

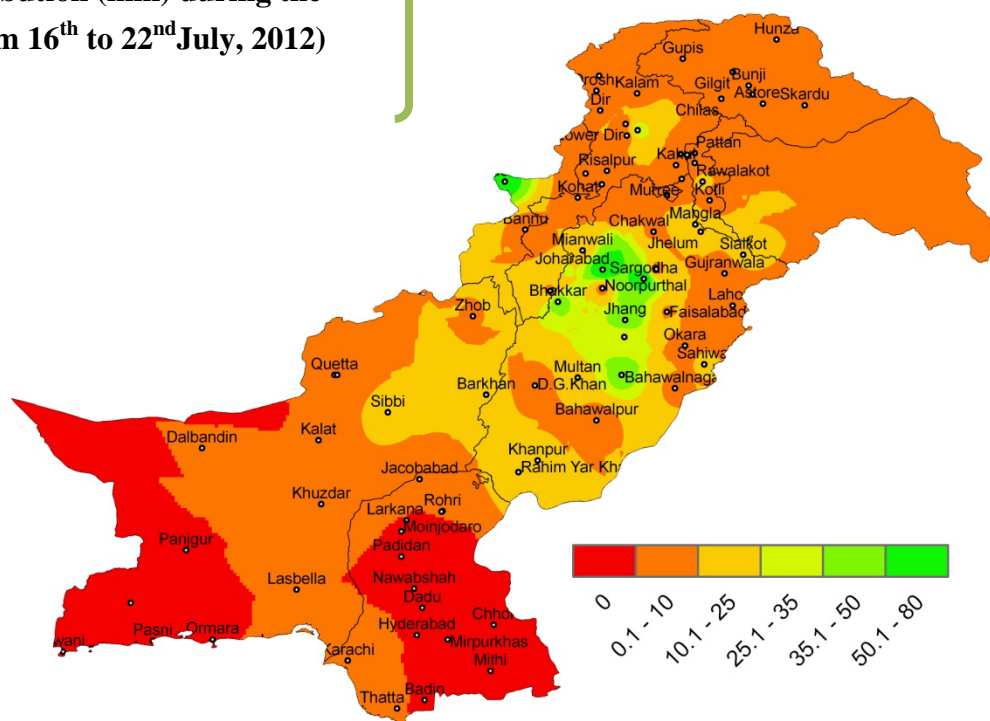
Weekly Weather and Crop Bulletin for Pakistan

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Rainfall distribution (mm) during the last week (from 16th to 22nd July, 2012)



Highlights of Past Weather (16th to 22nd July, 2012):

Monsoon rains of this season continued mainly in upper half of the country. Due to which light to moderate rainfall reported from most of the agricultural plains of Punjab, upper Khyber Pakhtoonkhwa, few places in northern & central parts of Balochistan and scattered places of Gilgit Baltistan & Kashmir during the week. Whereas dry weather/meager rainfall reported from Sindh and rest of the agricultural plains of KP 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 northern parts of the province. Weekly maximum temperature and minimum temperature recorded as 38.3°C & 26.5°C respectively. For the present season on average 192.3 growing degree days accumulated by the end of last week. Average relative humidity recorded as 60% and wind speed in the morning/evening recorded as 2.0/4.5 Knots. During the previous week the highest rainfall recorded at Joharabad as 80.0 mm and the extreme maximum temperature recorded at Bakkar & Noorpurthal as 44.0°C.

Sindh

Dry weather reported from most of the places except Jacobabad and Karachi where rainfall occurred in meager amount. Weekly maximum temperature and minimum temperature recorded as 39.1°C & 27.6 °C respectively. For the present season on average 201.9 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 5.8/8.1 Knots. During the previous week the highest rainfall recorded at Karachi as 0.4 mm and extreme maximum temperature recorded at Dadu as 44.2°C.

