

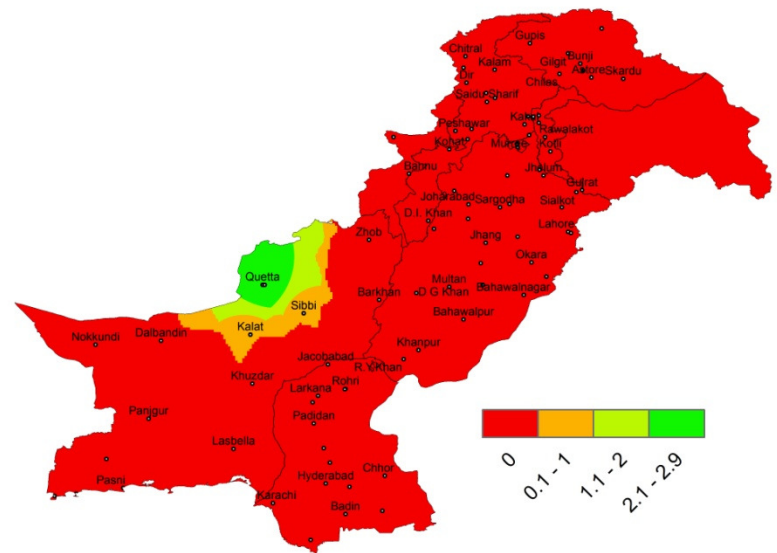
Weekly Weather and Crop Bulletin for Pakistan

**NATIONAL AGROMET CENTRE
PAKISTAN METEOROLOGICAL
DEPARTMENT SECTOR H-8/2,
ISLAMABAD.**

Phone: +92-51-9250592

Email: dirnamc@yahoo.com

**Rainfall Distribution (mm) during the
Previous week (from 25th Nov to 1st Dec, 2013)**



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

Highlights of Past Weather (from 25th Nov to 1st Dec, 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 isolated places in Balochistan.
- Mostly dry weather was reported in Sindh, Punjab, Khyber Pakhtunkhwa and Gilgit Baltistan & Kashmir regions.

Past Weather of Provinces (from 25th Nov to 1st Dec, 2013)

Punjab

Dry weather was reported in Punjab during the week. Weekly maximum and minimum temperatures recorded 27.3°C & 9.8°C respectively. For the present season average 95.3 growing degree days accumulated by the end of last week. Average relative humidity recorded 66.0% and wind speed in the morning/evening recorded 1.2/0.7 Knots. The lowest minimum temperature recorded 2.0°C at Murree.

Sindh

Dry weather was reported in Sindh during the week. Weekly maximum and minimum temperatures recorded 30.9°C & 14.4°C respectively. For the present season average 122.1 growing degree days accumulated by the end of last week. Average relative humidity recorded 58% and wind speed in the morning/evening recorded 1.0/2.6 Knots. The lowest minimum temperature recorded 9.6°C at Mithi.

Khyber Pakhtunkhwa

Dry weather was reported in Khyber Pakhtunkhwa during the week. Weekly maximum and minimum temperatures recorded 20.9°C & 4.3°C respectively. For the present season average 58.3 growing degree days accumulated by the end of last week. Average relative humidity recorded 56% and wind speed in the morning/evening recorded 1.7/1.6 Knots. The lowest minimum temperature recorded -4.0°C at Parachinar.

Balochistan

Light rainfall was reported at an isolated place in Balochistan during the week. Weekly maximum and minimum temperatures recorded 24.8°C & 9.5°C respectively. For the present season average 78.7 growing degree days accumulated by the end of last week. Average relative humidity recorded 45% and wind speed in the morning/evening recorded 1.5/2.5 Knots. The highest amount of rainfall reported at Quetta 3.0mm and lowest minimum temperature recorded -4.0°C at Kalat.

Gilgit Baltistan and Azad Jammu & Kashmir

Dry weather was reported in Gilgit Baltistan & Kashmir regions during the week. Weekly maximum and minimum temperatures recorded 19.2°C & 2.0°C respectively. For the present season average 39.9 growing degree days accumulated by the end of last week. Average relative humidity recorded 54% and wind speed in the morning/evening recorded 0.6/1.6 Knots. The lowest minimum temperature was recorded -7.7°C at Skardu.

**Past Weather for Major Agricultural-
Plains (from 25th Nov to 1st Dec, 2013)****Rawalpindi (Potohar region)**

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.0/0.8 Oktas while, average relative humidity observed 65%. Mean night time temperature recorded 4.5°C & for the present season 71.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/1.0 Knots.

