

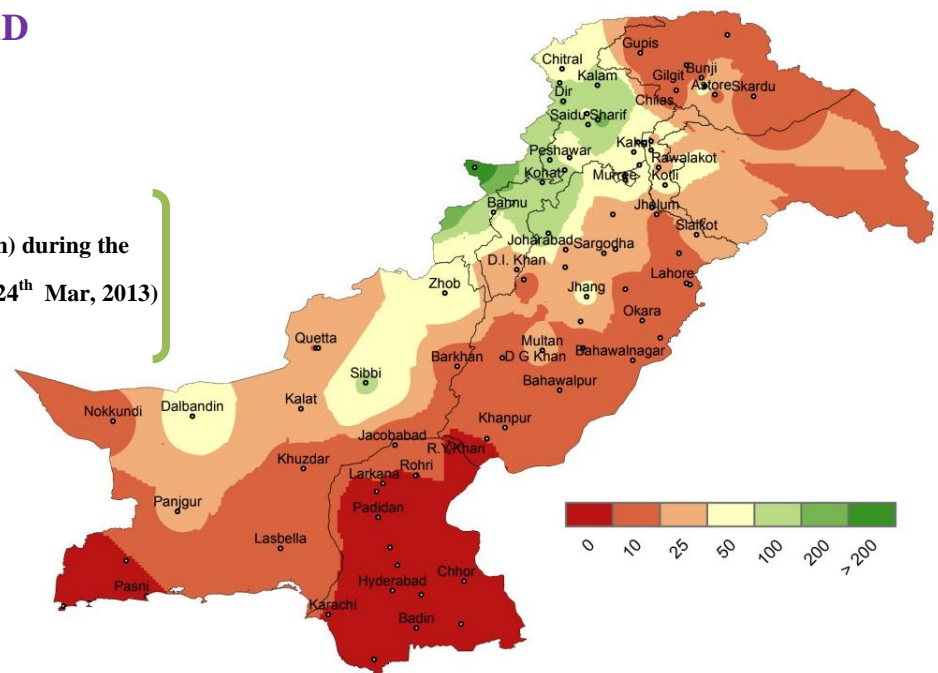
Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall distribution (mm) during the
Last week (from 18th to 24th Mar, 2013)**



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Highlights of Past Weather (18th Mar to 24th Mar, 2013)

Light to moderate rainfall occurred in most of the agricultural plains of the country during the week except Sindh province where rainfall occurred in traces at a single place.

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 28.5°C & 12.4°C respectively. For the present season on average 117.2 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 1.0/2.6 Knots. During the previous week highest amount of rainfall reported at Mianwali as 68.1 mm and extreme minimum temperature recorded at Murree as 3.0 °C.

Sindh

Rainfall in traces reported from a single place Jacobabad during the week. Weekly maximum temperature and minimum temperature recorded as 34.3°C & 17.5°C respectively. For the present season on average 146.7 growing degree days accumulated by the end of last week. Average relative humidity recorded as 50 % and wind speed in the morning/evening recorded as 2.3/6.0 Knots. During the previous week extreme minimum temperature recorded as 12.0 °C at Mithi.

Khyber Pakhtoon Khawa

Moderate to heavy rainfall reported from most of the agricultural plains of the province during the week. Weekly maximum temperature and minimum temperature recorded as 19.1°C & 5.0°C respectively. For the present season on average 64.9 growing degree days accumulated by the end of last week. Average relative humidity recorded as 73 % and wind speed in the morning/evening recorded as 1.3/1.8 Knots. During the previous week the highest rainfall recorded at Parachinar as 206.0 mm and extreme minimum temperature recorded as -1.2°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 28.1°C & 12.2°C respectively. For the present season on average 110.5 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 1.2/8.7 Knots. During the previous week highest amount of rainfall reported at Sibi as 53.0 mm and extreme minimum temperature recorded as 2.5°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 20.0°C & 6.4°C respectively. For the present season on average 64.1 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 0.9/6.9 Knots. During the previous week the highest rainfall recorded at Muzaffarabad as 24.1 mm and extreme minimum temperature recorded as -2.4°C at Astore.

Past Weather for Major Agricultural Plains

(from 18th to 24th Mar, 2013)

Rawalpindi (Potohar region)

Rainfall reported as 34.6 mm during the week however cloudiness in the morning/evening as 3.4/4.4 Oktas while average relative humidity observed as 63%. Mean night temperature recorded as 13.3°C & for the present season 102.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.8/2.4 Km/h.

