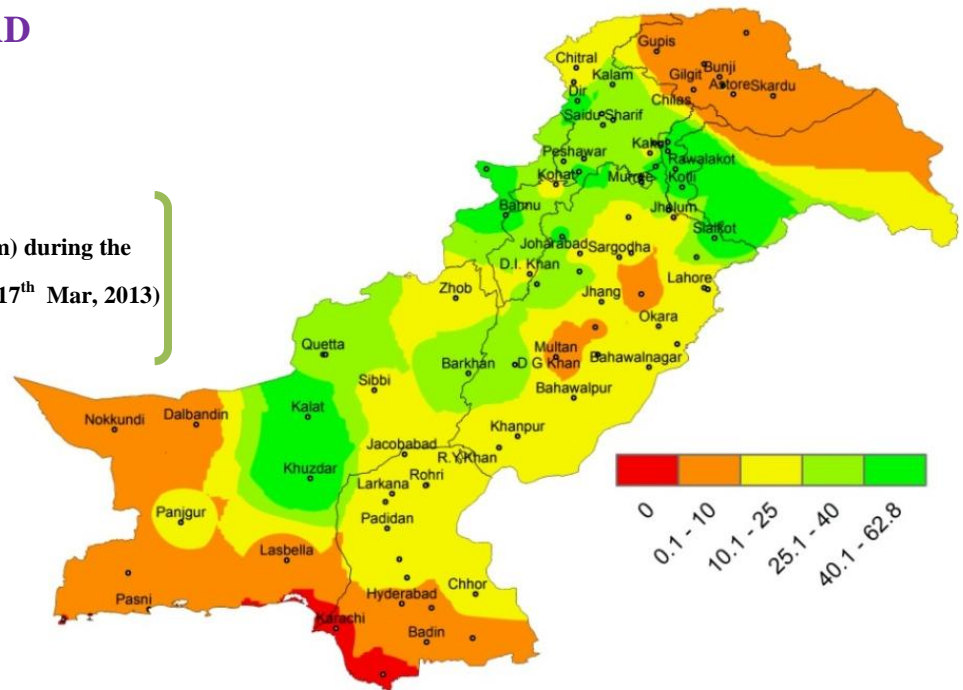


Weekly Weather and Crop Bulletin for Pakistan

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

Phone: +92-51-9250592
email: dirnamc@yahoo.com

Rainfall distribution (mm) during the
Last week (from 11th to 17th Mar, 2013)



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

Light to moderate rainfall occurred in most of the agricultural plains of Punjab, Gilgit Baltistan, Kashmir, KPK and Balochistan during the week. However, light rainfall occurred at few places in agricultural plains of Sindh.

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 24.8°C & 12.9°C respectively. For the present season on average 96.9 growing degree days accumulated by the end of last week. Average relative humidity recorded as 64% and wind speed in the morning/evening recorded as 1.0/2.5 Knots. During the previous week highest amount of rainfall reported at Mianwali as 51.1 mm and extreme minimum temperature recorded at Murree as 3.0 °C.

Sindh

Light rainfall reported from few places in agricultural plains of the province during the week. Weekly maximum temperature and minimum temperature recorded as 32.8°C & 16.4°C respectively. For the present season on average 37.1 growing degree days accumulated by the end of last week. Average relative humidity recorded as 54 % and wind speed in the morning/evening recorded as 1.9/3.6 Knots. During the previous week highest amount of rainfall reported at Rohri as 2.0 mm and extreme minimum temperature recorded as 12.0 °C at Mithi.

Khyber Pakhtoon Khawa

Light rainfall reported precipitation reported from most of the agricultural plains of the province during the week. Weekly maximum temperature and minimum temperature recorded as 18.1°C & 7.3°C respectively. For the present season on average 51.8 growing degree days accumulated by the end of last week. Average relative humidity recorded as 71 % and wind speed in the morning/evening recorded as 0.8/2.0 Knots. During the previous week the highest rainfall

recorded at Dir as 97.0 mm and extreme minimum temperature recorded as -2.0°C at Kalam.

Balochistan

Light to moderate rainfall reported from most of the agricultural plains of the province during the week. Weekly maximum temperature and minimum temperature recorded as 26.7°C & 11.4°C respectively. For the present season on average 48 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 1.5/5.8 Knots. During the previous week highest amount of rainfall reported at Khuzdar as 42.0 mm and extreme minimum temperature recorded as - 0.5°C at Quetta.

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 17.9°C & - 6.4°C respectively. For the present season on average 48.6 growing degree days accumulated by the end of last week. Average relative humidity recorded as 61 % and wind speed in the morning/evening recorded as 0.9/2.9 Knots. During the previous week the highest rainfall recorded at Muzaffarabad as 61.0 mm and extreme minimum temperature recorded as -2.4°C at Astore.

