

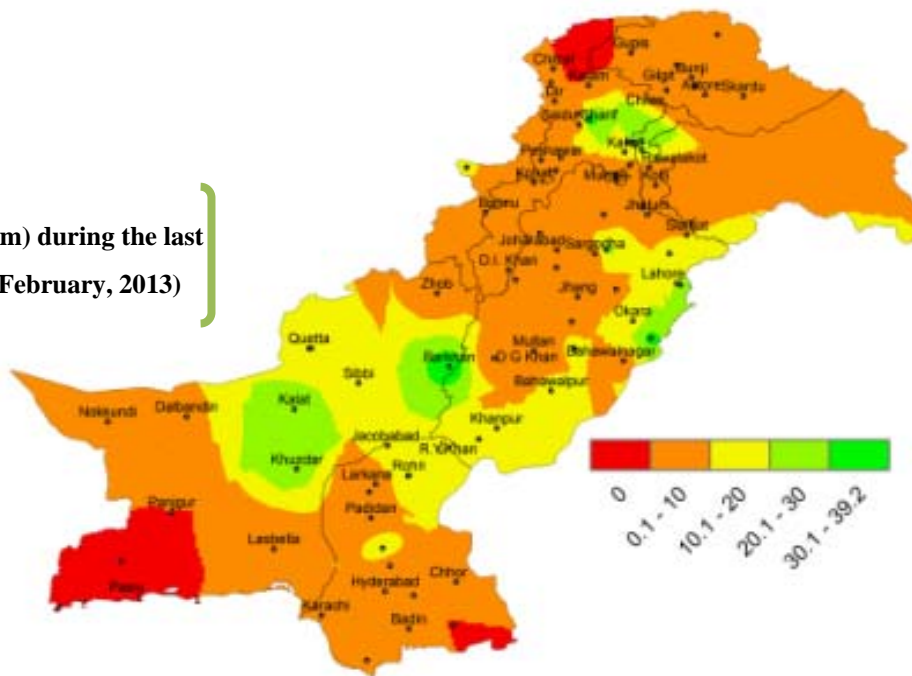
Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall distribution (mm) during the last
week (from 11th to 17th February, 2013)**



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Highlights of Past Weather (11th to 17th February, 2013)

Light to moderate rainfall (with snow over the hills) occurred in most of the agricultural plains of the country, especially in the upper half.

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

Punjab

Light to moderate precipitation reported from most of the agricultural plains of the province during the week. Weekly maximum temperature and minimum temperature recorded as 20.5°C & 8.9°C respectively. For the present season on average 68.9 growing degree days accumulated by the end of last week. Average relative humidity recorded as 73% and wind speed in the morning/evening recorded as 1.2/2.4 Knots. During the previous week the highest rainfall recorded at Sahiwal as 32.0 mm and extreme minimum temperature recorded at Murree as -1.0°C.

Sindh

Light to moderate rainfall reported from scattered places of the province during the week. Weekly maximum temperature and minimum temperature recorded as 25.5°C & 11.7°C respectively. For the present season on average 94.8 growing degree days accumulated by the end of last week. Average relative humidity recorded as 57 % and wind speed in the morning/evening recorded as 3.1/4.6 Knots. During the previous week the highest rainfall recorded at Sukkar as 19.0 mm and extreme minimum temperature recorded as 6.7°C at Mithi.

Khyber Pakhtoon Khawa (KP)

Light to moderate precipitation reported from most of the agricultural plains of the province during the week. Weekly maximum temperature and minimum temperature recorded as 15.2°C & 2.3°C respectively. For the present season on average 31.6 growing degree days accumulated by the end of last week. Average relative humidity recorded as 65 % and wind speed in the morning/evening recorded as 0.8/1.7 Knots. During the previous week the highest rainfall recorded at Malam Jabba as 40.0 mm and extreme minimum temperature recorded as -10.0°C at Parachinar.

Balochistan

Light to moderate precipitation reported from most of the agricultural plains of the province during the week. Weekly maximum temperature and minimum temperature recorded as 21.4°C & 0.0°C respectively. For the present season on average 66.8 growing degree days accumulated by the end of last week. Average relative humidity recorded as 53 % and wind speed in the morning/evening recorded as 2.0/4.8 Knots. During the previous week the highest rainfall recorded at Kalat as 28.0 mm and extreme minimum temperature recorded as -4.5°C at Kallat.

Gilgit Baltistan and Azad Jammu & Kashmir

Light to moderate precipitation reported from most of the agricultural plains of the region during the week. Weekly maximum temperature and minimum temperature recorded as 12.9°C & -0.8°C respectively. For the present season on average 29.0 growing degree days accumulated by the end of last week. Average relative humidity recorded as 62 % and wind speed in the morning/evening recorded as 0.4/1.1 Knots. During the previous week the highest rainfall recorded at Pattan as 31.0 mm and extreme minimum temperature recorded as -9.7°C at Astore.

