

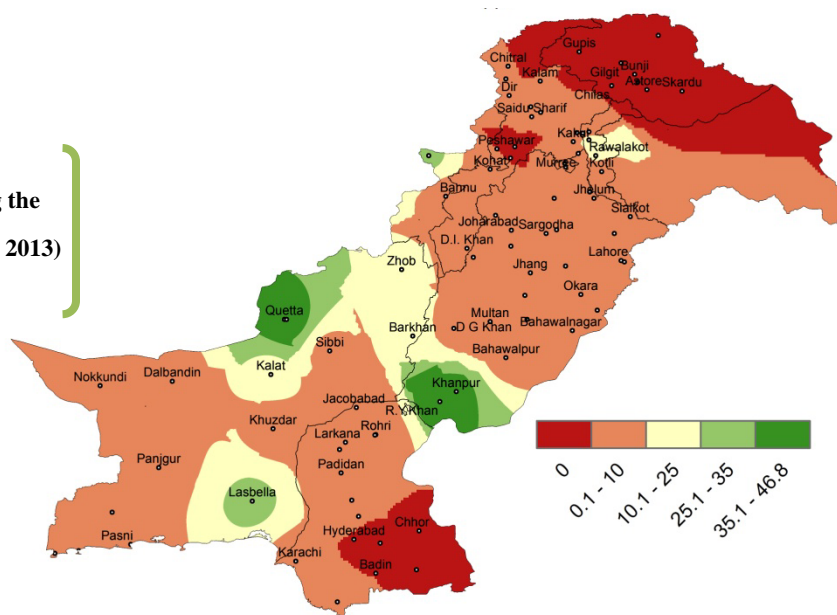
Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall distribution (mm) during the
Last week (from 25th to 31st Mar, 2013)**



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Highlights of Past Weather (25th to 31st March, 2013)

Light to moderate rainfall occurred in most of the agricultural plains of the country during the week except Sindh province where light rainfall occurred at few places.

Patron-in-Chief: Arif Mahmood (Director General)
Chief Editor: Dr. Khalid Mehmood Malik (Director)
Editor: Dildar Hussain Kazmi (Meteorologist)

Punjab

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 28.8 °C & 15.0°C respectively. For the present season on average 117.9 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 1.1/2.0 Knots. During the previous week highest amount of rainfall reported at Khanpur as 38.0 mm and extreme minimum temperature recorded at Murree as 15.0 °C.

Sindh

Light rainfall reported from few places during the week. Weekly maximum temperature and minimum temperature recorded as 32.9°C & 17.0°C respectively. For the present season on average 147.4 growing degree days accumulated by the end of last week. Average relative humidity recorded as 55 % and wind speed in the morning/evening recorded as 2.3/4.8 Knots. During the previous week highest amount of rainfall reported at Karachi as 3.0 mm and extreme minimum temperature recorded as 15.0 °C at Dadu.

Khyber Pakhtoon Khawa

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 22.8°C & 4.8°C respectively. For the present season on average 74.2 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 0.0/6.0 Knots. During the previous week the highest rainfall recorded at Parachinar as 93.0

mm and extreme minimum temperature recorded as -1.5°C at Parachinar.

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 26.4°C & 11.5°C respectively. For the present season on average 98.9 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 1.9/5.7 Knots. During the previous week highest amount of rainfall reported at Samungli (Quetta) as 49.1 mm and extreme minimum temperature recorded as 4.5°C at Kalat.

Gilgit Baltistan and Azad Jammu & Kashmir

Light to moderate precipitation reported from some of the agricultural plains of the region during the week. Weekly maximum temperature and minimum temperature recorded as 23.1°C & 8.2°C respectively. For the present season on average 78.8 growing degree days accumulated by the end of last week. Average relative humidity recorded as 38 % and wind speed in the morning/evening recorded as 1.3/2.6 Knots. During the previous week the highest rainfall recorded at Garhi Dopatta as 36.0 mm and extreme minimum temperature recorded as -1.5°C at Astore.

Past Weather for Major Agricultural Plains

(from 25th to 31st March, 2013)

Rawalpindi (Potohar region)

No rainfall reported during the week however cloudiness in the morning/evening as 1.7/1.4 Oktas while average relative humidity observed as 60 %. Mean night temperature recorded as 13.0°C & for the present season 97.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.5/1.8 Km/h.