Faisalabad (Central Punjab)

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.0/0.4 Oktas while, average relative humidity observed as 71%. Mean night time temperature recorded 12.5°C & for the present season 116.5 growing degree days accumulated by the end of last week.

Tandojam (Lower Singh)

Dry weather was reported during the week; however, average relative humidity observed as 62%. Mean night time temperature recorded 13.0°C & for the present season 123.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.4/0.3 Knots.

Quetta (Northern Balochistan)

Rainfall reported as 3.0mm during the week; however cloudiness in the morning/evening recorded 1.6/1.4 Oktas while, average relative humidity observed as 55%. Mean night time temperature recorded 0.4°C & for the present season 24.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.1/2.4 Knots.

Usta Muhammad (Eastern Balochistan)

Dry weather was reported during the week; however, average relative humidity observed as 71%. Mean night time temperature recorded 12.5°C & for the present season 116.5 growing degree days accumulated by the end of last week.

**Past Weather for Sub-Regional Agricultural
Plains (from 25th Nov to 1st Dec, 2013)****Rohri**

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.0/0.5 Oktas while, average relative humidity observed as 61%. Mean night time temperature recorded 0.5°C & for the present season 121.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/2.0 Knots.

Multan

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 65%. Mean night time temperature recorded 12.3°C & for the present season 106.9 growing degree days accumulated by the end of last week.

Lahore

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 63%. Mean night time temperature recorded 11.1°C & for the present season 99.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/1.1 Knots.

Zhob

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.0/1.3 Oktas while, average relative humidity observed as 43%. Mean night time temperature recorded 3.9°C & for the present season 42.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 5.0/5.0 Knots.

D.I. Khan

Dry weather was reported during the week; however, average relative humidity observed as 64%. Mean night time temperature recorded 8.4°C & for the present season 91.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/0.3 Knots.

Peshawar

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 1.0/2.3 Oktas while, average relative humidity observed as 71%. Mean night time temperature recorded 9.7°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 12.7/0.0 Knots.

Murree

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 48%. Mean night time temperature recorded 3.3°C & for the present season 37.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.7/0.6 Knots.

Kalam

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.9/1.0 Oktas while, average relative humidity observed as 55%. Mean night time temperature recorded -0.7°C.

Gilgit

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 2.7/1.4 Oktas while, average relative humidity observed as 71%. Mean night time temperature recorded -1.1°C & for the present season 27.3 growing degree days accumulated by the end of last week.

Skardu

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 2.3/1.3 Oktas while, average relative humidity observed as 64%. Mean night time temperature recorded -5.9°C & for the present season 42.0 growing degree days accumulated 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.

Northern Balochistan (Quetta)

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

Central Punjab (Faisalabad)

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

Wheat: V. Good condition at *Third Leaf* stage.

Lower Sindh (Tandojam)

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

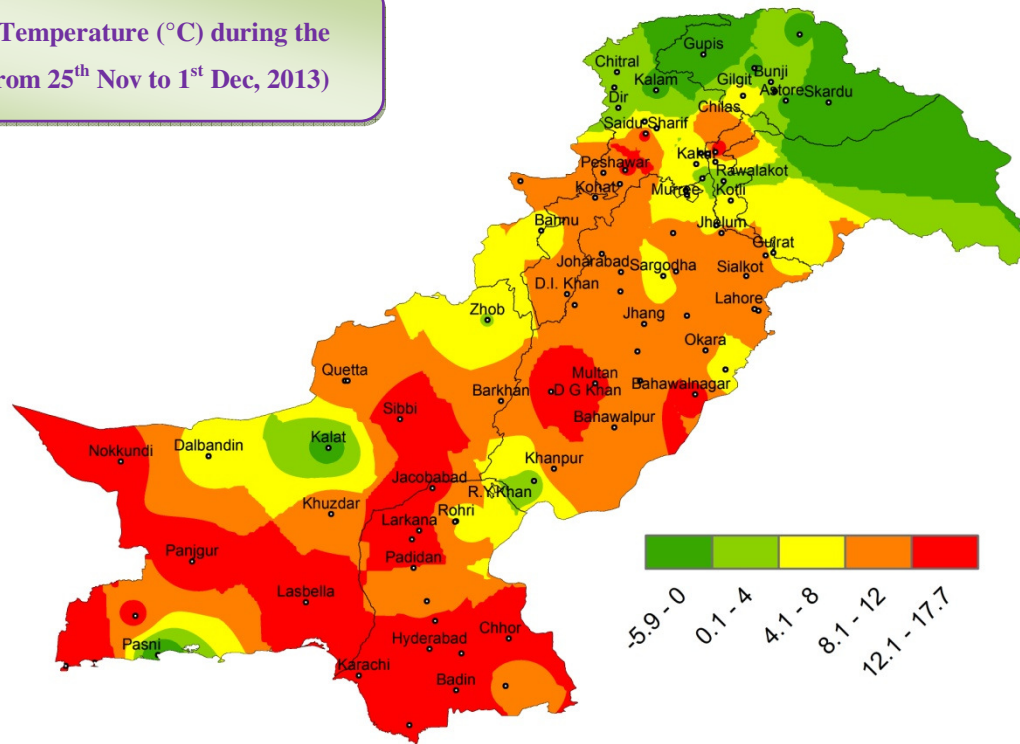
Wheat: Good condition at *Emergence* stage.

