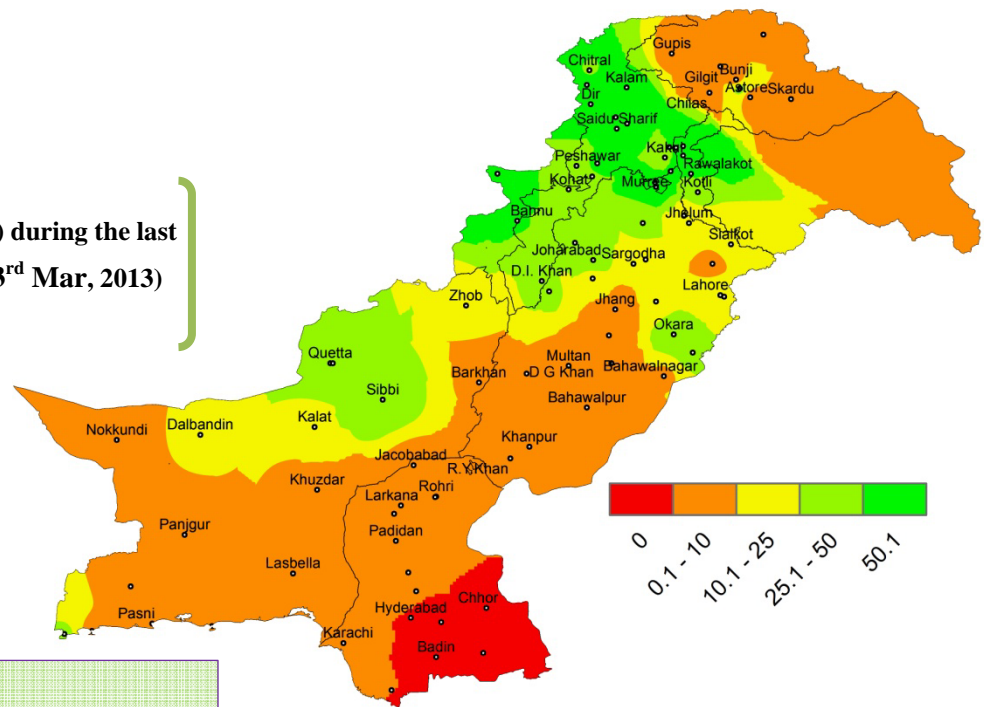


Weekly Weather and Crop Bulletin for Pakistan

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Rainfall distribution (mm) during the last week (from 25th Feb to 3rd Mar, 2013)



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Highlights of Past Weather (25th Feb to 3rd Mar, 2013)

Light to moderate rainfall occurred in most of the agricultural plains of the country.

Patron-in-Chief: Arif Mahmood (Director General)
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 23.4°C & 9.9°C respectively. For the present season on average 80.5 growing degree days accumulated by the end of last week. Average relative humidity recorded as 68% and wind speed in the morning/evening recorded as 2.1/2.7 Knots. During the previous week the highest rainfall recorded at Islamabad as 64.1 mm and extreme minimum temperature recorded at Murree as -0.6 °C.

Sindh

Rainfall reported as Trace (indeterminate amount) from few places of the province during the week. Weekly maximum temperature and minimum temperature recorded as 28.4°C & 12.5°C respectively. For the present season on average 63.0 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 2.0/5.0 Knots. During the previous week the Trace (indeterminate amount) rainfall reported at Jacobabad, Sukkur, Padidan, Karachi and extreme minimum temperature recorded as 9.0 °C at Mithi.

Khyber Pakhtoon Khawa

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 15.4°C & 3.6°C respectively. For the present season on average 26.5 growing degree days accumulated by the end of last week. Average relative humidity recorded as 68 % and wind speed in the morning/evening recorded as 1.1/2.2 Knots. During the previous week the highest rainfall recorded at Dir as 103.0 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 23.0°C & 6.7°C respectively. For the present season on average 70.7 growing degree days accumulated by the end of last week. Average relative humidity recorded as 46 % and wind speed in the morning/evening recorded as 2.3/4.6 Knots. During the previous week the highest rainfall recorded at Sibbi as 48.0 mm and extreme minimum temperature recorded as -4.0°C at Kalat.

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 15.0°C & -2.7°C respectively. For the present season on average 27.8 growing degree days accumulated by the end of last week. Average relative humidity recorded as 58 % and wind speed in the morning/evening recorded as 1.2/2.0 Knots. During the previous week the highest rainfall recorded at Garhidoppta as 100.0 mm and extreme minimum temperature recorded as -8.5°C at Astore.

Past Weather for Major Agricultural Plains**(25th February to 3rd March, 2013)****Rawalpindi (Potohar region)**

Rainfall reported as 57.2 mm during the week however cloudiness in the morning/evening as 3.4/3.8 Oktas while average relative humidity observed as 84%. Mean night temperature recorded as 14.0°C & for the present season 63.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.0/1.6 Km/h.

Faisalabad (Central Punjab)

Rainfall reported as 18.2 mm during the week however cloudiness in the morning/evening as 1.6/3.7 Oktas while average relative humidity observed as 60%. Mean night temperature recorded as 16.7°C & for the present season 81.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.1/3.1 Km/h.

