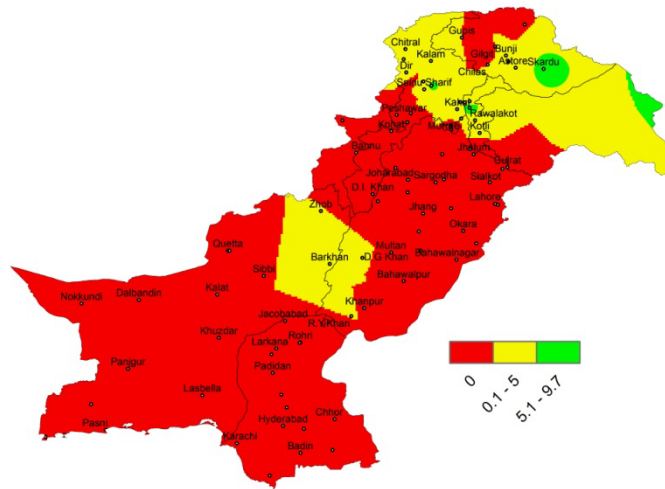


Weekly Weather and Crop Bulletin for Pakistan

**NATIONAL AGROMET
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**Rainfall Distribution (mm) during the
Previous Week (from 23rd to 29th December, 2013)**

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Highlights of Past Weather (from 23rd to 29th December, 2013)

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

- Dry and cold weather reported in Balochistan.
- Light rainfall reported in Khyber Pakhtunkhwa, Gilgit Baltistan & Kashmir regions..
- Dry and cold weather reported in Sindh and Punjab.

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

Past Weather of Provinces (from 23rd to 29th December, 2013)

Punjab

Dry weather was reported in Punjab during the week. Weekly maximum and minimum temperatures recorded 19.4°C & 3.2°C respectively. For the present season average 44.3 growing degree days accumulated by the end of last week. Average relative humidity recorded 66% and wind speed in the morning/evening recorded 0.5/0.9 Knots. The lowest minimum temperature was recorded -4.0°C at Murree.

Sindh

Dry weather was reported in Sindh during the week. Weekly maximum and minimum temperatures recorded 22.10°C & 6.0°C respectively. For the present season average 65.1 growing degree days accumulated by the end of last week. Average relative humidity recorded 60% and wind speed in the morning/evening recorded 1.3/2.7 Knots. The lowest minimum temperature was recorded 0.5°C at Mithi.

Khyber Pakhtunkhwa

Light rainfall reported in Khyber Pakhtunkhwa province during the week. Weekly maximum and minimum temperatures recorded 13.2°C & -0.7°C respectively. For the present season average 4.0 growing degree days accumulated by the end of last week. Average relative humidity recorded 60% and wind speed in the morning/evening recorded 1.3/2.2 Knots. The highest amount of rainfall was reported at Malamjaba 7.0mm and lowest minimum temperature recorded -10.5°C at Parachinar.

Balochistan

Dry weather was reported in Balochistan during the week. Weekly maximum and minimum temperatures recorded 16.4°C & 0.6°C respectively. For the present season average 62.3 growing degree days accumulated by the end of last week. Average relative humidity recorded 42% and wind speed in the morning/evening recorded 1.8/4.3 Knots. During the previous week highest amount of rainfall reported at Dalbandin 0.8mm and lowest minimum temperature recorded -14.0°C at Kalat.

Gilgit Baltistan and Azad Jammu & Kashmir

Light rainfall reported in Gilgit Baltistan & Kashmir regions during the week. Weekly maximum and minimum temperatures recorded 10.9°C & 2.0°C respectively. For the present season average 24.0 growing degree days accumulated by the end of last week. Average relative humidity recorded 62% and wind speed in the morning/evening recorded 0.6/0.8 Knots. During the previous week highest amount of rainfall reported at Garidopatta 10.0mm and lowest minimum temperature recorded -9.6°C at Skardu.

Past Weather for Major Agricultural Plains
(from 23rd to 29th December, 2013)

Rawalpindi (Potohar region)

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.5/0.8 Oktas while, average relative humidity observed 67%. Mean night time temperature recorded 1.4°C & for the present season 31.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.7/1.3 Knots.

Faisalabad (Central Punjab)

Dry weather was reported during the week; while average relative humidity observed as 53%. Mean night time temperature recorded 2.9°C & for the present season 48.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.2/0.7 Knots.

