

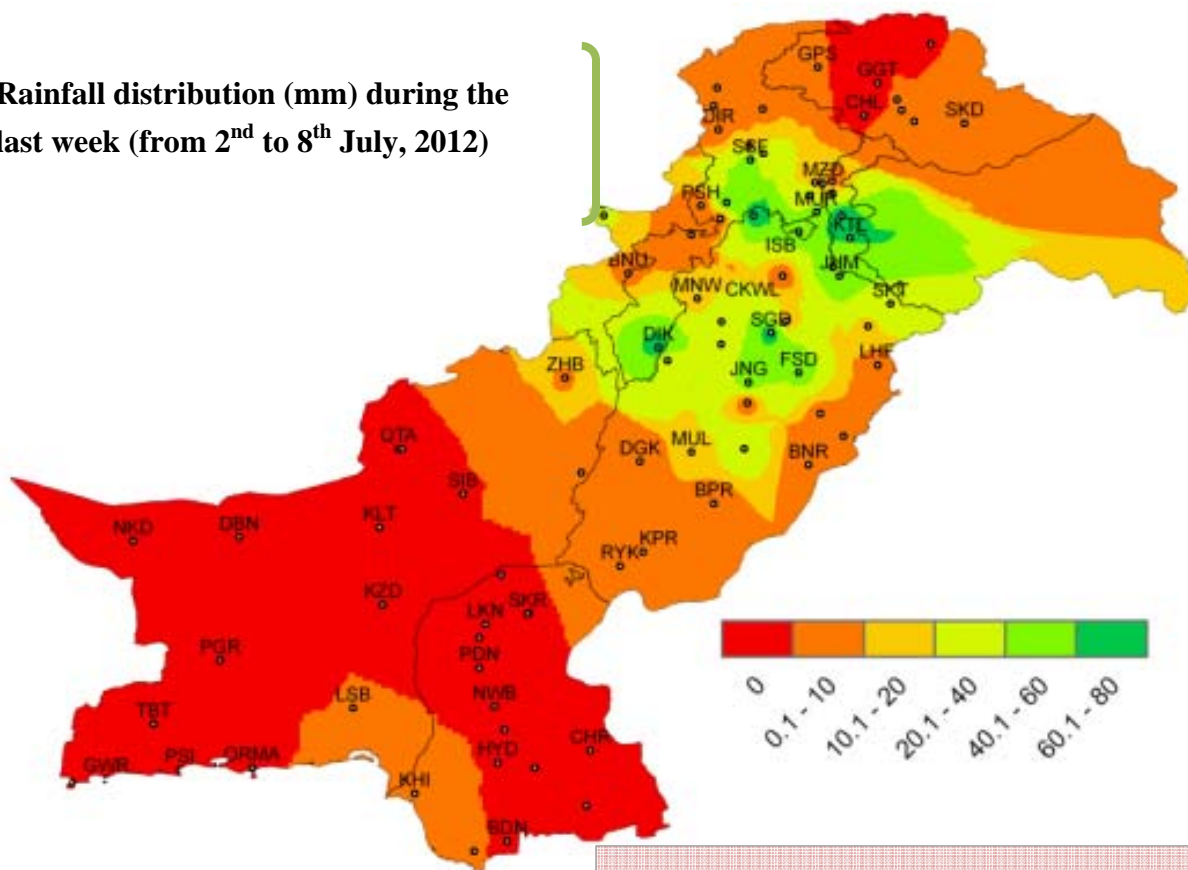
Weekly Weather and Crop Bulletin for Pakistan

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Rainfall distribution (mm) during the last week (from 2nd to 8th July, 2012)



Highlights of Past Weather (2nd to 8th July, 2012):

Monsoon rains of this season started during the last days of first week of July. Due to which light to moderate rainfall reported from most of the agricultural plains of Punjab, KPK, and Gilgit Baltistan & Kashmir during the week. Whereas dry weather/meager rain reported from the agricultural plains of 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 in the northern, eastern and central parts of the province (Fig. 1.a). Weekly maximum temperature and minimum temperature recorded as 40.2°C & 28.2°C respectively. For the present season on average 208.3 growing degree days accumulated by the end of last week. Average relative humidity recorded as 47 % wind speed recorded as 4.2 Km/hr. During the previous week the highest rainfall recorded at Sargodha as 71 mm and the extreme maximum temperature recorded at Noorpurthal as 47.7°C.

