

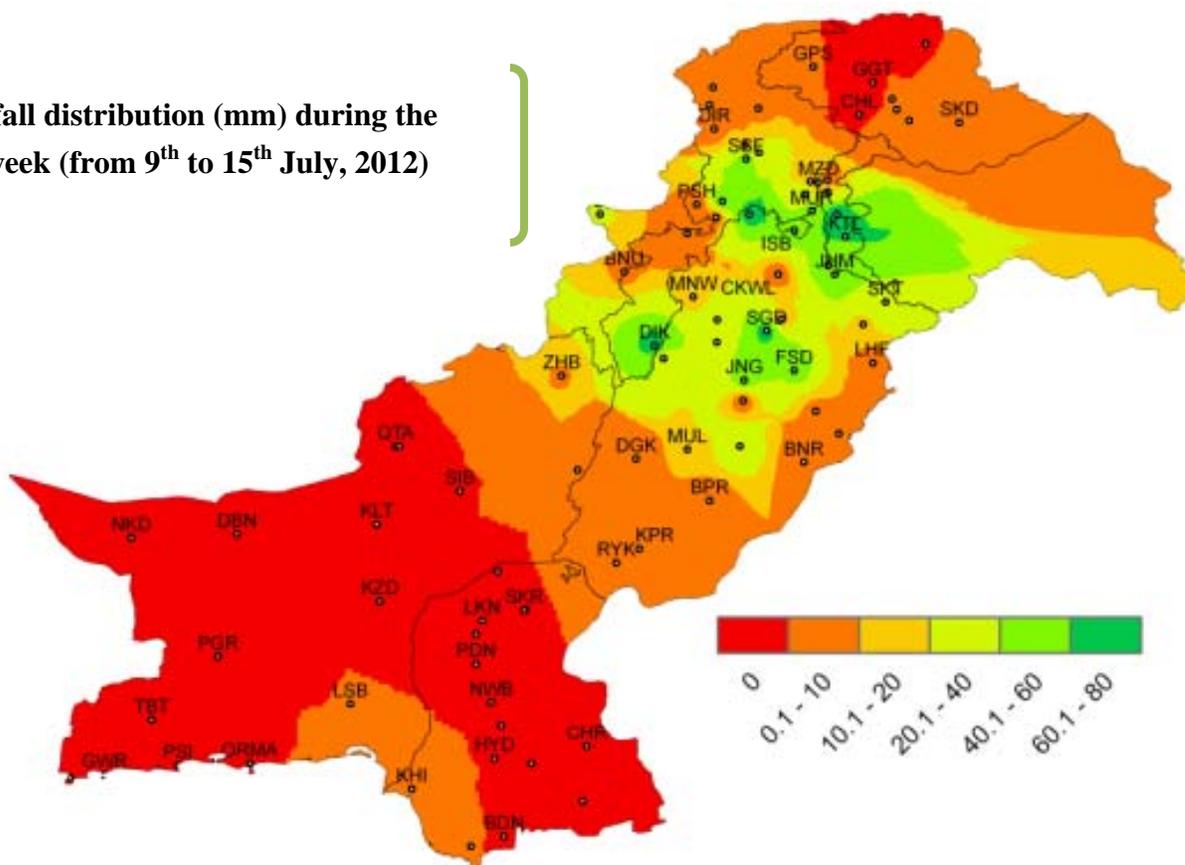
Weekly Weather and Crop Bulletin for Pakistan

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Rainfall distribution (mm) during the last week (from 9th to 15th July, 2012)



Highlights of Past Weather (9th to 15th July, 2012):

Monsoon rains of this season continued since the first week of July. Due to which light to moderate rainfall reported from most of the agricultural plains of Punjab, eastern belt of Khyber Pakhtoonkhwa, north-eastern & coastal parts of Balochistan, coastal parts of Sindh and Gilgit Baltistan & Kashmir during the week. Whereas dry weather/meager rainfall reported from rest of the agricultural plains of KP, Sindh and Balochistan.

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Punjab

Light to moderate rainfall reported from most of the agricultural plains of Punjab during the decade, chief amount received from the north-eastern parts of the province. Weekly maximum temperature and minimum temperature recorded as 37°C & 26.4°C respectively. For the present season on average 186.4 growing degree days accumulated by the end of last week. Average relative humidity recorded as 61% and wind speed in the morning/evening recorded as 2.4/3.5 Knots. During the previous week the highest rainfall recorded at Jhelum as 113.2 mm and the extreme maximum temperature recorded in the southern parts at Bahawalpur as 43.2°C. Overall the this week observed as wetter and cooler as compare to the previous one.

Sindh

Light rainfall reported from some of the agricultural plains in the coastal parts of the province during the week whereas dry weather persists in rest of the areas in Sindh. Weekly maximum temperature and minimum temperature recorded as 39.4°C & 27.8 °C respectively. For the present season on average 198.5 growing degree days accumulated by the end of last week. Average relative humidity recorded as 61% and wind speed in the morning/evening recorded as 5.9/8.8 Knots. During the previous week the highest rainfall recorded at Chhor as 23.0 mm and extreme maximum temperature recorded at Dadu as 47.0°C. Overall the this week observed as slightly wetter as well as cooler in comparison with the previous one.