Past Weather for Major Agricultural Plains

(from 11th to 17th Mar, 2013)

Rawalpindi (Potohar region)

Rainfall reported as 31.6 mm during the week however cloudiness in the morning/evening as 3.5/4.2 Oktas while average relative humidity observed as 70%. Mean night temperature recorded as 18.2°C & for the present season 92.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.5/2.2 Km/h.

Faisalabad (Central Punjab)

Rainfall reported as 0.4 mm during during the week however cloudiness in the morning/evening as 4.1/5.7 Oktas while average relative humidity observed as 56%. Mean night temperature recorded as 20.2°C & for the present season 106.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/2.1 Km/h.

Tandojam (Lower Sindh)

No rainfall reported during the week, however cloudiness in the morning/evening as 0.7/1.0 Oktas while average relative humidity observed as 26%. Mean night temperature recorded as 24.5°C & for the present season 136.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.0/2.1 Km/h.

Quetta (Northern Balochistan)

Rainfall reported as 6.4 mm during the week however cloudiness in the morning/evening as 2.4/4.7 Oktas while average relative humidity observed as 41%. Mean night temperature observed as 12.4°C & for the present season 51.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 5.7/6.6 Km/h.

Usta Muhammad (Eastern Balochistan)

Rainfall reported as 2.0 mm during the week, however cloudiness in the morning/evening as

2.4/0.3 Oktas while average relative humidity observed as 68%. Mean night temperature recorded as 23.1°C & for the present season 126.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.6/3.7 Km/h.

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

Rohri

Rainfall reported as 2.0 mm during the week however cloudiness in the morning/evening as 2.0/1.0 Oktas while average relative humidity observed as 74%. Mean night temperature recorded as 18.1°C & for the present season 135.5 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 3.4/3.1 Knots.

Multan

Rainfall reported as 0.2 mm during the week however cloudiness in the morning/evening as 3.0/3.0 Oktas while average relative humidity observed as 61%. Mean night temperature recorded as 13.7°C & for the present season 103.4 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 1.4/3.7 Knots.

Lahore

Rainfall reported as 7.0 mm during the week however cloudiness in the morning/evening as 3.6/2.3 Oktas while average relative humidity observed as 62%. Mean night temperature recorded as 14.7°C & for the present season 106.3 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 0.6/2.6 Knots.

Zhob

Rainfall reported as 4.0 during the week however cloudiness in the morning/evening as 0.7/3.9 Oktas while average relative humidity observed as 48%. Mean night temperature recorded as 9.6°C & for the present season 72.3 growing degree days

accumulated by the end of last week. Wind recorded in the morning/evening as 4.9/7.3 Knots.

D.I. Khan

Rainfall reported as 17.1mm during the week however cloudiness in the morning/evening as 3.3/3.1 Oktas while average relative humidity observed as 67%. Mean night temperature recorded as 12.8°C & for the present season 107.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/2.0 Knots.

Peshawar

Rainfall reported as 17.1mm during the week however cloudiness in the morning/evening as 6.1/6.4 Oktas while average relative humidity observed as 75%. Mean night temperature recorded as 11.7°C & for the present season 88.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/1.4 Knots.

Murree

Rainfall reported as 36.1 mm during the week however cloudiness in the morning/evening as 5.1/5.0 Oktas while average relative humidity observed as 66%. Mean night temperature recorded as 5.5°C & for the present season 25.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 4.0/4.9 Knots.

Kalam

Rainfall reported as 55.0 mm during the week however cloudiness in the morning/evening as 5.9/6.9 Oktas while average relative humidity observed as 83%. Mean night temperature recorded as -0.5°C & Wind speed recorded in the morning/evening as 0.0/0.6 Knots

Gilgit.

Rainfall reported as 1.2 mm during the week, however cloudiness in the morning/evening as 6.3/6.9 Oktas while average relative humidity observed as 55%. Mean night temperature

recorded as 6.7°C & for the present season 55.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/2.9 Knots.

Skardu

No rainfall reported during the week however cloudiness in the morning/evening as 6.0/5.9 Oktas while average relative humidity observed as 47%. Mean night temperature recorded as 4.0°C and wind speed recorded in the morning/evening as 0.0/4.3 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 *Flowering* stage .

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.