Faisalabad (Central Punjab)

Rainfall reported as Trace during during the week however cloudiness in the morning/evening as 3.4/3.3 Oktas while average relative humidity observed as 52%. Mean night temperature recorded as 15.1 °C & for the present season 121.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.7/2.0 Km/h.

Tandojam (Lower Sindh)

No rainfall reported during the week, however cloudiness in the morning/evening as 1.8/0.8 Oktas while average relative humidity observed as 51%. Mean night temperature recorded as 10.0°C & for the present season 146.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 4.3/3.7 Km/h.

Quetta (Northern Balochistan)

Rainfall reported as 34.1 mm during the week however cloudiness in the morning/evening as 3.8/5.1 Oktas while average relative humidity observed as 58%. Mean night temperature observed as 5.0°C & for the present season 44.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.7/4.7 Km/h.

Usta Muhammad (Eastern Balochistan)

No rainfall reported during the week, however cloudiness in the morning/evening as 2.9/1.4 Oktas while average relative humidity observed as 62%.

Mean night temperature recorded as 18.1°C & for the present season 131.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.7/4.2 Km/h.

Past Weather for sub regional Agri-cultural Plains (from 25th to 31st March, 2013)

Rohri

Rainfall reported as 0.1 mm during the week however cloudiness in the morning/evening as 2.4/1.8 Oktas while average relative humidity observed as 50 %. Mean night temperature recorded as 18.4°C & for the present season 140.3 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 2.9/2.3 Knots.

Multan

Rainfall reported as 5.0 mm during the week however cloudiness in the morning/evening as 3.4/2.5 Oktas while average relative humidity observed as 58%. Mean night temperature recorded as 17.0°C & for the present season 127.6 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 2.9/4.0 Knots.

Lahore

Rainfall reported as 2.1 mm during the week however cloudiness in the morning/evening as 4.0/3.9 Oktas while average relative humidity observed as 55%. Mean night temperature recorded as 14.5°C & for the present season 118.8 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 1.7/4.0 Knots.

Zhob

Rainfall reported as 14.0 during the week however cloudiness in the morning/evening as 5.0/6.3 Oktas while average relative humidity observed as 56%. Mean night temperature recorded as 8.6°C & for the present season 72.0 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 5.0/6.3 Knots.

D.I. Khan

Rainfall reported as 7.0 mm during the week however cloudiness in the morning/evening as 1.1/1.7 Oktas while average relative humidity observed as 65%. Mean night temperature recorded as 14.8°C & for the present season 116.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.3/0.3 Knots.

Peshawar

No rainfall reported during the week however cloudiness in the morning/evening as 2.9/2.8 Oktas while average relative humidity observed as 67%. Mean night temperature recorded as 13.9°C & for the present season 114.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/1.0 Knots.

Murree

No rainfall reported during the week however cloudiness in the morning/evening as 2.3/2.6 Oktas while average relative humidity observed as 57%. Mean night temperature recorded as 6.3°C & for the present season 69.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.0/3.1 Knots.

Kalam

No rainfall reported during the week however cloudiness in the morning/evening as 0.9/3.4 Oktas while average relative humidity observed as 54%. Mean night temperature recorded as 1.3°C & for the present season 35.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.9 Knots

Gilgit.

No rainfall reported during the week, however cloudiness in the morning/evening as 4.7/4.6 Oktas while average relative humidity observed as 36%. Mean night temperature recorded as 8.6°C & for the present season 87.0 growing degree days

accumulated by the end of last week. Wind speed recorded in the morning/evening 1.7/2.9 Knots.

Skardu

No rainfall reported during the week however cloudiness in the morning/evening as 4.0/4.3 Oktas while average relative humidity observed as 31%. Mean night temperature recorded as 6.1°C and wind speed recorded in the morning/evening as 0.0/3.3 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 *Milk* Maturity .

Lower Sindh (Tandojam)

Presently there is no crop in the fields.