Sindh

No rainfall reported from most of the agricultural plains of the province during the week except Karachi where it recorded as 0.1 mm. Weekly maximum temperature and minimum temperature recorded as 39.8°C & 27.1 °C respectively. For the present season on average 201.6 growing degree days accumulated by the end of last week. Average relative humidity recorded as 60 % wind speed recorded as 7.4 Km/hr. During the previous week the extreme maximum temperature recorded at Dadu as 47.1°C.

Khyber Pakhtoon Khawa (KP)

Light to moderate rainfall reported from most of the agricultural plains of KP during the week, chief amount received at the places in the central to southern parts. Weekly maximum temperature and minimum temperature recorded as 37.9°C & 23.0 °C respectively. For the present season on average 206.0 growing degree days accumulated by the end of last week. Average relative humidity recorded as 50 % wind speed recorded as 4.3 Km/hr. During the previous week the highest rainfall recorded at D.I.Khan as 76 mm and the extreme maximum temperature recorded at Bannu as 47.7°C.

Balochistan

No rainfall reported from most of the agricultural plains of the province during the week except Barkhan and Zhob where light rainfall occurred. Weekly maximum temperature and minimum temperature recorded as 38.5°C & 24.7 °C respectively. For the present season in northern parts of the province, on average 165.0 growing degree days accumulated by the end of last week. Average relative humidity recorded as 46 % wind speed recorded as 6.2 Km/hr. During the previous week the highest rainfall recorded at Barkhan as 10 mm and the extreme maximum temperature recorded at Dalbandin as 47°C.

Gilgit Baltistan and Azad Jammu & Kashmir

Light to moderate rainfall reported from most of the agricultural plains of the areas in Azad Jammu & Kashmir. In Gilgit Baltistan region weekly maximum temperature and minimum temperature recorded as 36.4°C & 20.3 °C respectively. For the present season in Gilgit Baltistan region, on average 148.7 growing degree days accumulated by the end of last week. Average relative humidity recorded as 33 % wind speed recorded as 4.1 Km/hr. During the previous week the highest rainfall recorded at Rawalakot as 79.1 mm and the extreme maximum temperature recorded at Pattan as 44°C.

Past Weather for Major Agricultural Plains (2nd to 8th July, 2012)

Rawalpindi (Potohar region)

Rainfall reported as 28.5 mm during the last week, Mean cloudiness recorded as 2.4 oktas and average relative humidity 39%. Mean night temperature was 28.5°C with absolute value 23.3°C while day temperature recorded as 33.5°C with absolute value 44.0°C & for the present season 199.2 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)

No rainfall reported mm during the last week, Mean cloudiness recorded as 1.8 oktas and average relative humidity 60%. Mean night temperature was 27.0°C with absolute value 26.0°C while day temperature recorded as 32.2°C with absolute value 39.5°C & for the present season 190.5 growing degree days accumulated by the end of last week. Wind speed recorded as 3.3 Km/hr with mean direction *southerly*.

Faisalabad (Central Punjab)

Rainfall reported as 46.0 mm during the last week, Mean cloudiness recorded as 1.6 oktas and average relative humidity 49%. Mean night temperature was 30.0°C with absolute value 22.5°C while day temperature recorded as 35.0°C with absolute value 45.5°C & for the present season 209.9 growing degree days accumulated by the end of last week. Wind speed recorded as 7.2 Km/hr with mean direction *south-easterly*.

Quetta (Northern Balochistan)

No Rainfall reported during the last week. Mean night temperature was 23.6°C with absolute value 22.0°C while day temperature recorded as 28.6°C with absolute value 39.5°C & for the present season 165.0 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 46%. Mean night temperature was 28.8°C with absolute value 27.0°C while day temperature recorded as 46.1°C with absolute value 48.0°C & for the present season 205.3 growing degree days accumulated by the end of last week. Wind speed recorded as 6.2 Km/hr with mean direction *southerly*.

