

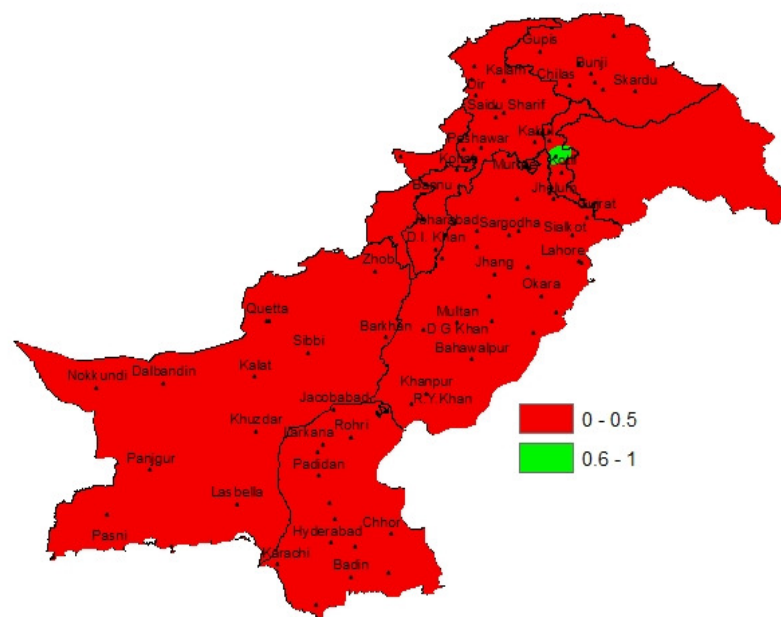
Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall Distribution (mm) during the
Previous Week (From 15th to 21st December, 2014)**



Contents

Highlights of past weather (General)	1-2
Past weather for Agri Plains	3-4
Crop progress	4
Min Temperature maps	5
R.H and GDD	6
Wind speed maps	7
Cloudiness maps	8
Farmers advisory	9
National data for selected stations	10-12

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Chief Editor: Dr. Khalid Mahmood Malik (Director)
Editor: Khalida Noureen (Meteorologist)

Highlights of Past Weather (From 15th to 21st December, 2014)

Mainly normal day time temperature was reported from most parts of the country during the week. Province wise distribution of rainfall reported as follows:

- Dry weather was reported in Punjab, Khyber Pakhtunkhwa, Sindh and Balochistan.
- Light rainfall reported at single station (Rawalakot = 1.0mm) in Gilgit-Baltistan & Kashmir regions.

**Past Weather of Provinces (From 15th to 21st
December, 2014)**

Punjab

Dry weather was reported in Punjab during the week. Weekly maximum and minimum temperatures recorded 15.1°C & 4.7°C respectively. For the present season average 41.0 growing degree days accumulated by the end of last week. Average relative humidity recorded 82% and wind speed in the morning/evening 0.3/0.5 Knots. During the previous week lowest minimum temperature was recorded -2.0°C at Murree.

Sindh

Dry weather was reported in Sindh during the week. Weekly maximum and minimum temperatures recorded 22.9°C & 7.3°C respectively. For the present season average 80.0 growing degree days accumulated by the end of last week. Average relative humidity recorded 65% and wind speed in the morning/evening recorded 0.3/1.5 Knots. During the previous week lowest minimum temperature was recorded 2.0°C at Mithi.

Khyber Pakhtunkhwa

Dry weather was reported in Khyber Pakhtunkhwa during the week. Weekly maximum and minimum temperatures recorded 15.1°C & 0.1°C respectively. For the present season average 25.6 growing degree days accumulated by the end of last week. Average relative humidity recorded 57% and wind speed in the morning/evening recorded 1.0/2.2 Knots. During the previous week lowest minimum temperature recorded -5.5°C at Risalpur.

Balochistan

Dry weather was reported in Balochistan during the week. Weekly maximum and minimum temperatures recorded 21.3°C & 3.3°C respectively. For the present season average 74.9 growing degree days accumulated by the end of last week. Average relative humidity recorded 42% and wind speed in the morning/evening recorded 1.5/3.1 Knots. During the previous week lowest minimum temperature recorded -9.0°C at Kalat.

Gilgit-Baltistan and Azad Jammu & Kashmir

Rainfall reported only at single station (Rawalakot=1.0mm) in Gilgit-Baltistan & Kashmir regions during the week. Weekly maximum and minimum temperatures recorded 12.7°C & -1.8°C respectively. For the present season average 32.8 growing degree days accumulated by the end of last week. Average relative humidity recorded 58% and wind speed in the morning/evening recorded 0.4/0.2 Knots. During the previous week lowest minimum recorded -10.8°C at Skardu.

**Past Weather for Major Agricultural Plains
(From 15th to 21st December, 2014)****Rawalpindi (Potohar region)**

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.4/1.2 Oktas while, average relative humidity observed 78%. Mean night time temperature recorded 3.1°C & for the present season 38.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/0.5 Knots.

