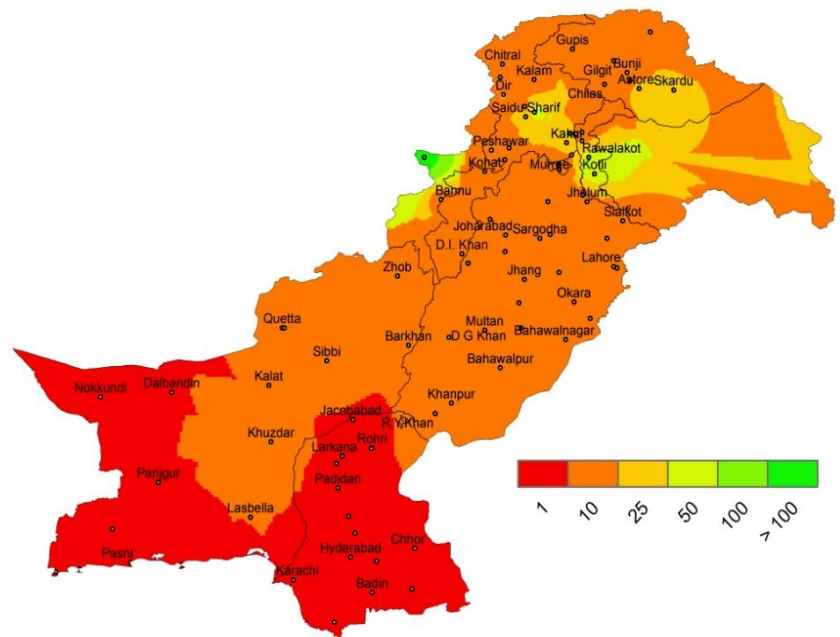


Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall distribution (mm) during the
Last week (from 6th to 12th May, 2013)**



Contents

Highlights of past weather (General)	1-2
Past weather for Agri Plains	3-4
Crop progress	4
Min Temperature maps	5
R. H & GDD	6
Cloudiness maps	7
Wind speed maps	8
Farmers advisory	9
National data for selected stations	10-11

Highlights of Past Weather (6th to 12th May, 2013)

Light to moderate rainfall occurred in most of the agricultural plains of the country during the week except Balochistan where it occurred at a few places and Sindh where dry weather prevailed. Where as the day temperatures are gradually on increase all over the country especially in the lower half.

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

Punjab

Rainfall reported in most parts of the province during the week. Weekly maximum temperature and minimum temperature recorded as 38.4 °C & 22.6°C respectively. For the present season on average 180.6 growing degree days accumulated by the end of last week. Average relative humidity recorded as 42% and wind speed in the morning/evening recorded as 1.7/3.6 Knots. During the previous week highest amount of rainfall reported at Chakwal as 8.2 mm and extreme maximum temperature recorded as 43.5 °C at the Bahawalnagar.

Sindh

No rainfall reported in the province during the week. Weekly maximum temperature and minimum temperature recorded as 40.6°C & 25.1°C respectively. For the present season on average 191.0 growing degree days accumulated by the end of last week. Average relative humidity recorded as 47% and wind speed in the morning/evening recorded as 4.6/7.4 Knots. Extreme maximum temperature recorded as 46.8°C at Dadu.

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 29.8°C & 15.0°C respectively. For the present season on average 133.2 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 1.2/2.9 Knots. During the previous week the highest rainfall recorded at Parachinar as 101.0 mm and extreme maximum temperature recorded as 39.5°C at D.I.Khan.

Balochistan

Light rainfall reported from a few places in the agricultural plains of the province during the week. Weekly maximum temperature and minimum temperature recorded as 34.5°C & 17.1 °C respectively. For the present season on average 147.6 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 2.2/6.4 Knots. During the previous week highest amount of rainfall reported at Sibbi as 5.1 mm and extreme maximum temperature recorded as 43.0 °C at Turbat.

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 27.4°C & 13.2°C respectively. For the present season on average 57.4 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 1.2/3.6 Knots. During the previous week the highest rainfall recorded at Gupis as 35.0 mm and extreme maximum temperature recorded as 38.0°C at Pattan.

Past Weather for Major Agricultural Plains (from 6th to 12th May, 2013)

Rawalpindi (Potohar region)

Rainfall reported as 6.9 during the week however cloudiness in the morning/evening as 1.2/1.5 Oktas while average relative humidity observed as 43 %. Mean day time temperature recorded as 35.4 °C & for the present season 159.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.0/2.3 Km/h.

