

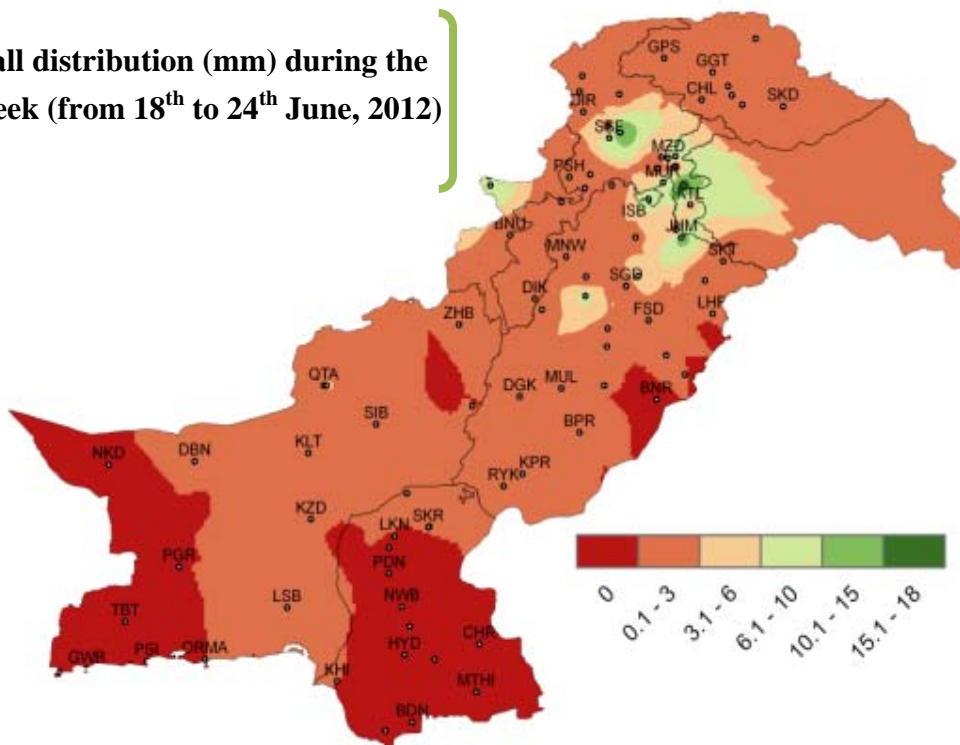
Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall distribution (mm) during the
last week (from 18th to 24th June, 2012)**



Highlights of Past Weather (18th to 24th June, 2012):

Light rain reported from most of the agricultural plains of northern Punjab, KPK, Northern Balochistan, Gilgit Baltistan & Kashmir during the week. However mainly dry weather is reported from the agricultural plains of Sindh and western Balochistan.

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Punjab

Light rainfall reported from most of the agricultural plains of Punjab during the week, chief amount received at the places in the north especially in Potohar (Fig. 1.a). Weekly maximum temperature and minimum temperature recorded as 36.3°C & 20.6 °C respectively with absolute values 39.0°C & 17.0°C respectively. For the present season on average 191.4 growing degree days accumulated by the end of last week. Average relative humidity recorded as 34 % wind speed recorded as 6.8 Km/hr. During the previous week the highest rainfall recorded at Gujranwala as 3 mm and the extreme maximum temperature recorded at Bhakhar as 48°C.

Sindh

No rainfall reported from most of the agricultural plains of the province during the week, except few places located in the north of the province. Weekly maximum temperature and minimum temperature recorded as 41.0°C & 23.6 °C respectively with absolute values 42.7°C & 20.8°C respectively. For the present season on average 211.8 growing degree days accumulated by the end of last week. Average relative humidity recorded as 34 % wind speed recorded as 6.9 Km/hr. During the previous week the highest rainfall recorded at Karachi (Airport) as 1 mm and the extreme maximum temperature recorded at Larkana as 48.5°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 and western parts. Weekly maximum temperature and minimum temperature recorded as 35.8°C & 21.1 °C respectively with absolute values 39.0°C & 17.5°C respectively. For the present season on average 194.2 growing degree days accumulated by the end of last week. Average relative humidity recorded as 41 % wind speed recorded as 8.5 Km/hr. During the previous week the highest rainfall recorded at Kalam as 14 mm

and the extreme maximum temperature recorded at Risalpur as 46.5°C.