Faisalabad (Central Punjab)

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 1.3/0.0 Oktas while average relative humidity observed as 81%. Mean night time temperature recorded 5.5°C & for the present season 31.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.2/0.5 Knots.

Quetta (Northern Balochistan)

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 1.9/2.4 Oktas while, average relative humidity observed as 24%. Mean night time temperature recorded -2.1°C & for the present season -12.6 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.2/2.3 Knots.

Usta Muhammad (Eastern Balochistan)

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.0/0.0 Oktas while, average relative humidity observed as 76%. Mean night time temperature recorded 5.4°C & for the present season 57.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.4 Knots.

Tandojam (Lower Singh)

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.6/0.6 Oktas while average relative humidity observed as 64%. Mean night time temperature recorded 14.1°C & for the present season 68.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening 0.2/0.2 Knots.

**Past Weather for Sub-Regional Agricultural
Plains (From 15th to 21st December, 2014)****Multan**

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 4.6/1.7 Oktas while, average relative humidity observed as 85%. Mean night time temperature recorded 5.8°C & for the present season 46.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/1.1 Knots.

Rohri

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.9/2.3 Oktas while, average relative humidity observed as 70%. Mean night time temperature recorded 8.3°C & for the present season 69.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.0 Knots.

Lahore

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 6.4/4.0 Oktas while, average relative humidity observed as 82%. Mean night time temperature recorded 6.7°C & for the present season 41.6 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.0 Knots.

Zhob

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.7/1.14 Oktas while, average relative humidity observed as 30%. Mean night time temperature recorded 0.2°C & for the present season 43.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 5.0/4.3 Knots.

D.I. Khan

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.7/1.3 Oktas while, average relative humidity observed as 57%. Mean night time temperature recorded 2.9°C & for the present season 84.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.7/1.1 Knots.

Peshawar

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 2.9/4.8 Oktas while, average relative humidity observed as 78%. Mean night time temperature recorded 2.3°C & for the present season 24.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.3 Knots.

Murree

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 1.3/2.3 Oktas while, average relative humidity observed as 44%. Mean night time temperature recorded 0.9°C & for the present season 21.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.4/0.9 Knots.

Kalam

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 3.4/2.3 Oktas while, average relative humidity observed as 62%. Mean night time temperature recorded -3.2°C & for the present season 78 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.0 Knots.

Gilgit

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 4.4/4.1 Oktas while, average relative humidity observed as 66%. Mean night time temperature recorded -4.7°C & for the present season 78.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening 0.0/0.0 Knots.

Skardu

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 4.3/3.7 Oktas while, average relative humidity observed as 65%. Mean night time temperature recorded -8.1°C of last week. Wind speed recorded in the morning/evening 0.0/0.0 Knots.

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

Potohar Region (Rawalpindi)

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

Wheat Chakwal 97: Good condition at *Third Leaf* stage.

Central Punjab (Faisalabad)

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

Wheat: Good condition at *Tillering* completed.

Lower Sindh (Tandojam)

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

Wheat TJ 83: Good condition at *Third Leaf*.

Northern Balochistan (Quetta)

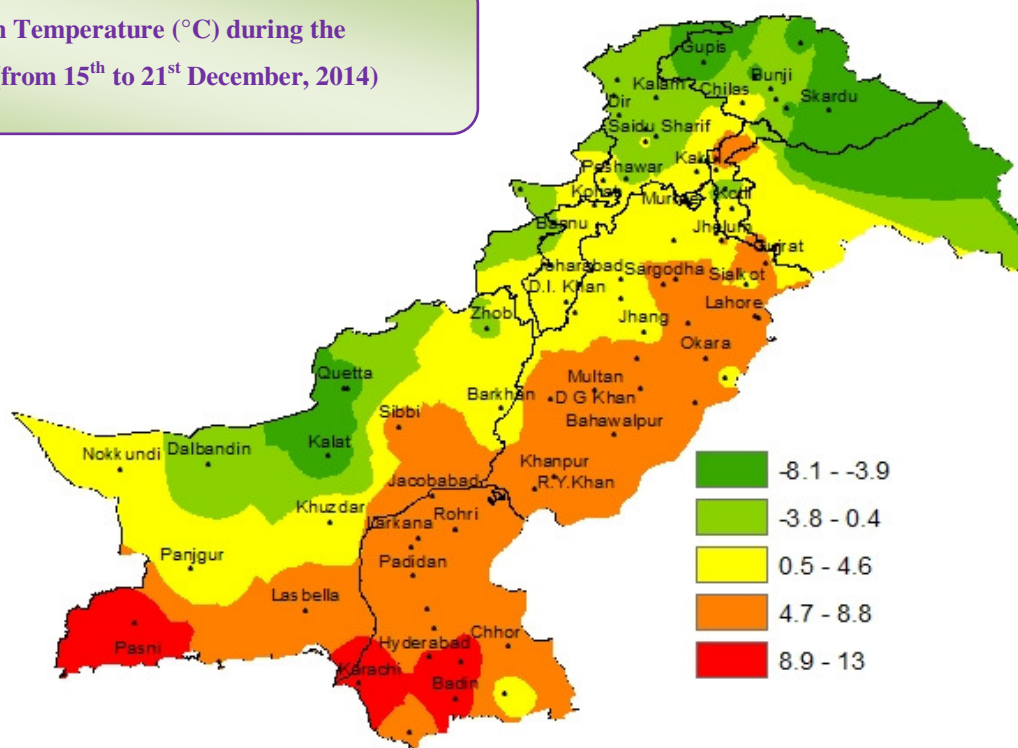
There is presently no crop in the fields of RAMC Quetta.