Khyber Pakhtoon Khawa (KP)

Light to moderate rainfall reported from most of the agricultural plains especially from upper parts of KP during the week. Weekly maximum temperature and minimum temperature recorded as 35.6°C & 21.5°C respectively. For the present season on average 168.7 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 1.4/4.1 Knots. During the previous week the highest rainfall recorded at Malam Jabba as 37.0 mm and the extreme maximum temperature recorded at Bannu as 43.6°C.

Balochistan

Light rainfall reported from few of the agricultural plains in the northern and central parts of the province. Weekly maximum temperature and minimum temperature recorded as 37.1°C & 24.3 °C respectively. For the present season on average 183.4 growing degree days accumulated by the end of last week. Average relative humidity recorded as 46% and wind speed in the morning/evening recorded as 2.3/7.3 Knots. During the previous week the highest rainfall recorded at Barkhan & Sibbi as 19 mm and the extreme maximum temperature recorded at Dalbandin as 46°C.

Gilgit Baltistan and Azad Jammu & Kashmir

Light rainfall reported from some of the agricultural plains of the specified region. Weekly maximum temperature and minimum temperature recorded as 33.7°C & 19.0 °C respectively. For the present season on average 153.1 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 1.1/2.9 Knots. During the previous week the highest rainfall recorded at Rawalakot as 14.0 mm and the extreme maximum temperature recorded at Pattan as 41°C.

Past Weather for Major Agricultural Plains (16th to 22nd July, 2012)

Rawalpindi (Potohar region)

Rainfall reported as 4 mm during the last week, cloudiness recorded in the morning/evening as 1.7/2.3 oktas and average relative humidity 34%. Mean day temperature recorded as 37.9°C & for the present season 179.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.2/2.0 Knots.

Tandojam (Lower Sindh)

No rainfall reported during the last week, cloudiness recorded in the morning/evening as 2.5/1.3 oktas and average relative humidity 62%. Mean day temperature recorded as 41.2°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 7.1/6.3 Knots.

Faisalabad (Central Punjab)

Rainfall reported as 8.1 mm during the last week, cloudiness recorded in the morning/evening as 1.0/1.7 oktas and average relative humidity 60%. Mean day temperature recorded as 37.7°C & for the present season 192.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.7/6.9 Knots.

Quetta (Northern Balochistan)

No Rainfall reported during the last week, cloudiness recorded in the morning/evening as 0.5/2.9 oktas and average relative humidity 25%. Mean day temperature recorded as 42.5°C & for the present season 212.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/1.4 Knots.

Usta Muhammad (Eastern Balochistan)

No rainfall reported during the week, weather remained cloudy for 4 days and average relative humidity recorded as 48%. Mean night temperature was 28.5°C while day temperature

recorded as 42.6°C. Wind speed recorded as 5.5 Km/hr with mean direction *southerly*.

Past Weather for sub regional Agricultural Plains (16th to 22nd July, 2012)

Rohri

No rainfall reported during the last week, cloudiness recorded in the morning/evening as 1.3 oktas and average relative humidity 52%. Mean day temperature recorded as 42.1°C & for the present season 216.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.1/3.7 Knots.

Skardu

Rainfall reported as 1.1 mm during the last week, cloudiness recorded in the morning/evening as 5.1/6.0 oktas and average relative humidity 45%. Mean day temperature recorded as 33.7°C & for the present season 153.1 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 21.0 mm during the last week, cloudiness recorded in the morning/evening as 2.1/1.6 oktas and average relative humidity 59%. Mean day temperature recorded as 38.5°C & for the present season 198.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 6.6/2.3 Knots.

Lahore

Rainfall reported as 5.0 mm during the last week, cloudiness recorded in the morning/evening as 1.6/4.0 oktas and average relative humidity 60%. Mean day temperature recorded as 38.9°C & for the present season 197.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.1/2.6 Knots.

Sargodha

Rainfall reported as 68.1 mm during the last week, cloudiness recorded in the morning/evening as 3.8/2.1 oktas and average relative humidity 51%.

Mean day temperature recorded as 38.4°C & for the present season 195.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 5.2/9.8 Knots.

Gilgit.

