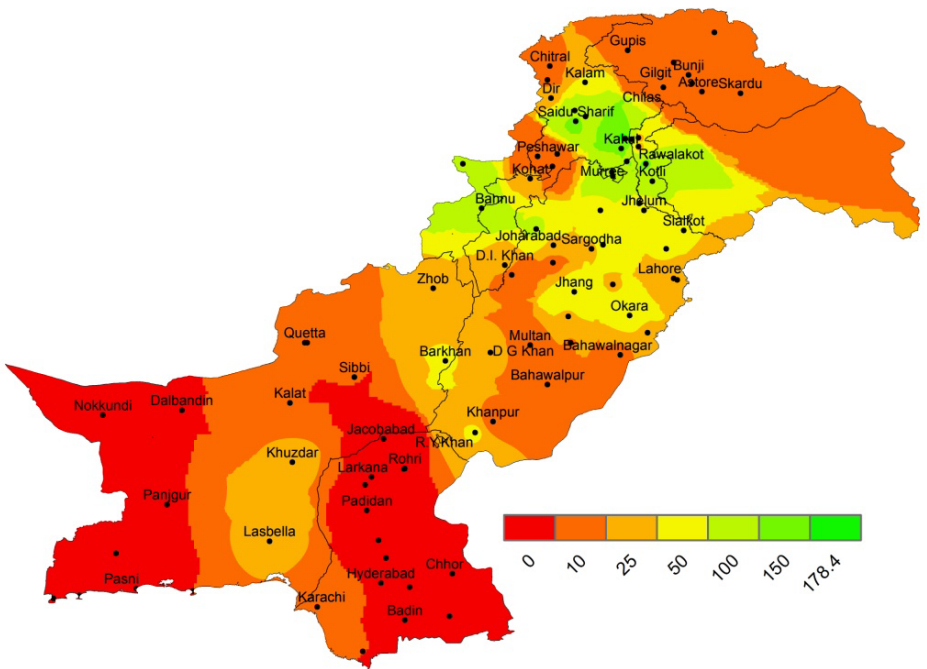


Weekly Weather and Crop Bulletin for Pakistan

**NATIONAL AGROMET
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**Rainfall distribution (mm) during the
Last week (from 01st to 07th July, 2013)**



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Highlights of Past Weather 01st to 07th July, 2013)

Light to moderate rainfall with isolated heavy downpours reported from a number of places in provinces of Punjab, Khyber Pakhtunkhwa, Northern Areas, Gilgit-Baltistan & Kashmir regions. Whereas light to moderate rainfall reported from few places in Sindh & Balochistan provinces.

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

Punjab

Light to moderate rainfall with isolated heavy downpours reported from a number of places in the province during the week. Weekly maximum temperature and minimum temperature recorded as 39.6 °C & 26.8°C respectively. For the present season on average 200.0 growing degree days accumulated by the end of last week. Average relative humidity recorded as 58% and wind speed in the morning/evening recorded as 2.2/3.5 Knots. During the previous week the highest amount of rainfall reported from Islamabad(Saidpur) as 105 mm and extreme maximum temperature recorded as 45.0 °C at the Bhakkkar.

Sindh

Light to moderate rainfall reported from few places in the province during the week. Weekly maximum temperature and minimum temperature recorded as 40.0 °C & 28.7°C respectively. For the present season on average 204.7 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 6.1/6.4 Knots. During the previous week the highest amount of rainfall reported from Mirpur Khas as 22.0 mm Extreme maximum temperature recorded as 45.0°C at Sukkur.

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 35.7°C & 20.9°C respectively. For the present season on average 162.1 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 1.7/3.4 Knots. During the previous week the highest rainfall

recorded at Malamjaba as 65.0 mm and extreme maximum temperature recorded as 43.0 °C at Kohat.

Balochistan

Light to moderate rainfall reported from few places of the province during the week. Weekly maximum temperature and minimum temperature recorded as 38.2°C & 24.5°C respectively. For the present season on average 186.1 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 1.5/6.1 Knots. During the previous week highest amount of rainfall reported at Barkhan as 24.0 mm and extreme maximum temperature recorded as 47.0 °C at Dalbandin.

Gilgit Baltistan and Azad Jammu & Kashmir

Light to moderate rainfall reported from few agricultural plains of the region during the week. Weekly maximum temperature and minimum temperature recorded as 34.7°C & 19.1°C respectively. For the present season on average 153.8 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 1.5/3.5 Knots. During the previous week the highest rainfall recorded at Muzaffarabad as 93.0 mm and extreme maximum temperature recorded as 42.8°C at Chilas.

