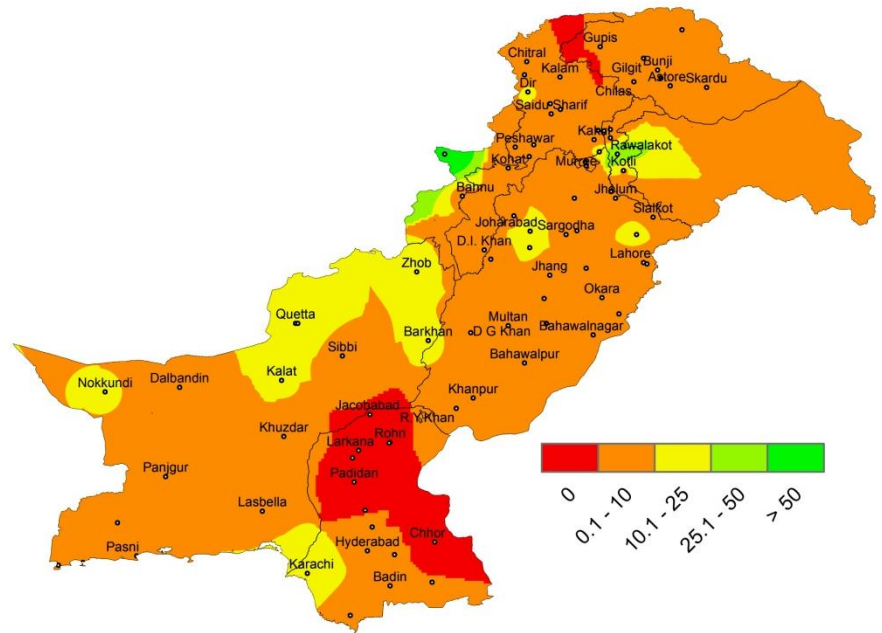


Weekly Weather and Crop Bulletin for Pakistan

**NATIONAL AGROMET
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**Rainfall distribution (mm) during the
Last week (from 8th to 14th April, 2013)**



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Highlights of Past Weather (8th to 14th April, 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 33.2 °C & 17.7°C respectively. For the present season on average 143.0 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 1.0/1.8 Knots. During the previous week highest amount of rainfall reported at Jujranwala as 16.0 mm and extreme minimum temperature recorded at Murree as 7.0 °C.

Sindh

Light to moderate rainfall reported from few places during the week. Weekly maximum temperature and minimum temperature recorded as 35.9°C & 21.1°C respectively. For the present season on average 163.8 growing degree days accumulated by the end of last week. Average relative humidity recorded as 51% and wind speed in the morning/evening recorded as 2.6/4.6 Knots. During the previous week highest amount of rainfall reported at Karachi as 23.0 mm and extreme minimum temperature recorded as 16.0°C at Moinjo-daro.

Khyber Pakhtunkhwa

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 25.9°C & 11.4°C respectively. For the present season on average 96.5 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 0.8/2.4 Knots. During the previous week the highest rainfall recorded at Parachinar 113.0 mm and extreme

minimum temperature recorded as 1.0°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 28.3°C & 9.8 °C respectively. For the present season on average 122.8 growing degree days accumulated by the end of last week. Average relative humidity recorded as 52% and wind speed in the morning/evening recorded as 1.2/4.9 Knots. During the previous week highest amount of rainfall reported at Ormara as 50.0 mm and extreme minimum temperature recorded as 2.5°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 26.0°C & 10.4°C respectively. For the present season on average 92.2 growing degree days accumulated by the end of last week. Average relative humidity recorded as 45 % and wind speed in the morning/evening recorded as 0.7/3.5 Knots. During the previous week the highest rainfall recorded at Rawalakot as 16.1 mm and extreme minimum temperature recorded as 0.5°C at Astore.

