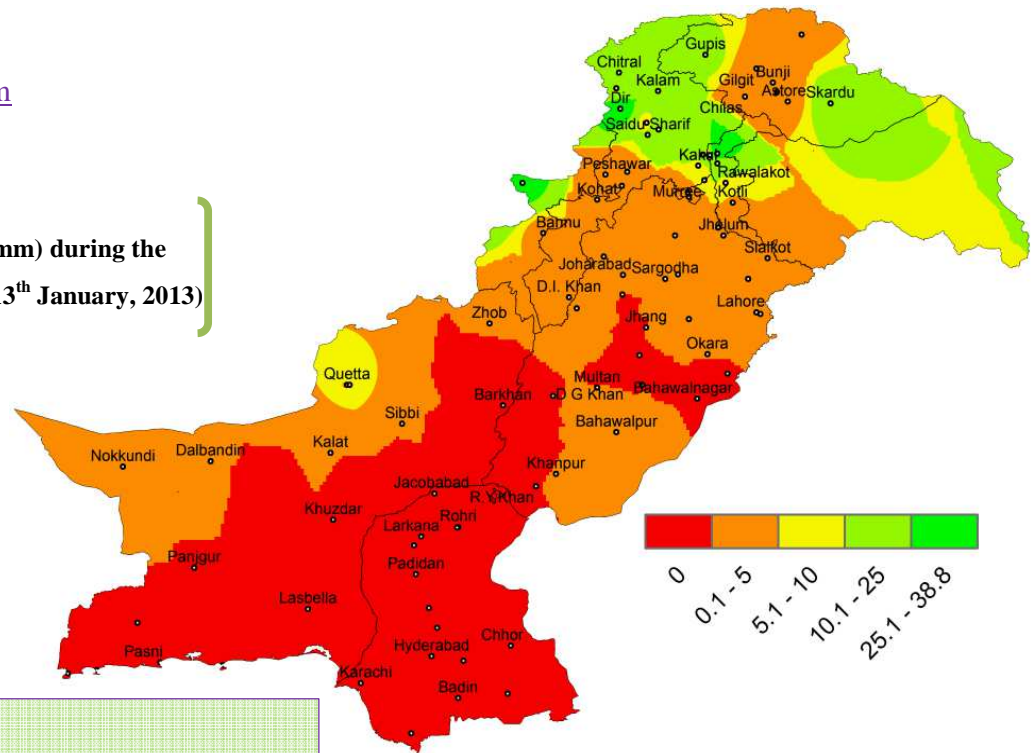


Weekly Weather and Crop Bulletin for Pakistan

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Rainfall distribution (mm) during the
last week (from 7th to 13th January, 2013)



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Highlights of Past Weather (7th to 13th January, 2013)

Light to moderate precipitation (rain and snowfall) recorded in the upper half of the country including Khyber Pakhtoonkhawa, Gilgit Baltistan & Kashmir region, Punjab and Quetta valley of Balochistan. Whereas, cold and dry weather observed in rest of the country.

Chief Editor: Dr. Khalid Mehmood Malik (Director)
Editor: Dildar Hussain Kazmi (Meteorologist)

Punjab

Light precipitation recorded during the week. Weekly maximum temperature and minimum temperature recorded as 18.0°C & 4.2°C respectively. For the present season on average 45.6 growing degree days accumulated by the end of last week. Average relative humidity recorded as 72 % and wind speed in the morning/evening recorded as 1.5/1.2 Knots. During the previous week the highest rainfall recorded at Murree as 9.4 mm and extreme minimum temperature recorded at Chakwal as -3.0 °C followed by Murree as -2.5°C.

Sindh

Cold and dry weather reported during the week. Weekly maximum temperature and minimum temperature recorded as 24.3°C & 8.5°C respectively. For the present season on average 81.2 growing degree days accumulated by the end of last week. Average relative humidity recorded as 60 % and wind speed in the morning/evening recorded as 1.3/2.7 Knots. During the previous week the extreme minimum temperature recorded as 2.0°C at Mithi.

Khyber Pakhtoon Khawa (KP)

Light to moderate precipitation recorded during the week. Weekly maximum temperature and minimum temperature recorded as 12.2°C & -0.9°C respectively. For the present season on average 20.6 growing degree days accumulated by the end of last week. Average relative humidity recorded as 66 % and wind speed in the morning/evening recorded as 2.2/1.2 Knots. During the previous week the highest rainfall recorded at Dir as 39.0 mm and extreme minimum temperature recorded as -10.5°C at Kalam.

Balochistan

Cold and dry weather reported during the week however light precipitation recorded in Quetta valley. Weekly maximum temperature and

minimum temperature recorded as 21.0°C & 5.8°C respectively. For the present season on average 59.5 growing degree days accumulated by the end of last week. Average relative humidity recorded as 48 % and wind speed in the morning/evening recorded as 2.1/5.4 Knots. During the previous week the highest rainfall recorded at Quetta as 8.8 mm and extreme minimum temperature recorded as -7.5°C at Samungli (Quetta).

Gilgit Baltistan and Azad Jammu & Kashmir

Light to moderate precipitation recorded during the week. Weekly maximum temperature and minimum temperature recorded as 10.1°C & -3.7°C respectively. For the present season on average 22.6 growing degree days accumulated by the end of last week. Average relative humidity recorded as 59 % and wind speed in the morning/evening recorded as 1.1/2.1 Knots. During the previous week the highest rainfall recorded at Pattan as 36.0 mm and extreme minimum temperature recorded as -17.1°C at Skardu.