Rainfall reported as 1.3 mm during the last week, cloudiness recorded in the morning/evening as 4.9/5.7 oktas and average relative humidity 53%. Mean day temperature recorded as 29.4°C & for the present season 127.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/4.0 Knots.

Jhelum

Rainfall reported as 12.0 mm during the last week, cloudiness recorded in the morning/evening as 1.1/3.9 oktas and average relative humidity 61%. Mean day temperature recorded as 38.8°C & for the present season 189.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/4.3 Knots.

D.I. Khan

Rainfall reported as 6.1 mm during the last week, cloudiness recorded in the morning/evening as 1.6/3.6 oktas and average relative humidity 61%. Mean day temperature recorded as 33.9°C & for the present season 172.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.1/4.0 Knots.

Peshawar

Rainfall reported as 0.3 mm during the last week, cloudiness recorded in the morning/evening as 1.8/2.5 oktas and average relative humidity 47%. Mean day temperature recorded as 39.6°C & for the present season 199.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.4/4.1 Knots.

Murree

Rainfall reported as 7.1 mm during the last week, cloudiness recorded in the morning/evening as 1.4/2.0 oktas and average relative humidity 65%. Mean day temperature recorded as 41.5°C & for the present season 169.4 growing degree days accumulated by the

end of last week. Wind speed recorded in the morning/evening as 0.3/2.9 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, 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 at Boll Formation stage.

Northern Balochistan (Quetta)

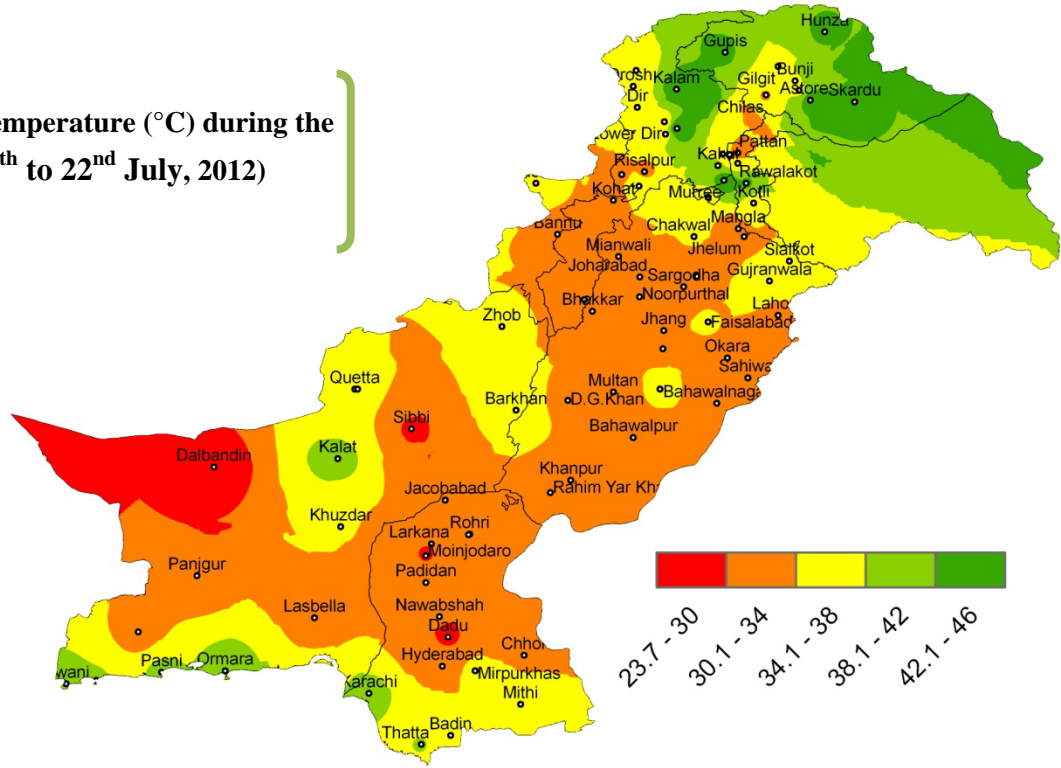
Presently no crop is grown in the fields.