Eastern Balochistan (Usta Muhammad)

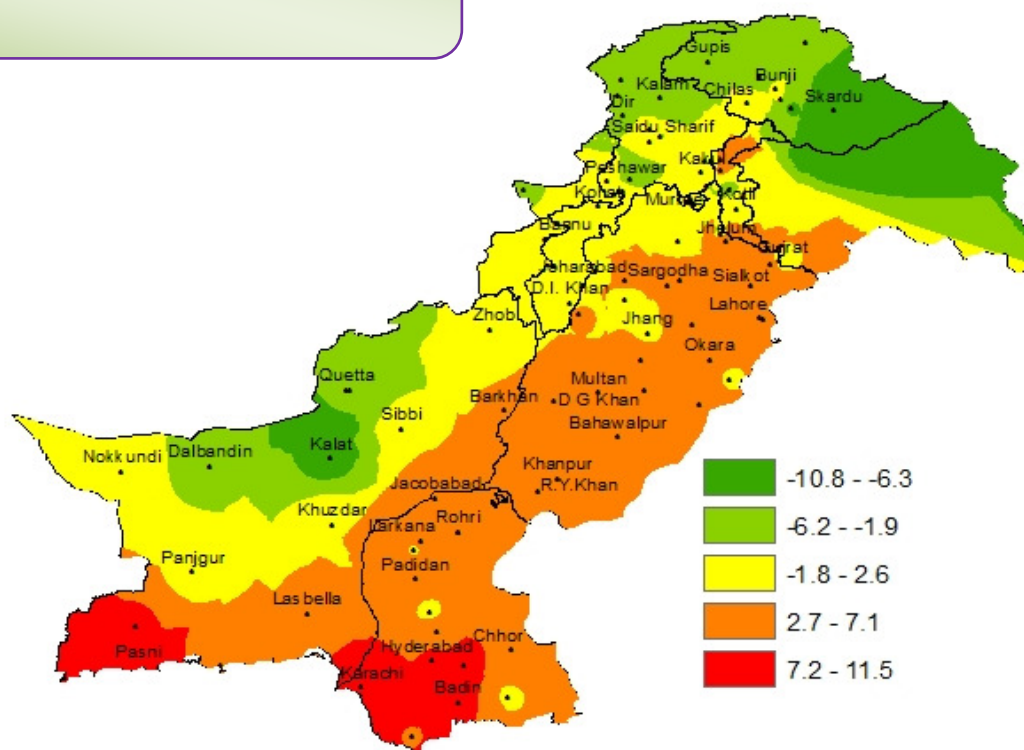
There is presently one crop grown in the fields of RAMC Usta Muhammad.

Wheat: Good condition at *Third Leaf* completed.

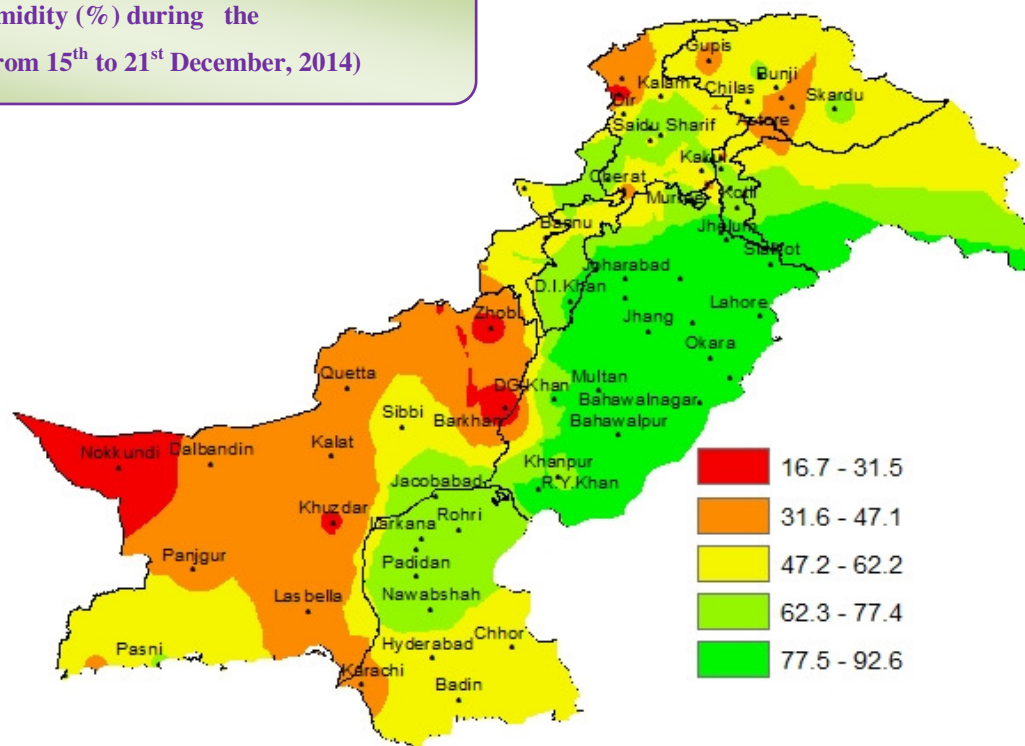
Mean Minimum Temperature ($^{\circ}\text{C}$) during the
Previous week (from 15th to 21st December, 2014)