Past Weather for Major Agricultural Plains (from 01st to 07th July, 2013)

Rawalpindi (Potohar region)

Rainfall reported as 84.0 mm during the week however cloudiness in the morning/evening 2.9/2.0 Oktas while average relative humidity observed as 56%. Mean day time temperature recorded as 32.0 °C & for the present season 188.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.1/1.6 Km/h.

Faisalabad (Central Punjab)

No rainfall reported during the week however cloudiness in the morning/evening as 2.3/1.6 Oktas while average relative humidity observed as 56%. Mean day time temperature recorded as 33.8°C & for the present season 201.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.7/2.6 Km/h.

Tandojam (Lower Sindh)

Rainfall reported as 1.0 mm during the week, however cloudiness in the morning/evening as 3.4/2.9 Oktas while average relative humidity observed as 76%. Mean day time temperature recorded as 33.2°C & for the present season 197.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 5.4/6.7 Km/h.

Quetta (Northern Balochistan)

No rainfall reported during the week, however cloudiness in the morning/evening as 2.1/4.0 Oktas while average relative humidity observed as 25%. Mean day time temperature observed as 28.3°C & for the present season 163.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 6.1/8.1 Km/h.

Usta Muhammad (Eastern Balochistan)

No rainfall reported during the week, however cloudiness in the morning/evening as 1.7/1.4 Oktas

while average relative humidity observed as 53%. Mean day time temperature recorded as 36.4°C & for the present season 219.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 4.2/4.8 Km/h.

Past Weather for sub regional Agri-cultural Plains (from 01st to 07th July, 2013)

Rohri

No rainfall reported during the week however cloudiness in the morning/evening as 2.4/0.4 Oktas while average relative humidity observed as 48%. Mean day temperature recorded as 43.2°C & for the present season 266.6 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 14.6/2.3Knots.

Multan

Rainfall reported as 1.0 mm during the week however cloudiness in the morning/evening as 2.1/1.7 Oktas while average relative humidity observed as 49%. Mean day temperature recorded as 40.8°C & for the present season 215.0 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 5.4/18.9 Knots.

Lahore

Rainfall reported as 60.0 mm during the week however cloudiness in the morning/evening as 4.9/4.0 Oktas while average relative humidity observed as 67%. Mean day time temperature recorded as 37.5°C & for the present season 190.2 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 2.3/4.6 Knots.

Zhob

No rainfall reported during the week however cloudiness in the morning/evening as 0.4/2.8 Oktas while average relative humidity observed as 32%. Mean day temperature recorded as 38.0°C & for the present season 180.1 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 5.0/9.0 Knots.

D.I. Khan

Rainfall reported as 12.0 mm during the week however cloudiness in the morning/evening as 1.0/2.4 Oktas while average relative humidity observed as 56%. Mean day temperature 40.4 °C & for the present season 197.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/1.1 Knots.

Peshawar

Rainfall reported as 0.2 mm during the week however cloudiness in the morning/evening as 1.8/2.1 Oktas while average relative humidity observed as 52%. Mean day temperature recorded as 38.9°C & for the present season 199.6 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.3/3.1 Knots.

Murree

Rainfall reported as 1.0 mm during the week however cloudiness in the morning/evening as 2.1/1.7 Oktas while average relative humidity observed as 49%. Mean day temperature recorded as 40.8°C & for the present season 215.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 5.4/18.9 Knots.

Kalam

Rainfall reported as 3.0 mm during the week however cloudiness in the morning/evening as 1.4/3.3 Oktas while average relative humidity observed as 55%. Mean day temperature recorded as 29.0°C & for the present season 130.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/2.6 Knots.

Gilgit

Rainfall reported as 3.2 mm during the week, however cloudiness in the morning/evening as 3.9/3.9 Oktas while average relative humidity observed as 43%. Mean day temperature recorded as 37.6°C & for the present season 162.2 growing degree days accumulated by the end of last week.

Wind speed recorded in the morning/evening 0.9/4.6 Knots.

Skardu

No rainfall reported as during the week however cloudiness in the morning/evening as 4.0/4.6 Oktas while average relative humidity observed as 39%. Mean day temperature recorded as 32.9 °C & for the present season 133.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/2.0 Knots.

Crop Situation for major agricultural plains (based on data from Regional Agromet Centres)

Potohar Region (Rawalpindi)

There is presently no crop in the fields.

Central Punjab (Faisalabad)

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

Sugarcane: Very Good condition, *Tillering* completed.

Cotton: Very Good condition, *flowering* stage completed.

