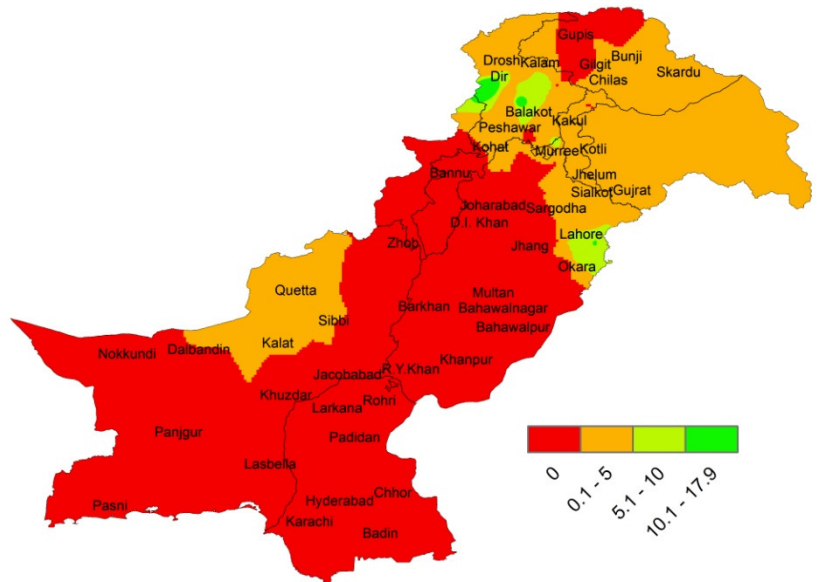


# Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall Distribution (mm) during the  
Previous Week (from 16<sup>th</sup> to 22<sup>nd</sup> December, 2013)**

## Highlights of Past Weather (from 16<sup>th</sup> to 22<sup>nd</sup> December, 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 isolated places in Punjab.
- Light rainfall reported at isolated places in Gilgit Baltistan & Kashmir regions.
- Light to moderate rainfall reported at few places in Khyber Pakhtunkhwa.
- Light rainfall reported at an isolated place in Balochistan.
- Dry weather was reported in Sindh.

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

**Past Weather of Provinces (from 16<sup>th</sup> to 22<sup>nd</sup>****December, 2013)****Punjab**

Light to moderate rainfall reported at isolated places in Punjab during the week. Weekly maximum and minimum temperatures recorded 16.4°C & 7.4°C respectively. For the present season average 47.7 growing degree days accumulated by the end of last week. Average relative humidity recorded 85% and wind speed in the morning/evening recorded 0.4/0.4 Knots. During the previous week highest amount of rainfall reported at Lahore 11.0mm and lowest minimum temperature recorded -2.5°C at Murree.

**Sindh**

Dry weather was reported in Sindh during the week. Weekly maximum and minimum temperatures recorded 24.6°C & 10.7°C respectively. For the present season average 91.7 growing degree days accumulated by the end of last week. Average relative humidity recorded 68% and wind speed in the morning/evening recorded 0.8/2.7 Knots. The lowest minimum temperature was recorded 3.8°C at Mithi.

**Khyber Pakhtunkhwa**

Light to moderate rainfall reported at few places in Khyber Pakhtunkhwa during the week. Weekly maximum and minimum temperatures recorded 14.5°C & 2.4°C respectively. For the present season average 32.5 growing degree days accumulated by the end of last week. Average relative humidity recorded 62% and wind speed in the morning/evening recorded 0.8/1.5 Knots. The highest amount of rainfall was reported at Dir 18.0mm and lowest minimum temperature recorded -10.7°C at Parachinar.

**Balochistan**

Light rainfall reported at an isolated place in Balochistan during the week. Weekly maximum and minimum temperatures recorded 20.2°C & 5.6°C respectively. For the present season average 78.3 growing degree days accumulated by the end of last week. Average relative humidity recorded 41% and wind speed in the morning/evening recorded 3.0/4.4 Knots. During the previous week highest amount of rainfall reported at Quetta 0.6mm and lowest minimum temperature recorded -10.0°C at Kalat.

**Gilgit Baltistan and Azad Jammu & Kashmir**

Light rainfall reported at isolated places in Gilgit Baltistan & Kashmir regions during the week. Weekly maximum and minimum temperatures recorded 12.8°C & 0.0°C respectively. For the present season average 28.5 growing degree days accumulated by the end of last week. Average relative humidity recorded 60% and wind speed in the morning/evening recorded 1.8/0.5 Knots. During the previous week highest amount of rainfall reported at Kotli 4.0mm and lowest minimum temperature recorded -8.7°C at Skardu.

**Past Weather for Major Agricultural Plains  
(from 16<sup>th</sup> to 22<sup>nd</sup> December, 2013)**

**Rawalpindi (Potohar region)**

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 1.1/0.7 Oktas while, average relative humidity observed 72%. Mean night time temperature recorded 2.5°C & for the present season 46.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.2/0.5 Knots.

