

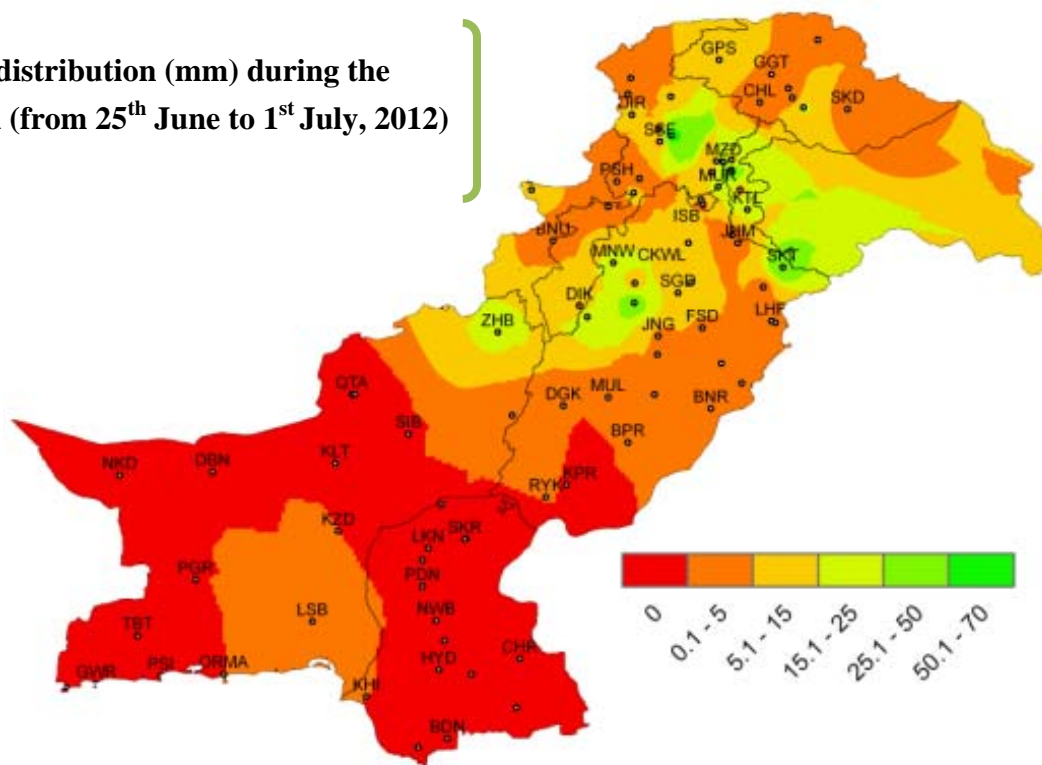
Weekly Weather and Crop Bulletin for Pakistan

**NATIONAL AGROMET CENTRE (NAMC)
PAKISTAN METEOROLOGICAL DEPARTMENT
SECTOR H-8/2, ISLAMABAD**

Phone: +92-51-9250592

email: dirnamc@yahoo.com

Rainfall distribution (mm) during the last week (from 25th June to 1st July, 2012)



Highlights of Past Weather (25th June to 1st July, 2012):

Light to moderate rain reported from most of the agricultural plains of northern-central Punjab, KPK, Northern & coastal parts of Balochistan, Gilgit Baltistan & Kashmir during the week. However mainly dry weather is reported from the agricultural plains of Sindh, central-western Balochistan and isolated places in the southern Punjab.

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Punjab

Light to moderate rainfall reported from most of the agricultural plains of Punjab during the decade, chief amount received at isolated places in the northern, eastern and western parts of the province (Fig. 1.a). Weekly maximum temperature and minimum temperature recorded as 40.9°C & 27.1 °C respectively. For the present season on average 206.4 growing degree days accumulated by the end of last week. Average relative humidity recorded as 39 % wind speed recorded as 4.9 Km/hr. During the previous week the extreme maximum temperature recorded at Lahore as 46°C.

