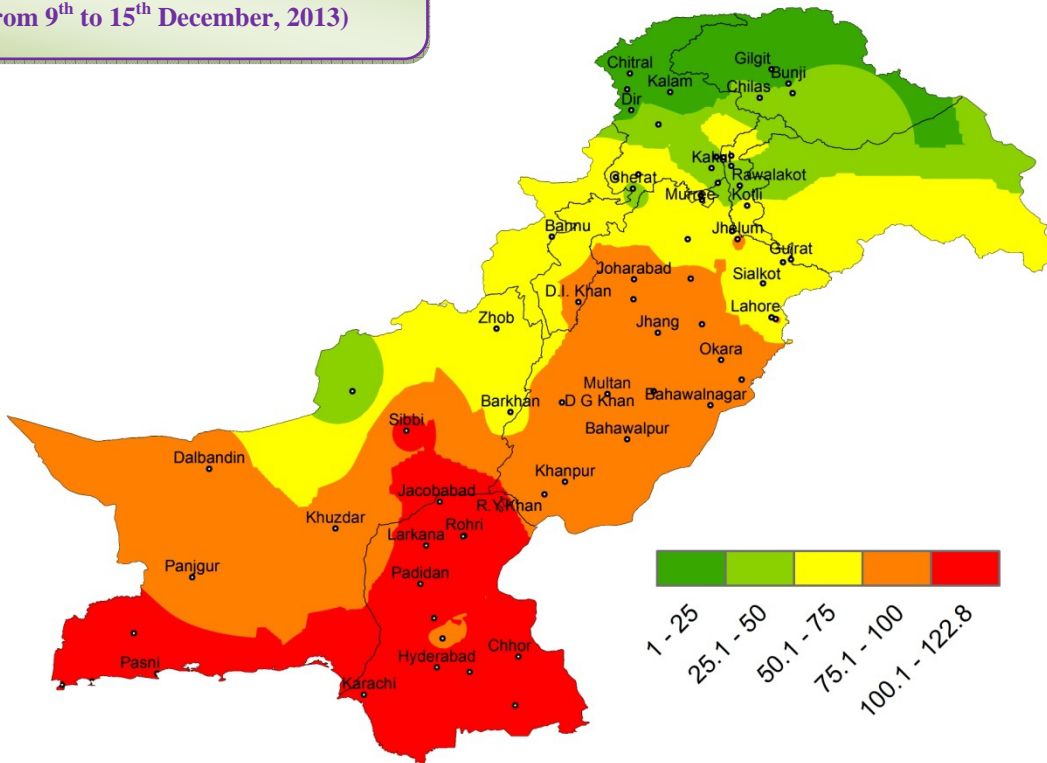
Lowest Minimum Temperature (°C) during the Previous week (from 9th to 15th December, 2013)