**Faisalabad (Central Punjab)**

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.0/1.0 Oktas while, average relative humidity observed as 83%. Mean night time temperature recorded 13.5°C & for the present season 88.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.2 Knots.

**Tandojam (Lower Singh)**

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 69%. Mean night time temperature recorded 9.0°C & for the present season 90.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/0.9 Knots.

**Quetta (Northern Balochistan)**

Rainfall reported as 0.6mm during the week; however cloudiness in the morning/evening recorded 0.1/0.0 Oktas while, average relative humidity observed as 44%. Mean night time temperature recorded -4.4°C & for the present season 26.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/2.0 Knots.

**Usta Muhammad (Eastern Balochistan)**

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 87%. Mean night time temperature recorded 7.0°C & for the present season 81.5 growing degree days accumulated by the end of last week.

**Past Weather for Sub-Regional Agricultural Plains  
(from 16<sup>th</sup> to 22<sup>nd</sup> December, 2013)**

**Rohri**

Dry weather was reported during the week; average relative humidity observed as 62%. Mean night time temperature recorded 11.2°C & for the present season 89.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.3/2.0 Knots.

**Multan**

Dry weather was reported during the week; however cloudiness in the evening recorded 3.4 Oktas while, average relative humidity observed as 89%. Mean night time temperature recorded 9.0°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 0.6/2.3 Knots.

**Lahore**

Rainfall reported as 11.0mm during the week; however cloudiness in the morning/evening recorded 4.0/2.7 Oktas while, average relative humidity observed as 92%. Mean night time temperature recorded 8.2°C & for the present season 49.2 growing degree days accumulated by the end of last week.

**Zhob**

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.0/0.9 Oktas while, average relative humidity observed as 29%. Mean night time temperature recorded 2.4°C & for the present season 28.3 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**

Dry weather was reported during the week; average relative humidity observed as 84%. Mean night time temperature recorded 7.2°C & for the present season 49.9 growing degree days accumulated by the end of last week.

**Peshawar**

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 1.8/2.4 Oktas while, average relative humidity observed as 70%. Mean night time temperature recorded 7.1°C & for the present season 54.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/0.6 Knots.

**Murree**

Rainfall reported as 7.0mm during the week; however cloudiness in the morning/evening recorded 2.2/3.0 Oktas while, average relative humidity observed as 58%. Mean night time temperature recorded 1.3°C & for the present season 8.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/8.7 Knots.

**Kalam**

Rainfall reported as 4.0mm during the week; however cloudiness in the morning/evening recorded 4.6/4.9 Oktas while, average relative humidity observed as 68%. Mean night time temperature recorded -2.0°C.

**Gilgit**

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 5.3/6.1 Oktas while, average relative humidity observed as 60%. Mean night time temperature recorded -1.1°C & for the present season 4.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/0.3 Knots.

**Skardu**

Rainfall reported as 1.0mm during the week; however cloudiness in the morning/evening recorded 4.3/4.7 Oktas while, average relative humidity observed as 69%. Mean night time temperature recorded -6.4°C by the end of last week.

**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 RMC Rawalpindi.

**Central Punjab (Faisalabad)**

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

**Wheat:** Very good condition at *Piling* stage.

**Lower Sindh (Tandojam)**

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

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

**Northern Balochistan (Quetta)**

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

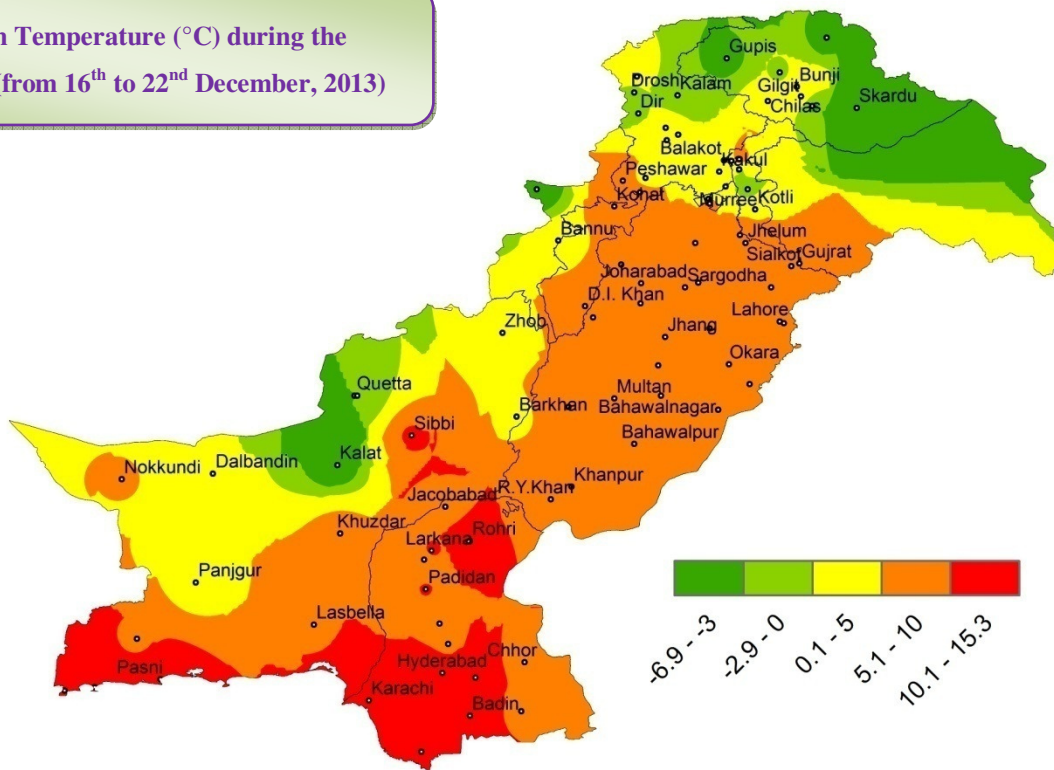
**Wheat (Local white):** Good condition at *Emergence* stage.

