

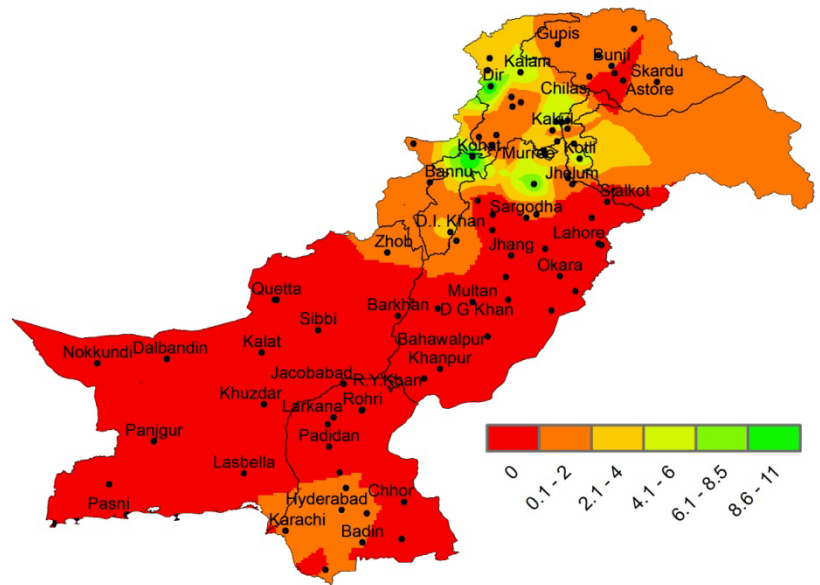
Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall distribution (mm) during the
last week (from 14th to 20th October, 2013)**



Highlights of Past Weather (from 14th to 20th October, 2013)

Mainly dry weather reported at most parts of the country during the week. Province wise distribution of rainfall given as below:

- Light rainfall reported at few places in upper parts of Punjab.
- Light to moderate rainfall reported at few places in Khyber Pakhtunkhwa.
- Light to moderate rainfall reported at most of the places in Gilgit Baltistan and Kashmir regions.
- No rainfall reported from Balochistan.
- No rainfall reported from Sindh.

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Patron -in-Chief: Arif Mahmood (Director General)
Chief Editor: Dr. Khalid Mehmood Malik (Director)
Editor: Tahir Mehmood (Assistant Meteorologist)

Punjab:

Light rainfall reported at few places in upper parts of Punjab Province during the week. Weekly maximum and minimum temperatures recorded as 33.5°C & 19.7°C respectively. For the present season average 149.7 growing degree days accumulated by the end of last week. Average relative humidity recorded as 63% and wind speed in the morning/evening recorded as 0.5/1.9 Knots. During the previous week highest amount of rainfall reported at Chakwal as 7.0mm and lowest minimum temperature recorded as 17.7°C at Murree.

Sindh:

No rainfall reported from Sindh Province during the week. Weekly maximum and minimum temperatures recorded as 36.5°C & 23.7°C respectively. For the present season average 174.3 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 1.6/4.0 Knots. During the previous week lowest minimum temperature recorded as 33.5°C at Karachi.

Khyber Pakhtunkhwa:

Light to moderate rainfall reported at few places in Khyber Pakhtunkhwa Province during the week. Weekly maximum and minimum temperatures recorded as 27.8°C & 13.4°C respectively. For the present season average 106.3 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 0.7/3.1 Knots. During the previous week highest amount of rainfall reported at Kohat as 11.0mm and lowest minimum temperature recorded as 16.0°C at Malam Jabba.

Balochistan:

No rainfall reported from Balochistan Province during the week. Weekly maximum and minimum temperatures recorded as 32.7°C & 16.5°C respectively. For the present season average 139.7 growing degree days accumulated by the end of last week. Average relative humidity recorded as 56% and wind speed in the morning/evening recorded as 1.2/4.9 Knots. During the previous week lowest minimum temperature recorded as 2.2°C at Kalat.