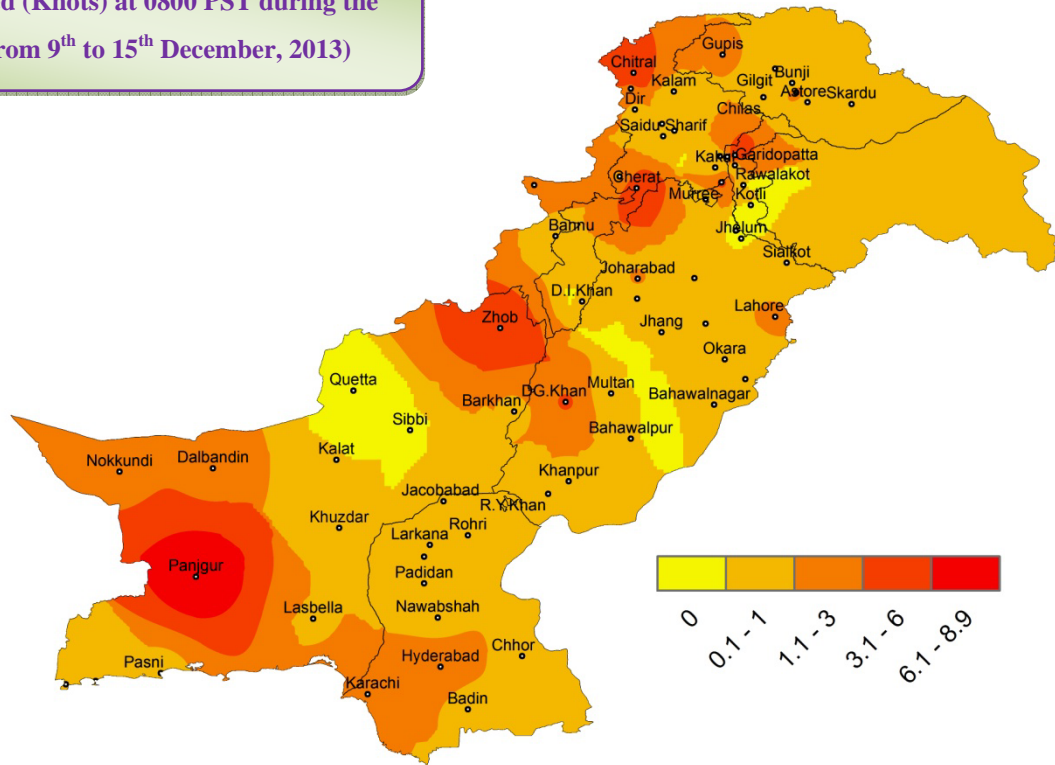
Mean Relative Humidity (%) during the Previous week (from 9th to 15th December, 2013)



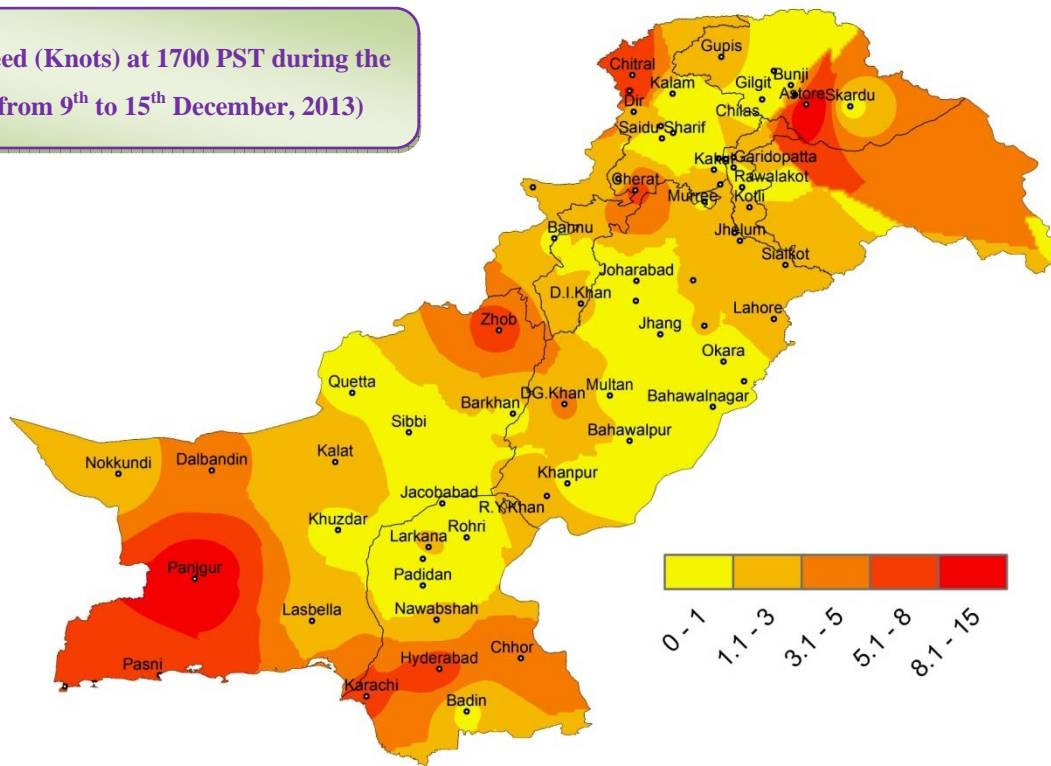
Total Growing Degree Days accumulated during the Previous week (from 9th to 15th December, 2013)