Khyber Pakhtoon Khawa (KP)

Light to moderate rainfall reported from most of the agricultural plains in the central-eastern parts of KP during the week where as dry weather observed at the locations in the north-western belt. Weekly maximum temperature and minimum temperature recorded as 34.9°C & 22.0°C respectively. For the present season on average 164.0 growing degree days accumulated by the end of last week. Average relative humidity recorded

as 49 % and wind speed in the morning/evening recorded as 1.9/2.06 Knots. During the previous week the highest rainfall recorded at Kakul as 84.0 mm and the extreme maximum temperature recorded at Bannu as 42.6°C. Overall the this week observed as wetter and cooler as compare to the previous one.

Balochistan

Light rainfall reported from few of the agricultural plains in the north-eastern and coastal parts of the province. Weekly maximum temperature and minimum temperature recorded as 37.1°C & 24.5 °C respectively. For the present season on average 181.7 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 2.1/8.0 Knots. During the previous week the highest rainfall recorded at Barkhan as 99 mm and the extreme maximum temperature recorded at Dalbandin as 47°C. Overall the this week observed as slightly wetter in comparison with the previous one where as almost same conditions persists in terms of temperature.

Gilgit Baltistan and Azad Jammu & Kashmir

Light to moderate rainfall reported from most of the agricultural plains of the areas in Azad Jammu & Kashmir. Weekly maximum temperature and minimum temperature recorded as 33.8°C & 19.4 °C respectively. For the present season on average 151.4 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 0.8/4.7 Knots. During the previous week the highest rainfall recorded at Kotli as 74.0 mm and the extreme maximum temperature recorded at Gilgit as 41.5°C. Overall the this week observed as slightly wetter as well as cooler in comparison with the previous one.

Past Weather for Major Agricultural Plains (9th to 15th July, 2012)

Rawalpindi (Potohar region)

Rainfall reported as 56.9 mm during the last week, Mean cloudiness recorded as 5.0 oktas and average relative humidity 56%. Mean night temperature was 25.8°C with absolute value 23.0°C while day temperature recorded as 36.2°C with absolute value 39.0°C & for the present season 181.9 growing degree days accumulated by the end of last week. Wind speed recorded as 2.5 Km/hr with mean direction *westerly*.

Tandojam (Lower Sindh)

Rainfall reported as 1.0 mm during the last week, Mean cloudiness recorded as 3.6 oktas and average relative humidity 62%. Mean night temperature was 27.1°C with absolute value 26.0°C while day temperature recorded as 36.8°C with absolute value 40.0°C & for the present season 188.8 growing degree days accumulated by the end of last week. Wind speed recorded as 7.5 Km/hr with mean direction *southerly*.

Faisalabad (Central Punjab)

Rainfall reported as 16.0 mm during the last week, Mean cloudiness recorded as 3.9 oktas and average relative humidity 63%. Mean night temperature was 26.8°C with absolute value 23.5°C while day temperature recorded as 36.4°C with absolute value 39.2°C & for the present season 186.3 growing degree days accumulated by the end of last week. Wind speed recorded as 6.1 Km/hr with mean direction *south-easterly*.

Quetta (Northern Balochistan)

No Rainfall reported during the last week. Mean night temperature was 21.5°C with absolute value 20.0°C while day temperature recorded as 37.2°C with absolute value 38.5°C & for the present season 133.0 growing degree days accumulated by the end of last week.

Usta Muhammad (Eastern Balochistan)

No Rainfall reported during the last week, sky conditions were totally clear and average relative

humidity 21%. Mean night temperature was 28.8°C with absolute value 28.0°C while day temperature recorded as 43.4°C with absolute value 45.0°C & for the present season 217.8 growing degree days accumulated by the end of last week. Wind speed recorded as 3.5 Km/hr with mean direction *southerly*.

Past Weather for sub regional Agricultural Plains (9th to 15th July, 2012)

Rohri

No rainfall reported during the last week, cloudiness recorded in the morning/evening as 1.0/0.7 oktas and average relative humidity 50%. Mean day temperature recorded as 42.5°C with absolute value 44.0°C & for the present season 217.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.7/3.7 Knots.

Skardu

Rainfall reported as 0.2 mm during the last week, cloudiness recorded in the morning/evening as 3.9/5.7 oktas and average relative humidity 34%. Mean day temperature recorded as 31.5°C with absolute value 34.8°C & for the present season 129.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/6.0 Knots.

Multan

Rainfall reported as 14.0 mm during the last week, cloudiness recorded in the morning/evening as 1.0/2.7 oktas and average relative humidity 57%. Mean day temperature recorded as 40.5°C with absolute value 43.2°C & for the present season 210.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.0/4.6 Knots.