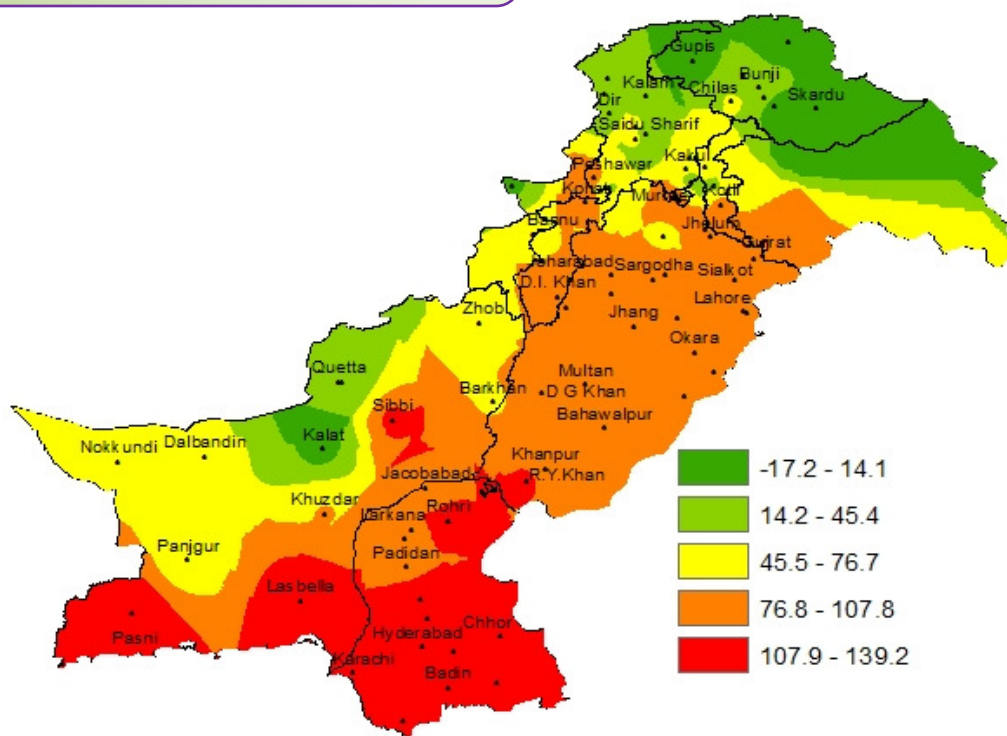
Lowest Minimum Temperature ($^{\circ}\text{C}$) during the
Previous week (from 15th to 21st December, 2014)



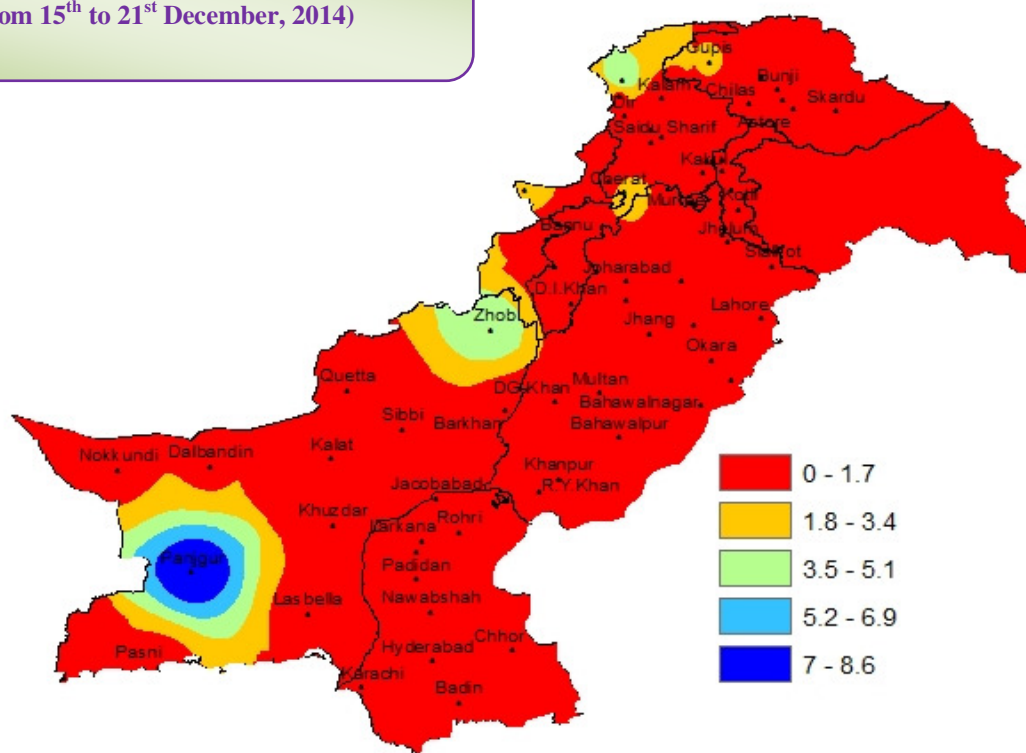
Mean Relative Humidity (%) during the
Previous week (from 15th to 21st December, 2014)