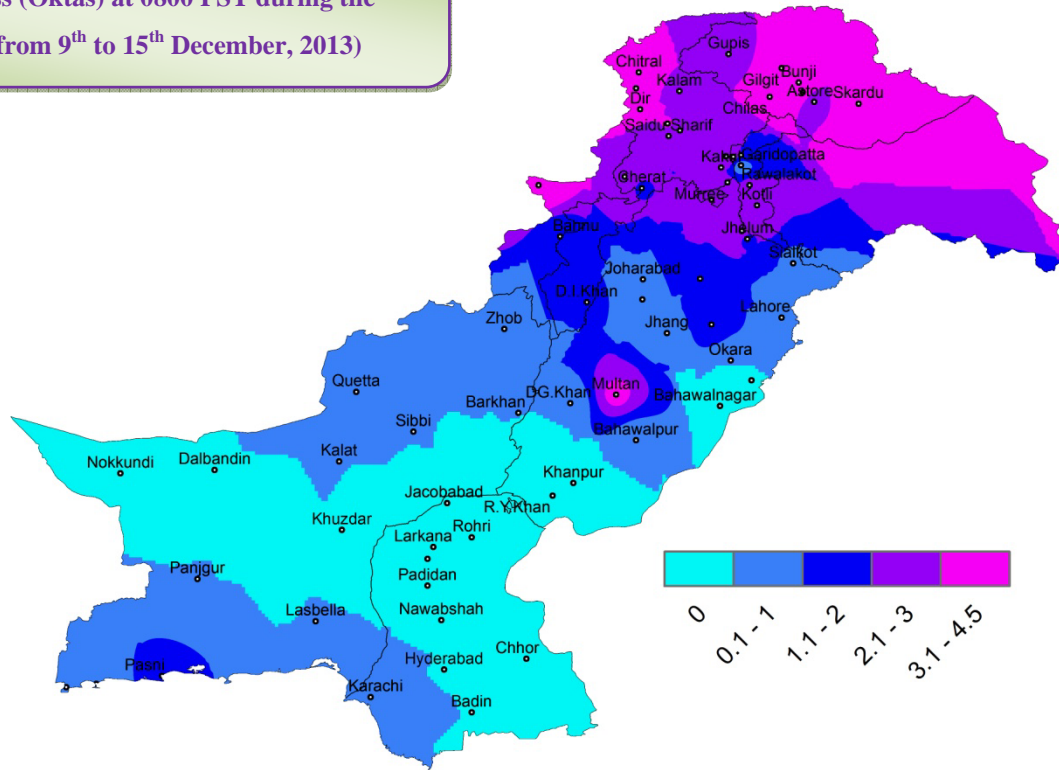
Mean Wind Speed (Knots) at 0800 PST during the Previous week (from 9th to 15th December, 2013)