Past Weather for Major Agricultural Plains

(from 7th to 13th January, 2013)

Rawalpindi (Potohar region)

Rainfall recorded as 2.2 mm during the week with cloudiness in the morning/evening as 2.7/2.7 Oktas while average relative humidity observed as 83%. Mean night temperature recorded as 2.5°C & for the present season 4.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/0.7 Km/h.

Faisalabad (Central Punjab)

Rainfall recorded as Trace (indeterminate amount) during the week with cloudiness in the morning/evening as 2.1/1.0 Oktas while average relative humidity observed as 61%. Mean night temperature recorded as 4.0°C & for the present season 6.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/0.7 Km/h.

Tandojam (Lower Sindh)

Cold and dry weather with clear skies reported during the week while average relative humidity observed as 63%. Mean night temperature recorded as 10.5°C & for the present season 13.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.7/2.6 Km/h.

Quetta (Northern Balochistan)

Precipitation recorded as 8.8 mm during the week with cloudiness in the morning/evening as 3.3/3.8 Oktas while average relative humidity observed as 49%. Mean night temperature recorded as -0.2°C & for the present season 1.6 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 5/5.1 Km/h.

Usta Muhammad (Eastern Balochistan)

Cold and dry weather reported during the week with cloudiness in the morning/evening as 0.9/0.6 Oktas while average relative humidity observed as 76%. Mean night temperature recorded as 5.6°C & for the present season 7.8 growing degree days

accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.6/3.2 Km/h.

Past Weather for sub regional Agri-cultural Plains (from 7th to 13th January, 2013)

Rohri

Dry & cold weather with clear skies observed whereas relative humidity recorded as 57%. Mean night temperature recorded as 8.4°C & for the present season 70.8 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 0.7/1.3 Knots.

Multan

Dry & cold weather observed with cloudiness recorded in the morning/evening as 2/2.8 Oktas and average relative humidity recorded as 74%. Mean night temperature recorded as 5.1°C & for the present season 47.5 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 0.6/0.0 Knots.

Lahore

Rainfall recorded as 0.3 mm with cloudiness recorded in the morning/evening as 2.8/2.0 Oktas and average relative humidity recorded as 72%. Mean night temperature recorded as 5.1°C & for the present season 43.2 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 0.3/2.3 Knots.

Zhob

Dry & cold weather observed with cloudiness recorded in the morning/evening as 1/1.2 Oktas and average relative humidity recorded as 37%. Mean night temperature recorded as 2.4°C & for the present season 62.8 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 6.2/6.3 Knots.

D.I. Khan

Rainfall recorded as 0.2 mm with cloudiness recorded in the morning/evening as 2.6/0.9 Oktas and average relative humidity recorded as 68%. Mean night temperature recorded as 4.3°C & for the present season 44.4 growing degree days

accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/0.3 Knots.

Peshawar

Rainfall recorded as 3.0 mm with cloudiness recorded in the morning/evening as 2.7/3.0 Oktas and average relative humidity recorded as 72%. Mean night temperature recorded as 2.3°C & for the present season 30.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.1/0.3 Knots.

Murree

Rainfall recorded as 9.4 mm with cloudiness recorded in the morning/evening as 2.3/3.4 Oktas and average relative humidity recorded as 66%. Mean night temperature recorded as 0.2°C & wind speed recorded in the morning/evening as 3.0/0.6 Knots.

Kalam

Rainfall recorded as 20.0 mm with cloudiness recorded in the morning/evening as 2.0/4.5 Oktas and average relative humidity recorded as 71%. Mean night temperature recorded as -6.9°C & wind recorded in the morning/evening as Calm (no wind).

Gilgit.

Rainfall recorded as 0.1 mm with cloudiness recorded in the morning/evening as 3.3/4.4 Oktas and average relative humidity recorded as 64%. Mean night temperature recorded as -6.4°C & wind speed recorded in the morning/evening as 0.3/0.0 Knots.

Skardu

Rainfall recorded as 19.0 mm with cloudiness recorded in the morning/evening as 4.2/4.4 Oktas and average relative humidity recorded as 64%. Mean night temperature recorded as -14.3°C and wind recorded in the morning/evening as Calm (no wind).

Crop Situation for major agricultural plains (based on data from Regional Agromet Centres)

Potohar Region (Rawalpindi)

There is presently one crop (rainfed conditions) grown in the fields as detailed below.

Wheat (Chakwal-97): Good condition at *Tillering* stage.

Central Punjab (Faisalabad)

There are two crops (irrigated conditions) grown in the fields as detailed below.

Sugarcane: Good condition at *Tillering* stage.

Wheat: Good condition at *Tillering* stage.

Lower Sindh (Tandojam)

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

Wheat (TJ-83): Good condition at *Flowering* stage.

Northern Balochistan (Quetta)

There is presently one crop (rainfed conditions) grown in the fields as detailed below.