Tandojam (Lower Singh)

Dry weather and no cloudiness were reported during the week; while, average relative humidity observed as 59%. Mean night time temperature recorded 6.6°C & for the present season 62.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.5/1.5 Knots.

Quetta (Northern Balochistan)

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.3/0.3 Oktas while, average relative humidity observed as 45%. Mean night time temperature recorded -4.6°C & for the present season -29.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.2/3.8 Knots.

Usta Muhammad (Eastern Balochistan)

Dry weather was reported during the week; while, average relative humidity observed as 72%. Mean night time temperature recorded 4.0°C & for the present season 53.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.1/0.0 Knots.

Past Weather for Sub-Regional Agricultural Plains (from 23rd to 29th December, 2013)

Rohri

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.5/0.4 Oktas while, average relative humidity observed as 56%. Mean night time temperature recorded 6.1°C & for the present season 60 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/1.7 Knots.

Multan

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.3/0.7 Oktas while, average relative humidity observed as 62%. Mean night time temperature recorded 4.9°C & for the present season 53.6 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.1/1.1 Knots.

Lahore

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.5/0.3 Oktas while, average relative humidity observed as 64%. Mean night time temperature recorded 4.3°C & for the present season 45.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.7/2.0 Knots.

Zhob

Dry weather was reported during the week; while, average relative humidity observed as 45%. Mean night time temperature recorded -2.1°C & for the present season -6.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.7/4.7 Knots.

D.I. Khan

Dry weather was reported during the week; while, average relative humidity observed as 60%. Mean night time temperature recorded 1.7°C & for the present season 41.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/1.4 Knots.

Peshawar

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 2.1/0.9 Oktas while, average relative humidity observed as 60%. Mean night time temperature recorded 2.0°C & for the present season 37.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.9 Knots.

Murree

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 3.2/0.1 Oktas while, average relative humidity observed as 67%. Mean night time temperature recorded -1.4°C & for the present season -12.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.3/0.9 Knots.

Kalam

Rainfall reported as 3.0mm during the week; however cloudiness in the morning/evening recorded 1.3/6.0 Oktas while, average relative humidity observed as 87%. Mean night time temperature recorded -5.4°C &

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 4.2/5.3 Oktas while, average relative humidity observed as 64%. Mean night time temperature recorded -4.2°C .

Skardu

Rainfall reported as 7.0mm during the week; however cloudiness in the morning/evening recorded 7.0/5.9 Oktas while, average relative humidity observed as 78%. Mean night time temperature recorded -7.2°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: Good condition and *Tillering* stage completed

Lower Sindh (Tandojam)

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

Wheat (PD-1): Good condition at *Tillering* 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.

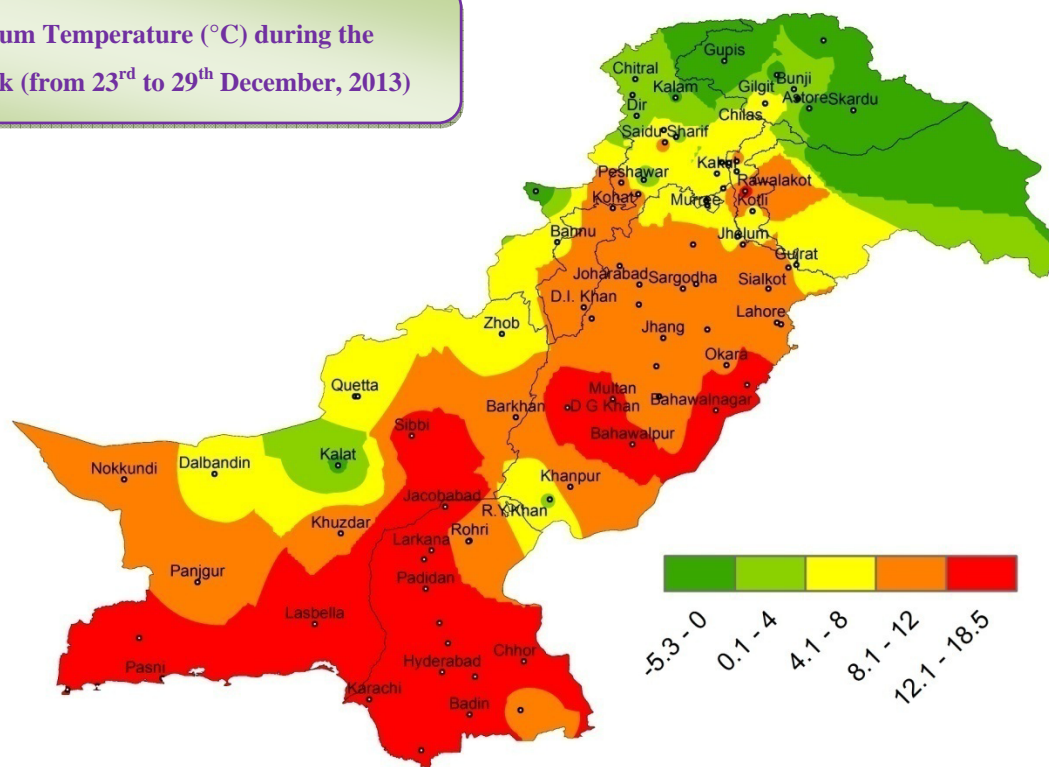
Eastern Balochistan (Usta Muhammad)