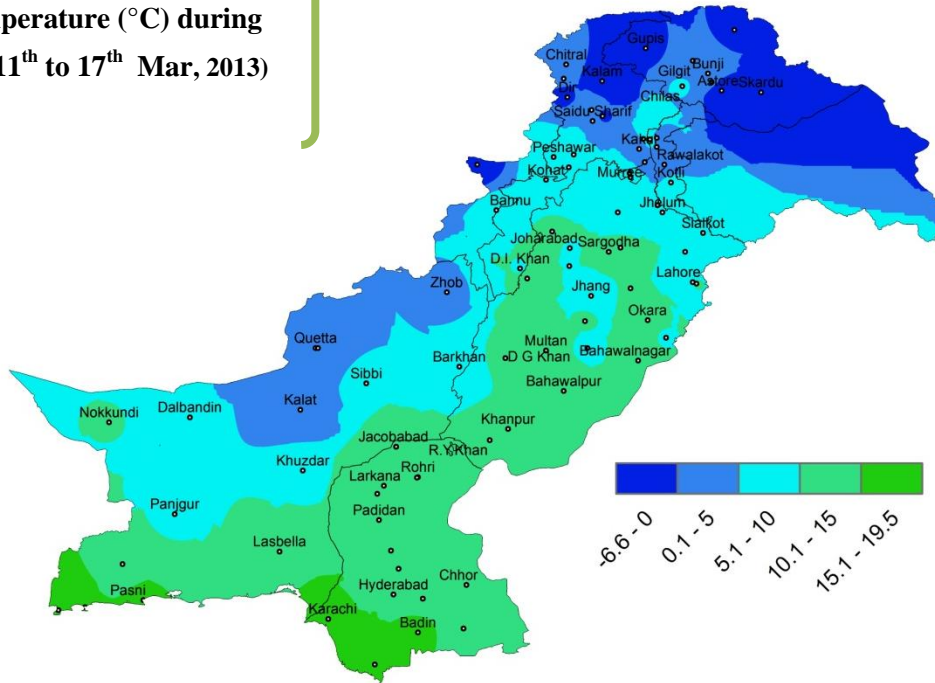
Wheat: Good condition at *Shooting* stage.

Eastern Balochistan (Usta Muhammad)

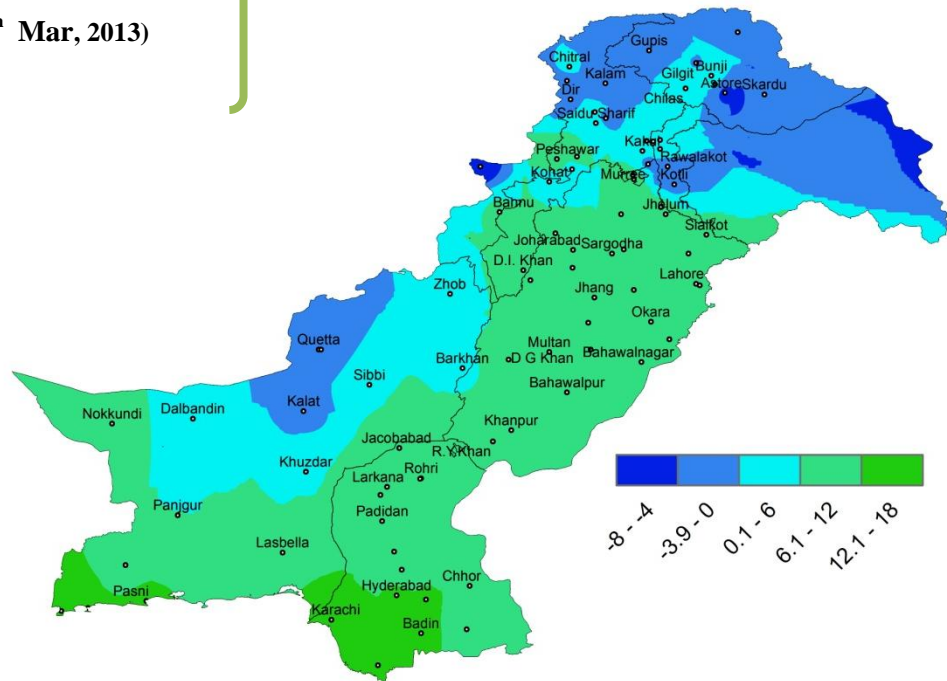
There is presently one crop (irrigated conditions) grown in the fields as detailed below.

Wheat: Good condition at *Heading* stage.