**Eastern Balochistan (Usta Muhammad)**

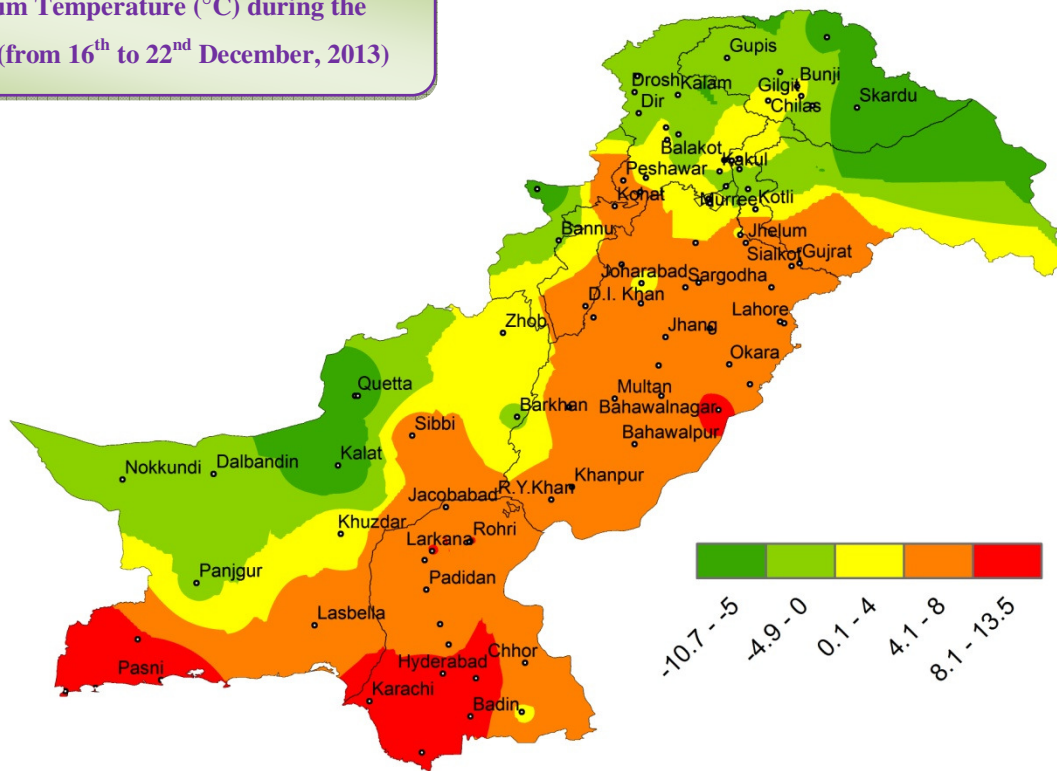
There is presently one crop (irrigated condition) grown in the fields of RMC Usta Muhammad.