Gilgit Baltistan and Azad Jammu & Kashmir:

Light to moderate rainfall reported at most of the places in Gilgit Baltistan and & Kashmir regions. Weekly maximum and minimum temperatures recorded as 26.1°C & 11.2°C respectively. For the present season average 94.8 growing degree days accumulated by the end of last week. Average relative humidity recorded as 54% and wind speed in the morning/evening recorded as 0.5/2.0 Knots. During the previous week highest amount of rainfall reported at Muzaffarabad as 6.0mm and lowest minimum temperature recorded as 14.0°C at Hunza.

Past Weather for Major Agricultural- Plains (from 14th to 20th October, 2013)

Rawalpindi (Potohar region)

Rainfall reported as 1.0mm during the week; however cloudiness in the morning/evening recorded as 1.7/1.1 Oktas while, average relative humidity observed as 63%. Mean day time temperature recorded as 31.5°C & for the present season 133.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/0.9 Knots.

Faisalabad (Central Punjab)

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.3/0.3 Oktas while, average relative humidity observed as 53%. Mean day time temperature recorded as 35.0°C & for the present season 161.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/0.5 Knots.

Tandojam (Lower Singh)

No rainfall and cloudiness reported during the week; however, average relative humidity observed as 69%. Mean day time temperature recorded as 36.7°C & for the present season 171.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/1.2 Knots.

Quetta (Northern Balochistan)

Rainfall reported as "Trace" i.e 0.1mm during the week; however cloudiness in the morning/evening recorded 0.7/0.6 Oktas while, average relative humidity observed as 28%. Mean day time temperature recorded as 24.8°C & for the present season 66.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.8/3.1 Knots.

Usta Muhammad (Eastern Balochistan)

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.7/1.9 Oktas while, average relative humidity observed as 64%. Mean day time temperature recorded as 36.6°C & for the present season 180.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.1/0.1 Knots.

Past Weather for Sub Regional Agricultural- Plains ((from 14th to 20th October, 2013)

Rohri

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.8/0.4 Oktas while average relative humidity observed as 55%. Mean day time temperature recorded as 36.2°C & for the present season 177.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.8/2.3 Knots.

Multan

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.5/0.3 Oktas while average relative humidity observed as 62%. Mean day time temperature recorded as 34.7°C. Wind speed recorded in the morning/evening as 0.0/2.6 Knots.

Lahore

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.0/0.3 Oktas while average relative humidity observed as 61%. Mean day time temperature recorded as 33.3°C & for the present season 154.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.0/2.6 Knots.

Zhob

No rainfall reported during the week; however cloudiness in the morning/evening recorded as 0.0/0.9 Oktas while average relative humidity observed as 27%. Mean day time temperature recorded as 28.9°C & for the present season 121.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.5/5.7 Knots.

D.I. Khan

Rainfall reported as 3.0mm during the week; however cloudiness in the morning/evening recorded as 0.5/0.0 Oktas while average relative humidity observed as 65%. Mean day time temperature recorded as 33.6°C & for the present season 151.3 growing degree days accumulated by the end of last week.

Peshawar

Rainfall reported as 0.1mm during the week; however cloudiness in the morning/evening recorded as 0.4/1.1 Oktas while average relative humidity observed as 58%. Mean day time temperature recorded as 31.1°C. Wind speed recorded in the morning/evening as 0.0/3.7 Knots.

Murree

Rainfall reported as 3.0mm during the week; however cloudiness in the morning/evening recorded as 1.3/0.6 Oktas while average relative humidity observed as 63%. Mean day time temperature recorded as 21.0°C & for the present season 78.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.3/0.0 Knots.

Kalam

Rainfall reported as 6.0mm during the week; however cloudiness in the morning/evening recorded as 1.4/3.4 Oktas while average relative humidity observed as 62%. Mean day time temperature recorded as 21.4°C & for the present season 78.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.3 Knots.

Gilgit

Rainfall reported as 1.0mm during the week; however cloudiness in the morning/evening recorded as 2.7/2.6 Oktas while average relative humidity observed as 65%. Mean day time temperature recorded as 25.5°C & for the present season 84.3 growing degree days accumulated by the end of last week.