Faisalabad (Central Punjab)

Rainfall reported as 1.5 mm during during the week however cloudiness in the morning/evening as 2.9/5.6 Oktas while average relative humidity observed as 56%. Mean night temperature recorded as 15.2°C & for the present season 120.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.1/2.6 Km/h.

Tandojam (Lower Sindh)

No rainfall reported during the week, however cloudiness in the morning/evening as 1.8/1.4 Oktas while average relative humidity observed as 56%. Mean night temperature recorded as 17.4°C & for the present season 149.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.4/4.6 Km/h.

Quetta (Northern Balochistan)

Rainfall reported as 6.8 mm during the week however cloudiness in the morning/evening as 3.4/5.0 Oktas while average relative humidity observed as 43%. Mean night temperature observed as 7.9°C & for the present season 59.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 4.7/7.6 Km/h.

Usta Muhammad (Eastern Balochistan)

Rainfall reported as 4.0 mm during the week, however cloudiness in the morning/evening as

1.1/1.1 Oktas while average relative humidity observed as 63%. Mean night temperature recorded as 17.7°C & for the present season 130.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.5/0.8 Km/h.

Past Weather for sub regional Agri-cultural Plains (from 18th to 24th Mar, 2013)

Rohri

No rainfall reported during the week however cloudiness in the morning/evening as 1.3/1.1 Oktas while average relative humidity observed as 44%. Mean night temperature recorded as 19.7°C & for the present season 148.8 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 3.0/4.6 Knots.

Multan

Rainfall reported as 13.0 mm during the week however cloudiness in the morning/evening as 3.7/4.6 Oktas while average relative humidity observed as 65%. Mean night temperature recorded as 16.4°C & for the present season 126.2 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 2.0/5.4 Knots.

Lahore

Rainfall reported as 10.0 mm during the week however cloudiness in the morning/evening as 2.0/3.9 Oktas while average relative humidity observed as 58%. Mean night temperature recorded as 16.7°C & for the present season 125.5 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 2.3/5.1 Knots.

Zhob

Rainfall reported as 38.0 during the week however cloudiness in the morning/evening as 3.2/4.7 Oktas while average relative humidity observed as 55%. Mean night temperature recorded as 9.6°C & for the present season *** growing degree days

accumulated by the end of last week. Wind recorded in the morning/evening as 4.2/9.9 Knots.

D.I. Khan

Rainfall reported as 23.0 mm during the week however cloudiness in the morning/evening as 3.7/4.6 Oktas while average relative humidity observed as 56%. Mean night temperature recorded as 15.1°C & for the present season 111.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.3/6.0 Knots.

Peshawar

Rainfall reported as 56.0 mm during the week however cloudiness in the morning/evening as 4.8/6.4 Oktas while average relative humidity observed as 72%. Mean night temperature recorded as 14.67°C & for the present season 100.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.7/2.3 Knots.

Murree

Rainfall reported as 49.1 mm during the week however cloudiness in the morning/evening as 3.7/5.6 Oktas while average relative humidity observed as 58%. Mean night temperature recorded as 7.0°C & for the present season 41.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.0/2.1 Knots.

Kalam

Rainfall reported as 57.0 mm during the week however cloudiness in the morning/evening as 5.0/7.1 Oktas while average relative humidity observed as 82%. Mean night temperature recorded as 1.1°C & Wind speed recorded in the morning/evening as 0.0/0.0 Knots

Gilgit.

Rainfall reported as 0.3 mm during the week, however cloudiness in the morning/evening as 5.9/6.9 Oktas while average relative humidity

observed as 46%. Mean night temperature recorded as 8.4°C & for the present season 74.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/2.9 Knots.

Skardu

Rainfall reported as 0.2 mm during the week however cloudiness in the morning/evening as 5.1/6.1 Oktas while average relative humidity observed as 35%. Mean night temperature recorded as 5.7°C and wind speed recorded in the morning/evening as 0.0/4.1 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): Harvested on 20th March, 2013.