Lower Sindh (Tandojam)

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

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

Northern Balochistan (Quetta)

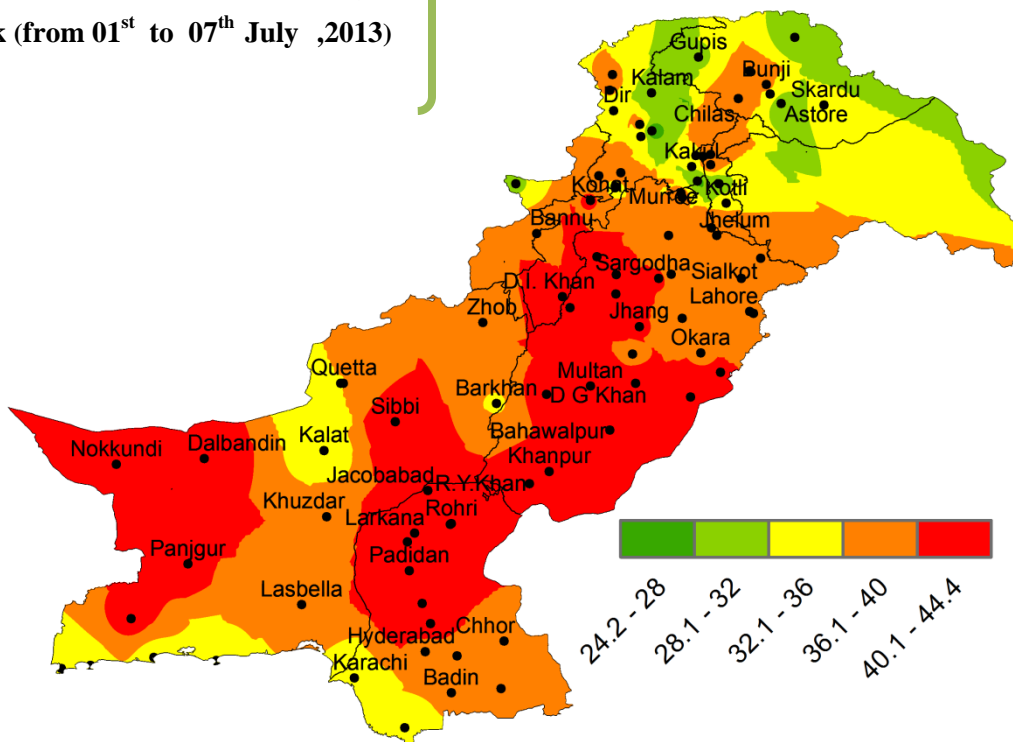
There is presently no crop in the fields.

Eastern Balochistan (Usta Muhammad)

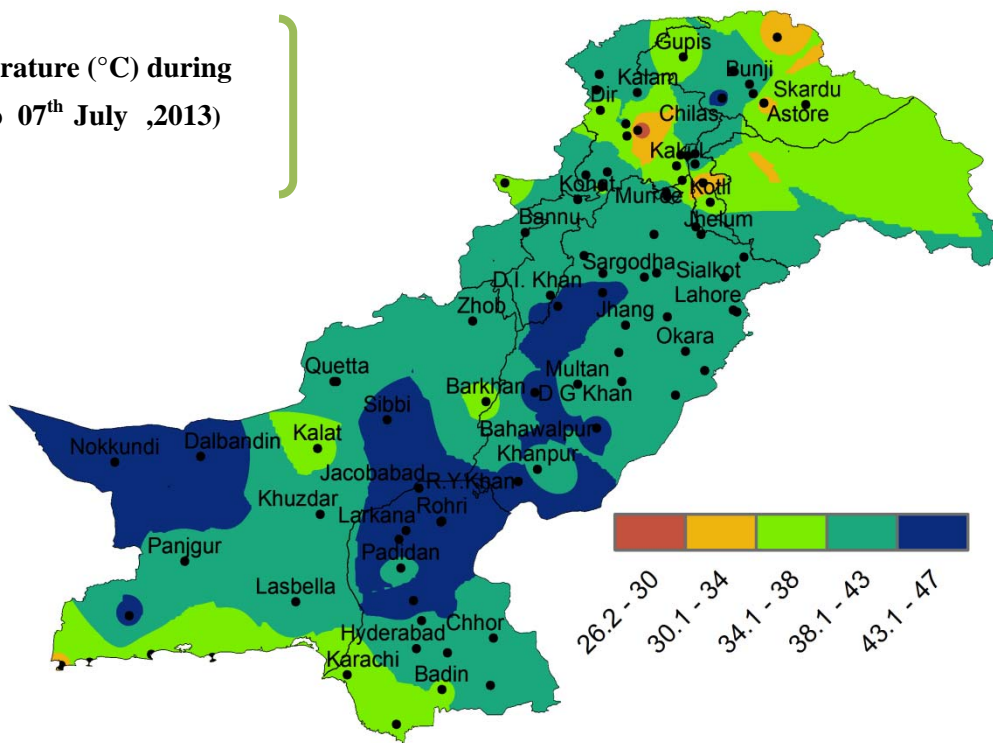
There is only one crop (irrigated condition) grown in the fields as detailed below.