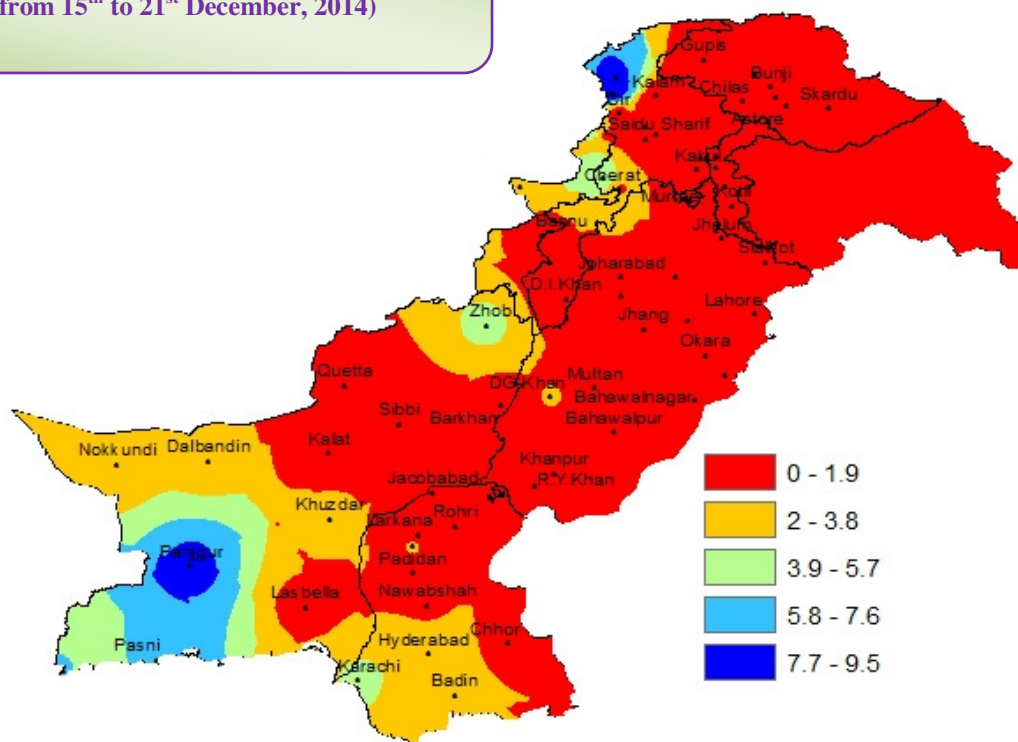
Total Growing Degree Days accumulated during the
Previous week (from 15th to 21st December, 2014)