Northern Balochistan (Quetta)

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

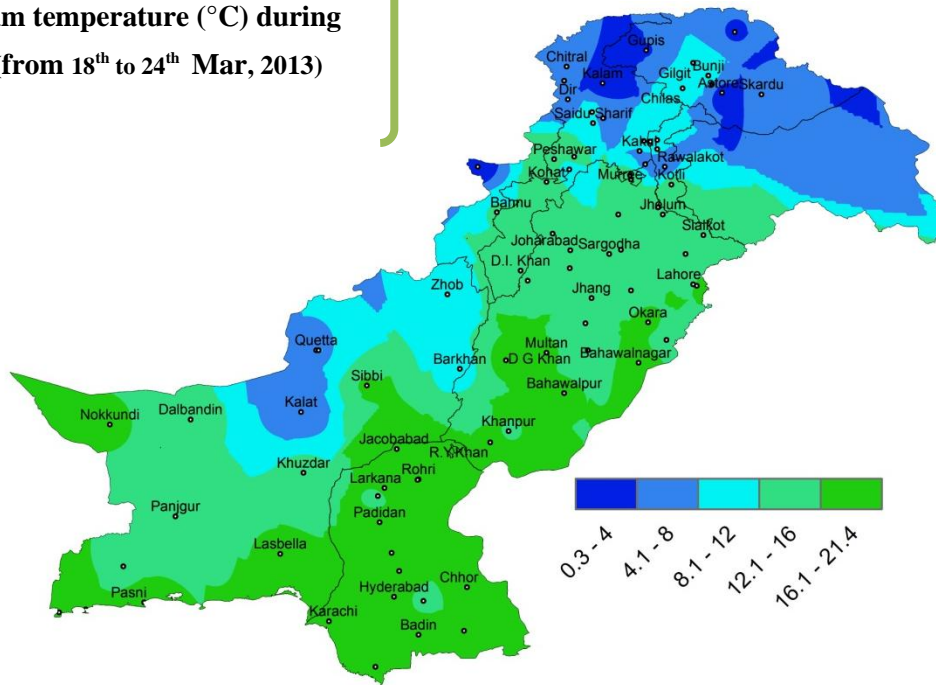
Wheat: Good condition at *Shooting* stage.

Eastern Balochistan (Usta Muhammad)

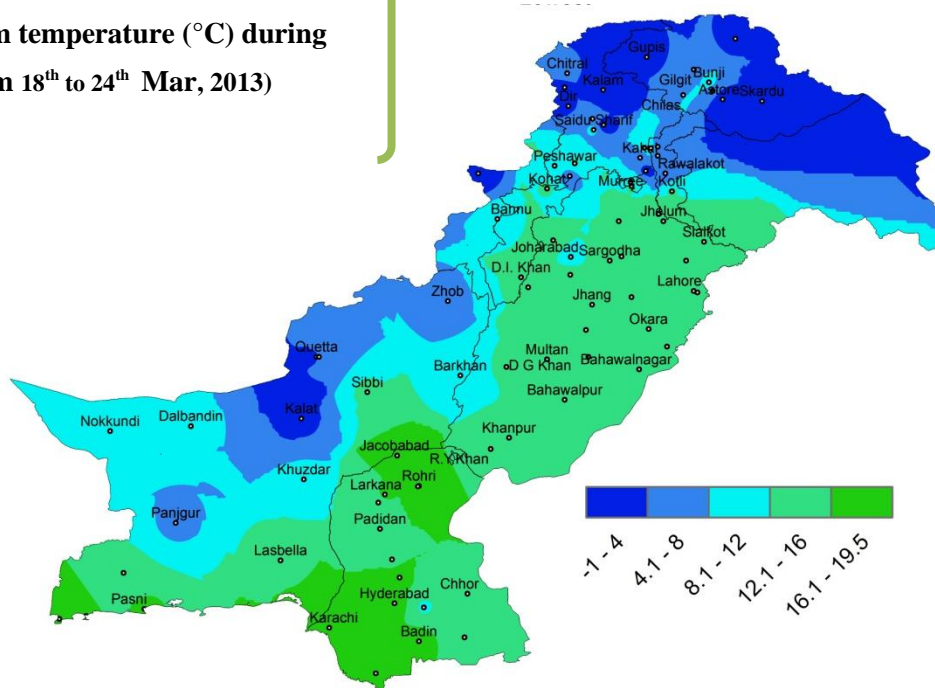
There is presently one crop (irrigated conditions) grown in the fields as detailed below.