Past Weather for Major Agricultural Plains

(from 8th to 14th April, 2013)

Rawalpindi (Potohar region)

Rainfall reported as 4.0 mm during the week however cloudiness in the morning/evening as 2.6/2.2 Oktas while average relative humidity observed as 52 %. Mean night temperature recorded as 13.9 °C & for the present season 131.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.1/1.8 Km/h.

Faisalabad (Central Punjab)

Rainfall reported as 8.0 mm during the week however cloudiness in the morning/evening as 2.1/3.3 Oktas while average relative humidity observed as 40%. Mean night temperature recorded as 20.0 °C & for the present season 155.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.7/2.4 Km/h.

Tandojam (Lower Sindh)

Rainfall reported as 5.0 mm during the week, however cloudiness in the morning/evening as 0.6/1.7 Oktas while average relative humidity observed as 51%. Mean night temperature recorded as 20.6 °C & for the present season 162.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.6/2.3 Km/h.

Quetta (Northern Balochistan)

Rainfall reported as 13.2 mm during the week however cloudiness in the morning/evening as 2.3/3.3 Oktas while average relative humidity observed as 50%. Mean night temperature observed as 10.0°C & for the present season 72.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.6/5.9 Km/h.

Usta Muhammad (Eastern Balochistan)

No rainfall reported during the week,

however cloudiness in the morning/evening as 1.0/1.1 Oktas while average relative humidity observed as 45%. Mean night temperature recorded as 18.2°C & for the present season 150.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.7/3.5 Km/h.

Past Weather for sub regional Agri-cultural Plains (from 8th to 14th April, 2013)

Rohri

No rainfall reported during the week however cloudiness in the morning/evening as 0.3/2.1 Oktas while average relative humidity observed as 46 %. Mean night temperature recorded as 22.9°C & for the present season 169.4 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 3.1/4.3 Knots.

Multan

Rainfall reported as 2.1 mm during the week however cloudiness in the morning/evening as 2.9/3.3 Oktas while average relative humidity observed as 69%. Mean night temperature recorded as 15.3°C & for the present season 136.2 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 2.0/3.1 Knots.

Lahore

Rainfall reported as 1.0 mm during the week however cloudiness in the morning/evening as 2.9/2.1 Oktas while average relative humidity observed as 43%. Mean night temperature recorded as 19.7°C & for the present season 153.9 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 0.6/2.9 Knots.

Zhob

Rainfall reported as 13.0 mm during the week however cloudiness in the morning/evening as 2.4/3.3 Oktas while average relative humidity observed as 48%. Mean night temperature recorded as 10.5°C & for the present season 122.8 growing degree days accumulated by the end of

last week. Wind recorded in the morning/evening as 5.0/8.0 Knots.

D.I. Khan

Rainfall reported as 7.1 mm during the week however cloudiness in the morning/evening as 2.3/2.0 Oktas while average relative humidity observed as 55%. Mean night temperature recorded as 5.6°C & for the present season 100.6 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/1.7 Knots.

Peshawar

Rainfall reported as 5.1 mm during the week however cloudiness in the morning/evening as 3.3/3.1 Oktas while average relative humidity observed as 56%. Mean night temperature recorded as 13.1°C & for the present season 121.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/2.0 Knots.

Murree

Rainfall reported as 13.2 mm during the week however cloudiness in the morning/evening as 2.9/4.9 Oktas while average relative humidity observed as 54%. Mean night temperature recorded as 8.5°C & for the present season 62.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.3/2.3 Knots.

Kalam

No rainfall reported during the week however cloudiness in the morning/evening as 1.4/5.3 Oktas while average relative humidity observed as 57%. Mean night temperature recorded as 16.8°C & for the present season 94.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/2.0 Knots

Gilgit.

Rainfall reported as 0.4 mm during the week, however cloudiness in the morning/evening as

4.1/4.9 Oktas while average relative humidity observed as 39%. Mean night temperature recorded as 9.2°C & for the present season 93.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening 0.0/4.04 Knots.

