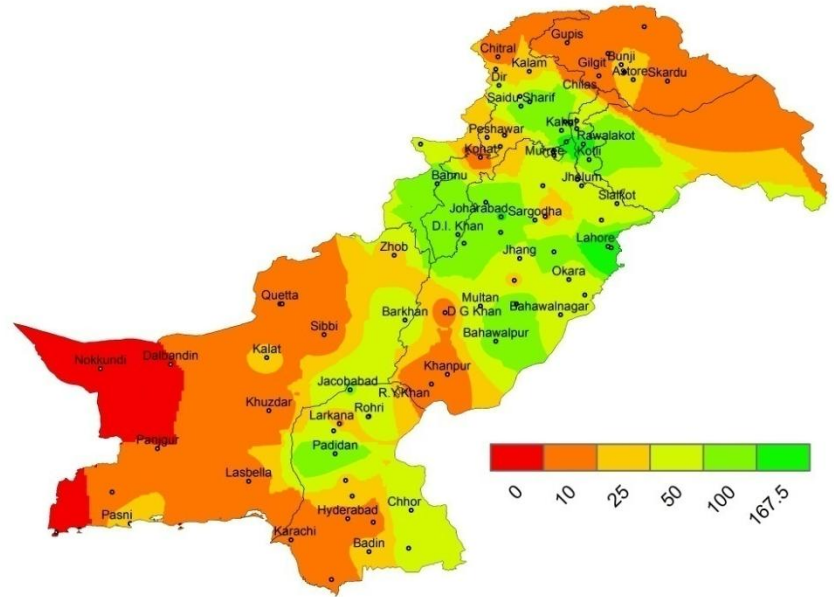


Weekly Weather and Crop Bulletin for Pakistan

**NATIONAL AGROMET
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**Rainfall distribution (mm) during the
Last week (from 10th to 16th June, 2013)**

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Highlights of Past Weather (10th to 16th June, 2013)

Light to moderate rainfall reported in most parts of the country except Balochistan Province where it occurred at few places. Also the day temperatures are dropped to few degrees in most parts of the country due to recent rain spell.

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 places of the province during the week. Weekly maximum temperature and minimum temperature recorded as 37.0 °C & 25.3°C respectively. For the present season on average 177.9 growing degree days accumulated by the end of last week. Average relative humidity recorded as 62 % and wind speed in the morning/evening recorded as 3.1/4.2 Knots. During the previous week highest amount of rainfall reported at Murree as 169.0 mm and extreme maximum temperature recorded as 48.5 °C at the Bhakkar.

Sindh

Light to moderate rainfall reported from most of the places of the province during the week. Weekly maximum temperature and minimum temperature recorded as 39.8 °C & 28.4°C respectively. For the present season on average 199.4 growing degree days accumulated by the end of last week. Average relative humidity recorded as 59% and wind speed in the morning/evening recorded as 3.7/5.9 Knots. During the previous week highest amount of rainfall reported at Padidan as 96.1 mm and Extreme maximum temperature recorded as 47.2°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 33.7°C & 20.3°C respectively. For the present season on average 155.2 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 1.8/3.4 Knots. During the previous week the highest rainfall recorded at D.I.Khan as 86.1 mm and extreme

maximum temperature recorded as 47.6 °C at Bannu.

Balochistan

Light to moderate rainfall reported from few places during the week. Weekly maximum temperature and minimum temperature recorded as 38.1°C & 24.1 °C respectively. For the present season on average 174.5 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 2.3/6.6 Knots. During the previous week highest amount of rainfall reported at Barkhan as 39.0 mm Extreme maximum temperature recorded as 46.8 °C at Dalbandin.

Gilgit Baltistan and Azad Jammu & Kashmir

Light to moderate rainfall reported from most of the agricultural plains of the region during the week. Weekly maximum temperature and minimum temperature recorded as 32.8°C & 18.5°C respectively. For the present season on average 145.1 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 1.3/3.2 Knots. During the previous week the highest rainfall recorded at Rawalakot as 122.0 mm and extreme maximum temperature recorded as 44.5°C at Pattan.

Past Weather for Major Agricultural Plains (from 10th to 16th June, 2013)

Rawalpindi (Potohar region)

Rainfall reported as 34.0 mm during the week however cloudiness in the morning/evening 3.0/3.2 Oktas while average relative humidity observed as 54 %. Mean day time temperature recorded as 37.0 °C & for the present season 177.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.8/2.1 Km/h.

Faisalabad (Central Punjab)

Rainfall reported as 24.2 mm during the week however cloudiness in the morning/evening as 3.4/3.7 Oktas while average relative humidity observed as 57%. Mean day time temperature recorded as 37.0 °C & for the present season 185.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 4.0/3.6 Km/h.