Balochistan

Light rainfall reported from most of the agricultural plains of the province except the western parts where weather remained totally dry. Weekly maximum temperature and minimum temperature recorded as 33.7°C & 16.2 °C respectively with absolute values 36.2°C & 14.0°C respectively. For the present season on average 174.6 growing degree days accumulated by the end of last week. Average relative humidity recorded as 32 % wind speed recorded as 5.5 Km/hr. During the previous week the highest rainfall recorded at Lasbella as 13 mm and the extreme maximum temperature recorded at Sibbi as 48.5°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 25.2°C & 8.6 °C respectively with absolute values 27.9°C & 6.4°C respectively. For the present season on average 118.4 growing degree days accumulated by the end of last week. Average relative humidity recorded as 33 % wind speed recorded as 0.9 Km/hr. During the previous week the highest rainfall recorded at Pattan as 3 mm and the extreme maximum temperature recorded at Garhi Dopatta as 45°C.

Past Weather for Major Agricultural Plains (18th to 24th June, 2012)

Rawalpindi (Potohar region)

No Rainfall reported during the last week, Mean cloudiness recorded as 1.5 oktas and average relative humidity 43%. Mean night temperature was 16.5°C with absolute value 13.0°C while day temperature recorded as 32.9°C with absolute value 36.0°C & for the present season 266.3 growing degree days accumulated by the end of last week. Wind speed recorded as 0.2 Km/hr with mean direction *westerly*.

Tandojam (Lower Sindh)

No Rainfall reported during the last week, Mean cloudiness recorded as 0.8 oktas and average relative humidity 47%. Mean night temperature was 23.4°C with absolute value 20.0°C while day temperature recorded as 40.7°C with absolute value 41.5°C & for the present season 224.0 growing degree days accumulated by the end of last week. Wind speed recorded as 13.6 Km/hr with mean direction *southerly*.

Faisalabad (Central Punjab)

No Rainfall reported during the last week, Mean cloudiness recorded as 2.9 oktas and average relative humidity 33%. Mean night temperature was 21.6°C with absolute value 18.5°C while day temperature recorded as 36.7°C with absolute value 39.2°C & for the present season 169.0 growing degree days accumulated by the end of last week. Wind speed recorded as 7.9 Km/hr with mean direction *south easterly*.

Quetta (Northern Balochistan)

Rainfall reported as 0.2 mm during the last week, Mean cloudiness recorded as 3.2 oktas and average relative humidity 27%. Mean night temperature was 11.2°C with absolute value 8.0°C while day temperature recorded as 26.8°C with absolute value 29.9°C & for the present season 133.1 growing degree days accumulated by the end of last week. Wind speed recorded as 1.8 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 37%. Mean night temperature was 21.2°C with absolute value 20.0°C while day temperature recorded as 40.6°C with absolute value 42.5°C & for the present season 216.1 growing degree days accumulated by the end of last week. Wind speed recorded as 9.1 Km/hr with mean direction *westerly*.

Past Weather for sub regional Agricultural Plains (18th to 24th June, 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 25.6°C with absolute value 24.0°C while day temperature recorded as 41.6°C with absolute value 45.0°C & for the present season 200.0 growing degree days accumulated by the end of last week. Wind speed recorded 6.4 Km/hr with mean direction *easterly*.

Skardu

No Rainfall reported during the last week, Mean cloudiness recorded as 4.9 oktas and average relative humidity 28%. Mean night temperature was 7.4°C with absolute value 5.1°C while day temperature recorded as 21.9°C with absolute value 24.3°C & for the present season 102.6 growing degree days accumulated by the end of last week. Wind speed recorded as 1.5 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 29%. Mean night temperature was 23.7°C with absolute value 20.7°C while day temperature recorded as 38.9°C with absolute value 42.2°C & for the present season 184.1 growing degree days accumulated by the end of last week. Wind speed recorded as 11.0 Km/hr with mean direction *westerly*.