Eastern Balochistan (Usta Muhammad)

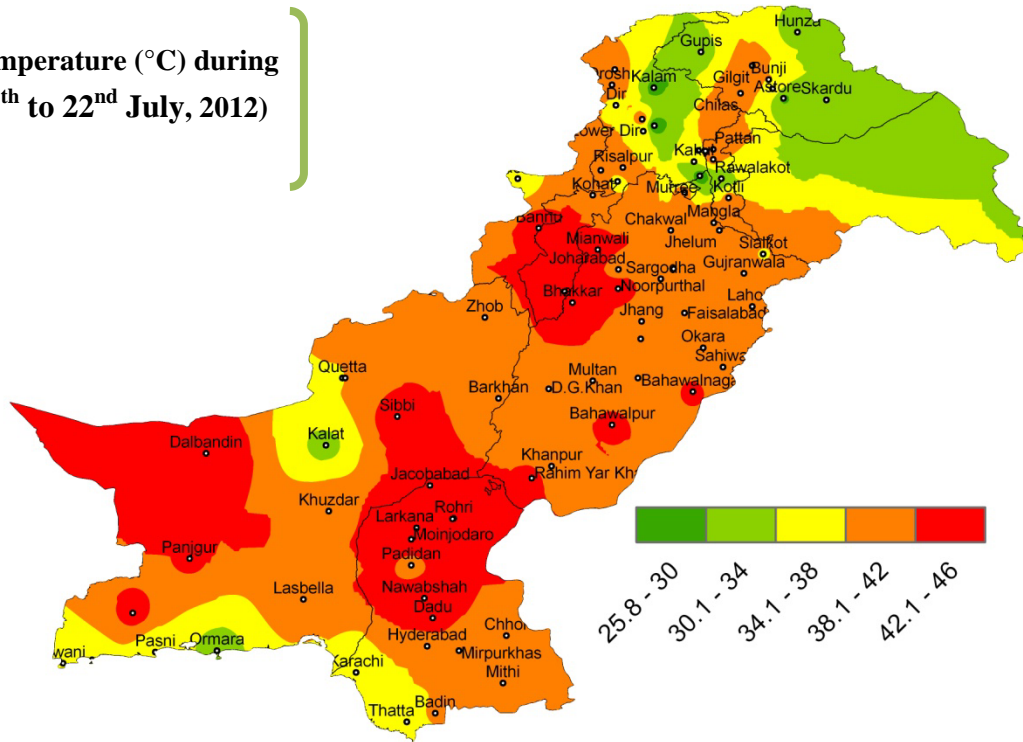
Presently one crop (Irrigated conditions) is grown at the station as detailed below:

Rice: Good condition at Third Leaf stage.

