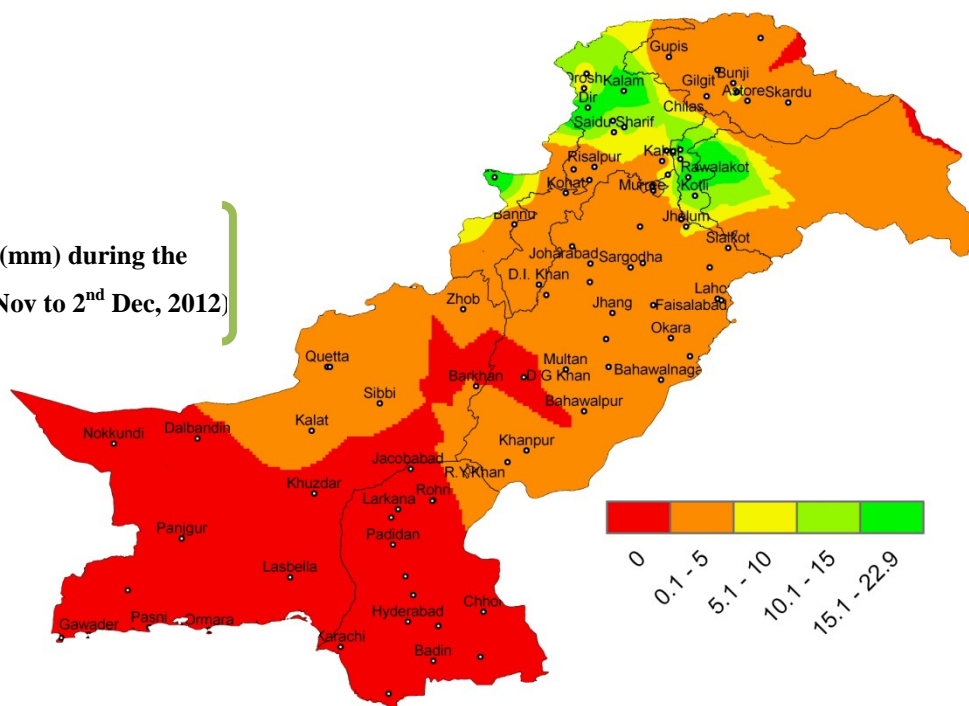


## Weekly Weather and Crop Bulletin for Pakistan

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Rainfall distribution (mm) during the  
last week (from 26<sup>th</sup> Nov to 2<sup>nd</sup> Dec, 2012)



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### Highlights of Past Weather (26<sup>th</sup> Nov to 2<sup>nd</sup> Dec, 2012)

Light rainfall reported from most of the agricultural plains of Khyberpakhtunkhwa, Gilgit Baltistan & Azad Kashmir region and Punjab province. Isolated rainfall reported from Balochistan whereas totally dry weather reported from Sindh province.

## **Punjab**

During the week isolated rainfall reported except from the southern parts of the province. Weekly maximum temperature and minimum temperature recorded as 23.8°C & 7.7°C respectively. For the present season on average 75.9 growing degree days accumulated by the end of last week. Average relative humidity recorded as 65 % and wind speed in the morning/evening recorded as 1.4/0.9 Knots. During the previous week highest rainfall recorded as 9.0 mm at Murree whereas the extreme minimum temperature recorded as -1.0°C at the same place.

## **Sindh**

Mainly dry & cold weather observed all over the province during the week. Weekly maximum temperature and minimum temperature recorded as 27.9°C & 12.3°C respectively. For the present season on average 106.6 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 0.7/3.1 Knots. During the previous week the extreme minimum temperature recorded as 5.5°C at Mithi.

## **Khyber Pakhtoon Khawa (KP)**

Light rainfall reported from most of the agricultural plains the province during the week. Weekly maximum temperature and minimum temperature recorded as 17.1°C & 3.0°C respectively. For the present season on average 30.9 growing degree days accumulated by the end of last week. Average relative humidity recorded as 62 % and wind speed in the morning/evening recorded as 1.2/1.9 Knots. During the previous week highest rainfall recorded as 23.0 mm at Dir whereas the extreme minimum temperature recorded as -4.7°C at Kalam.

## **Balochistan**

Mainly dry & cold weather observed all over the province during the week however light rainfall reported from a single place Quetta as 3.1 mm. Weekly maximum temperature and minimum temperature recorded as 23.7°C & 8.0°C respectively. For the present season on average 85.8 growing degree days accumulated by the end of last week. Average relative humidity recorded as 44 % and wind speed in the morning/evening recorded as 2.3/4.7 Knots. During the previous week extreme minimum temperature recorded as -3.5°C at Samungli (Quetta).