Northern Balochistan (Quetta)

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

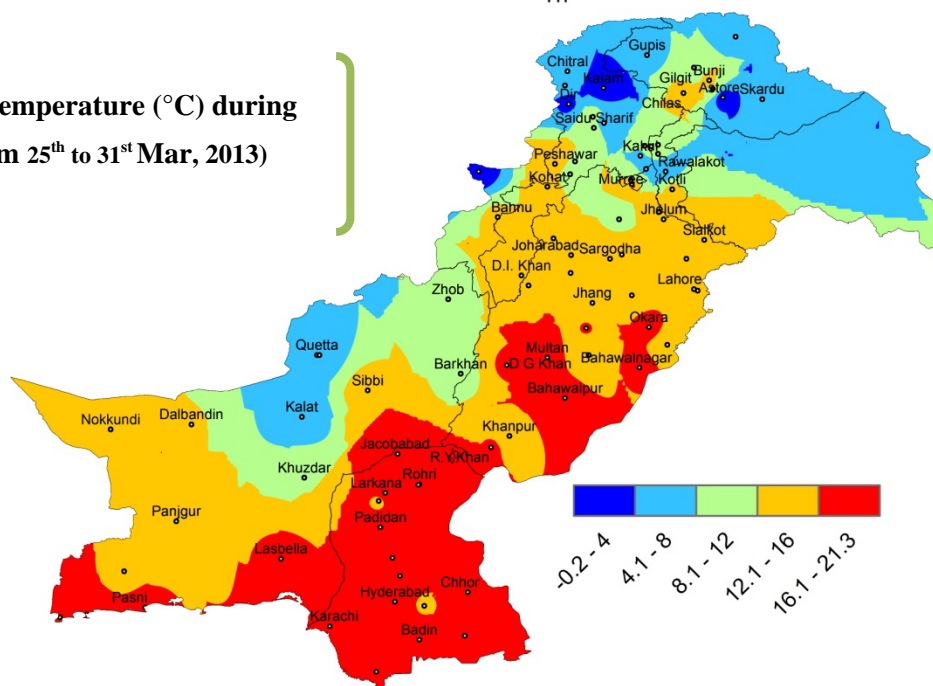
Wheat: Good condition at *Shooting* stage.

Eastern Balochistan (Usta Muhammad)

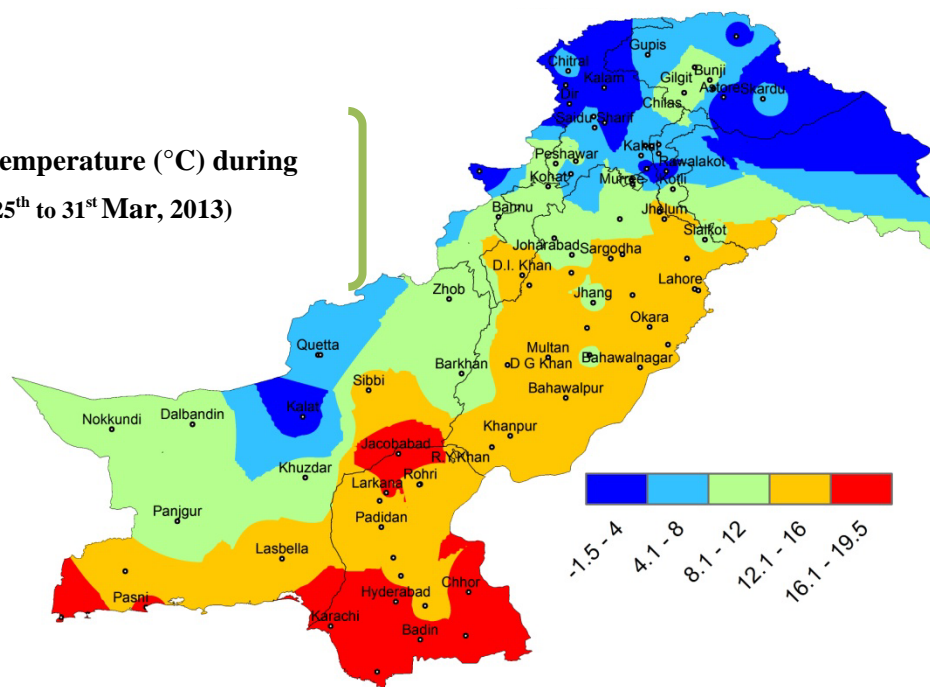
There is presently one crop (irrigated conditions) grown in the fields as detailed below.

Wheat: Good condition, *flowering started*.