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

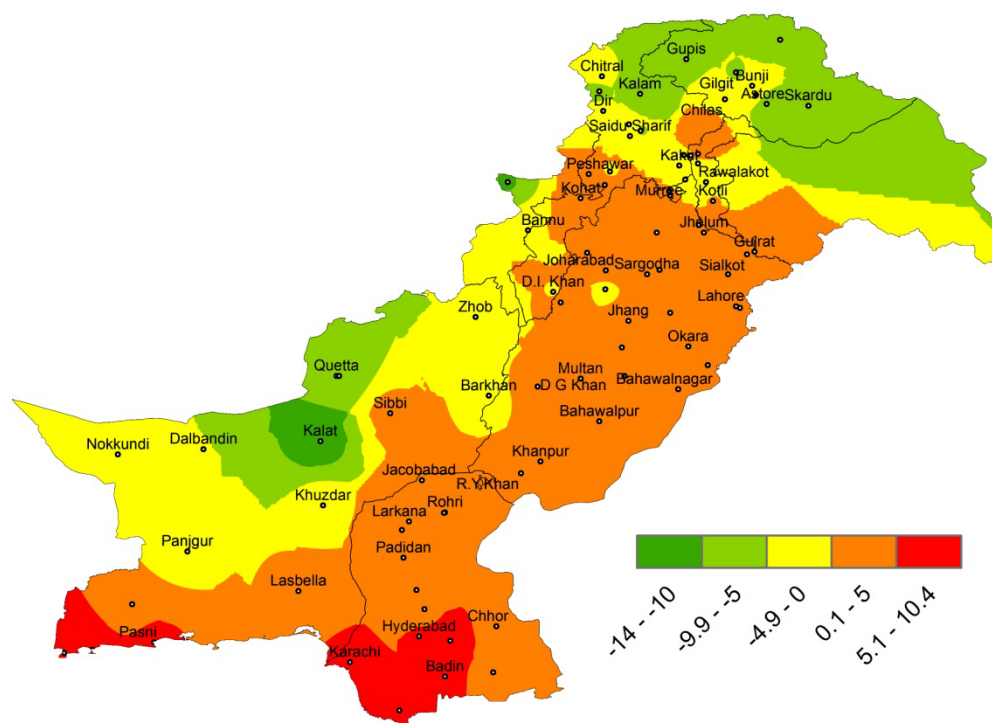
Wheat: Good condition at *Emergence* stage.

Gilgit

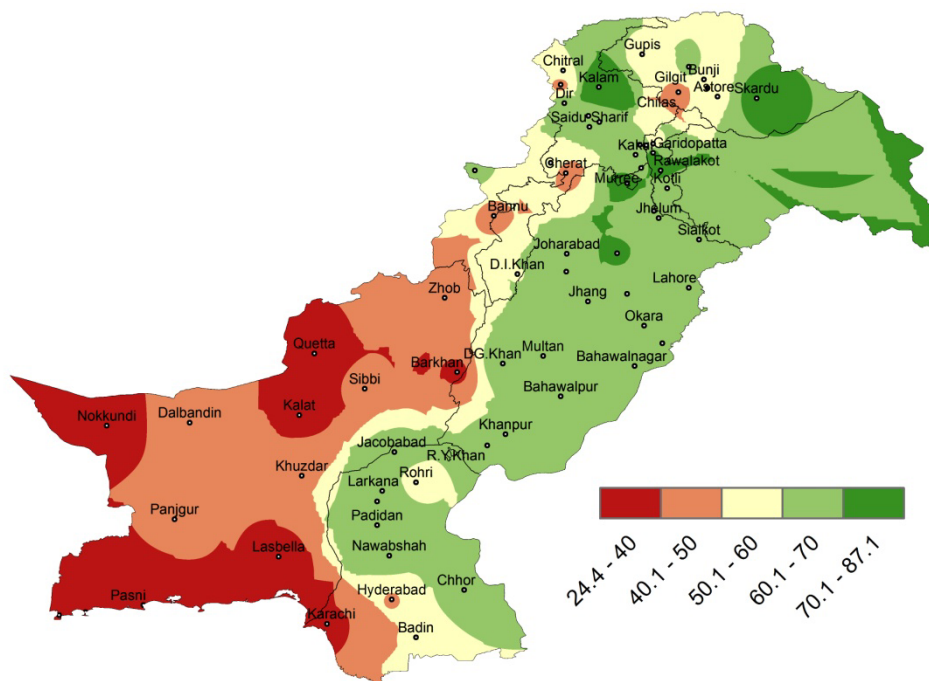
Mean Minimum Temperature ($^{\circ}\text{C}$) during the
Previous week (from 23rd to 29th December, 2013)