## **Gilgit Baltistan and Azad Jammu & Kashmir**

Light rainfall reported from most of the agricultural plains the region during the week. Weekly maximum temperature and minimum temperature recorded as 15.1°C & 1.3°C respectively. For the present season on average 18.7 growing degree days accumulated by the end of last week. Average relative humidity recorded as 57 % and wind speed in the morning/evening recorded as 1.1/1.8 Knots. During the previous week the highest rainfall recorded at Pattan as 23.0 mm and extreme minimum temperature recorded as -9.5°C at Skardu.

## **Past Weather for Major Agricultural Plains**

(from 26<sup>th</sup> Nov to 2<sup>nd</sup> Dec, 2012)

### **Rawalpindi (Potohar region)**

Rainfall recorded as 1.2 mm during the last week with cloudiness in the morning/evening as 1.1/1.7 oktas while average relative humidity observed as 63%. Mean night temperature recorded as 5.0°C & for the present season 55.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.8/1.2 Km/h.

### **Tandojam (Lower Sindh)**

Dry weather observed during the last week with cloudiness in the morning/evening as 0.8/1.7 oktas while average relative humidity observed as 64%. Mean night temperature recorded as 12.0°C & for the present season 105.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.4/0.8 Km/h.

### **Faisalabad (Central Punjab)**

Rainfall recorded as Trace (indeterminate amount) during the last week with cloudiness in the morning/evening as 2.7/2.1 oktas while average relative humidity observed as 53%. Mean night temperature recorded as 7.5°C & for the present season 77.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.4/1.1 Km/h.

### **Quetta (Northern Balochistan)**

Rainfall recorded as 3.1 mm during the last week with cloudiness in the morning/evening as 1.8/1.7 oktas while average relative humidity observed as 38%. Mean night temperature recorded as 0.9°C & for the present season 18.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.3/6.7 Km/h.

## **Past Weather for sub regional Agri-cultural**

**Plains** (from 26<sup>th</sup> Nov to 2<sup>nd</sup> Dec, 2012)

### **Rohri**

Dry weather with with cloudiness recorded in the morning/evening as 1.4/1.8 oktas and average relative humidity recorded as 57%. Mean night temperature recorded as 13.4°C & for the present season 103.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/1.0 Knots.

### **Multan**

Dry weather with with cloudiness recorded in the morning/evening as 2/2 oktas and average relative humidity recorded as 59%. Mean night temperature recorded as 9.6°C & for the present season 86.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.3/1.4 Knots.

### **Lahore**

Rainfall recorded as 0.3 mm with cloudiness recorded in the morning/evening as 2.1/2.7 oktas and average relative humidity recorded as 60%. Mean night temperature recorded as 9.0°C & for the present season 79.1 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 0/1.7 Knots.

### **Zhob**

Dry weather with with cloudiness recorded in the morning/evening as 1.1/1.0 oktas and average relative humidity recorded as 38%. Mean night temperature recorded as 3.6°C & for the present season 68.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.6/4.7 Knots.

### **D.I. Khan**

Rainfall recorded as 0.2 mm with cloudiness recorded in the morning/evening as 0.7/1.1 oktas and average relative humidity recorded as 66%. Mean night temperature recorded as 6.7°C & for the present season 73.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/1.1 Knots.

## **Peshawar**

Rainfall recorded as 1.0 mm during the last week with cloudiness in the morning/evening as 1.5/2.1 Oktas and average relative humidity observed as 65%. Mean night temperature recorded as 4.5°C & for the present season 58.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0/2.0 Knots.

## **Murree**

Rainfall recorded as 9.0 mm during the last week with cloudiness in the morning/evening as 1.6/2.6 Oktas and average relative humidity observed as 55%. Mean night temperature recorded as 2.6°C & for the present season 16.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.4/0.6 Knots.

## **Kalam**

Rainfall recorded as 21.0 mm during the last week with cloudiness in the morning/evening as 2.7/2.1 Oktas and average relative humidity observed as 72%. Mean night temperature recorded as -1.4°C & for the present season 1.2 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as Calm (no wind) Knots.

## **Gilgit.**

Rainfall recorded as 0.1 mm during the last week with cloudiness in the morning/evening as 3.0/2.6 Oktas and average relative humidity observed as 63%. Mean night temperature recorded as -0.3°C & for the present season 19.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/0.0 Knots.

## **Skardu**

Dry weather observed during the last week, cloudiness recorded in the morning/evening as 4.4/3.4 Oktas and average relative humidity as 61%. Mean night temperature recorded as -4.3°C and wind recorded in the morning/evening as Calm (no wind) Knots.

## **Crop Situation for major agricultural plains (based on data from Regional Agromet Centres)**

### **Potohar Region (Rawalpindi)**

No crop is grown in the fields at present.