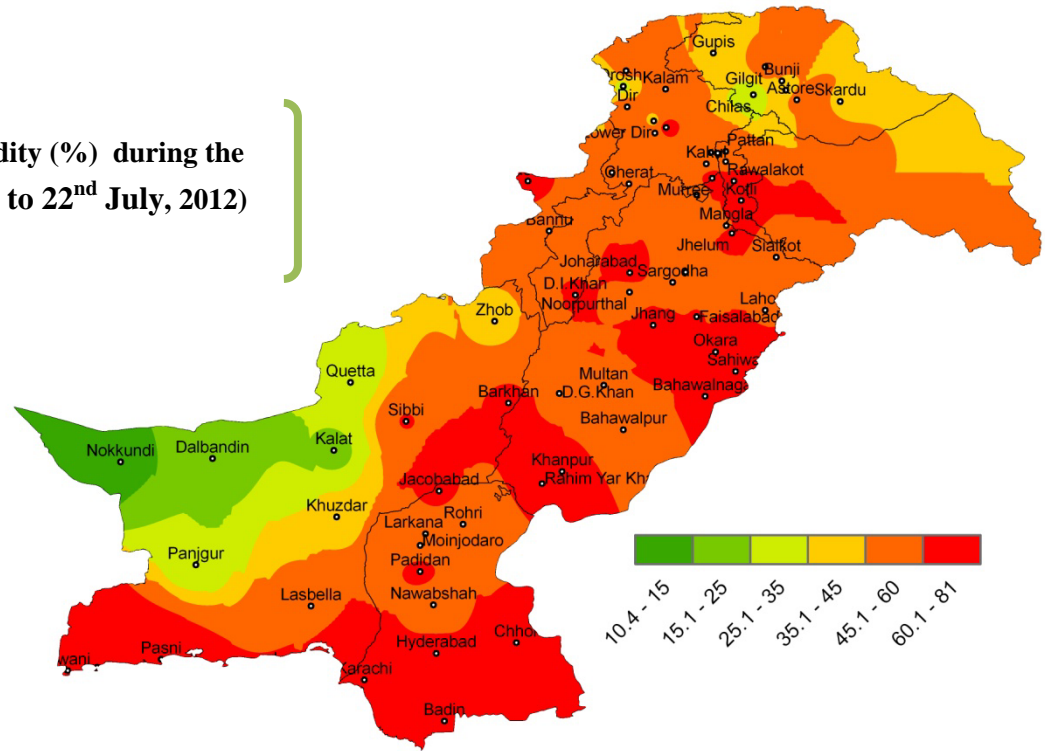
Mean maximum temperature (°C) during the last week (from 16th to 22nd July, 2012)



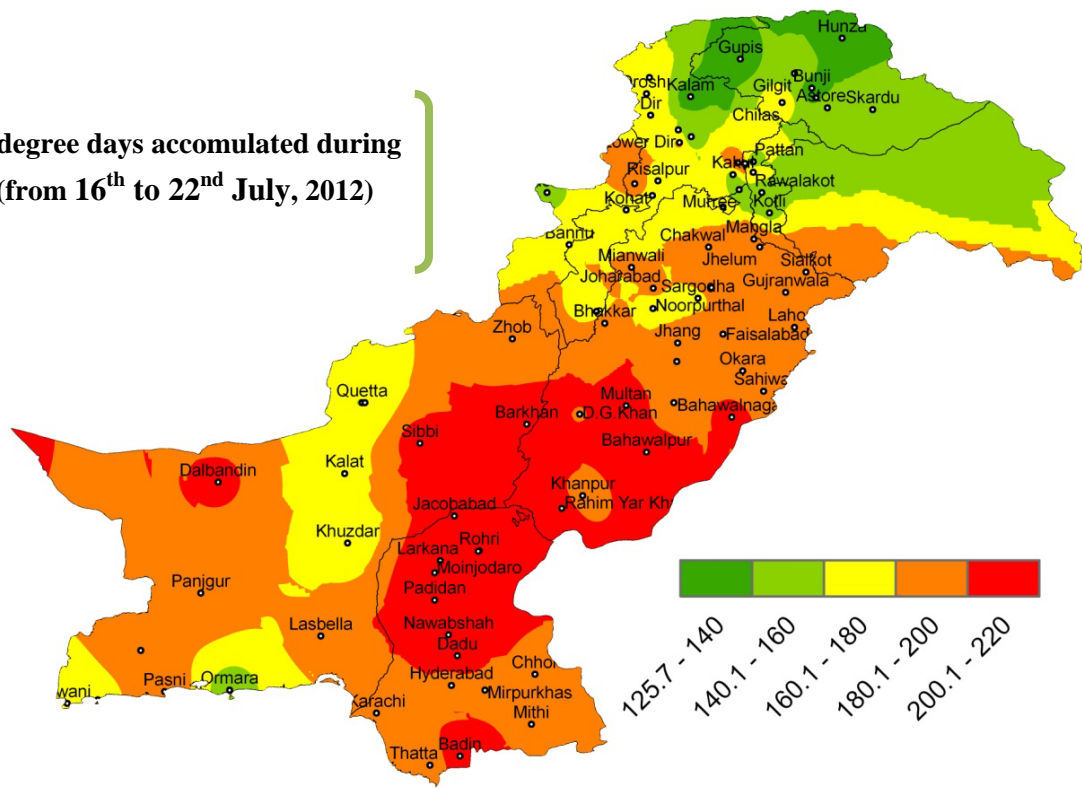
Extreme maximum temperature (°C) during the last week (from 16th to 22nd July, 2012)