Skardu

Rainfall reported as 0.1 mm during the week however cloudiness in the morning/evening as 4.0/4.9 Oktas while average relative humidity observed as 37%. Mean night temperature recorded as 6.1°C & for the present season 62.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/4.7 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 completed .

Wheat: Good condition at *Wax* Maturity stage .

Lower Sindh (Tandojam)

There is presently no crop in the fields.

Northern Balochistan (Quetta)

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

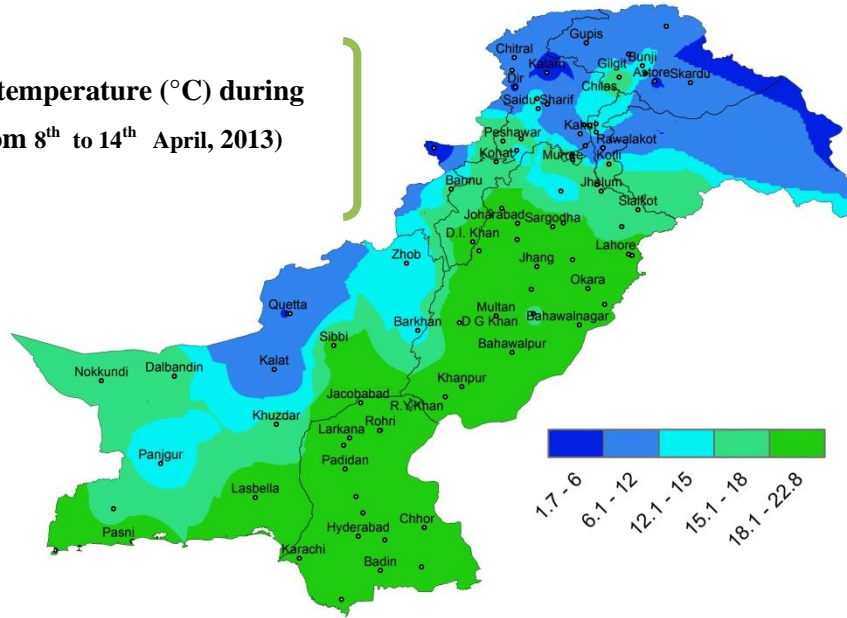
Wheat: Good condition at *Heading* stage.

Eastern Balochistan (Usta Muhammad)

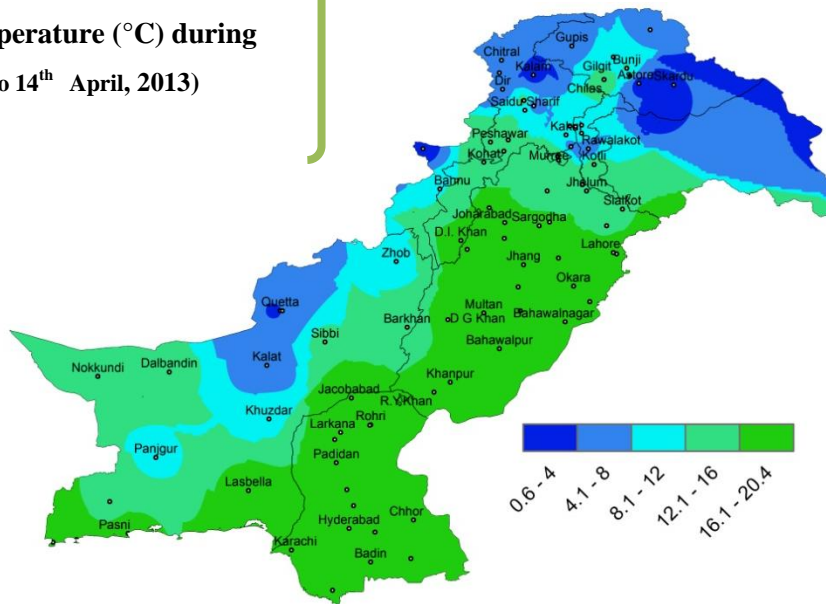
There is presently one crop (irrigated conditions) grown in the fields as detailed below.