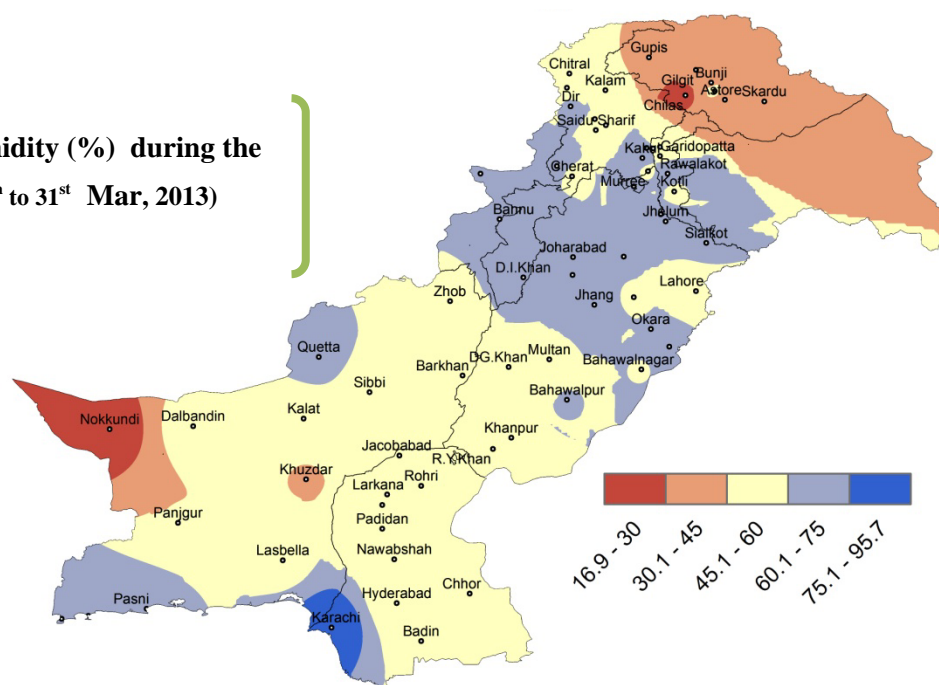
Mean minimum temperature (°C) during
the last week (from 25th to 31st Mar, 2013)



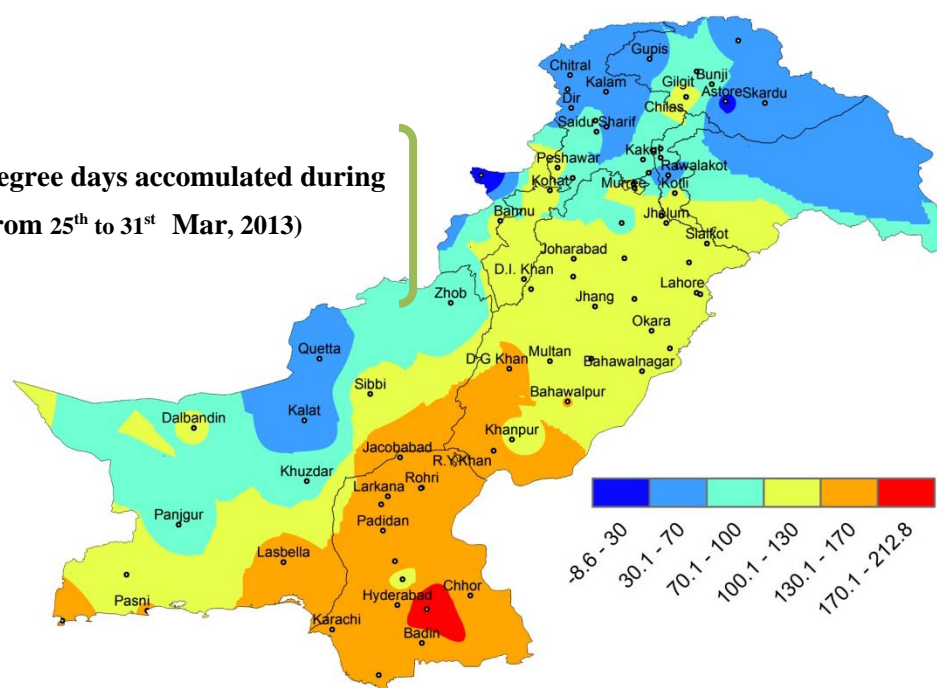
Extreme minimum temperature (°C) during
the last week (from 25th to 31st Mar, 2013)