Faisalabad (Central Punjab)

Rainfall reported as Trace (indeterminate) during the week however cloudiness in the morning/evening as 3.6/3.5 Oktas while average relative humidity observed as 30%. Mean day time temperature recorded as 38.0 °C & for the present season 180.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.6/2.0 Km/h.

Tandojam (Lower Sindh)

No rainfall reported during the week, however cloudiness in the morning/evening as 0.4/0.0 Oktas while average relative humidity observed as 48%. Mean day time temperature recorded as 39.0 °C & for the present season 187.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 5.1/9.1 Km/h.

Quetta (Northern Balochistan)

Rainfall reported as 1.8 mm during the week however cloudiness in the morning/evening as 2.7/3.6 Oktas while average relative humidity observed as 32%. Mean day time temperature observed as 26.3°C & for the present season 98.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.7/6.6 Km/h.

Usta Muhammad (Eastern Balochistan)

No rainfall reported during the week, however cloudiness in the morning/evening as 0.6/1.4 Oktas while average relative humidity observed as 41%. Mean day time temperature recorded as 40.3°C &

for the present season 188.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 4.2/5.8 Km/h.

Past Weather for sub regional Agri-cultural Plains (from 6th to 12th May, 2013)

Rohri

No rainfall reported during the week however cloudiness in the morning/evening as 1.7/1.2 Oktas while average relative humidity observed as 34 %. Mean day temperature recorded as 41.7°C & for the present season 210.2 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 2.9/4.0 Knots.

Multan

Rainfall reported as 4.1 mm during the week however cloudiness in the morning/evening as 2.1/2.7 Oktas while average relative humidity observed as 36 %. Mean day temperature recorded as 39.2°C & for the present season 190.5 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 1.7/6.3 Knots.

Lahore

Rainfall reported as 1.2 mm during the week however cloudiness in the morning/evening as 2.7/2.7 Oktas while average relative humidity observed as 35%. Mean day time temperature recorded as 38.3°C & for the present season 186.7 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 1.4/4.6 Knots.

Zhob

Rainfall reported as 5.0 mm during the week however cloudiness in the morning/evening as 2.4/5.0 Oktas while average relative humidity observed as 32%. Mean day temperature recorded as 30.0°C & for the present season 134.0 growing degree days accumulated by the end of last week. . Wind recorded in the morning/evening as 5.6/9.0 Knots.

D.I. Khan

Rainfall reported as 0.1 mm during the week however cloudiness in the morning/evening as 1.6/3.1 Oktas while average relative humidity observed as 41%. Mean day temperature recorded as 37.1°C & for the present season 171.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.4/0.6 Knots.

Peshawar

Rainfall reported as 0.2 mm during the week however cloudiness in the morning/evening as 2.7/4.7 Oktas while average relative humidity observed as 46%. Mean day temperature recorded as 34.4°C & for the present season 165.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/2.7 Knots.

Murree

Rainfall reported as 10.0 mm during the week however cloudiness in the morning/evening as 3.3/4.5 Oktas while average relative humidity observed as 49%. Mean day temperature recorded as 21.8°C & for the present season 91.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.9/0.9 Knots.

Kalam

Rainfall reported as 5.0 mm during the week however cloudiness in the morning/evening as 2.6/6.0 Oktas while average relative humidity observed as 52%. Mean day temperature recorded as 21.1°C & for the present season 67.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/1.1 Knots.

Gilgit

Rainfall reported as 1.7 mm during the week, however cloudiness in the morning/evening as 6.3/6.3 Oktas while average relative humidity observed as 56%. Mean day temperature recorded as 25.0°C & for the present season 96.8 growing

degree days accumulated by the end of last week. Wind speed recorded in the morning/evening 0.0/4.6 Knots.

Skardu

Rainfall reported as 11.0 mm during the week however cloudiness in the morning/evening as 6.0/6.6 Oktas while average relative humidity observed as 45%. Mean day temperature recorded as 21.0°C & for the present season 69.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 6.0/8.7 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 *Full Maturity* stage, ready for *Threshing*.

Central Punjab (Faisalabad)

There are two crops (irrigated conditions) grown in the fields as detailed below.

Sugarcane: Good condition at *Tillering* stage completed.

Cotton: Good condition at *Third Leaf* stage.

Lower Sindh (Tandojam)

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

Cotton(BT-3701): Good condition at *Germination* stage.