Tandojam (Lower Sindh)

No rainfall reported during the week, however cloudiness in the morning/evening as 2.7/2.7 Oktas while average relative humidity observed as 52%. Mean day time temperature recorded as 38.4 °C & for the present season 196.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.7/3.0 Km/h.

Quetta (Northern Balochistan)

No rainfall reported during the week however cloudiness in the morning/evening as 1.3/1.1 Oktas while average relative humidity observed as 34%. Mean day time temperature observed as 34.9°C & for the present season 160.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 5.7/7.6 Km/h.

Usta Muhammad (Eastern Balochistan)

Rainfall reported as 40.0 mm during the week, however cloudiness in the morning/evening as

2.1/2.8 Oktas while average relative humidity observed as 54%. Mean day time temperature recorded as 41.3°C & for the present season 210.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.7/6.9 Km/h.

Past Weather for sub regional Agri-cultural Plains (from 10th to 16th June, 2013)

Rohri

Rainfall reported as 24.2 mm during the week however cloudiness in the morning/evening as 3.4/3.6 Oktas while average relative humidity observed as 55 %. Mean day temperature recorded as 44.5°C C & for the present season 212.3 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 2.9/2.4 Knots.

Multan

Rainfall reported as 74.0 mm during the week however cloudiness in the morning/evening as 3.9/3.0 Oktas while average relative humidity observed as 58 %. Mean day temperature recorded as 43.6°C & for the present season 194.1 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 8.3/8.9 Knots.

Lahore

Rainfall reported as 143.0 mm during the week however cloudiness in the morning/evening as 5.1/4.6 Oktas while average relative humidity observed as 67%. Mean day time temperature recorded as 45.0°C & for the present season 175.0 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 3.7/4.6 Knots.

Zhob

Rainfall reported as 20.0 mm during the week however cloudiness in the morning/evening as 3.6/4.8 Oktas while average relative humidity observed as 45%. Mean day temperature recorded as 40.0°C C & for the present season 178.6

growing degree days accumulated by the end of last week. . Wind recorded in the morning/evening as 5.0/7.0 Knots.

D.I. Khan

Rainfall reported as 87.1 mm during the week however cloudiness in the morning/evening as 3.0/3.7 Oktas while average relative humidity observed as 61%. Mean day temperature 46.0 C C & for the present season 181.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 13.9/1.1 Knots.

Peshawar

Rainfall reported as 14.0 mm during the week however cloudiness in the morning/evening as 3.0/3.8 Oktas while average relative humidity observed as 57%. Mean day temperature recorded as 42.0°C & for the present season 189.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.8/2.0 Knots.

Murree

Rainfall reported as 169.0 mm during the week however cloudiness in the morning/evening as 2.6/5.3 Oktas while average relative humidity observed as 72%. Mean day temperature recorded as 30.8°C & for the present season 102.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/1.7 Knots.

Kalam

Rainfall reported as 16.0 mm during the week however cloudiness in the morning/evening as 2.4/4.6 Oktas while average relative humidity observed as 59%. Mean day temperature recorded as 32.0°C & for the present season 99.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/1.7 Knots.

Gilgit

Rainfall reported as 6.4 mm during the week, however cloudiness in the morning/evening as

3.9/4.4 Oktas while average relative humidity observed as 43%. Mean day temperature recorded as 41.5°C & for the present season 153.6 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening 0.0/6.3 Knots.

Skardu

Rainfall reported as 1.1 mm during the week however cloudiness in the morning/evening as 4.0/4.9 Oktas while average relative humidity observed as 38%. Mean day temperature recorded as 36.2 °C & for the present season 118.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.6/5.3 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: Good condition at *Tillering* completed .

Cotton: Good condition , *flowering* stage.

Lower Sindh (Tandojam)