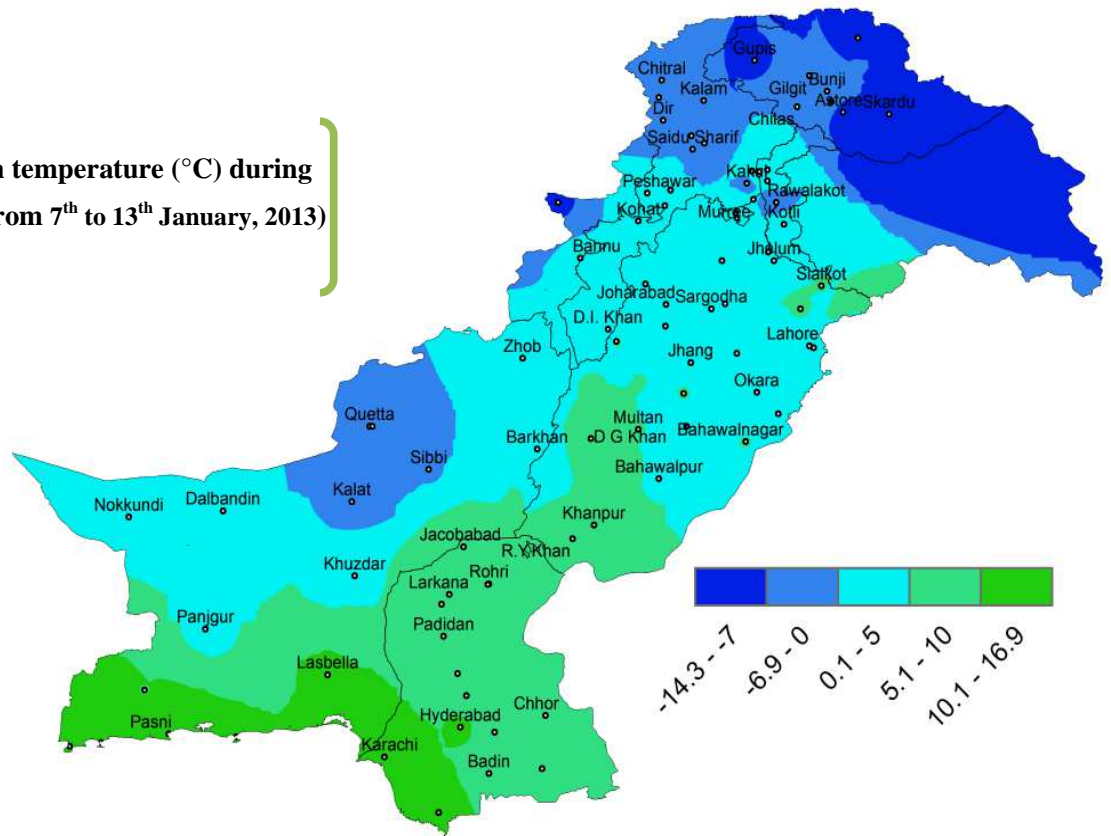
Wheat: Good condition at *Third leaf* stage.

Eastern Balochistan (Usta Muhammad)

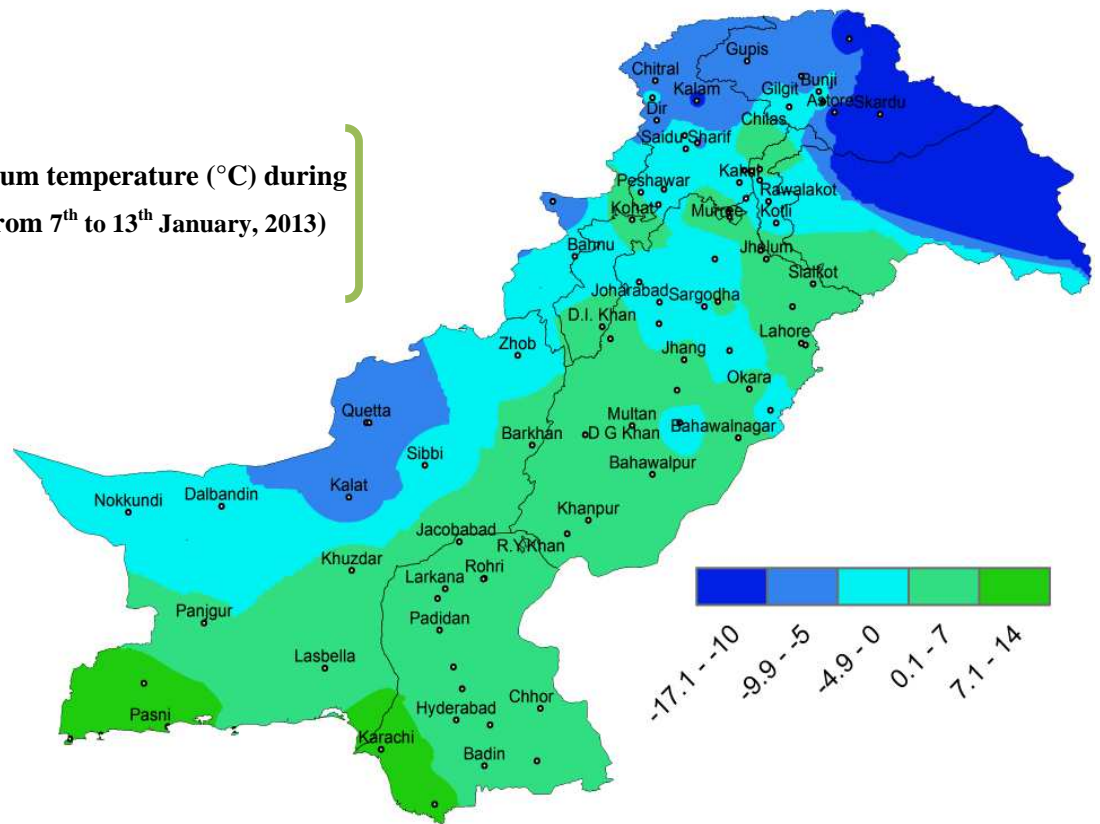
There is presently one crop (irrigated conditions) grown in the fields as detailed below.

Wheat: Good condition at *Emergence* stage.