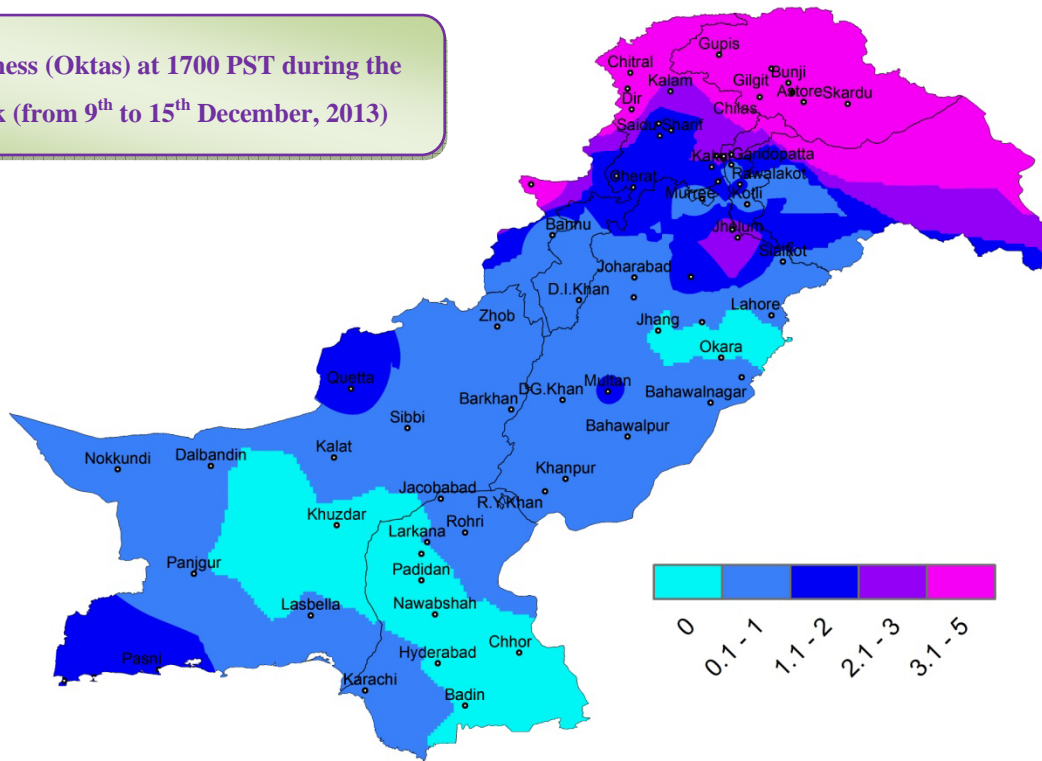
Mean Wind Speed (Knots) at 1700 PST during the Previous week (from 9th to 15th December, 2013)



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



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



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

Continental air would prevail over most parts of country during week, whereas a shallow westerly trough is also prevailing over northern most parts of the country and likely to persist during next 2 days. A fresh westerly is expected to approach in upper parts of the country during the weekend.

Punjab including Islamabad

Cold and dry weather is expected in most parts of the province during the week. Moderate to dense foggy conditions (during night/morning hours) are expected to prevail over scattered places of Punjab (Gujranwala, Lahore, Faisalabad, Multan, Sahiwal and Bahawalpur divisions) during the week.

Light rain is also expected at isolated places in Islamabad, Rawalpindi on Wednesday/Thursday and again at isolated places in Islamabad, upper Punjab (Rawalpindi, Sargodha Gujranwala, Lahore, Sahiwal and Faisalabad divisions) during the weekend.

Khyber Pakhtunkhwa

Cold and dry weather (very cold in upper parts) is expected in most parts of the province during the week. However, light rain (with light snowfall over the hills) is expected at isolated places in Malakand division on Monday, Tuesday and Thursday.

Mostly cloudy weather conditions with chances of light rain (with snowfall over the hills) is also expected at isolated places of upper KP (Malakand, Hazara Peshawar and Kohat divisions) during the weekend.

Balochistan

Cold and dry weather (very cold in north Balochistan) is expected in most parts of the province during the week. However, light rain (with light snowfall over the hills) is expected at isolated places in Quetta and Zhob divisions during the weekend.

Sindh

Mainly cold and dry weather is expected in most parts of the province during the week. Morning fog is also expected to prevail at scattered place over upper Sindh (Sukkar and Larkana division) during the week and likely to subside during the weekend.