**Wheat:** Good condition at *Germination* stage.

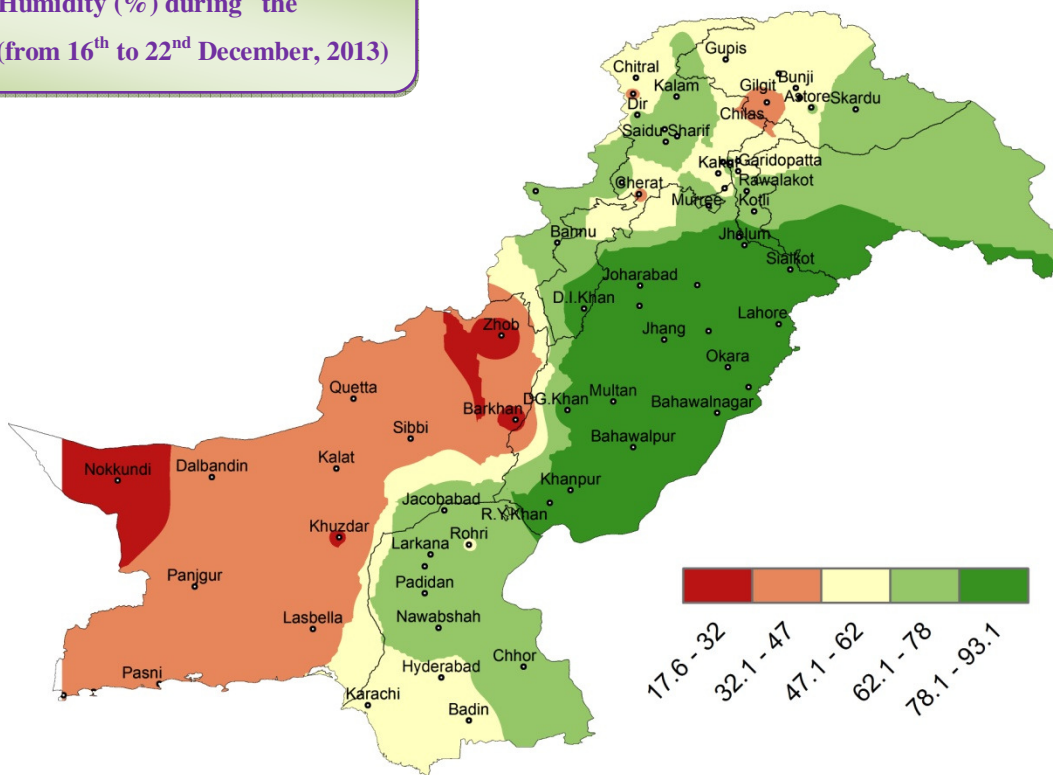
Mean Minimum Temperature (°C) during the Previous week (from 16<sup>th</sup> to 22<sup>nd</sup> December, 2013)



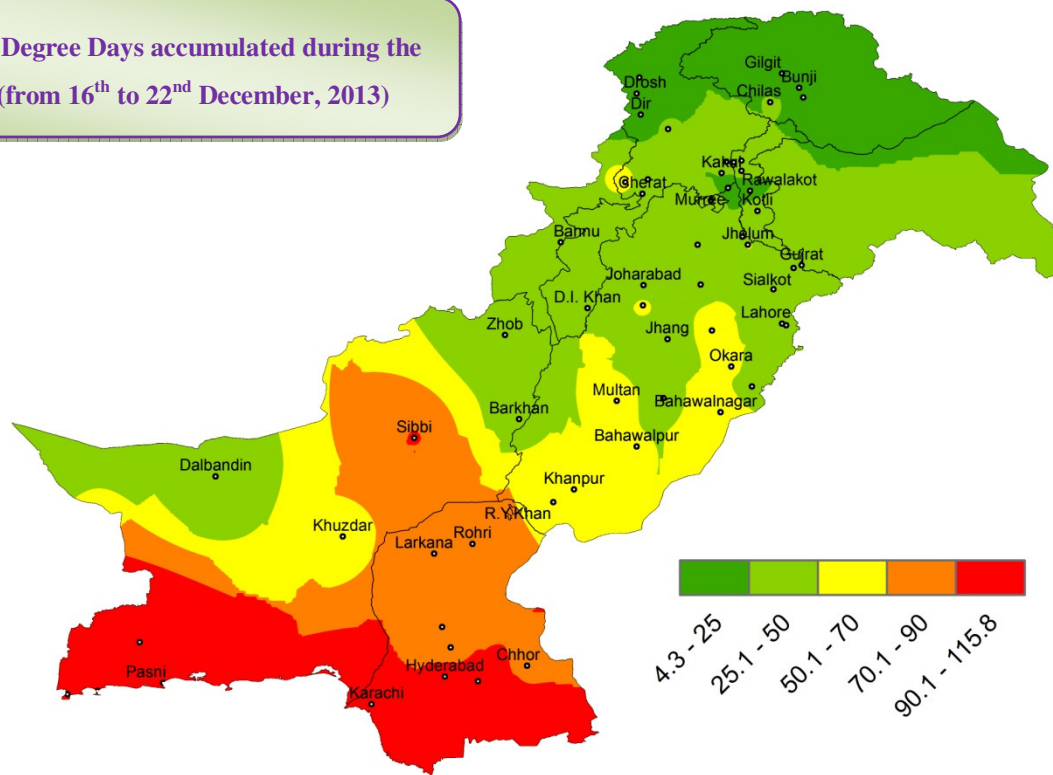
Lowest Minimum Temperature (°C) during the Previous week (from 16<sup>th</sup> to 22<sup>nd</sup> December, 2013)