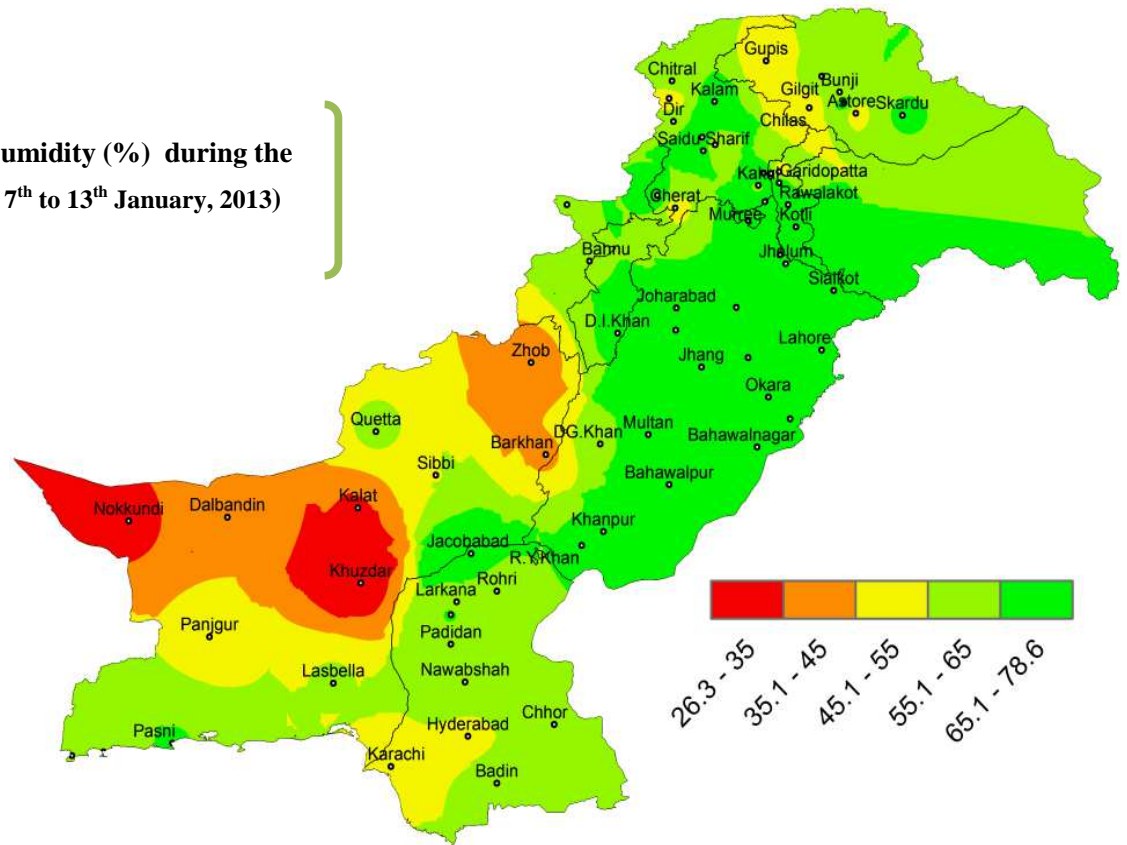
Mean minimum temperature (°C) during the last week (from 7th to 13th January, 2013)



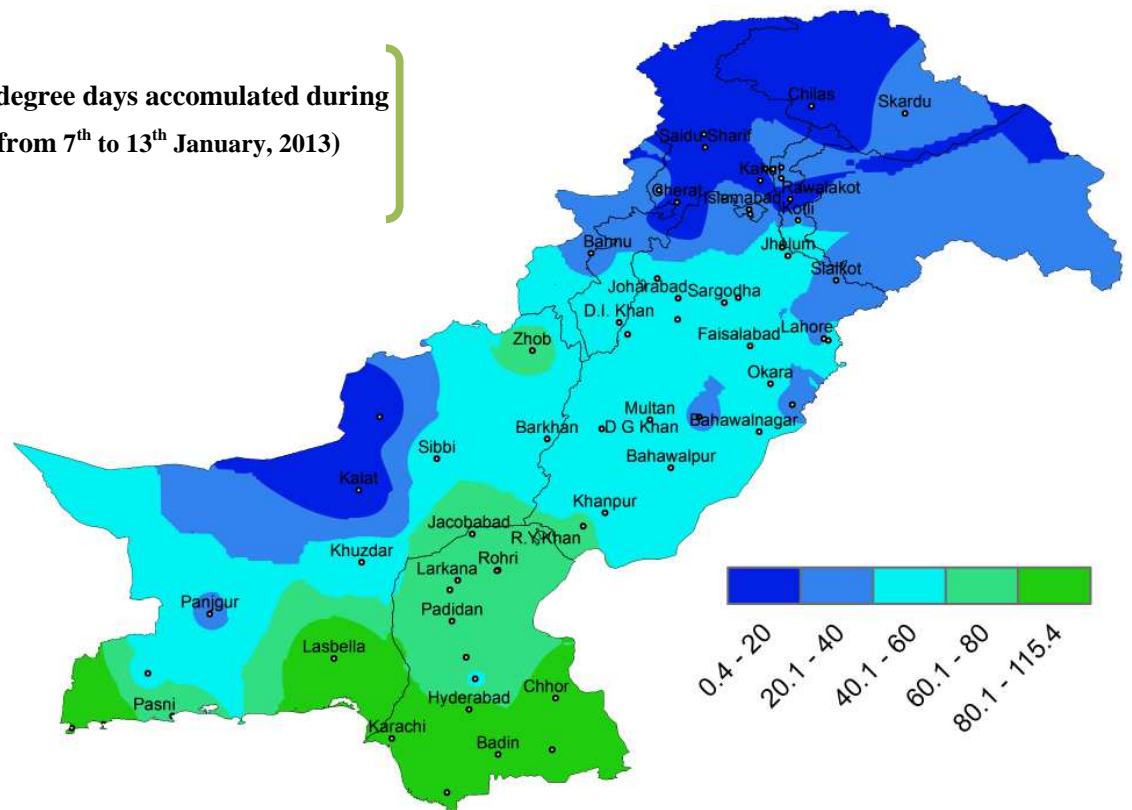
Extreme minimum temperature (°C) during the last week (from 7th to 13th January, 2013)



