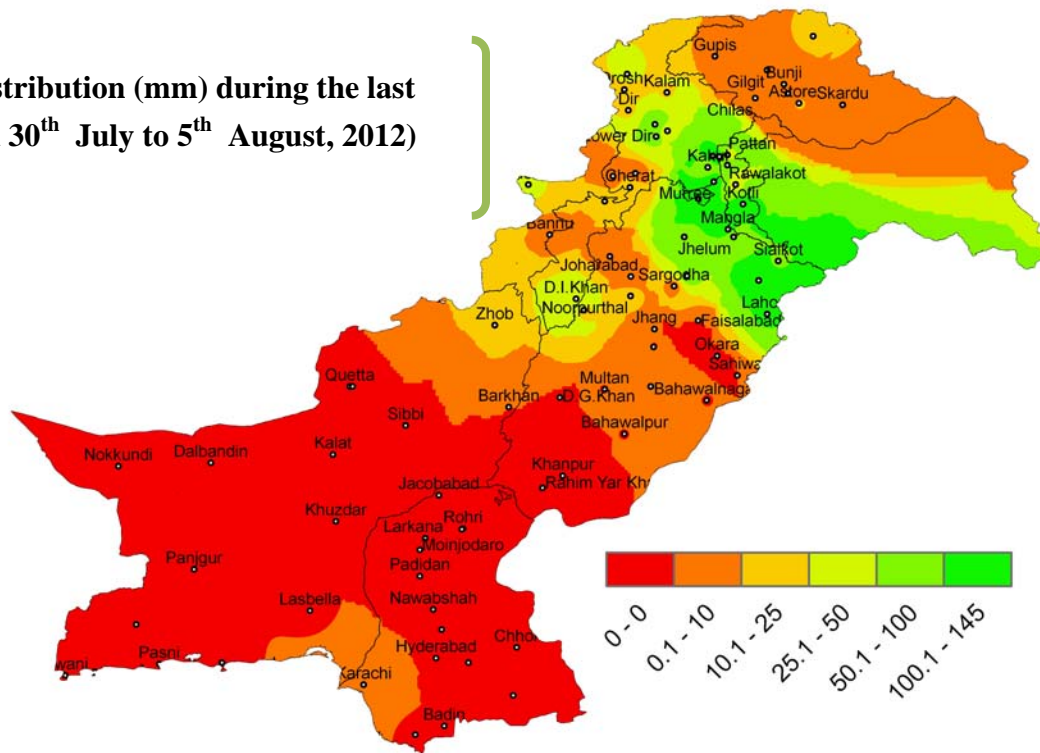


Weekly Weather and Crop Bulletin for Pakistan

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Rainfall distribution (mm) during the last week (from 30th July to 5th August, 2012)



Highlights of past weather (30th July to 5th August, 2012):

Monsoon rains of this season continued with mainly in upper half of the country. Due to which light to moderate rainfall reported from most of the agricultural plains of upper & central parts of Punjab, Khyber Pakhtoonkhwa, Gilgit Baltistan & Kashmir and few places in northern Balochistan during the week. Whereas dry weather rainfall reported from Sindh and rest of the agricultural plains of Balochistan.

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Punjab

Light to moderate rainfall reported from most of the agricultural plains of Punjab except isolated places in central/southern regions during the decade, chief amount reported from the eastern-northern parts of the province. Weekly maximum temperature and minimum temperature recorded as 36.5°C & 27.3°C respectively. For the present season on average 184.9 growing degree days accumulated by the end of last week. Average relative humidity recorded as 63% and wind speed in the morning/evening recorded as 3.9/5.4 Knots. During the previous week the highest rainfall recorded at Murree as 135 mm and the extreme maximum temperature recorded at Noorpurthal as 43.7°C.

Sindh

Dry weather reported from most of the places except Karachi where rainfall occurred in meager amount. Weekly maximum temperature and minimum temperature recorded as 37.3°C & 27.1°C respectively. For the present season on average 190.4 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 7.2/9.3 Knots. During the previous week rainfall occurred only at Karachi as 0.1 mm and extreme maximum temperature recorded at Moinjo Daro as 44.0°C.

Khyber Pakhtoon Khawa (KP)

Light rainfall reported from most of the agricultural plains of KP during the week. Weekly maximum temperature and minimum temperature recorded as 34.4°C & 22.4°C respectively. For the present season on average 169.1 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 1.3/4.7 Knots. During the previous week the highest rainfall recorded at Balakot as 122 mm and the extreme maximum temperature recorded at Risalpur as 42°C.

Balochistan

Light rainfall reported from few of the agricultural plains in the northern parts of the province. Weekly maximum temperature and minimum temperature recorded as 36.6°C & 23.1°C respectively. For the present season on average 174.9 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 3.0/7.3 Knots. During the previous week the highest rainfall recorded at Zhob as 12 mm and the extreme maximum temperature recorded at Turbat as 45.5°C.

Gilgit Baltistan and Azad Jammu & Kashmir

Light to moderate rainfall reported from most of the agricultural plains of the specified region especially from Kashmir. Weekly maximum temperature and minimum temperature recorded as 32.7°C & 21.1°C respectively. For the present season on average 151.5 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 0.6/3.3 Knots. During the previous week the highest rainfall recorded at Muzaffarabad as 148.1 mm and the extreme maximum temperature recorded at Chillas as 42.7°C.