Past Weather for Major Agricultural Plains (from 11th Jan to 17th Feb, 2013)

Rawalpindi (Potohar region)

Rainfall reported as 7.2 mm during the week however cloudiness in the morning/evening as 1.4/3.0 Oktas while average relative humidity observed as 74%. Mean night temperature recorded as 3.5°C & for the present season 36.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.2/1.8 Km/h.

Faisalabad (Central Punjab)

Rainfall reported as 3.2 mm during the week however cloudiness in the morning/evening as 2.7/2.3 Oktas while average relative humidity observed as 58.9%. Mean night temperature recorded as 4.8°C & for the present season 49.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.0/1.1 Km/h.

Tandojam (Lower Sindh)

Rainfall reported as 1.0 mm during the week however cloudiness in the morning/evening as 0.4/0.8 Oktas while average relative humidity observed as 47%. Mean night temperature recorded as 8.3°C & for the present season 74.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.4/0.8 Km/h.

Quetta (Northern Balochistan)

No Rainfall reported during the week however cloudiness in the morning/evening as 0.0/0.4 Oktas while average relative humidity observed as 39%. Mean night temperature observed as -4.5°C & for the present season -17.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.7/5.7 Km/h.

Usta Muhammad (Eastern Balochistan)

Rainfall reported as 0.5 mm during the week however cloudiness in the morning/evening as 0.9/1.0 Oktas while average relative humidity observed as 78%. Mean night temperature

recorded as 5.7°C & for the present season 57.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/1.6 Km/h.

Past Weather for sub regional Agri-cultural Plains (from 11th Jan to 17th Feb, 2013)

Rohri

Rainfall reported as 9.0 mm during the week however cloudiness in the morning/evening as 1.7/2.1 Oktas while average relative humidity observed as 63%. Mean night temperature recorded as 11.0°C & for the present season 85.8 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 2.0/3.4 Knots.

Multan

Rainfall reported as 2.2 mm during the week however cloudiness in the morning/evening as 3.9/5.4 Oktas while average relative humidity observed as 74%. Mean night temperature recorded as 10.0°C & for the present season 81.5 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 0.9/3.7 Knots.

Lahore

Rainfall reported as 22.1 mm during the week however cloudiness in the morning/evening as 4.3/4.6 Oktas while average relative humidity observed as 70%. Mean night temperature recorded as 8.3°C & for the present season 70.9 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 0/4.9 Knots.

Zhob

Precipitation reported as 4.0 mm during the week however cloudiness in the morning/evening as 3.3/5.6 Oktas while average relative humidity observed as 48%. Mean night temperature recorded as 1.0°C & for the present season 54.5 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 5.0/5.04 Knots.

D.I. Khan

Rainfall reported as 4.0 mm during the week however cloudiness in the morning/evening as 3.1/2.9 Oktas while average relative humidity observed as 75%. Mean night temperature recorded as 7.5°C & for the present season 34.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/0.6 Knots.

Peshawar

Rainfall reported as 0.2 mm during the week however cloudiness in the morning/evening as 3.6/3.4 Oktas while average relative humidity observed as 68%. Mean night temperature recorded as 6.5°C & for the present season 65.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.1/1.7 Knots.

Murree

Precipitation reported as 8.0 mm during the week however cloudiness in the morning/evening as 3.7/5.7 Oktas while average relative humidity observed as 71%. Mean night temperature recorded as -1.0°C & for the present season 22.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.7/1.7 Knots.

Kalam

No Precipitation reported during the week however cloudiness in the morning/evening as 3.3/5.6 Oktas while average relative humidity observed as 69%. Mean night temperature recorded as -7.5°C & wind recorded in the morning/evening as Calm (no wind).

Gilgit.

Precipitation reported as 3.1 mm during the week however cloudiness in the morning/evening as 6.1/5.9 Oktas while average relative humidity observed as 58%. Mean night temperature recorded as -1.0°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 0.0/0.9 Knots.

Skardu

Precipitation reported as 2.1 mm during the week however cloudiness in the morning/evening as 6.4/6.6 Oktas while average relative humidity observed as 64%. Mean night temperature recorded as -6.6°C & for the present season 10.8 growing degree days accumulated by the end of last week. and wind speed 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 *Shooting* 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 *shooting* stage.

Lower Sindh (Tandojam)

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

Wheat (TJ-83): Good condition at *Milk Maturity*.

Northern Balochistan (Quetta)