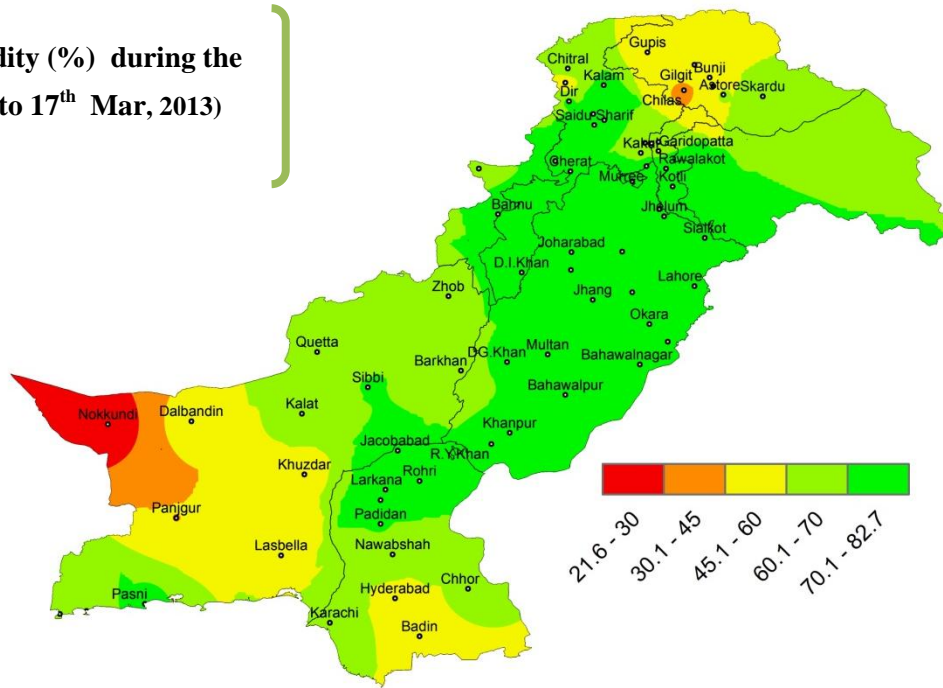
Mean minimum temperature (°C) during the last week (from 11th to 17th Mar, 2013)



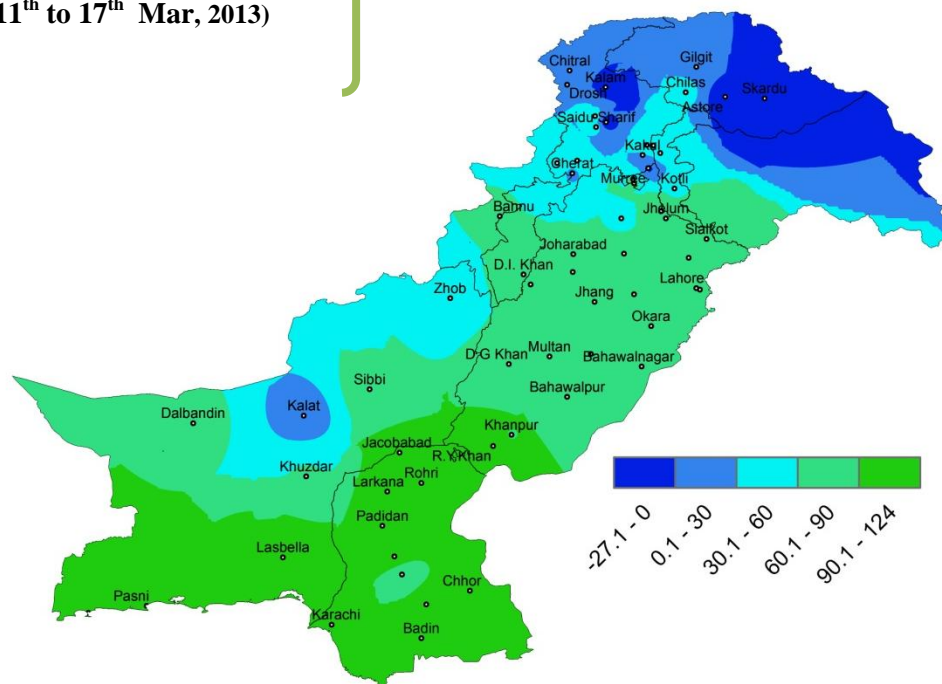
Extreme minimum temperature (°C) during the last week (from 11th to 17th Mar, 2013)