Lahore

Rainfall reported as 30.2 mm during the last week, cloudiness recorded in the morning/evening as 3.7/5.4 oktas and average relative humidity 64%. Mean day temperature recorded as 36.8°C with absolute value 39.3°C & for the present season 185.9 growing degree days accumulated by the end

of last week. Wind speed recorded in the morning/evening as 3.4/0.9 Knots.

Sargodha

Rainfall reported as 21.1 mm during the last week, cloudiness recorded in the morning/evening as 4.3/2.8 oktas and average relative humidity 55%. Mean day temperature recorded as 35.7°C with absolute value 40.0°C & for the present season 180.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 6.5/10 Knots.

Gilgit.

Rainfall reported as 0.2 mm during the last week, cloudiness recorded in the morning/evening as 1.9/4.9 oktas and average relative humidity 40%. Mean day temperature recorded as 37.5°C with absolute value 41.5°C & for the present season 155.6 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.4/7.4 Knots.

Jhelum

Rainfall reported as 113.2 mm during the last week, cloudiness recorded in the morning/evening as 4.9/4.3 oktas and average relative humidity 59%. Mean day temperature recorded as 36.2°C with absolute value 41.0°C & for the present season 178.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.7/2.9 Knots.

D.I. Khan

Rainfall reported as 2.0 mm during the last week, cloudiness recorded in the morning/evening as 2.9/2.4 oktas and average relative humidity 67%. Mean day temperature recorded as 37.0°C with absolute value 40.0°C & for the present season 183.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/6.3 Knots.

Peshawar

Rainfall reported as 2.0 mm during the last week, cloudiness recorded in the morning/evening as 4.0/2.0 oktas and average relative humidity 49%. Mean day temperature recorded as 37.9°C with

absolute value 41.5°C & for the present season 190.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 8.3/6.0 Knots.

Murree

Rainfall reported as 39.0 mm during the last week, cloudiness recorded in the morning/evening as 5.3/5.0 oktas and average relative humidity 77%. Mean day temperature recorded as 23.2°C with absolute value 24.8°C & for the present season 107.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.3/0.9 Knots.

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

Potohar Region (Rawalpindi)

Presently no crop is grown in the fields.

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 Budding stage completed.

Lower Sindh (Tandojam)

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

Cotton (BT-886): Good condition, Boll Formation stage.

Northern Balochistan (Quetta)

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

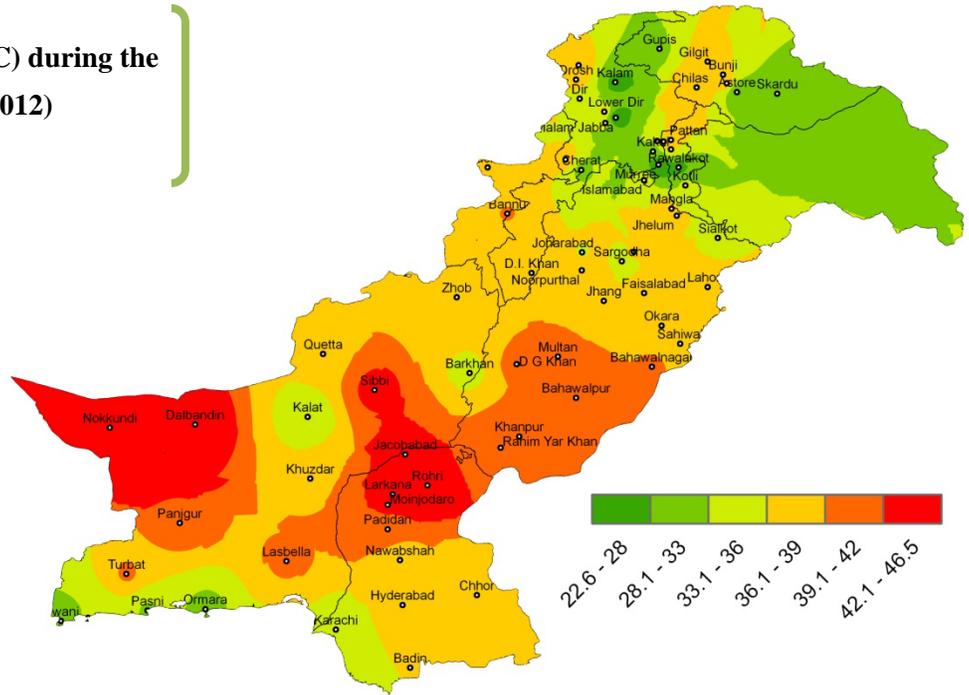
Wheat (Local White): Good condition at Full Maturity stage.