Wheat: Good condition at *flowering* stage almost completed.

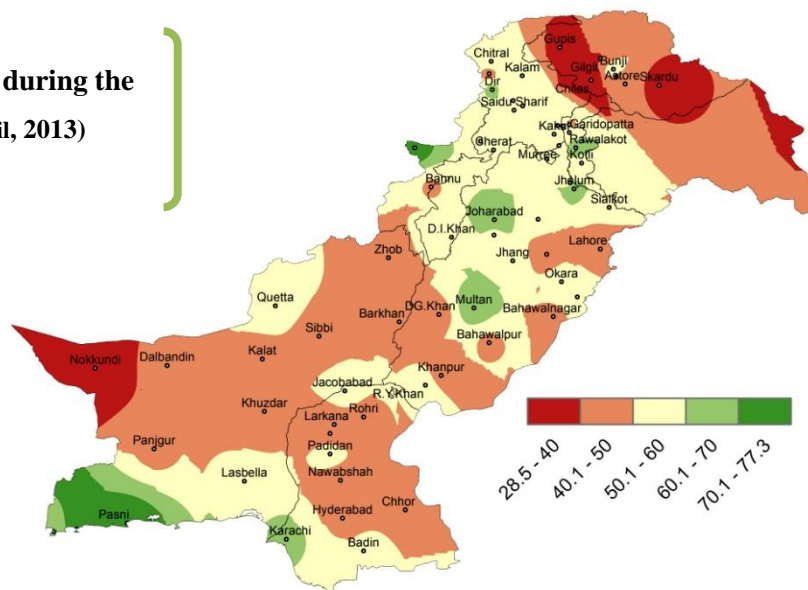
Mean minimum temperature (°C) during the last week (from 8th to 14th April, 2013)



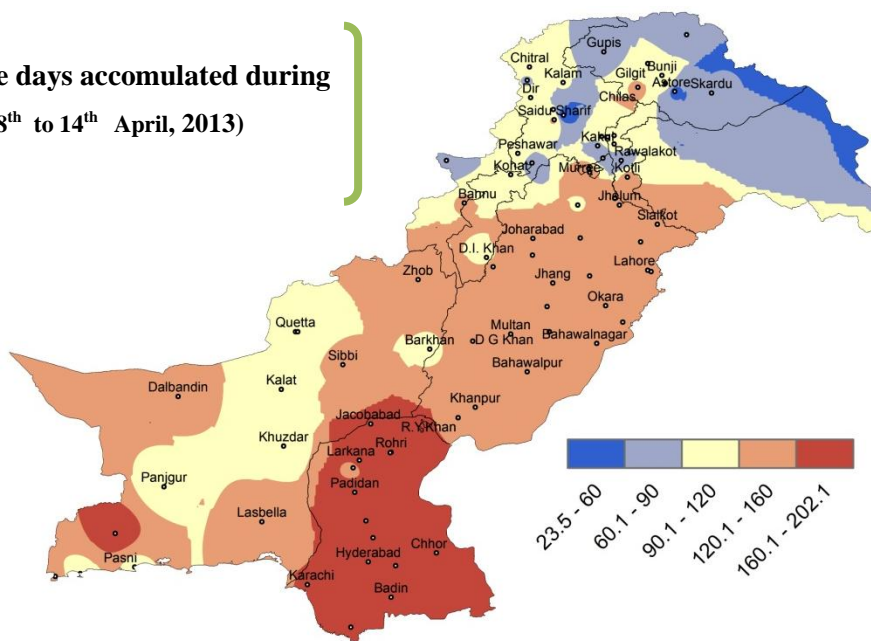
Extreme minimum temperature (°C) during the last week (from 8th to 14th April, 2013)