Rice : Good condition, *Third Leaf* stage almost completed.

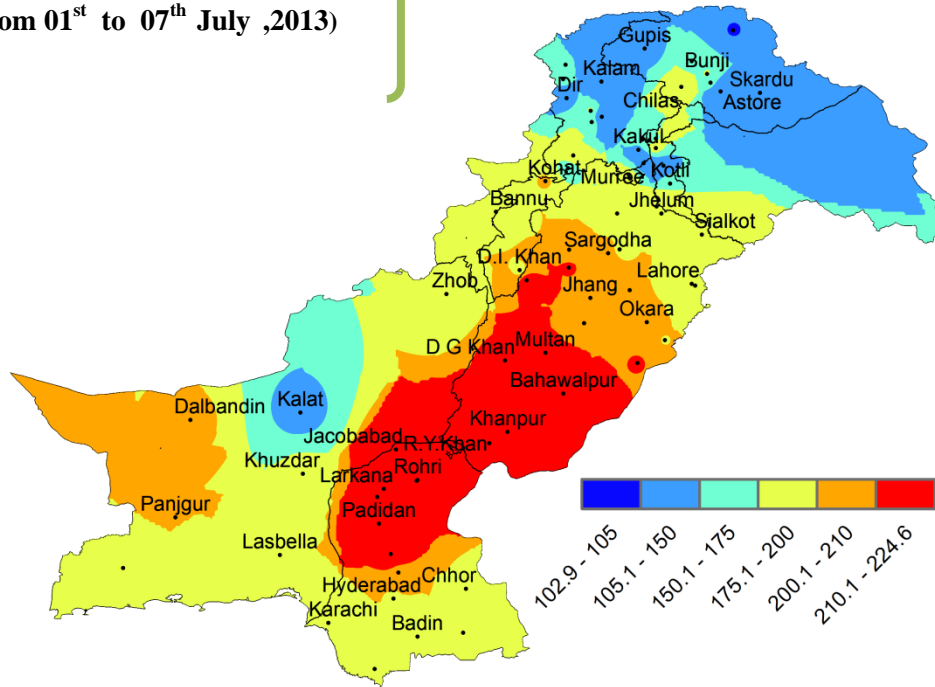
Mean maximum temperature (°C) during the last week (from 01st to 07th July ,2013)



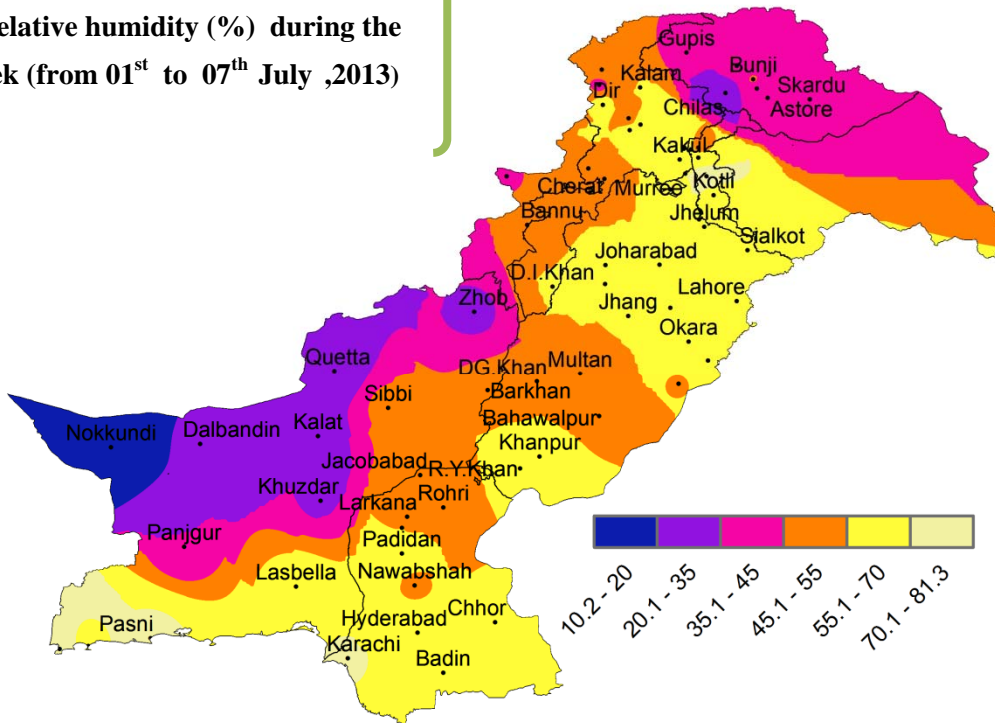
Extreme maximum temperature (°C) during the last week (from 01st to 07th July ,2013)