Tandojam (Lower Sindh)

No rainfall reported during the week, however cloudiness in the morning/evening as 0.0/0.3 Oktas while average relative humidity observed as 55%. Mean night temperature recorded as 19.1°C & for the present season 98.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.4/2.9 Km/h.

Quetta (Northern Balochistan)

Rainfall reported as 17.6 mm during the week however cloudiness in the morning/evening as 3.1/3.7 Oktas while average relative humidity observed as 53%. Mean night temperature observed as 8.1°C & for the present season 21.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 5.1/5.8 Km/h.

Usta Muhammad (Eastern Balochistan)

No rainfall reported during the week, however cloudiness in the morning/evening as 0.0/0.0 Oktas while average relative humidity observed as 85%.

Mean night temperature recorded as 18.5°C & for the present season 94.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.1/3.2 Km/h.

Past Weather for sub regional Agri-cultural Plains (from 25th February to 3rd March, 2013)**Rohri**

No rainfall reported during the week however cloudiness in the morning/evening as 1.2/2.1 Oktas while average relative humidity observed as 68%. Mean night temperature recorded as 13.3°C & for the present season 111.0 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 1.0/2.9 Knots.

Multan

Trace (indeterminate amount) during the week however cloudiness in the morning/evening as 1.5/3.4 Oktas while average relative humidity observed as 68%. Mean night temperature recorded as 10.7°C & for the present season 88.5 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 0.0/4.0 Knots.

Lahore

Rainfall reported as 14.0 mm during the week however cloudiness in the morning/evening as 2.1/2.4 Oktas while average relative humidity observed as 46%. Mean night temperature recorded as 10.2°C & for the present season 82.2 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 1.9/4.9 Knots.

Zhob

Rainfall reported as 13.0 mm during the week however cloudiness in the morning/evening as 3.2/1.5 Oktas while average relative humidity observed as 46%. Mean night temperature recorded as 3.8°C & for the present season 47.8 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 4.0/5.0 Knots.

D.I. Khan

Rainfall reported as 27.0 mm during the week however cloudiness in the morning/evening as 1.1/1.9 Oktas while average relative humidity observed as 70%. Mean night temperature recorded as 9.6°C & for the present season 80.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/1.1 Knots.

Peshawar

Rainfall reported as 24.0 mm during the week however cloudiness in the morning/evening as 3.5/3.8 Oktas while average relative humidity observed as 70%. Mean night temperature recorded as 8.4°C. Wind speed recorded in the morning/evening as 0.7/1.7 Knots.

Murree

Precipitation reported as 52.0 mm during the week however cloudiness in the morning/evening as 3.4/3.7 Oktas while average relative humidity observed as 58%. Mean night temperature recorded as 3.5°C. Wind speed recorded in the morning/evening as 5.4/2.0Knots.

Kalam

Precipitation reported as 68.0 mm during the week however cloudiness in the morning/evening as 4.3/4.6 Oktas while average relative humidity observed as 79%. Mean night temperature recorded as -3.1°C & Wind speed recorded in the morning/evening as 2.9/0.3Knots

Gilgit.

Rainfall reported as Trace (indeterminate amount) during the week, however cloudiness in the morning/evening as 4.0/4.7 Oktas while average relative humidity observed as 49%. Mean night temperature recorded as 2.9°C & for the present season 33.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/2.0 Knots.

Skardu

Precipitation reported as 1.2 mm during the week however cloudiness in the morning/evening as 4.3/5.1 Oktas while average relative humidity observed as 53%. Mean night temperature recorded as -1.4°C and wind speed recorded in the morning/evening as 0.0/1.0 Knots.

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 *Heading* stage completed.

Lower Sindh (Tandojam)

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

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

Northern Balochistan (Quetta)

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

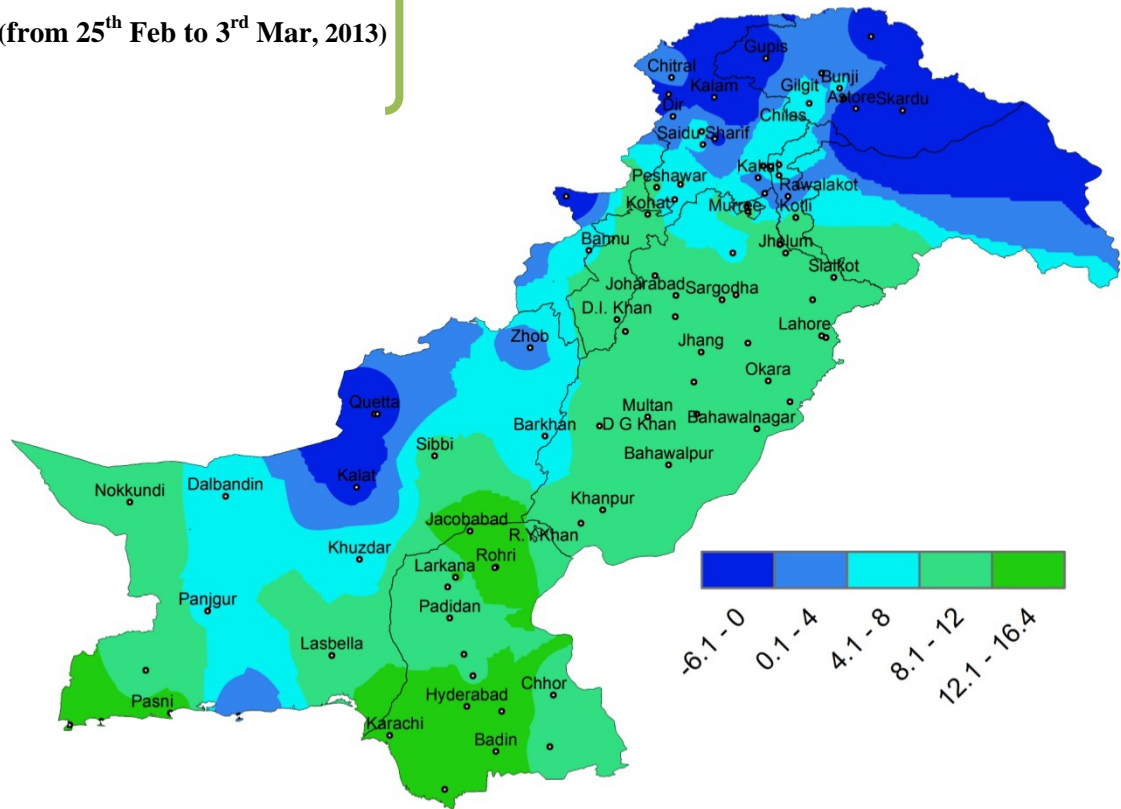
Wheat: Good condition at *Tillering* stage.