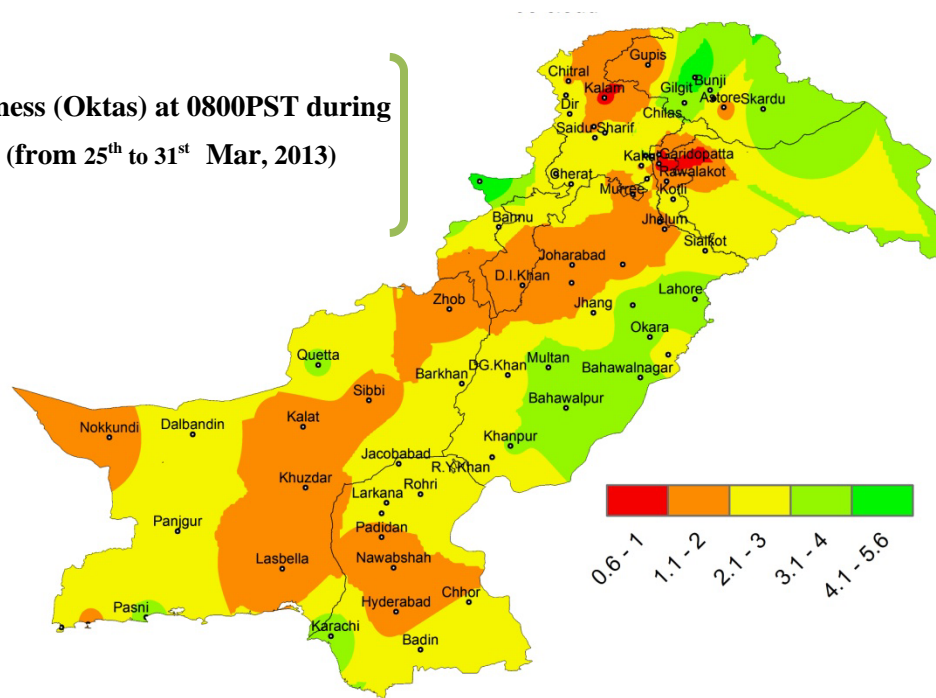
Mean relative humidity (%) during the last week (from 25th to 31st Mar, 2013)



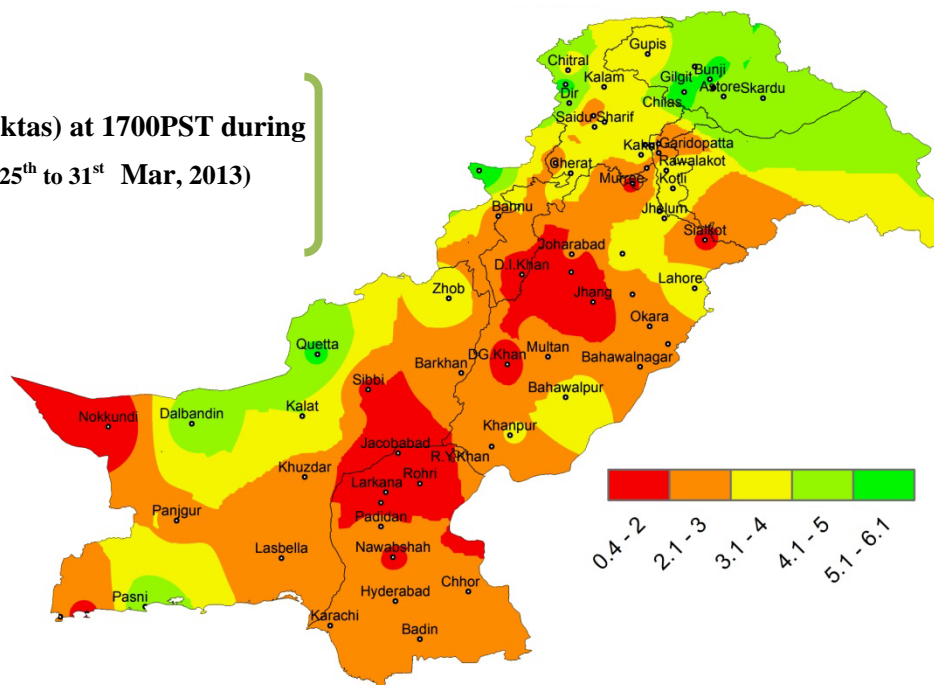
Total growing degree days accumulated during the last week (from 25th to 31st Mar, 2013)