Eastern Balochistan (Usta Muhammad)

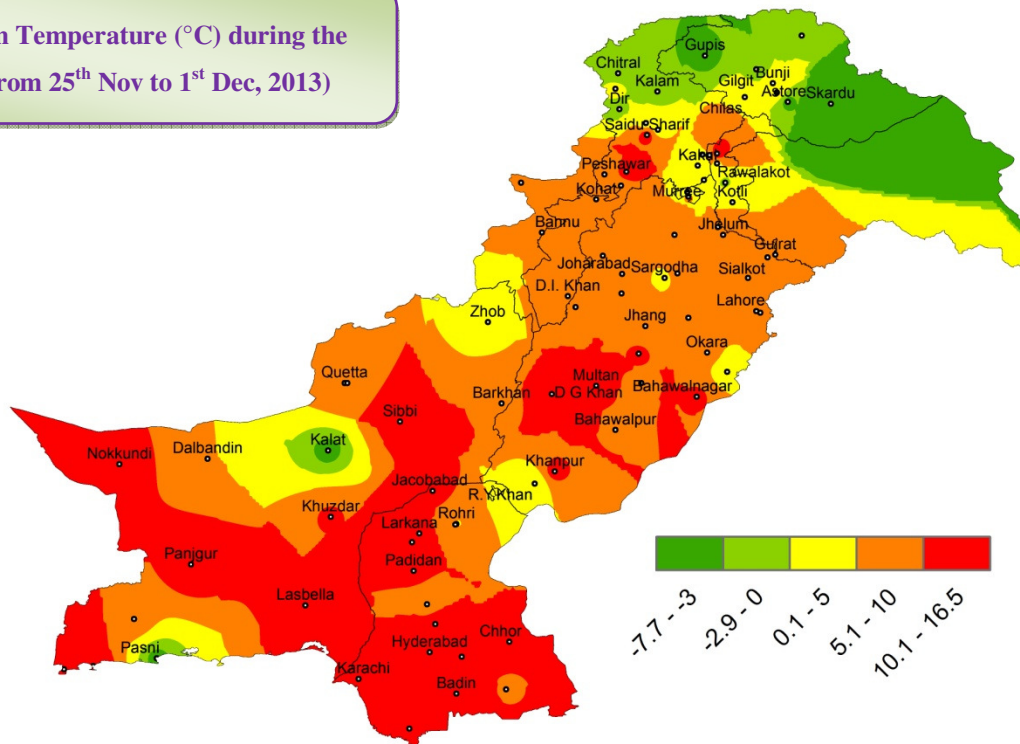
There is presently one crop (irrigated condition) grown in the fields of RMC Usta Muhammad.

Rice: Good condition at *Thrashing* stage.