Eastern Balochistan (Usta Muhammad)

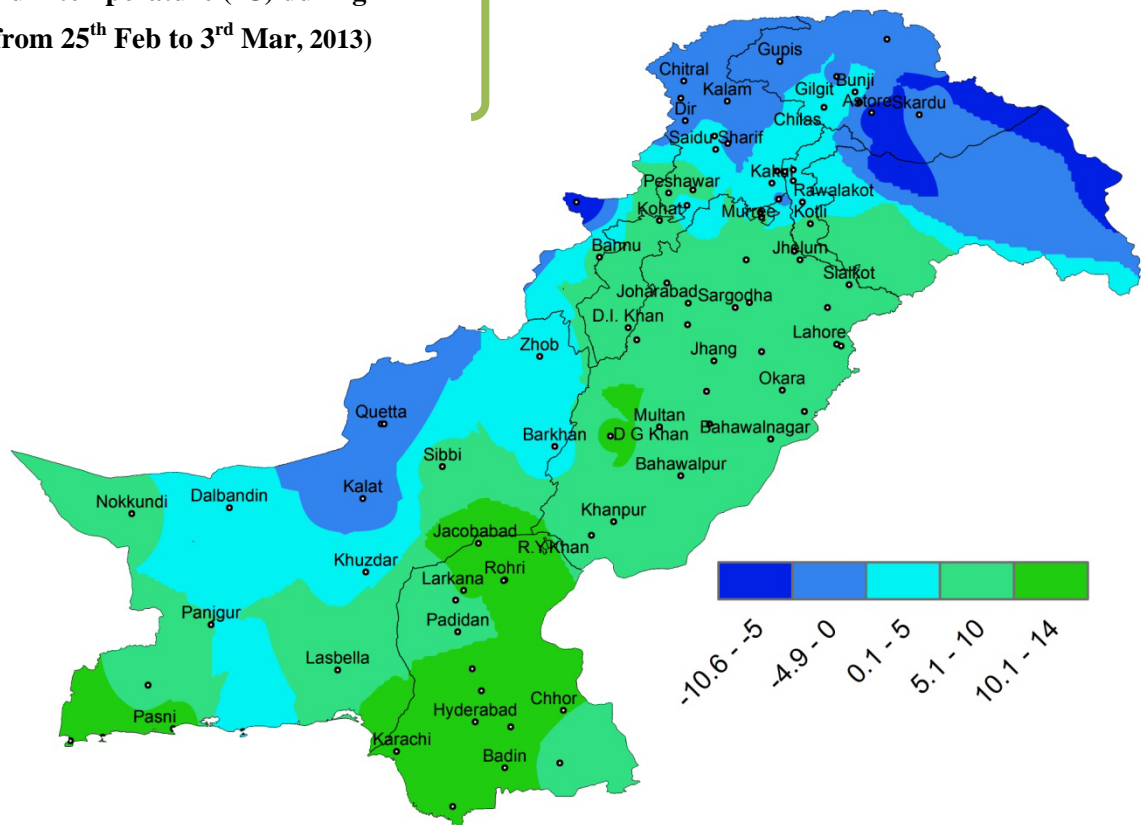
There is presently one crop (irrigated conditions) grown in the fields as detailed below.

Wheat: Good condition at *Shooting started*.