### **Central Punjab (Faisalabad)**

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

**Sugarcane:** Good condition, Third leaf stage completed.

**Wheat:** Good condition, at *Emergence* stage.

### **Lower Sindh (Tandojam)**

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

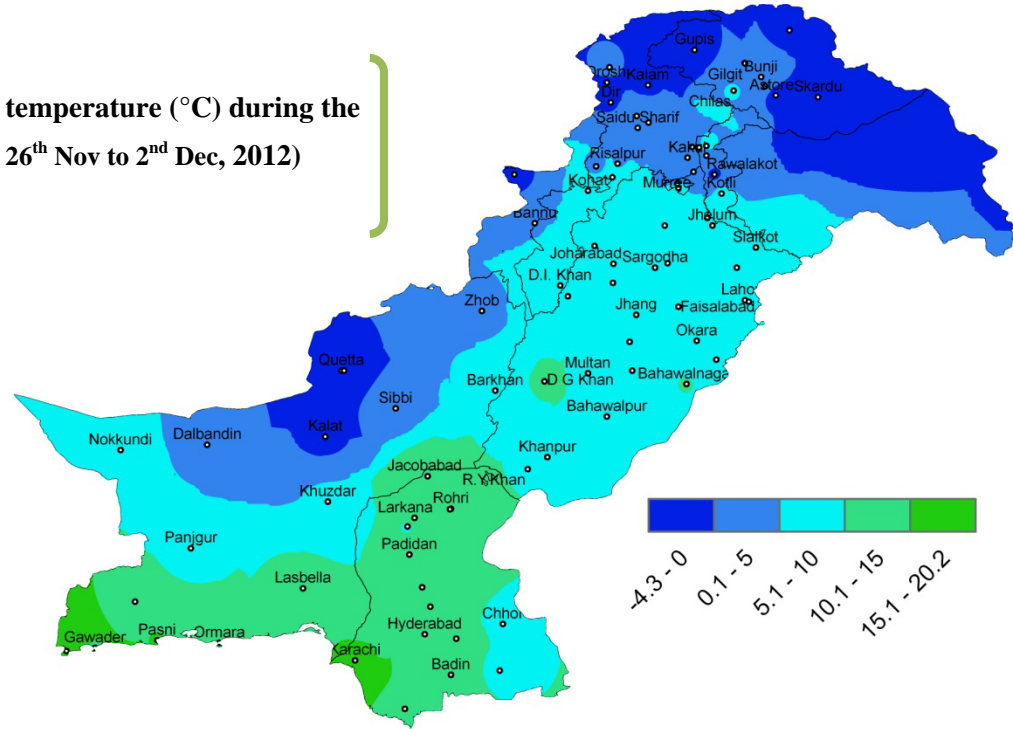
**Wheat (TJ-83):** Good condition, at *Third leaf* stage.

### **Northern Balochistan (Quetta)**

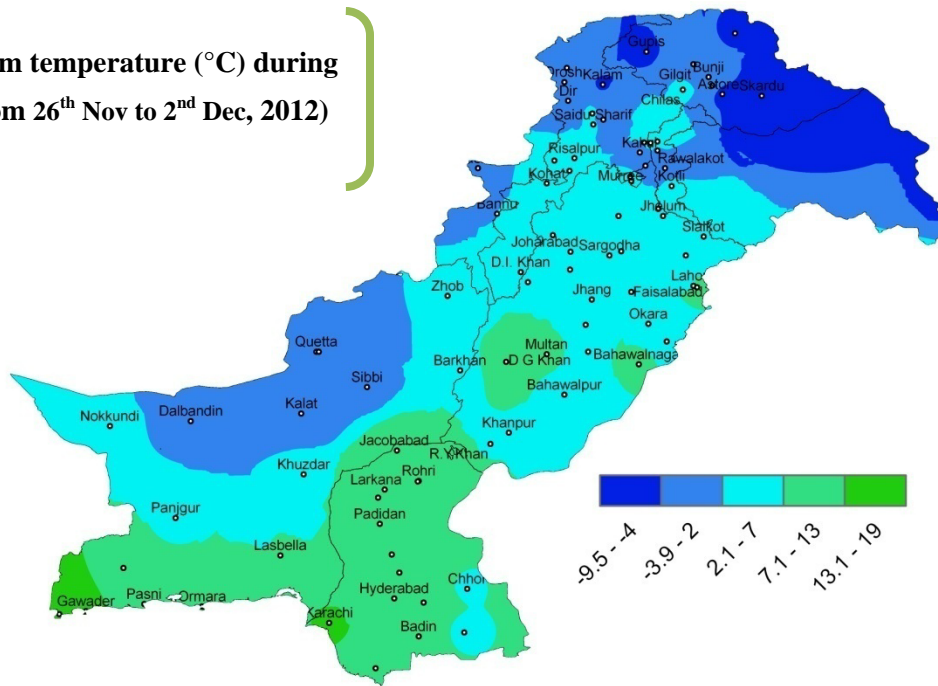
There is presently one crop (rainfed conditions) grown in the fields as detailed below.