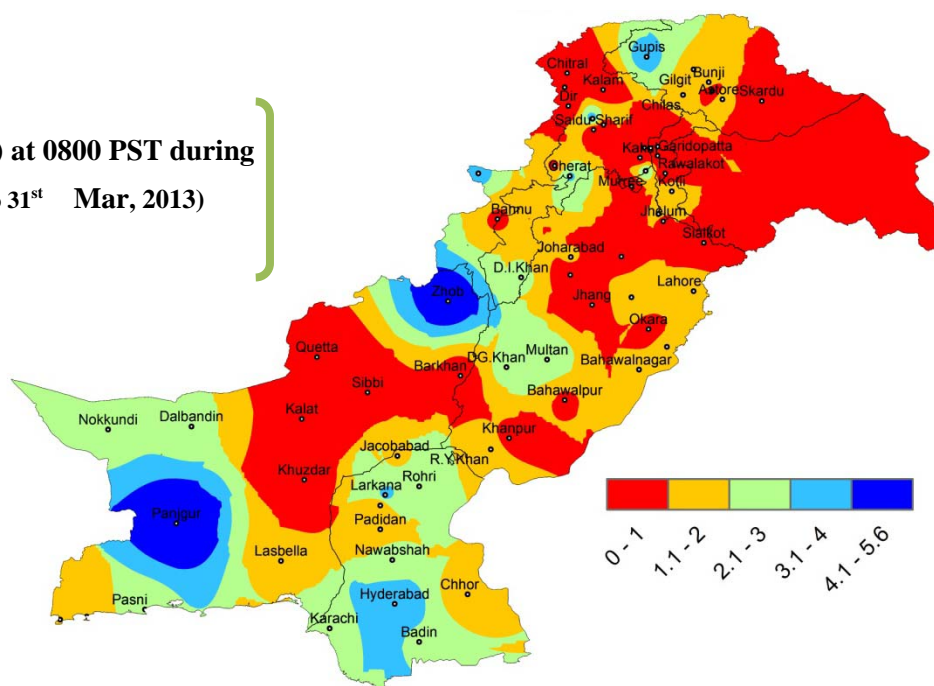
Mean Cloudiness (Oktas) at 0800PST during
the last week (from 25th to 31st Mar, 2013)



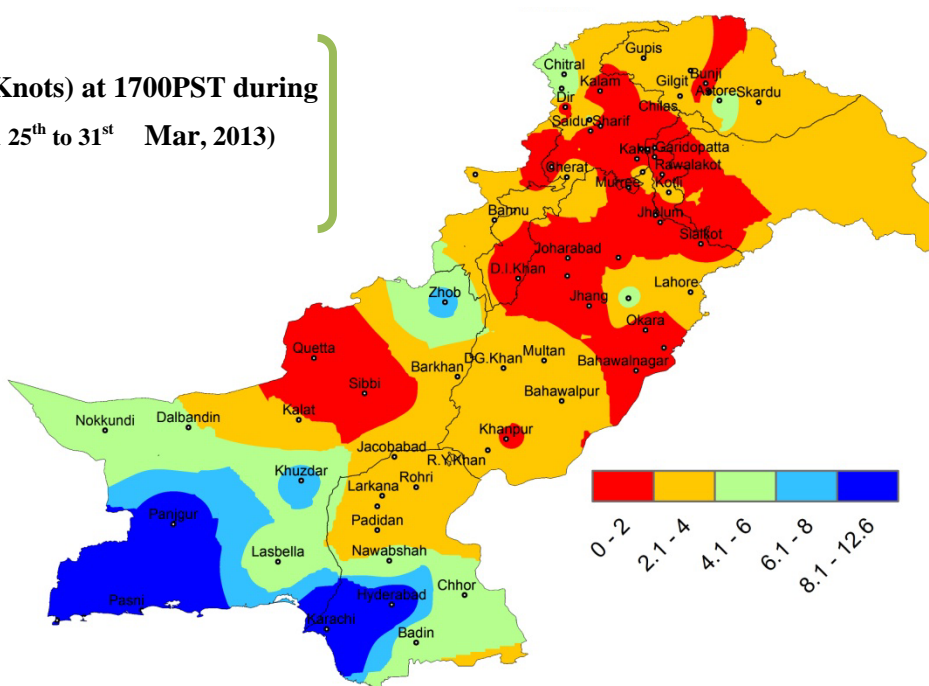
Mean Cloudiness (Oktas) at 1700PST during
the last week (from 25th to 31st Mar, 2013)



Mean wind speed (Knots) at 0800 PST during
the last week (from 25th to 31st Mar, 2013)



Mean wind speed (Knots) at 1700PST during
the last week (from 25th to 31st Mar, 2013)



Weekly Weather advisory for Farmers

(from 1st to 7th April, 2013)

An extension of shallow westerly wave is expected to approach over northern parts of country on Monday (morning). However, another deep westerly wave is expected to approach on Saturday/Sunday will effect over western, Upper & Central parts of the country.