Sindh

No rainfall reported from most of the agricultural plains of the province during the week. Weekly maximum temperature and minimum temperature recorded as 40.2°C & 27.7 °C respectively. For the present season on average 202.4 growing degree days accumulated by the end of last week. Average relative humidity recorded as 48 % wind speed recorded as 8.8 Km/hr. During the previous week the extreme maximum temperature recorded at Dadu as 45.8°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 northeastern parts. Weekly maximum temperature and minimum temperature recorded as 36.9°C & 20.3 °C respectively. For the present season on average 201.1 growing degree days accumulated by the end of last week. Average relative humidity recorded as 39 % wind speed recorded as 3.6 Km/hr. During the previous week the highest rainfall recorded at Malamjabba as 71 mm and the extreme maximum temperature recorded at Kohat as 46°C.

Balochistan

Light to moderate rainfall reported from places of the agricultural plains located in the northern and

coastal belt the province, in rest of the area weather remained totally dry. Weekly maximum temperature and minimum temperature recorded as 37.3°C & 23.7 °C respectively. For the present season in northern parts of the province, on average 148.5 growing degree days accumulated by the end of last week. Average relative humidity recorded as 26 % wind speed recorded as 5.7 Km/hr. During the previous week the extreme maximum temperature recorded at Turbat as 47°C.

Gilgit Baltistan and Azad Jammu & Kashmir

Light rainfall reported from most of the agricultural plains of the region especially the areas in Azad Jammu & Kashmir. In Gilgit Baltistan region weekly maximum temperature and minimum temperature recorded as 32.1°C & 17.2 °C respectively. For the present season in Gilgit Baltistan region, on average 113.4 growing degree days accumulated by the end of last week. Average relative humidity recorded as 41 % wind speed recorded as 7.7 Km/hr. During the previous week the extreme maximum temperature recorded at Muzaffarabad as 44.2°C.

Past Weather for Major Agricultural Plains (25th June to 1st July, 2012)

Rawalpindi (Potohar region)

Rainfall reported as 3.1 mm during the last week, Mean cloudiness recorded as 2.6 oktas and average relative humidity 27%. Mean night temperature was 27.2°C with absolute value 22°C while day temperature recorded as 41.6°C with absolute value 43.0°C & for the present season 195.1 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 during the last week, Mean cloudiness recorded as 0.3 oktas and average relative humidity 61%. Mean night temperature was 27.0°C with absolute value 26.0°C while day temperature recorded as 37.7°C with absolute value 38.0°C & for the present season 191.2 growing degree days accumulated by the end of last week. Wind speed recorded as 9.1 Km/hr with mean direction *southerly*.

Faisalabad (Central Punjab)

Rainfall reported as 4.0 mm during the last week, Mean cloudiness recorded as 1.9 oktas and average relative humidity 44%. Mean night temperature was 27.5°C with absolute value 23.5°C while day temperature recorded as 41.1°C with absolute value 43.5°C & for the present season 204.9 growing degree days accumulated by the end of last week. Wind speed recorded as 6.8 Km/hr with mean direction *south-easterly*.

Quetta (Northern Balochistan)

No Rainfall reported during the last week, Mean cloudiness recorded as 1.6 oktas and average relative humidity 18%. Mean night temperature was 17.0°C with absolute value 16.0°C while day temperature recorded as 34.8°C with absolute value 37.5°C & for the present season 148.5 growing degree days accumulated by the end of last week. Wind speed recorded as 6.3 Km/hr with mean direction *north westerly*.

Usta Muhammad (Eastern Balochistan)

No Rainfall reported during the last week, Mean cloudiness recorded as 0.2 oktas and average relative humidity 33%. 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 0.2 Km/hr with mean direction *southerly*.

Past Weather for sub regional Agricultural Plains (25th June to 1st July, 2012)

Rohri

No Rainfall reported during the last week, Mean cloudiness recorded as 0.7 oktas and average relative humidity 27%. Mean night temperature was 28.4°C with absolute value 27.0°C while day temperature recorded as 43.5°C with absolute value 44.0°C & for the present season 211.4 growing degree days accumulated by the end of last week. Wind speed recorded 5.5 Km/hr with mean direction *southerly*.