Eastern Balochistan (Usta Muhammad)

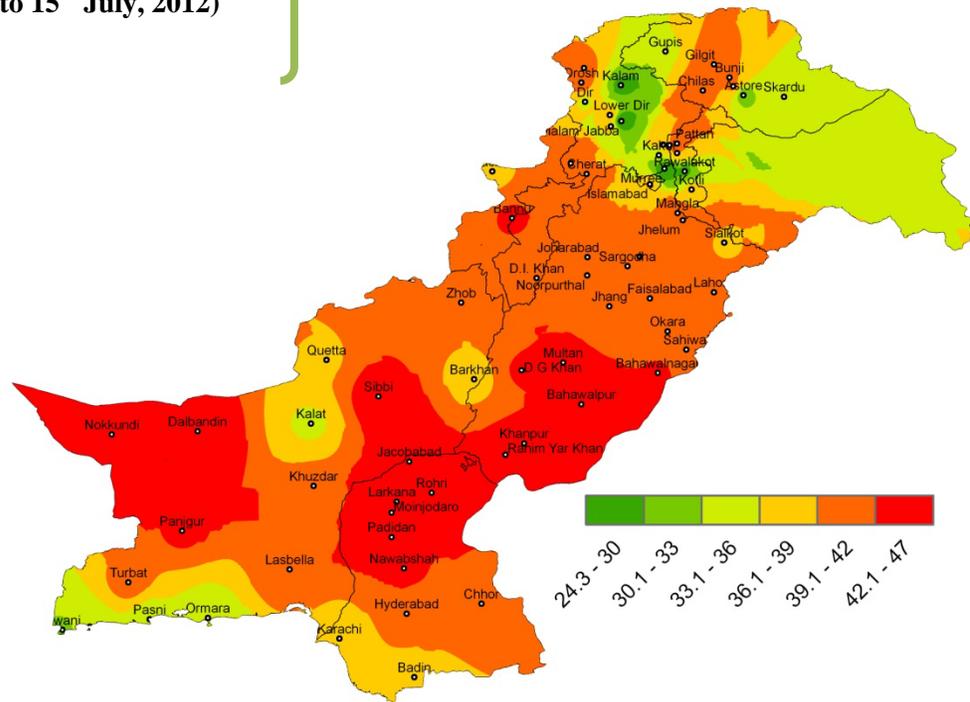
Presently one crop (Irrigated conditions) is grown at the station as detailed below:

Rice: Emergence stage completed.

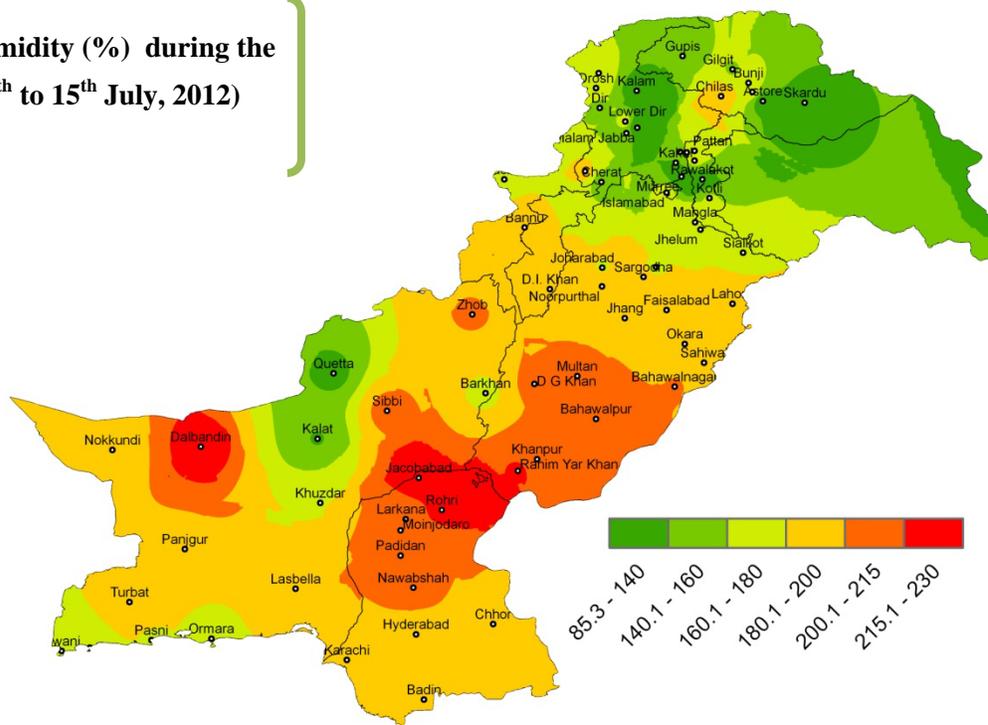
Mean maximum temperature (°C) during the last week (from 9th to 15th July, 2012)