Punjab including Islamabad:

Thunderstorm/ rain with shower is expected over upper and central parts of the province during Monday and Tuesday. However, rain-thunderstorm associated with gusty winds is expected at isolated places in the province on Sunday & Monday.

Khyber Pakhtunkhwa:

Rain/Thunderstorm at isolated palces is expected during Monday to Wednesday and Sunday/Monday. Rest of the week dry/Partly cloudy weather is expected over the province.

Balochistan:

Rain-thunderstorm associated with gusty winds is expected at scattered places in Balochistan on Sunday (evening/night) & Monday. However dry weather is expected during rest of the week.

Sindh:

Mainly dry weather is expected in most parts of the province during the week. However, rain-Thunderstorm may occur at isolated places in upper & western parts of Sindh during Sunday/ Monday.

Kashmir:

Partly cloudy weather conditions are expected in most parts of Kashmir during first half of the week. However rain-thunderstorm is expected at isolated places in Kashmir from Monday to Wednesday and Monday.

Gilgit-Baltistan:

Rain/Thunderstorm is expected during Monday to Wednesday and Sunday/Monday.

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. 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 25th to 31st March, 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	-0.3	-1.5	18.3	32.9	0.0	1.6	4.7	1.4	5.4
Badin	19.5	19.0	152.3	50.7	0.0	2.7	2.2	2.9	4.0
Bahawalnagar	16.6	14.8	122.5	59.6	6.0	4.0	2.9	1.1	1.7
Bahawalpur	17.1	15.0	130.2	60.2	4.1	3.6	3.3	0.9	2.0
Balakot	8.2	6.0	***	62.3	1.0	3.1	3.8	0.0	0.7
Bannu	13.4	12.0	107.5	63.2	1.0	2.0	2.7	0.9	2.6
Barkhan	9.7	8.5	126.0	50.3	23.0	2.3	2.7	0.3	2.7
Bunji	13.2	11.1	98.4	43.8	0.0	3.9	6.1	1.4	0.9
Cherat	10.4	5.0	69.5	56.5	0.0	2.3	3.3	3.1	3.1
Chhor	18.7	17.2	152.7	51.9	0.0	2.0	2.0	1.1	4.0
Chilas	13.5	10.8	108.0	24.6	0.0	3.4	5.1	1.4	2.6
Chitral	6.0	5.4	69.1	58.8	0.0	1.9	3.6	0.0	4.0
DG.Khan	16.7	13.2	131.6	57.1	0.1	2.6	1.7	2.3	3.4
D.I.Khan	14.8	12.0	116.5	64.8	7.0	1.1	1.7	2.3	0.3
Dalbandin	12.1	10.0	101.8	55.3	3.1	2.7	4.5	2.3	4.0
Dir	3.2	1.5	55.5	64.1	3.0	2.6	4.4	0.0	1.4
Drosh	4.5	1.7	59.9	46.1	0.0	3.0	5.6	0.0	6.0
Faisalabad	15.2	13.0	118.9	58.9	0.0	3.7	2.7	2.0	4.6
Garidopatta	8.5	7.0	79.5	59.0	24.0	0.6	2.7	0.0	0.3
Gawader	19.1	17.0	***	62.9	0.4	1.7	1.9	1.4	12.6
Gilgit	8.6	8.0	87.0	35.9	0.0	4.7	4.6	1.7	2.9
Gupis	6.1	4.5	55.5	36.8	0.0	1.1	3.3	3.4	2.6
Hyderabad	19.7	19.0	151.3	45.9	0.0	1.3	2.6	4.0	10.9
Islamabad	11.9	8.5	100.9	62.9	0.1	1.9	1.8	0.0	1.3
Jacobabad	18.7	17.0	139.0	50.9	0.0	2.7	1.3	1.7	3.7
Jhang	14.0	11.5	118.0	64.2	0.2	2.3	1.1	0.3	0.6
Jhelum	14.5	12.8	120.4	63.1	0.0	2.0	3.0	0.9	2.0
Jiwani	20.9	19.5	140.1	63.5	0.0	2.9	2.0	2.0	8.0
Joharabad	14.6	11.0	117.8	68.5	0.1	1.4	2.3	1.1	1.4
Kakul	7.3	4.5	70.1	65.4	6.4	1.9	3.4	0.0	0.9
Kalam	1.3	-1.0	35.3	53.9	0.0	0.9	3.4	0.0	0.9
Kalat	4.4	2.5	37.3	55.7	18.0	1.1	4.0	0.6	2.0