Skardu

Rainfall reported 1.3 mm during the last week, Mean cloudiness recorded as 5.3 oktas and average relative humidity 37%. Mean night temperature was 17.9°C with absolute value 10.0°C while day temperature recorded as 26.9°C with absolute value 31.6°C & for the present season 100.5 growing degree days accumulated by the end of last week. Wind speed recorded as 9.3 Km/hr with mean direction *north westerly*.

Multan

No Rainfall reported during the last week, Mean cloudiness recorded as 1.9 oktas and average relative humidity 45%. Mean night temperature was 29.6°C with absolute value 26.7°C while day temperature recorded as 40.6°C with absolute value 42.2°C & for the present season 210.6 growing degree days accumulated by the end of last week. Wind speed recorded as 7.1 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 38%. Mean night temperature was 28.1°C with absolute value 26.3°C while day temperature recorded as 41.2°C with absolute value 43.3°C & for the present season 207.6 growing degree days accumulated by the end of last week. Wind speed recorded as 3.9 Km/hr with mean direction *south-westerly*.

Sargodha

Rainfall reported as 12.1 mm during the last week, Mean cloudiness recorded as 1.9 oktas and average relative humidity 43%. Mean night temperature was 28.3°C with absolute value 27.5°C while day temperature recorded as 41.6°C with absolute value 44.0°C & for the present season 207.0 growing degree days accumulated by the end of last week. Wind speed recorded as 4.2 Km/hr with mean direction *south easterly*.

Gilgit.

Rainfall reported as 5.1 mm during the last week, Mean cloudiness recorded as 5.6 oktas and average relative humidity 45%. Mean night temperature was 14.9°C with absolute value 13.5°C while day temperature recorded as 31.4°C with absolute value 37.0°C & for the present season 126.8 growing degree days accumulated by the end of last week. Wind speed recorded as 3.7 Km/hr with mean direction *easterly*.

Jhelum

Rainfall reported as 1.0 mm during the last week, Mean cloudiness recorded as 2.6 oktas and average relative humidity 30%. Mean night temperature was 27.3°C with absolute value 26.0°C while day temperature recorded as 42.7°C with absolute value 45.5°C & for the present season 210.2 growing degree days accumulated by the end of last week. Wind speed recorded as 4.9 Km/hr with mean direction *south easterly*.