Northern Balochistan (Quetta)

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

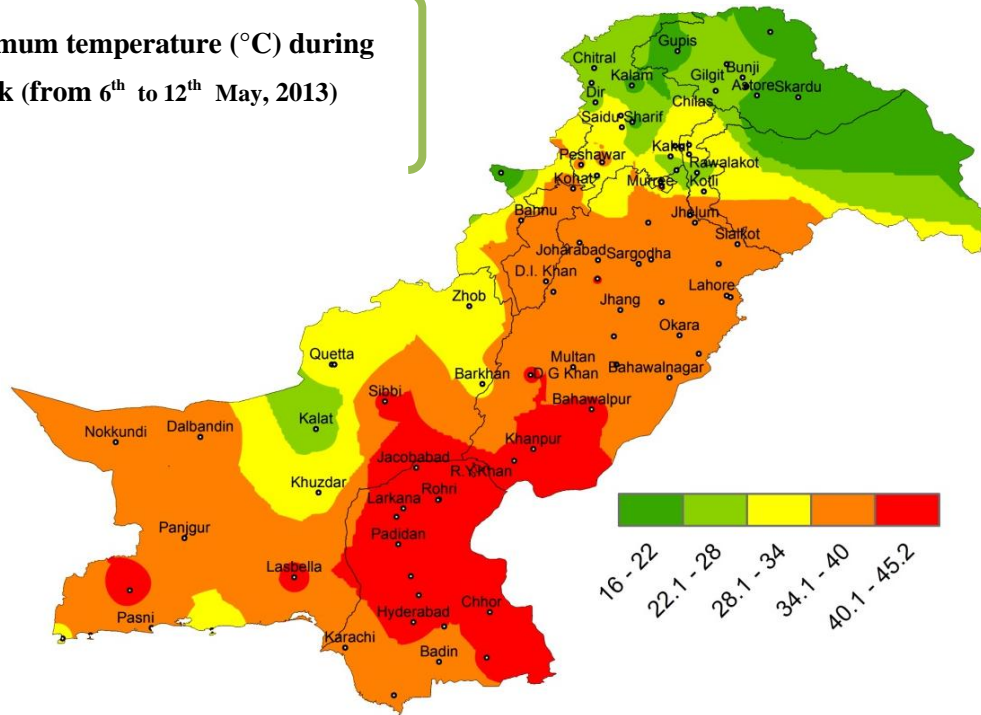
Wheat: Good condition at *Milk Maturity* stage.

Eastern Balochistan (Usta Muhammad)

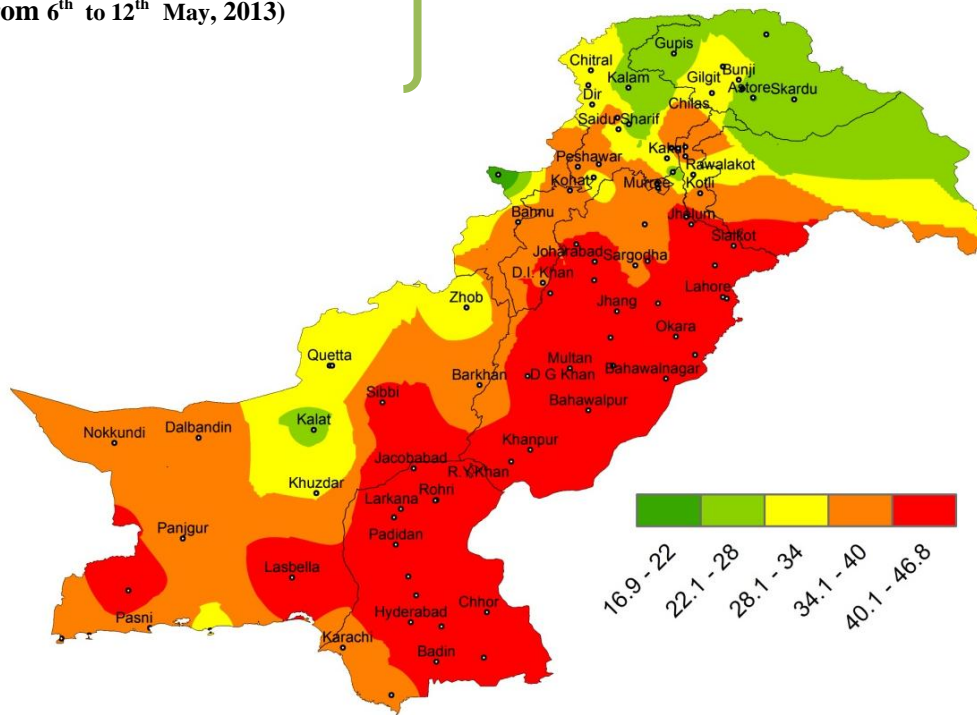
There is presently one crop (irrigated conditions) grown in the fields as detailed below.

Wheat: Good condition at *Full Maturity* stage.