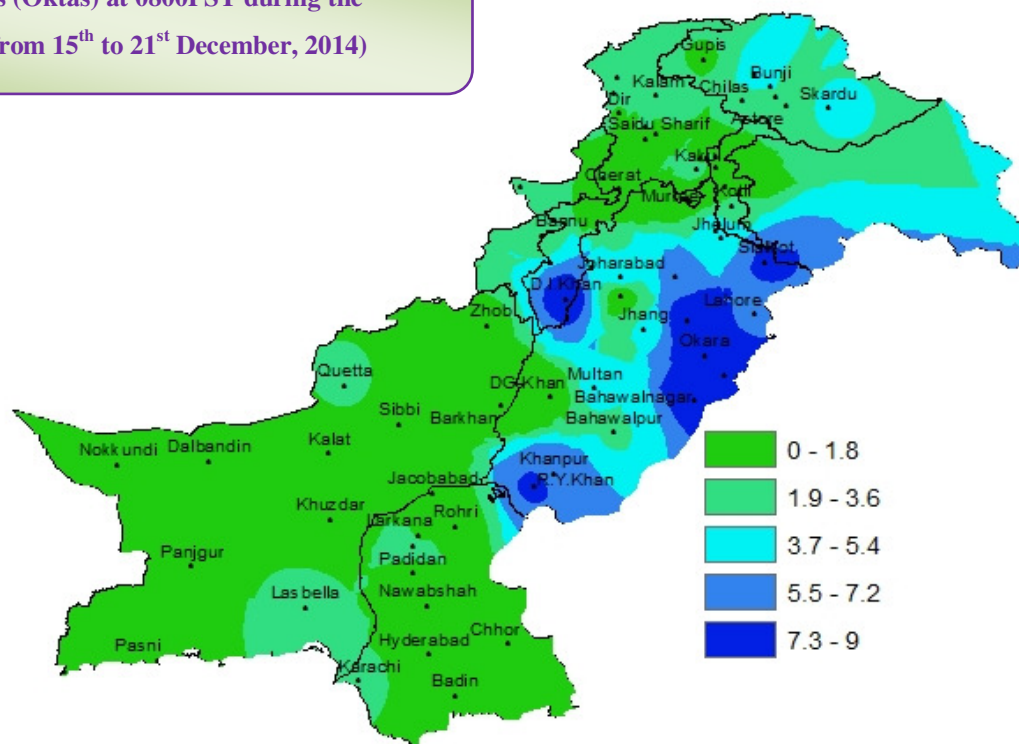
Mean Wind Speed (Knots) at 0800 PST during the
Previous week (from 15th to 21st December, 2014)



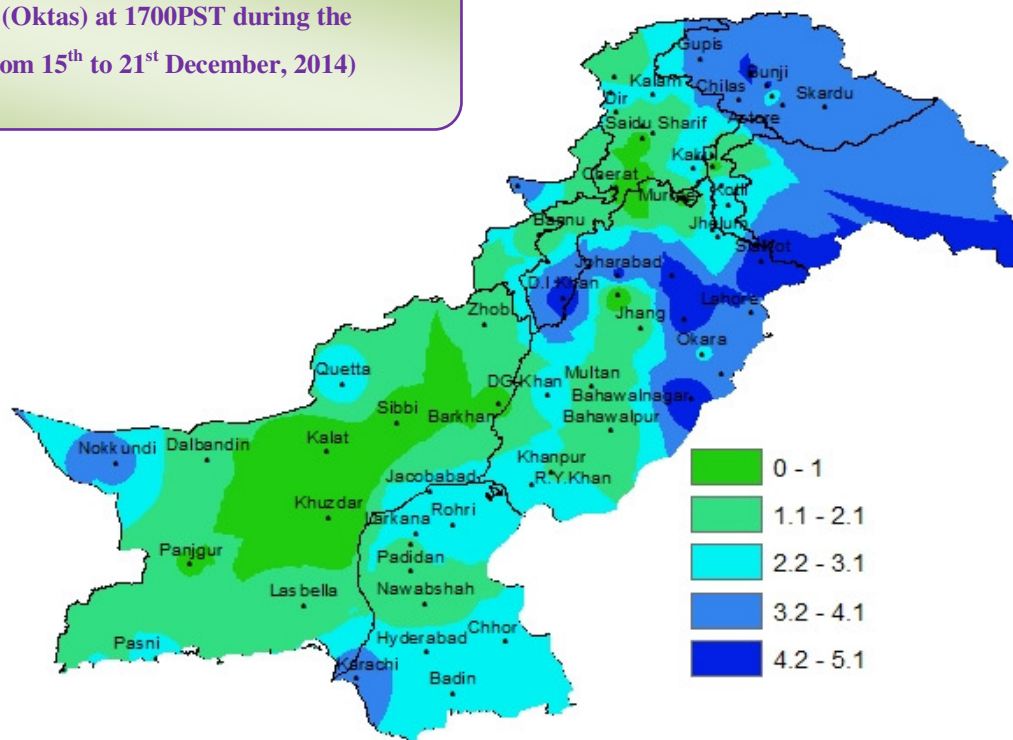
Mean Wind Speed (Knots) at 1700 PST during the
Previous week (from 15th to 21st December, 2014)



Mean Cloudiness (Oktas) at 0800PST during the
Previous week (from 15th to 21st December, 2014)



Mean Cloudiness (Oktas) at 1700PST during the
Previous week (from 15th to 21st December, 2014)



Weekly Weather Advisory for Farmers
(From 22nd to 28th December, 2014)

Continental air is prevailing over most parts of the country. A shallow trough of westerly wave is prevailing over northern parts of the country.

MONDAY
22-12-2014

Very cold and dry weather is expected in most parts of the country; however, light rain (light snow over the hills) is expected at isolated places in Malakand, Hazara divisions, Gilgit-Baltistan, Kashmir and adjoining hilly areas. Dense foggy conditions would continue in Gujranwala, Lahore, Faisalabad and Sahiwal divisions, while foggy in Sargodha, Rawalpindi, Multan, Bahawalpur, D.G Khan, Peshawar, D.I Khan and Sukkur divisions during night & morning hours.