Past Weather for sub regional Agricultural Plains (2nd to 8th July, 2012)

Rohri

No Rainfall reported during the last week. Mean night temperature was 30.3°C with absolute value 29.3°C while day temperature recorded as 35.3°C with absolute value 45.0°C & for the present season 190.5 growing degree days accumulated by the end of last week.

Skardu

Rainfall reported 0.1 mm during the last week, Mean cloudiness recorded as 4.9 oktas and average relative humidity 27%. Mean night temperature was 19.2°C with absolute value 17.6°C while day temperature recorded as 24.2°C with absolute value 35.8°C & for the present season 134.1 growing degree days accumulated by the end of last week. Wind speed recorded as 4.9 Km/hr with mean direction *north westerly*.

Multan

Rainfall reported as 15.0 during the last week, Mean cloudiness recorded as 1.0 oktas and average relative humidity 57%. Mean night temperature was 30.7°C with absolute value 25.9°C while day temperature recorded as 35.7°C with absolute value 45.2°C & for the present season 214.9 growing degree days accumulated by the end of last week. Wind speed recorded as 1.5 Km/hr with mean direction *southerly*.

Lahore

Rainfall reported as 0.1 mm during the last week, Mean cloudiness recorded as 1.6 oktas and average relative humidity 50%. Mean night temperature was 29.1°C with absolute value 25.8°C while day temperature recorded as 34.1°C with absolute value 44.3°C & for the present season 203.5 growing degree days accumulated by the end of last week. Wind speed recorded as 5.5 Km/hr with mean direction *south-westerly*.

Sargodha

Rainfall reported as 71.0 mm during the last week, Mean cloudiness recorded as 1.5 oktas and average relative humidity 43%. Mean night temperature was 30.7°C with absolute value 25.8°C while day temperature recorded as 35.7°C with absolute value 45.5°C & for the present season 214.8 growing degree days accumulated by the end of last week. Wind speed recorded as 2.3 Km/hr with mean direction *south easterly*.

Gilgit.

No Rainfall reported during the last week, Mean cloudiness recorded as 3.7 oktas and average relative humidity 39%. Mean night temperature was 23.3°C with absolute value 22.0°C while day temperature recorded as 28.3°C with absolute value 43.0°C & for the present season 163.3 growing degree days accumulated by the end of last week. Wind speed recorded as 3.3 Km/hr with mean direction *easterly*.

Jhelum

Rainfall reported as 48.2 mm during the last week, Mean cloudiness recorded as 2.6 oktas and average relative humidity 45%. Mean night temperature was 29.1°C with absolute value 23.2°C while day temperature recorded as 34.1°C with absolute value 45.0°C & for the present season 204.0 growing degree days accumulated by the end of last week. Wind speed recorded as 6.5 Km/hr with mean direction *south easterly*.