Past Weather for Major Agricultural Plains (30th July to 5th August, 2012)

Rawalpindi (Potohar region)

Rainfall reported as 80.3 mm during the last week, cloudiness recorded in the morning/evening as 5.9/5.8 oktas and average relative humidity 70%. Mean day temperature recorded as 35.0°C & for the present season 177.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.4/1.7 Km/h.

Tandojam (Lower Sindh)

No rainfall reported during the last week, cloudiness recorded in the morning/evening as 2.3/2.1 oktas and average relative humidity 62%. Mean day temperature recorded as 35.3°C & for the present season 180.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 15.1/13.4 Km/h.

Faisalabad (Central Punjab)

Rainfall reported as trace (indeterminate amount) during the last week, cloudiness recorded in the morning/evening as 2.0/3.1 oktas and average relative humidity 64%. Mean day temperature recorded as 37.6°C & for the present season 196.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.7/3.7 Km/h.

Quetta (Northern Balochistan)

Rainfall reported as 22.5 mm during the last week, cloudiness recorded in the morning/evening as 1.6/2.0 oktas and average relative humidity 24%. Mean day temperature recorded as 34.1°C & for the present season 144.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.1/8.1 Km/h.

Usta Muhammad (Eastern Balochistan)

No Rainfall reported during the last week, cloudiness recorded in the morning/evening as 1.4/0.0 oktas and average relative humidity 56%. Mean day temperature recorded as 40.9°C & for

the present season 203.5 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 Agricultural Plains (30th July to 5th August, 2012)

Rohri

No rainfall reported during the last week, cloudiness recorded in the morning/evening as 2.5/1.6 oktas and average relative humidity 53%. Mean day temperature recorded as 40.4°C & for the present season 201.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.7/3.0 Knots.

Muzafarabad

Rainfall reported as 148.1 mm during the last week, cloudiness recorded in the morning/evening as 6.4/4.3 oktas and average relative humidity 75%. Mean day temperature recorded as 34.3°C & for the present season 169.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.5 Knots.

Multan

No rainfall reported during the last week, cloudiness recorded in the morning/evening as 2.8/3.0 oktas and average relative humidity 58%. Mean day temperature recorded as 37.5°C & for the present season 196.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 9.6/8.7 Knots.

Lahore

Rainfall reported as 110.0 mm during the last week, cloudiness recorded in the morning/evening as 2.3/4.6 oktas and average relative humidity 62%. Mean day temperature recorded as 36.2°C & for the present season 185.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.7/6.0 Knots.

Sargodha

Rainfall reported as 0.1 mm during the last week, cloudiness recorded in the morning/evening as

4.3/2.4 oktas and average relative humidity 45%. Mean day temperature recorded as 38.3°C & for the present season 169.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 8.5/12.3 Knots.

Gilgit.

Rainfall reported as 6.0 mm during the last week, cloudiness recorded in the morning/evening as 3.8/5.8 oktas and average relative humidity 55%. Mean day temperature recorded as 35.1°C & for the present season 156.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/2.8 Knots.

Jhelum

Rainfall reported as 73.0 mm during the last week, cloudiness recorded in the morning/evening as 6.2/5.3 oktas and average relative humidity 65%. Mean day temperature recorded as 34.9°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 1.2/3.5 Knots.

D.I. Khan

Rainfall reported as 49.0 mm during the last week, cloudiness recorded in the morning/evening as 2.6/4.0 oktas and average relative humidity 63%. Mean day temperature recorded as 38.2°C & for the present season 191.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/2.0 Knots.

Peshawar

Rainfall reported as 1.0 mm during the last week, cloudiness recorded in the morning/evening as 4.0/3.0 oktas and average relative humidity 65%. Mean day temperature recorded as 36.8°C & for the present season 195.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 6.8/16.0 Knots.

Murree

Rainfall reported as 5.0 mm during the last week, cloudiness recorded in the morning/evening as 3.9/3.0 oktas and average relative humidity 72%. Mean day temperature recorded as 25.7°C & for the present

season 116.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.4/0.7 Knots.

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

Potohar Region (Rawalpindi)

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

Maize: Emergence started.

Central Punjab (Faisalabad)

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

Sugarcane: Very Good condition, Tillering stage completed.

Cotton: Very Good condition at Flowering stage.

Lower Sindh (Tandojam)

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

Cotton (BT-886): Good condition at Boll Opening stage.

Northern Balochistan (Quetta)