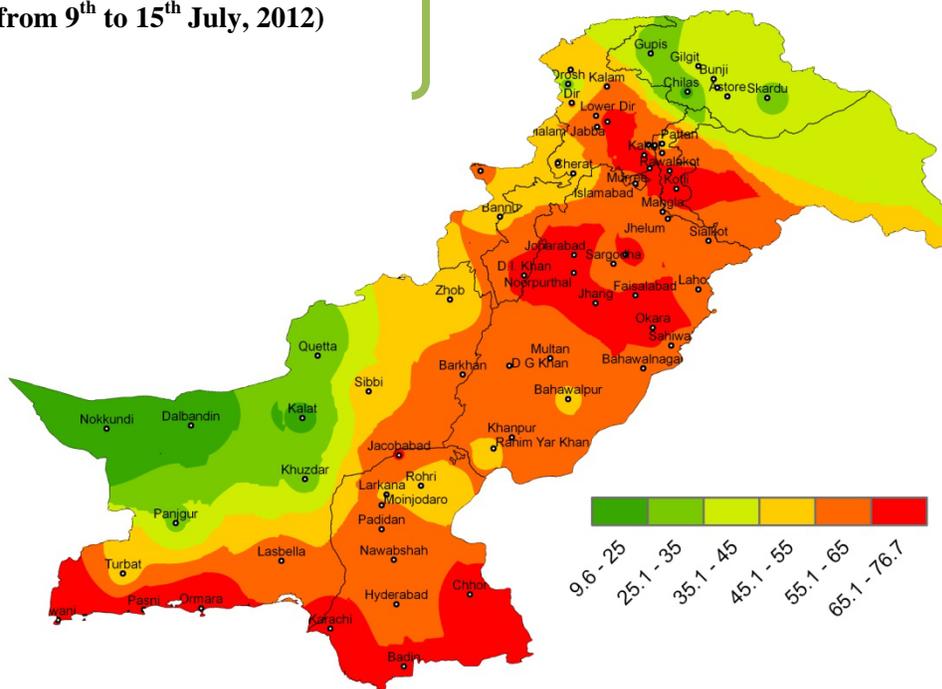
Extreme maximum temperature (°C) during the last week (from 9th to 15th July, 2012)



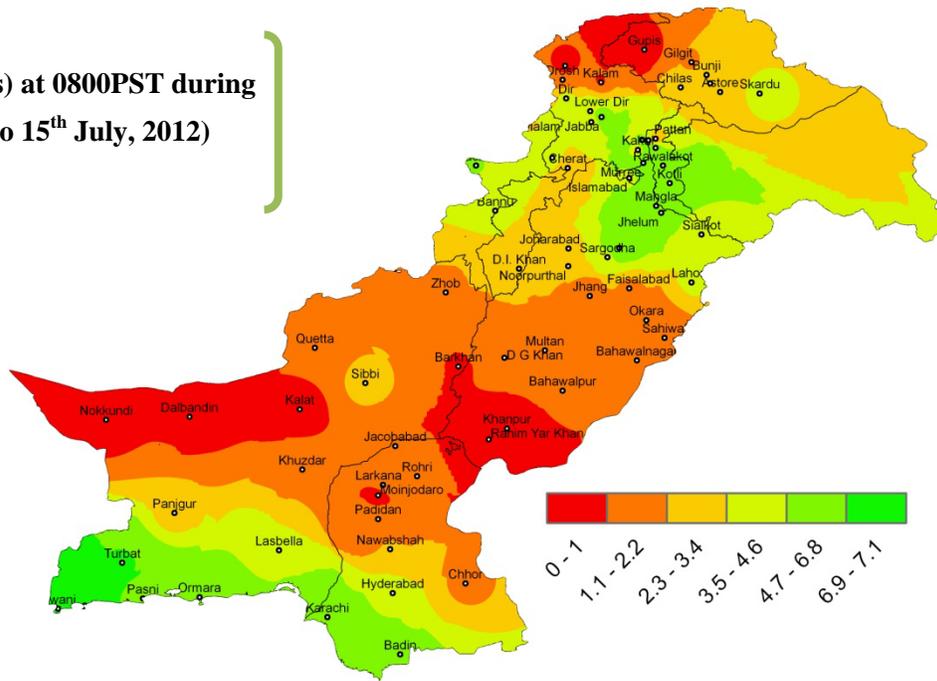
Mean relative humidity (%) during the last week (from 9th to 15th July, 2012)



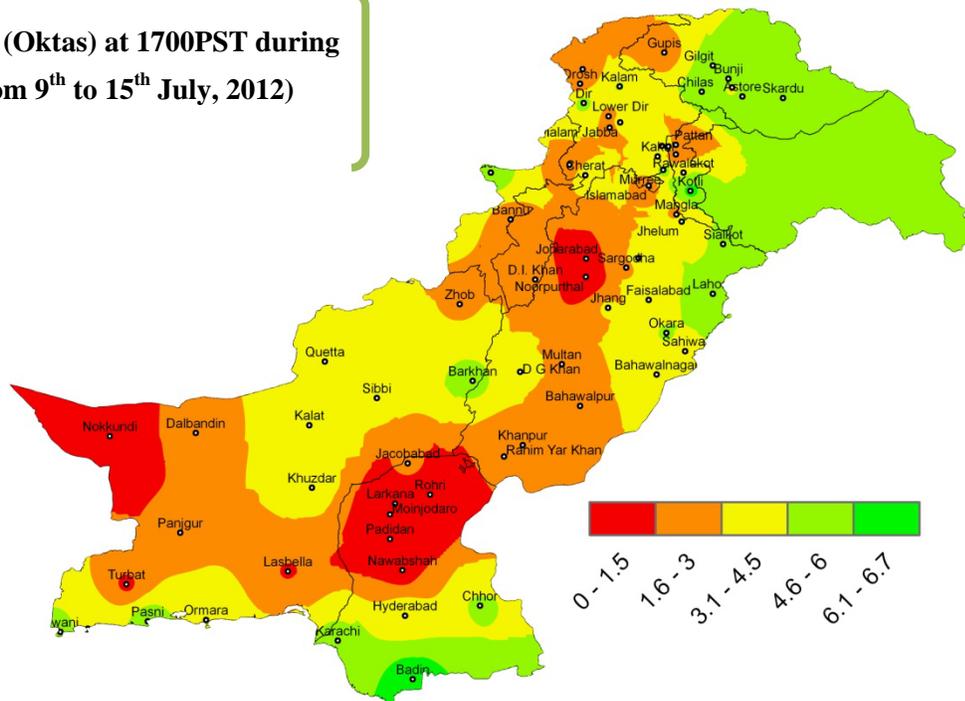
Total growing degree days accumulated during the last week (from 9th to 15th July, 2012)