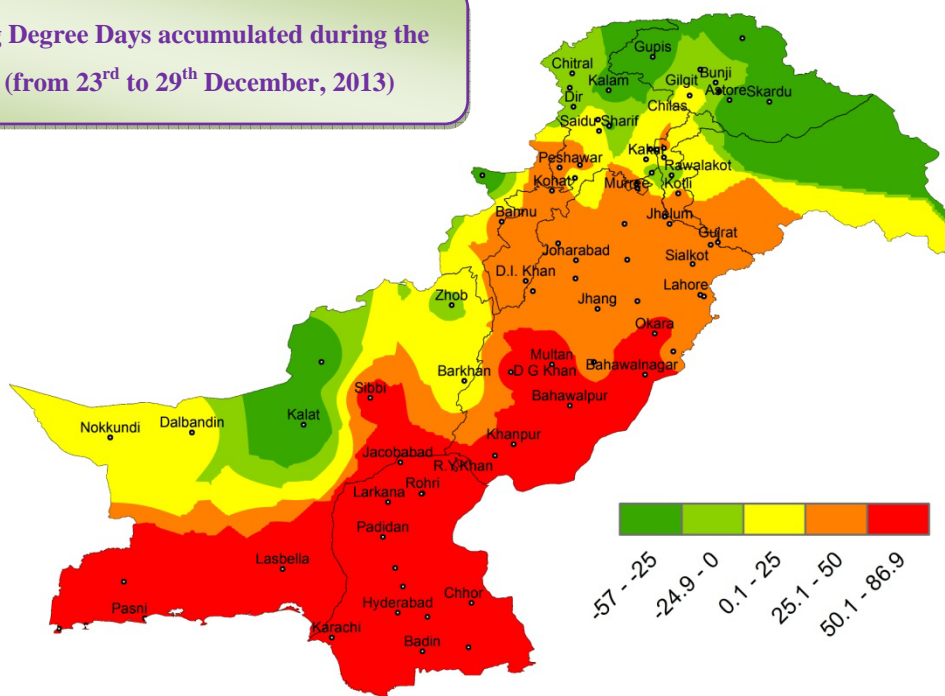
Lowest Minimum Temperature ($^{\circ}\text{C}$) during the
Previous week (from 23rd to 29th December, 2013)