Lahore

No Rainfall reported during the last week, Mean cloudiness recorded as 3.1 oktas and average relative humidity 32%. Mean night temperature was 21.2°C with absolute value 16.5°C while day temperature recorded as 36.2°C with absolute value 38.3°C & for the present season 166.2 growing degree days accumulated by the end of last week. Wind speed recorded as 7.7 Km/hr with mean direction *north-westerly*.

Sargodha

No Rainfall reported during the last week, Mean cloudiness recorded as 3.2 oktas and average relative humidity 35%. Mean night temperature was 22.0°C with absolute value 19.1°C while day temperature recorded as 36.7°C with absolute value 39.5°C & for the present season 205.7 growing degree days accumulated by the end of last week. Wind speed recorded as 4.2 Km/hr with mean direction *north easterly*.

Gilgit.

No Rainfall reported during the last week, Mean cloudiness recorded as 4.9 oktas and average relative humidity 38%. Mean night temperature was 9.8°C with absolute value 7.7°C while day temperature recorded as 28.5°C with absolute value 31.5°C & for the present season 134.2 growing degree days accumulated by the end of last week. Wind speed recorded as 0.2 Km/hr with mean direction *easterly*.

Jhelum

Rainfall reported as 13.4 mm during the last week, Mean cloudiness recorded as 3.5 oktas and average relative humidity 33%. Mean night temperature was 18.6°C with absolute value 14.4°C while day temperature recorded as 36.3°C with absolute value 39.0°C & for the present season 157.0 growing degree days accumulated by the end of last week. Wind speed recorded as 9.8 Km/hr with variable direction.

D.I. Khan

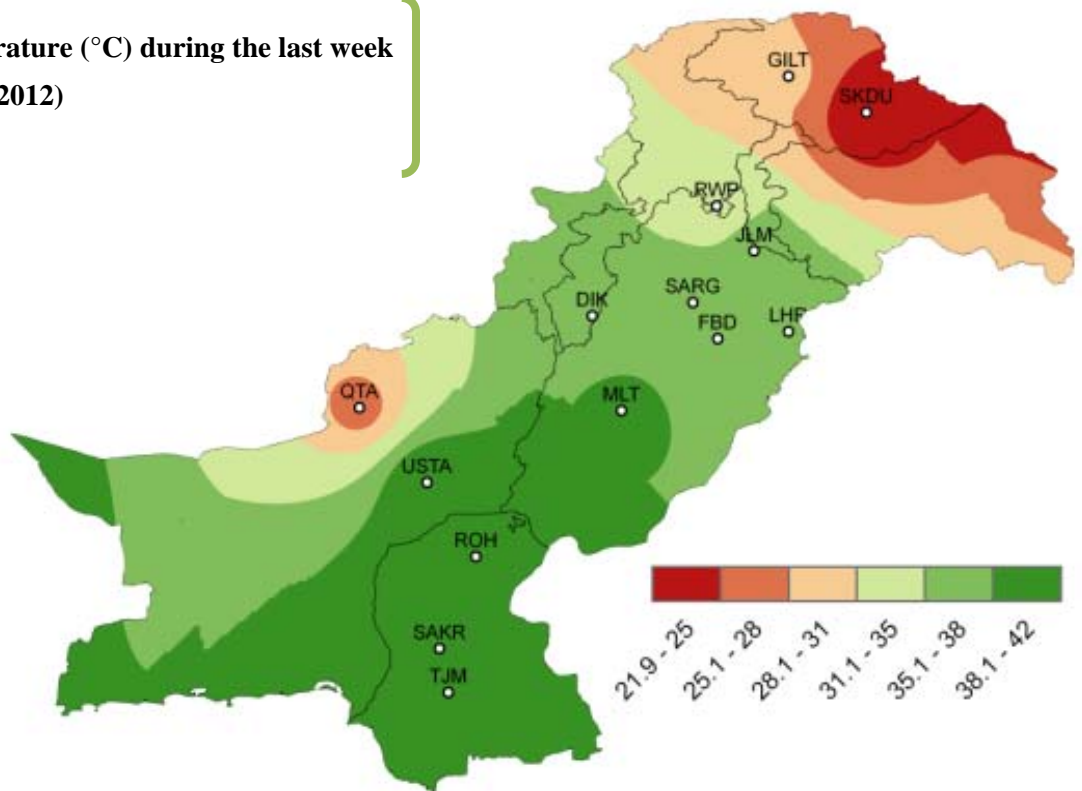
No Rainfall reported during the last week, Mean cloudiness recorded as 1.3 oktas and average