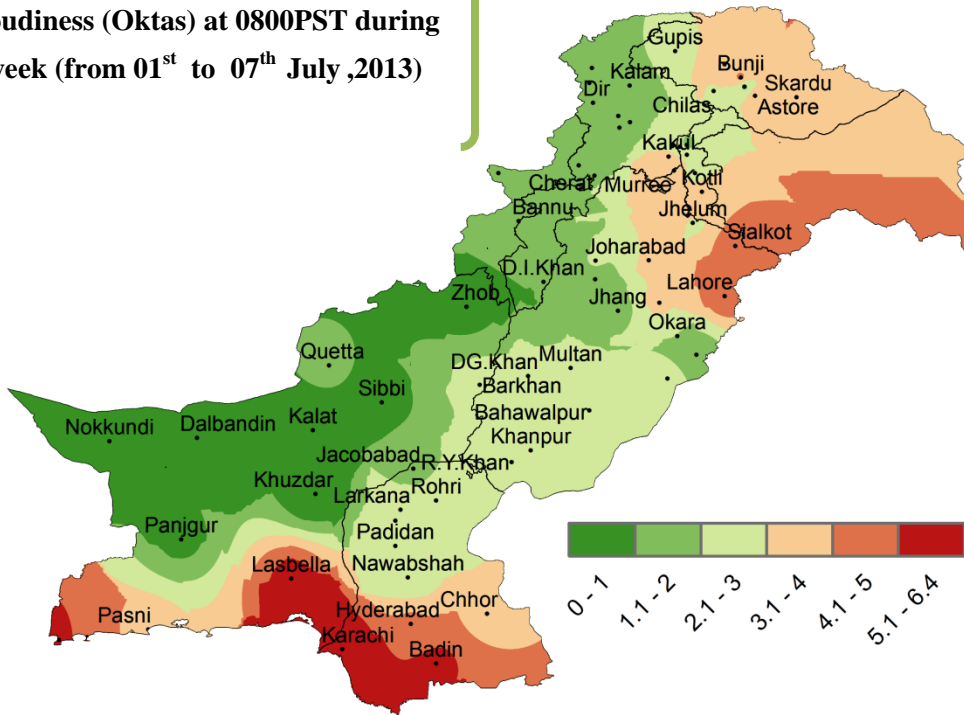
Total growing degree days accumulated during the last week (from 01st to 07th July ,2013)



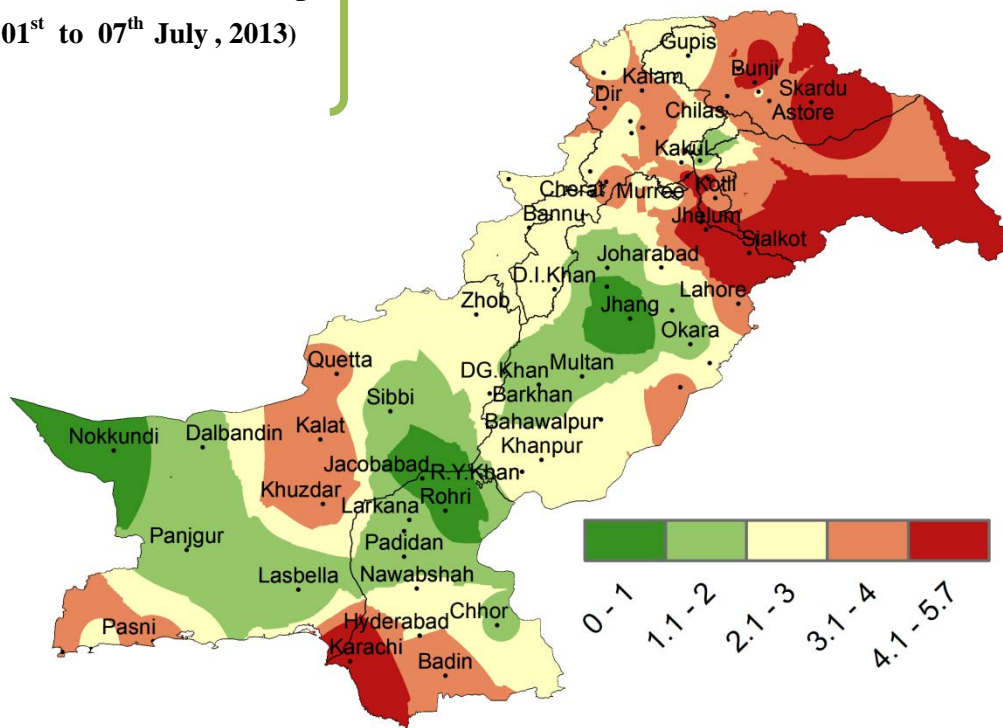
Mean relative humidity (%) during the last week (from 01st to 07th July ,2013)