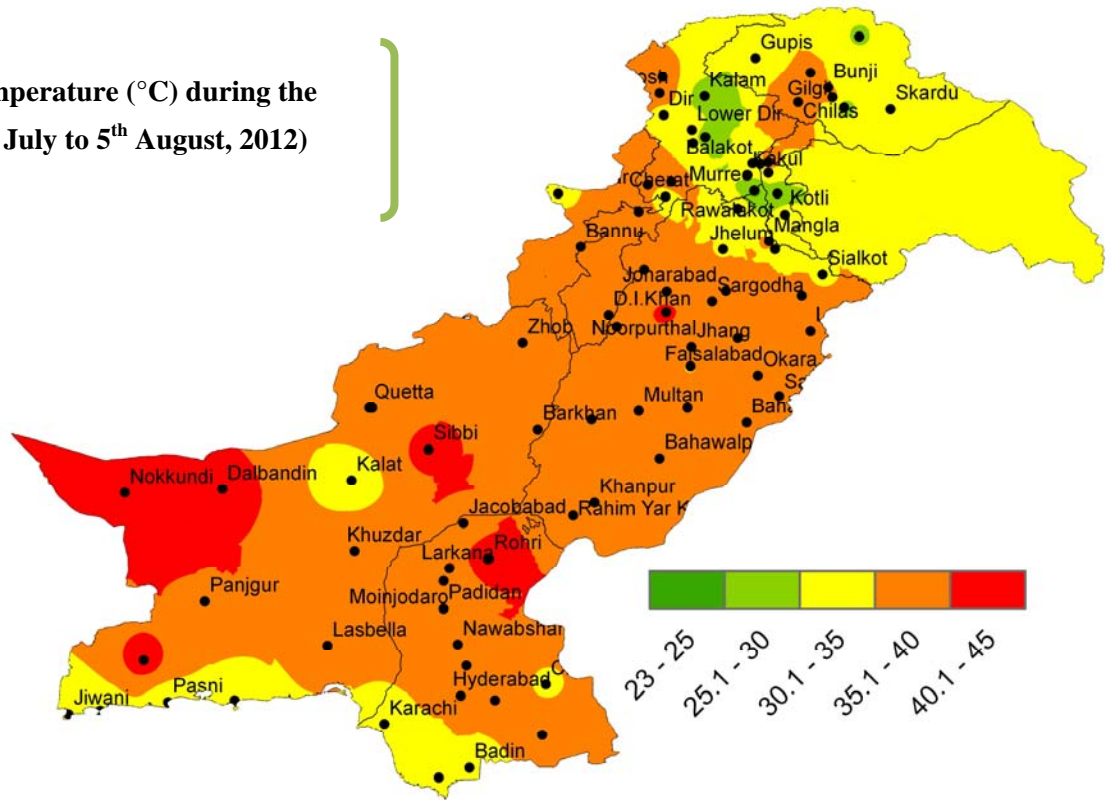
Presently no crop is grown in the fields.

Eastern Balochistan (Usta Muhammad)

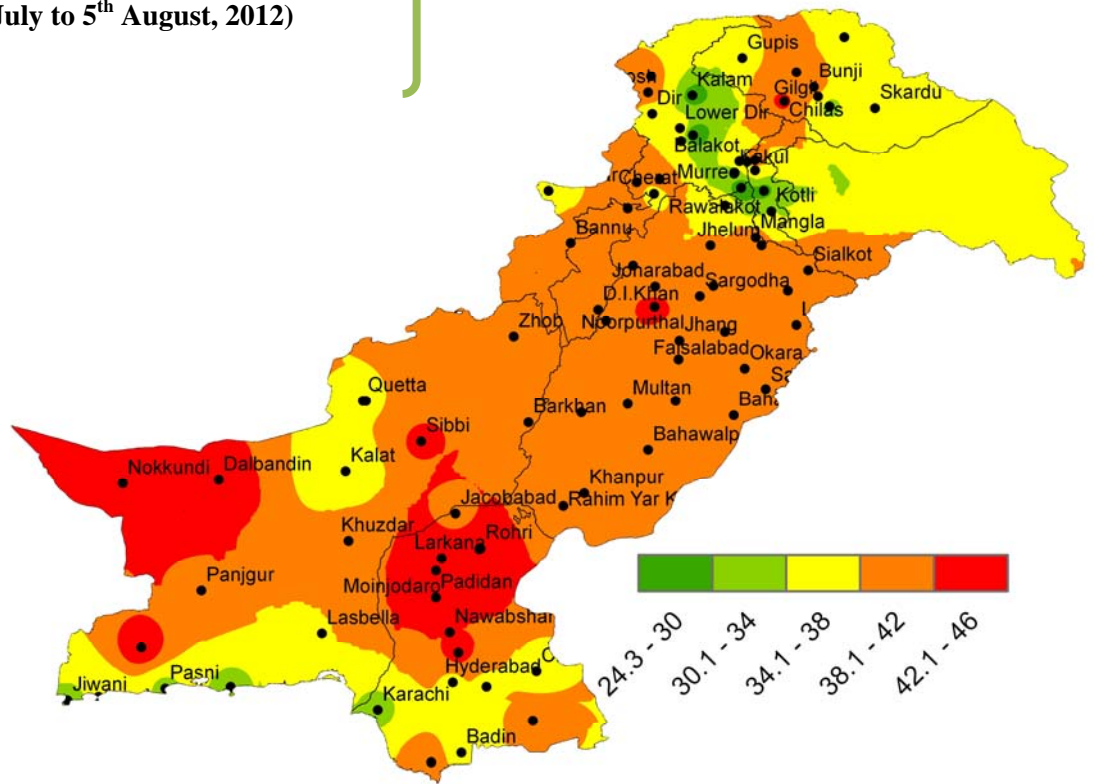
Presently one crop (Irrigated conditions) is grown in the fields as detailed below:

Rice: Good condition, Third Leaf stage almost completed.