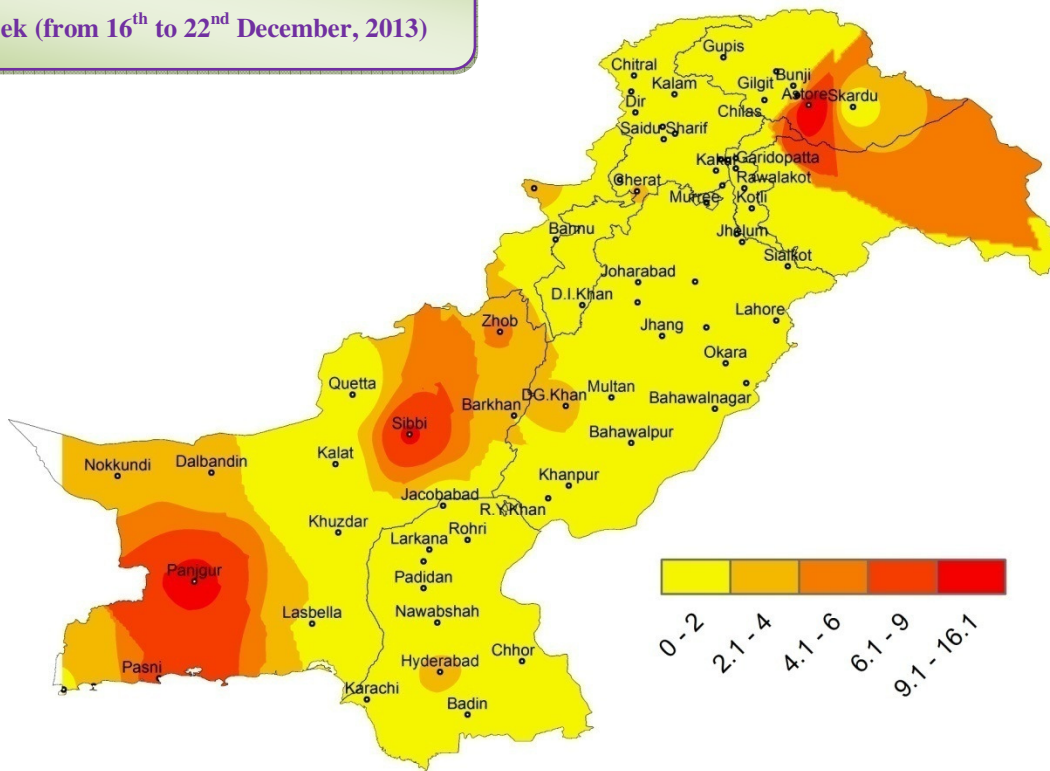
Mean Relative Humidity (%) during the Previous week (from 16<sup>th</sup> to 22<sup>nd</sup> December, 2013)



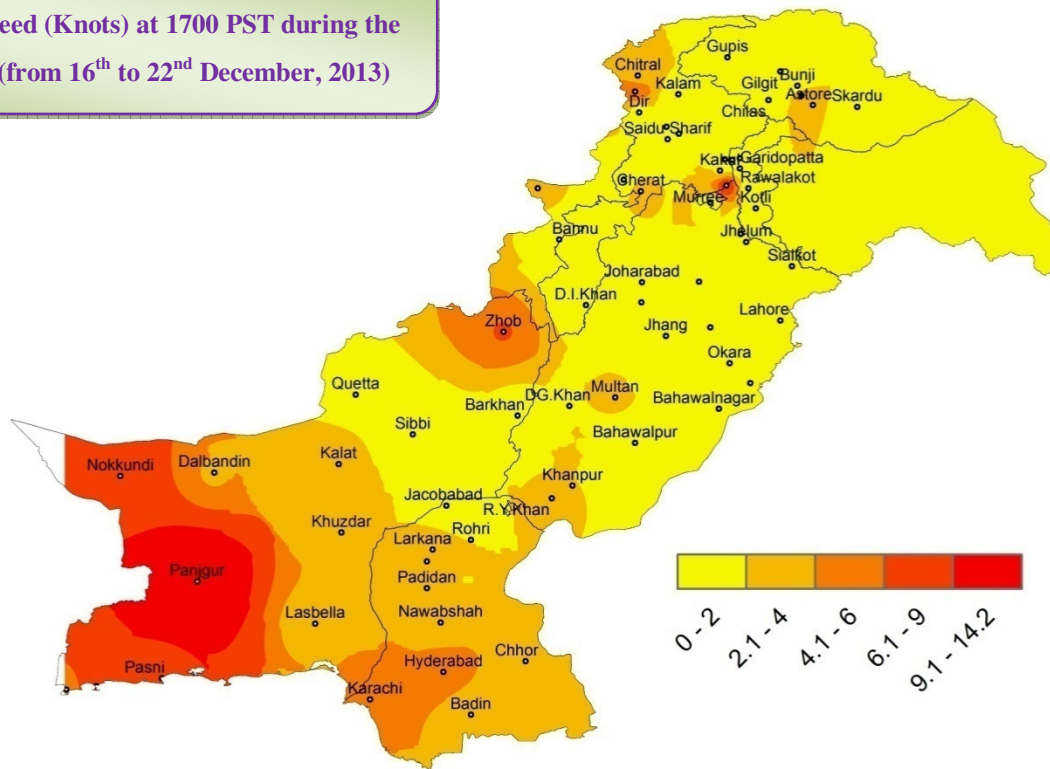
Total Growing Degree Days accumulated during the Previous week (from 16<sup>th</sup> to 22<sup>nd</sup> December, 2013)