TUESDAY
23-12-2014

Very cold and dry weather is expected in most parts of the country; however, light rain (light snow over the hills) is expected at isolated places in Malakand division, Gilgit-Baltistan, Kashmir and adjoining hilly areas. Dense foggy conditions would continue in Gujranwala, Lahore, Faisalabad and Sahiwal divisions, while foggy in Sargodha, Rawalpindi, Multan, Bahawalpur, D.G Khan, Peshawar, D.I Khan and Sukkur divisions during night & morning hours.

WEDNESDAY
24-12-2014

Very cold and dry weather is expected in most parts of the country; however, light rain (light snow over the hills) is expected at isolated places in Malakand division and Gilgit-Baltistan. Foggy conditions would continue over the plains of Punjab, Khyber Pakhtunkhwa and upper Sindh during night & morning hours.

THURSDAY
25-12-2014

Very cold and dry weather is expected in most parts of the country; however, light rain (light snow over the hills) is expected at isolated places in Malakand, Hazara division and Gilgit-Baltistan. Foggy conditions would continue over the plains of Punjab, Khyber Pakhtunkhwa and upper Sindh during night & morning hours.

FRIDAY
26-12-2014

Very cold and dry weather is expected in most parts of the country. Foggy conditions are expected to prevail over the plains of Punjab, Khyber Pakhtunkhwa and upper Sindh during night & morning hours.

SATURDAY
27-12-2014

Very cold and dry weather is expected in most parts of the country. Foggy conditions are expected to prevail over the plains of Punjab, Khyber Pakhtunkhwa and upper Sindh during night & morning hours.

SUNDAY
28-12-2014

Very cold and dry weather is expected in most parts of the country. Foggy conditions are expected to prevail over the plains of Punjab, Khyber Pakhtunkhwa and upper Sindh during night & morning hours.

Advises for Crops

- Farmers of irrigated areas are advised to irrigate wheat crop due to expected dry weather. First irrigation should be given after 20 – 24 days after cultivation.
- Farmers should in time precautionary measures to protect orchards and other sensitive standing crops from frost especially in plain areas.

National Weather Data of Selected Cities**(Weekly Data from 15th to 21st December, 2014)**

Stations	Minimum/Night time Temperature (°C)		Growin g Deg. Days	Relative Humidity (%)	Rainfall (mm)	Cloudiness (Oktas) 0800PST	Cloudiness (Oktas) 1700PST	Wind Speed (Knots) 0800PST	Wind Speed (Knots) 1700PST
	Mean	Lowest							
Astore	-5.0	-7.5	***	45.1	0.0	2.1	3.6	1.7	0.3
Badin	9.8	8.5	89.8	59.1	0.0	0.6	2.4	0.6	2.3
Bahawalnagar	6.3	5.5	44.2	88.4	0.0	7.7	4.9	0.3	0.3
Bahawalpur	6.2	4.4	55.3	80.5	0.0	3.3	1.6	0.9	0.3
Balakot	0.3	-1.0	41.2	65.3	0.0	0.9	2.7	0.0	0.0
Bannu	0.0	-1.0	31.2	59.6	0.0	2.4	1.3	0.0	0.6
Barkhan	3.6	3.0	64.3	23.9	0.0	0.0	0.9	0.6	0.9
Bunji	-0.3	-1.1	16.9	50.1	0.0	4.0	4.3	0.0	0.0
Cherat	3.5	2.0	28.8	43.1	0.0	0.4	1.0	2.9	1.7
Chhor	5.9	5.0	95.9	54.4	0.0	1.3	2.3	0.3	1.1
Chilas	2.1	1.0	28.3	48.5	0.0	2.9	3.9	0.0	0.0
Chitral	-1.6	-2.6	23.0	47.4	0.0	2.9	1.1	5.1	8.0
DG.Khan	6.3	5.3	51.1	78.6	0.0	0.4	2.4	0.0	2.0
D.I.Khan	2.3	0.5	24.8	77.5	0.0	9.0	4.6	0.0	0.3
Dalbandin	-1.4	-3.5	52.1	34.7	0.0	1.4	1.1	1.1	2.9
Dir	-2.9	-3.5	20.0	56.9	0.0	1.6	2.0	0.0	0.6
Drosh	-1.1	-2.4	24.9	18.8	0.0	3.4	3.0	1.4	9.6
Faisalabad	5.5	4.0	31.5	81.0	0.0	1.3	0.0	0.2	0.5
Garidopatta	3.7	3.0	66.0	73.8	0.0	0.0	0.6	0.0	0.0
Gawader	10.4	8.0	110.8	45.7	0.0	1.6	2.1	0.0	4.3
Gilgit	-4.7	-6.0	7.8	65.7	0.0	4.4	4.1	0.0	0.0
Gupis	-5.1	-6.0	***	45.3	0.0	1.4	3.3	2.0	0.3