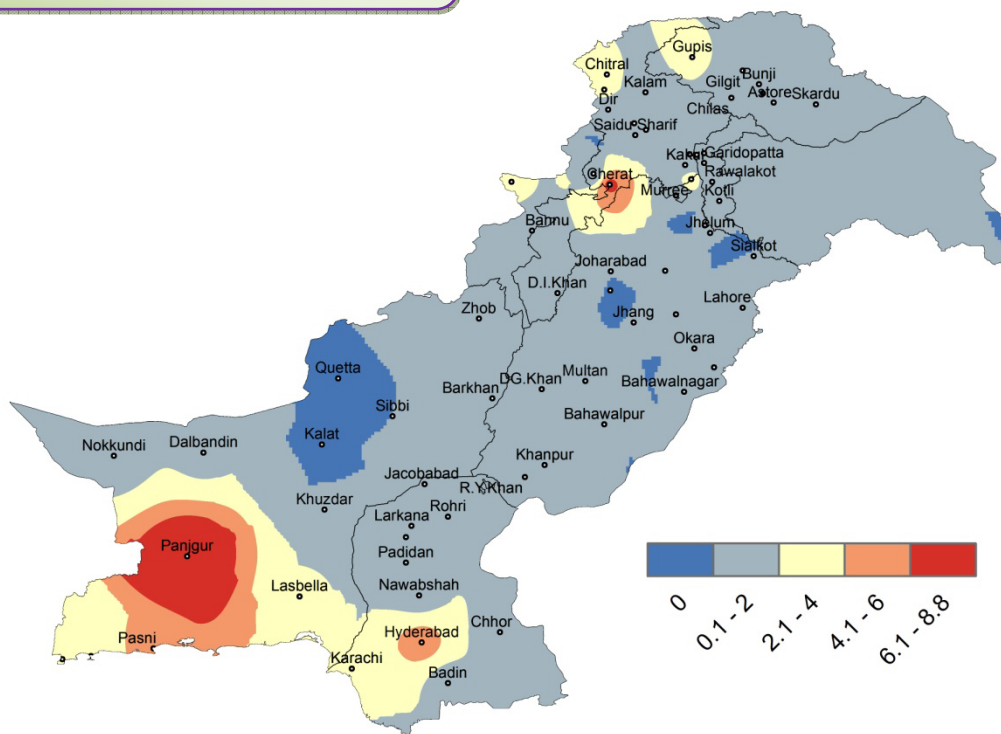
Mean Relative Humidity (%) during the
Previous week (from 23rd to 29th December, 2013)



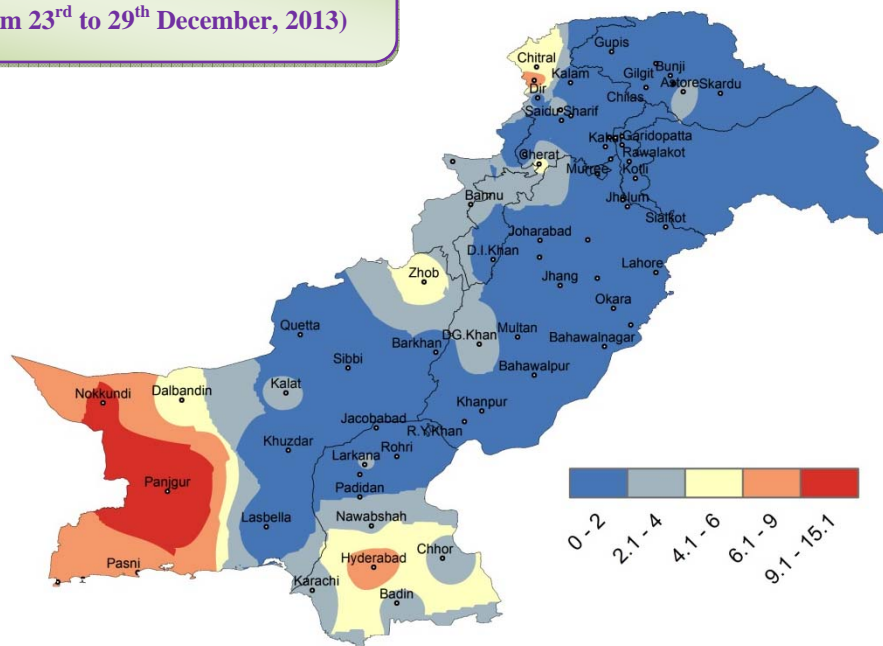
Total Growing Degree Days accumulated during the
Previous week (from 23rd to 29th December, 2013)