Gilgit-Baltistan

Very Cold & cloudy weather conditions with chances of Light rain (with snowfall over the hills) is expected at scattered places in GB during Monday & Wednesday/Thursday and again during the weekend.

Kashmir

Very Cold and Dry weather is expected in most parts of Kashmir during first half of the week. However, light rain (with light snowfall over the hills) is expected at isolated places Kashmir on Wednesday/Thursday and again during the weekend.

Advises for Crops

Wheat: Farmers in cotton growing 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.

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.

National Weather Data of Selected Cities**(Weekly Data from 9th to 15th December, 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	-3.7	-6.0	***	49	0.0	2.4	3.6	0.6	15.3
Badin	15.6	14.5	***	63	0.0	0.0	0.0	0.3	0.6
Bahawalnagar	11.4	10.6	96.9	67	0.0	0.0	0.3	0.0	0.3
Bahawalpur	9.9	9.2	95.3	72	0.0	0.0	0.4	0.0	0.9
Balakot	3.4	1.7	42.9	61	0.1	3.0	2.3	0.3	0.0
Bannu	6.2	5.0	68.8	56	1.0	1.0	0.0	0.0	0.9
Barkhan	7.0	6.0	70.5	41	0.0	0.0	0.9	0.6	0.6
Bunji	2.5	0.6	22.8	56	0.0	3.6	4.7	0.6	0.0
Cherat	6.4	2.0	38.8	58	5.0	1.9	1.4	5.1	6.0
Chhor	11.6	10.5	112.2	70	0.0	0.0	0.0	0.6	3.4
Chilas	4.7	3.0	35.4	44	0.0	3.4	3.4	0.0	0.0
Chitral	2.1	-0.9	24.0	54	1.0	3.6	3.3	4.6	5.7
DG.Khan	11.4	11.0	87.5	72	0.0	0.0	0.0	3.1	3.4
D.I.Khan	7.2	5.5	76.5	68	0.3	1.1	0.7	0.0	1.1
Dalbandin	6.3	3.0	79.8	44	0.0	0.0	0.0	2.0	3.4
Dir	-0.1	-2.5	23.6	56	1.0	3.1	3.6	0.6	1.6
Drosh	0.9	-1.4	14.8	43	3.0	3.7	4.0	2.9	8.6
Faisalabad	8.1	7.6	81.0	72	0.0	0.3	0.4	0.3	0.2
Garidopatta	-1.0	-1.5	29.3	68	0.0	0.0	0.0	0.0	0.0
Gawader	14.1	10.5	114.8	76	0.0	0.4	1.6	0.0	6.4
Gilgit	-1.4	-4.5	9.7	70	0.0	3.9	4.0	0.0	0.0
Gupis	-2.6	-4.0	***	53	0.0	2.3	4.0	1.4	2.0
Hyderabad	14.9	14.5	121.0	57	0.0	0.0	0.0	2.3	6.6
Islamabad	5.6	4.0	62.2	69	3.0	2.3	0.7	0.3	0.9
Jacobabad	11.8	10.0	100.5	75	0.0	0.0	0.0	0.0	0.3
Jhang	7.7	7.0	81.6	71	0.0	0.0	0.0	0.0	0.0