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

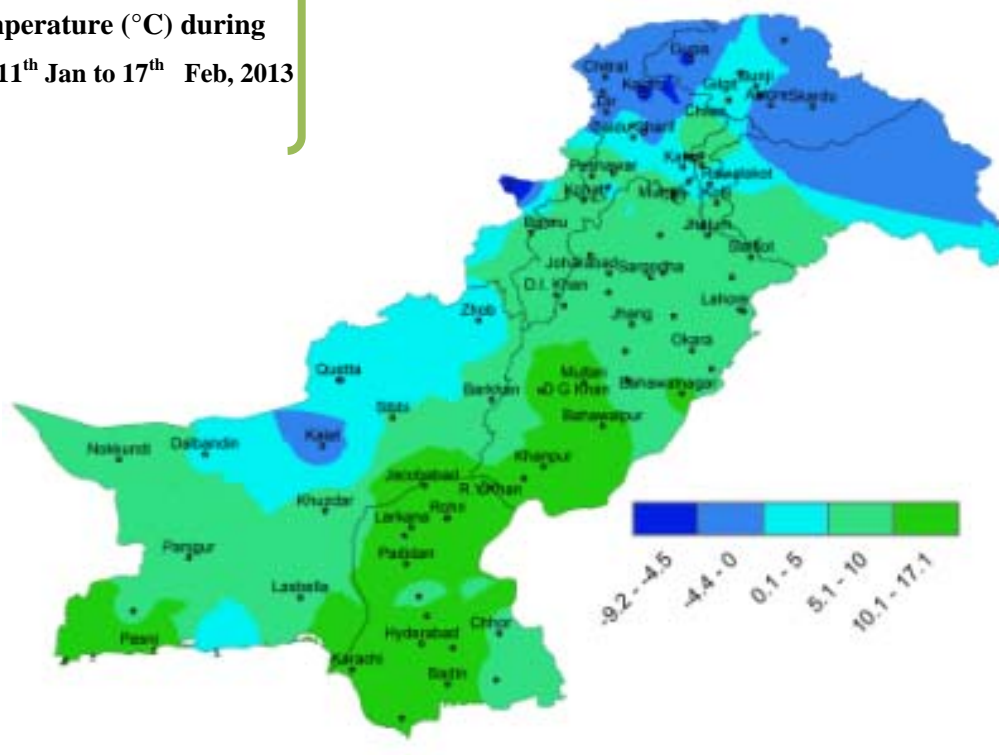
Wheat: Good condition at *Tillering* stage.

Eastern Balochistan (Usta Muhammad)

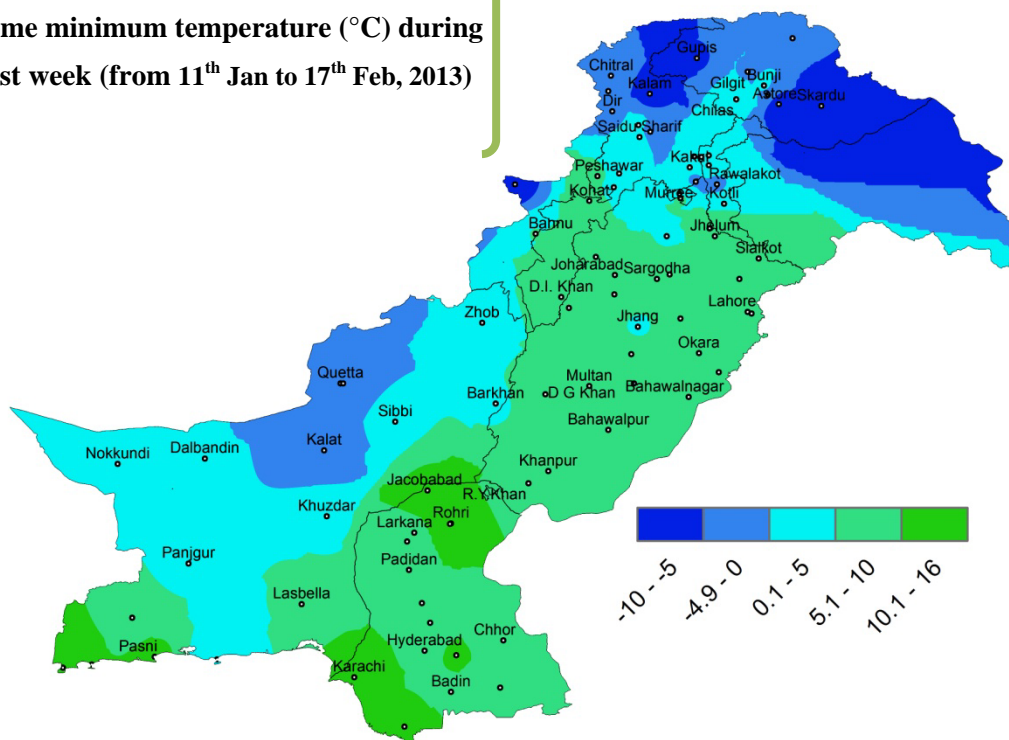
There is presently one crop (irrigated conditions) grown in the fields as detailed below.

Wheat: Good condition at *milk maturity*.