Karachi	21.3	19.5	152.5	95.7	3.0	3.4	2.7	2.6	9.7
Khanpur	15.4	14.0	128.6	59.9	38.0	3.1	3.1	0.6	1.7
Khuzdar	11.6	9.0	94.5	43.7	2.0	1.6	2.7	0.0	6.6
Kotli	13.4	10.7	106.8	56.5	2.0	2.7	3.0	1.6	2.4
Lahore	14.5	12.2	118.8	54.6	2.1	4.0	3.9	1.7	4.0
Larkana	18.2	16.5	140.6	54.0	1.0	2.3	0.7	3.4	2.7
Lasbella	17.0	14.0	139.0	51.9	31.0	1.2	2.3	1.3	5.1
Lower Dir	10.3	4.5	94.3	59.8	2.0	1.4	1.9	3.7	4.6
Malam Jabba	4.1	0.0	24.5	53.9	0.0	2.6	4.0	0.6	0.6
M.B Din	15.8	14.5	125.4	61.0	0.1	1.4	3.4	0.6	1.7
Mangla	13.4	12.2	112.2	63.7	0.1	1.7	3.4	1.1	0.6
Mir Khani	12.4	7.0	***	48.4	0.0	2.6	3.7	0.4	2.0
Moinjodaro	15.4	14.5	131.1	50.4	1.0	2.0	1.4	1.1	3.4
Multan	17.0	13.5	127.6	58.1	5.0	3.4	2.5	2.9	4.0
Murree	6.3	2.0	69.7	57.4	0.0	2.3	2.6	3.0	3.1
Muzaffarabad	10.6	8.4	95.6	61.5	0.2	3.3	4.0	0.0	0.6
Nokkundi	14.7	11.1	***	16.9	0.2	1.7	1.2	2.6	4.7
Noorpurthal	15.0	12.5	126.1	61.6	2.0	1.3	0.4	0.3	0.6
Okara	16.7	14.0	125.7	60.1	0.2	3.3	2.3	0.6	0.9
Padidan	16.6	14.5	137.5	52.6	0.0	1.9	2.9	1.7	2.9
Panjgur	12.3	10.0	90.8	45.5	2.0	2.1	2.9	5.6	9.4
Parachinar	0.1	-1.5	-8.8	70.7	31.0	5.6	6.0	3.3	3.0
Pasni	17.4	16.5	131.5	70.8	2.0	3.1	4.7	2.6	11.7
Pattan	10.0	6.0	92.3	47.5	0.0	0.6	2.2	0.3	0.0
Peshawar	13.9	9.0	114.0	67.2	0.0	2.9	2.8	0.9	1.0
Quetta	5.6	4.5	52.5	64.0	31.0	3.1	5.1	0.0	0.9
R.Y.Khan	16.2	14.8	133.5	59.4	43.0	2.1	2.1	1.7	3.3
Rawalakot	4.3	1.0	***	70.0	12.3	1.4	3.9	0.0	1.4
Rohri	18.4	16.0	140.3	49.4	0.1	2.4	1.8	2.9	2.3
Sahiwal	14.7	12.5	117.4	64.0	1.1	2.1	2.4	1.4	1.4
Saidu Sharif	10.6	7.5	88.0	57.4	0.0	2.4	3.4	0.0	0.9
Sialkot	14.0	11.5	111.7	62.2	0.1	2.4	1.8	0.0	1.3
Sibbi	15.5	14.0	119.0	54.4	0.1	1.7	1.9	0.0	0.0
Skardu	6.1	4.5	56.4	30.5	0.0	4.0	4.3	0.0	3.3
Zhob	8.6	8.0	72.0	56.3	14.0	1.7	3.3	5.0	6.3

*** Data not available