relative humidity 41%. Mean night temperature was 21.1°C with absolute value 17.5°C while day temperature recorded as 35.8°C with absolute value 39.0°C & for the present season 194.2 growing degree days accumulated by the end of last week. Wind speed recorded as 8.5 Km/hr with mean direction *north easterly*.

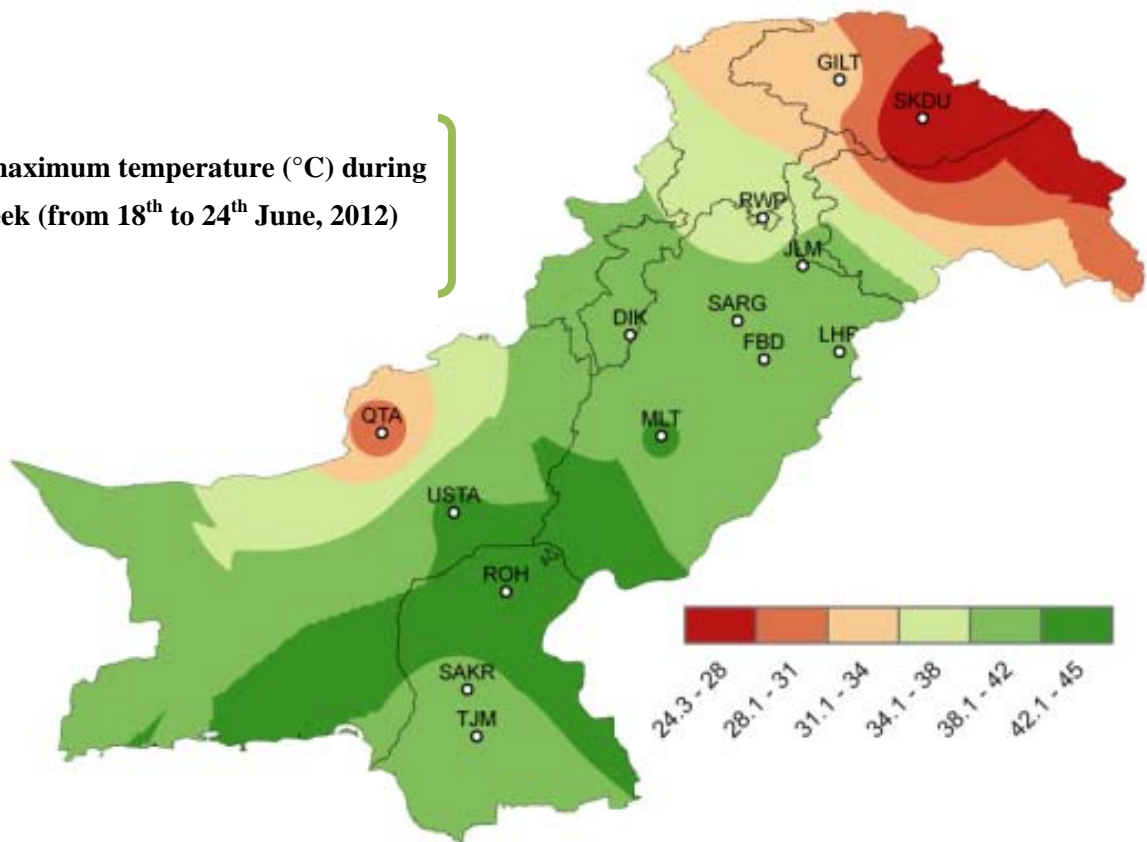
Sakrand

No Rainfall reported during the last week, Mean cloudiness recorded as 0.0 oktas and average relative humidity 28%. Mean night temperature was 21.9°C with absolute value 18.5°C while day temperature recorded as 40.6°C with absolute value 41.5°C & for the present season 211.5 growing degree days accumulated by the end of last week. Wind speed recorded as 0.8 Km/hr with mean direction *southerly*.