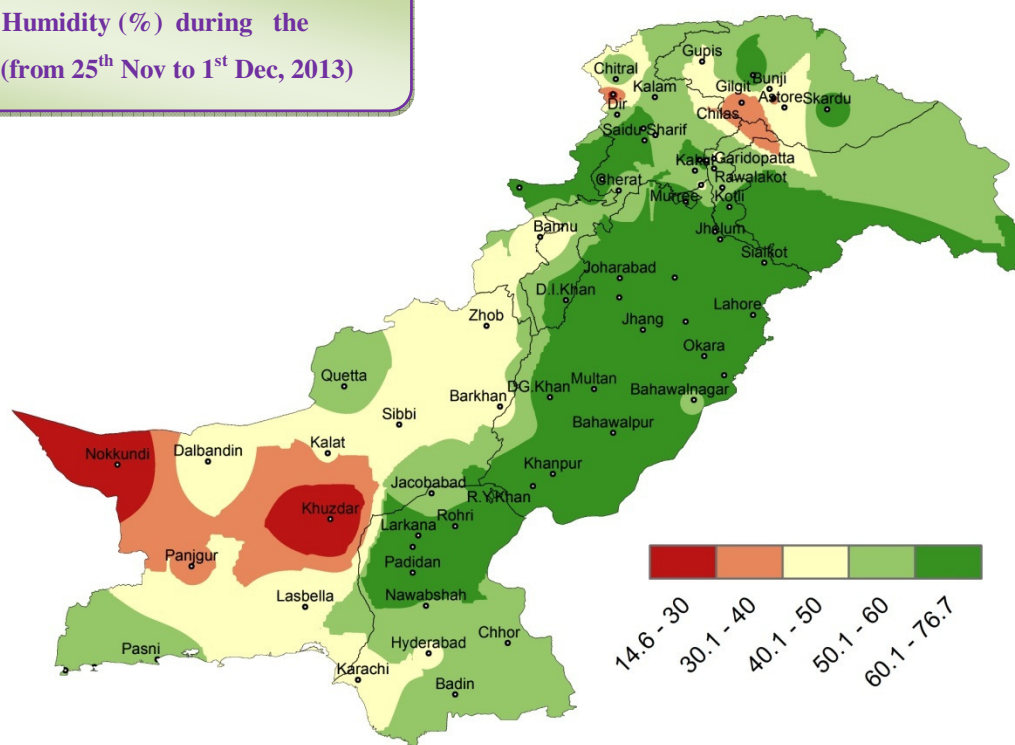
Mean Minimum Temperature ($^{\circ}\text{C}$) during the
Previous week (from 25th Nov to 1st Dec, 2013)



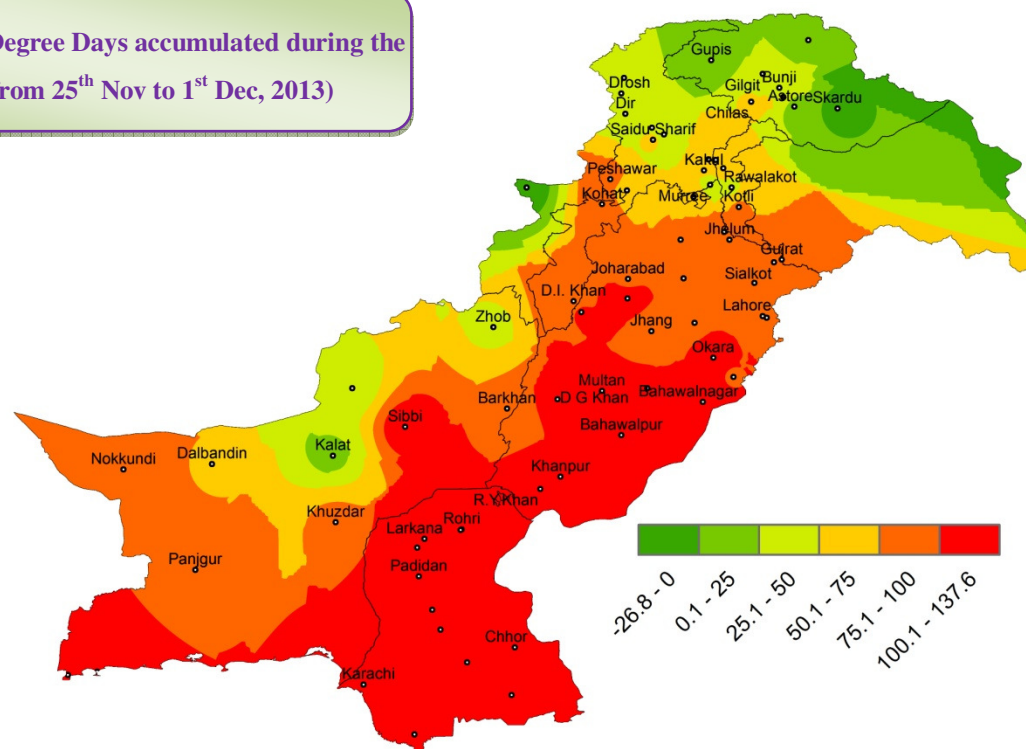
Lowest Minimum Temperature ($^{\circ}\text{C}$) during the
Previous week (from 25th Nov to 1st Dec, 2013)