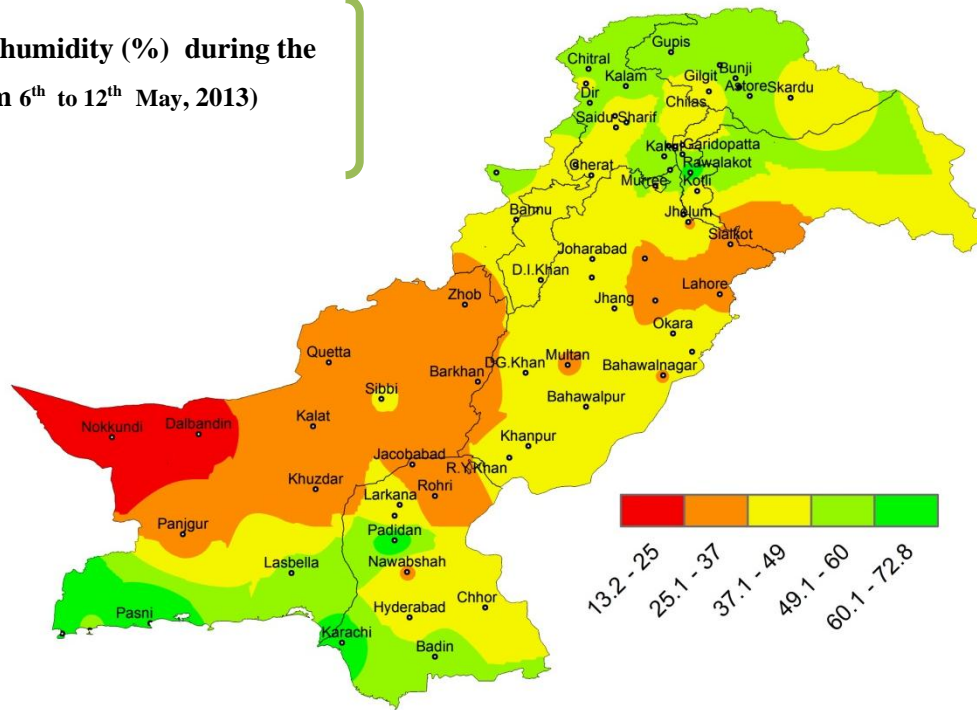
Mean maximum temperature (°C) during the last week (from 6th to 12th May, 2013)



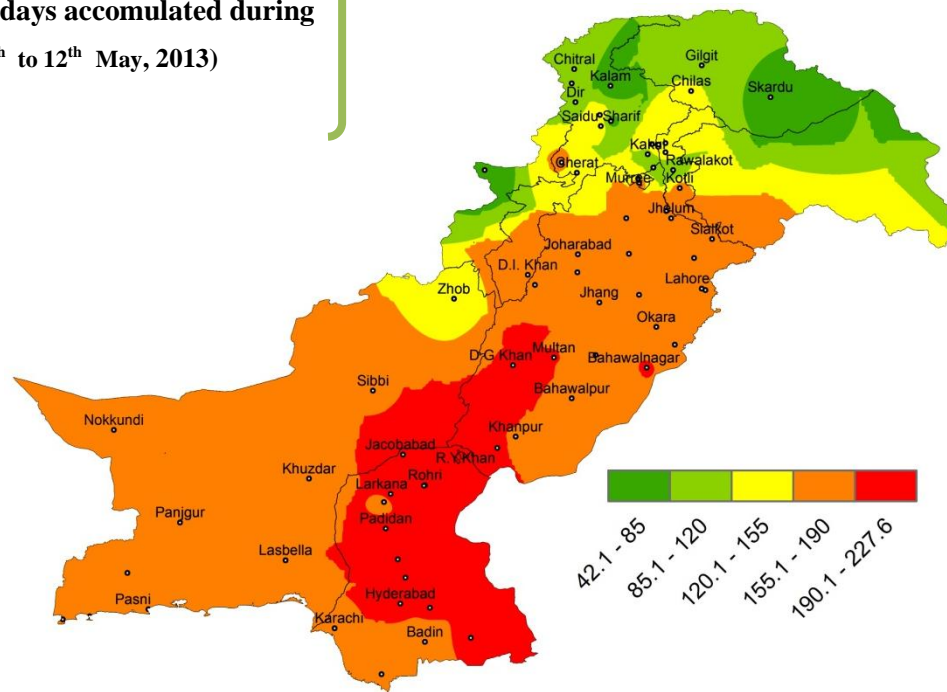
Extreme maximum temperature (°C) during the last week (from 6th to 12th May, 2013)