Wheat: Good condition at *Heading stage completed*.

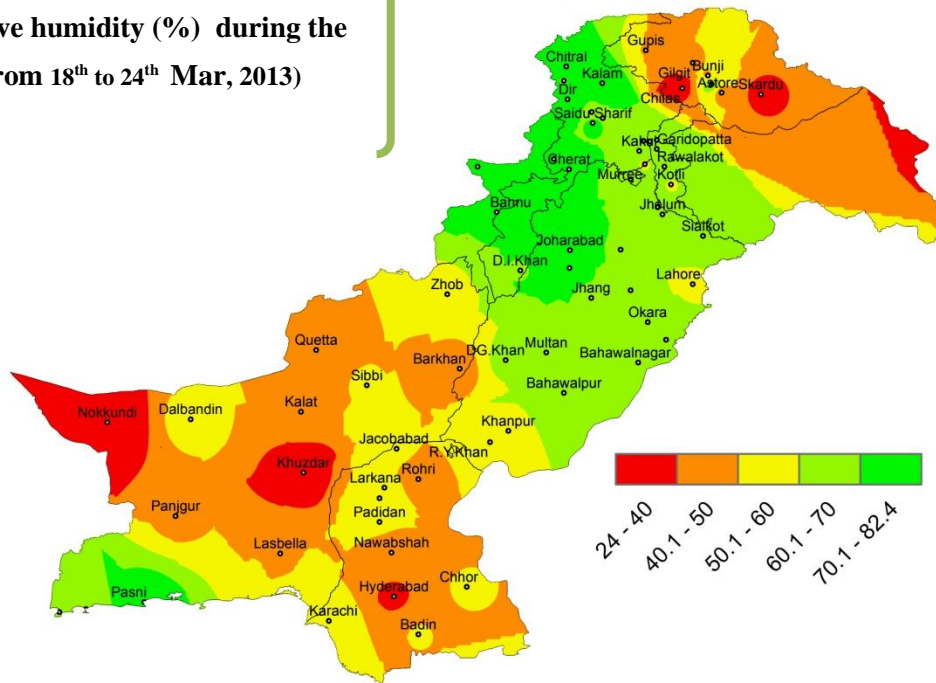
Mean minimum temperature (°C) during the last week (from 18th to 24th Mar, 2013)



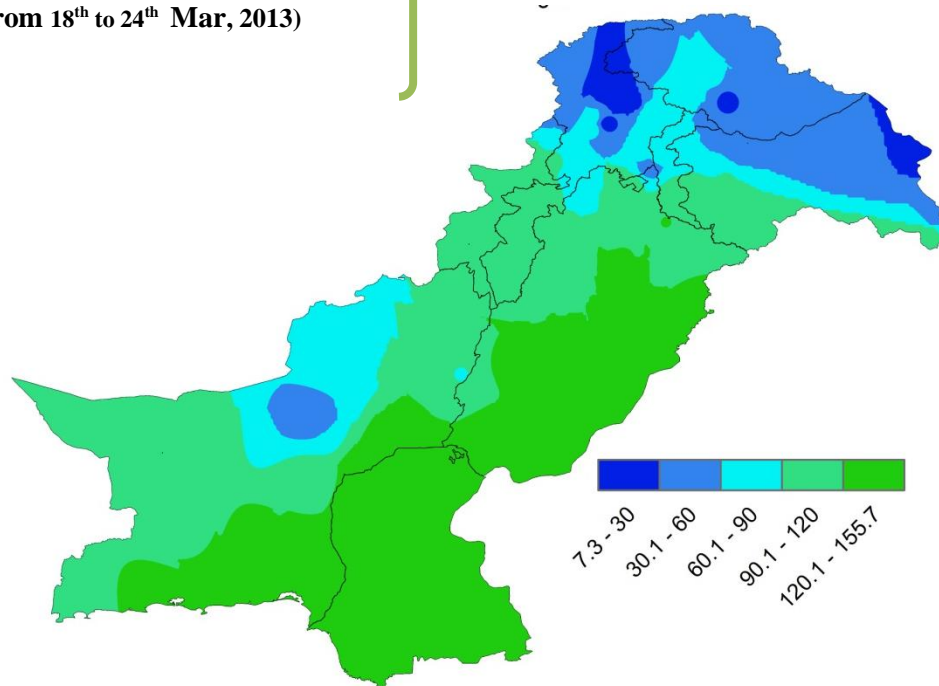
Extreme minimum temperature (°C) during the last week (from 18th to 24th Mar, 2013)