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

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

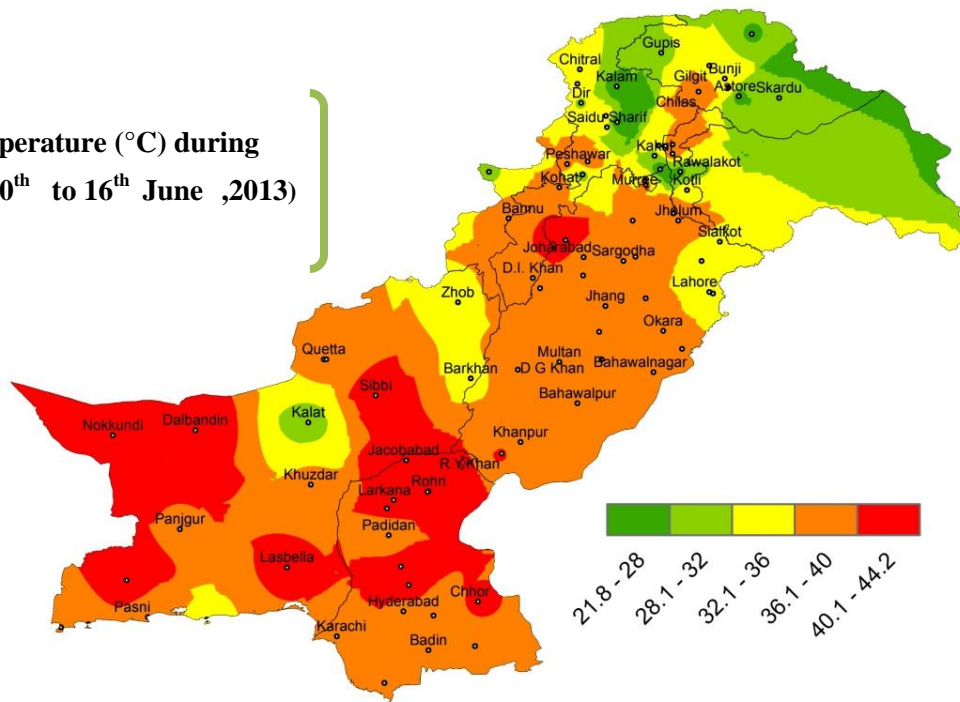
Northern Balochistan (Quetta)

There is presently no crop in the fields.

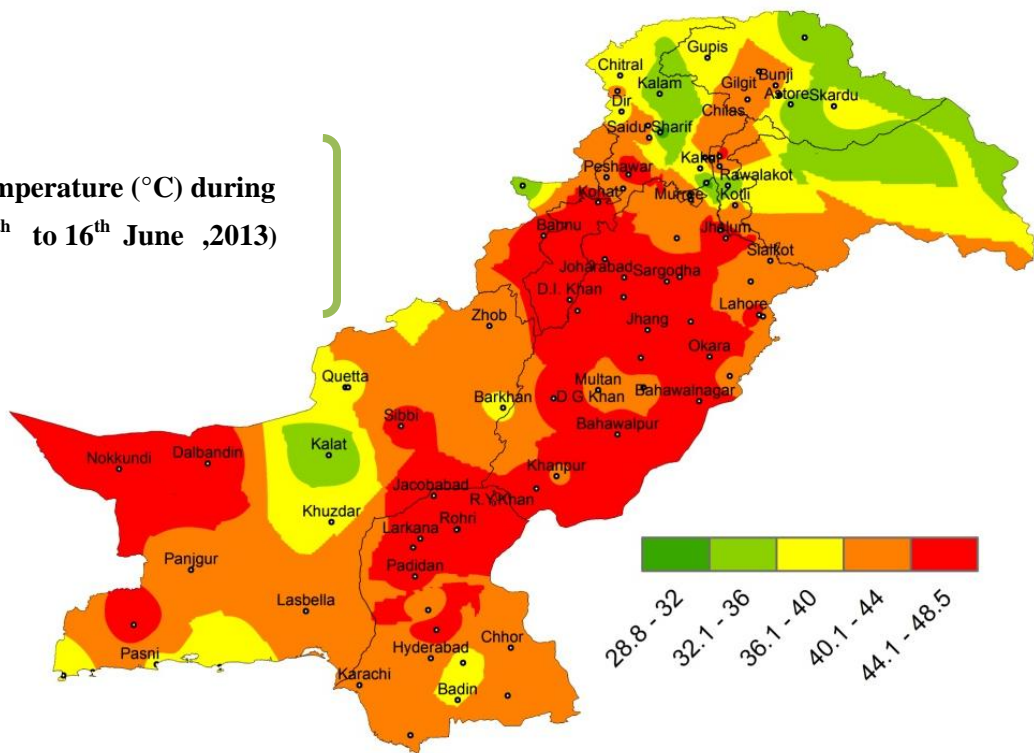
Eastern Balochistan (Usta Muhammad)

Rice : Good condition , at *germination* stage.