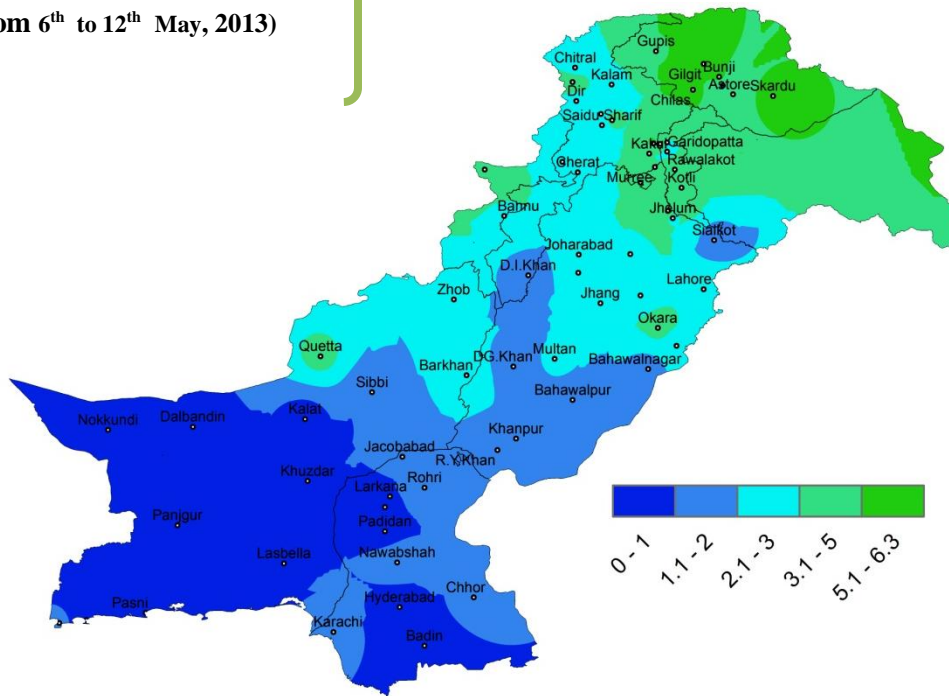
Mean relative humidity (%) during the last week (from 6th to 12th May, 2013)



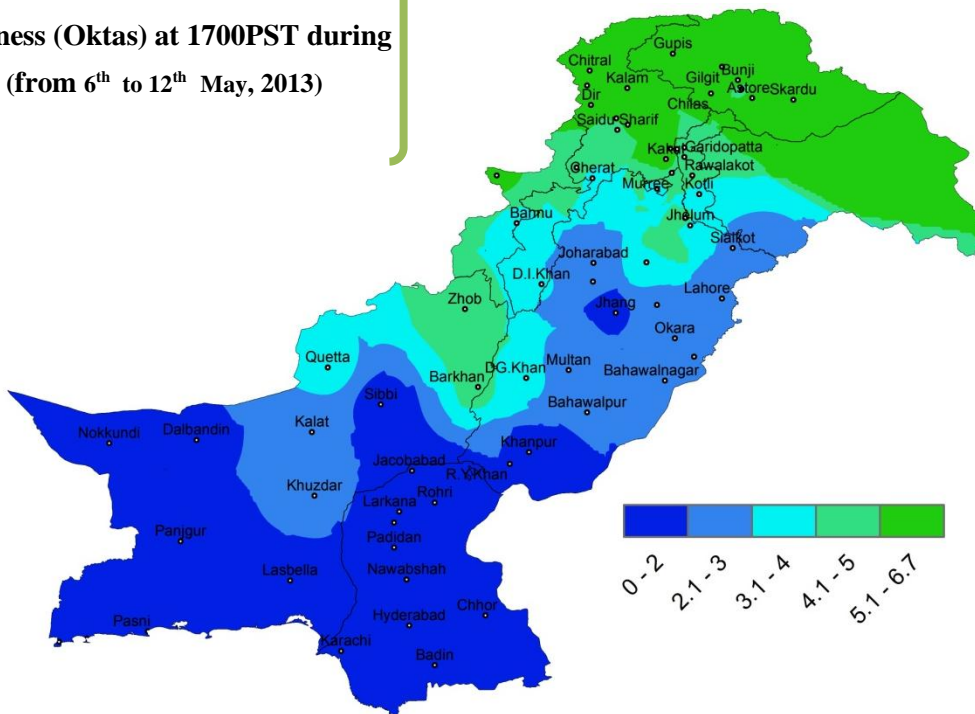
Total growing degree days accumulated during the last week (from 6th to 12th May, 2013)