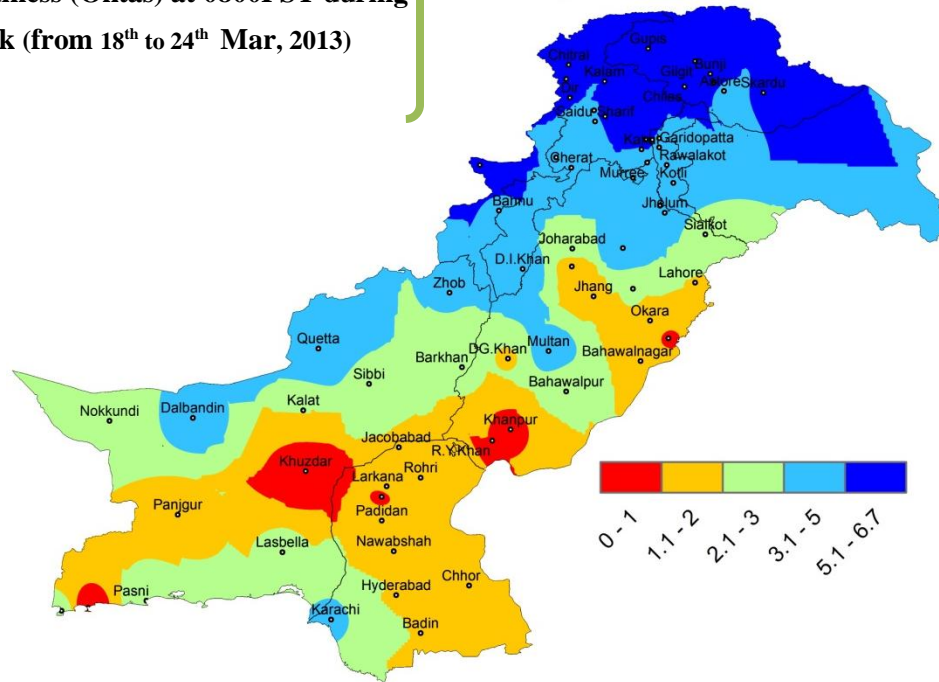
Mean relative humidity (%) during the last week (from 18th to 24th Mar, 2013)



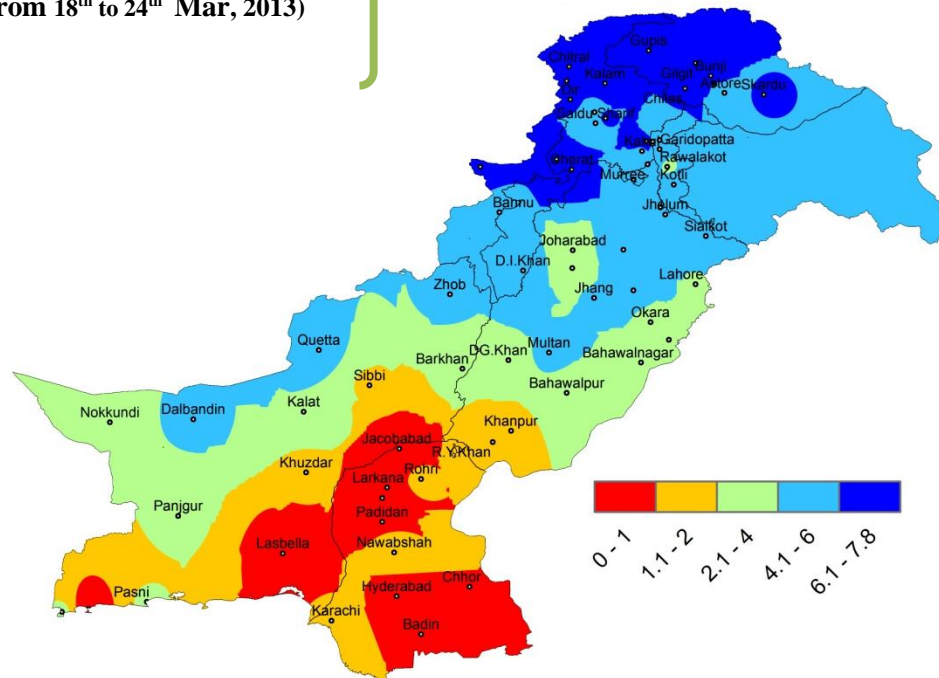
Total growing degree days accumulated during the last week (from 18th to 24th Mar, 2013)