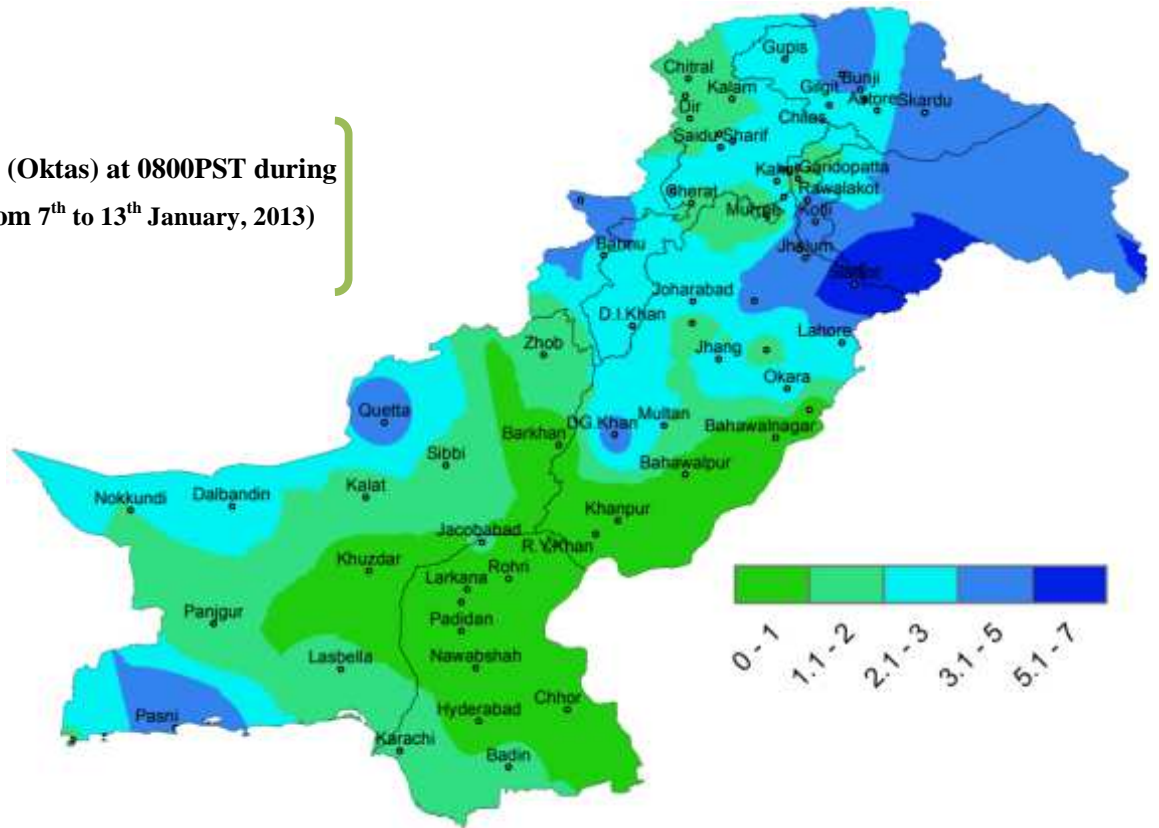
Mean relative humidity (%) during the last week (from 7th to 13th January, 2013)



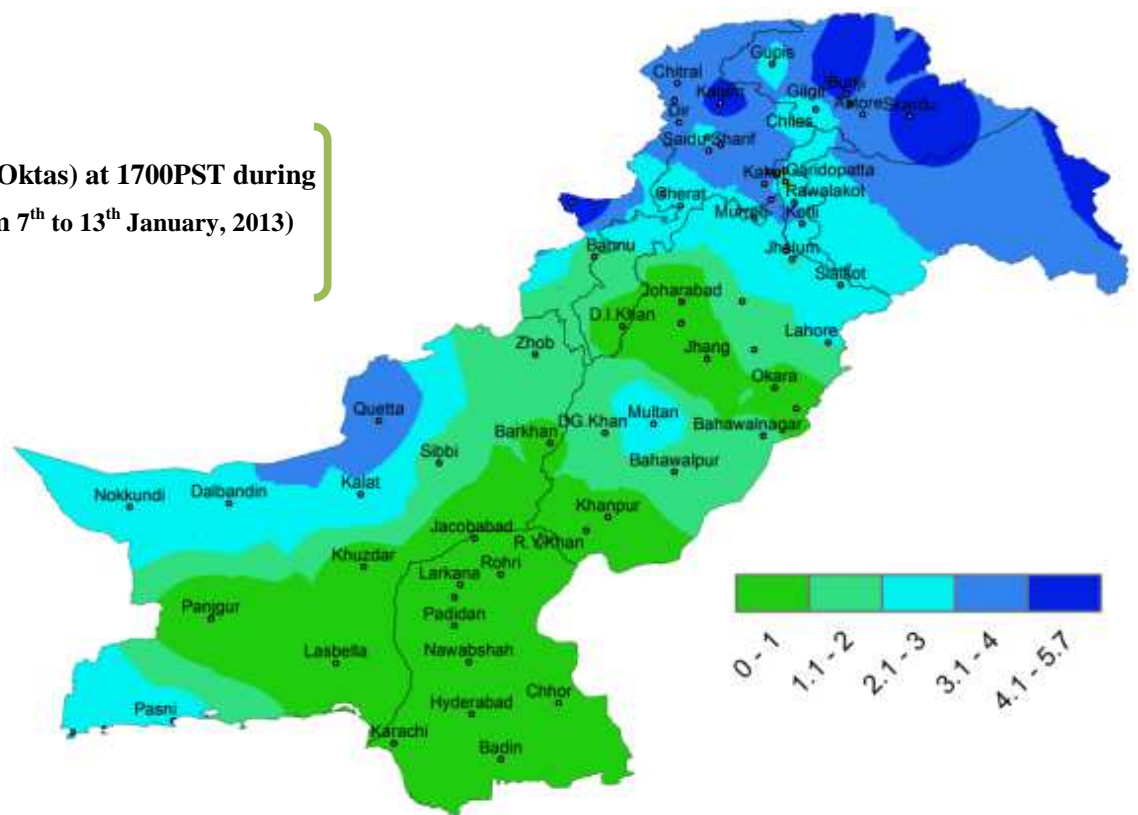
Total growing degree days accumulated during the last week (from 7th to 13th January, 2013)