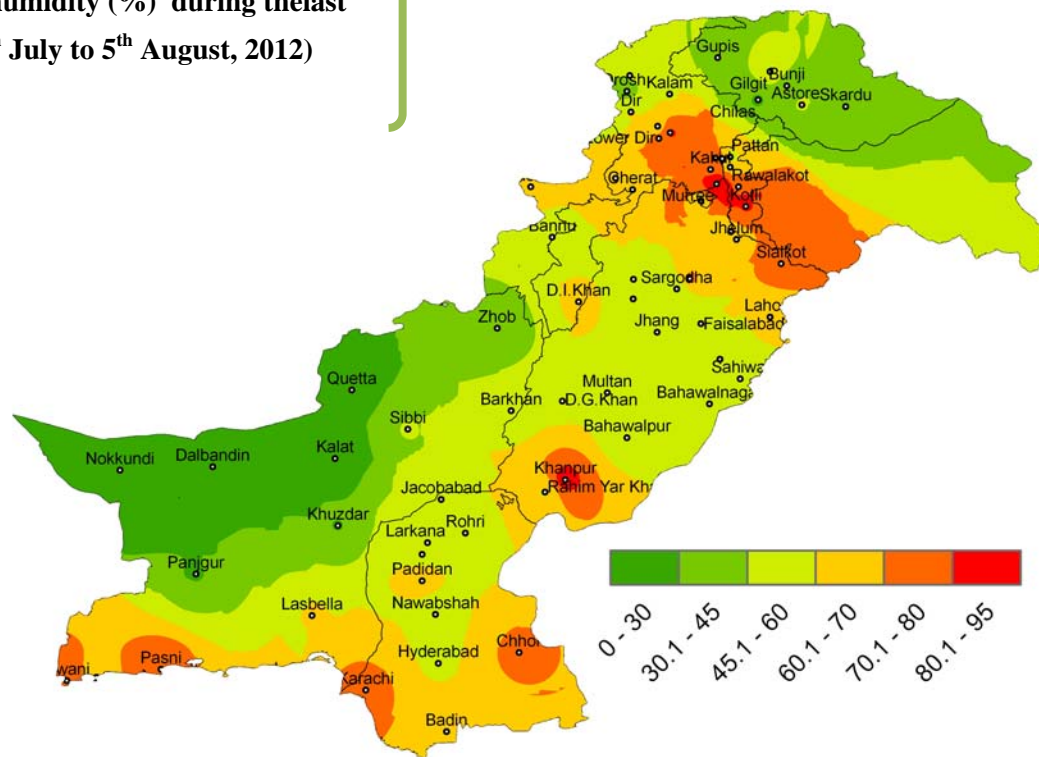
Mean maximum temperature (°C) during the last week (from 30th July to 5th August, 2012)



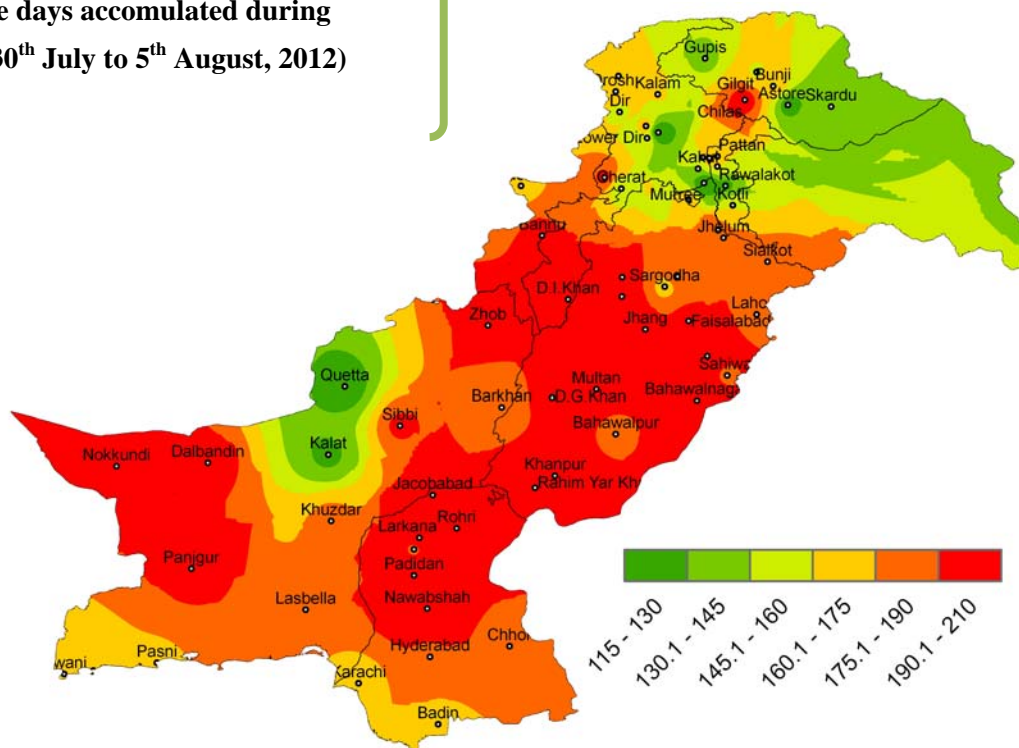
Extreme maximum temperature (°C) during the last week (from 30th July to 5th August, 2012)