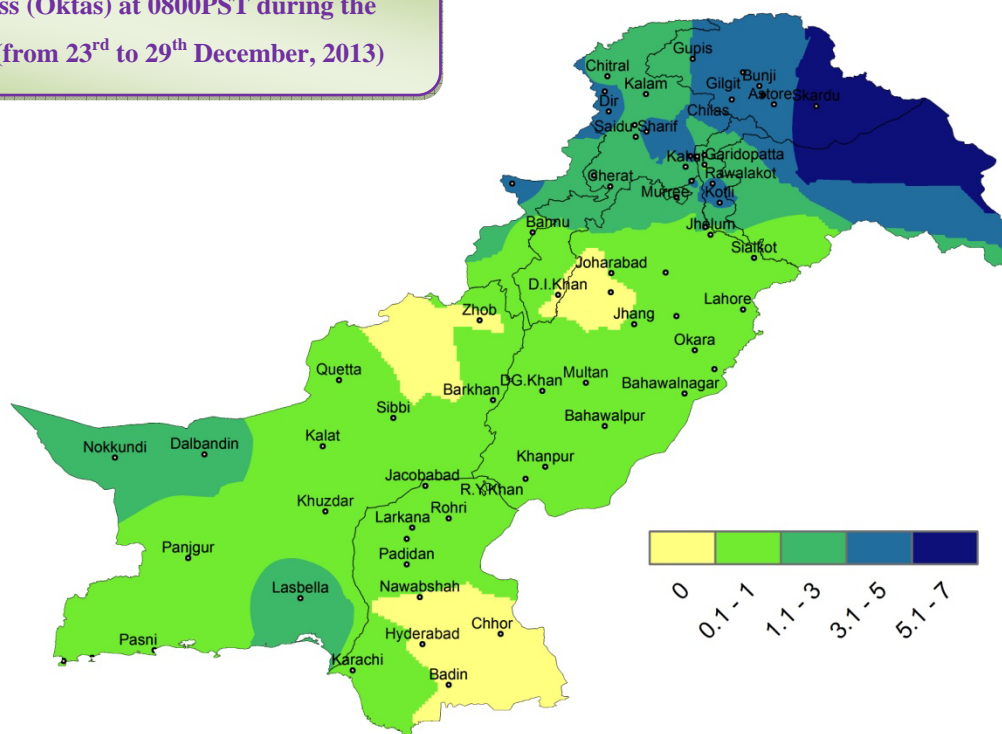
Mean Wind Speed (Knots) at 0800 PST during the
Previous week (from 23rd to 29th December, 2013)



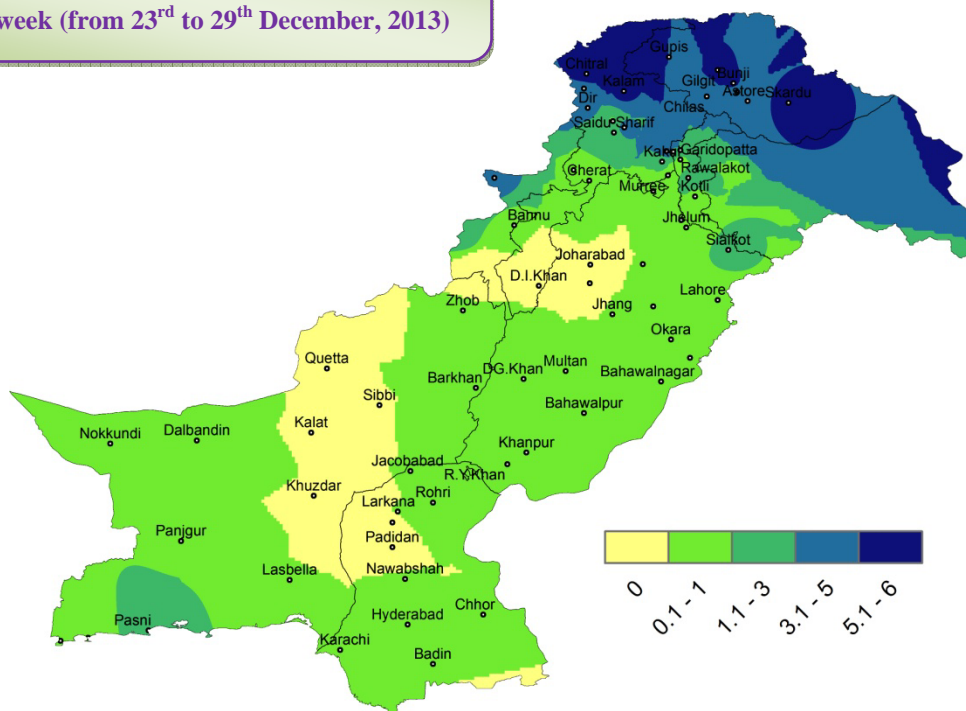
Mean Wind Speed (Knots) at 1700 PST during the
Previous week (from 23rd to 29th December, 2013)



Mean Cloudiness (Oktas) at 0800PST during the
Previous week (from 23rd to 29th December, 2013)



Mean Cloudiness (Oktas) at 1700PST during the
Previous week (from 23rd to 29th December, 2013)



Weekly Weather advisory for Farmers**(From 30th Dec, 2013 to 5th Jan, 2014)**

A westerly wave is prevailing over Afghanistan and adjoining areas of Pakistan, which is likely to move eastwards and will affect upper parts of the country during tonight and Tuesday.