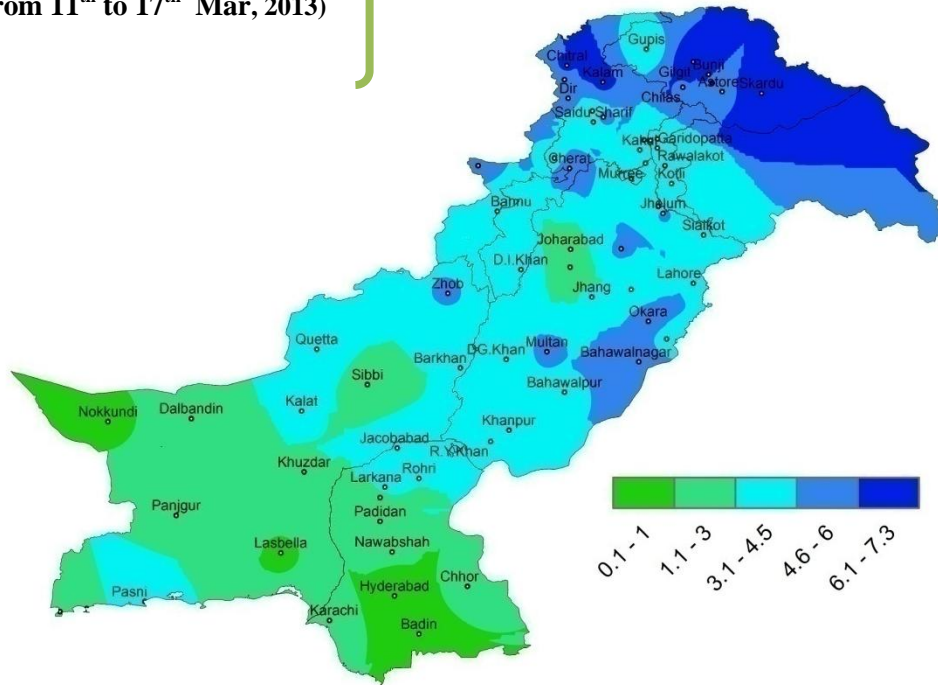
Mean relative humidity (%) during the last week (from 11th to 17th Mar, 2013)



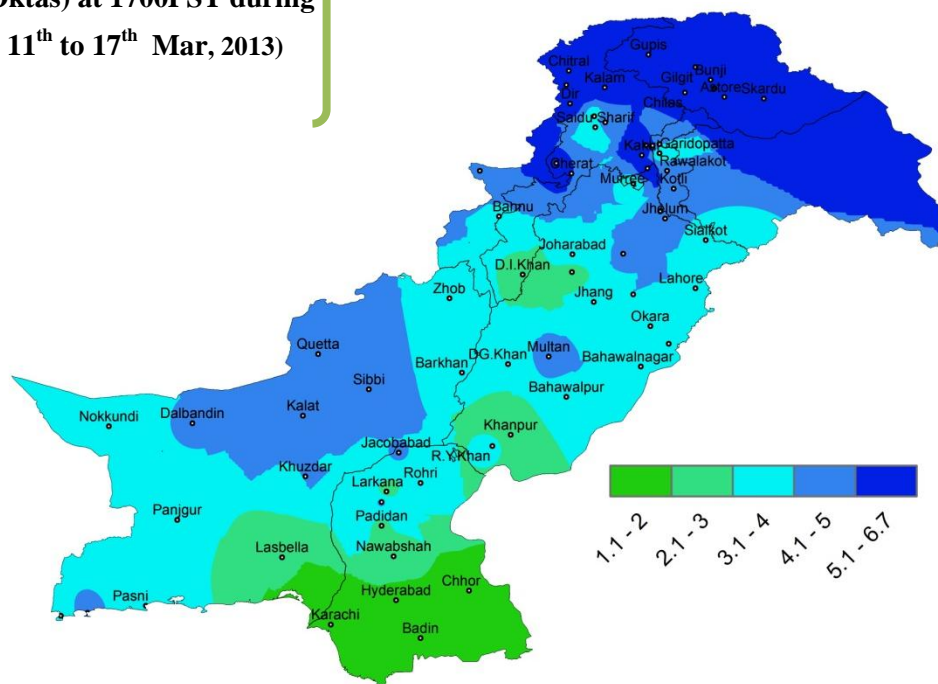
Total growing degree days accumulated during the last week (from 11th to 17th Mar, 2013)