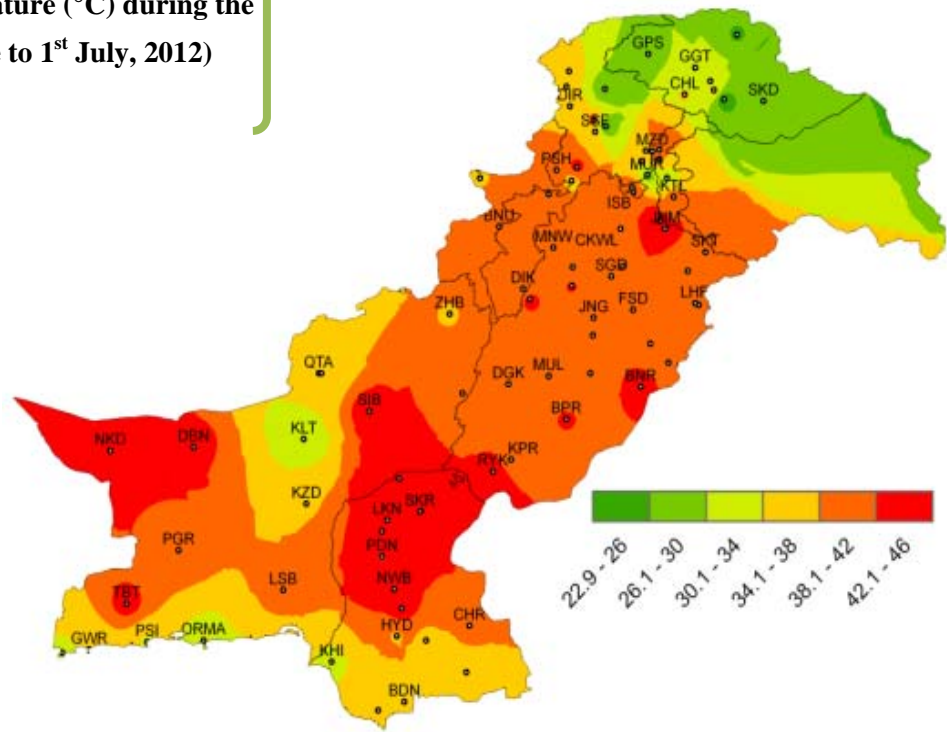
D.I. Khan

Rainfall reported as 3.2 mm during the last week, Mean cloudiness recorded as 0.9 oktas and average relative humidity 41%. Mean night temperature was 26.6°C with absolute value 25.0°C while day temperature recorded as 41.2°C with absolute value 44.0°C & for the present season 202.3 growing degree days accumulated by the end of last week. Wind speed recorded as 4.6 Km/hr with mean direction *north easterly*.

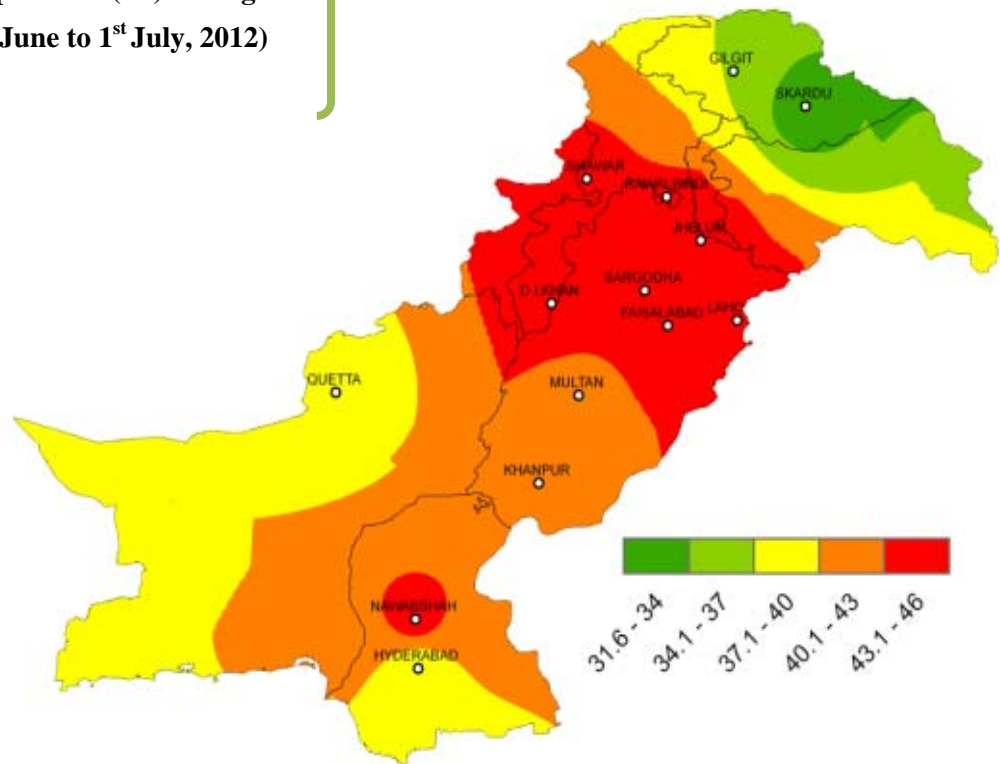
Peshawar

No Rainfall reported during the last week, mean cloudiness recorded as 6.2 oktas and average relative humidity 36%. Mean night temperature was 24.7°C with absolute value 23.8°C while day temperature recorded as 40.6°C with absolute value 43.5°C & for the present season 200.0 growing degree days accumulated by the end of last week. Wind speed recorded as 2.6 Km/hr with mean direction *northwesterly*.