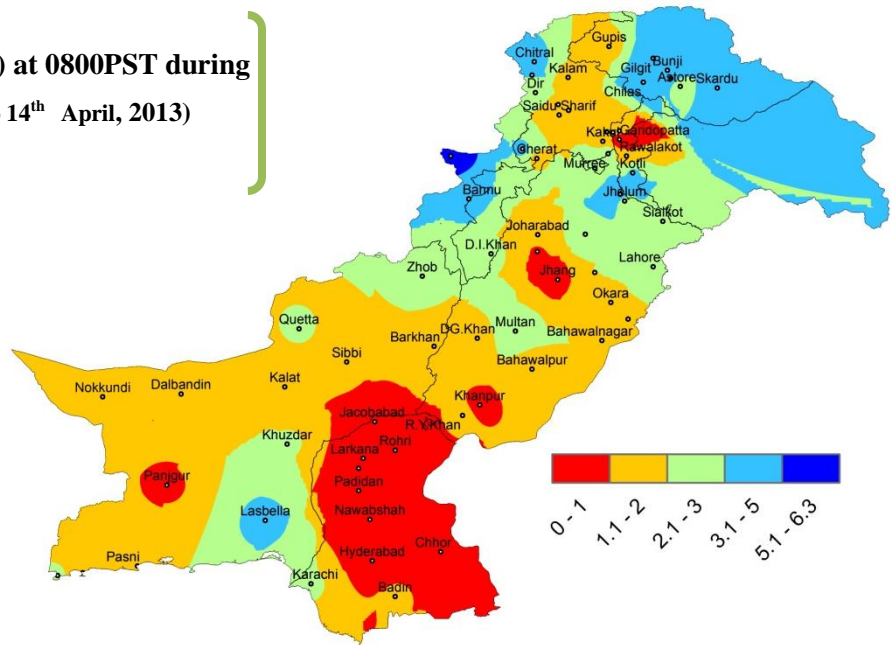
Mean relative humidity (%) during the last week (from 8th to 14th April, 2013)



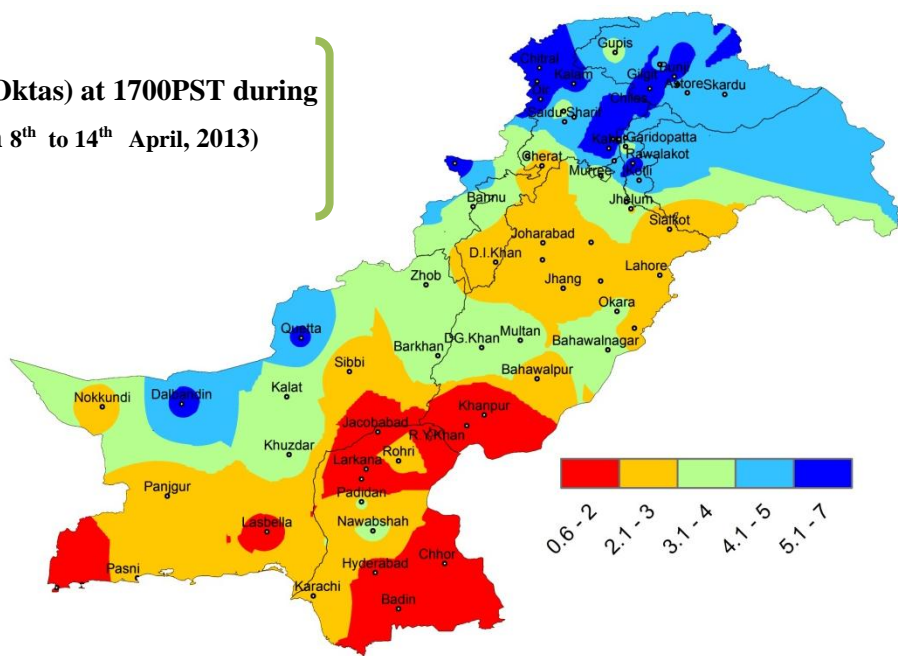
Total growing degree days accumulated during the last week (from 8th to 14th April, 2013)