Continental air would prevail over most parts of the country during rest days of the week. A fresh shallow westerly is also expected to affect extreme northern parts of the country during the weekend.

Punjab including Islamabad

Light rain is expected at scattered places of Gujranwala, Lahore and Rawalpindi divisions while, at isolated places in Sargodha divisions and Islamabad during tonight and Tuesday. Snowfall is also expected at scattered places over the hills of Murree and surrounding on Tuesday.

Cold and dry weather is expected in most parts of the province during rest days of the week. Morning shallow fog/mist is expected to prevail over isolated places in the plain of Punjab during second half of the week. Very cold weather conditions would continue during next 3 days and likely to abate thereafter.

Khyber Pakhtunkhwa

Light rain (with snowfall over the hills) is expected at scattered places of Hazara division while, at isolated places in Malakand, Peshawar, Kohat divisions during tonight and Tuesday.

Cold (very cold in upper parts) and dry weather is expected in most parts of the province during rest days of the week. However, light rain (with light snowfall over the hills) is also expected at isolated places in Malakand division during the weekend. Morning fog is expected to prevail over Peshawar division during second half of the week.

Balochistan

Mainly cold (very cold in North Balochistan) 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 division) during mid and second half of the week. Cold weather conditions would continue during next 3 days and likely to abate thereafter.

Gilgit-Baltistan

Very cold and mostly cloudy weather conditions with chances of light rain with snowfall over the hills is expected at isolated places of GB on Monday (evening/night), Tuesday and again during the weekend. Very cold and dry weather is expected during rest days of the week.

Kashmir

Light rain (with snowfall over the hills) is expected at scattered places of Kashmir during tonight and Tuesday. Very cold and dry weather is expected in most parts of Kashmir during rest days of the week.

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 23rd to 29th 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	-7.6	-9.0	-50.0	58	0.0	4.3	4.4	1.7	3.1
Badin	7.9	6.5	***	51	0.0	0.0	0.0	1.0	3.3
Bahawalnagar	5.9	4.5	56.7	62	0.0	0.7	0.4	0.0	1.1
Bahawalpur	5.0	4.3	56.9	63	0.0	0.3	0.0	0.0	0.3
Balakot	0.7	-0.6	22.8	62	2.4	3.7	4.6	0.0	0.6
Bannu	0.1	-0.4	32.7	47	0.0	0.3	0.0	0.3	2.3
Barkhan	-1.4	-2.5	1.5	38	0.8	0.0	0.4	1.3	1.1
Bunji	-0.2	-2.2	7.6	54	0.0	4.8	5.7	0.3	0.6
Cherat	3.1	2.5	12.8	45	0.0	2.0	0.3	6.7	4.6
Chhor	4.0	1.4	***	69	0.0	0.0	0.0	1.0	3.7
Chilas	1.4	0.0	11.5	46	0.0	4.5	3.9	0.0	0.6
Chitral	-1.3	-3.8	***	60	1.4	2.7	5.7	2.3	4.9
DG.Khan	5.4	3.8	55.6	70	0.0	0.3	0.4	1.3	3.1
D.I.Khan	1.7	-0.4	41.1	60	0.0	0.0	0.0	0.3	1.4
Dir	-2.4	-4.0	***	67	0.0	4.0	3.7	0.0	1.1
Drosh	-4.0	-6.1	***	45	0.1	3.2	4.6	2.7	8.1
Faisalabad	2.9	1.5	44.5	53	0.0	0.0	0.0	0.2	0.7
Garidopatta	-2.4	-3.0	20.3	76	10.0	0.7	0.0	0.0	0.0
Gawader	10.6	8.0	81.5	24	0.0	0.8	0.4	2.5	6.7
Gilgit	-4.2	-6.0	***	64	0.0	4.2	5.3	0.0	0.0
Gupis	-4.4	-7.0	***	56	0.0	3.0	5.0	3.0	0.9
Hyderabad	7.9	5.5	65.3	49	0.0	0.0	0.4	5.0	8.0
Islamabad	1.2	0.0	32.3	73	0.0	1.2	0.0	0.0	0.6
Jacobabad	4.5	2.5	56.3	65	0.0	0.5	0.0	0.3	1.4
Jhang	2.2	1.7	46.7	68	0.0	0.0	0.0	0.0	0.0
Jhelum	2.6	0.6	45.2	63	0.0	0.3	0.0	0.0	0.6
Jiwani	10.2	9.0	86.9	35	0.0	0.8	0.9	2.7	6.3
Joharabad	2.9	2.0	43.6	67	0.0	0.0	0.0	0.0	0.9
Kakul	-1.2	-2.0	7.5	64	0.1	2.2	1.6	0.3	0.6
Kalam	-5.4	-7.5	***	87	3.0	1.3	6.0	0.0	0.0
Kalat	-11.4	-14.0	-50.0	37	0.0	0.8	0.0	0.0	2.3
Karachi	9.3	6.0	77.0	37	0.0	1.0	0.3	2.0	2.9