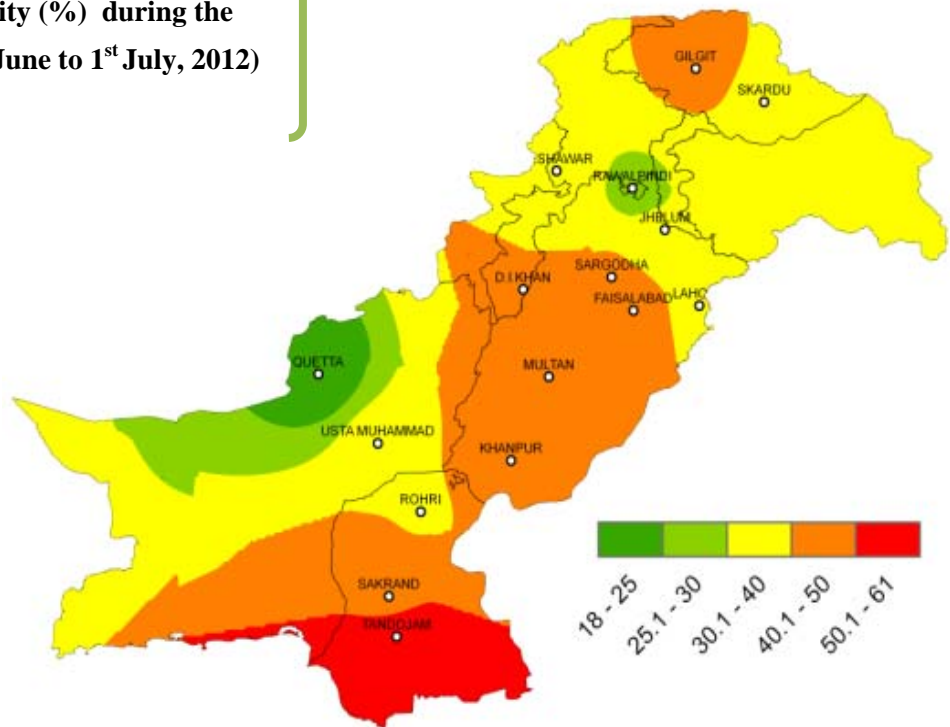
Mean maximum temperature (°C) during the last week (from 25th June to 1st July, 2012)



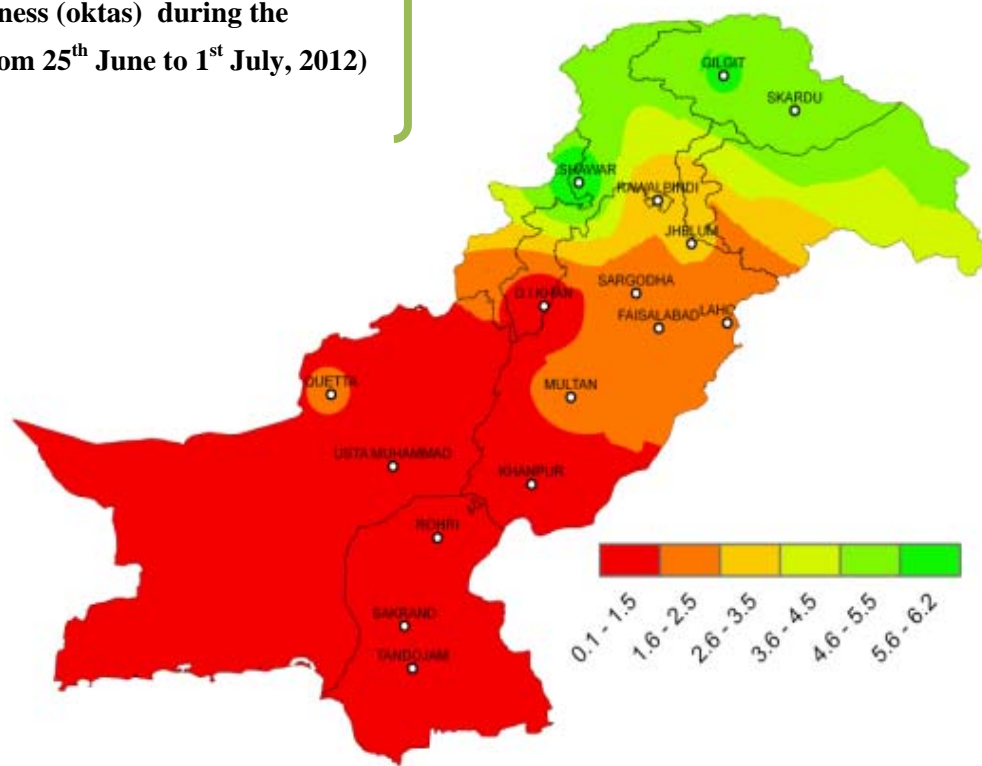
Extreme maximum temperature (°C) during the last week (from 25th June to 1st July, 2012)