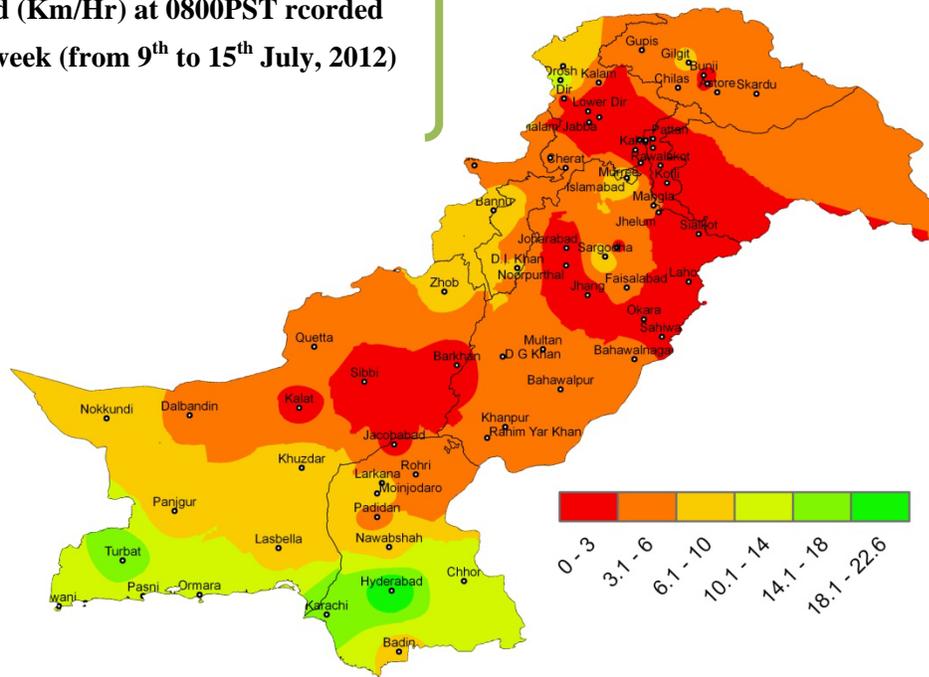
Mean Cloudiness (Oktas) at 0800PST during the last week (from 9th to 15th July, 2012)



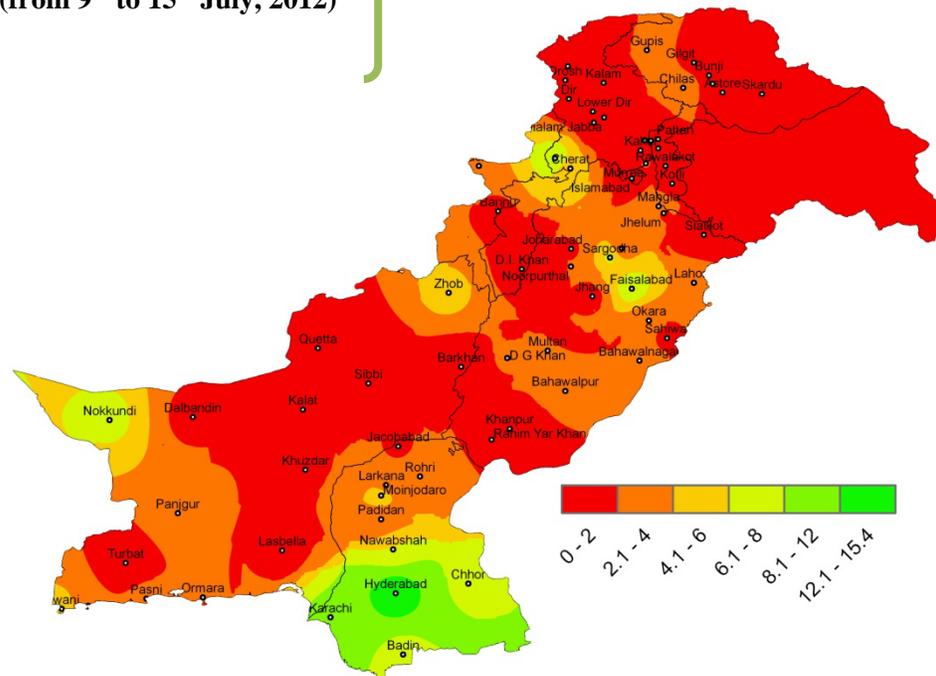
Mean Cloudiness (Oktas) at 1700PST during the last week (from 9th to 15th July, 2012)