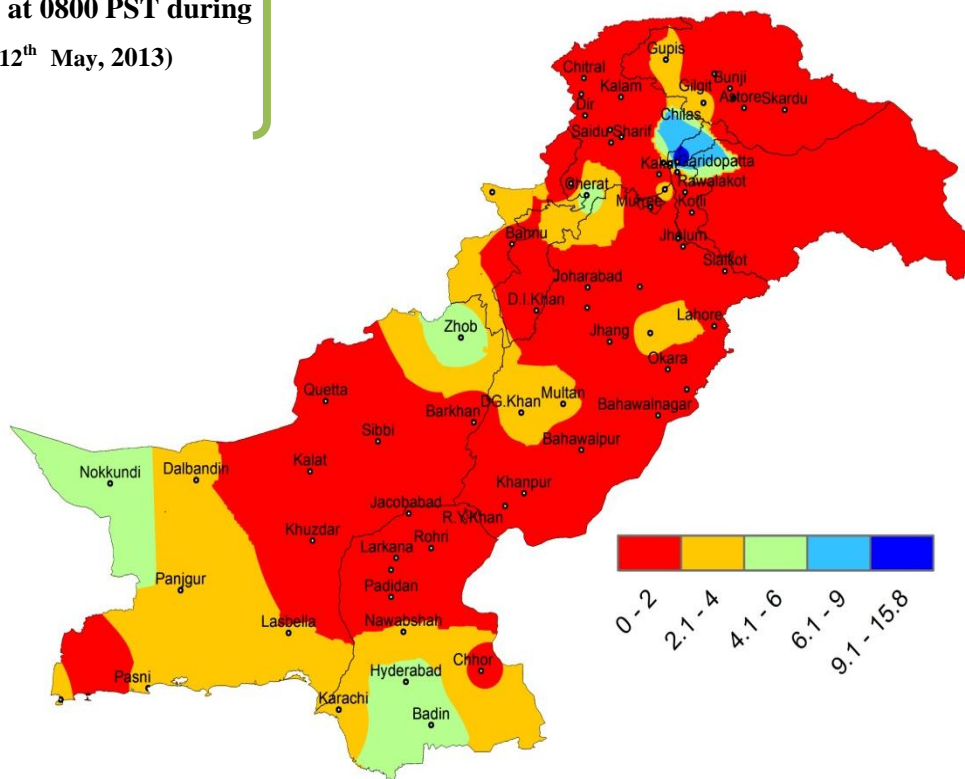
Mean Cloudiness (Oktas) at 0800PST during the last week (from 6th to 12th May, 2013)



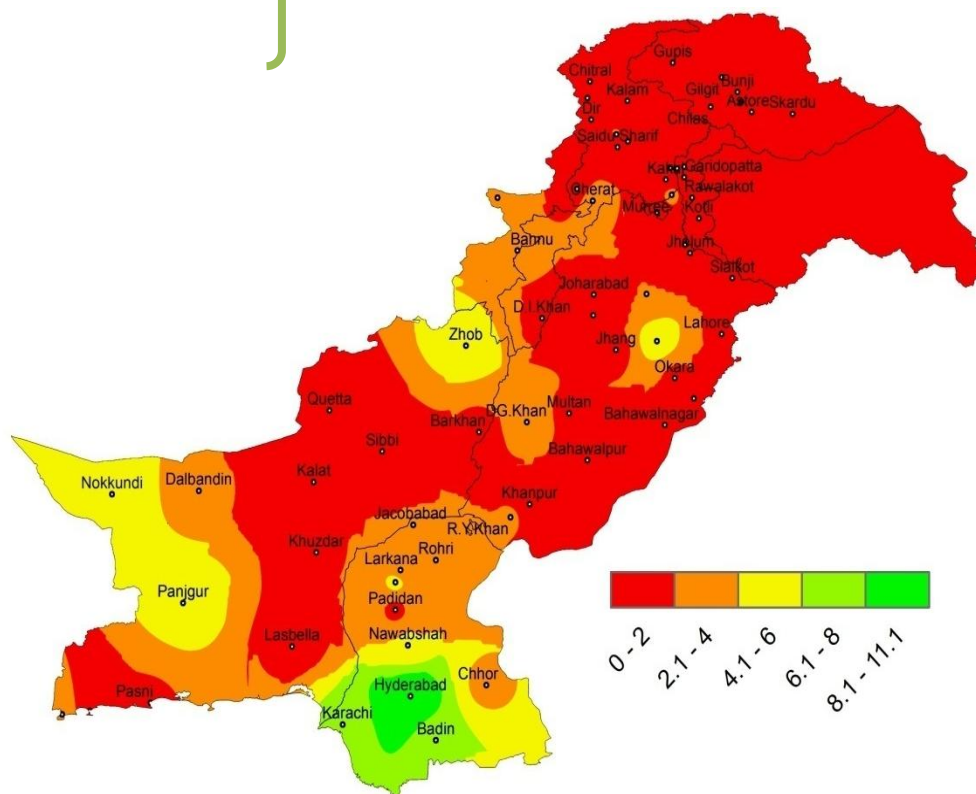
Mean Cloudiness (Oktas) at 1700PST during the last week (from 6th to 12th May, 2013)