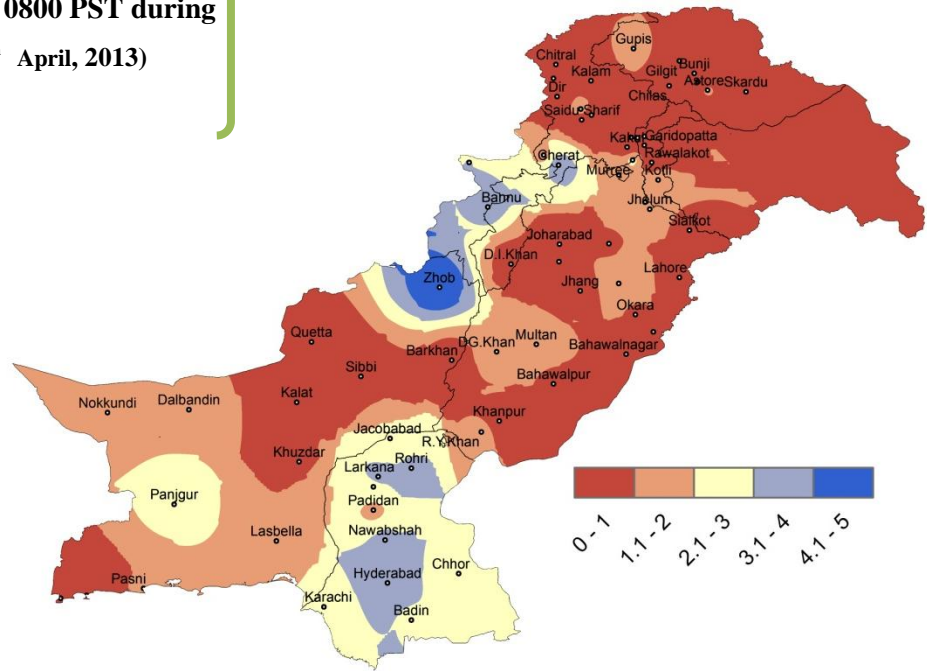
Mean Cloudiness (Oktas) at 0800PST during the last week (from 8th to 14th April, 2013)



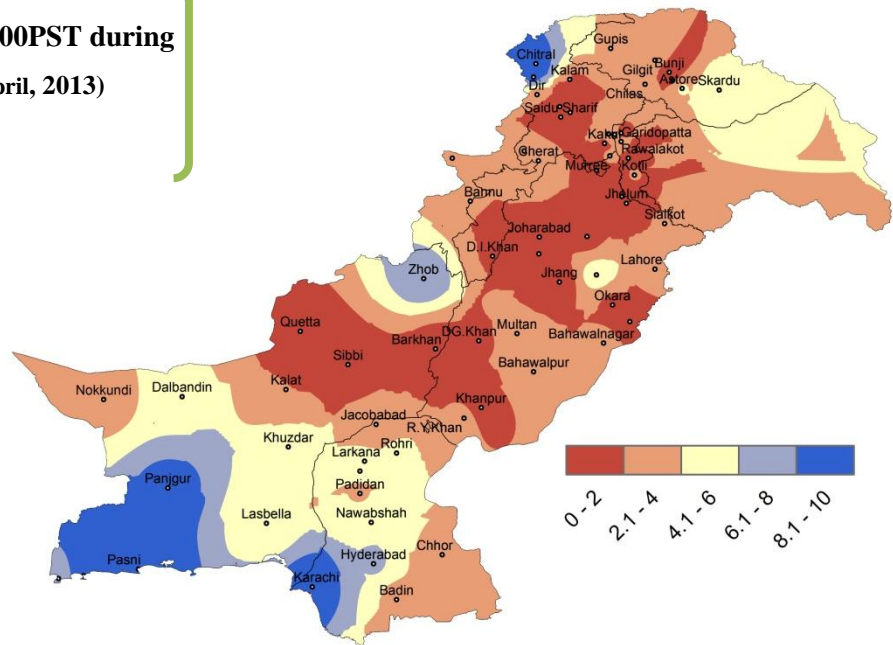
Mean Cloudiness (Oktas) at 1700PST during the last week (from 8th to 14th April, 2013)