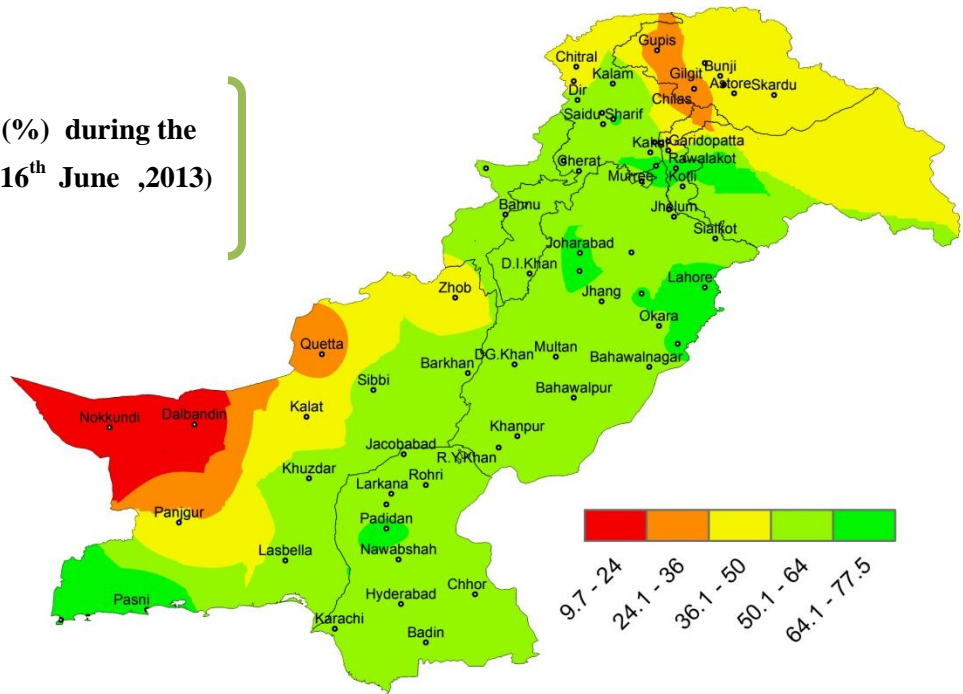
Mean maximum temperature (°C) during the last week (from 10th to 16th June ,2013)



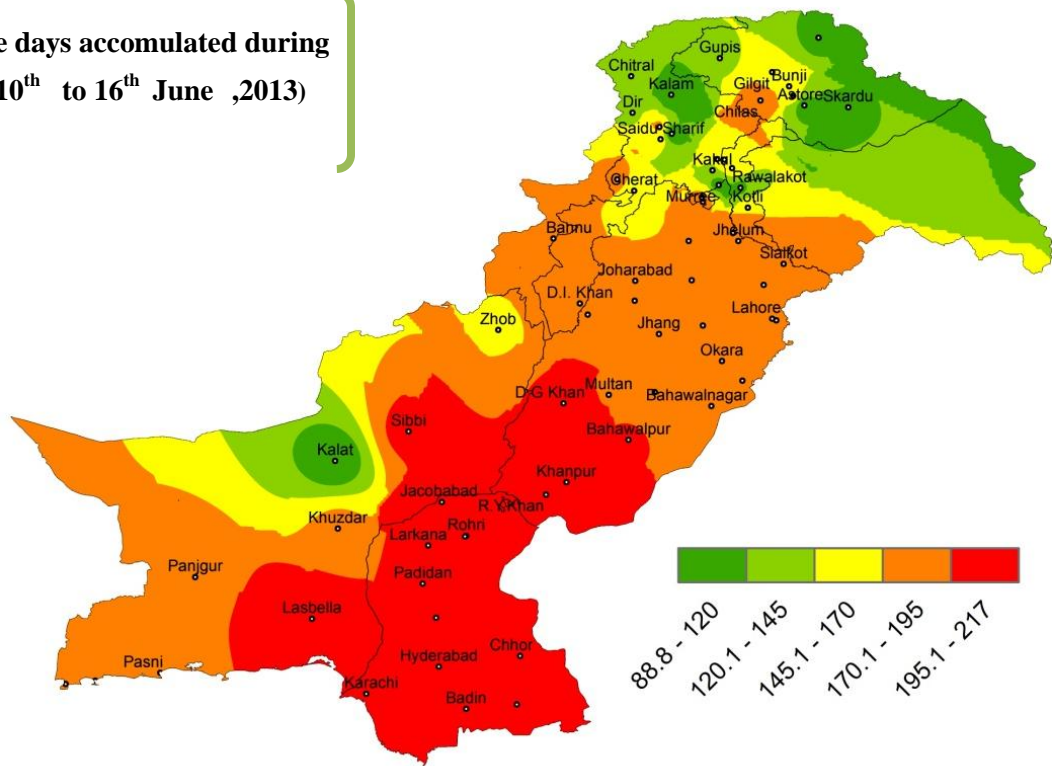
Extreme maximum temperature (°C) during the last week (from 10th to 16th June ,2013)