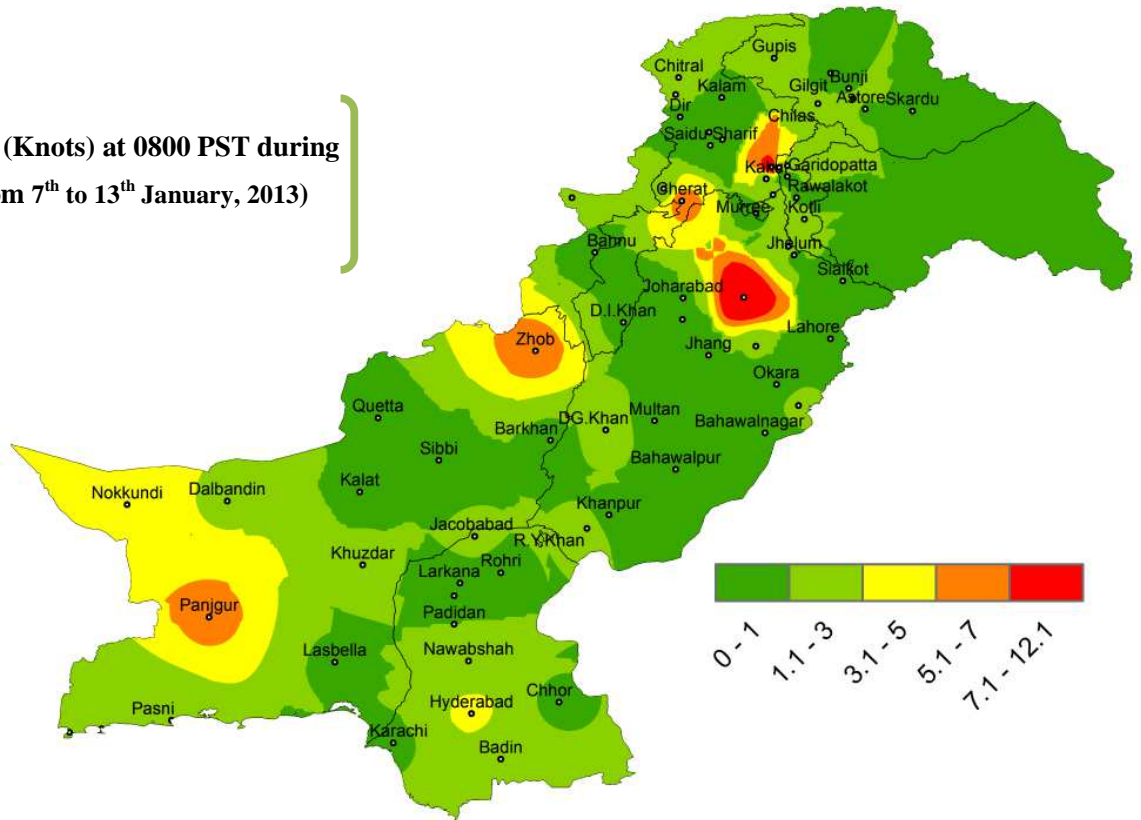
Mean Cloudiness (Oktas) at 0800PST during the last week (from 7th to 13th January, 2013)