Khanpur	3.1	1.5	51.4	64	0.0	0.0	0.3	0.0	0.9
Khuzdar	0.3	-2.0	33.2	47	0.0	0.0	0.0	0.0	0.7
Kotli	2.7	0.5	38.6	61	0.0	3.2	0.9	0.5	1.4
Lahore	4.3	2.3	45.4	64	0.0	0.5	0.3	0.7	2.0
Larkana	6.3	5.0	59.6	65	0.0	0.5	0.0	0.7	2.3
Lasbella	4.9	1.5	82.1	35	0.0	1.7	0.0	2.7	0.6
Lower Dir	-0.6	-3.0	18.3	63	0.0	1.8	0.7	1.3	3.4
Malam Jabba	-4.3	-6.0	***	64	7.0	4.3	4.0	1.3	0.0
Mandibahudin	3.8	2.5	43.1	71	0.0	0.3	0.0	0.7	0.9
Mangla	1.7	0.0	40.4	64	0.0	1.2	0.4	0.0	0.0
Mir Khani	-1.0	-2.5	0.6	56	0.1	2.8	3.0	1.7	1.1
Moinjodaro	2.5	1.0	53.8	70	0.0	0.3	0.0	0.7	1.1
Multan	4.9	3.5	53.6	62	0.0	0.3	0.7	0.7	1.1
Murree	-1.4	-4.0	-12.3	67	0.0	3.2	0.1	3.3	0.9
Muzaffarabad	1.6	-1.0	30.8	66	4.0	3.0	2.6	0.8	1.1
Nokkundi	-0.5	-1.1	25.0	31	0.0	1.6	0.7	0.8	9.1
Noorpurthal	1.0	-1.0	49.6	68	0.0	0.0	0.0	0.0	0.0
Okara	4.6	3.5	53.9	65	0.0	0.0	0.0	0.0	0.3
Padidan	6.1	3.5	58.3	66	0.0	0.0	0.0	0.3	2.0
Panjgur	-1.0	-2.5	9.5	47	0.0	0.0	0.9	8.8	15.1
Parachinar	-9.7	-10.5	***	62	0.0	4.4	4.6	3.0	3.0
Pasni	9.8	7.5	82.3	27	0.0	0.0	1.6	5.2	7.1
Pattan	5.1	4.0	34.9	50	0.0	2.1	3.1	0.3	0.3
Peshawar	2.0	0.3	37.0	60	0.0	2.1	0.9	0.0	0.9
Quetta	-4.6	-7.5	-29.3	45	0.0	0.3	0.3	3.2	3.8
R.Y.Khan	4.0	3.0	56.6	64	0.0	0.3	0.0	0.3	0.3
Rawalakot	-3.2	-4.5	***	74	0.1	3.4	1.7	0.0	0.3
Rohri	6.1	4.0	60.0	56	0.0	0.5	0.4	0.3	1.7
Rawalpindi	1.4	0.5	31.4	67	0.0	0.5	0.8	0.7	1.3
Sahiwal	3.6	2.0	46.9	65	0.0	0.0	0.0	0.6	1.1
Saidu Sharif	1.5	0.5	21.3	60	0.0	2.3	2.3	0.0	0.3
Sialkot	3.4	0.8	41.8	70	0.0	0.0	1.4	0.0	1.4
Sibbi	5.2	3.0	62.3	41	0.0	0.0	0.0	0.0	0.0
Skardu	-7.2	-9.6	***	78	7.0	7.0	5.9	0.0	0.0
Tandojam	6.6	3.0	62.8	59	0.0	0.0	0.0	1.5	1.5
U.Muhammad	4.0	3.0	53.5	72	0.0	0.0	0.0	0.1	0.0
Zhob	-2.1	-5.0	-6.7	45	0.0	0.0	0.0	1.7	4.7

*** Shows that data was not available.