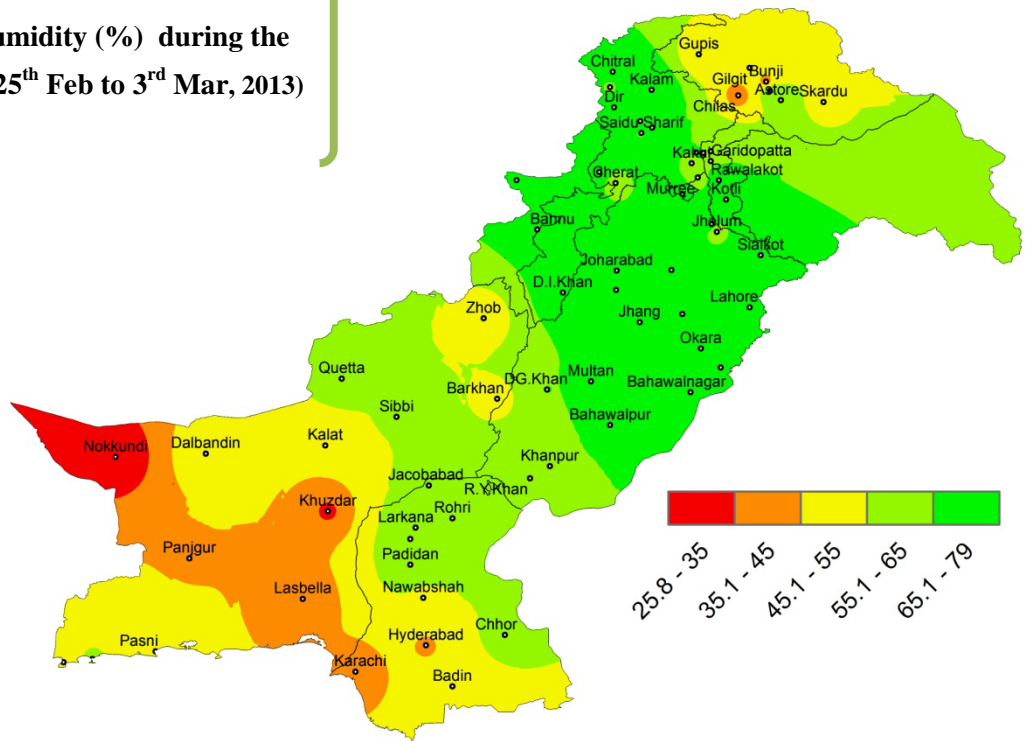
Mean minimum temperature (°C) during the last week (from 25th Feb to 3rd Mar, 2013)



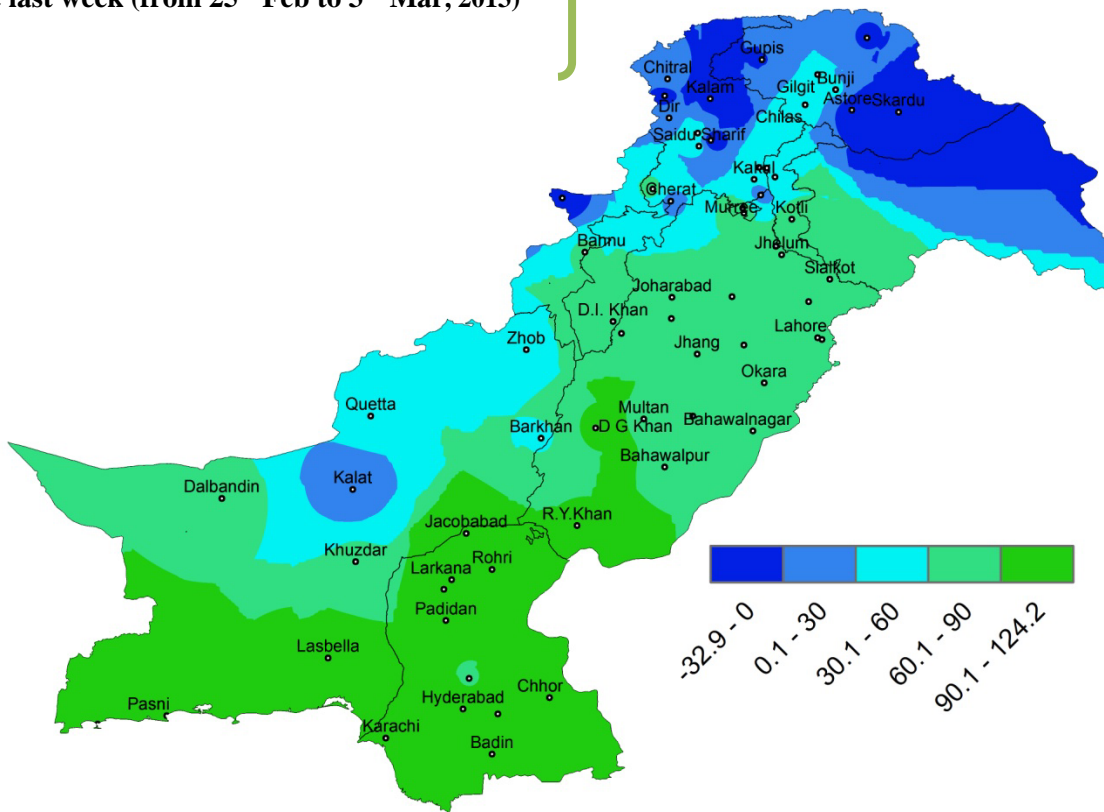
Extreme minimum temperature (°C) during the last week (from 25th Feb to 3rd Mar, 2013)