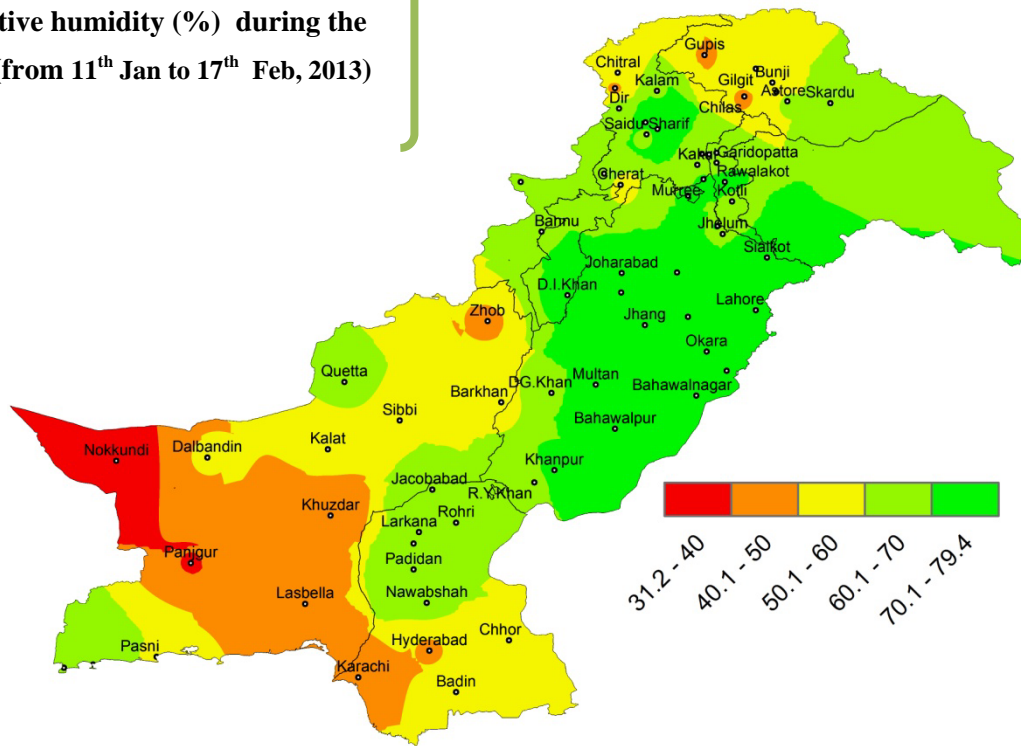
Mean minimum temperature (°C) during
the last week (from 11th Jan to 17th Feb, 2013)



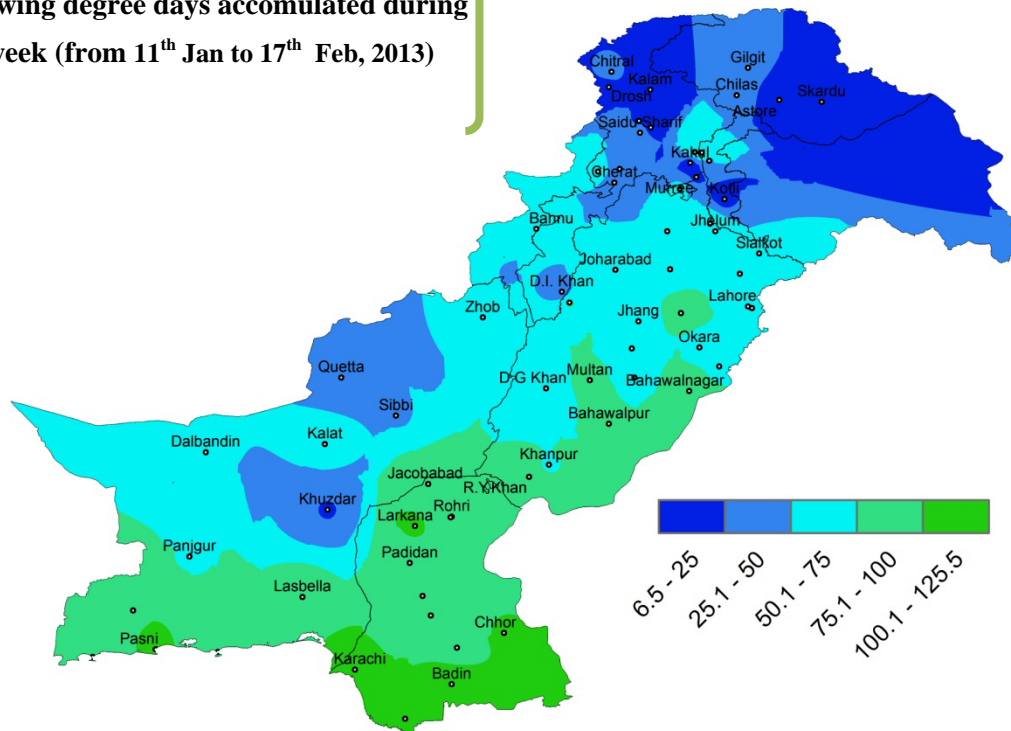
Extreme minimum temperature (°C) during
the last week (from 11th Jan to 17th Feb, 2013)