**Wheat:** Good condition, at *Germination* stage.

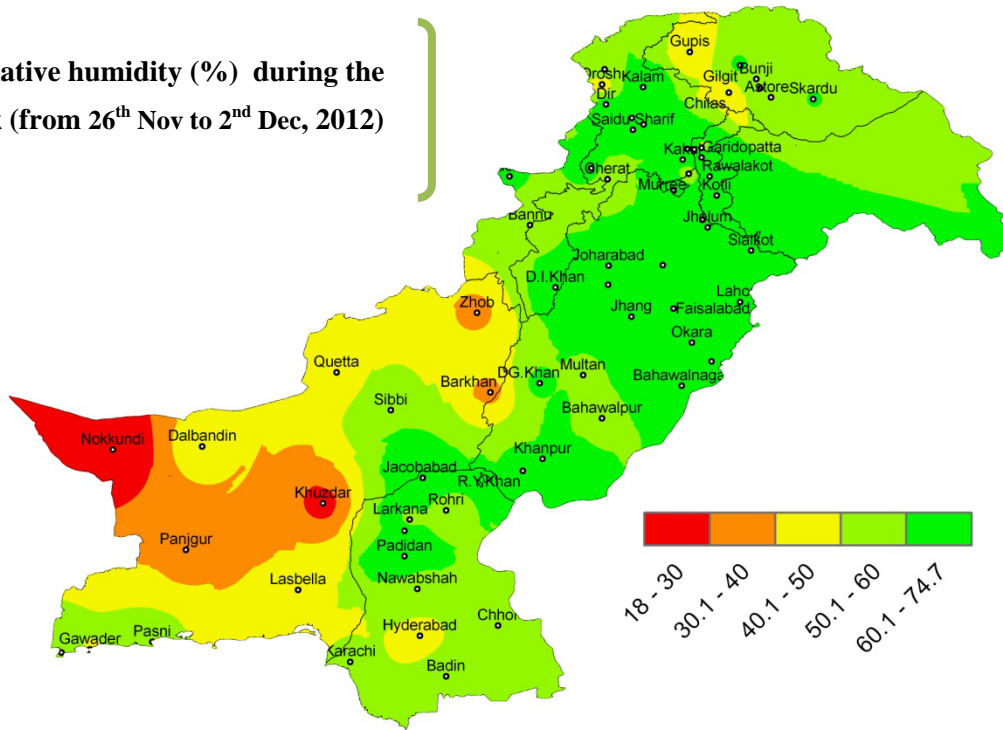
Mean minimum temperature (°C) during the last week (from 26<sup>th</sup> Nov to 2<sup>nd</sup> Dec, 2012)



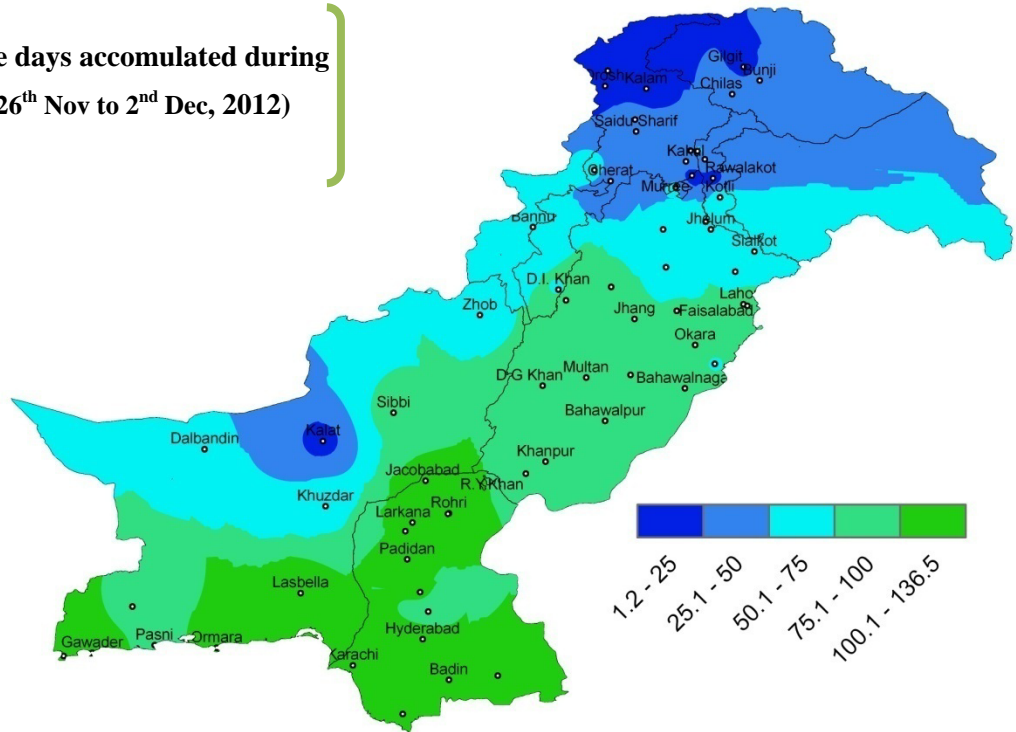
Extreme minimum temperature (°C) during the last week (from 26<sup>th</sup> Nov to 2<sup>nd</sup> Dec, 2012)