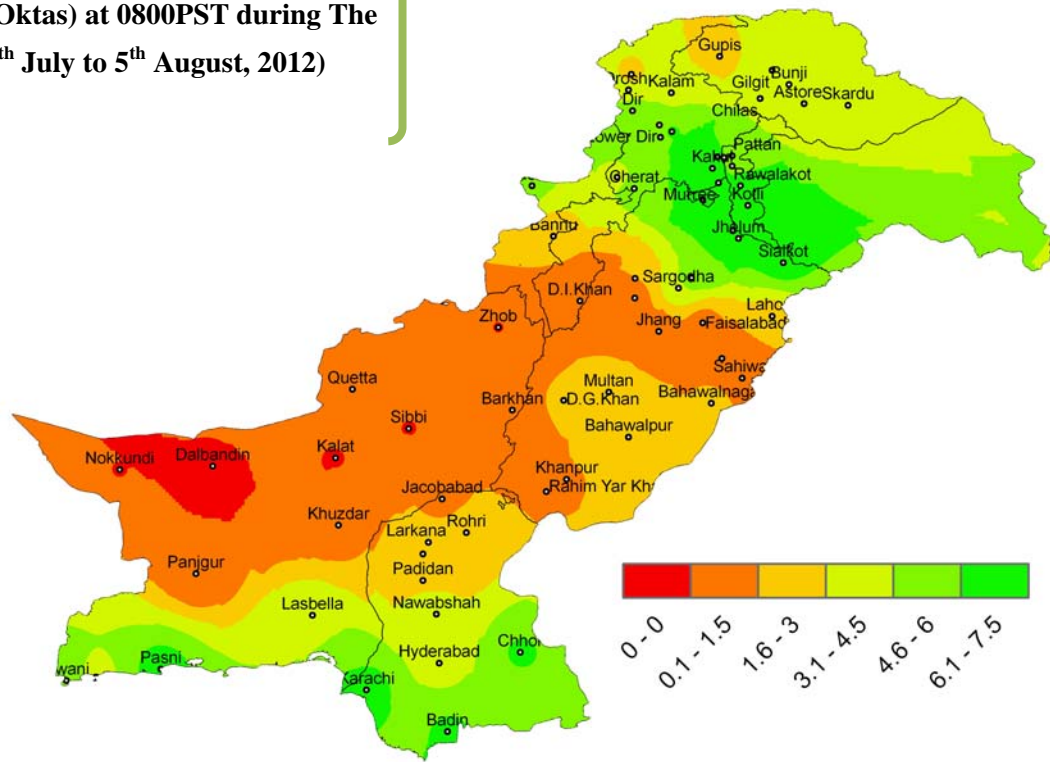
Mean relative humidity (%) during the last week (from 30th July to 5th August, 2012)



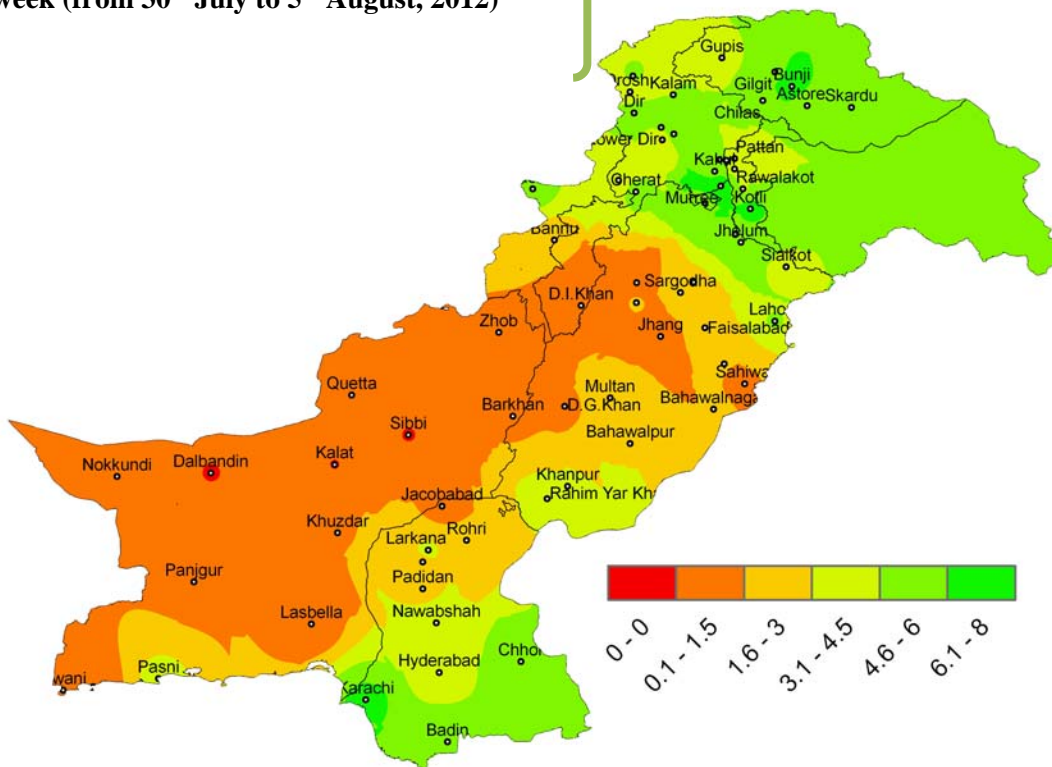
Total growing degree days accumulated during the last week (from 30th July to 5th August, 2012)