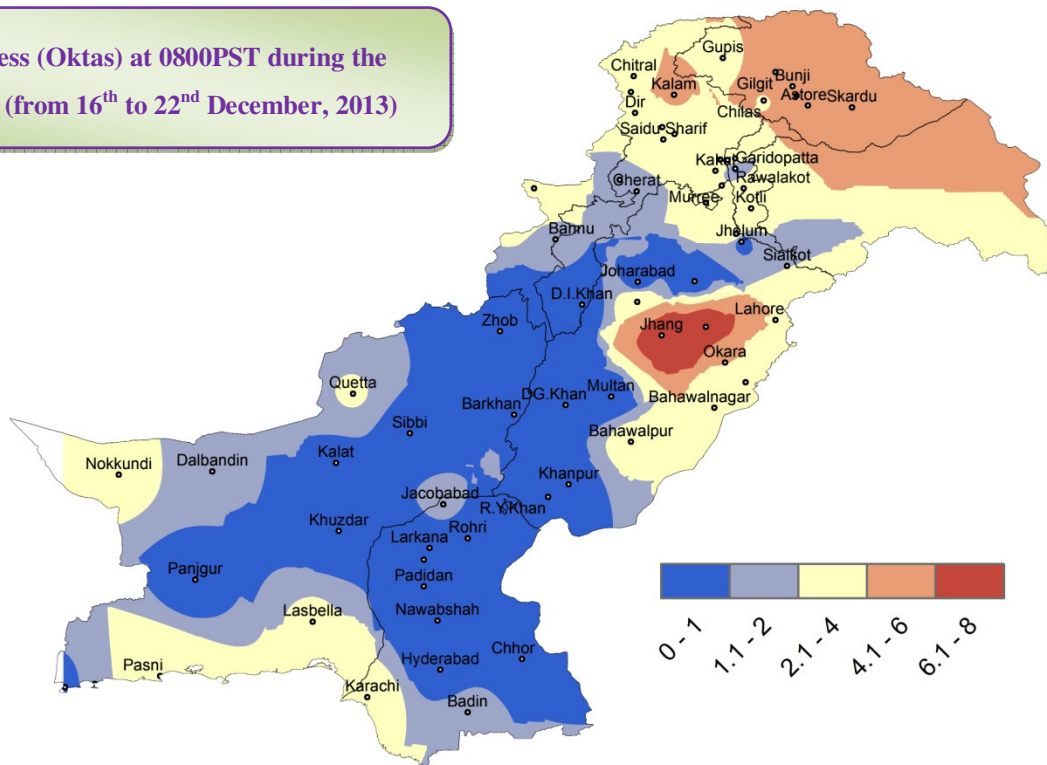
Mean Wind Speed (Knots) at 0800 PST during the Previous week (from 16<sup>th</sup> to 22<sup>nd</sup> December, 2013)



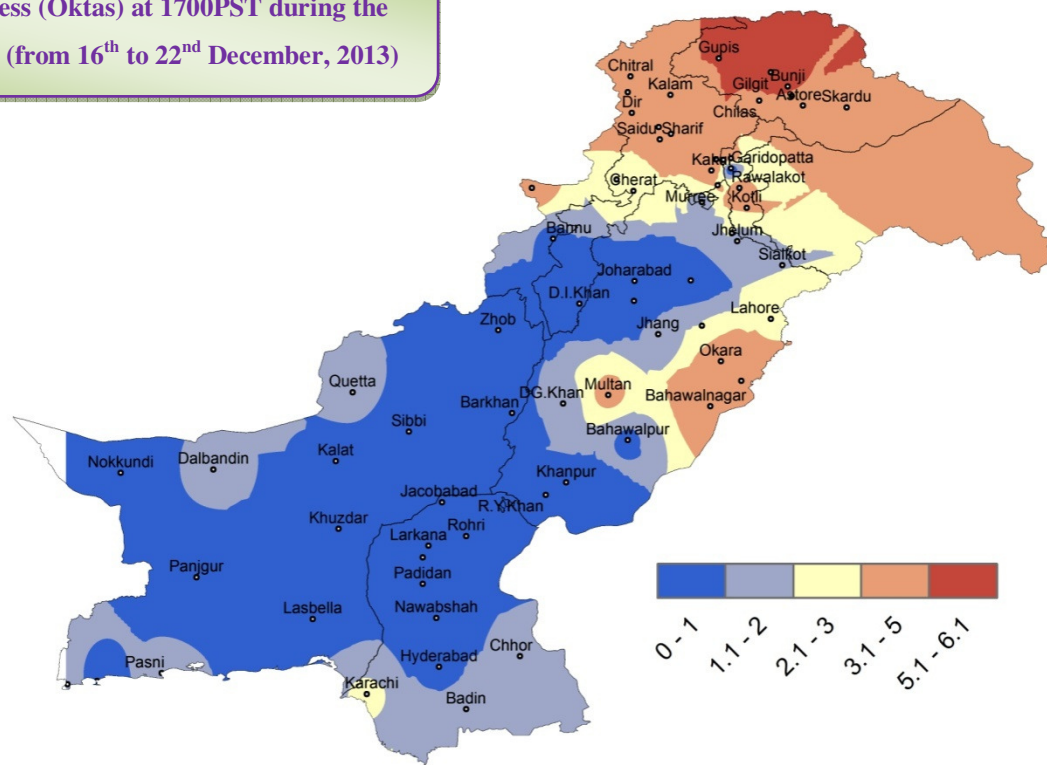
Mean Wind Speed (Knots) at 1700 PST during the Previous week (from 16<sup>th</sup> to 22<sup>nd</sup> December, 2013)