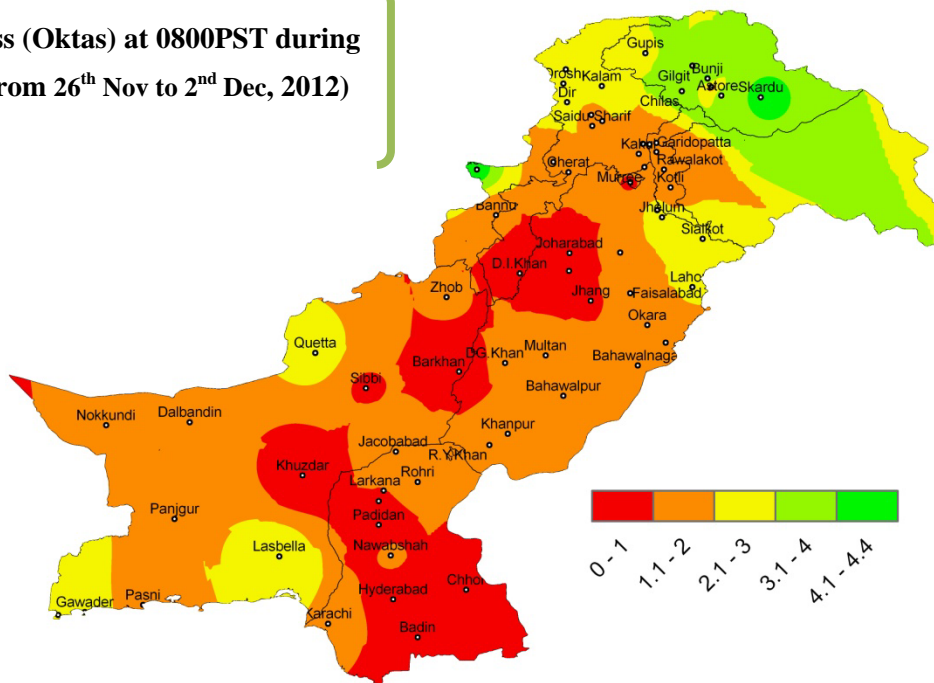
**Mean relative humidity (%) during the last week (from 26<sup>th</sup> Nov to 2<sup>nd</sup> Dec, 2012)**



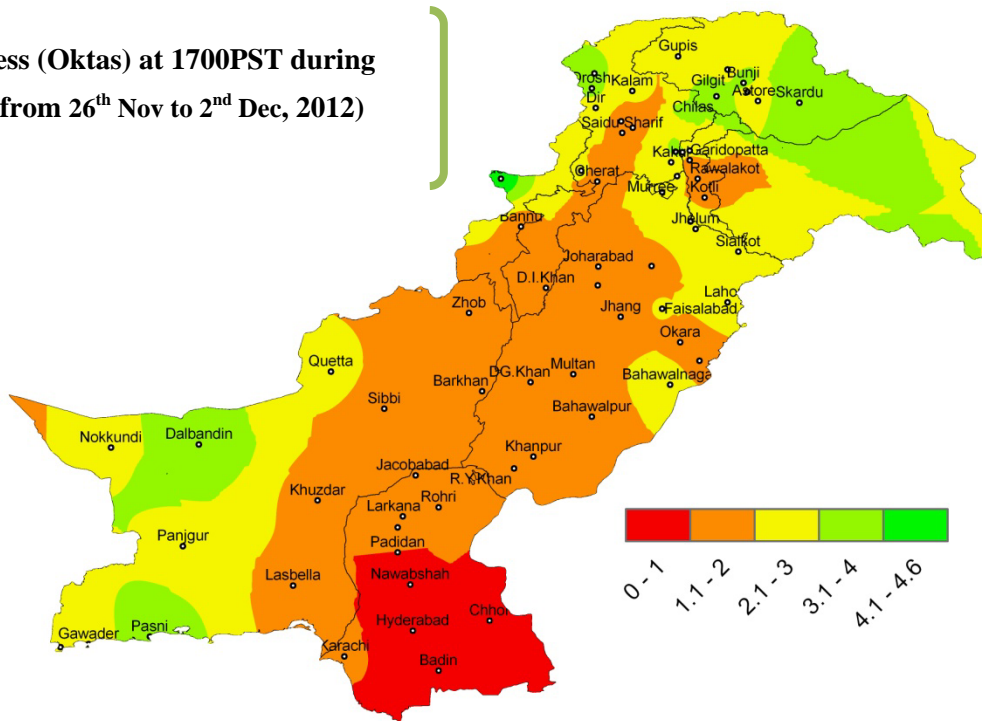
**Total growing degree days accumulated during the last week (from 26<sup>th</sup> Nov to 2<sup>nd</sup> Dec, 2012)**