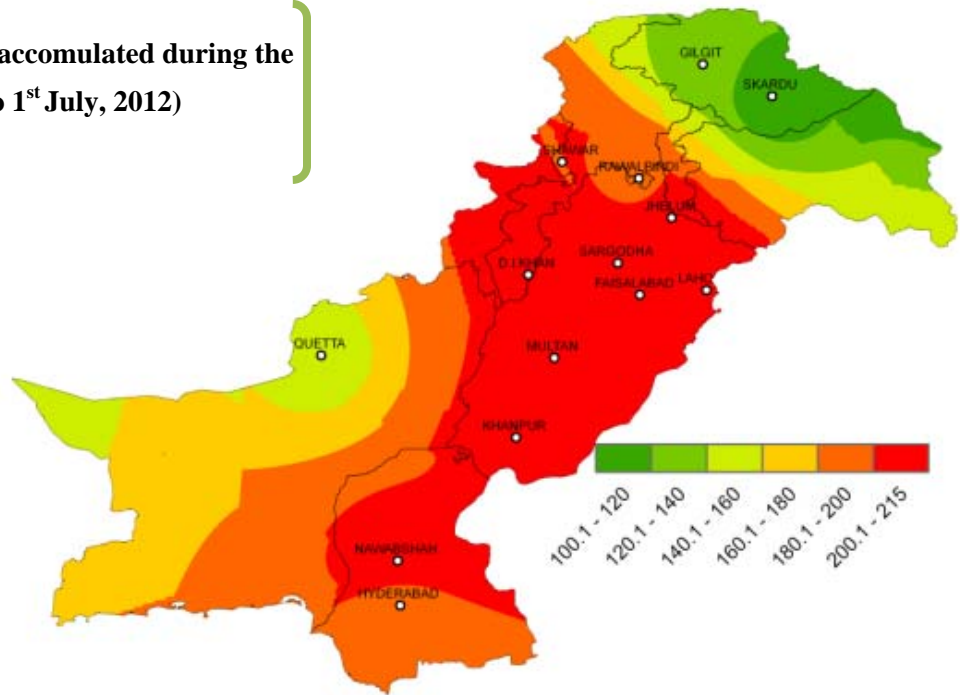
Mean relative humidity (%) during the last week (from 25th June to 1st July, 2012)



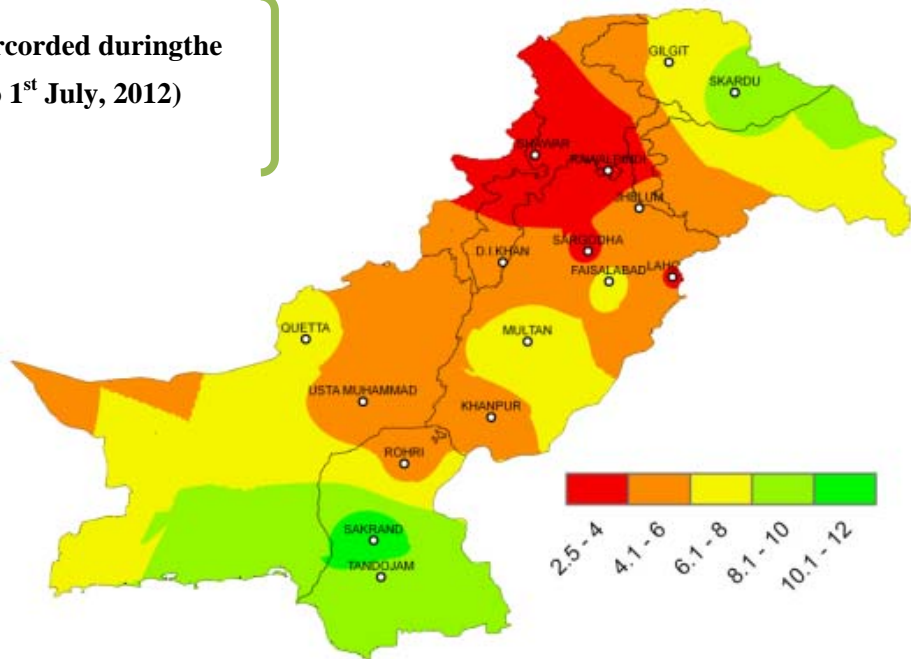
Mean cloudiness (oktas) during the last week (from 25th June to 1st July, 2012)