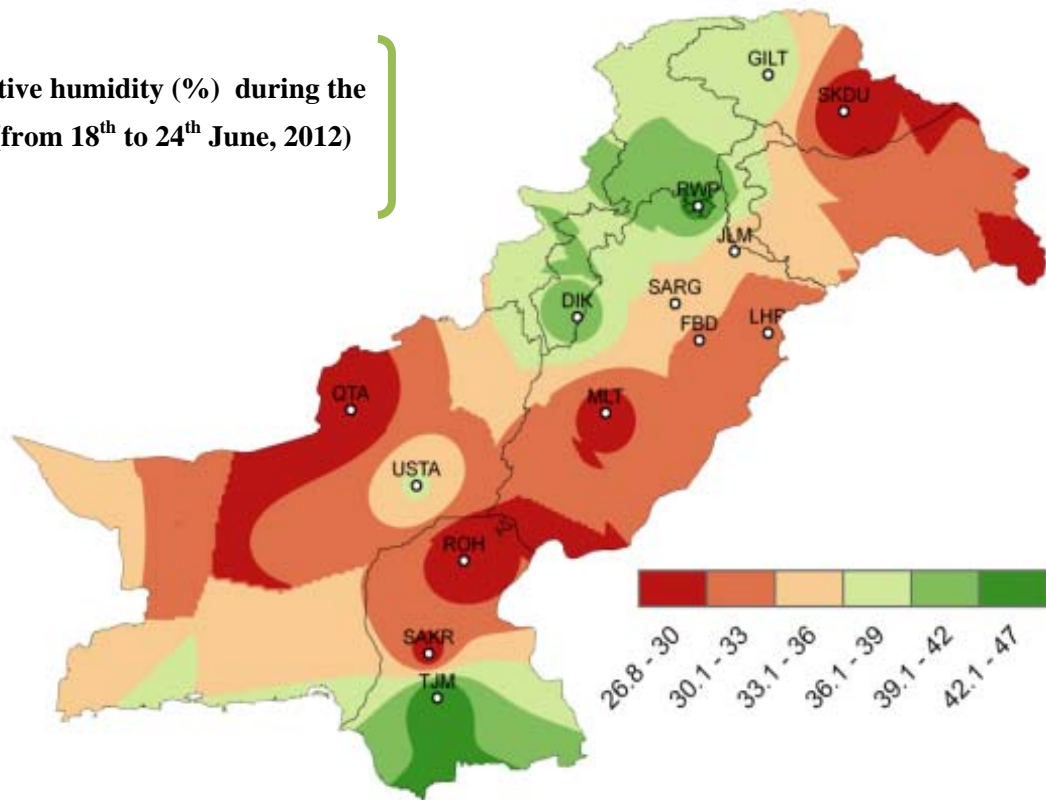
Mean maximum temperature (°C) during the last week
(from 18th to 24th June, 2012)