D.I. Khan

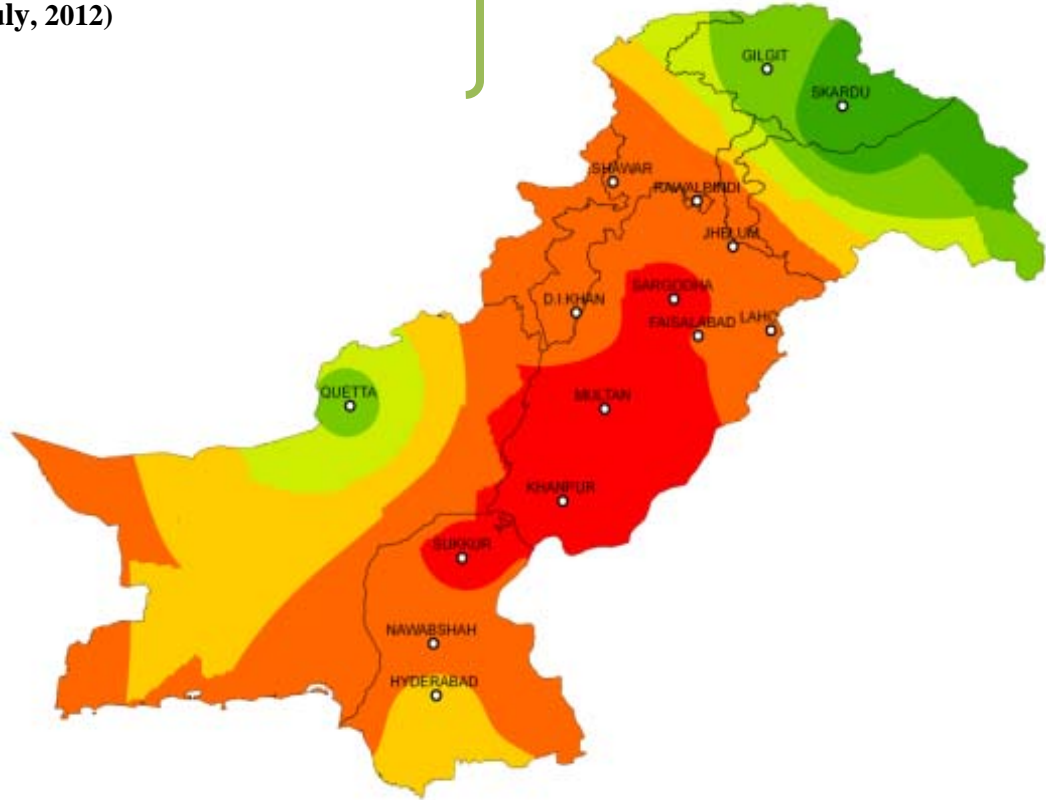
Rainfall reported as 76.0 mm during the last week, Mean cloudiness recorded as 1.7 oktas and average

relative humidity 50%. Mean night temperature was 29.4°C with absolute value 21.8°C while day temperature recorded as 34.4°C with absolute value 46.0°C & for the present season 205.5 growing degree days accumulated by the end of last week. Wind speed recorded as 4.3 Km/hr with mean direction *north easterly*.