Mean wind speed (Km/Hr) at 0800PST rcorde
during the last week (from 9th to 15th July, 2012)



Mean wind speed (Km/Hr) at 1700PST rcorde
during the last week (from 9th to 15th July, 2012)



Weekly Weather advisory for Farmers (from 16th to 22nd July, 2012)

The monsoon circulation lies over Madhya Pradesh and its adjoining areas. A well marked Seasonal low lies over Central Baluchistan with its trough extending southeast ward. These synoptic features are causing monsoon currents to penetrate into eastern parts of the country,

Punjab including Islamabad:

Thundershowers expected at isolated of places of Islamabad/Rawalpindi and Gujranwala divisions from Tuesday to Wednesday. Another spell of light to moderate rains is expected at scattered places of Rawalpindi, Gujranwala, Lahore, Sargodha and Faisalabad divisions from Friday to Sunday.

Khyber Pakhtunkhwa:

Thundershower is expected at scattered places of Southern KP on Tuesday and then from Friday to Saturday. While isolated thundershower is likely over Malakand and Hazara divisions on Tuesday.

Baluchistan:

Mainly hot and dry weather is expected in most parts of the province. However, rain/thunderstorms are likely at isolated places of Zhob and Kalat divisions on Tuesday.

Sindh:

Mainly hot and humid weather is expected in most parts of the province, however rain/ thunderstorms is likely at isolated places along Sindh coast towards the end of the week.

Kashmir:

Thunder/showers are likely to occur at isolated places on Wednesday. Another spell of moderate rains at scattered places with few heavy falls is likely from Saturday to Sunday.

Gilgit-Baltistan:

Mainly dry weather likely during the week. However light rain is likely at isolated places on Thursday.

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. Restrict grazing after 11 am and before 4 pm due to chances of sunstroke.

National Weather Data of Selected Cities
(Weekly data from 9th July to 15th July, 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	27.2	30.0	110.1	42	0.2	2.3	5.0	0.0	4.3
BADIN	36.0	37.5	184.8	65	0.1	5.6	6.7	6.6	8.0
BAHAWALNAGAR	39.5	42.5	201.1	63	30.0	1.9	4.1	2.3	5.1
BAHAWALPUR	40.5	43.2	211.1	54	5.0	1.4	2.1	2.3	4.0
BALAKOT	32.9	36.5	151.1	62	46.0	5.0	3.6	0.4	1.4
BANNU	39.1	42.6	189.5	54	0.1	3.6	2.4	1.4	7.7
BARKHAN	34.9	37.0	174.5	61	99.0	0.9	5.0	0.0	1.1
BUNJI	36.7	40.0	174.4	41	0.0	3.3	6.3	1.0	2.0
CHERAT	31.9	40.0	145.8	53	0.0	2.3	3.7	4.0	4.3
CHHOR	36.9	40.5	181.8	68	23.0	1.9	4.6	7.1	10.0
CHILLAS	38.9	40.8	199.7	23	0.1	3.1	5.0	4.0	5.4
CHITRAL	39.1	41.0	176.3	52	0.0	0.4	1.6	1.7	6.9
D I KHAN	37.0	40.0	183.0	67	2.0	2.9	2.4	0.9	6.3
DALBANDIN	46.5	47.0	228.3	22	0.0	0.4	2.1	1.1	5.1
D G KHAN	39.9	42.5	205.5	58	34.1	2.0	3.4	2.3	6.0
DIR	33.5	35.0	151.5	56	5.0	3.9	5.0	0.0	2.0
DROSH	38.0	41.1	173.8	29	0.0	1.4	2.4	0.6	15.1
FAISALABAD	31.6	39.2	186.3	63	16.0	1.7	3.7	4.1	1.8
GARHIDOPATTA	36.1	39.0	165.5	59	25.0	5.7	1.4	1.4	2.0
GAWDAR	33.1	34.0	173.8	77	0.0	7.0	4.0	2.0	11.1
GILGIT	37.5	41.5	155.6	40	0.2	1.9	4.9	1.4	7.4
GUPIS	32.1	34.5	142.5	33	0.0	0.0	2.0	2.3	3.1
HYDERABAD	37.7	41.0	187.0	64	0.0	4.1	4.0	15.4	22.6
ISLAMABAD	36.1	39.5	175.7	58	102.0	4.4	2.3	1.1	9.7
JACOBABAD	42.2	44.5	219.5	66	3.0	1.0	1.9	1.4	2.0
JHANG	36.0	39.0	184.3	69	32.0	1.0	3.1	1.1	1.1
JHELUM	36.2	41.0	178.7	59	113.2	4.9	4.3	1.7	2.9
JIWANI	31.7	32.5	169.2	76	0.0	7.1	5.0	5.4	10.9
JOHARABAD	35.9	39.5	179.3	71	17.0	2.9	1.1	1.7	1.7
KAKUL	30.9	34.0	138.2	69	84.0	4.3	3.1	0.3	0.9
KALAM	26.6	28.5	117.3	55	7.0	0.9	4.6	0.0	3.1
KALAT	33.2	35.0	139.0	23	0.0	0.0	3.9	0.6	2.3
KARACHI	33.9	36.0	185.3	69	0.4	6.8	5.0	8.8	15.1
KHANPUR	40.4	42.6	209.0	60	20.0	0.0	1.9	1.4	3.1
KHUZDAR	37.5	40.0	180.0	34	5.1	2.0	4.0	1.4	8.3
KOTLI	34.1	37.8	163.8	76	74.0	5.9	6.4	1.4	2.1
LAHORE	36.8	39.3	185.9	64	30.2	3.7	5.4	3.4	0.9
LARKANA	42.5	44.0	211.9	54	0.0	1.3	0.6	2.0	6.6
LASBELLA	39.6	42.0	194.3	58	30.0	4.0	1.4	0.6	9.1
LOWER DIR	37.4	40.0	174.8	55	60.0	4.5	2.7	2.0	2.0