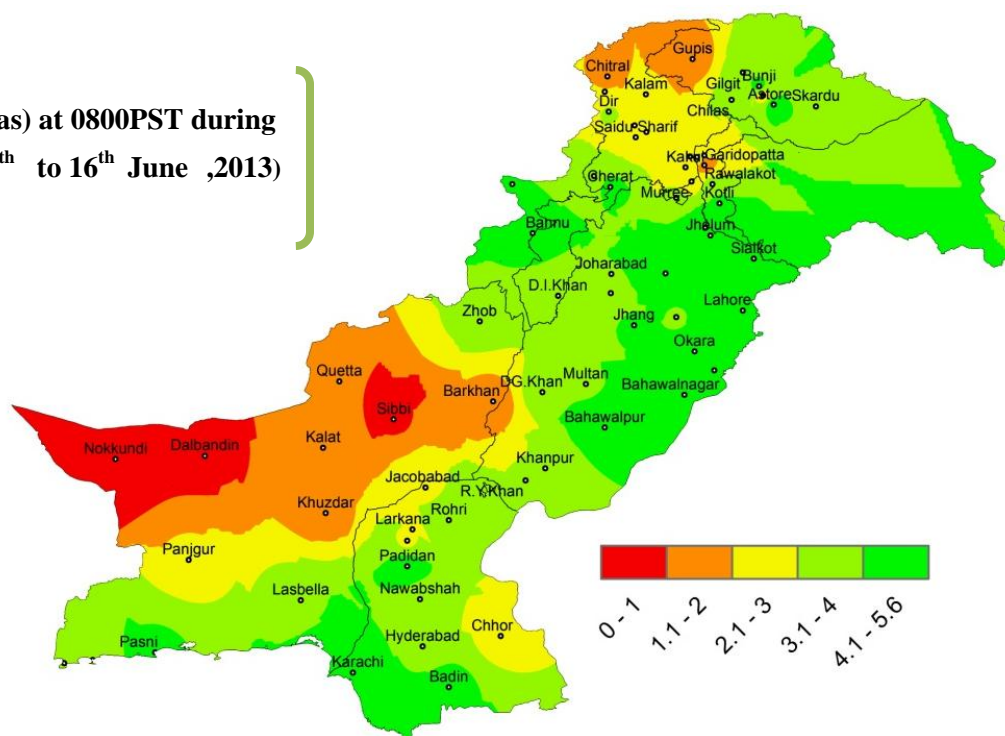
Mean relative humidity (%) during the last week (from 10th to 16th June ,2013)



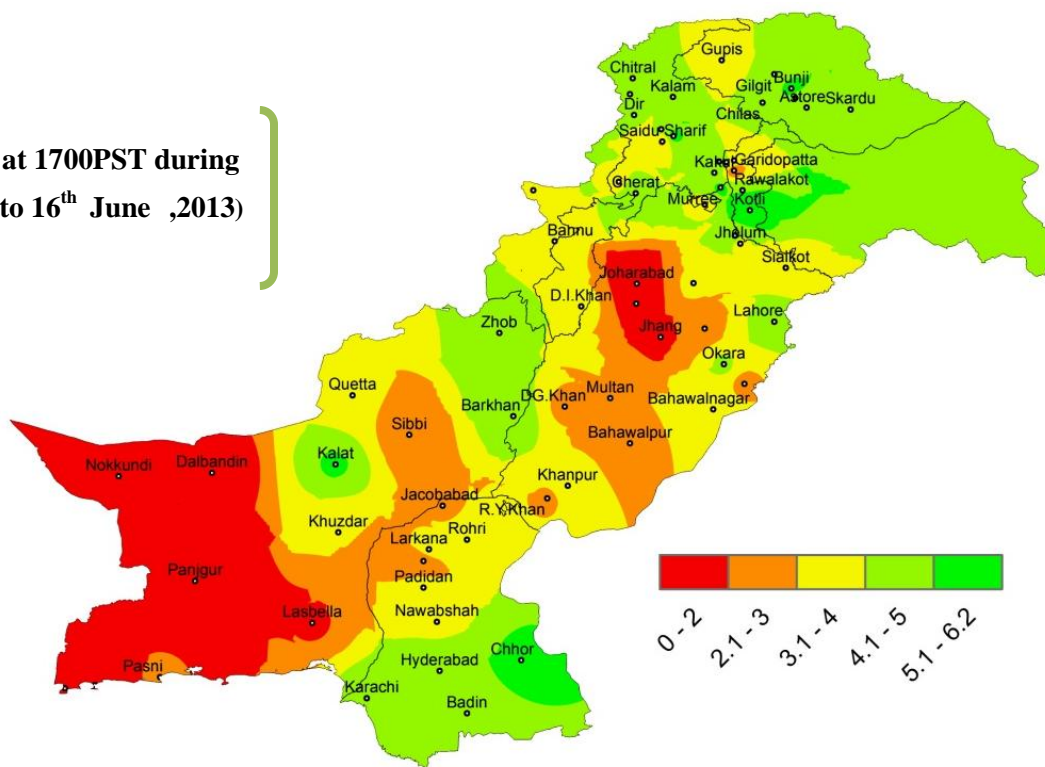
Total growing degree days accomulated during the last week (from 10th to 16th June ,2013)