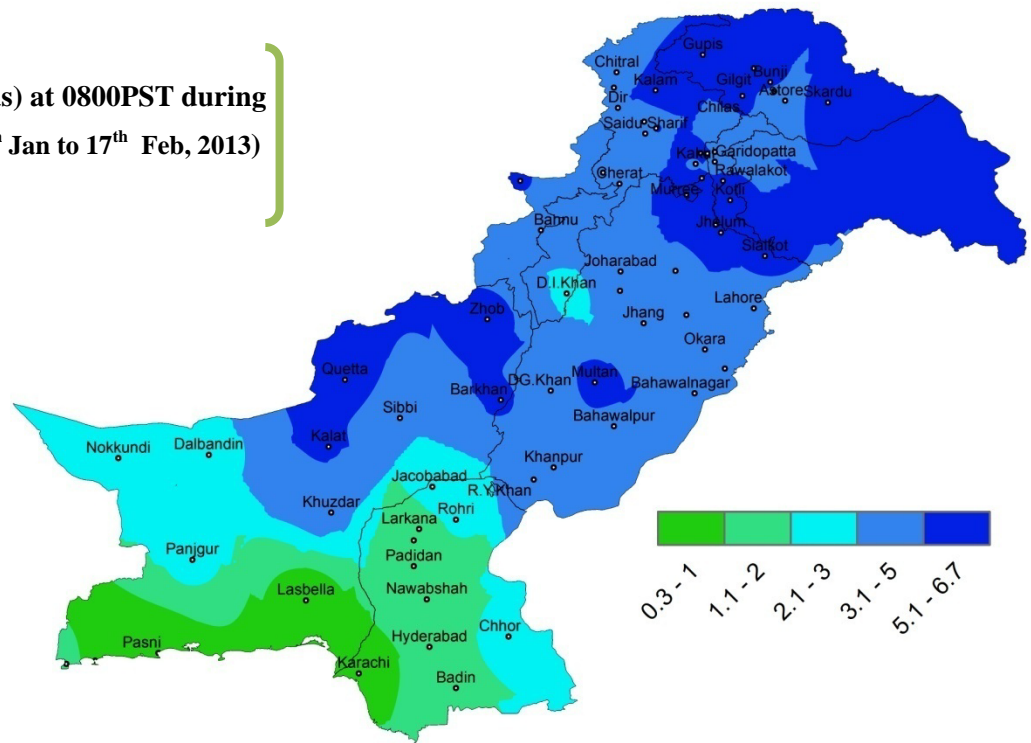
Mean relative humidity (%) during the last week (from 11th Jan to 17th Feb, 2013)



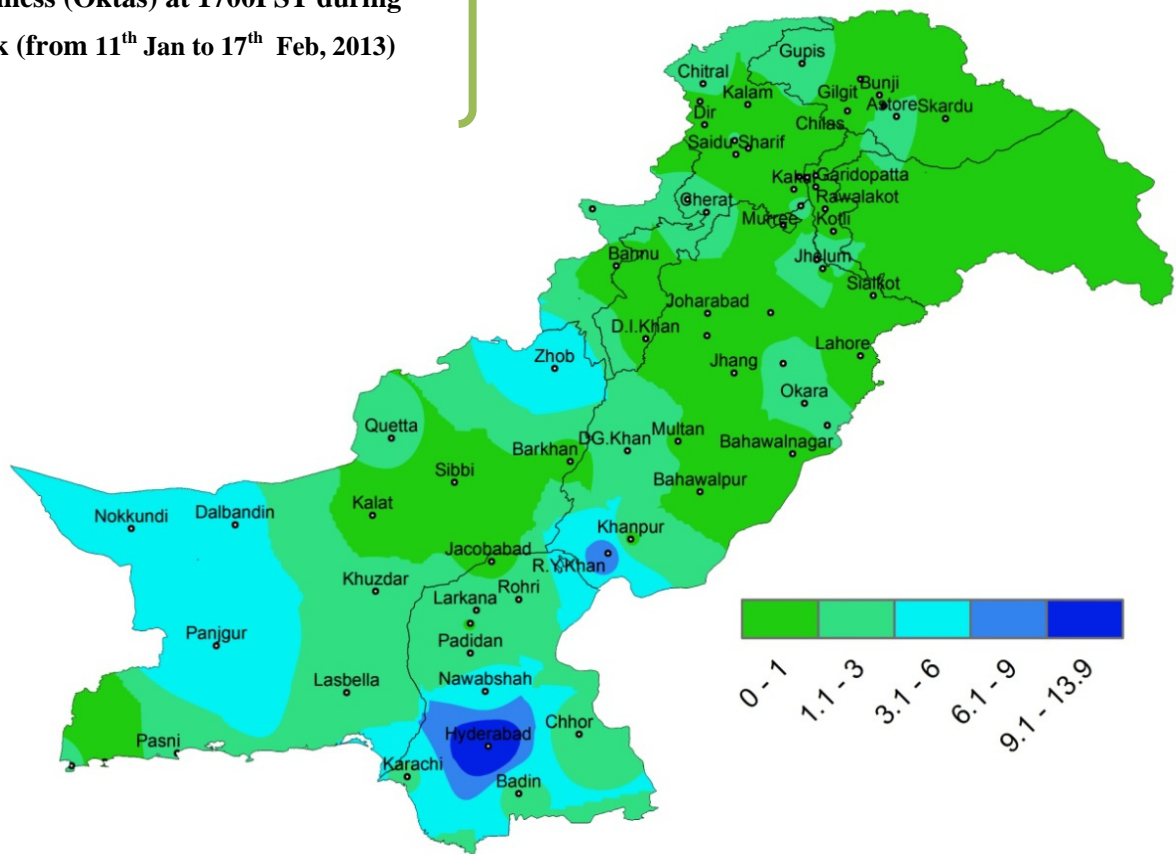
Total growing degree days accumulated during the last week (from 11th Jan to 17th Feb, 2013)