Mean wind speed (Knots) at 0800 PST during the last week (from 6th to 12th May, 2013)



Mean wind speed (Knots) at 1700 PST during the last week (from 6th to 12th May, 2013)



Weekly Weather advisory for Farmers (from 13th to 19th May, 2013)

A low lies over Balochistan and its adjoining areas. Continental air would prevail over most parts of the country during the current week. A shallow westerly wave is affecting northern parts of the country and its adjoining areas and likely to move eastward during next 12-18 hours.

Punjab including Islamabad:

Mainly hot & dry weather is expected in most parts of the province during the week. However Dust-thunderstorm/Rain may occur at one or two places in sub mountain Punjab during tonight. However first heat wave conditions likely to grip over Southern parts of the province during the second half of the week.

Khyber Pakhtunkhwa:

Mainly hot & dry weather is expected in most parts of the province during the week. However Dust-thunderstorm/Rain may occur at isolated places in Malakand, Hazara and Peshawar divisions during tonight. However first heat wave conditions likely to grip over Southern parts of the province during the second half of the week.

Balochistan:

Mainly hot & dry weather is expected in most parts of the province during the week. However first heat wave conditions likely to grip over most parts of the province during the second half of the week.

Sindh:

Mainly hot & dry weather is expected in most parts of the province during the week. However first

heat wave conditions likely to grip over most parts of the province during the second half of the week.

Kashmir:

Mainly hot & dry weather is expected in most parts of the province during the week. However Dust-thunderstorm/Rain may occur at isolated places in Kashmir during tonight.

Gilgit-Baltistan:

Mainly dry weather is expected in most parts of the province during the week. However Dust-thunderstorm/Rain may occur at isolated places in Gilgit-Baltistan during tonight.

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 6th to 12th May, 2013)

STATIONS	Maximum/Day 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	Highest Maximum							
Astore	15.9	21.5	***	59	17.6	4.5	6.7	2.0	4.0
Badin	38.4	42.5	186.2	53	0.0	0.4	0.0	6.6	8.0
Bahawalnagar	40.0	43.5	190.6	37	4.0	1.4	2.0	0.9	2.0
Bahawalpur	40.4	43.2	187.1	40	6.0	1.9	2.0	0.6	3.4
Balakot	29.9	34.5	133.0	49	18.0	5.6	6.1	0.9	3.7
Bannu	35.5	37.3	***	43	1.2	2.9	3.7	2.6	5.1
Barkhan	33.3	36.0	***	32	2.1	2.7	4.3	1.1	2.3
Bunji	24.1	28.7	***	61	4.2	5.8	6.7	0.8	0.0
Cherat	27.2	30.0	123.0	41	0.0	2.1	3.7	3.4	2.3
Chhor	40.9	44.5	***	46	0.0	1.4	0.1	3.1	5.4
Chilas	27.9	32.7	126.8	42	3.5	5.6	5.9	1.7	3.7
Chitral	27.6	30.0	96.0	58	2.0	2.7	5.9	1.4	7.1
D.I.Khan	37.1	39.5	171.4	41	0.1	1.6	3.1	1.4	0.6
Dalbandin	36.9	38.5	***	23	0.0	0.4	1.7	2.6	3.0
DG.Khan	40.2	42.5	194.6	43	2.0	1.4	3.3	3.1	5.1
Dir	27.2	32.0	96.9	59	10.6	2.7	5.4	0.0	2.1
Drosh	27.7	30.6	98.0	43	0.0	3.4	5.3	0.0	8.9
Faisalabad	37.9	40.5	182.7	30	0.1	2.7	2.6	5.7	6.3
Garidopatta	31.4	36.0	140.6	56	12.0	2.6	4.3	0.0	1.1
Gawader	36.0	38.0	174.5	58	0.0	0.6	0.3	0.9	14.7
Gilgit	25.0	30.0	96.8	56	1.7	6.3	6.3	0.0	4.6
Gupis	21.1	25.0	***	51	10.0	4.8	5.3	1.0	4.0
Hyderabad	40.6	42.5	191.0	45	0.0	0.4	1.1	11.1	20.6
Islamabad	33.9	37.5	151.3	49	6.3	3.1	3.7	0.3	2.9
Jacobabad	42.2	43.5	204.6	35	0.0	1.3	1.1	2.0	1.7
Jhang	39.1	41.0	182.9	40	0.5	2.6	1.9	1.1	0.3
Jhelum	38.1	41.2	185.2	34	3.4	2.7	3.9	1.7	4.3
Jiwani	33.3	34.0	165.7	65	0.0	1.1	0.5	3.1	9.3
Joharabad	38.1	40.5	181.4	49	2.1	2.3	2.3	1.7	2.3
Kakul	27.7	30.5	110.0	56	12.0	2.9	5.4	0.0	0.9
Kalam	21.1	25.0	67.2	52	0.0	2.6	6.0	0.0	1.1
Kalat	25.6	27.0	***	30	0.0	0.6	2.3	0.0	2.3
Karachi	34.7	37.5	178.0	65	0.0	1.4	1.2	6.9	10.7
Khanpur	40.2	42.0	189.9	40	1.0	1.7	1.6	0.9	4.0
Khuzdar	32.8	34.0	158.0	29	0.2	0.9	2.7	0.9	5.3