Cont....

M. B DIN	36.1	40.0	179.6	70	37.1	6.3	3.6	2.3	2.0
MALAMJABA	22.3	24.0	83.6	76	43.0	5.4	3.3	0.0	0.0
MANGLA	36.4	40.5	179.7	63	33.1	5.4	2.4	3.4	3.4
MIRKHANI	38.2	40.0	176.7	37	0.0	2.6	3.9	1.7	2.6
MOENJODARO	42.5	44.0	207.8	55	0.0	0.7	0.5	5.7	7.0
MULTAN	40.5	43.2	210.5	57	14.0	1.0	2.7	2.0	4.6
MURREE	23.2	24.8	107.3	77	39.0	5.3	5.0	2.3	0.9
MUZAFFARABAD	35.7	39.3	162.9	63	72.0	4.9	3.9	0.0	1.3
NAWABSHAN	36.1	42.5	210.8	56	0.0	2.3	1.0	6.0	8.6
NOKUNDI	46.0	47.0	186.6	10	0.0	0.0	0.0	6.7	9.7
NOORPUR THAL	37.3	41.8	186.9	65	15.0	2.4	0.0	2.0	0.9
OKARA	37.9	40.5	193.5	67	42.0	1.4	4.6	2.0	1.1
ORMARA	32.1	33.0	173.3	76	0.0	6.0	4.4	2.0	14.0
PADIDAN	41.0	42.0	207.0	65	0.0	1.3	1.0	2.0	4.9
PANJGUR	41.4	43.0	193.8	34	10.0	2.6	1.9	4.0	7.4
PARACHINAR	37.0	37.6	176.3	56	0.0	4.7	5.6	3.0	3.9
PASNI	32.7	33.5	179.0	76	0.0	6.6	5.4	2.8	11.1
PATTAN	38.9	40.5	183.5	46	6.0	1.5	2.3	1.7	2.6
PESHAWAR	37.9	41.5	190.2	49	2.0	4.0	2.0	8.3	6.0
QUETTA	37.1	38.5	133.0	30	0.0	1.5	3.1	0.0	4.6
RAWALPINDI	31.0	39.0	181.9	56	56.9	4.4	2.3	1.1	9.7
R Y KHAN	41.8	43.8	216.8	54	0.0	0.9	1.6	1.7	3.4
RAWALAKOT	26.0	28.8	113.8	66	64.0	5.9	4.4	0.0	1.1
ROHRI	42.5	44.0	217.0	50	0.0	1.0	0.7	3.7	3.7
SAHIWAL	37.8	40.6	192.4	64	86.0	1.1	4.3	1.7	1.4
SAIDUSHARIF	34.4	37.6	161.4	59	38.1	3.9	2.7	0.0	0.0
SARGODHA	35.7	40.0	180.5	55	21.1	4.3	2.8	6.5	10.0
SIALKOT	35.5	38.7	177.5	60	29.2	3.6	4.7	0.3	0.6
SIBBI	43.3	45.2	209.9	49	0.0	2.8	3.6	0.0	2.0
SKARDU	31.5	34.8	129.0	34	0.2	3.9	5.7	0.6	6.0
TANDOJAM	32.0	40.0	188.8	62	1.0	4.1	4.0	8.3	12.2
TURBAT	39.4	41.5	192.0	51	4.0	7.0	1.3	0.0	17.1
U MUHAMMAD	36.1	45.0	217.8	21	0.0	***	***	***	***
ZHOB	36.4	39.5	202.0	49	0.2	2.0	2.9	0.5	6.7

***Data not available