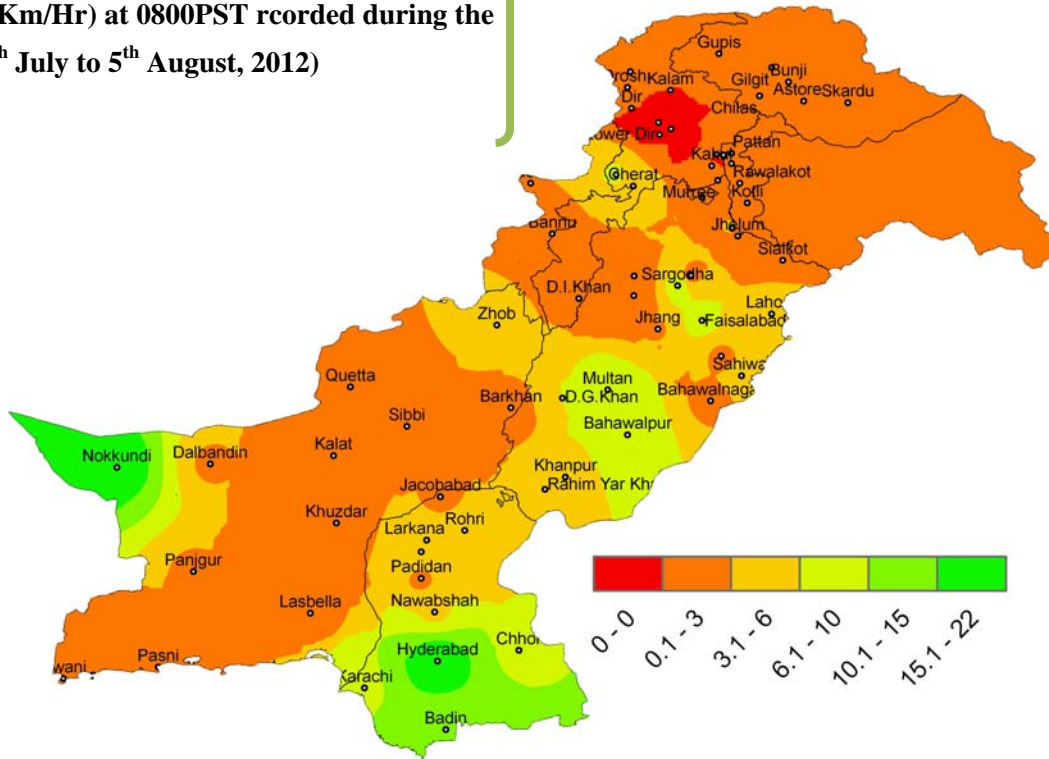
Mean Cloudiness (Oktas) at 0800PST during The last week (from 30th July to 5th August, 2012)



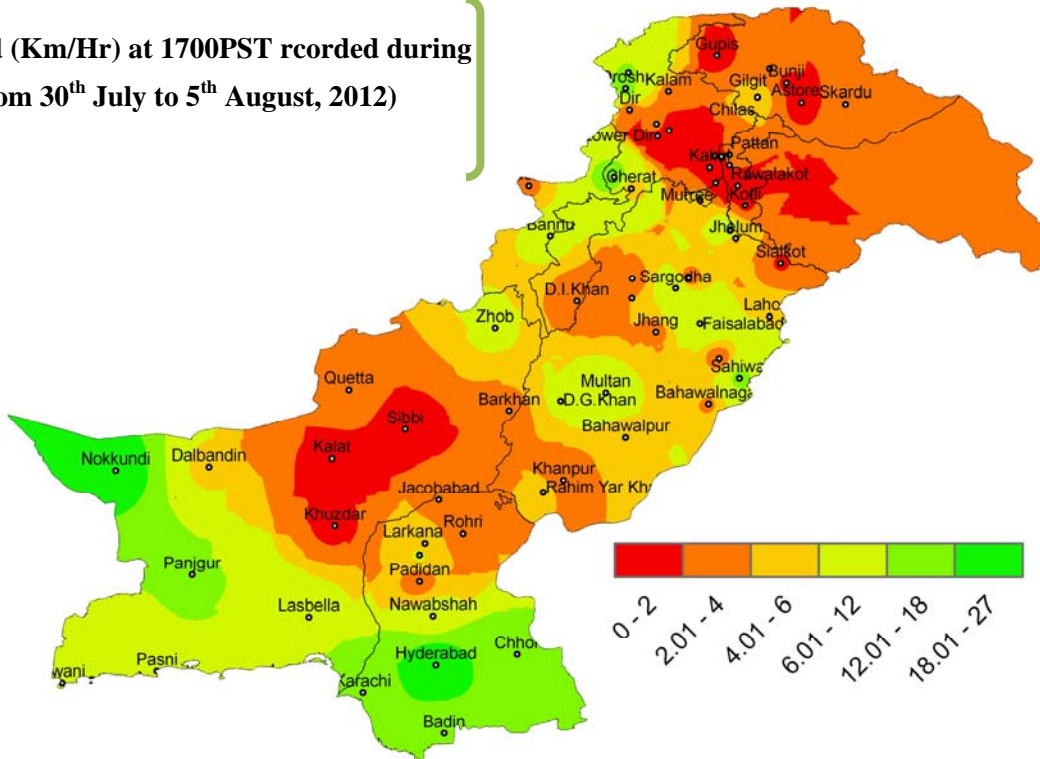
Mean Cloudiness (Oktas) at 1700PST during the last week (from 30th July to 5th August, 2012)