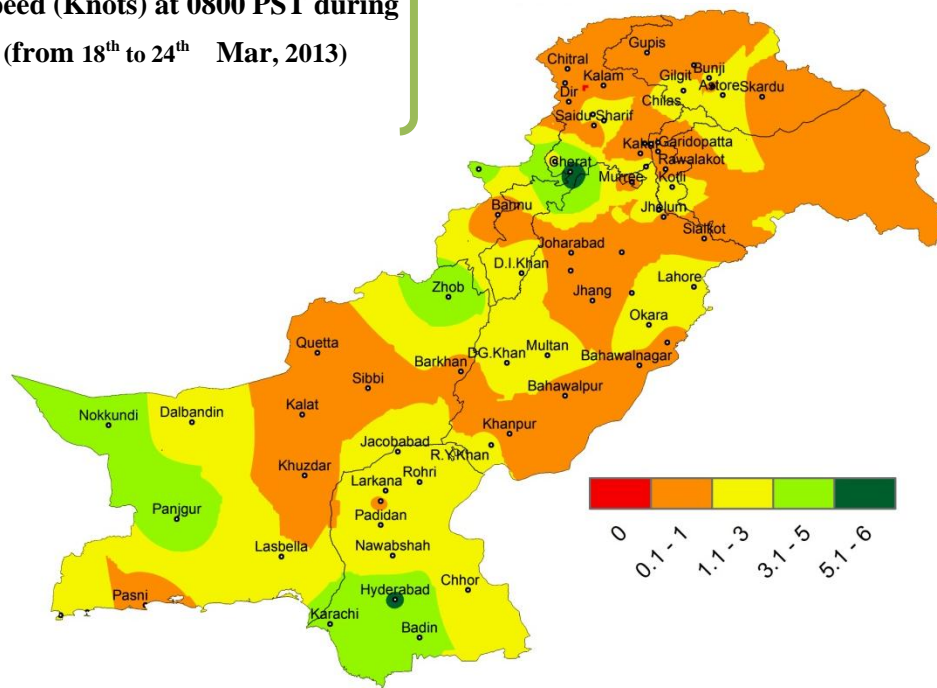
Mean Cloudiness (Oktas) at 0800PST during the last week (from 18th to 24th Mar, 2013)



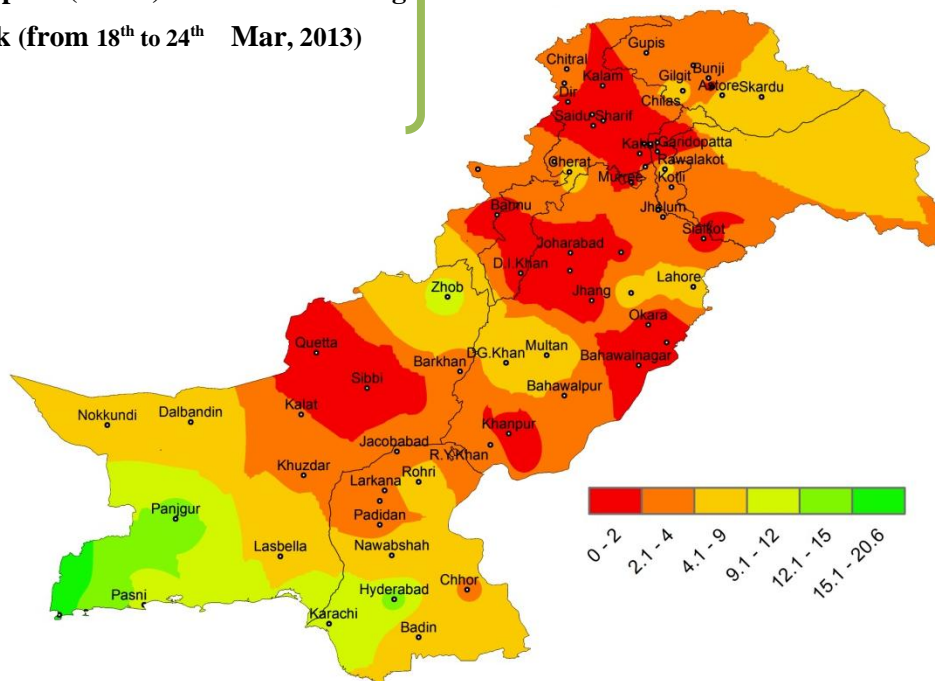
Mean Cloudiness (Oktas) at 1700PST during the last week (from 18th to 24th Mar, 2013)