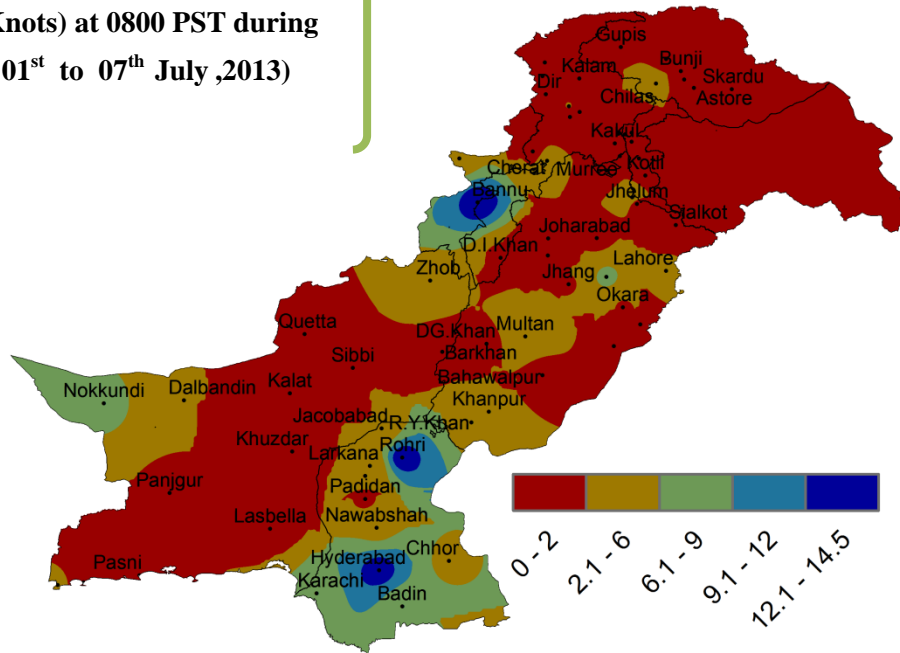
Mean Cloudiness (Oktas) at 0800PST during the last week (from 01st to 07th July ,2013)



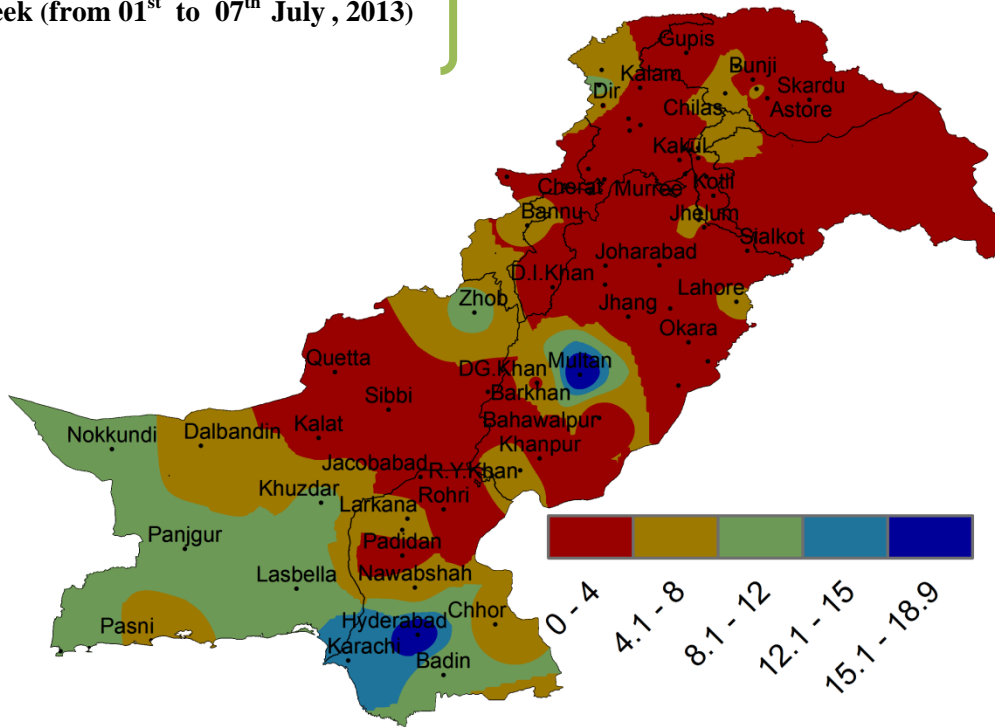
Mean Cloudiness (Oktas) at 1700PST during the last week (from 01st to 07th July , 2013)