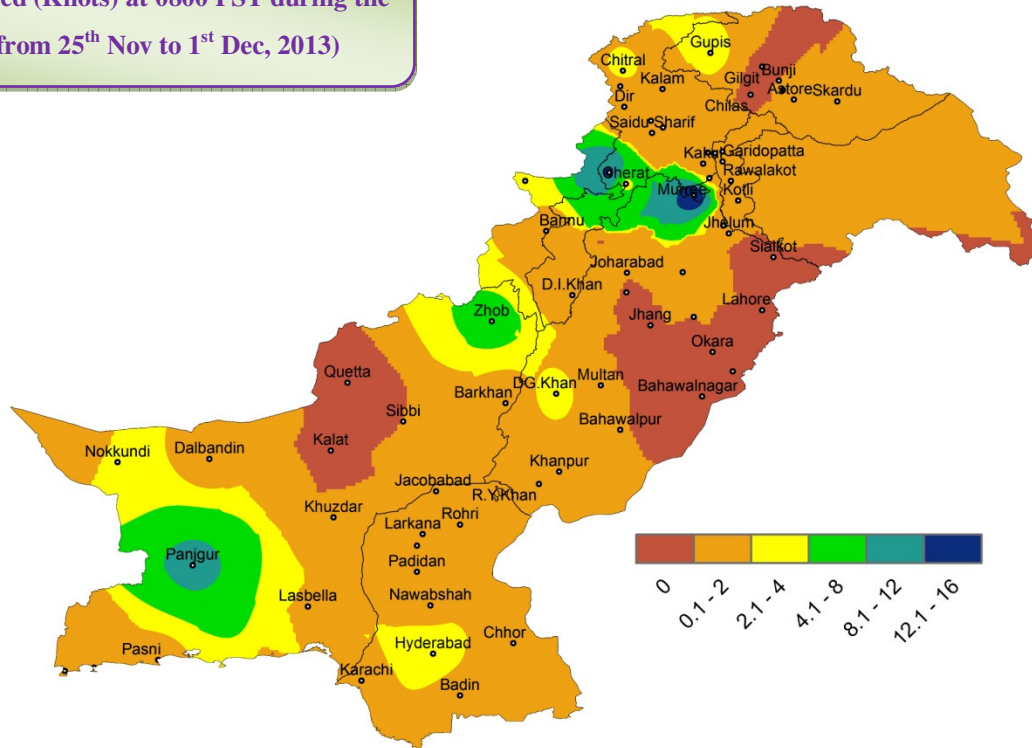
Mean Relative Humidity (%) during the
Previous week (from 25th Nov to 1st Dec, 2013)



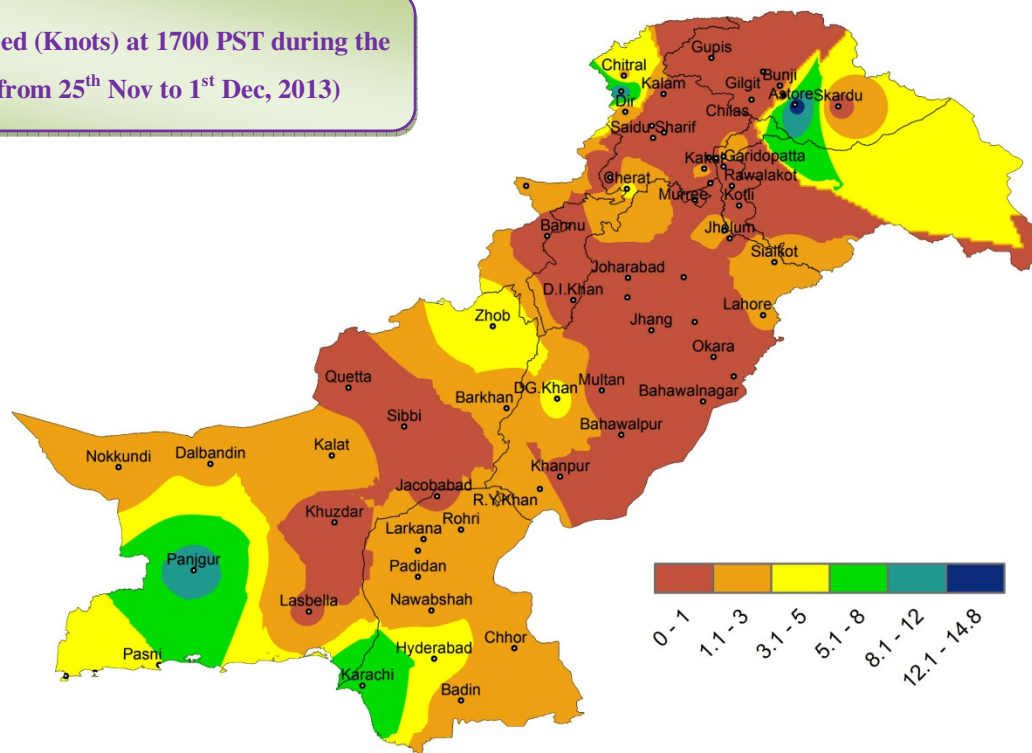
Total Growing Degree Days accumulated during the
Previous week (from 25th Nov to 1st Dec, 2013)