Skardu

Rainfall reported as "Trace" i.e 0.1mm during the week; however cloudiness in the morning/evening recorded as 2.8/3.4 Oktas while average relative humidity observed as 51%. Mean day time temperature recorded as 21.5°C & for the present season 54.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/7.4 Knots.

Crop Situation for Major Agricultural Plains
(Based on data from Regional Agromet Centres)

Potohar Region (Rawalpindi)

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

Maize (Agati 2002): Good condition at *Flowering* stage.

Central Punjab (Faisalabad)

There are two crops (irrigated conditions) grown in the fields as detailed below.

Sugarcane: Very Good condition, *Tillering* stage completed.

Cotton: Normal condition at *Picking* stage.

Lower Sindh (Tandojam)

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

Cotton (BT-3701): Normal condition at *Maturity* stage.

Northern Balochistan (Quetta)

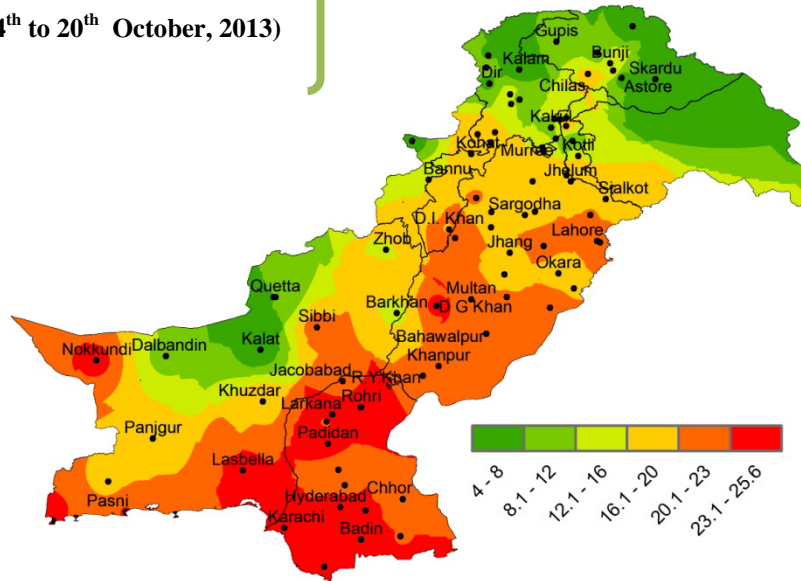
There is presently no crop in the fields.

Eastern Balochistan (Usta Muhammad)

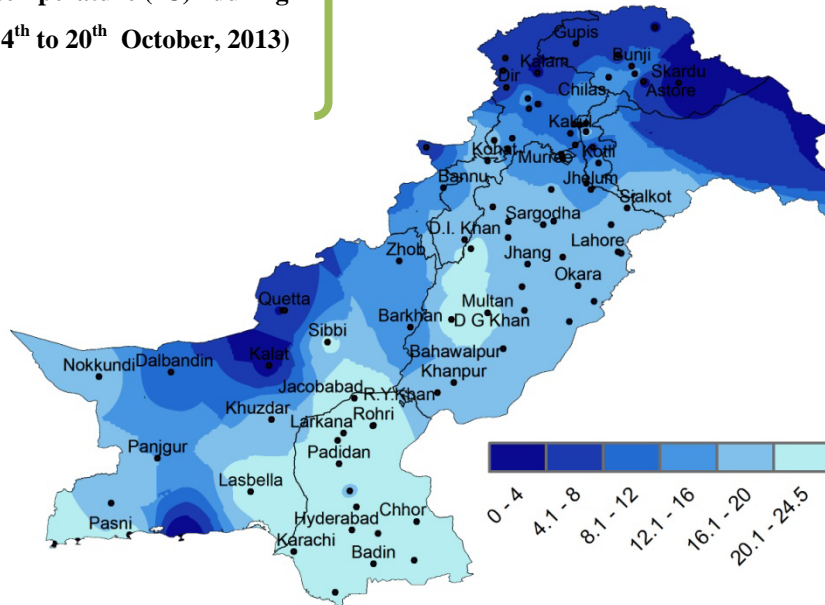
There is only one crop (irrigated conditions) grown in the fields as detailed below.