Mean wind speed (Knots) at 0800 PST during the last week (from 18th to 24th Mar, 2013)



Mean wind speed (Knots) at 1700 PST during the last week (from 18th to 24th Mar, 2013)



Weekly Weather advisory for Farmers (from 25th to 31th March, 2013)

A shallow westerly wave is expected to approach western parts of Baluchistan on Tuesday (evening) and likely to prevail over Upper & Central parts of the country during Wednesday and Thursday.

Punjab including Islamabad:

Mainly dry weather conditions are expected in most parts of the province during the week. However, rain-thunderstorm associated with gusty winds is expected at isolated places of southern and central parts of the the province on Wednesday & Thursday.

Khyber Pakhtunkhwa:

Partly cloudy to cloudy weather conditions are expected in most part of the province during the week. However, scattered rain-thunderstorm associated with gusty winds is expected in southern parts of the province on Wednesday & Thursday.

Balochistan:

Rain-thunderstorm associated with gusty winds is expected at scattered places in Balochistan on Tuesday (evening/night) & Wednesday and in North Baluchistan on Thursday. Dry weather is expected during the weekend.

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 Wednesday/Thursday.

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 Wednesday to Friday.

Gilgit-Baltistan:

Partly cloudy to cloudy weather conditions is expected in G-B during the week. However, light rain is expected at isolated places in G-B during second half 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. 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 18th to 24th March, 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	0.2	-1.0	12.7	44	5.0	4.1	5.4	2.9	7.4
Badin	19.5	18.0	146.8	51	0.0	2.0	1.0	3.0	5.1
Bahawalnagar	17.3	15.7	133.6	63	5.0	1.7	3.3	0.9	0.6
Bahawalpur	16.5	14.0	133.7	64	0.3	2.3	3.7	0.3	3.4
Balakot	10.1	8.6	78.6	63	32.1	6.3	6.4	0.3	2.0
Bannu	12.5	11.0	93.2	75	48.1	4.7	5.0	0.0	1.7
Barkhan	10.4	8.5	88.8	44	5.0	2.3	2.6	0.7	2.6
Bunji	11.8	9.7	84.8	48	0.0	5.9	7.1	1.4	2.3
Cherat	9.2	5.0	60.9	74	61.0	5.0	7.0	6.0	4.9
Chhor	18.1	15.3	155.4	51	0.0	1.7	1.0	1.7	3.7
Chilas	10.9	8.0	84.7	34	0.1	5.4	6.7	1.7	4.6
Chitral	6.7	5.4	43.6	76	33.0	6.0	7.9	0.3	2.3
D G Khan	17.2	12.7	129.2	70	7.0	4.1	5.3	2.0	1.4
D.I. Khan	15.1	12.5	111.4	56	23.0	3.7	4.6	2.3	6.0
Dalbandin	13.6	9.0	113.8	64	34.0	1.9	3.4	1.4	5.4
Dir	4.5	3.5	34.8	82	104.0	5.0	6.9	0.0	0.6
Drosh	3.9	2.9	33.3	69	50.0	6.7	7.3	0.0	3.7
Faisalabad	15.4	14.0	121.0	62	4.0	2.2	5.1	1.0	5.4
Garidopatta	7.9	6.5	68.0	70	33.0	4.3	4.9	0.0	0.3