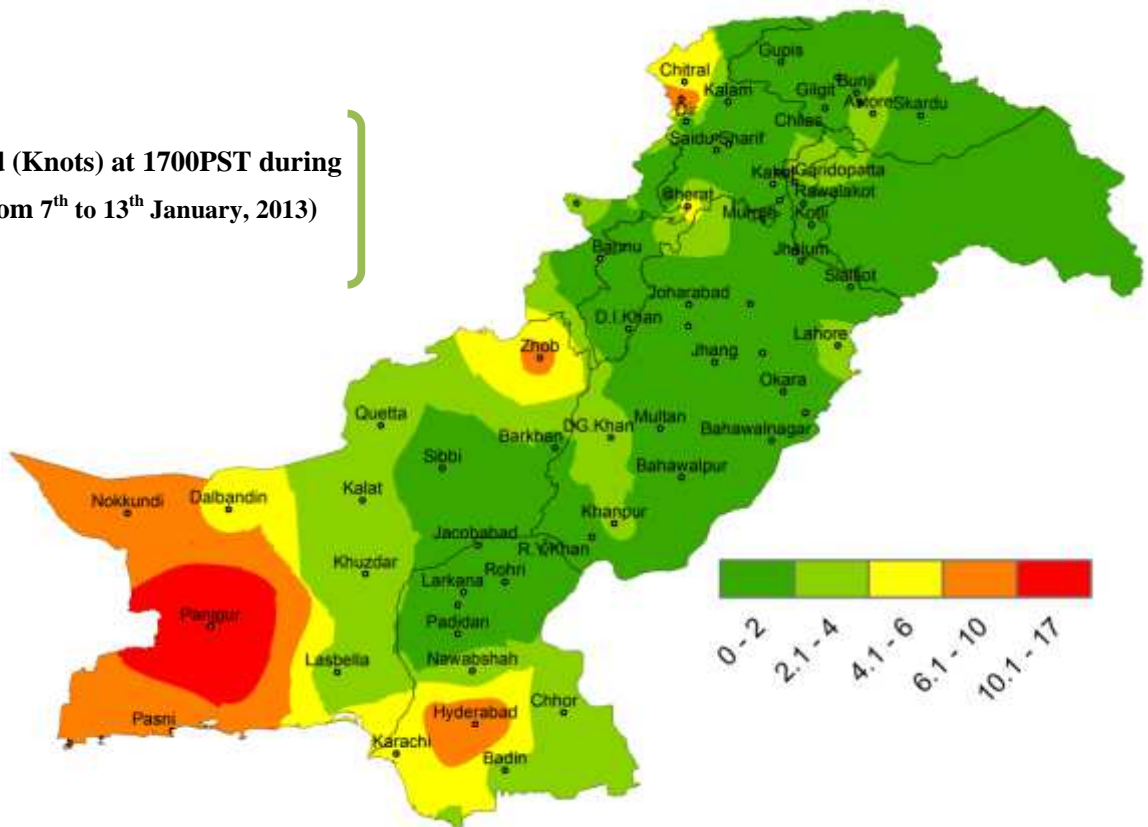
Mean Cloudiness (Oktas) at 1700PST during the last week (from 7th to 13th January, 2013)



Mean wind speed (Knots) at 0800 PST during the last week (from 7th to 13th January, 2013)



Mean wind speed (Knots) at 1700 PST during the last week (from 7th to 13th January, 2013)



Weekly Weather advisory for Farmers (from 14th to 20th January, 2013)

Continental air would prevail over most parts of the country from Monday to Tuesday. A westerly weather system is likely to approach upper & central parts of the Country on Wednesday & likely to persist till Friday (Evening/Night).

Punjab including Islamabad:

Mainly cold & dry weather is expected in most parts of the province during the first & last two days of the week. However, scattered rain is likely in Punjab including Islamabad from Wednesday to Friday & widespread rain/showers may occur in Upper Punjab (Lahore, Gujranwala, Sahiwal divisions) on Thursday/Friday. Snowfall is also expected over the hills of Murree & Galliyat on Thursday & Friday.

Khyber Pakhtunkhwa:

Mainly cold & dry weather is expected in most parts of the province during the week. However rain (with snowfall over the hills) is expected at scattered places of KP from Wednesday to Friday.

Balochistan:

Cold & dry weather is expected in most parts of the province during the week. However, light rain is likely at isolated places along Makran coast on Tuesday/Wednesday & rain is also expected in North Balochistan on Thursday/Friday.

Sindh:

Mainly cold & dry weather is expected in most parts of the province during the week. However, light rain is likely at isolated places Sindh coast on Tuesday/Wednesday & light rain may also occur in Upper Sindh on Thursday.

Kashmir:

Very Cold & Dry weather is expected in most parts of Kashmir during the week. However, widespread rain/showers (with snowfall over the hills) is expected in Kashmir from Wednesday to Friday.

Gilgit-Baltistan:

Very Cold & dry weather is expected in most parts of Gilgit-Baltistan during the week. However, rain (with snowfall over the hills) is expected at scattered places of GB from Wednesday to Friday.

Advices for Crops:

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

General Information: Farmers of rainfed 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.

Precautionary Measures for Animals Care:

Farmers in the lower half of the country especially those in central regions are advised to take up poultry rearing houses to maintain optimum room temperature and take care against the rapid changes in air temperature and relative humidity.

National Weather Data of Selected Cities

(Weekly Data from 7th to 13th January, 2013)