Rice: Good condition at *Full Maturity* stage.

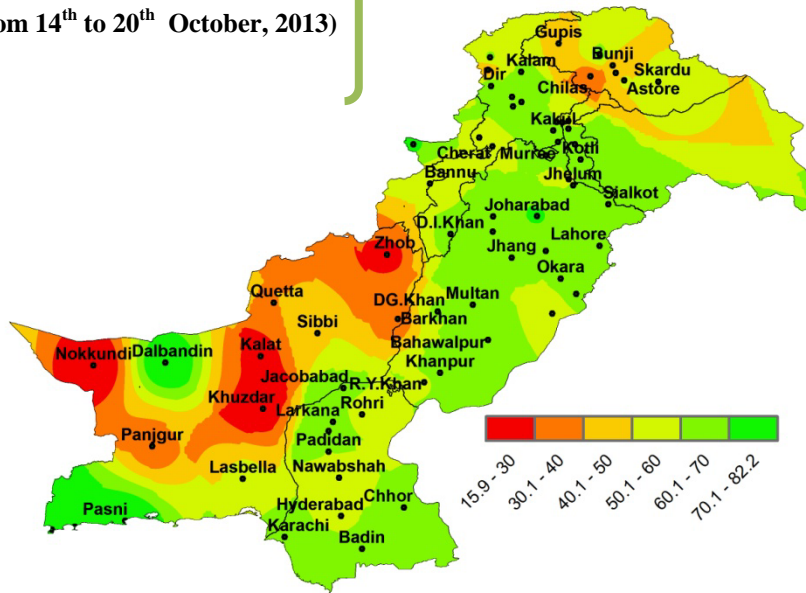
Mean minimum temperature (°C) during the last week (from 14th to 20th October, 2013)



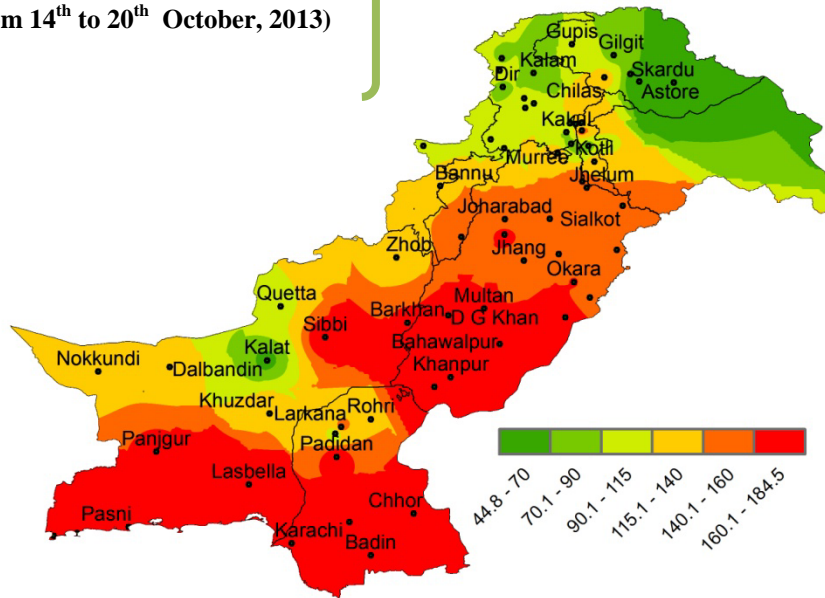
Lowest minimum temperature (°C) during the last week (from 14th to 20th October, 2013)