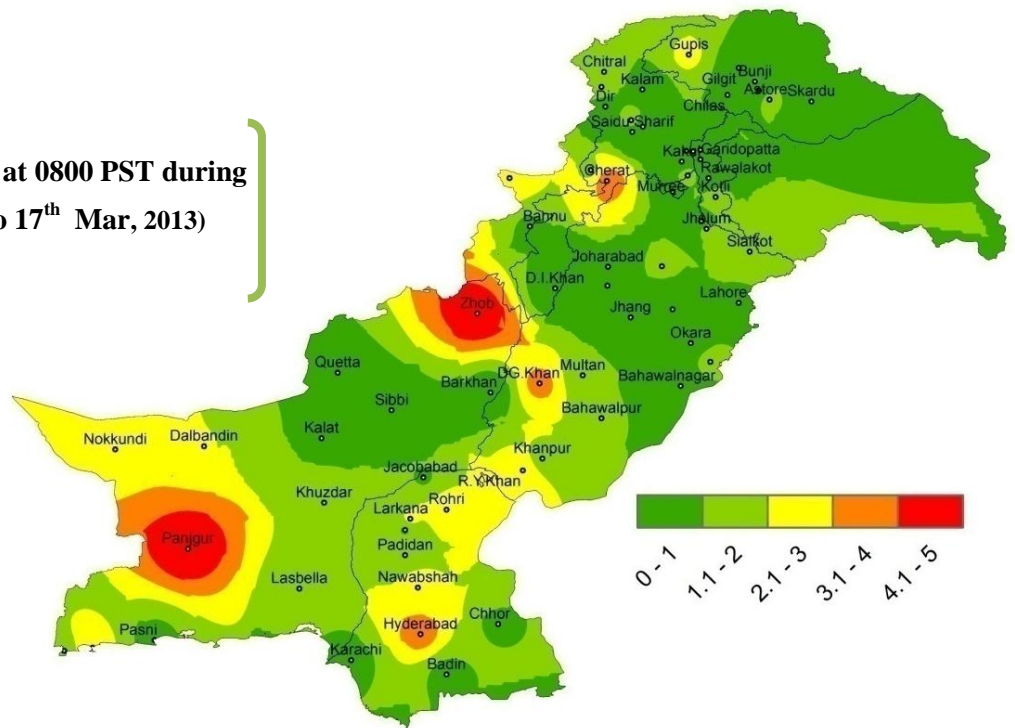
Mean Cloudiness (Oktas) at 0800PST during the last week (from 11th to 17th Mar, 2013)



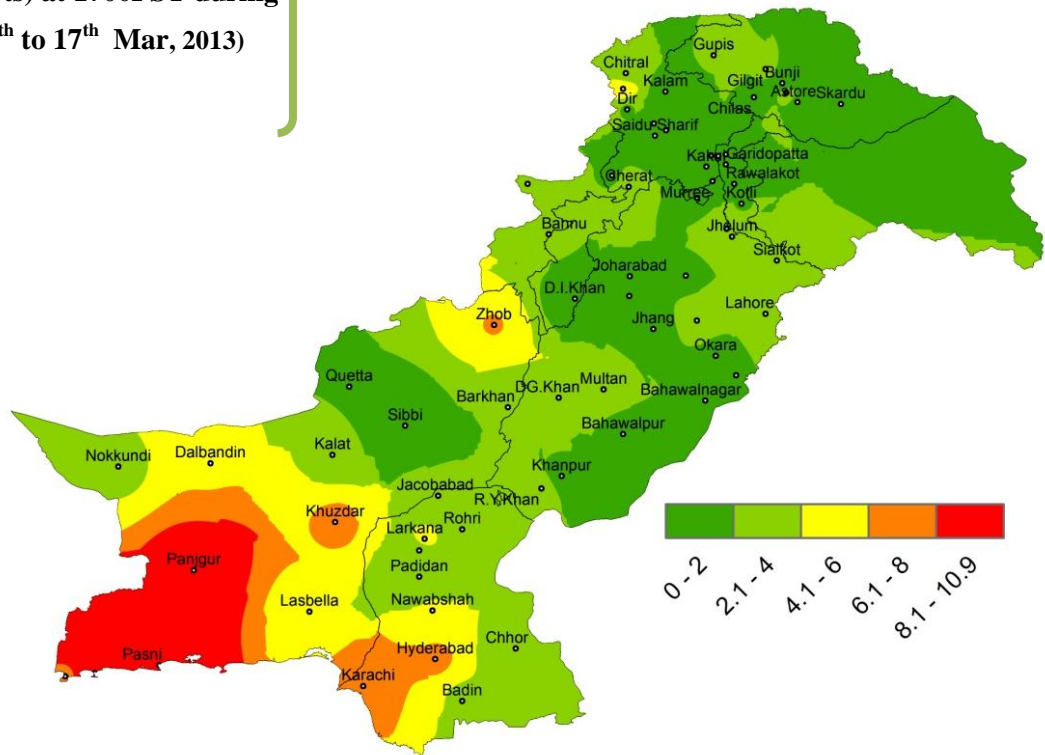
Mean Cloudiness (Oktas) at 1700PST during the last week (from 11th to 17th Mar, 2013)



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



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



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

A fresh western disturbance is likely to approach Western parts of Balochistan during week and likely to grip Upper & Central parts of the country on Wednesday night and may persist over Upper & Central parts of the country on Wednesday and Thursday.