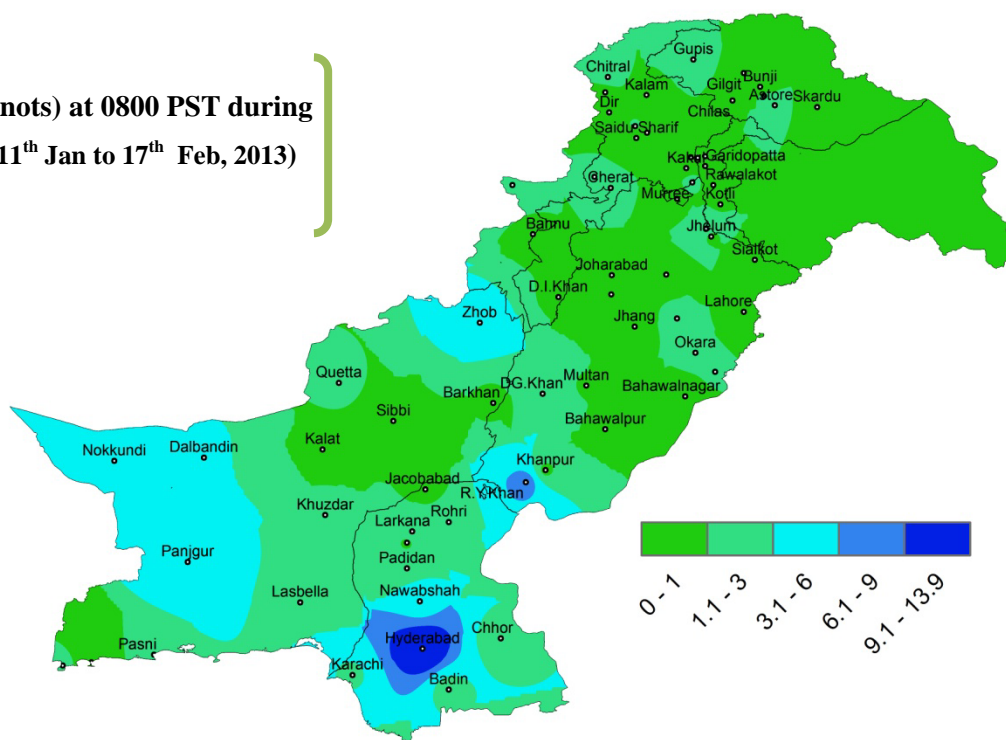
Mean Cloudiness (Oktas) at 0800PST during
the last week (from 11th Jan to 17th Feb, 2013)



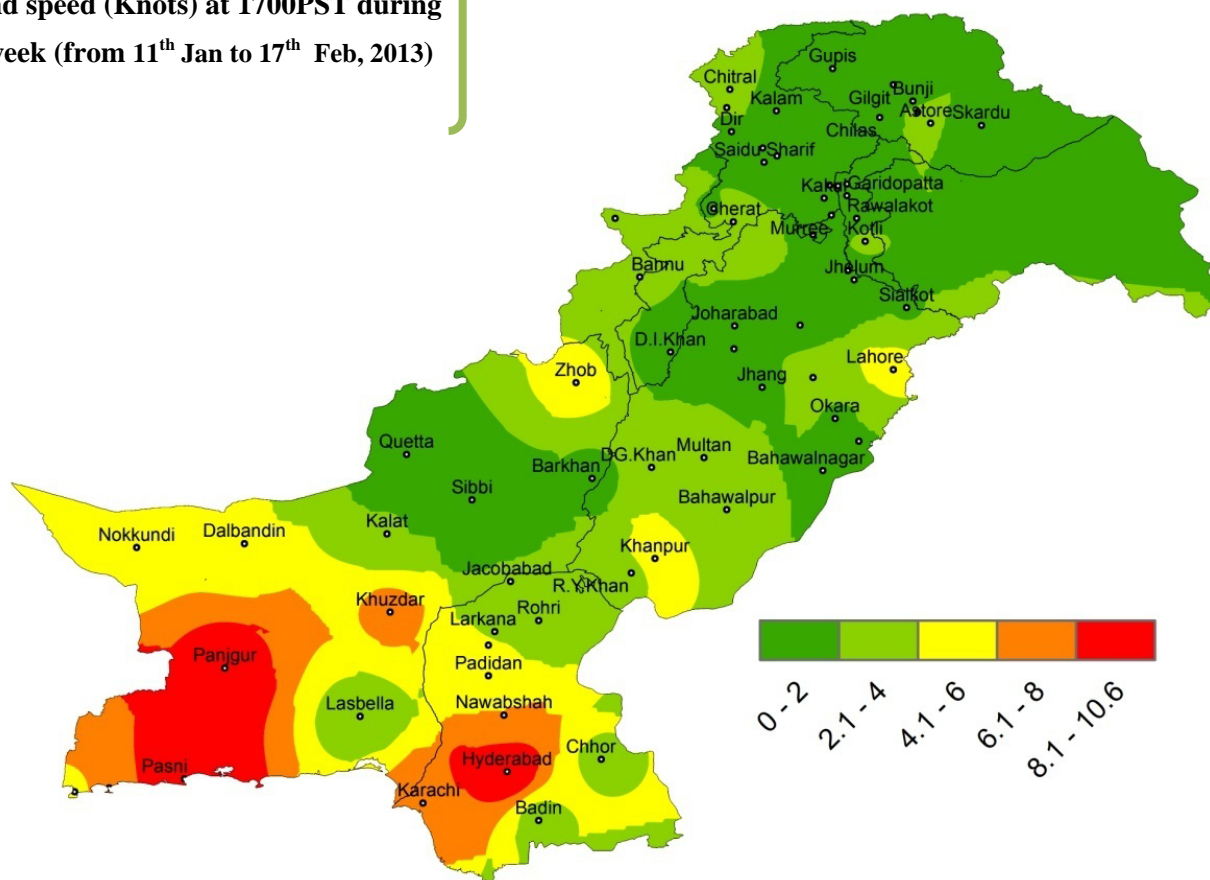
Mean Cloudiness (Oktas) at 1700PST during
the last week (from 11th Jan to 17th Feb, 2013)