STATIONS	Minimum/Night Temperature (°C)		Growing Deg. Days	Relative Humidity (%)	Rainfall (mm)	Cloudiness (Oktas) 0800 PST	Cloudiness (Oktas) 1700 PST	Wind Speed (Knots) 0800 PST	Wind Speed (Knots) 1700 PST
	Mean	Lowest Min							
Astore	-11.5	-14.5	***	50	0.0	2.9	3.9	0.6	2.3
Badin	7.6	1.0	85.3	59	0.0	1.3	0.0	1.7	3.3
Bahawalnagar	5.1	2.5	45.7	77	0.0	0.3	1.3	0.3	0.6
Bahawalpur	5.0	1.5	51.1	74	0.1	0.4	1.1	0.3	0.6
Balakot	0.2	-1.7	16.9	69	19.0	2.1	3.1	12.1	0.3
Bannu	2.3	-2.6	38.8	63	0.1	2.8	1.4	0.0	0.0
Barkhan	3.6	1.5	44.3	43	0.0	0.3	0.8	0.3	1.7
Bunji	-4.2	-5.0	***	59	0.0	3.3	4.6	0.0	1.4
Cherat	1.2	0.0	0.3	50	2.0	1.6	2.3	6.6	4.9
Chhor	8.0	3.5	89.1	61	0.0	0.3	0.0	0.7	2.3
Chilas	0.0	-1.0	4.7	46	0.1	2.6	2.4	1.7	0.9
Chitral	-2.9	-5.6	***	63	19.0	1.4	3.1	2.9	4.3
D G Khan	6.2	3.0	54.9	68	0.0	2.6	0.9	0.6	0.3
D.I. Khan	4.3	0.5	44.4	44	0.2	2.5	3.0	2.7	5.3
Dalbandin	2.0	-5.0	***	62	0.0	3.4	1.9	1.7	3.1
Dir	-5.6	-7.0	***	62	39.0	1.1	3.3	0.0	1.1
Drosh	-3.6	-4.6	***	48	9.0	1.4	3.3	1.4	9.4
Faisalabad	3.7	-1.5	41.6	71	0.1	1.8	1.4	1.1	0.9
Garidopatta	0.6	-2.0	23.4	74	15.0	1.1	1.4	0.0	1.1
Gawader	13.2	11.5	105.8	59	0.0	2.7	2.2	1.0	7.3
Gilgit	-6.4	-8.0	***	64	0.1	3.3	4.4	0.3	0.0
Gupis	-7.9	-8.5	***	48	15.0	2.9	2.9	2.0	0.6
Hyderabad	11.4	5.5	96.0	52	0.0	0.5	0.0	3.3	9.0
Islamabad	2.7	1.5	36.7	76	3.0	1.0	2.5	0.3	1.0
Jacobabad	8.4	5.5	69.8	75	0.0	1.2	0.0	1.3	0.3
Jhang	4.5	0.5	***	74	0.0	2.1	0.0	0.6	0.3
Jhelum	4.4	1.8	46.0	69	0.3	4.0	1.9	0.6	2.0
Jiwani	17.1	14.0	115.4	64	0.0	1.8	2.5	2.7	6.0
Joharabad	3.6	0.0	41.5	74	0.0	2.7	0.9	0.6	0.3
Kakul	-0.5	-2.5	7.8	64	5.0	2.0	3.1	0.3	0.6
Kalam	-6.9	-10.5	***	71	20.0	2.0	4.5	0.0	0.0
KLT	-1.4	-7.0	6.0	34	0.0	1.6	3.0	0.8	2.7
Karachi	14.0	10.5	108.8	52	0.0	2.0	0.0	0.7	5.0
Khanpur	5.1	1.6	57.5	68	0.0	0.0	0.9	0.6	2.3
Khuzdar	3.9	2.0	49.0	26	0.0	0.3	0.5	1.3	4.0
Kotli	2.9	-0.6	41.4	68	4.0	3.6	3.0	1.0	1.3
Lahore	5.1	2.5	43.2	72	0.3	2.8	2.0	0.3	2.3
Larkana	8.1	6.3	69.1	61	0.0	0.0	0.0	0.7	0.7

Lasbella	10.6	4.5	96.5	57	0.0	1.2	0.8	0.7	3.3
Lower Dir	-0.4	-2.5	12.0	73	6.0	1.4	2.6	0.9	2.3
M.B.din	5.0	0.5	39.8	77	2.0	3.2	2.0	12.1	0.6
Malam Jabba	-4.6	-6.0	***	59	23.0	2.4	3.6	0.9	0.0
Mangla	4.3	0.8	44.0	67	2.0	3.9	2.6	2.3	1.4
Mir Khani	-1.8	-2.0	***	70	3.0	2.1	2.7	3.0	2.6
Moen-Jo-Daro	6.5	3.0	66.5	66	0.0	0.7	0.0	0.7	0.3
Multan	5.1	2.3	47.5	74	0.0	2.0	2.8	0.6	0.0
Murree	0.2	-2.0	***	66	9.4	2.3	3.4	3.0	0.6
Muzaffarabad	1.7	0.6	27.7	71	19.0	2.1	3.6	0.0	0.0
Nawabshah	7.6	5.0	79.0	63	0.0	0.9	0.0	2.4	3.3
Nokkundi	4.7	-1.6	***	32	0.1	2.0	2.7	3.7	6.3
Noorpur Thal	3.9	-1.0	48.6	72	0.0	1.5	0.0	0.0	0.6
Okara	3.4	1.0	40.9	76	0.0	2.8	0.9	0.3	1.1
Padidan	8.3	5.5	72.8	58	0.0	0.0	0.0	1.0	1.0
Panjgor	3.7	0.0	38.5	50	0.0	1.0	0.0	5.7	17.0
Parachinar	-8.6	-9.5	***	63	38.0	4.5	5.7	3.0	3.3
Pasni	14.8	12.5	68.5	66	0.0	4.7	2.3	1.3	7.7
Pattan	5.9	3.0	37.8	43	36.0	2.1	2.6	3.1	4.6
Peshawar	3.2	0.0	30.0	72	3.0	2.7	3.0	1.1	0.3
Quetta	-1.0	-5.5	***	57	4.1	3.4	3.8	0.9	3.0
R.Y.Khan	5.9	2.2	61.3	67	0.0	0.0	0.9	1.4	1.4
Rawalakot	-2.2	-5.2	0.7	69	9.0	3.3	3.0	0.9	0.9
Rohri	8.4	5.0	70.8	57	0.0	0.0	0.0	0.7	1.3
Sahiwal	3.4	-1.5	38.5	76	0.0	0.5	0.3	1.4	2.0
Saidu Sharif	0.2	-1.4	15.0	66	10.0	2.4	3.3	0.0	0.0
Sialkot	5	2.3	35.3	79	0.1	7.0	3.0	0.3	1.4
Sibbi	-0.3	-4.0	57.5	55	0.0	1.7	1.5	0.0	0.0
. Skardu	-14.3	-17.1	22.6	66	19.0	4.2	4.4	0.0	0.0
Zhob	2.4	-2.0	62.8	37	0.0	1.0	1.2	6.2	6.3

*** Data Not available