Punjab including Islamabad:

Mostly partly cloudy weather conditions are expected in most parts of the province on Monday and Tuesday. Rain-thunderstorm is expected at scattered places of upper Punjab (Islamabad/Rawalpindi, Gujranwala, Lahore, Sargodha, Faisalabad divisions) on Friday and Saturday, while at isolated places in other parts of the province. Light rain-thunderstorm may occur at isolated places in Rawalpindi/Islamabad on Sunday as well.

Khyber Pakhtunkhwa:

Mostly partly cloudy weather conditions are expected in most parts of the province on Monday and Tuesday. Rain-thunderstorm is expected at isolated places in Malakand division on Monday. Scattered rain-thunderstorm is expected in KP on Friday (night) and Saturday. Isolated rain-thunderstorm may occur in Hazara division on Thursday. Light rain-thunderstorm may occur at isolated places in Malakand and Hazara divisions on Sunday as well.

Balochistan:

Rain-thunderstorm is expected at scattered places in Northeast Balochistan (Quetta, Zhob, Kalat and Sibbi divisions), while at isolated places in Makran division on Monday (night) and Tuesday. Isolated rain-thunderstorm is also expected in Northeast Balochistan (Quetta, Zhob, Kalat and Sibbi divisions) on Thursday. Dry weather is expected in most parts of the province from Friday to Sunday.

Sindh:

Mainly dry weather is expected in most parts of the province. However light rain-thunderstorm is expected in Upper Sindh (Sukkar and Larkana divisions) on Tuesday (night)/Wednesday.

Kashmir:

Mostly partly cloudy weather conditions are expected in most parts of Kashmir on Monday/Tuesday. However rain-thunderstorm is expected at scattered places in Kashmir from Tuesday (night) to Thursday. Rain-thunderstorm may occur at isolated places in Kashmir on Sunday.

Gilgit-Baltistan:

Mostly partly cloudy weather conditions are expected in most parts of GB on Monday/Tuesday. However rain-thunderstorm is expected at scattered places in G-B from Tuesday (night) to Thursday. Light rain-thunderstorm may occur at isolated places in Kashmir on Sunday.

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. Farmers should also free the crops from excess of weeds after recent rains especially in upper half of the country.

National Weather Data of Selected Cities

(Weekly data from 11th to 17th 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	-1.3	-2.4	***	56	18.7	4.7	5.9	3.4	5.1
Badin	17.9	15.5	153.5	53	0.0	0.9	0.9	1.4	1.7
Bahawalnagar	15.2	14.0	114.0	62	0.0	2.4	2.6	0.3	3.1
Bahawalpur	14.1	12.8	108.2	64	4.1	2.0	1.6	0.3	0.3
Balakot	8.8	6.9	66.5	63	47.2	5.4	6.3	0.9	8.6
Bannu	12.2	10.6	91.8	65	15.1	4.7	4.8	0.9	1.0
Barkhan	9.6	7.5	80.3	44	16.0	1.6	2.7	0.0	1.7
Bunji	9.1	6.7	62.5	52	2.0	6.0	7.4	1.7	2.9
Cherat	7.7	5.0	46.8	69	66.1	5.0	4.9	3.1	2.3
Chhor	15.9	15.2	147.4	49	0.0	0.3	1.0	0.6	1.4
Chilas	9.1	7.5	66.7	44	1.1	6.3	6.6	1.4	4.3
Chitral	4.9	3.9	35.0	79	37.0	6.7	7.4	0.0	4.3
D G Khan	15.6	13.8	111.7	67	0.1	3.3	3.1	0.0	2.0
D.I. Khan	12.8	10.5	107.4	45	17.1	3.0	4.6	1.7	6.3
Dalbandin	10.7	6.5	106.0	59	12.0	2.7	1.9	1.4	12.3
Dir	1.8	0.0	22.5	77	106.0	6.7	6.3	0.0	1.1
Drosh	2.3	1.2	26.5	66	41.0	7.1	7.1	0.0	2.9
Faisalabad	12.8	12.0	99.6	60	1.0	2.6	2.6	1.7	4.9
Garidopatta	8.0	6.0	72.0	68	42.0	4.9	4.3	0.0	1.1
Gawader	17.0	17.0	111.5	63	4.0	1.6	1.4	2.6	12.9
Gilgit	6.7	3.5	55.7	55	1.2	6.3	6.9	0.0	2.9
Gupis	2.3	1.0	22.3	52	15.0	7.1	6.0	1.7	3.1