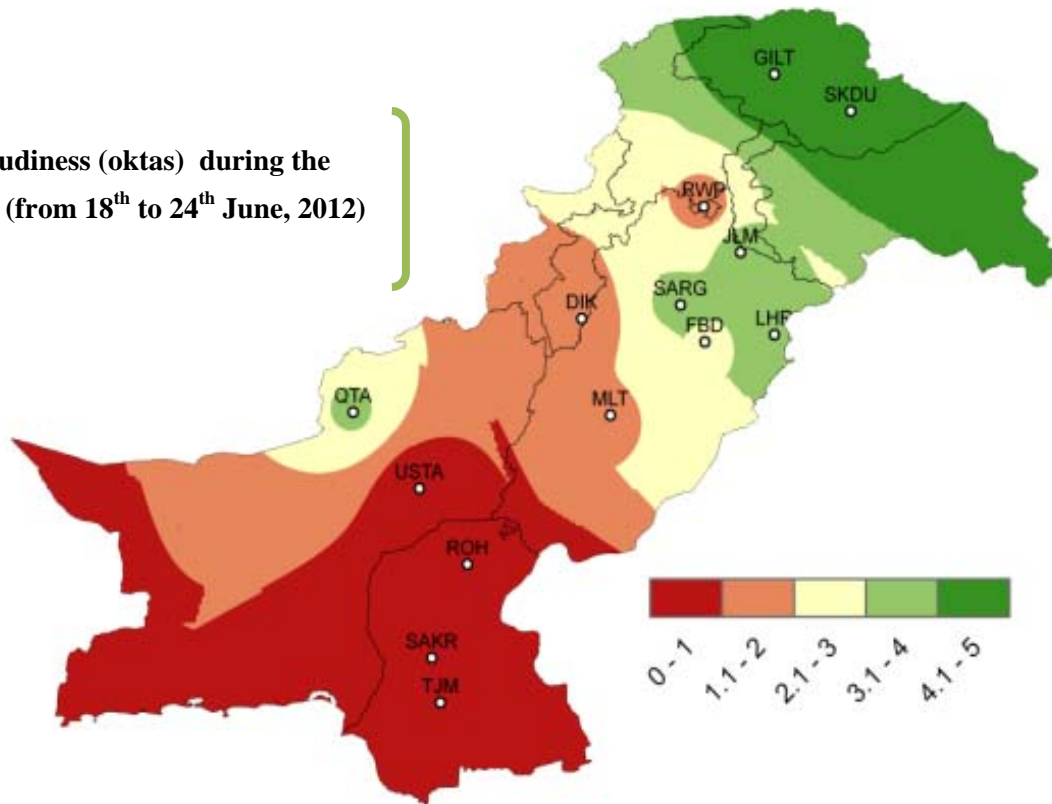
Extreme maximum temperature (°C) during
the last week (from 18th to 24th June, 2012)



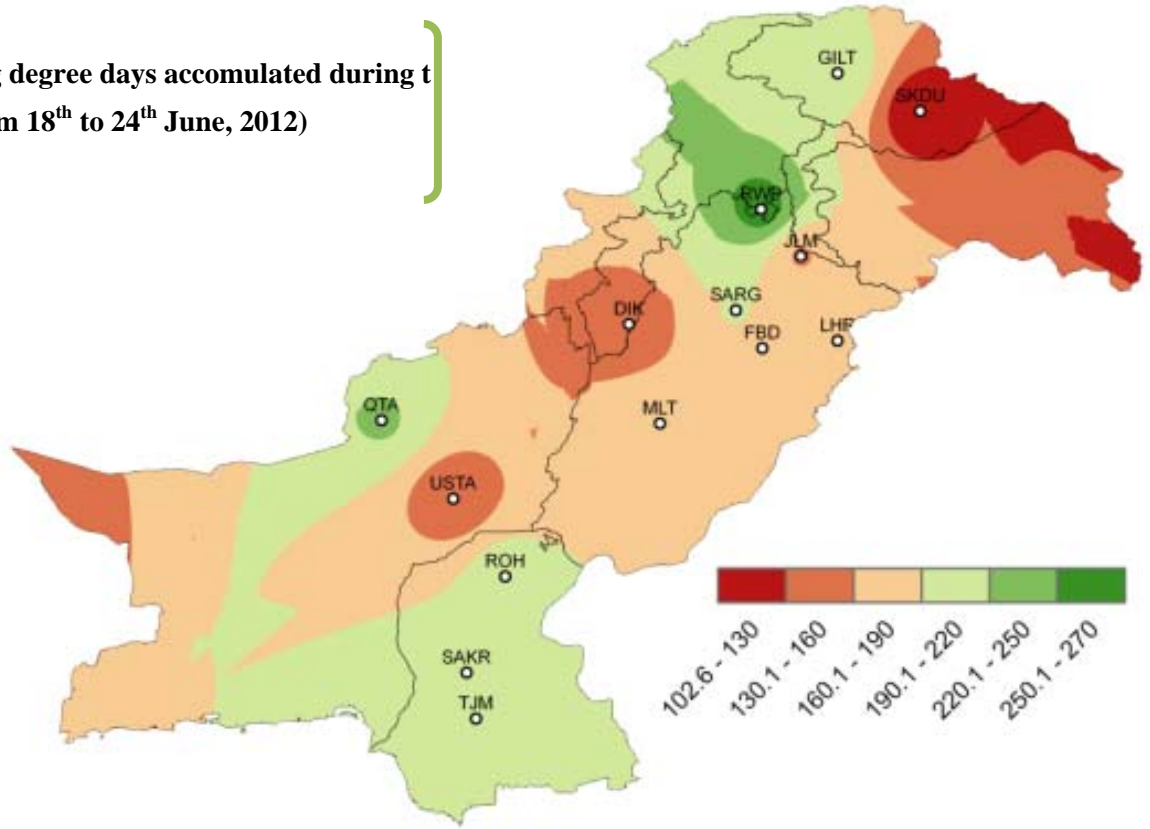
Mean relative humidity (%) during the last week (from 18th to 24th June, 2012)