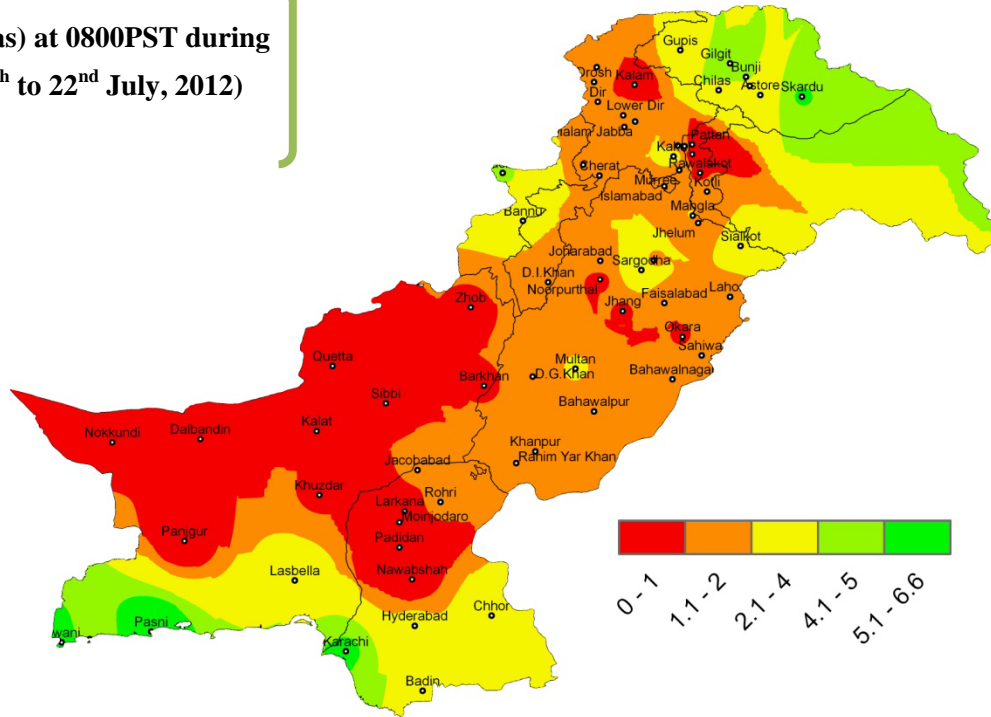
Mean relative humidity (%) during the last week (from 16th to 22nd July, 2012)



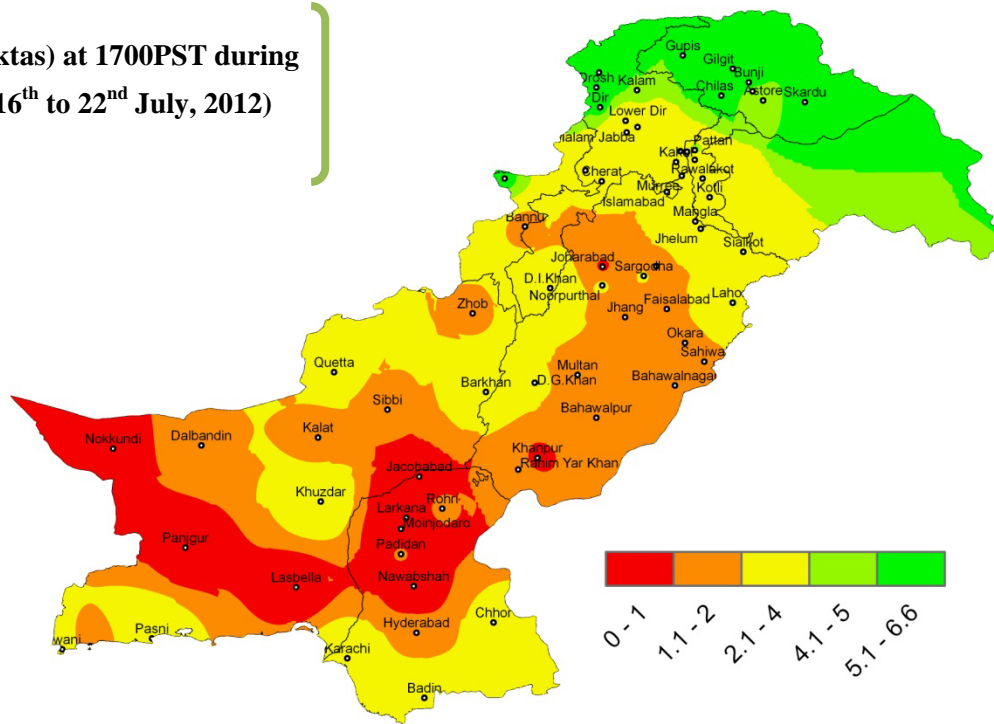
Total growing degree days accumulated during the last week (from 16th to 22nd July, 2012)