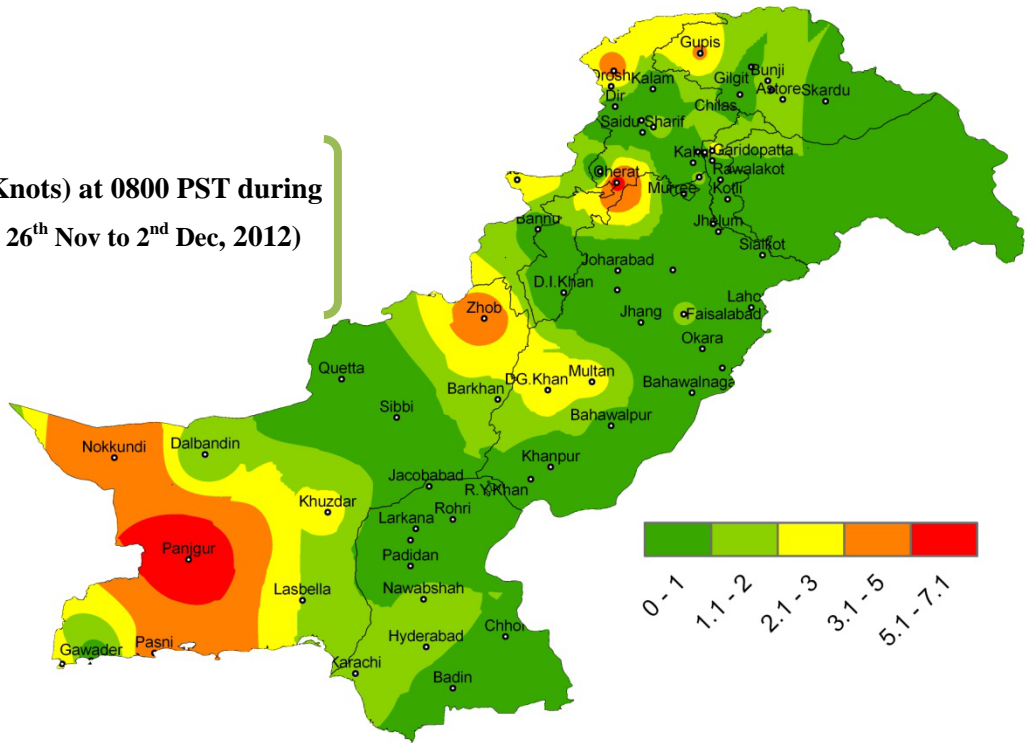
Mean Cloudiness (Oktas) at 0800PST during the last week (from 26<sup>th</sup> Nov to 2<sup>nd</sup> Dec, 2012)



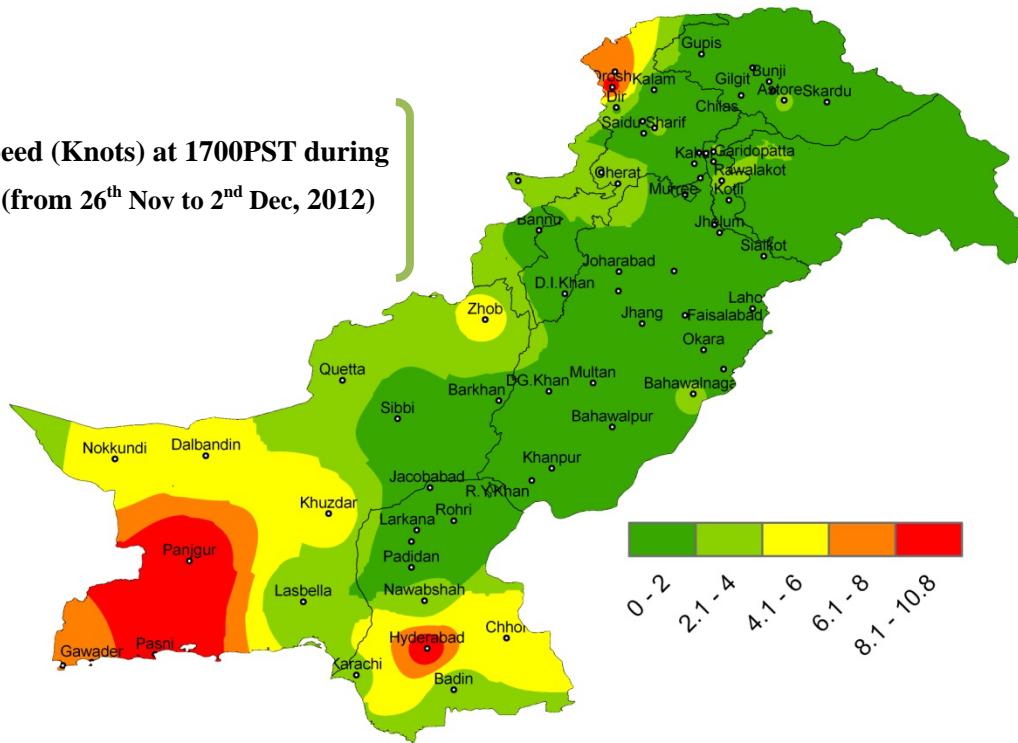
Mean Cloudiness (Oktas) at 1700PST during the last week (from 26<sup>th</sup> Nov to 2<sup>nd</sup> Dec, 2012)