Mean wind speed (Knots) at 0800 PST during the last week (from 01st to 07th July, 2013)



Mean wind speed (Knots) at 1700 PST during the last week (from 01st to 07th July, 2013)



Weekly Weather advisory for Farmers (from 08th to 14th June, 2013)

Seasonal low lies over North Balochistan and adjoining areas. Western disturbance is affecting upper parts of the country that would persist till Friday. Monsoonal currents from the Arabian Sea are reaching into upper and eastern parts of country and likely to continue penetrating during the current week.

Punjab including Islamabad:

Rain-thundershower associated with gusty winds is expected at scattered places of upper Punjab from Monday to Thursday. Isolated heavy falls are also expected in upper Punjab on Wednesday & Thursday. Isolated Rain-thundershower is also expected in Northeast Punjab on Friday. Mainly hot and humid weather is expected in most parts of the province during the weekend. Day temperatures are likely to remain below normal during the weekly.

Khyber Pakhtunkhwa:

Rain-thundershower associated with gusty winds is expected at scattered places of upper KP from Monday to Thursday. Isolated heavy falls are also expected in upper KP on Wednesday & Thursday. Isolated Rain-thundershower is also expected in upper KP on Friday. Mainly hot and humid weather is expected in most parts of the province during the weekend. Day temperatures are likely to remain below normal during the week.

Balochistan:

Mainly Hot & Humid weather is expected in most parts of the province during the week. However, rain-thundershower associated with gusty winds is expected at isolated places of Northeastern Balochistan on Wednesday/Thursday

Sindh:

Mainly Hot & Humid weather is expected in most part of the province during the week. However, mostly cloudy weather conditions with chances isolated rain-thundershower associated with gusty winds is expected in southeastern Sindh from Friday to Sunday.

Kashmir:

Rain-thundershower associated with gusty winds is expected at scattered places of Kashmir from Monday to Friday, while at isolated places during the weekend. Day temperatures are likely to remain below normal during the week.

Gilgit-Baltistan:

Rain-thundershower associated with gusty winds is expected at scattered places of GB from Monday to Friday. Mainly Dry/Partly cloudy weather is expected in most parts of the GB during the weekend

Advices for Crops:

Sugarcane & Rice: 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 01st to 07th July, 2013)

Stations	Minimum/Day 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	28.3	32.0	110.9	44	0.1	3.6	4.0	1.1	3.1
Badin	36.3	37.3	187.9	64	0.1	5.3	3.8	6.3	8.3
Bahawalnagar	41.2	42.5	210.9	54	0.0	2.4	3.4	0.9	2.3
Bahawalpur	41.9	43.2	218.2	51	0.0	2.3	3.0	0.6	1.1
Balakot	34.0	35.5	157.7	61	23.1	2.3	3.1	0.0	0.7
Bannu	39.5	41.3	191.0	46	2.0	1.7	2.9	14.4	4.6
Barkhan	35.7	37.0	***	49	20.0	2.4	2.2	0.3	1.7
Bunji	37.4	41.1	177.7	45	0.0	4.3	5.3	1.7	0.9
Cherat	34.2	37.0	157.8	49	0.0	2.0	3.6	2.9	3.4
Chhor	38.0	40.0	194.1	61	8.0	3.6	1.8	5.1	6.0
Chilas	39.8	43.3	198.3	23	0.1	2.9	3.4	3.4	4.9
Chitral	36.5	41.7	152.3	53	0.0	1.1	2.4	0.0	5.7
D.I.Khan	39.8	42.0	195.9	56	12.0	1.0	2.4	0.9	1.1
Dalbandin	43.9	47.0	207.4	21	0.0	0.4	1.8	2.0	6.0
DG.Khan	42.4	44.0	215.7	51	0.2	2.1	1.0	0.9	3.7
Dir	32.0	35.0	138.8	61	20.0	1.3	3.7	0.0	3.9
Drosh	36.5	40.5	153.3	41	6.0	1.9	3.7	0.0	11.0
Faisalabad	39.0	40.0	201.9	59	0.0	3.3	1.7	6.9	3.1
Garidopatta	39.1	40.0	179.8	62	11.0	2.9	1.7	0.3	3.4
Gawader	34.5	35.5	177.3	67	0.0	4.0	2.5	0.0	9.7
Gilgit	37.6	42.0	161.9	43	0.2	3.9	3.9	0.9	4.6