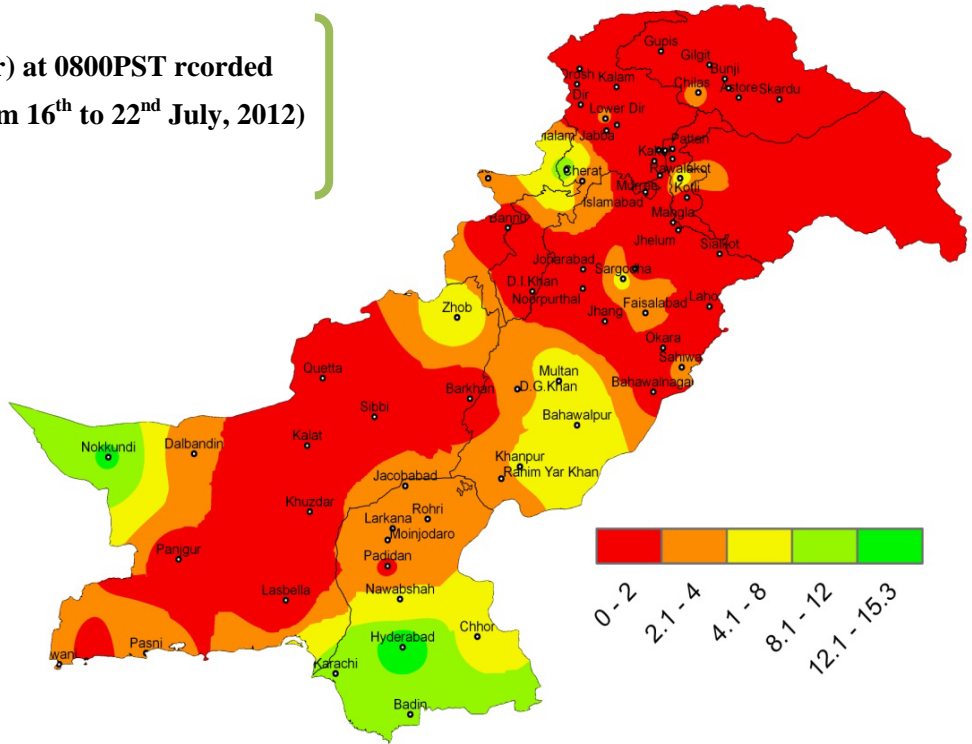
Mean Cloudiness (Oktas) at 0800PST during the last week (from 16th to 22nd July, 2012)