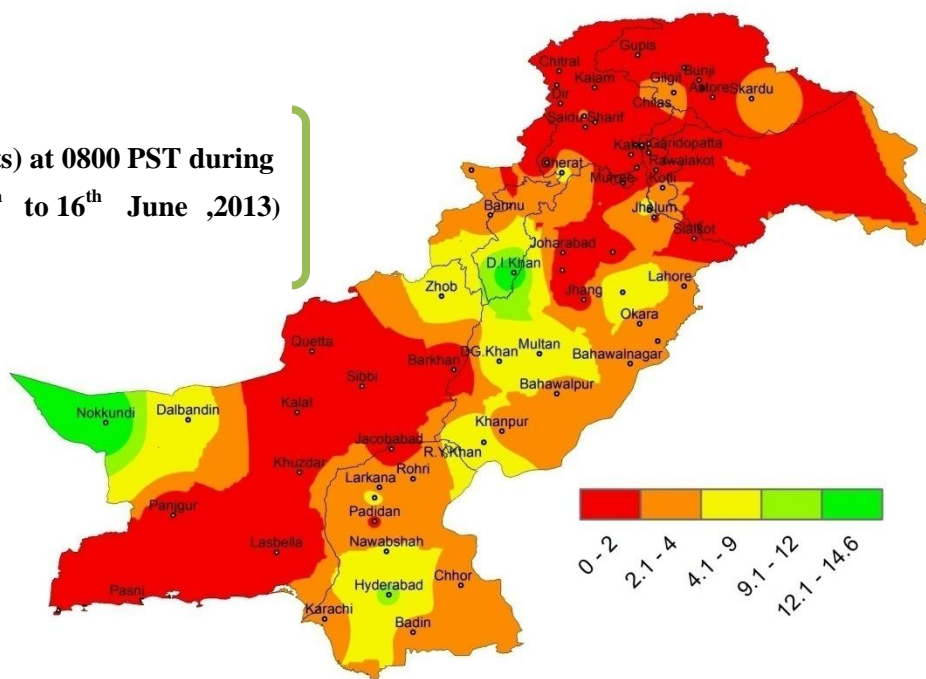
Mean Cloudiness (Oktas) at 0800PST during the last week (from 10th to 16th June ,2013)



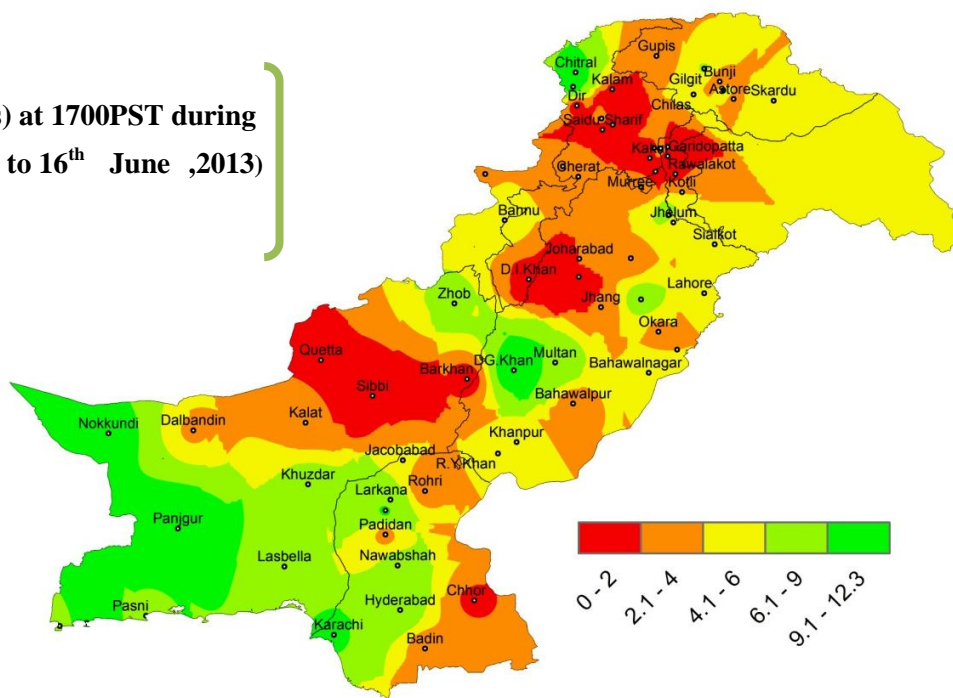
Mean Cloudiness (Oktas) at 1700PST during the last week (from 10th to 16th June ,2013)