Gupis	31.1	36.0	132.3	38	0.0	2.6	2.0	1.7	1.7
Hyderabad	38.7	41.0	197.6	64	1.0	4.1	3.0	13.7	17.7
Islamabad	37.0	38.7	181.8	56	132.0	3.4	2.2	0.9	1.0
Jacobabad	42.9	44.5	222.8	51	0.1	1.7	0.5	2.0	1.3
Jhang	40.1	41.5	202.4	56	0.0	1.7	0.0	1.7	0.9
Jhelum	38.7	40.5	194.3	58	11.0	2.7	4.1	0.9	3.1
Jiwani	32.9	33.5	***	75	0.0	6.0	4.0	2.9	8.3
Joharabad	39.9	42.0	203.6	59	3.0	2.1	1.4	1.4	2.6
Kakul	32.6	34.0	143.8	63	80.0	3.6	2.9	0.3	2.0
Kalam	28.5	39.0	110.8	55	0.0	1.4	3.3	0.0	2.6
Kalat	33.3	37.0	136.5	30	0.0	0.7	3.8	0.7	3.0
Karachi	34.1	35.0	186.3	71	0.3	6.4	5.7	7.4	12.6
Khanpur	41.1	42.5	213.7	60	0.0	2.3	2.6	2.6	2.6
Khuzdar	38.0	40.0	183.5	33	0.0	0.0	3.3	0.0	8.7
Kotli	35.5	36.7	172.7	64	23.0	3.9	3.6	1.1	2.0
Lahore	37.2	38.5	188.5	66	48.1	4.9	4.0	2.3	4.6
Larkana	42.7	44.5	220.4	51	0.1	2.4	2.0	2.0	5.7
Lasbella	38.6	39.5	196.8	64	2.0	5.4	1.0	0.3	10.0
Lower Dir	37.9	39.5	179.3	44	23.0	1.4	2.1	2.3	2.3
M.B Din	39.0	41.5	195.5	63	43.0	3.1	2.4	0.9	1.7
Malam Jabba	23.9	26.0	104.3	67	109.0	1.9	4.1	0.0	0.0
Mangla	37.9	40.0	189.0	60	38.0	3.4	4.9	4.0	5.7
Mir Khani	35.4	39.5	156.5	44	4.0	1.7	2.4	0.0	5.4
Moinjodaro	42.6	45.0	212.3	55	0.0	2.0	1.3	3.1	4.3
Multan	40.7	42.2	214.8	49	0.0	2.1	1.7	5.4	18.9

Murree	26.8	35.5	120.6	70	34.0	3.9	4.7	0.6	1.7
Muzaffarabad	37.8	40.0	174.3	58	86.0	2.6	2.4	0.0	0.7
Nawabshah	42.6	44.5	215.8	53	0.0	2.3	2.2	4.9	6.7
Nokkundi	42.8	45.0	***	10	0.0	0.0	0.6	7.1	10.0
Noorpurthal	42.3	44.5	211.4	57	0.0	1.3	0.4	1.1	1.7
Okara	39.8	40.5	204.1	62	0.1	2.0	1.4	1.7	1.4
Padidan	40.4	42.0	210.0	62	0.0	2.9	1.7	1.4	2.0
Panjgur	40.7	42.0	200.0	35	0.0	0.7	1.0	0.9	8.9
Parachinar	31.4	35.0	***	44	16.0	2.0	2.7	3.0	3.6
Pasni	34.1	34.5	***	77	0.0	3.6	3.3	0.9	6.7
Pattan	38.4	40.0	174.5	49	42.0	1.6	1.6	0.0	7.4
Peshawar	38.3	41.0	***	52	0.1	1.8	2.1	1.3	3.1
Quetta	35.8	38.0	***	25	0.0	1.1	3.1	0.0	1.4
R.Y.Khan	42.5	43.8	219.0	60	0.1	2.6	2.1	4.9	5.7
Rawalakot	28.7	29.5	123.9	82	48.0	2.4	4.3	0.0	2.6
Rohri	42.8	44.0	225.3	48	0.0	2.4	0.4	14.6	2.3
Sahiwal	40.0	41.5	199.7	58	0.0	1.1	2.3	1.9	1.4
Saidu Sharif	35.0	36.5	164.9	60	35.0	2.0	2.6	0.3	0.9
Sialkot	38.5	41.5	192.5	63	93.1	4.9	4.3	1.4	1.4
Sibbi	44.5	46.5	***	50	0.0	0.6	1.0	0.0	0.0
Skardu	32.9	36.6	133.0	39	0.0	4.0	4.6	0.9	2.0
Zhob	38.0	40.0	180.0	32	0.0	0.4	2.8	5.0	9.0

*** Data not available