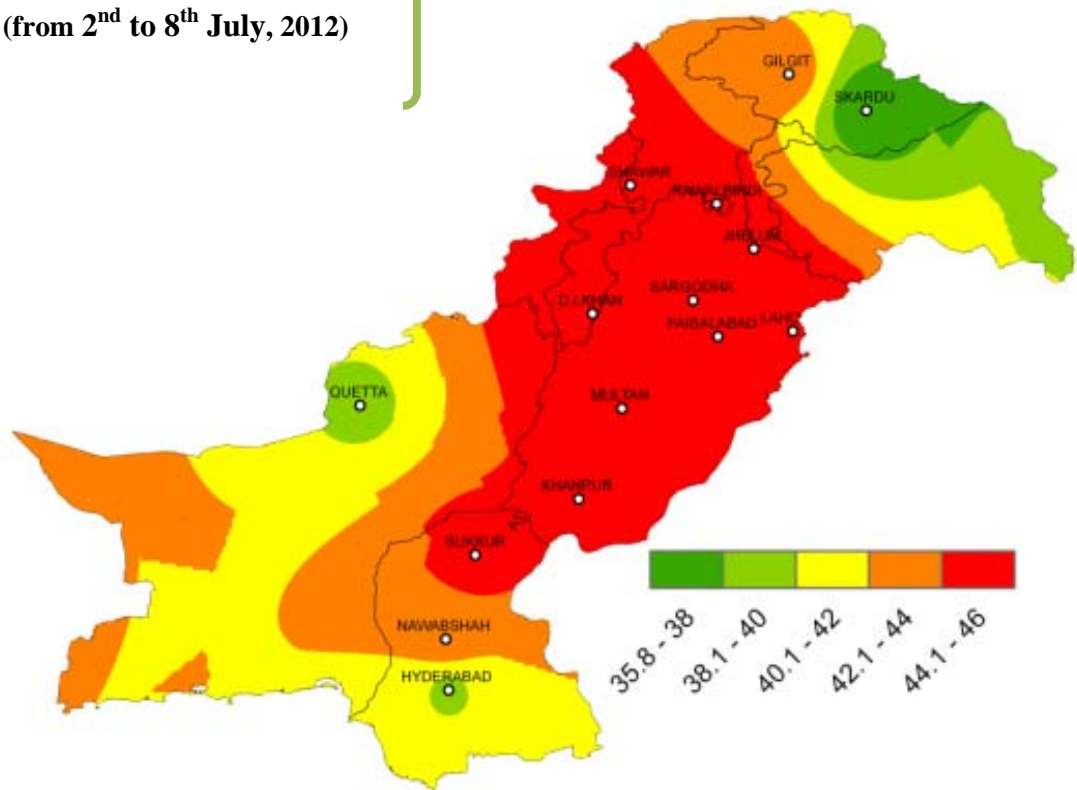
Peshawar

Rainfall reported as 0.1 mm during the last week, mean cloudiness recorded as 1.7 oktas. Mean night temperature was 29.5°C with absolute value 25.5°C while day temperature recorded as 34.5°C with absolute value 44.5°C & for the present season 206.5 growing degree days accumulated by the end of last week. Mean wind direction *northwesterly*.

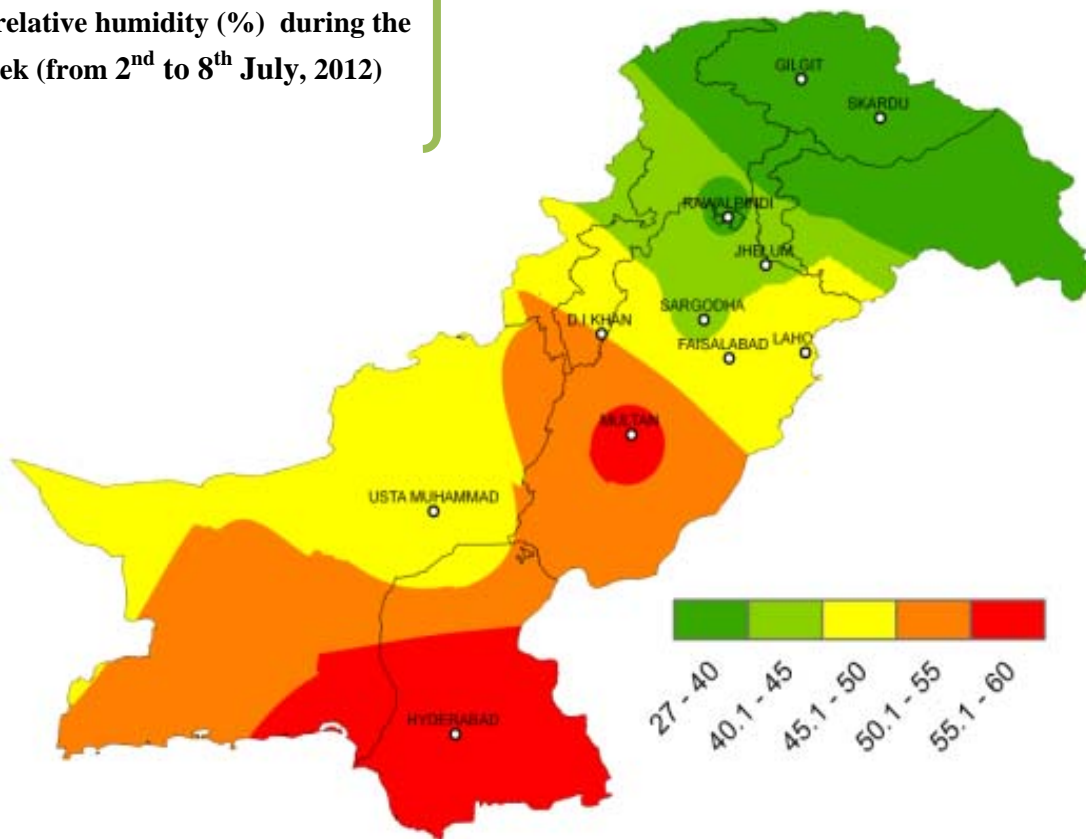
Mean maximum temperature (°C) during the last week
(from 2nd to 8th July, 2012)