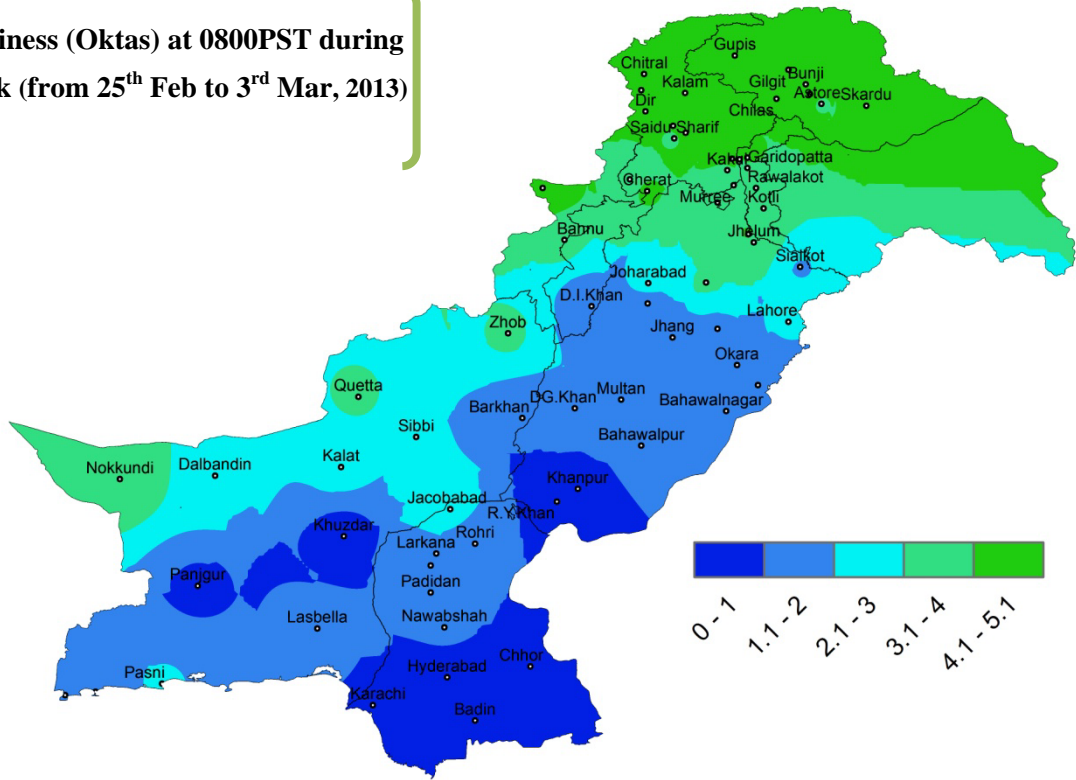
Mean relative humidity (%) during the last week (from 25th Feb to 3rd Mar, 2013)



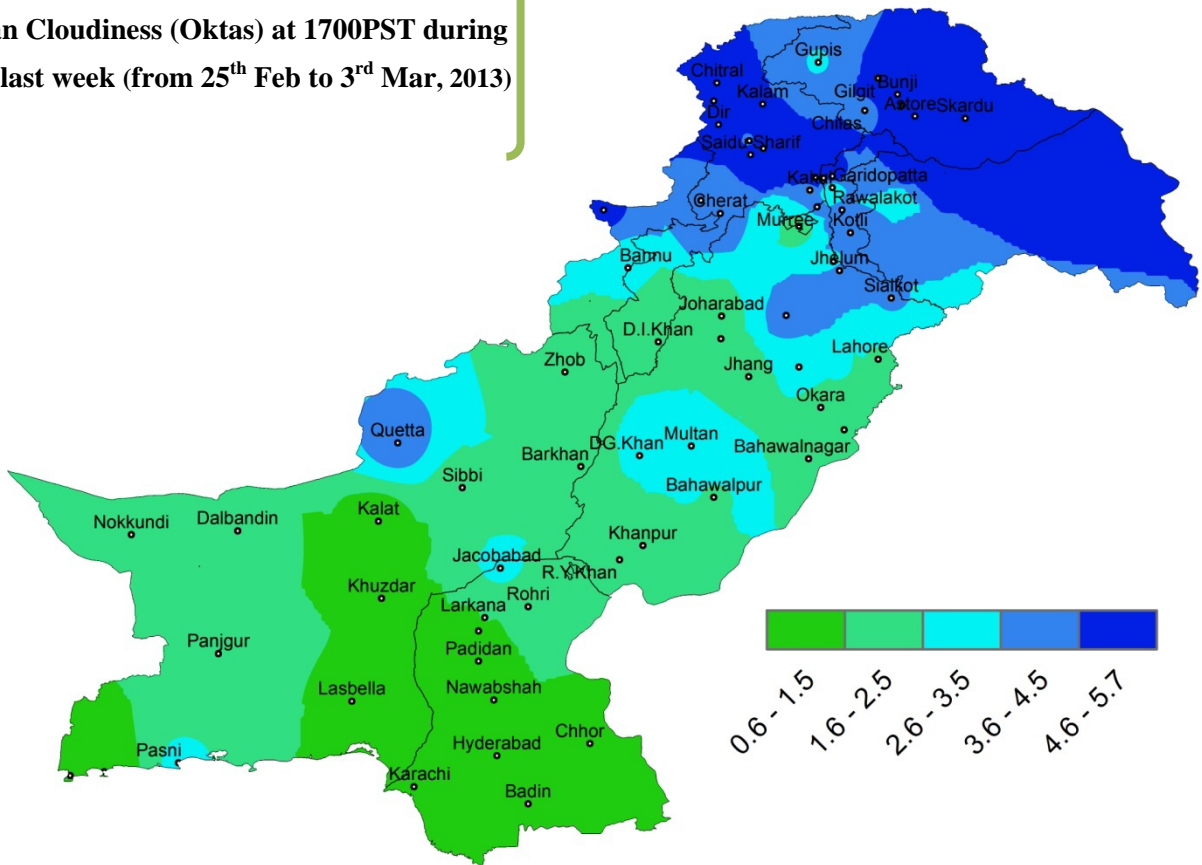
Total growing degree days accumulated during the last week (from 25th Feb to 3rd Mar, 2013)