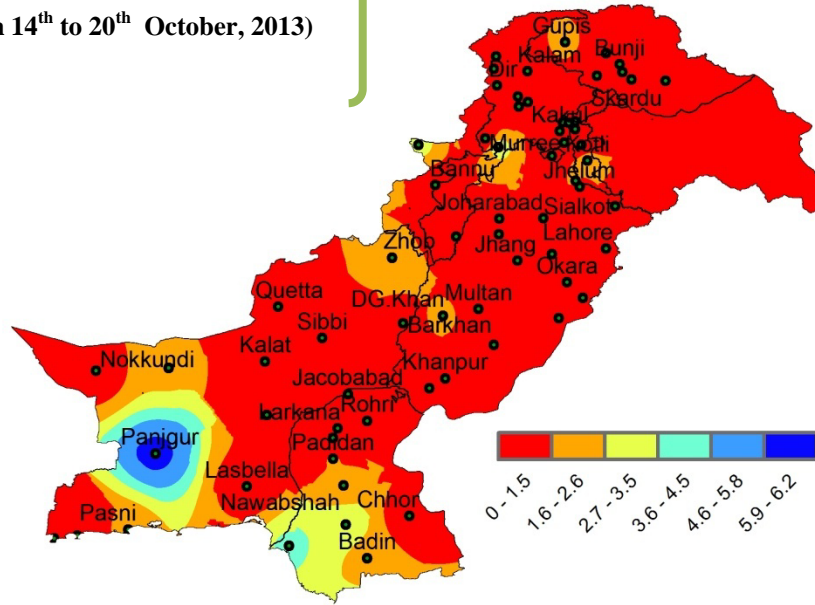
Mean relative humidity (%) during the last week (from 14th to 20th October, 2013)



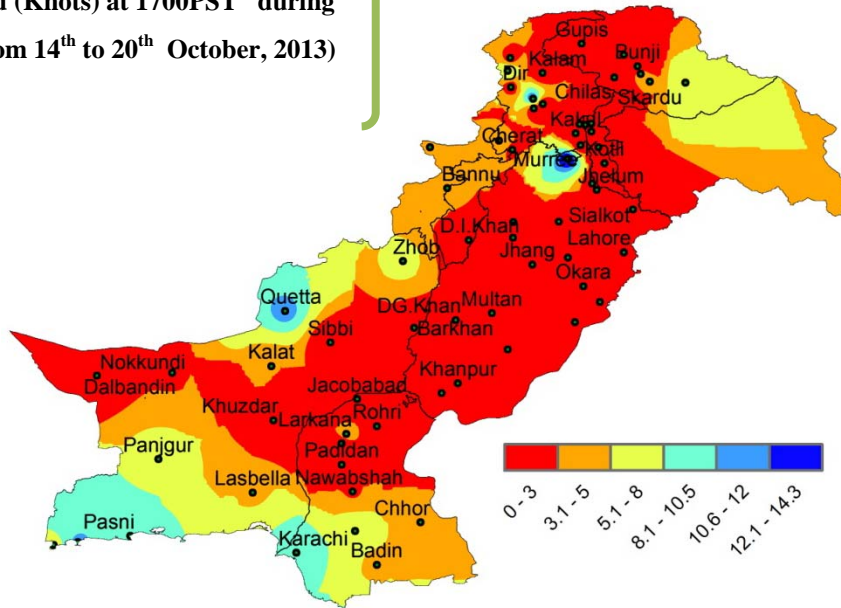
Total growing degree days accumulated during the last week (from 14th to 20th October, 2013)



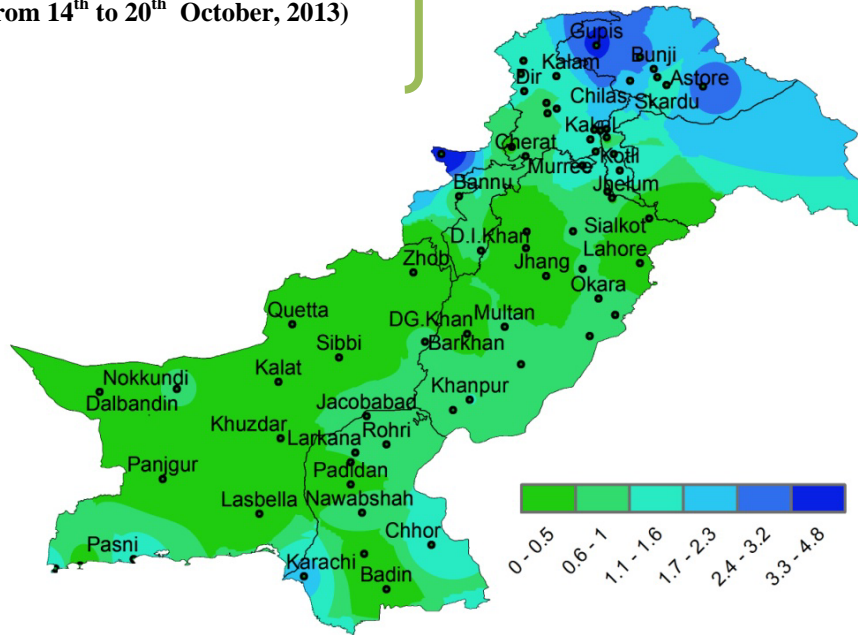
Mean wind speed (Knots) at 0800 PST during the last week ((from 14th to 20th October, 2013)