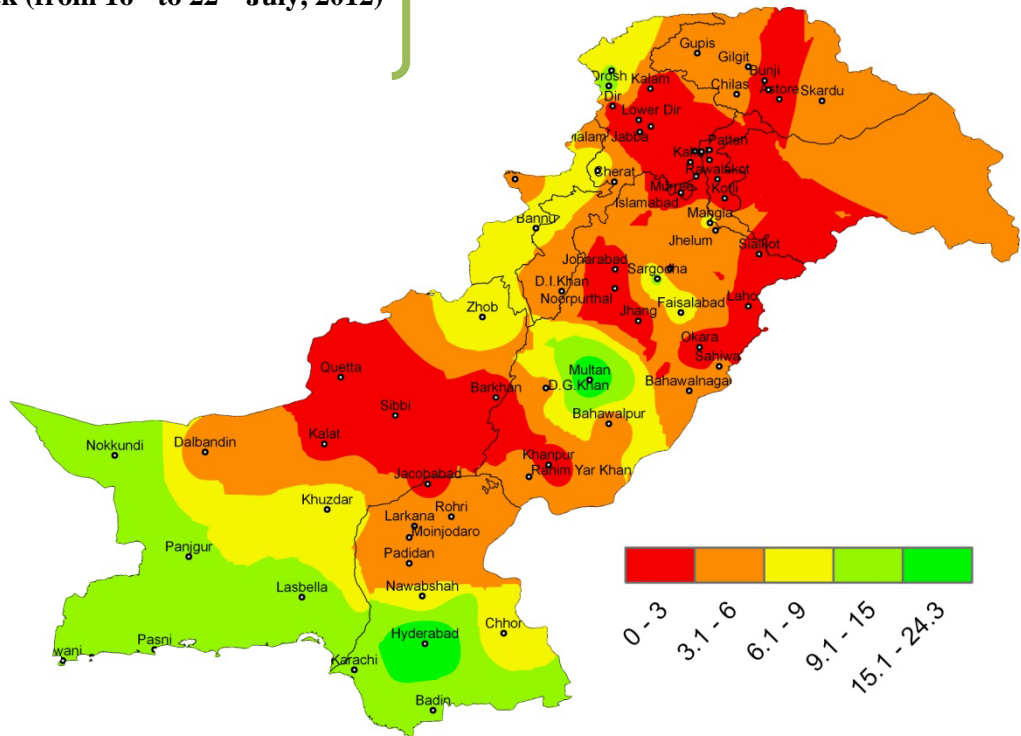
Mean Cloudiness (Oktas) at 1700PST during the last week (from 16th to 22nd July, 2012)



Mean wind speed (Km/Hr) at 0800PST rcorde
 during the last week (from 16th to 22nd July, 2012)



Mean wind speed (Km/Hr) at 1700PST rcorde
 during the last week (from 16th to 22nd July, 2012)



Weekly Weather advisory for Farmers (from 23rd to 29th July, 2012)

Seasonal low lies over Northwest Balochistan and adjoining areas with its trough extending southeastwards. Weak Monsoon currents are likely to penetrate into Upper parts of the country on Tuesday & Wednesday and likely to remain subside on Thursday & Friday. More currents of light to moderate intensity likely to penetrate in Northeastern parts of the Country on the weekend.

Punjab including Islamabad:

Mainly hot & humid weather is expected in most parts of the province. However Thundershower is expected at isolated places of Upper Punjab on Tuesday Evening/Night & Wednesday. Hot & Humid weather is expected on Thursday & Friday. Rain/Thundershower is also expected at isolated places on the weekend.

Khyber Pakhtunkhwa:

Mainly hot & humid weather is expected in most parts of the province. However Thundershower is expected at isolated places of upper KP on Tuesday Evening/Night & Wednesday.

Baluchistan:

Mainly hot and dry weather is expected in most parts of the province.

Sindh:

Mainly hot and humid weather is expected in most parts of the province.

Kashmir:

Mainly dry weather is expected in most parts of Kashmir. However Thundershower is likely at isolated places of Kashmir on Tuesday Evening/Night, Wednesday & also on the weekend.

Gilgit-Baltistan:

Mainly dry weather is expected in most parts of GB. However Rain with thunderstorm is expected at isolated places of GB from Tuesday to 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 16th July to 22nd July, 2012)

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	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

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