Hyderabad	17.4	16.0	142.3	41	0.0	0.6	1.3	4.0	6.0
Islamabad	11.6	8.0	83.7	68	26.0	4.9	4.3	3.1	0.3
Jacobabad	16.0	14.5	133.8	54	1.0	1.6	1.4	2.3	1.7
Jhang	11.6	10.4	97.6	65	1.0	3.1	2.7	0.3	1.4
Jhelum	13.8	11.1	102.7	67	6.1	3.3	4.9	0.0	1.4
Jiwani	20.5	19.5		70	0.0	0.7	2.0	0.6	9.4
Joharabad	12.4	11.0	94.5	75	8.2	2.9	2.9	0.0	1.7
Kakul	6.0	4.0	52.7	67	65.0	5.0	6.3	0.0	1.4
Kalam	-0.5	-2.0	-3.0	83	55.0	5.9	6.9	0.0	0.6
KLT	2.9	1.0	39.5	43	6.0	1.1	3.6	0.3	2.0
Karachi	19.3	16.6	149.2	54	0.1	2.1	1.9	1.1	8.0
Khanpur	14.1	13.0	110.5	59	0.0	2.3	0.4	0.6	1.4
Khuzdar	9.9	8.0	86.8	39	42.0	1.1	3.1	0.6	4.0
Kotli	13.0	10.9	95.6	62	21.0	5.1	3.6	2.1	0.6
Lahore	14.7	13.5	106.3	62	7.0	3.6	2.3	0.6	2.6
Larkana	15.7	13.8	129.3	55	1.1	1.1	1.4	1.1	1.7
Lasbella	15.0	13.0	139.5	49	1.0	2.3	1.3	2.0	5.7
Lower Dir	7.5	5.0	61.8	66	38.0	6.0	6.6	2.3	1.9
M.B.din	14.1	11.5	102.1	68	2.0	2.9	3.9	0.3	1.1
Malam Jabba	3.1	1.5	3.9	77	71.0	4.6	5.6	0.0	0.0
Mangla	12.3	10.0	92.2	69	28.0	4.1	5.3	1.1	2.9
Mir Khani	5.8	4.3	***	71	35.0	6.0	6.2	0.7	1.2
Moen-Jo-Daro	13.4	12.5	119.5	54	0.1	1.6	1.7	1.1	3.1
Multan	13.7	11.3	103.4	61	0.2	3.0	3.0	1.4	3.7

Murree	5.5	3.0	25.0	66	36.1	5.1	5.0	4.0	4.9
Muzaffarabad	10.7	9.0	80.9	71	61.0	5.7	5.4	0.0	0.0
Nawabshah	16.1	13.5	***	49	0.0	0.6	1.7	2.1	3.1
Nokkundi	13.4	8.6	***	25	2.0	1.8	3.3	1.6	3.1
Noorpur Thal	12.0	11.0	97.8	64	19.0	2.1	1.7	0.0	1.7
Okara	14.2	13.5	106.1	62	3.0	3.0	1.6	0.9	1.4
Padidan	15.9	14.0	143.0	59	0.0	1.4	2.0	2.0	2.0
Panjgur	11.9	10.0	***	38	3.0	2.6	2.7	5.1	11.6
Parachinar	-0.3	-1.2	***	74	42.0	5.1	5.6	3.0	3.0
Pasni	17.6	16.0	135.3	72	0.0	0.3	1.3	0.6	8.6
Pattan	8.7	6.0	***	69	39.0	5.0	5.7	0.3	0.9
Peshawar	12.3	9.5	88.4	75	60.0	6.1	6.4	0.6	1.4
Quetta	1.9	-0.5	65.3	43	3.1	1.4	6.3	0.0	2.6
R.Y.Khan	14.8	13.6	117.0	60	0.5	2.3	0.9	1.1	2.0
Rawalakot	3.7	1.5	35.3	72	46.2	4.6	5.4	0.0	5.4
Rohri	18.1	17.0	135.5	74	2.0	2.0	1.0	3.4	3.1
Sahiwal	12.6	12.0	***	66	2.0	2.1	1.4	0.3	0.9
Saidu Sharif	9.9	8.8	67.9	68	45.0	4.7	4.7	0.0	0.0
Sialkot	13.0	10.5	93.2	69	19.0	3.9	2.9	1.1	0.6
Sibbi	13.1	11.0	113.3	48	0.0	0.0	2.4	0.0	0.0
Skardu	3.2	1.0	31.3	47	0.0	6.0	5.9	0.0	4.3
Zhob	9.6	8.0	72.3	48	4.0	0.7	3.9	4.9	7.3

*** Data not available