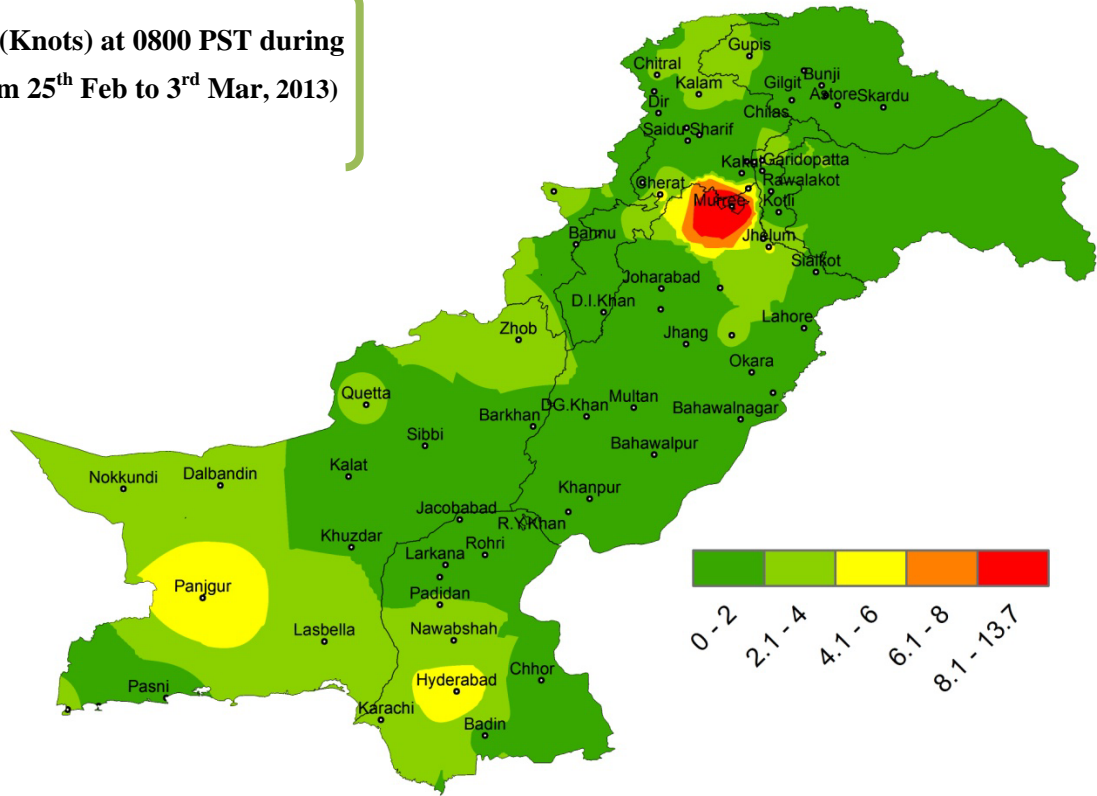
Mean Cloudiness (Oktas) at 0800PST during the last week (from 25th Feb to 3rd Mar, 2013)



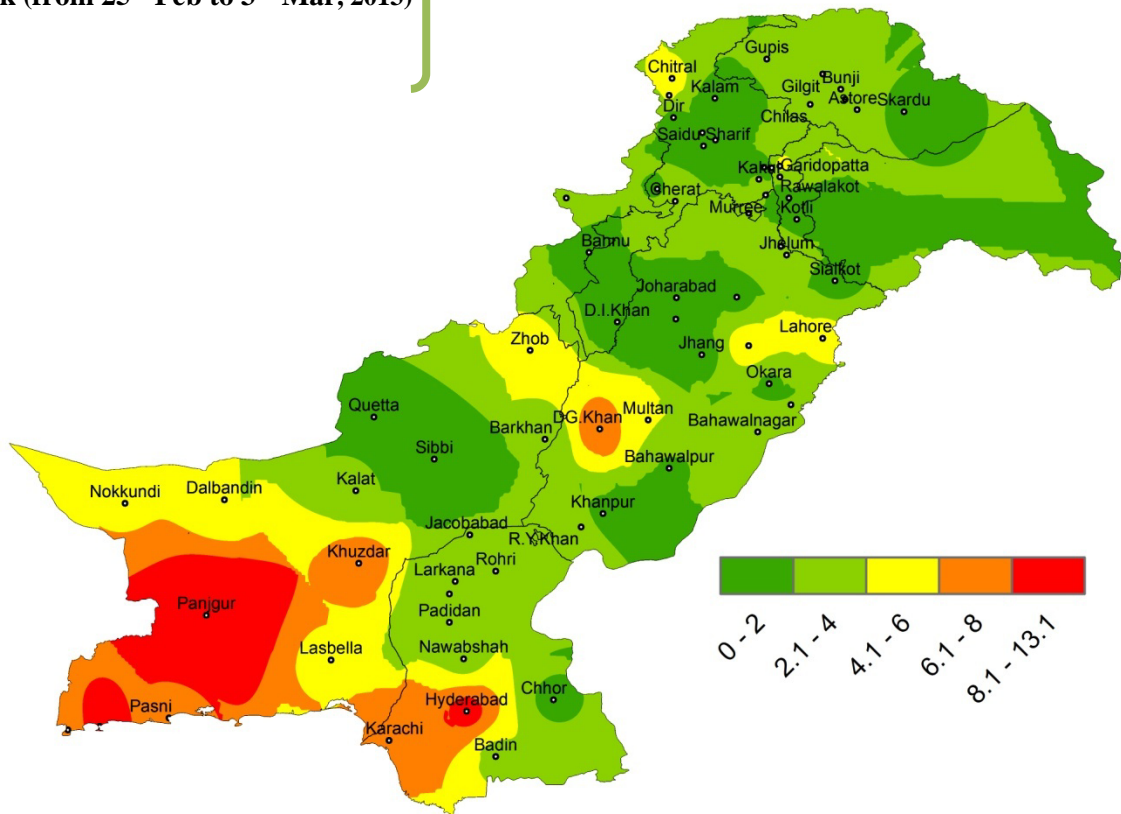
Mean Cloudiness (Oktas) at 1700PST during the last week (from 25th Feb to 3rd Mar, 2013)