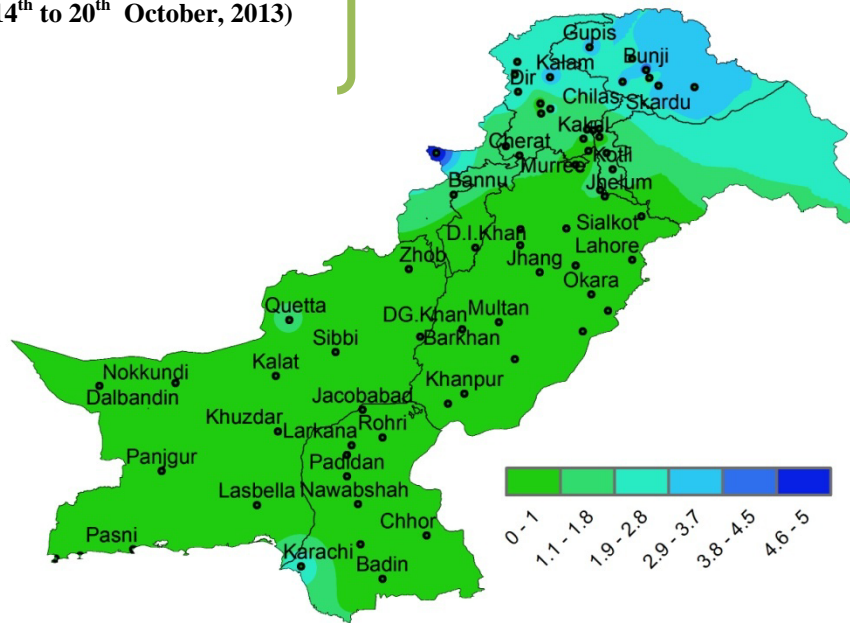
Mean wind speed (Knots) at 1700PST during the last week (from 14th to 20th October, 2013)



Mean Cloudiness (Oktas) at 0800PST during the last week (from 14th to 20th October, 2013)



Mean Cloudiness (Oktas) at 1700PST during the last week (from 14th to 20th October, 2013)



Weekly Weather advisory for Farmers
(From 21st to 27th October, 2013)

Continental air would prevail over most parts of the country during first half of the week. A Shallow westerly wave is likely to affect northwestern parts of the country on Wednesday and another fresh western disturbance is expected to approach upper parts of the country during the weekend.

Punjab including Islamabad: Mainly dry weather is expected in most parts of the province during the week. However, rain-thunderstorm associated with gusty winds is expected at isolated places in Islamabad, Rawalpindi, Sargodha divisions during the weekend. Night temperatures are likely to decrease further in upper Punjab from Sunday.

Khyber Pakhtunkhwa: Mainly dry weather is expected in most parts of the province during the week. However, rain-thunderstorm is expected at a few places of Malakand division on Wednesday.

Rain-thunderstorm associated with gusty winds is expected at isolated places in Malakand, Hazara, Peshawar, Kohat divisions, and adjoining FATA region during the weekend. Night temperatures are likely to decrease further in most parts of the province from Sunday.

Balochistan: Mainly dry weather is expected in most parts of the province during the week. Night temperatures are likely to decrease further in northeast Balochistan from Sunday, while, day temperatures are likely to remain 1-3 °C above normal in the southern Balochistan during first five days of the week.