Mean wind speed (Knots) at 0800 PST during the last week (from 8th to 14th April, 2013)



Mean wind speed (Knots) at 1700 PST during the last week (from 8th to 14th April, 2013)



Weekly Weather advisory for Farmers (from 15th to 21th April, 2013)

A strong westerly system prevailing over Baluchistan and northern areas which may be expected to grip upper parts of the country. Another shallow westerly wave is expected to affect upper country during next few days.

Punjab including Islamabad:

Scattered rain-thunderstorm associated with gusty winds is expected in upper Punjab, Islamabad on Tuesday. Hot & dry is expected from Wednesday to Friday. However, rain/thundershowers at isolated places of the province including Islamabad is expected in on during weekend.

Khyber Pakhtunkhwa:

Isolated Rain-thunderstorm associated with gusty winds is expected in upper parts of the provinces on Tuesday. Dry is expected from Wednesday to Friday. Isolated rain-thunderstorm is also expected in upper KP during the weekend.

Balochistan:

Scattered rain/thundershowers associated with gusty winds (with scattered heavy falls in Makran and Kalat divisions) expected in Balochistan on Friday. However, isolated rain/thunderstorm is also expected in Northeast Balochistan on Sunday.

Sindh:

Very Hot & Dry weather with gusty winds is expected during whole week expect rain/thunderstorm at isolated place on Friday.

Kashmir:

Mostly partly cloudy weather conditions with rain-thunderstorm are expected at isolated places in Kashmir on Tuesday and during weekend (Saturday and Sunday).

Gilgit-Baltistan:

Mostly partly cloudy weather conditions with rain-thunderstorm are expected at isolated places in GB from Tuesday & during the weekend.

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 8th to 14th April, 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	4.2	0.5	45.9	42	4.0	2.4	4.7	1.1	4.6
Badin	21.6	20	166.5	52	0.1	1.1	1.0	2.9	3.1
Bahawalnagar	20.8	18.8	159.5	47	0.0	2.0	3.6	0.3	2.9
Bahawalpur	19.9	18.2	156.2	48	2.0	1.4	2.6	0.6	3.1
Balakot	11.8	10.0	116.4	57	4.2	1.9	7.0	0.0	2.7
Bannu	15.6	12.0	123.9	49	3.0	3.3	3.7	3.4	2.0
Barkhan	14.3	13	112.1	43	13	1.6	3.7	0.0	0.3
Bunji	13.9	12.8	106.1	55	0.0	4.6	5.9	0.0	0.0
Cherat	14.1	12.0	76.9	51	2.0	1.	2.6	3.7	3.1
Chhor	21.0	19.0	170.2	49	0.0	0.4	0.7	2.0	2.6
Chilas	16.4	13.6	123.8	28	0.0	3.6	5.4	0.6	3.7
Chitral	8.6	6.8	117.9	57	0.0	3.4	5.7	0.0	9.6
D.I.Khan	18.0	16.5	100.6	55	7.1	2.3	2.0	0.3	1.7
Dalbandin	15.4	14	140.1	43	0.1	2.0	5.1	1.7	5.1
D.G.khan	19.9	17.5	157.1	45	2.0	1.6	4.0	2.0	1.4
Dir	5.6	4.5	103.0	63	12	2.6	5.7	0.0	2.1
Drosh	7.8	6	84.1	46	2.0	3.0	5.4	0.0	8.6
Faislalabad	19.8	18.2	153.2	46	4.0	2.0	2.1	2.0	5.4
Gawader	19.7	18	101.8	74	0.0	1.3	1.7	0.0	9.1
Gilgit	9.2	8.0	93.3	39	0.4	4.1	4.9	0.0	4.0
Gupis	7.9	6.0	71.3	38	0.0	1.4	3.9	1.4	4.0