Mean wind speed (Knots) at 0800 PST during the last week (from 10th to 16th June ,2013)



Mean wind speed (Knots) at 1700 PST during the last week (from 10th to 16th June ,2013)



Weekly Weather advisory for Farmers (from 17th to 23rd June , 2013)

Seasonal low lies over Balochistan and adjoining areas. Presently a westerly wave is prevailing over upper parts of the country and likely to move northeastward in next 24 hours. Continental air would prevail over most parts of the country during rest of the days of the week.

Punjab including Islamabad:

Hot & Dry weather is expected in most parts of the province during the week. However, rain-thunderstorm associated gusty winds is likely at isolated places of upper & southeastern Punjab till tonight. Isolated rain-thunderstorm also may occur in southeastern parts of the provinces during the weekend.

First pre-monsoon weather system is expected to end from tonight. Day temperature is likely to rise in most parts of province from Wednesday.

Khyber Pakhtunkhwa:

Hot & Dry weather is expected in most parts of the province during the week. However, Rain-thunderstorm associated gusty winds is likely at isolated places of upper KP till today evening/night.

First pre-monsoon weather system is expected to end from tonight. Day temperatures are expected to rise in plain areas of province from Wednesday.

Balochistan:

Hot & dry weather is expected in most part of the province during the week. Day temperatures are expected to rise during from Wednesday.

Sindh:

Hot to very hot & humid weather is expected in most parts of the province during the current week. However, isolated rain dust-thunderstorm

with gusty winds is expected in southeastern Sindh during Monday/Tuesday (morning) and again between Thursday-Saturday. Day temperatures are expected to rise in most parts of province from Wednesday.

Kashmir:

Mainly hot & dry weather expected in most parts of Kashmir during the week. However, rain-thunderstorm with gusty wind expected till Tuesday and again on the weekend. First pre-monsoon weather system is expected to end from tonight/Tuesday. Day temperatures are expected to rise in most parts of province from Wednesday.

Gilgit-Baltistan:

Mainly dry weather expected in most parts of GB during the week. However, light rain-thunderstorm is expected at isolated places of GB till tonight. Day temperatures are expected to be 5-70C below normal up till Thursday.

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 10th to 16th June, 2013)

Stations	Maximum/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	Heighst							
Astore	25.9	32.4	96.1	45	10.3	4.7	4.9	1.1	3.7
Badin	38.6	40.0	196.5	60	17.0	4.6	4.6	2.9	2.8
Bahawalnagar	36.9	45.0	189.1	61	34.1	4.6	3.9	3.7	5.1
Bahawalpur	37.7	44.5	193.7	62	56.1	4.9	2.6	2.6	2.6
Balakot	33.4	39.5	156.9	56	59.0	2.1	4.3	0.0	1.3
Bannu	38.0	47.6	182.0	56	76.0	4.7	3.4	2.3	5.4
Barkhan	34.8	39.5	173.3	56	40.0	1.1	5.0	0.0	0.7
Bunji	34.9	41.1	161.4	47	12.0	4.6	5.3	0.9	2.0
Cherat	30.7	42.0	147.5	61	22.0	4.4	4.7	4.6	3.4
Chhor	40.6	42.0	205.9	60	49.0	2.4	5.2	2.0	1.6
Chilas	37.7	42.8	188.3	26	1.0	3.3	4.4	3.1	4.3
Chitral	33.9	38.7	143.4	47	4.0	1.7	4.9	0.9	10.0
DG.Khan	39.1	45.5	204.8	52	1.1	3.7	2.7	5.7	11.9
D.I.Khan	37.9	46.0	181.3	61	87.1	3.0	3.7	13.9	1.1
Dalbandin	44.2	46.8	209.3	17	0.0	0.7	0.5	4.9	3.7
Dir	31.6	39.0	136.3	63	29.0	3.1	4.1	0.0	0.9
Drosh	35.2	40.5	157.3	39	13.0	2.0	5.0	0.0	10.4
Faisalabad	36.5	44.0	185.1	64	75.0	3.9	2.3	7.4	7.7
Garidopatta	36.9	43.0	167.3	52	54.0	1.4	2.3	0.0	0.9
Gawader	37.7	40.0	190.0	65	0.0	3.9	1.6	0.0	12.0
Gilgit	35.3	41.5	153.6	43	6.4	3.9	4.4	0.0	6.3