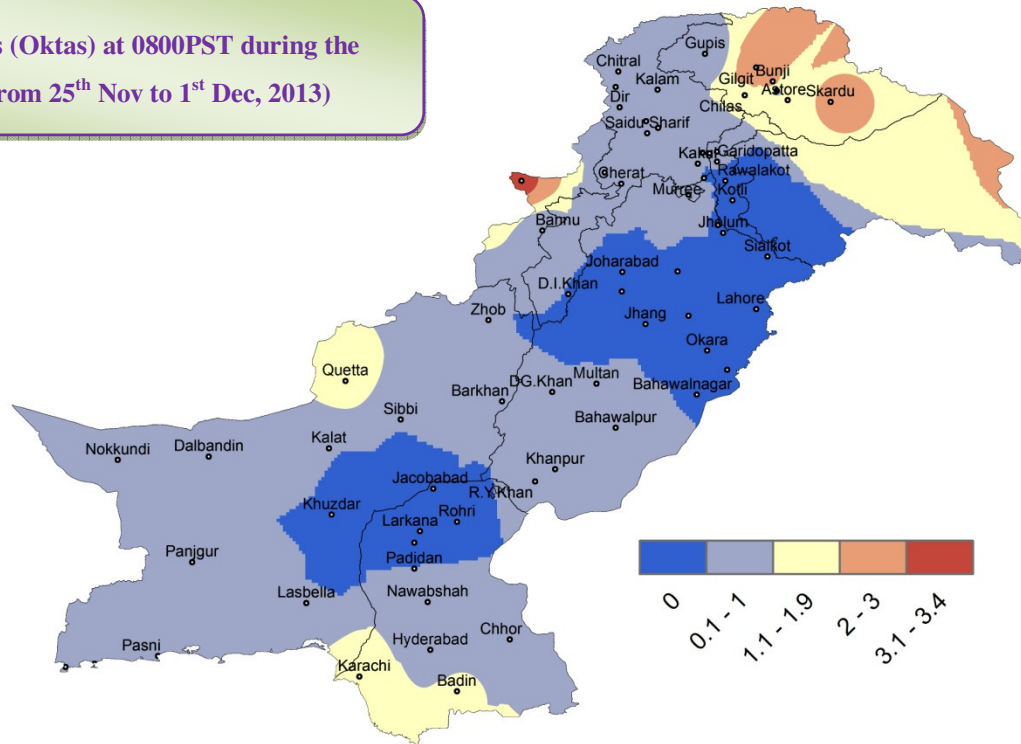
Mean Wind Speed (Knots) at 0800 PST during the
Previous week (from 25th Nov to 1st Dec, 2013)



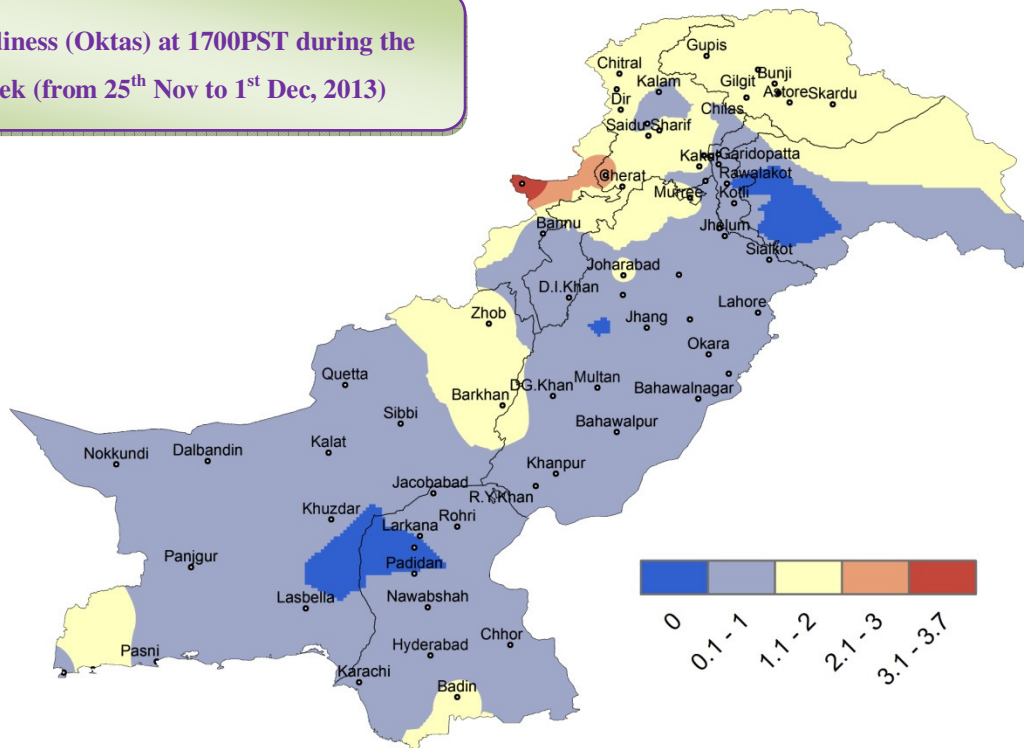
Mean Wind Speed (Knots) at 1700 PST during the
Previous week (from 25th Nov to 1st Dec, 2013)