Total growing degree days accumulated during the last week (from 25th June to 1st July, 2012)



Mean wind speed (Km/Hr) recorded during the last week (from 25th June to 1st July, 2012)



National Weather Data of Selected Cities
(Weekly data from 25th June to 1st July, 2012)

Stations	Temperature (°C)				Growing Deg. Days	Relative Humidity (%)	Rainfall (mm)	Cloudiness (Oktas)
	Tmin*	Tmin (Lowest)	Tmax**	Tmax (Highest)				
Faisalabad	27.5	23.5	41.1	43.5	204.9	44.0	4.0	1.9
Rawalpindi	27.2	22.0	41.6	43.0	195.1	27.0	3.1	2.6
Lahore	28.1	26.3	41.2	43.3	207.6	38.0	0.1	1.6
Jhelum	27.3	26.0	42.7	45.5	210.2	30.0	1.0	2.6
Multan	29.6	26.7	40.6	42.2	210.6	45.0	0.0	1.9
Sargodha	28.3	27.5	41.6	44.0	207.0	43.0	12.1	2.2
Rohri	28.4	27.0	43.5	44.0	211.4	27.0	0.0	0.7
Tandojam	27.0	26.0	37.7	38.0	191.2	61.0	0.0	0.3
Sakrand	21.9	18.5	40.6	41.5	211.5	43.0	0.0	0.4
Quetta	17.0	16.0	34.8	37.5	148.5	18.0	0.0	1.6
Usta Muhammad	28.8	27.0	46.1	48.0	205.3	33.0	0.0	0.2
Gilgit	14.9	13.5	31.4	37.0	126.8	45.0	5.1	5.6
Skardu	17.9	10.0	26.9	31.6	100.5	37.0	1.3	5.3
D. I. Khan	26.6	25.0	41.2	44.0	202.3	41.0	3.2	0.9
Peshawar	24.7	23.8	40.6	43.5	200.0	36.0	0.0	6.2

*Tmin; stands for minimum temperature

**Tmax; stands for maximum temperature

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 Budding 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 2nd to 8th July, 2012)

Temperature Forecast

Day time temperatures expected to rise during first 4-5 days over central & upper parts of Punjab, Southern KPK and Eastern Balochistan and approach to normal/below normal during rest of the period in agricultural plains of the country.

Rain Forecast

Punjab: Mainly dry weather is expected during first 4-5 days of the week. However isolated to scattered rain/thundershower is expected in upper & central agricultural plains of the province during rest of the period.

Khyber Pakhtoonkhawa: Mainly dry weather is expected during first 4-5 days of the week. However in rest of the period isolated to scattered rain/thundershower is expected in upper & central agricultural plains of the province.

Sindh: Mainly dry weather is expected during the week. However light rain/dust thunderstorm is expected in coastal areas of Sindh during 5th to 7th July.

Balochistan: Mainly dry weather is expected during the week. However rain/dust-thunderstorm is expected at isolated places of Northern & Eastern Balochistan from 8th July.

Gilgit-Baltistan & Kashmir: Mainly dry weather is expected during first 4-5 days of week. However rain/thundershower is expected at Gilgit-Baltistan & Kashmir from 5th July.

Wind Forecast

Gusty winds may prevail occasionally in the monsoon belt and adjoining areas in the upper half of the country from 6th of July.

Advises for Crops:

Cotton/Sugarcane: Farmers of cotton belt are advised to manage irrigation practices in accordance with the predicted monsoon rains during the week.

General Information: 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.

There is possibility of attack of heat stroke in animals due to prevailing high day temperature in southern parts of the country. Hence, animals should be protected against intense heat and should not be allowed to be exposed in sunlight during noon and may be provided with plenty of water for drinking.

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.