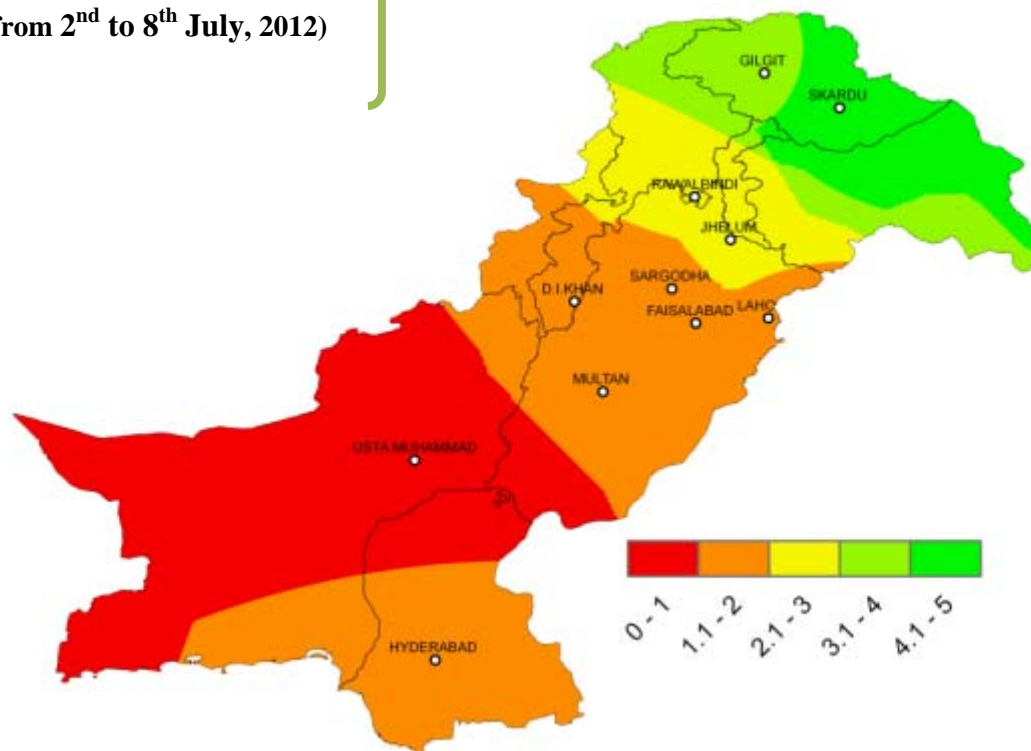
Extreme maximum temperature (°C) during
the last week (from 2nd to 8th July, 2012)



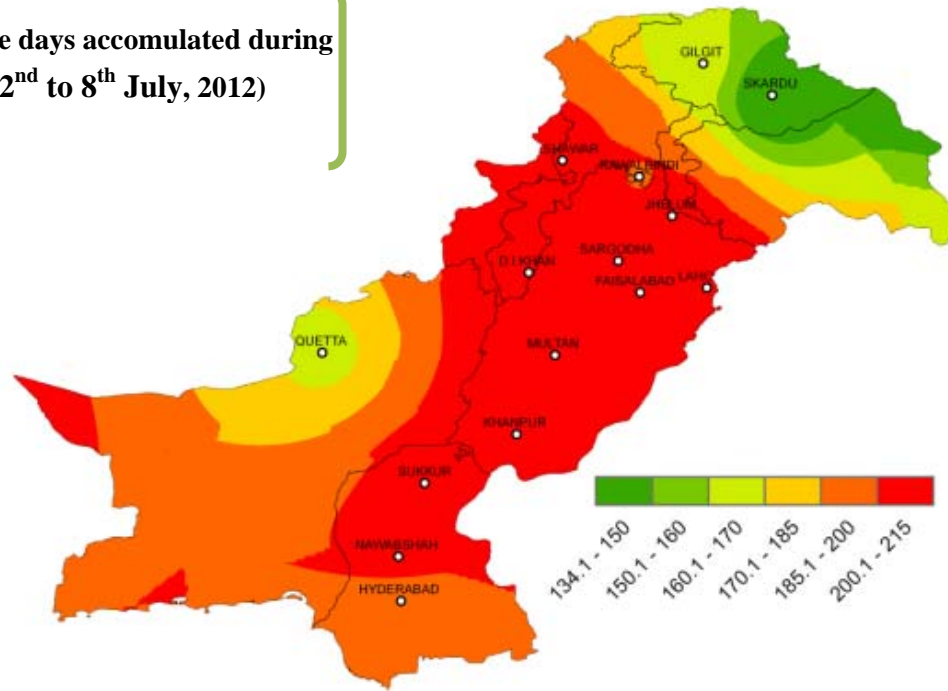
Mean relative humidity (%) during the last week (from 2nd to 8th July, 2012)