Mean wind speed (Knots) at 0800 PST during the last week (from 25th Feb to 3rd Mar, 2013)



Mean wind speed (Knots) at 1700 PST during the last week (from 25th Feb to 3rd Mar, 2013)



Weekly Weather advisory for Farmers (from 4th March to 10th March, 2013)

A fresh westerly wave is likely to approach western and upper parts of the country during Monday (Evening/ night) and likely to grip upper parts of the country during next 24 hours. This weather system is expected to persist till Wednesday. Continental air would prevail over most parts of the country during rest of the week.

Punjab including Islamabad:

Scattered rain-Thunderstorm with snow fall over the hills is expected in Punjab including Islamabad on Tuesday and Wednesday. Cold and Dry weather is expected over most parts of the province during second half of the week..

Khyber Pakhtunkhwa:

Isolated rain-thunderstorm is expected in western parts of the province (D.I.Khan, Malakand and Peshawar divisions) on Monday, while scattered rain-Thunderstorm with snow fall over the hills (isolated heavy falls in Peshawar, Kohat and Bannu divisions) is expected in the province on Tuesday and Wednesday. Cold and Dry weather is expected over most parts of the province during second half of the week...

Balochistan:

Scattered rain-Thunderstorm with snow fall over the hills is expected in Balochistan (Quetta, Zhob, Sibbi and Kalat divisions) on Monday (evening/night) and Tuesday. Cold and Dry weather is expected over most parts of the province during rest of the week.

Sindh:

Isolated rain-thunderstorm is likely at isolated places of upper Sindh (Sukkur and Larkana divisions) on Monday (evening/night) and Tuesday. Cold and Dry weather is expected over most parts of the province during rest of the week..

Kashmir:

Isolated rain-thunderstorm is expected in Kashmir on Monday, while scattered rain-Thunderstorm with snow fall over the hills is expected during Tuesday and Wednesday. Cold and Dry weather is expected during second half of the week

Gilgit-Baltistan:

Isolated rain-thunderstorm is expected in Gilgit-Baltistan on Monday, while scattered rain with snow fall over the hills is expected during Tuesday to Thursday. Cold and Dry weather is expected during rest 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 25th Feb to 3rd Mar, 2013)

Stations	Minimum/Night Temperature (°C)		Growing Deg. Days	Relative Humidity (%)	Rainfall (mm)	Cloudiness (Oktas) 0800PST	Cloudiness (Oktas) 1700PST	Wind Speed (Knots) 0800PST	Wind Speed (Knots) 1700PST
	Mean	Lowest							
Astore	-5.4	-9.0	-31.2	58	0.1	3.9	5.3	1.4	3.7
Badin	14.0	13.0	118.3	47	0.0	0.3	0.6	1.7	3.4
Bahawalnagar	10.7	9.3	89.2	71	5.0	1.2	2.4	0.6	3.1
Bahawalpur	9.7	8.5	89.2	68	2.0	1.6	2.4	0.0	1.7
Balakot	5.2	3.9	48.7	65	50.0	5.1	5.3	0.7	0.9
Bannu	7.9	6.0	65.7	69	52.0	3.1	2.6	1.1	1.4
Barkhan	5.1	3.0	57.0	51	5.0	1.2	2.0	0.7	2.0
Bunji	5.8	2.7	36.5	40	0.0	5.1	5.3	0.6	2.0
Cherat	4.1	2.5	20.5	62	48.0	4.1	3.9	4.3	4.0
Chhor	11.3	10.0	113.4	59	0.0	0.3	1.1	0.3	1.4
Chilas	5.9	4.2	48.0	39	0.0	4.6	4.3	0.6	2.9
Chitral	1.5	-0.3	9.6	70	40.0	4.6	4.9	2.6	4.6
D.g.khan	9.6	8.5	80.0	70	27.0	1.1	1.9	0.3	1.1
D.i.khan	6.4	2.5	74.5	52	16.0	2.7	2.1	3.0	4.0
Dalbandin	11.9	10.6	95.4	65	10.0	1.8	2.6	2.0	7.6
Dir	0.3	-1.5	14.9	74	103.0	4.4	5.1	0.0	1.4
Drosh	-2.1	-3.9	-7.7	63	91.0	4.4	5.7	0.0	4.1
Faisalabad	9.7	8.5	81.5	67	13.0	1.8	3.1	2.3	5.7
Garhi dopatta	4.5	1.5	59.8	64	100.0	2.9	2.3	0.0	2.0
Gawadar	14.3	14.0	111.0	56	5.0	1.3	0.6	1.3	9.4
Gilgit	2.9	-1.0	33.4	49	0.1	4.0	4.7	0.0	2.0