Kotli	34.0	37.3	166.4	42	34.6	3.9	3.1	1.1	2.0
Lahore	38.3	41.0	186.7	35	1.2	2.7	2.7	1.4	4.6
Larkana	42.4	44.0	205.5	39	0.0	1.0	2.0	3.1	7.1
Lasbella	40.4	43.5	185.0	50	0.0	0.7	1.5	0.9	6.0
Lower Dir	34.1	37.5	152.1	41	2.0	2.4	5.1	2.3	2.0
M.B Din	37.5	40.2	181.7	36	3.0	2.7	4.0	2.0	3.4
Malam Jabba	17.9	21.0	65.0	50	34.0	3.4	5.4	0.3	0.0
Mangla	37.2	40.5	173.0	50	7.0	4.0	4.3	1.1	6.9
Mir Khani	25.7	27.0	***	48	0.0	2.4	3.7	0.0	3.0
Moinjodaro	41.7	43.0	181.1	40	0.0	0.6	1.0	4.6	4.3
Multan	39.2	41.2	190.5	36	4.1	2.1	2.7	1.7	6.3
Murree	21.8	25.5	91.1	49	10.0	3.3	4.9	2.9	0.9
Muzaffarabad	32.1	36.4	142.8	49	7.0	4.3	4.9	0.0	3.1
Nawabshah	37.0	39.0	200.3	35	0.0	1.6	1.6	4.6	5.6
Nokkundi	43.3	44.5	178.0	13	0.0	0.0	0.7	5.7	4.9
Noorpurthal	40.1	43.5	187.7	40	0.0	2.3	2.0	0.9	0.0
Okara	38.6	41.5	184.8	43	3.1	3.3	2.3	1.4	2.9
Padidan	41.3	43.0	194.8	73	0.0	0.7	1.0	1.4	3.3
Panjgur	37.4	38.5	171.3	33	0.0	0.4	1.1	5.7	12.4
Parachinar	16.4	16.9	42.0	56	121.6	4.0	5.4	3.6	3.4
Pasni	34.4	35.5	167.2	73	0.0	0.6	1.3	1.7	16.6
Pattan	32.8	38.0	139.8	39	0.0	2.9	4.1	0.3	0.9
Peshawar	34.4	37.5	165.3	46	0.2	2.7	4.7	0.6	2.7
Quetta	28.4	30.0	***	33	0.0	3.3	3.7	0.0	1.4
R.Y.Khan	40.5	43.0	190.1	37	0.1	1.4	2.0	2.3	4.3
Rawalakot	23.7	27.8	85.4	67	31.6	4.9	4.9	0.0	0.0
Rohri	41.7	44.5	210.2	34	0.0	1.7	1.2	2.9	4.0
Sahiwal	39.1	41.3	182.9	44	3.0	2.7	2.6	1.4	2.9
Saidu Sharif	30.6	34.0	134.4	47	15.0	2.3	4.3	0.6	0.9
Sialkot	37.2	40.4	178.8	35	2.7	1.6	2.6	0.9	2.6
Sibbi	40.7	42.5	185.0	37	5.1	1.1	1.3	0.0	0.0
Skardu	21.0	25.3	69.8	45	10.0	6.0	6.6	0.0	8.7
Zhob	30.0	31.5	134.0	32	5.0	2.4	5.0	5.6	9.0

*** Data not available