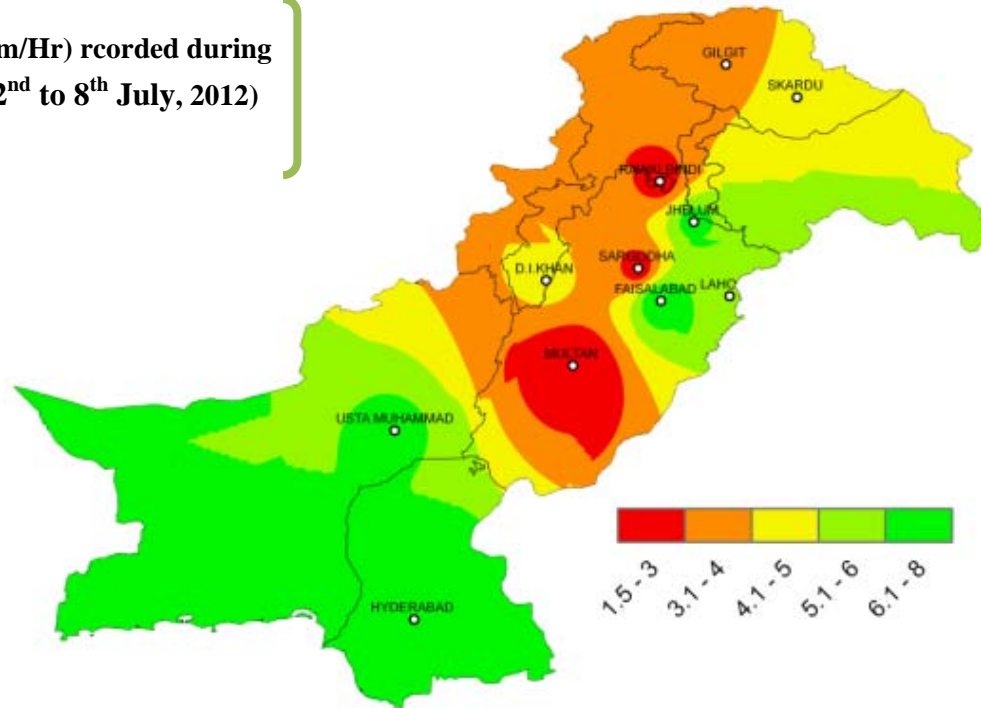
Mean cloudiness (oktas) during the last week (from 2nd to 8th July, 2012)



Total growing degree days accumulated during the last week (from 2nd to 8th July, 2012)



Mean wind speed (Km/Hr) recorded during the last week (from 2nd to 8th July, 2012)



National Weather Data of Selected Cities
(Weekly data from 2nd July to 8th July, 2012)