Mean wind speed (Km/Hr) at 0800PST rcordeed during the last week (from 30th July to 5th August, 2012)



Mean wind speed (Km/Hr) at 1700PST rcordeed during the last week (from 30th July to 5th August, 2012)



Weekly Weather advisory for Farmers (from 6th August to 12th August, 2012)

Weak Monsoon currents would likely to penetrate in Northeastern parts of the country and lower Sindh during next 2 to 3 days. A westerly wave is expected to approach northern half of the country during mid week and likely to prevail for 3 days.

Punjab including Islamabad:

Mainly hot & humid weather is expected in most parts of the province during the first half the week. However Rain/Thundershower is expected at isolated places of in Gujranwala & Rawalpindi divisions from Tuesday to Wednesday. Scattered Rain/Thundershower with isolated heavy falls is expected over upper parts of the province from Thursday to Sunday.

Khyber Pakhtunkhwa:

Mainly hot & humid weather is expected at isolated places of lower KP& Hazara division from Monday to Tuesday. Whereas at scattered places in upper and isolated places of lower KP from Thursday to Sunday.

Baluchistan:

Mainly hot and dry weather is expected in most parts of the province. However Thundershower is expected at isolated places of Northeast Balochistan (Zhob, Kalat and Sibi divisions) on Monday.

Sindh:

Mainly hot and humid weather is expected in most parts of the province. However Rain/Thundershower is expected at isolated places of Southeastern Sindh (Hyderabad and Mirpurkhas divisions) on Monday.

Kashmir:

Rain/Thundershower is expected at isolated places of Kashmir from Tuesday. Scattered Rain/Thundershower with isolated heavy falls is expected from Thursday to Sunday.

Gilgit-Baltistan:

Mainly dry weather is expected in most parts of GB during the week except Rain/thundershower with isolated heavy falls expected from Thursday to Sunday.

Advises for Crops:

Cotton/Sugarcane: Farmers of cotton belt are advised to manage irrigation practices as per prediction of monsoon rains 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, as there is forecast for light to moderate rainfall during the week. Also farmers are advised to keep control on post-harvesting losses due to pests/insects & hot/moist monsoon season.

Precautionary Measures for Animals Care:

Farmers in the lower half of the country especially those in central regions are advised to take up poultry rearing houses to maintain optimum room temperature and take care against the rapid changes in air temperature and relative humidity.

Farmers in the coastal belt of the country are advised to vaccinate the cattle's against black quarter and other diseases.

In central-southern Punjab, upper Sindh and southern Balochistan as the temperature is high, provide sufficient water and rice water (in particular areas) to the animals before leaving them for grazing.

National Weather Data of Selected Cities
(Weekly data from 30th July to 05th August, 2012)