Mean wind speed (Knots) at 0800 PST during the last week (from 26<sup>th</sup> Nov to 2<sup>nd</sup> Dec, 2012)



Mean wind speed (Knots) at 1700 PST during the last week (from 26<sup>th</sup> Nov to 2<sup>nd</sup> Dec, 2012)





## **Weekly Weather advisory for Farmers (from 3<sup>rd</sup> to 9<sup>th</sup> Dec, 2012)**

Continental air would prevail over most parts of the country during the week. A shallow trough of westerly wave is likely to approach northwestern parts of the country on Thursday (Night) & likely to persist during next 36-48 hrs.

### **Punjab including Islamabad:**

Mainly cold & dry weather is expected in most parts of the province during the week. However, light rain may occur at a few places of Rawalpindi division on Friday

### **Khyber Pakhtunkhwa:**

Mainly cold & dry weather is expected in most parts of the province during the week. However, light rain (with light snowfall over the hills) may occur at isolated places of Malakand, Hazara divisions on Friday/Saturday.

### **Balochistan:**

Mainly cold & dry weather is expected in most parts of the province during the week. However, light rain may occur at one or two places of Northeast Balochistan on Friday.

### **Sindh:**

Mainly dry weather is expected in most parts of the province during the week.

### **Kashmir:**

Cold & Dry weather is expected in most parts of Kashmir during the week. However light rain/thunderstorm with snowfall over the hills may occur at isolated places of Kashmir on Friday/Saturday.

### **Gilgit-Baltistan:**

Very Cold & dry weather is expected in most parts of Gilgit-Baltistan during the week. However light rain (with light snowfall over the hills) may occur at a few places of GB on Friday/Saturday.

## **Advices for Crops:**

*Sugarcane:* Farmers are advised to manage irrigation practices as per weather prediction 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. Also farmers are advised to keep control on post-harvesting losses due to pests/insects.

## **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.

## National Weather Data of Selected Cities

(Weekly Data from 26<sup>th</sup> November to 2<sup>nd</sup> December, 2012)