Stations	Temperature (°C)				Growing Deg. Days	Relative Humidity (%)	Rainfall (mm)	Cloudiness (Oktas)
	Tmin*	Tmin (Lowest)	Tmax**	Tmax (Highest)				
Faisalabad	30.0	22.5	35.0	45.5	209.9	49.0	46.0	1.6
Rawalpindi	28.5	23.3	33.5	44.0	199.2	39.0	48.0	2.4
Lahore	29.1	25.8	34.1	44.3	203.5	50.0	0.1	1.6
Jhelum	29.1	23.2	34.1	45.0	204.0	45.0	48.2	2.6
Multan	30.7	25.9	35.7	45.2	214.9	57.0	15.0	1.0
Sargodha	30.7	25.8	35.7	45.5	214.8	43.0	71.0	1.5
Rohri	30.3	29.3	35.3	45.0	206.5	***	0.0	***
Tandojam	30.3	26.5	32.2	39.5	190.5	60.0	0.0	1.8
Quetta	23.6	22.0	28.6	39.5	165.0	***	0.0	***
Gilgit	23.3	22.0	28.3	43.0	163.3	39.0	0.0	3.7
Skardu	19.2	17.6	24.2	35.8	134.1	27.0	0.1	4.9
D. I. Khan	29.4	21.8	34.4	46.0	205.5	50.0	76.0	1.7
Peshawar	29.5	25.5	34.5	44.5	206.5	***	0.1	***

*Tmin; stands for minimum temperature

**Tmax; stands for maximum temperature

***Data not available

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.

Lower Sindh (Tandojam)

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

Cotton (BT-886): Good condition at Flowering 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 is nearly completed.

Weekly Weather advisory for Farmers (from 9th to 15th July, 2012)

Temperature Forecast

Day time temperatures are expected to remain normal or slightly below normal by 1-2°C in central and northern sub-mountainous areas of Punjab, Gilgit Baltistan, Kashmir and KPK. Whereas it is expected to be normal or slightly above normal in most of the agricultural plains of southern Punjab, Sindh and Balochistan.

Rain Forecast:

Punjab including Islamabad:

Intermittent thundershower is expected at isolated of places Islamabad/Rawalpindi, Gujranwala, Lahore, Sargodha, Faisalabad and Bahawalpur divisions from Tuesday to Thursday. While scattered Thundershower with isolated heavy falls over upper and central Punjab (Islamabad/Rawalpindi, Gujranwala, Lahore, Sargodha, Faisalabad, and Sahiwal divisions) from Friday to Monday.

Khyber Pakhtoonkhwa:

Intermittent thundershower is expected at isolated of places of KP from Tuesday to Thursday. While scattered thundershower is likely over upper and central KP from Friday to Monday.

Balochistan:

Mainly hot and dry weather is expected in most parts of the province, however rain/dust-thunderstorm is likely at isolated places of Northeast Baluchistan on Wednesday.

Sindh:

Mainly hot and humid weather is expected in most parts of the province, however rain/dust-thunderstorm is likely at isolated places of lower Sindh from Tuesday (evening/night) and Wednesday.

Kashmir:

Intermittent thundershower is likely at scattered places of Kashmir on Tuesday to Thursday. Scattered thundershower with few heavy falls expected in Kashmir from Friday to Monday.

Gilgit-Baltistan:

Isolated rain/thunderstorm is likely at isolated places of Gilgit-Baltistan during the next 24 hours. More rain is expected at isolated places in Gilgit-Baltistan from Friday to Monday.

Wind Forecast:

Gusty winds may prevail occasionally in the monsoon belt and adjoining areas in the upper half of the country mostly during the week.

Advises for Crops:

Cotton/Sugarcane: Farmers of cotton belt are advised to manage irrigation practices due to predicted monsoon rains during the decade.

General Information: Farmers of rainfed areas, obtaining crop water through tube wells are also advised to schedule the irrigation according to the expected weather mentioned above during the week. Also farmers are advised to keep control on post-harvesting losses due to pests/insects & hot/moist monsoon season. Expected rise in day time temperature and heat waves during most of the days in the decade may increase water discharge in the river and canals of the country. Which may ultimately rise canal water for standing Kharif crops in the coming days.

Precautionary Measures for Animals Care:

In central-southern Punjab, 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.

In central-southern Punjab, Sindh and southern Balochistan provide plenty of water to poultry birds to meet the increasing requirement of water. Change the water frequently to provide cool water. Sprinkling of water around the shed, more green area surrounding this shed is helpful in reduction of heat effects.

White washing of poultry shed from outside will be helpful in reflecting the sun rays back from the shed. Increase protein, minerals and vitamins in feed as the feed intake is reduced during summer. Proper vaccination schedule must be followed.