Hyderabad	21.5	19.5	165	47	7.0	0.3	1.7	4.0	6.3
Islamabad	15.0	13.0	125.3	57	1.1	2.4	3.1	1.4	1.1
Jacobabad	21.4	19	162.4	58	0.0	0.4	1.9	2.0	2.9
Jhang	18.6	18.8	150.8	54	0.0	0.7	2.6	0.3	0.3
Jhelum	17.2	16.0	143.9	52	0.2	2.4	2.9	1.1	1.4
Jiwani	21.8	20.0	125.9	66	.0.	2.1	1.9	0.9	6.1
Kakul	9.5	8.5	69.6	60	5.0	1.6	5.9	0.0	1.4
Kalam	4.5	2.5	94.2	57	0.0	1.4	5.3	0.0	2.0
Kalat	7.8	4.0	102.0	46	12	1.1	3.4	0.3	2.0
Karachi	22.8	20.	160.3	64	23	2.5	3.0	2.0	10.0
Khanur	20.2	19	157.6	47	4.0	0.9	0.7	0.3	1.1
Lahore	19.4	18	153.3	43	1.0	2.9	2.1	0.8	2.9
Larkana	21.6	20.4	166.8	42	0.0	0.6	2.0	3.4	4.3
Lasbella	19.5	18.0	153.1	54	5.0	3.3	1.9	1.4	4.0
Malamjabba	6.9	5.0	21.6	53	3.0	1.9	4.9	0.3	0.0
Mangla	15.3	14.3	134.0	59.	3.2	4.0	3.7	2.0	0.6
Mirkhni	14.1	9.0	111.5	48	2.0	3.1	4.0	0.0	1.9
Moinjodaro	18.6	16.0	156.9	43	0.0	0.2	0.6	2.6	4.3
Multan	20.4	18.8	136.6	69	2.1	2.9	3.3	2.0	3.1
Murree	8.5	7.0	62.2	54	15.2	2.9	4.9	2.3	2.3
Muzaffarabad	13.6	12.8	119.0	59	5.0	1.3	5.0	0.0	4.1
Noorpurthal	18.9	17	155.9	58	12	.9	2.4	0.0	1.1
Okara	20.1	18.5	152.4	53	8.0	1.9	3.4	0.5	1.4
Padidan	20.3	18.5	162	56	0	0.6	3.1	1.7	3.7

Panjgaur	13.7	11	92.5	47	6	0.9	2.3	2.6	9.1
Parachinar	1.7	1.0	60.5	77	102.0	6.3	5.4	3.0	3.0
Pasni	20.1	18	107.3	76	9.0	2.0	2.3	1.1	10.0
Pattan	12.6	9	114.9	46	4.0	1.4	4.7	0.0	0.6
Peshawar	17.6	16	121.5	56	5.1	3.3	3.1	1.7	2.3
Quetta	4.8	2.5	102.6	59	17.0	2.1	5.1	0.0	0.9
R Y Khan	19.6	16.4	158.7	54	4.0	1.1	1.1	1.4	2.6
Rawalakot	5.5	4.8	60.2	68	52.1	1.1	5.4	0.0	1.4
Rohri	22.9	20.0	169.4	46	0.0	0.3	2.1	3.1	4.3
Sahiwal	18.6	17.2	138.8	57	0.2	1.7	2.1	0.9	0.9
Sialkot	16.8	16	128.3	52	2.2	2.3	2.3	0.6	2.3
Sibbi	19	14	124.3	41	0.1	1.3	2.0	0.0	0.0
Skardu	6.1	4.0	62.7	37	0.1	4.0	4.9	0.0	4.7
Zhob	12.0	10.4	143.5	48	13	2.4	3.3	5.0	8.0

*** Data not available