Mean wind speed (Knots) at 0800 PST during
the last week (from 11th Jan to 17th Feb, 2013)



Mean wind speed (Knots) at 1700 PST during
the last week (from 11th Jan to 17th Feb, 2013)



Weekly Weather advisory for Farmers (from 18th to 24th February, 2013)

Continental air would prevail over most parts of the Country during first half of the week. However, a fresh westerly wave is likely to approach western and upper parts of the country through Balochistan on Wednesday and likely to persist 2 to 3 days in different parts of the country.

Punjab including Islamabad:

Mainly cold & dry weather is expected in most parts of the province during first half of the week. However, thunderstorm-rain with snowfall over the hills is likely at scattered places of upper & central parts of the province including Islamabad during second half of the week.

Khyber Pakhtunkhwa:

Mainly cold & dry weather is expected in most parts of the province during first half of the week. However, Thunderstorm-rain with snowfall over the hills is likely at isolated upper parts of the provinces on Monday/Tuesday. While, at scattered places of the Province during second half of the week.

Balochistan:

Thunderstorm-rain with light snowfall over the hills is likely at isolated places of Balochistan during Monday (evening/night)/Tuesday. While, scattered Rain-Thunderstorm with light snowfall over the hills is expected from Wednesday (evening/Night) to Friday.

Sindh:

Mainly cold & dry weather is expected in most parts of the province during the week. However, thunderstorm-light rain is likely at isolated places of the upper parts of the Province during Monday (night)/Tuesday (morning) and Thursday/Friday.

Kashmir:

Mainly cold & dry with partly cloudy conditions is expected in most parts of Kashmir during first half of the week. However, thunderstorm-rain with

snowfall over the hills is likely at scattered places of Kashmir during second half of the week.

Gilgit-Baltistan:

Mainly cold & dry with partly cloudy to cloudy conditions is expected in most parts of Gilgit-Baltistan during first half of the week. However, rain with snowfall over the hills is likely at scattered places of GB during second half of the week.