Mean Cloudiness (Oktas) at 0800PST during the Previous week (from 16<sup>th</sup> to 22<sup>nd</sup> December, 2013)



Mean Cloudiness (Oktas) at 1700PST during the Previous week (from 16<sup>th</sup> to 22<sup>nd</sup> December, 2013)





**Weekly Weather Advisory for Farmers****(From 23<sup>rd</sup> to 29<sup>th</sup> December, 2013)**

A shallow westerly wave is affecting northern areas of country and likely to persist during next 24 hours. Continental air would follow and prevail over most parts of the country during rest of the week.

**Punjab including Islamabad**

Cold and dry weather is expected in most parts of the province during the week. Shallow foggy/misty mornings are expected to prevail over isolated places of upper Punjab (Gujranwala, Lahore, Faisalabad divisions) during the week. Night temperatures are likely to fall further in upper Punjab during next three days.

**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 Saturday/Sunday. Very cold conditions would continue in upper parts during the week.

**Balochistan**

Very cold and dry weather is expected in most parts of the province during the week.

**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 isolated place of upper Sindh (Sukkar and Larkana division) during the week.

**Gilgit-Baltistan**

Isolated rain with light snowfall over the hills is expected on Monday, Tuesday and during weekend. Very cold conditions would continue during the week.

**Kashmir**

Very cold and dry weather is expected in most parts of Kashmir during the week. Isolated rain with light snowfall over the hills is expected during weekend.

**Advises for Crops**

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

***Wheat:*** Farmers of wheat growing areas are advised to sow their crops in time to get the optimum yield and manage irrigation practices as per weather prediction during the week. Farmers of barani areas are advised to remove weeds from the fields, so that the present soil moisture may fully be utilized.

***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 16<sup>th</sup> to 22<sup>nd</sup> 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	-3.8	-5.0	***	64	2.0	4.8	4.6	16.3	2.0
Badin	13.1	8.5	***	60	0.0	1.6	1.9	1.2	2.0
Bahawalnagar	10.0	8.7	61.4	83	0.0	4.0	4.0	0.7	1.4
Bahawalpur	8.6	5.6	50.4	90	0.0	3.0	0.8	0.0	0.6
Balakot	2.4	0.6	34.3	59	0.0	2.3	3.6	0.4	0.6
Bannu	2.8	0.0	42.1	63	0.0	1.7	0.7	0.0	0.3
Barkhan	3.9	-0.5	43.5	29	0.0	0.8	0.3	2.0	0.6
Bunji	3.2	0.6	18.2	49	0.0	6.2	6.2	0.3	0.0
Cherat	7.0	5.5	36.0	45	0.0	1.5	2.3	2.3	2.9
Chhor	8.1	4.3	89.1	72	0.0	0.4	1.7	0.0	2.6
Chilas	3.2	2.0	26.6	39	0.0	3.9	4.6	0.0	0.3
Chitral	1.3	-0.9	15.3	58	0.0	3.6	4.7	2.0	2.9
DG.Khan	9.7	7.0	***	82	0.0	0.0	1.5	2.3	2.0
D.I.Khan	7.2	6.8	49.9	84	0.0	0.0	0.0	0.0	0.0
Dalbandin	0.9	-3.0	31.5	40	0.0	1.5	1.3	2.3	3.7
Dir	-0.4	-4.0	10.8	64	18.0	2.9	4.9	0.4	0.9
Drosh	-0.6	-3.3	4.2	44	0.0	4.0	4.6	0.9	6.0
Faisalabad	9.4	8.0	52.8	83	0.0	0.0	1.0	0.0	0.2
Garidopatta	-1.2	-2.5	28.0	62	0.0	0.7	0.0	0.0	0.0
Gawader	13.3	12.0	109.3	44	0.0	2.0	0.4	3.0	8.0
Gilgit	-1.1	-4.5	4.3	60	0.0	5.3	6.1	0.9	0.3