Stations	Maximum/Day Temperature (°C)		Growing Deg. Days	Relative Humidity (%)	Rainfall (mm)	Cloudiness (Okta) 0800PST	Cloudiness (Okta) 1700PST	Wind Speed (Knots) 0800PST	Wind Speed (Knots) 1700PST
	Mean	Highest							
Astore	28.1	32.0	120	45.7	11.1	4.2	4.8	0.0	1.0
Badin	32.9	34.0	171	68.2	0.0	6.2	6.0	10.0	12.7
Bahawalnagar	39.9	41.0	208.35	51.6	0.0	2.2	1.6	2.4	3.7
Bahawalpur	39.0	40.2	186.1	51.5	0.0	2.0	3.0	8.7	5.0
Balakot	32.6	39.3	159.1	77.3	122.0	6.5	6.0	0.0	1.3
Bannu	38.9	42.0	194.8	52.0	2.1	1.8	1.8	0.0	7.5
Barkhan	36.5	38.5	177.9	52.3	0.0	0.0	1.0	0.3	2.7
Bunji	35.0	39.4	175.95	39.4	3.1	3.2	7.0	1.6	1.6
Cherat	31.2	35.0	144	66.5	23.0	5.2	3.3	3.7	4.5
Chhor	34.6	38.3	179.3	73.0	0.0	6.2	6.0	8.7	12.3
Chilas	38.7	42.7	202.65	28.5	3.0	3.8	3.3	2.4	6.0
Chitral	36.6	39.0	166.75	45.5	29.0	2.3	4.8	1.7	12.4
D.G.Khan	38.0	39.8	196.6	57.1	0.0	1.8	1.0	6.0	6.5
D.I.Khan	38.2	40	191.7	63.2	49.0	0.0	0.0	0.3	2.0
Dalbandin	41.8	44.5	197.75	19.1	0.0	0.0	0.0	2.4	4.7
Dir	33.9	38.5	155.95	60.6	20.0	5.8	3.8	0.0	1.6
Drosh	37.3	40.1	168	39.5	20.0	3.7	3.0	0.0	14.4
Faisalabad	38.2	40.5	198.95	56.5	0.0	0.5	1.8	7.7	10.8
Garidopatta	34.1	37	158	66.5	58.0	5.7	4.0	0.0	2.0
Gawadar	32.9	34	168.25	66.7	0.0	4.0	0.0	0.7	10.0
Gilgit	35.1	41	156.5	55.3	6.0	3.8	3.8	0.0	2.8
Gupis	31.4	36	137.75	40.8	5.0	2.5	3.3	1.7	1.2
Hyderabad	36.1	37	186.95	58.4	0.0	3.7	3.2	21.7	26.3
Islamabad	35.0	38.5	174	64.5	108.0	6.2	3.4	3.0	5.7
Jacobabad	39.2	41	193.5	58.5	0.0	0.7	0.6	2.3	3.3
Jhang	38.3	41	198.55	57.3	0.0	0.0	0.0	2.7	3.0
Jhelum	34.9	38.5	180.4	65.4	73.0	6.2	3.3	1.2	3.5
Jiwani	31.7	33.5	170.8	75.4	0.0	5.5	1.3	2.3	8.0
Joharabad	37.5	39.5	200.5	60.1	0.1	1.5	0.0	0.5	2.5
Kakul	30.5	33	143.35	76.0	62.0	7.2	3.3	0.0	1.5
Kalam	26.6	28.5	***	58.4	22.0	3.2	4.3	0.0	3.2
Kalat	31.6	34	125.75	21.6	0.0	0.0	0.0	0.7	1.3
Karachi	31.2	32.8	167.7	75.1	0.1	6.7	6.3	9.0	14.0
Khanpur	38.3	39.7	205.45	85.6	0.0	1.4	3.0	5.2	2.0
Khuzdar	38.9	40	180.75	29.8	0.0	0.0	1.4	0.7	1.3
Kotli	32.0	34.2	159.95	81.1	130.0	7.2	6.3	0.8	1.5
Lahore	36.2	39.5	185.25	62.0	110.0	2.3	4.6	3.7	6.0
Larkana	40.2	43	198.1	58.0	0.0	1.7	3.3	3.3	4.0
Lasbella	37.8	38	177.5	60.5	0.0	4.3	0.0	1.3	9.2
Lower Dir	36.4	39.5	170.7	63.0	75.0	5.7	4.3	0.0	3.2
Malam Jabba	22.8	24	97.75	82.7	37.0	6.2	6.0	0.0	0.0
Mandibahudin	35.0	38	182.4	72.8	70.0	5.7	1.3	1.7	2.0
Mangla	35.2	39.1	181.05	67.5	118.0	7.0	6.0	3.7	9.5

Moinjodaro	37.6	44	187.75	58.4	0.0	2.5	2.8	6.0	6.7
Multan	37.5	38.3	196.4	57.7	0.0	2.8	3.0	9.6	8.7
Murree	22.9	25	105.15	93.7	135.0	6.8	8.0	1.6	0.5
Muzaffarabad	34.3	38.1	169.25	74.8	148.1	6.4	4.3	0.0	0.5
Nawabshah	39.6	42	206.1	54.9	0.0	3.5	4.0	5.0	8.4
Nokkundi	41.0	44	197.75	10.3	0.0	0.0	0.6	19.3	22.3
Noorpurthal	40.8	43.7	205.8	53.8	17.0	0.5	1.8	0.0	4.0
Okara	39.0	41.5	200.9	57.2	0.0	0.6	1.5	2.4	2.0
Padidan	39.7	42	205.25	63.4	0.0	3.0	2.6	2.3	2.3
Panjgur	39.9	41.5	198	29.6	0.0	0.0	0.8	2.4	13.2
Parachinar	34.0	34.2	***	66.3	31.0	5.0	3.3	3.0	3.5
Pasni	32.1	33	173.25	79.0	0.0	6.8	3.6	1.0	11.0
Pattan	37.6	40.5	164.25	51.3	10.0	4.2	3.0	0.4	4.0
Peshawar	36.8	40.5	195.45	65.4	1.0	4.0	3.0	6.8	16.0
Quetta	36.5	38	117.5	19.9	0.0	0.3	0.6	1.7	4.0
Rahim Yar Khan	39.8	40.8	198.15	59.2	0.0	1.4	3.8	4.0	5.0
Rawalakot	25.9	28.5	125.2	79.1	26.0	6.8	4.3	0.0	1.0
Rohri	40.4	43	201.75	53.4	0.0	2.5	1.6	3.7	3.0
Sahiwal	38.2	40.5	187.55	58.3	0.0	0.6	1.3	3.6	13.5
Saidu Sharif	33.9	37	162.75	71.1	53.0	5.8	2.3	0.0	1.5
Sargodha	38.3	40.5	169	44.7	0.1	4.3	2.4	8.5	12.3
Sialkot	34.9	38.8	176.75	76.5	98.0	6.7	4.0	2.8	1.8
Sibbi	41.7	43	194.25	45.6	0.0	0.0	0.0	0.0	0.3
Skardu	30.8	37.4	133.1	37.7	7.0	4.5	3.3	0.7	3.6
Zhob	38.2	41	196	30.7	12.0	0.0	1.2	5.7	6.8

***Data not available