Gupis	31.0	37.0	134.3	33	0.0	1.0	3.1	2.0	2.3
Hyderabad	39.0	41.0	199.4	56	0.0	3.4	4.8	9.7	8.3
Islamabad	36.0	43.1	174.5	61	35.1	3.3	3.6	0.6	2.6
Jacobabad	41.9	44.5	217.0	54	52.1	2.9	2.7	0.9	4.0
Jhang	37.2	44.2	184.0	62	43.1	4.1	1.9	1.7	2.0
Jhelum	37.7	44.8	190.8	55	41.2	4.9	3.4	1.4	4.3
Jiwani	36.1	38.0		68	0.0	3.4	0.0	0.9	7.1
Joharabad	37.0	45.5	182.3	64	106.0	4.0	1.1	1.7	2.0
Kakul	30.6	37.0	133.3	62	58.0	2.4	4.3	0.0	1.4
Kalam	25.9	32.0	99.7	58	16.0	2.4	4.6	0.0	1.7
Kalat	30.3	32.0	93.3	44	12.0	1.4	5.2	0.0	2.7
Karachi	38.7	40.6	206.2	63	0.1	5.4	4.7	2.6	9.3
Khanpur	38.6	43.8	202.9	62	2.0	3.1	3.4	2.3	4.6
Khuzdar	36.9	40.0	181.5	54	2.0	1.6	3.0	1.7	6.9
Kotli	34.6	40.6	169.5	60	76.0	4.3	6.3	2.6	4.0
Lahore	35.6	45.0	175.0	69	143.1	5.1	4.6	3.7	4.6
Larkana	40.8	44.0	204.4	61	6.0	3.0	3.6	3.4	7.6
Lasbella	41.2	42.5	209.8	50	4.0	3.7	1.8	0.9	7.7
Lower Dir	36.7	44.0	180.3	50	22.0	3.0	4.3	2.6	2.6
Malam Jabba	21.6	28.5	87.2	67	84.0	2.7	5.6	0.0	0.6
Mandibahudin	38.2	45.2	191.1	57	4.2	5.6	3.3	1.1	2.3
Mangla	37.5	44.3	187.8	57	22.4	4.7	4.9	5.4	7.7
Mir Khani	35.8	39.8	160.7	37	14.0	2.0	4.7	0.9	5.1
Moinjodaro	40.1	44.0	194.0	54	36.1	2.7	2.2	4.6	9.6
Multan	37.9	43.6	194.1	58	47.0	3.9	3.0	8.3	8.9

Murree	24.4	30.8	102.7	72	169.0	2.6	5.3	0.9	1.7
Muzaffarabad	36.3	43.4	170.2	58	68.0	3.3	4.3	0.0	3.9
Nokkundi	42.9	45.5	174.5	10	0.0	0.0	0.0	14.6	10.3
Noorpurthal	38.5	47.0	191.2	65	60.0	3.4	1.7	1.1	2.0
Okara	37.2	44.3	188.2	64	27.2	4.7	4.3	2.9	3.4
Padidan	39.1	44.5	197.8	70	96.1	5.0	3.3	1.7	3.0
Panjgur	39.2	42.5	198.0	36	0.0	2.3	0.9	0.9	12.3
Parachinar	31.4	33.2	***	59	29.0	4.0	4.0	2.3	3.8
Pasni	36.4	39.5	181.3	76	22.0	4.3	2.2	0.9	8.0
Pattan	37.4	44.5	165.3	33	28.0	2.0	3.3	0.0	1.0
Peshawar	36.6	42.0	189.2	57	14.1	3.0	3.8	0.8	2.0
Quetta	37.8	40.0	154.8	30	0.0	1.0	3.2	0.8	2.0
R.Y.Khan	40.1	45.2	208.6	59	0.1	3.1	2.9	7.1	4.9
Rawalakot	26.9	32.3	111.5	78	122.0	3.6	5.0	0.3	1.4
Rohri	40.6	44.5	212.3	55	29.0	3.4	3.6	2.9	2.4
Sahiwal	36.7	43.6	182.8	65	31.0	4.7	2.6	3.4	4.0
Saidu Sharif	33.3	41.3	157.0	61	70.0	2.3	2.7	0.0	1.1
Sialkot	35.9	43.3	179.1	60	25.1	4.0	3.4	0.9	4.0
Sibbi	42.4	45.0	206.5	56	0.2	0.9	2.0	0.0	0.0
Skardu	28.4	36.2	118.9	38	1.1	4.0	4.9	2.6	5.3
Zhob	34.8	40.0	178.6	45	20.0	3.6	4.8	5.0	7.0

*** Data not available