Gupis	-4.1	-5.0	***	61	0.0	3.6	5.0	1.6	0.0
Hyderabad	12.7	10.0	95.0	60	0.0	0.0	0.6	2.3	5.7
Islamabad	4.2	2.4	47.2	74	0.0	2.7	1.6	0.0	0.6
Jacobabad	9.5	7.5	***	67	0.0	1.5	0.0	0.7	0.9
Jhang	7.3	5.2	44.0	90	0.0	8.0	1.2	0.0	0.0
Jhelum	6.5	4.5	50.3	84	0.2	0.0	1.2	0.0	0.9
Jiwani	15.1	12.0	110.8	46	0.0	0.0	1.9	1.3	4.9
Joharabad	5.5	3.5	38.0	92	0.0	0.0	0.0	0.0	0.3
Kakul	1.7	0.0	25.9	61	0.0	2.6	3.9	0.3	1.4
Kalam	-2.0	-5.0	***	68	4.0	4.6	4.9	0.0	0.0
Kalat	-5.5	-10.0	***	39	0.0	0.7	0.7	0.0	3.1
Karachi	14.2	8.6	113.1	51	0.0	3.3	2.1	0.7	5.1
Khanpur	8.3	5.0	58.5	85	0.0	0.0	1.0	0.7	2.0
Khuzdar	7.4	3.0	64.8	32	0.0	0.0	0.0	0.0	2.6
Kotli	4.6	4.0	48.0	72	4.0	3.2	3.0	0.0	0.7
Lahore	8.2	8.0	49.2	92	11.0	4.0	2.7	0.0	0.0
Larkana	10.4	8.4	80.5	72	0.0	0.0	0.3	1.7	2.9
Lasbella	9.5	6.0	***	44	0.0	2.3	0.3	2.0	2.6
Lower Dir	2.4	0.5	28.5	70	0.0	2.0	3.0	0.3	0.6
Malam Jabba	-0.4	-5.0	***	62	14.0	2.6	4.1	0.0	0.0
M. B. Din	8.3	6.5	49.2	93	0.0	0.0	0.0	0.7	0.6
Mangla	5.6	3.9	48.0	82	0.0	3.5	2.1	0.0	0.6
Mir Khani	2.8	1.0	24.8	53	0.2	3.7	3.9	1.4	3.7
Moinjodaro	8.4	5.5	***	69	0.0	0.0	0.0	0.0	2.0
Multan	9.0	5.8	52.8	89	0.0	***	3.4	0.6	2.3
Murree	1.3	-2.5	8.1	58	7.0	2.2	3.0	0.3	8.7

Muzaffarabad	3.6	2.0	38.8	68	3.0	2.8	3.1	1.0	0.3
Nokkundi	5.3	-0.3	***	18	0.0	2.7	0.3	3.3	7.7
Noorpurthal	7.5	4.5	52.0	88	0.0	4.0	0.8	0.0	0.0
Okara	8.7	7.2	51.2	87	0.0	4.0	4.4	0.0	0.3
Padidan	10.1	7.5	***	70	0.0	0.5	0.3	0.3	2.0
Panjgur	2.0	-1.0	***	39	0.0	0.0	0.4	9.7	14.3
Parachinar	-6.9	-10.7	***	66	0.0	3.7	3.9	3.0	3.0
Pasni	15.3	11.5	116.3	42	0.0	3.8	1.3	7.0	7.7
Pattan	7.6	4.0	53.3	51	0.0	2.7	4.0	1.0	2.0
Peshawar	7.1	5.0	54.3	70	0.0	1.8	2.4	0.3	0.6
Quetta	-0.7	-4.4	26.2	44	0.6	0.1	0.0	0.9	2.0
R.Y.Khan	8.6	5.7	66.8	81	0.0	1.0	0.6	1.7	2.3
Rawalakot	-1.6	-3.5	11.1	69	0.3	3.3	3.9	0.0	0.3
Rohri	11.2	9.0	89.2	62	0.0	0.0	0.0	1.3	2.0
Rawalpindi	4.4	2.5	46.8	72	0.0	1.1	0.7	0.2	0.5
Sahiwal	7.1	5.7	43.4	90	0.0	2.7	3.8	0.3	1.7
Saidu Sharif	3.8	2.0	***	62	0.0	3.5	3.6	0.0	0.0
Sialkot	7.5	6.2	47.4	91	1.0	2.0	2.0	0.0	0.0
Sibbi	10.6	7.0	90.3	44	0.0	0.2	0.0	9.3	0.0
Skardu	-6.4	-8.7	***	69	1.0	4.3	4.7	0.0	0.0
Tandojam	11.1	9.0	90.0	0	0.0	0.0	0.3	0.3	0.9
U.Muhammad	9.7	7.0	81.5	87	0.0	0.6	0.0	0.0	0.0
Zhob	2.4	1.0	28.3	29	0.0	0.0	0.9	4.2	6.1

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