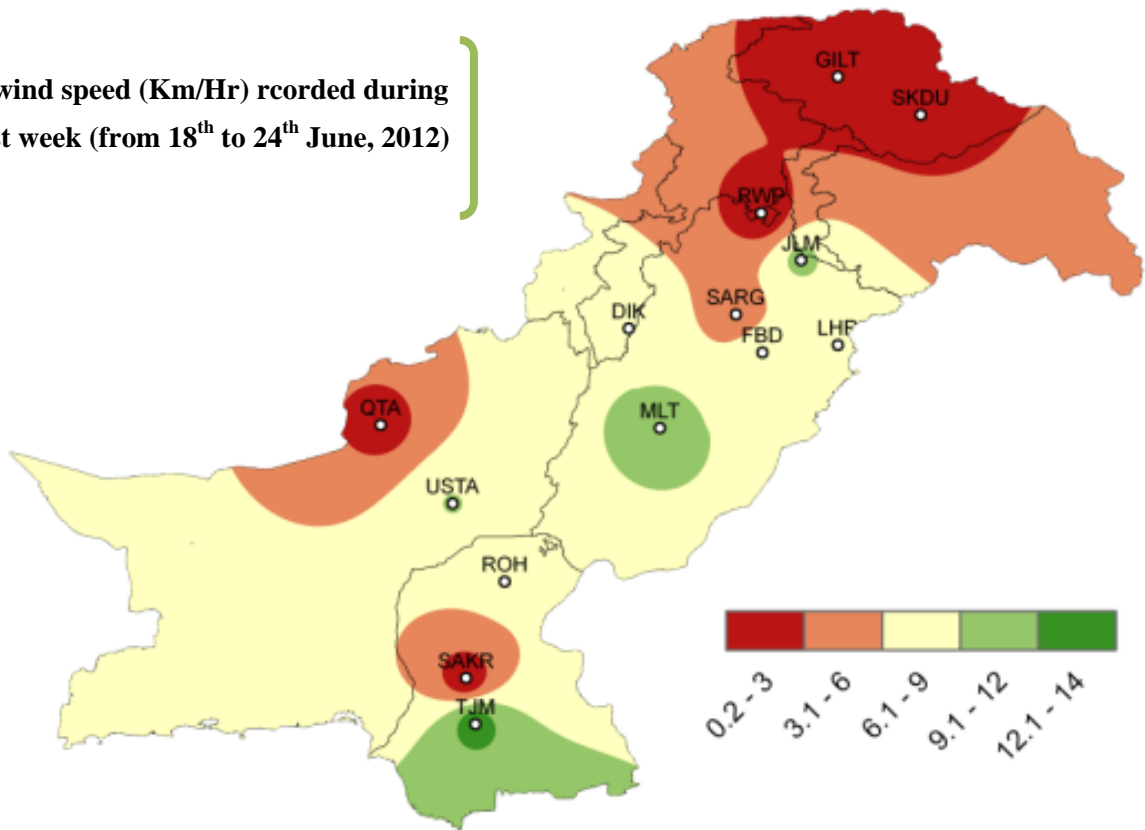
Mean cloudiness (oktas) during the last week (from 18th to 24th June, 2012)