Mean Cloudiness (Oktas) at 0800PST during the
Previous week (from 25th Nov to 1st Dec, 2013)



Mean Cloudiness (Oktas) at 1700PST during the
Previous week (from 25th Nov to 1st Dec, 2013)



Weekly Weather advisory for Farmers
(From 2nd to 8th December, 2013)

A shallow westerly wave is affecting upper parts of the country and likely to persist during next 24 hours followed by continental air over most parts of the country during the week. A fresh shallow westerly wave is expected to affect northern parts of the country during the weekend again.

Punjab including Islamabad

Cold and dry weather is expected in most parts of the province during the week. Misty/foggy conditions are expected to prevail over plain areas of Northeast Punjab (Gujranwala, Lahore and Sargodha divisions) on Tuesday and again during last three days of the week.

Khyber Pakhtunkhwa

Cold and dry weather (very cold in uppers parts) is expected in most parts of the province during the week. However, rain/thunderstorm with light snow over the hills may occur at a few places of Malakand division on Monday (today) and Saturday/Sunday. Shallow fog/misty conditions may prevail in Peshawar division during Friday and Saturday.

Balochistan

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

Sindh

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

Gilgit-Baltistan

Very cold and dry weather with partly cloudy conditions at times is expected in most parts of GB during the week. However, rain/thunderstorm

with light snow over the hills may occur at isolated places on Monday (today) and again during Friday to Sunday.

Kashmir

Very cold weather with partly cloudy conditions are expected in most parts of Kashmir during Monday/Tuesday and again from Friday to Sunday while very cold and dry weather would prevail during rest of the days.

Advises for Crops

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

Wheat: 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.

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 25th November to 1st December, 2013)**

Stations	Minimum/Night Temperature (°C)		Growing Degree Days	Relative Humidity (%)	Rainfall (mm)	Cloudiness (Oktas) 0800PST	Cloudiness (Oktas) 1700PST	Wind Speed (Knots) 0800PST	Wind Speed (Knots) 1700PST
	Mean	Lowest							
Astore	-1.9	-4.4	2.9	40	0.0	1.0	1.1	1.1	15.0
Badin	15.4	15.0	***	54	0.0	1.2	1.2	0.3	1.0
Bahawalnagar	13.4	11.0	113.5	59	0.0	0.0	0.4	0.0	0.0
Bahawalpur	11.5	9.7	111.5	62	0.0	0.1	0.3	0.0	0.9
Balakot	4.1	3.1	58.4	62	0.0	0.3	1.6	0.0	0.0
Bannu	7.1	5.0	***	42	0.0	0.3	0.5	0.0	0.0
Barkhan	9.3	8.5	80.8	47	0.0	0.3	1.7	0.3	1.0
Bunji	3.8	2.8	42.7	49	0.0	2.3	1.3	0.0	0.3
Cherat	9.5	8.5	60.5	51	0.0	0.0	1.4	3.4	3.4
Chhor	12.0	10.0	124.4	58	0.0	0.7	0.3	0.0	1.3
Chilas	5.9	5.0	54.0	32	0.0	1.4	1.0	0.0	0.0
Chitral	0.3	-1.0	35.2	58	0.0	1.0	1.6	2.9	2.3
DG.Khan	13.4	12.8	110.7	64	0.0	0.0	0.3	2.9	3.7
D.I.Khan	8.4	6.2	91.4	64	0.0	0.0	0.0	0.6	0.3
Dalbandin	6.2	5.0	73.2	46	0.0	0.2	0.3	1.0	2.7
Dir	0.4	-0.5	38.5	59	0.0	0.9	1.4	0.0	1.1
Drosh	2.2	0.5	36.6	26	0.0	0.3	1.4	0.6	10.9
Faisalabad	9.7	7.0	98.2	55	0.0	0.0	0.4	0.0	0.2
Garidopatta	4.0	3.0	66.0	59	0.0	0.0	0.0	0.0	0.0
Gawader	15.4	14.0	123.5	57	0.0	0.0	1.4	0.0	3.4
Gilgit	-1.1	-3.0	27.3	71	0.0	2.7	1.4	0.0	0.0
Gupis	-3.3	-4.0	4.3	49	0.0	0.0	1.3	2.9	0.3