Jhelum	7.6	7.2	76.7	70	0.1	1.7	2.6	0.0	1.4
Jiwani	15.0	14.0	116.5	66	0.0	0.4	1.0	0.6	5.1
Joharabad	8.2	7.0	82.6	67	0.2	1.0	0.6	1.1	0.9
Kakul	2.4	1.0	35.1	58	0.2	2.0	1.6	0.0	1.1
Kalam	-0.6	-3.0	1.0	67	3.0	2.6	2.9	0.0	0.0
Kalat	-1.6	-4.5	***	40	0.0	0.0	0.0	0.0	2.7
Karachi	15.2	15.0	122.8	63	0.0	0.4	0.6	2.4	5.1
Khanpur	10.2	8.5	92.7	72	0.0	0.0	0.4	0.6	0.3
Khuzdar	9.5	8.5	77.8	26	0.0	0.0	0.0	0.3	0.6
Kotli	4.8	3.0	59.4	68	0.1	3.0	0.7	0.0	1.1
Lahore	8.3	7.5	76.1	69	0.0	0.6	0.0	1.1	2.0
Larkana	13.7	12.5	103.4	73	0.0	0.0	0.0	0.6	1.4
Lasbella	13.5	12.0	***	60	0.0	0.0	0.0	0.9	2.3
Lower Dir	4.1	1.0	49.5	66	0.0	3.3	1.3	0.6	1.4
Malam Jabba	0.8	0.0	***	66	3.0	2.0	1.9	0.0	0.0
M.B Din	9.5	8.8	77.9	73	0.0	1.4	1.4	0.3	1.1
Mangla	6.6	5.6	71.2	64	0.1	2.7	2.1	0.0	1.7
Mir Khani	4.1	2.5	37.3	58	2.0	3.4	2.9	1.3	2.0
Moinjodaro	9.5	9.0	***	69	0.0	0.0	0.0	0.6	0.3
Multan	9.6	8.5	83.7	74	0.0	3.4	1.1	0.0	0.6
Murree	3.4	1.0	25.1	47	4.0	2.4	1.1	3.4	2.3
Muzaffarabad	4.7	3.2	51.6	69	0.1	2.6	2.7	0.3	0.0
Nokkundi	9.4	8.9	***	16	0.0	0.0	0.3	2.3	1.7
Noorpurthal	7.2	6.5	86.9	73	0.0	0.7	0.0	0.0	0.0
Okara	9.8	9.0	86.3	75	0.0	0.0	0.0	0.6	0.0
Padidan	12.6	11.5	106.3	71	0.0	0.0	0.0	0.6	0.7
Panjgur	9.3	8.5	84.5	41	0.0	0.0	0.0	8.9	10.4
Parachinar	-3.6	-5.7	***	68	0.0	4.6	5.0	3.0	3.0
Pasni	15.2	13.5	116.8	77	0.0	1.4	1.6	0.3	6.6
Pattan	9.3	7.0	66.8	62	0.0	2.0	3.1	6.3	3.1
Peshawar	6.6	5.0	75.0	66	1.1	2.9	1.7	0.9	1.1

Quetta	1.8	-0.8	35.0	41	0.8	0.6	2.1	2.2	2.4
R.Y.Khan	11.2	8.7	99.3	71	0.0	0.0	0.3	0.9	2.1
Rawalakot	-0.2	-2.5	26.5	54	2.0	2.4	1.1	0.0	0.6
Rohri	13.4	12.0	107.0	61	0.0	0.0	0.3	0.3	0.6
Rawalpindi	5.4	4.5	60.3	63	0.0	0.7	0.2	0.6	0.9
Sahiwal	8.1	7.5	81.3	72	0.0	0.0	0.0	0.3	0.9
Saidu Sharif	5.1	3.0	***	58	0.4	2.1	1.6	0.0	0.0
Sialkot	7.3	6.5	68.0	76	0.0	0.7	0.9	0.3	1.4
Sibbi	10.4	9.5	104.3	57	0.0	0.0	0.6	0.0	0.0
Skardu	-6.4	-9.2	***	68	0.0	4.3	3.6	0.0	0.0
Tandojam	12.6	11.0	113.0	67	0.0	0.0	0.0	0.3	1.1
U.Muhammad	11.3	9.5	97.3	81	0.0	0.0	0.0	0.0	0.0
Zhob	2.6	1.0	50.5	43	0.0	0.9	0.7	5.0	5.7

*** Shows that data was not available.