Gawader	16.6	16.0	103.6	66	0.0	0.0	0.0	1.7	13.4
Gilgit	8.4	5.0	74.0	46	0.3	5.9	6.9	0.0	2.9
Gupis	3.8	2.5	33.8	50	1.0	6.0	6.3	0.6	3.4
Hyderabad	18.9	18.0	155.7	38	0.0	2.0	0.9	5.2	12.9
Islamabad	12.4	11.0	96.7	69	28.2	4.6	5.0	0.9	2.0
Jacobabad	18.6	17.0	142.0	53	0.1	2.0	0.4	2.3	2.9
Jhang	14.6	13.0	120.1	67	29.0	1.6	4.3	0.0	1.4
Jhelum	15.2	14.0	122.1	67	4.1	3.4	5.7	0.6	3.7
Jiwani	20.6	19.0	***	66	0.0	2.7	2.3	1.3	20.6
Joharabad	14.1	11.0	114.3	78	17.1	2.7	3.6	0.6	1.7
Kakul	7.5	5.7	62.1	67	45.1	4.9	5.9	0.6	1.1
Kalam	1.1	0.0	7.5	82	57.0	5.0	7.1	0.0	0.0
KLT	4.1	2.5	44.5	47	17.0	2.0	4.0	0.3	2.0
Karachi	21.4	19.5	155.4	60	0.0	3.2	1.1	3.3	10.9
Khanpur	15.9	14.0	133.6	59	0.0	0.9	1.4	0.6	1.1
Khuzdar	13.4	9.0	104.3	32	2.0	0.0	1.3	0.7	3.7
Kotli	14.5	12.5	108.0	59	30.1	4.6	4.7	1.9	2.1
Lahore	16.7	15.0	125.5	58	10.0	2.0	3.9	2.3	5.1
Larkana	18.4	17.0	145.8	53	0.0	1.5	0.9	2.0	4.0
Lasbella	16.6	15.0	144.0	50	4.0	2.3	0.4	1.0	8.9
Lower Dir	10.1	8.0	75.3	67	39.0	4.9	4.9	2.3	2.0
M.B.din	16.0	14.2	122.0	68	19.2	4.3	5.4	0.9	1.7
Malam Jabba	3.2	1.0	6.0	70	124.0	6.0	6.7	1.6	0.6
Mangla	13.9	12.8	113.0	64	18.1	4.4	5.7	1.4	3.4

Mir Khani	7.2	6.6	54.2	71	43.0	5.9	5.9	0.4	1.1
Moen-Jo-Daro	14.7	13.0	135.8	57	0.0	0.7	0.6	0.7	3.4
Multan	16.4	13.0	126.2	65	13.0	3.7	4.3	2.0	5.4
Murree	7.0	3.0	41.7	58	49.1	3.7	5.6	2.0	2.1
Muzaffarabad	11.4	10.0	87.6	64	41.1	4.9	6.1	0.9	1.9
Nawabshah	16.4	15.5	***	45	0.0	2.0	1.1	2.0	5.9
Nokkundi	16.5	11.1	***	24	6.0	2.0	3.1	3.4	8.9
Noorpur Thal	14.6	13.0	118.7	73	20.0	1.3	3.0	0.3	0.3
Okara	16.5	15.5	128.1	65	2.0	1.9	3.6	2.0	1.1
Padidan	16.9	15.5	143.0	51	0.0	1.8	1.0	1.3	3.4
Panjgur	13.2	7.0	111.0	46	12.0	1.3	2.3	4.0	12.6
Parachinar	0.6	-1.0	***	82	268.0	6.7	7.1	3.7	3.0
Pasni	17.6	16.5	134.0	79	0.0	3.0	2.1	0.0	11.4
Pattan	8.9	6.0	71.5	68	17.0	4.9	4.0	0.6	41.6
Peshawar	14.6	12.0	100.2	72	56.0	4.8	6.4	2.7	2.3
Quetta	6.2	2.5	***	44	7.0	4.7	5.0	0.3	2.0
R.Y.Khan	16.6	13.8	138.9	58	0.0	1.0	1.6	1.2	2.6
Rawalakot	4.9	4.5	***	70	20.1	3.4	3.7	0.0	5.0
Rohri	19.7	17.5	149.8	44	0.0	1.3	1.1	3.0	4.6
Sahiwal	14.8	14.2	121.7	69	3.0	0.9	2.4	0.3	0.9
Saidu Sharif	10.6	9.0	71.6	71	65.0	4.1	4.9	0.0	0.0
Sialkot	14.3	13.7		67	14.1	2.0	4.7	0.3	1.4
Sibbi	16.4	13.0	***	51	53.0	2.5	1.6	0.0	0.0
Skardu	5.7	3.6	***	35	0.2	5.1	6.1	0.0	4.1

Zhob	8.6	6.0	***	55	38.0	3.2	4.7	4.2	9.9
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*** Data not available