Total growing degree days accumulated during the last week (from 18th to 24th June, 2012)



Mean wind speed (Km/Hr) recorded during the last week (from 18th to 24th June, 2012)



National Weather Data of Selected Cities

(Weekly data from 18th to 24th June, 2012)

Stations	Temperature (°C)				Growing Deg. Days	Relative Humidity (%)	Rainfall (mm)	Cloudiness (Oktas)
	Tmin*	Tmin (Lowest)	Tmax**	Tmax (Highest)				
Faisalabad	21.6	18.5	36.7	39.2	169.0	32.6	0.0	2.9
Rawalpindi	16.5	13.0	32.9	36.0	266.3	43.0	0.0	1.5
Lahore	21.2	16.5	36.2	38.3	166.2	31.8	0.0	3.1
Jhelum	18.6	14.4	36.3	39.0	157.0	33.0	13.4	3.5
Multan	23.7	20.7	38.9	42.2	184.1	28.6	0.0	1.9
Sargodha	22.0	19.1	36.7	39.5	205.7	35.0	0.0	3.2
Rohri	25.6	24.0	41.6	45.0	200.0	26.8	0.0	0.7
Tandojam	23.4	20.0	40.7	41.5	224.0	46.7	0.0	0.8
Sakrand	21.9	18.5	40.6	41.5	211.5	28.2	0.0	0.0
Quetta	11.2	8.0	26.8	29.9	133.1	27.3	0.2	3.2
Usta Muhammad	21.2	20.0	40.6	42.5	216.1	36.6	0.0	0.2
Gilgit	9.8	7.7	28.5	31.5	134.2	38.0	Trace [®]	4.9
Skardu	7.4	5.1	21.9	24.3	102.6	27.6	0.0	4.9
D. I. Khan	21.1	17.5	35.8	39.0	194.2	40.7	Trace	1.3

*Tmin; stands for minimum temperature

**Tmax; stands for maximum temperature

® Trace; stands for amount of precipitation which is not measurable

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, Emergence Completed.

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 no crop is grown however the fields are ready for upcoming crops; rice & Jawar.

Weekly Weather advisory for Farmers (from 25th June to 1st July, 2012)

Temperature Forecast

Day time temperatures are expected to approach to normal/below normal after pre-monsoon rain/dust storms especially in the particular areas and generally throughout the country .

Rain Forecast

Punjab: Mainly hot & dry weather is expected during the week. However significant rain over scattered places is expected in upper half including Lahore, Faisalabad, Sargodha, Gujranwala, Gujrat and Pothar region during 27th to 29th June.

Khyber Pakhtoonkhawa: Mainly hot & dry weather is expected during the week. However rain/dust-thunderstorm is expected at isolated places in the agricultural plains of KPK from 26th to 28th June.

Sindh: Mainly very hot & dry weather is expected during the week. However light rain is expected in coastal belt of Sindh during the mid-week period.

Balochistan: Mainly hot & dry weather is expected during the week. However rain/dust-thunderstorm is expected at isolated places of Northern Balochistan from 25th to 26th June.

Gilgit-Baltistan & Kashmir: Mainly dry weather is expected during the week. However rain/thunderstorm is expected at Gilgit-Baltistan & Kashmir from 26th to 29th June.

Wind Forecast

Dust raising winds likely to blow in the country especially in southern Punjab, Upper Sindh & Southeastern Balochistan during this week.

Advises for Crops:

Wheat: Harvesting/Threshing of wheat crop has been completed in the major agriculture areas of Sindh, Punjab & KPK. Wheat grains should be placed under hygienic conditions in godowns. Use of powdered Neem leaves in wheat bags beside

other chemicals may be useful to protect grains from the attacks of rodents, insects & fungi.

Cotton/Sugarcane: Due to rising day time temperatures and expected dry weather in coming days farmers should complete sowing of cotton and irrigate the standing cotton/sugarcane crops properly so that growth of these crops may not suffer due to shortage of water at early growing stages.

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 week 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.