Hyderabad	17.8	16.0	***	49	0.0	0.5	0.5	3.7	5.0
Islamabad	5.3	4.0	71.8	71	0.0	0.3	1.3	16.0	0.6
Jacobabad	14.7	13.0	***	58	0.0	0.0	0.3	0.3	0.3
Jhang	9.2	7.0	90.3	69	0.0	0.0	0.0	0.0	0.0
Jhelum	8.7	7.2	91.1	68	0.0	0.0	0.0	0.0	0.6
Jiwani	17.0	16.0	126.5	51	0.0	0.0	0.8	1.0	4.3
Joharabad	9.5	8.0	95.8	72	0.0	0.0	1.3	0.0	0.3
Kakul	4.2	3.5	53.1	56	0.0	0.0	1.1	0.0	1.4
Kalam	-0.7	-1.7	***	55	0.0	0.9	1.0	0.0	0.0
Kalat	-1.5	-4.0	16.8	41	0.0	0.0	0.8	0.0	2.3
Karachi	17.1	16.5	137.7	48	0.0	1.8	0.7	1.3	7.7
Khanpur	12.2	11.7	103.9	68	0.0	0.7	0.6	0.3	0.6
Khuzdar	11.0	10.5	85.0	15	0.0	0.0	0.0	0.0	0.0
Kotli	6.9	5.0	80.1	64	0.0	0.0	0.0	0.6	0.0
Lahore	11.1	9.5	99.2	63	0.0	0.0	0.3	0.0	1.1
Larkana	14.8	13.5	120.6	61	0.0	0.0	0.0	0.7	2.7
Lasbella	14.0	12.0	***	49	0.0	0.0	0.0	2.0	0.8
Lower Dir	3.2	2.0	48.5	69	0.0	0.1	0.4	0.3	0.9
Malam Jabba	3.6	2.5	34.0	49	0.0	0.6	1.3	1.7	0.0
M.B Din	10.1	8.3	90.3	77	0.0	0.0	0.4	0.3	0.3
Mangla	7.3	5.0	84.6	61	0.0	0.0	0.7	0.0	1.7
Mir Khani	3.3	2.6	54.5	39	0.0	0.9	2.0	0.0	1.2
Moinjodaro	11.9	11.0	109.5	62	0.0	0.0	0.0	1.3	1.4
Multan	12.3	10.5	106.9	65	0.0	0.0	1.0	0.0	0.0
Murree	3.3	2.0	37.4	48	0.0	0.0	0.3	1.7	0.6
Muzaffarabad	5.9	5.0	69.5	65	0.0	0.6	1.0	0.6	0.0

Nokkundi	13.1	12.0	89.8	21	0.0	0.0	0.6	2.0	1.7
Noorpurthal	10.4	8.9	108.8	70	0.0	0.0	0.0	0.0	0.0
Okara	8.9	6.5	106.3	68	0.0	0.0	0.0	0.0	0.0
Padidan	12.0	10.5	117.3	66	0.0	0.0	0.0	0.7	1.0
Panjgur	14.4	13.5	75.8	39	0.0	0.3	0.9	9.0	8.9
Parachinar	9.9	8.5	***	68	0.0	3.4	3.7	3.0	3.0
Pasni	-3.7	-4.0	***	52	0.0	0.3	0.8	1.3	5.0
Pattan	17.5	15.5	***	43	0.0	0.0	0.6	1.7	2.3
Peshawar	9.7	6.0	83.7	71	0.0	1.0	2.3	12.7	0.0
Quetta	1.5	0.4	***	55	3.0	1.6	1.4	1.1	2.4
R.Y.Khan	1.9	0.0	116.6	66	0.0	0.0	0.3	0.3	1.4
Rawalakot	0.5	-0.5	42.9	58	0.0	0.0	0.0	0.0	0.0
Rohri	0.5	-0.3	121.0	61	0.0	0.0	0.5	0.9	2.0
Saidu Sharif	5.6	4.5	71.3	65	0.0	0.0	0.0	0.6	1.0
Sialkot	4.7	2.0	98.2	67	0.0	0.0	0.4	0.0	0.0
Sibbi	15.0	13.5	55.3	64	0.0	0.4	1.4	0.0	0.0
Skardu	-5.9	-7.7	42.0	64	0.0	2.3	1.3	0.0	0.0
Zhob	3.9	2.0	42.0	43	0.0	0.0	1.3	5.0	5.0

*** Shows that data was not available.