Gupis	-1.3	-2.0	-1.0	46	0.0	4.4	3.4	2.3	2.3
Hyderabad	13.9	12.5	115.7	44	0.0	0.0	1.0	5.7	8.9
Islamabad zp	7.7	5.2	65.6	73	53.0	3.1	2.0	13.7	2.1
Jacobabad	12.8	11.0	100.5	56	0.1	2.5	2.7	0.0	2.0
Jhang	9.1	7.5	81.9	71	5.0	1.3	1.9	0.6	1.1
Jhelum	10.4	9.5	87.5	63	15.1	3.3	3.6	4.3	2.0
Jiwani	16.4	13.0	***	54	29.0	1.8	1.1	2.4	6.6
Joharabad	9.9	9.0	82.7	73	42.0	2.7	2.1	0.3	1.7
Kakul	3.0	1.0	32.9	64	42.0	3.6	4.1	0.0	2.3
Kalam	-3.1	-5.0	-12.0	79	68.0	4.3	4.6	2.9	0.3
Kalat	-0.8	-4.0	4.5	47	17.0	2.5	0.7	1.0	2.3
Karachi airport	15.6	14.0	123.4	40	0.1	1.0	0.6	3.0	19.7
Khanpur	9.3	8.5	79.7	63	0.0	0.4	1.8	0.3	1.3
Khuzdar	7.1	5.0	67.3	33	2.0	0.5	1.4	2.0	7.4
Kotli	9.5	7.5	76.1	67	32.0	3.7	3.7	0.6	0.9
Lahore	9.4	8.6	79.6	67	14.0	2.1	2.4	1.9	4.9
Larkana	12.5	11.5	102.2	60	0.0	2.0	1.6	2.0	2.3
Lasbela	10.1	8.0	108.3	37	0.1	1.4	1.3	3.2	5.0
Lower dir	6.1	3.0	50.5	73	54.0	4.0	4.4	1.7	1.4
Malam jabba	11.2	10.0	87.2	67	18.1	3.1	4.0	2.0	1.4
M.B-Din	-2.1	-4.0	-27.9	75	75.0	4.6	5.0	0.0	0.0
Mangla	9.8	9.2	81.2	67	19.0	4.1	3.4	2.9	3.7
Mirkhani	-0.4	-0.8	-3.2	66	35.0	4.3	4.6	0.0	2.9
Moin-jo-daro	9.5	7.0	99.0	60	0.0	1.6	1.0	1.2	2.0
Multan	10.7	9.7	88.5	68	0.1	1.5	3.4	0.0	4.0

Murree	3.5	-0.6	17.1	58	52.0	3.4	3.7	5.4	2.0
Muzaffarabad	6.9	4.4	***	67	49.0	3.4	4.3	0.4	1.3
Nokkundi	10.5	5.6	60.6	26	0.0	3.8	2.0	2.0	5.7
Noorpur thal	10.3	8.0	88.7	70	15.0	1.1	2.3	0.0	0.3
Okara	9.8	8.8	82.8	71	38.0	1.9	2.1	0.6	1.7
Padidan	10.4	9.5	94.5	62	0.1	1.3	1.4	2.3	2.6
Panjgur	7.8	5.0	***	44	0.0	0.8	2.1	5.6	13.1
Parachinar	-6.1	-10.6	-33.1	70	99.0	5.0	4.9	3.0	3.0
Pasni	14.4	13.5	113.5	54	3.0	2.2	2.7	1.3	6.6
Pattan	5.7	2.0	***	58	93.0	5.0	5.7	4.3	5.7
Peshawar	8.4	6.0	73.1	70	24.0	3.5	3.8	0.7	1.7
Quetta	-1.3	-3.0	45.0	61	28.0	3.1	4.3	2.3	2.0
R.Y. Khan	10.3	9.3	94.7	61	0.1	1.0	2.1	0.6	2.9
Rawalakot	1.0	0.0	8.8	74	51.0	4.0	3.9	1.4	1.4
Rohri	13.4	12.5	111.0	57	0.0	1.2	2.1	1.0	2.9
Sahiwal	8.6	7.5	***	71	32.0	1.3	1.6	1.1	2.0
Saidu sharif	4.6	3.5	39.9	63	67.0	3.9	4.6	0.7	0.6
Sialkot	9.8	8.6	76.4	75	15.0	2.0	3.6	0.9	1.4
Sibbi	9.8	8.0	78.0	56	48.0	2.2	2.0	0.3	0.0
Skardu	-1.4	-4.5	-1.2	53	0.0	4.3	5.1	0.0	1.0
Zhob	3.4	0.5	47.8	46	13.0	3.2	1.5	4.0	5.0

*** Data not available