Hyderabad	8.9	8.0	78.0	55.1	0.0	0.6	2.9	0.9	3.7
Islamabad	2.0	1.0	42.4	78.4	0.0	1.0	0.9	0.0	0.3
Jacobabad	6.1	5.0	55.5	73.9	0.0	0.0	2.1	0.0	0.3
Jhang	3.8	2.0	32.2	83.1	0.0	3.9	1.9	0.0	0.0
Jhelum	4.7	4.0	46.8	84.9	0.0	5.1	2.3	0.0	1.1
Jiwani	13.0	11.5	107.9	49.1	0.0	1.3	1.3	0.3	6.0
Joharabad	4.3	3.0	29.5	84.2	0.0	5.1	4.4	0.0	0.3
Kakul	0.4	0.0	28.8	54.9	0.0	2.7	2.3	0.0	1.4
Kalam	-3.2	-4.5	0.3	61.5	0.0	3.4	2.3	0.0	0.0
Kalat	-6.2	-9.0	***	36.2	0.0	0.0	0.0	1.4	0.9
Karachi	10.4	10.0	103.8	43.4	0.0	2.4	3.4	0.0	4.0
Khanpur	5.3	4.0	54.1	76.8	0.0	6.4	1.9	0.6	0.3
Khuzdar	2.8	2.5	65.3	31.0	0.0	0.0	0.0	0.0	2.6
Kotli	3.2	2.0	***	70.1	0.0	2.0	2.9	0.0	0.3
Lahore	6.7	6.0	41.6	81.7	0.0	6.4	4.0	0.0	0.0
Larkana	8.3	5.8	74.9	66.6	0.0	1.6	2.7	0.6	0.3
Lasbella	6.1	3.0	94.6	44.0	0.0	2.7	1.4	0.6	1.1
Lower Dir	-0.6	-1.0	31.3	73.1	0.0	2.0	1.1	0.9	1.1
Malam Jabba	-1.7	-2.0	1.4	61.7	0.0	1.7	1.3	0.0	0.0
M.B Din	5.9	3.7	38.9	88.9	0.0	6.4	4.4	0.9	0.6
Mangla	3.8	2.2	41.5	80.5	0.0	3.9	2.3	0.0	0.0
Mir Khani	0.2	-1.5	35.4	41.4	0.0	2.1	2.4	1.6	0.4
Moinjodaro	5.7	2.0	73.8	72.9	0.0	2.6	1.7	0.4	2.3
Multan	5.8	4.8	46.4	84.8	0.0	4.6	1.7	0.6	1.1
Murree	0.9	-2.0	21.2	44.1	0.0	1.3	2.3	1.4	0.9
Muzaffarabad	0.9	-0.2	47.1	72.2	0.0	2.6	2.9	0.0	0.0

Nokkundi	2.0	-0.3	56.2	16.7	0.0	1.3	3.3	0.9	2.6
Noorpurthal	2.7	2.0	28.7	88.9	0.0	0.0	0.0	0.0	0.0
Okara	6.2	5.0	40.3	83.9	0.0	9.0	3.0	0.3	0.3
Padidan	6.3	4.5	68.9	68.3	0.0	1.3	2.0	1.1	1.1
Panjgur	1.5	0.5	46.4	45.9	0.0	0.9	1.0	8.6	8.3
Parachinar	-1.5	-2.6	***	59.7	0.0	3.3	4.0	2.9	3.6
Pasni	9.8	7.5	97.3	62.7	0.0	1.3	2.1	0.6	6.9
Peshawar	1.9	1.0	40.1	76.7	0.0	1.9	1.1	0.0	5.6
Quetta	-2.1	-5.4	12.6	24.0	0.0	2.4	2.6	0.0	0.9
R.Y.Khan	5.6	4.1	60.5	78.6	0.0	1.9	2.4	1.2	2.3
Rawalakot	-2.3	-3.3	30.6	64.7	1.0	1.3	2.7	0.0	0.0
Rohri	8.3	5.5	69.1	69.5	0.0	0.9	2.3	0.0	0.0
Rawalpindi	3.1	1.0	38.2	78.0	0.0	0.4	1.2	0.3	0.5
Sahiwal	4.2	2.0	32.1	89.9	0.0	9.0	3.1	0.3	0.3
Saidu Sharif	0.8	0.0	27.9	60.7	0.0	1.1	0.9	0.0	0.0
Sialkot	5.5	3.9	34.4	92.6	0.0	7.7	5.1	0.0	0.3
Sibbi	6.3	1.0	74.9	55.7	0.0	0.0	0.6	0.0	0.0
Skardu	-8.1	-10.8	***	65.3	0.0	4.3	3.7	0.0	0.0
Tandojam	14.1	4.0	68.5	64.0	0.0	0.6	0.6	0.2	0.2
USTA.M	5.4	4.5	57.0	76.0	0.0	0.0	0.0	0.0	0.4
Zhob	0.2	-1.0	43.8	30.1	0.0	0.7	1.1	5.0	4.3

*** Shows that data was not available.