Sindh: Mainly dry weather is expected in most parts of the province during the week. However, day temperatures are likely to remain 2-4 °C above normal during first four days of the week.

Gilgit -Baltistan: Fair weather is expected in Gilgit-Baltistan during Monday/Tuesday. While,

partly cloudy to cloudy weather conditions with light rain is expected at isolated places from Wednesday to Sunday. Night temperatures are likely to decrease further from Sunday.

Kashmir: Mainly dry weather is expected in Kashmir during the week. However, rain-thunderstorm is expected at isolated places in Kashmir during Wednesday and again at scattered places during the weekend. Night temperatures are likely to decrease further from Sunday.

Advises for Crops:

Sugarcane/Cotton: Farmers are advised to manage irrigation practices as per weather prediction during the week.

Wheat: Farmers of rainfed areas are advised to sow their Rabi crops during the period 15th October to 15th November. After this time the yield of wheat crop decreases gradually. Farmers of cotton crop areas are advised to prepare their field for incoming Rabi crops and complete sowing process before 15th December. After this time the yield of wheat crop decreases gradually. Farmers of wheat growing areas are advised to sow their crops in time to get the optimum yield. The best suitable time for wheat cultivation is 1st November to 20th November.

Vegetables: Farmers are advised to cultivate winter vegetables in time so that present soil moisture may fully be utilized.

General Information: Farmers of rained 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. Farmers should also free the crops from excess of weeds after recent rains especially in the upper half of the country.

National Weather Data of Selected Cities
(Weekly Data from 14th to 20th October, 2013)

Stations	Minimum/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	Lowest							
Astore	18.3	15.5	44.8	52	0.0	1.3	3.7	0.0	3.1
Badin	35.1	34.0	174.3	65	0.0	0.0	0.3	2.0	4.3
Bahawalnagar	36.6	33.5	165.3	56	0.0	0.5	0.0	0.0	0.9
Bahawalpur	35.6	33.2	162.4	64	0.0	0.7	0.1	0.0	0.9
Bannu	32.5	31.3	135.2	50	1.0	0.7	1.0	0.7	4.6
Barkhan	31.1	29.0	126.8	33	0.0	0.5	0.7	0.7	1.7
Bunji	25.8	24.4	***	42	0.0	2.3	4.7	0.3	0.9
Cherat	25.9	24.5	112.0	59	0.0	0.7	1.4	3.3	2.9
Chhor	37.5	35.8	175.1	64	0.0	1.5	0.0	0.5	3.1
Chilas	29.4	27.0	127.8	31	0.0	2.2	2.9	0.3	0.6
D.I.Khan	33.6	32.5	151.3	65	3.0	0.5	0.0	0.0	0.0
Dalbandin	35.1	34.0	125.0	82	0.0	0.5	0.7	2.3	2.9
DG.Khan	34.8	33.5	169.5	62	0.0	0.3	0.7	2.0	1.7
Dir	26.2	24.5	82.6	70	10.0	1.0	2.7	0.0	1.4
Drosh	28.1	24.0	113.0	35	2.3	1.3	1.7	0.0	8.6
Faisalabad	35.0	33.5	161.3	53	0.0	0.3	0.3	0.3	0.5
Garidopatta	34.3	29.5	148.8	66	0.0	0.0	0.0	0.0	0.0
Gawader	33.7	33.0	162.0	78	0.0	0.0	0.0	0.0	10.9
Gilgit	25.5	19.5	84.3	65	1.0	2.7	2.6	0.0	0.0
Gupis	21.3	18.5	70.8	45	0.0	3.3	2.9	2.0	2.9
Hyderabad	37.3	35.0	181.0	58	0.0	0.0	0.6	3.5	7.4
Islamabad	30.9	28.5	135.0	60	3.0	1.2	0.6	0.0	14.3
Jacobabad	35.2	34.0	165.5	63	0.0	0.8	0.0	1.0	0.9
Jhang	34.4	33.8	155.1	61	0.0	0.0	0.0	0.0	0.0
Jhelum	33.6	32.0	147.6	60	0.0	0.3	0.6	1.0	1.1