Advises 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 11th Jan to 17th Feb, 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	-4.1	-9.7	6.5	63	0.0	5.1	4.6	1.4	2.0
Badin	11.1	9.5	***	57	0.0	2.2	1.9	1.7	2.9
Bahawalnagar	10.4	7.2	90.5	74	6.0	2.4	4.4	0.3	2.0
Bahawalpur	10.5	9.2	78.5	75	12.0	2.0	4.9	0.6	2.0
Balakot	4.8	3.2	77.8	68	20.0	3.6	5.4	0.3	0.9
Bannu	7.8	5.2	55.8	68	0.2	3.4	3.2	0.3	2.7
Barkhan	5.2	4.0	78.1	56	35.1	3.5	5.1	0.3	1.1
Bunji	3.9	1.7	***	54	1.0	7.1	6.9	0.0	0.9
Cherat	4.2	3.0	30.5	57	3.0	4.4	4.4	1.4	3.7
Chhor	9.7	7.5	102.9	55	0.0	1.5	2.4	1.0	3.4
Chilas	5.1	4.5	37.5	49	0.1	6.6	5.3	0.6	0.6
Chitral	-1.2	-3.0	28.7	57	0.0	3.9	4.3	2.3	3.4
D.I.Khan	8.9	7.5	34.1	75	4.0	3.1	2.9	0.6	0.6
Dalbandin	4.7	1.0	51.5	51	9.0	2.8	2.6	3.3	4.3
DG.Khan	10.9	10.0	61.3	69	1.1	3.6	4.0	2.9	3.1
Dir	-1.8	-3.5	***	66	4.0	4.6	5.0	0.0	1.4
Drosh	-1.6	-2.8	22.1	47	0.0	4.1	4.9	0.0	2.0
Faisalabad	8.4	6.5	82.9	72	7.3	3.5	4.6	1.7	3.7
Garidopatta	4.9	3.0	48.3	65	16.0	3.1	3.4	0.0	0.6
Gawader	11.9	10.5	79	67	0.0	0.0	0.4	0.0	7.7
Gilgit	1.3	-1.0	31.5	58	3.1	6.1	5.9	0.0	0.9
Gupis	-4.6	-6.0	***	49	0.0	4.0	5.0	2.0	1.4
Hyderabad	13.7	9.2	***	49	2.0	0.3	1.1	14.0	10.6
Islamabad	6.6	4.0	60.6	70	8.1	4.7	5.3	0.0	1.7
Jacobabad	12.6	11.5	93.6	63	17.0	2.5	2.3	0.3	2.0
Jhang	7.3	4.5	65.2	74	0.0	2.5	3.3	0.0	1.1
Jhelum	8.3	5.6	62.3	70	5.0	3.6	5.0	0.6	1.1
Jiwani	17.1	16.0	***	65	0.0	0.3	1.6	1.3	5.1
Joharabad	7.7	6.5	72.8	79	3.1	2.3	3.4	0.3	1.4
Kakul	2.0	0.5	9.1	66	11.0	4.0	4.7	0.3	1.1
Kalam	-4.9	-7.5	6.54	69	0.0	3.3	5.6	0.0	0.0
Kalat	-1.4	-4.5	61	54	28.0	3.2	5.1	0.7	2.3
Karachi	15.6	13.0	109.1	45	9.1	2.0	0.4	2.7	7.1
Khanpur	10.5	7.4	74.1	71	11.1	4.1	4.0	0.6	5.1
Khuzdar	6.9	3.5	23.5	40	23.0	1.2	3.3	1.3	6.9
Kotli	7.9	5.0	13.3	68	3.0	5.3	5.1	0.9	2.3
Lahore	9.9	8.3	70.9	70	22.1	4.3	4.6	0.0	4.9
Larkana	12.0	10.0	104.5	60	3.0	2.3	1.7	2.7	3.1
Lasbella	9.6	6.5	91.5	43	0.1	2.2	0.3	2.0	2.6
Lower Dir	3.3	2.5	22.7	75	1.0	2.9	4.1	1.1	2.0
M.B Din	9.1	7.0	68.2	77	24.0	3.7	4.7	0.0	0.9
Malam Jabba	-3.8	-5.5	16.5	80	40.0	2.5	5.1	1.0	0.6
Mangla	7.5	5.6	73.8	70	3.0	5.4	5.6	2.6	1.7
Mir Khani	-1.4	-2.3	***	54	0.0	2.1	2.9	1.3	3.1
Moinjodaro	9.8	8.5	***	61	1.0	2.0	1.4	0.7	4.9

Multan	11.6	10.0	81.5	74	2.2	3.9	5.4	0.9	3.7
Murree	1.7	-1.0	22.3	71	8.0	3.7	5.7	1.7	1.7
Muzaffarabad	6.2	4.8	55.5	68	21.0	5.4	5.7	0.0	1.6
Nawabshah	9.6	7.5	87.3	62	17.0	1.2	1.6	4.2	6.0
Nokkundi	7.9	3.9	***	31	0.4	2.3	2.3	3.0	4.9
Okara	10.0	8.5	69.7	74	17.0	3.8	4.6	1.4	1.7
Padidan	10.9	9.5	83	70	0.1	1.2	1.7	2.7	4.9
Panjgur	7.8	2.5	73	40	0.0	2.3	2.3	6.0	9.7
Parachinar	-9.2	-10.0	***	65	11.0	4.9	5.1	3.0	3.0
Pasni	14.4	12.0	104.3	59	0.0	0.7	0.3	1.7	10.3
Pattan	5.8	4.0	***	68	31.0	3.1	3.2	0.0	0.0
Peshawar	8.2	6.5	65.4	68	0.2	3.6	3.4	1.1	1.7
Quetta	0.4	-3.5	37.3	63	12.1	5.3	6.1	1.3	0.9
R.Y.Khan	10.8	8.3	81.4	70	11.1	3.1	3.7	7.6	3.4
Rawalakot	0.6	-1.5	***	74	8.0	4.7	5.6	0.0	1.4
Rohri	13.2	11.0	85.8	63	9.0	1.7	2.1	2.0	3.4
Sahiwal	8.3	6.5	71.2	76	32.0	3.3	3.1	1.1	2.0
Saidu Sharif	4.9	4.0	40.5	65	4.0	3.1	4.3	0.0	0.0
Sialkot	8.3	5.0	61.2	76	10.0	6.2	5.1	0.0	1.9
Sibbi	5.2	3.0	48.3	58	12.0	1.3	3.0	0.0	0.0
Skardu	-3.6	-6.6	10.8	64	2.1	6.4	6.6	0.0	0.0
Zhob	2.9	1.0	54.5	48	4.0	3.3	5.6	5.0	5.0

***Data not available