Jiwani	32.9	32.0	166.5	77	0.0	1.3	0.0	0.0	7.1
Joharabad	34.3	33.0	151.1	66	0.0	0.0	0.0	0.7	1.7
Kakul	26.5	23.3	89.4	64	1.0	1.5	0.7	0.3	0.9
Kalam	21.4	18.5	78.9	62	6.0	1.4	3.4	0.0	0.3
Kalat	23.7	22.0	65.5	27	0.0	0.0	0.7	0.0	3.1
Karachi	35.0	33.5	177.1	64	0.0	1.8	2.3	3.7	10.0
Khanpur	36.1	33.5	164.1	70	0.0	1.0	0.0	0.3	0.3
Khuzdar	30.7	29.0	138.5	21	0.0	0.0	0.0	1.0	0.9
Kotli	30.5	26.1	129.3	64	5.0	1.3	1.4	2.3	1.4
Lahore	33.3	32.5	154.2	61	0.0	0.0	0.3	1.0	2.6
Lasbella	39.1	38.0	184.5	53	0.0	0.0	0.0	0.4	4.9
Lower Dir	29.7	29.0	94.9	65	2.0	0.7	0.4	1.7	13.6
M.B Din	33.6	32.7	151.5	71	0.0	0.5	0.1	1.3	1.4
Malam Jabba	17.6	16.0	91.8	68	0.0	1.2	2.1	0.8	0.0
Mangla	33.7	31.5	142.1	59	0.0	1.0	1.4	1.7	2.3
Mir Khani	30.6	28.4	***	45	0.0	1.0	0.7	0.0	3.7
Moinjodaro	35.6	34.5	***	64	0.0	0.0	0.3	0.0	2.0
Multan	34.7	33.5	***	62	0.0	0.5	0.3	0.0	2.6
Murree	21.0	17.7	78.7	63	3.0	1.3	0.6	1.3	0.0
Muzaffarabad	30.1	25.0	121.5	60	6.0	2.0	2.3	0.5	0.0
Nokkundi	36.1	35.0	131.0	16	0.0	0.0	0.0	0.4	1.4
Noorpurthal	37.7	36.8	163.6	64	0.0	0.0	0.0	0.0	0.0
Okara	34.7	33.5	160.3	61	0.0	0.5	0.2	0.0	0.0
Padidan	37.4	36.0	181.3	60	0.0	0.4	0.3	1.6	2.0
Panjgur	34.5	33.5	166.8	34	0.0	0.0	0.0	6.2	6.3
Parachinar	19.5	18.0	94.0	71	0.0	4.8	5.0	3.0	3.0
Pasni	33.2	31.5	***	79	0.0	1.3	0.0	2.0	10.3
Pattan	32.0	26.0	129.5	51	3.0	1.8	2.0	0.0	0.0
Peshawar	31.1	27.5	***	58	0.1	0.4	1.1	0.0	3.7
Quetta	24.8	23.6	66.9	28	0.1	0.7	0.6	1.8	3.1

R.Y.Khan	37.9	36.4	173.3	58	0.0	0.5	0.0	0.3	1.7
Rawalakot	25.1	22.5	79.5	70	3.0	1.3	1.6	0.0	2.6
Rawalpindi	31.1	30.5	133.5	63	1.0	1.7	1.1	0.6	0.9
Rohri	36.2	35.0	177.5	55	0.0	0.8	0.4	0.8	2.3
Sahiwal	34.6	33.0	155.5	62	0.0	0.8	0.0	0.7	0.9
Saidu Sharif	27.4	26.0	109.0	63	0.1	0.8	0.9	0.3	0.7
Sibbi	39.1	37.5	179.3	50	0.0	0.0	0.0	0.0	0.0
Skardu	21.5	20.6	54.4	51	0.1	2.8	3.4	0.0	7.4
Tandojam	36.7	35.0	171.8	69	0.0	0.0	0.0	0.3	1.2
U.Muhammad	36.6	36.0	180.3	64	0.0	0.7	1.9	0.1	0.1
Zhob	28.9	28.0	121.5	27	0.0	0.0	0.9	2.5	5.7

*** Shows that data was not available.