STATIONS	Minimum/Night 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	-3.8	-8.5	***	51	0.0	3.4	3.0	1.7	2.3
Badin	15.0	13.0	116.7	56	0.0	0.0	0.5	0.3	2.3
Bahawalnagar	10.2	8.2	89.3	62	0.0	1.6	3.0	0.0	2.3
Bahawalpur	8.3	4.7	89.7	60	0.0	1.6	1.0	0.6	1.4
Balakot	3.0	1.7	41.3	66	5.1	2.0	3.3	0.6	0.0
Bannu	4.7	2.0	63.3	51	2.0	1.0	1.6	0.6	1.1
Barkhan	5.8	5.0	***	38	0.0	0.3	1.0	1.7	1.4
Bunji	4.0	-0.6	29.3	49	0.0	4.3	3.6	1.4	0.6
Cherat	5.9	4.0	30.3	51	1.0	1.3	1.6	5.7	4.0
Chhor	9.2	6.5	***	56	0.0	0.0	0.0	0.9	4.4
Chilas	5.5	3.5	42.8	45	0.1	3.7	3.6	0.3	0.6
Chitral	0.5	-1.4	14.8	60	9.0	2.4	3.1	4.0	8.0
DG Khan	10.9	9.7	88.3	62	0.0	1.1	1.4	2.6	1.7
D.I. Khan	6.7	4.5	73.5	66	0.2	0.7	1.1	0.3	1.1
Dalbandin	2.4	-1.5	52.8	46	0.0	1.9	3.8	1.1	4.0
Dir	-1.0	-2.0	***	64	23.0	2.6	2.9	0.0	1.7
Drosh	-0.1	-1.2	10.0	42	8.0	2.3	3.1	2.0	9.0
Faisalabad	7.6	5.5	75.3	62	0.0	1.9	2.1	1.1	0.9
Garidopatta	2.3	0.5	46.0	71	9.0	0.9	1.1	0.0	0.0
Gawader	14.7	13.0	122.5	50	0.0	2.6	2.7	0.0	7.0
Gilgit	-0.3	-3.0	19.1	63	0.1	3.0	2.6	0.9	0.0
Gupis	-2.7	-5.0	***	43	1.0	2.9	2.0	3.1	1.7
Hyderabad	14.4	11.5	116.9	45	0.0	0.6	0.7	1.1	9.7
Islamabad	4.0	2.0	54.8	71	3.0	0.9	2.3	0.0	0.0
Jacobabad	14.2	12.0	103.3	70	0.0	1.9	1.8	0.9	0.7
Jhang	7.1	5.0	76.6	68	0.0	0.9	1.0	0.0	0.0
Jhelum	6.2	5.6	71.4	75	6.0	2.1	2.4	0.0	1.1
Jiwani	20.2	19.0	136.5	52	0.0	2.9	2.5	2.9	6.0
Joharabad	5.3	3.0	***	66	0.1	0.6	1.1	0.0	0.6
Kakul	2.0	0.5	33.5	62	1.0	1.4	2.0	0.0	0.6
Kalam	-1.4	-4.7	1.2	72	21.0	2.7	2.1	0.0	0.0
Karachi	15.5	13.5	124.5	51	0.0	2.0	1.2	1.7	3.7
Khanpur	8.7	6.8	90.1	60	0.0	1.7	1.0	0.0	0.9
Khuzdar	5.6	4.5	62.0	27	0.0	0.0	1.7	2.3	5.7
Kotli	6.4	4.0	62.6	67	14.0	1.7	1.7	0.6	0.3
Lahore	9.0	8.0	76.2	60	0.3	2.1	2.7	0.0	1.7
Larkana	12.6	11.5	100.3	58	0.0	1.0	1.5	0.3	2.0
Lasbella	11.8	7.0	113.5	44	0.0	3.0	1.7	2.0	2.0
Lower Dir	4.6	3.0	41.3	66	15.0	1.7	1.6	0.9	1.4
Malam Jabba	0.3	-1.5	***	60	10.0	2.0	1.9	1.6	2.9
Mandibahudin	7.6	6.0	68.9	71	4.4	1.7	1.4	0.6	1.1

Mangla	6.6	3.9	69.4	63	2.0	2.1	2.9	0.9	0.9
Mir Khani	3.9	3.2	***	55	10.0	1.4	2.3	1.1	2.0
Mithi	8.6	5.5	101.1	***	0.0	***	***	***	***
Moen-Jo-Daro	9.4	8.0	102.0	64	0.0	1.0	1.0	0.0	0.3
Multan	9.6	8.0	86.4	59	0.0	2.0	2.0	2.3	1.4
Murree	2.6	-1.0	16.2	55	9.0	1.6	2.6	1.4	0.6
Muzaffarabad	4.7	3.5	53.7	73	9.2	1.6	3.1	0.0	0.4
Nawabshah	11.0	8.5	103.8	57	0.0	1.1	0.5	1.7	2.8
Nokkundi	7.7	3.3	***	18	0.0	1.9	2.8	4.9	4.3
Noorpurthal	6.5	4.5	81.0	68	0.0	0.0	1.0	0.0	0.3
Okara	8.8	6.5	82.9	67	0.1	1.6	1.7	0.6	0.3
Padidan	11.7	9.0	104.5	64	0.0	0.4	1.0	0.0	1.7
Panjgur	7.0	5.0	***	35	0.0	1.9	2.7	7.1	10.8
Parachinar	-2.2	-3.5	***	62	20.0	4.4	4.6	3.0	3.3
Pasni	15.1	11.0	90.5	54	0.0	1.1	3.7	3.4	10.7
Peshawar	4.5	2.7	58.7	65	3.0	1.5	2.1	0.0	2.0
Quetta	-0.6	-2.0	***	43	3.0	2.7	2.6	0.0	4.0
R.Y.Khan	9.7	6.8	95.3	64	0.1	1.1	1.1	0.9	0.9
Rawalakot	-1.1	-3.0	16.3	65	22.0	1.1	1.4	0.0	4.0
Rohri	13.4	11.0	103.8	57	0.0	1.4	1.8	0.6	1.0
Sahiwal	6.8	5.0	74.0	66	0.0	1.3	1.3	0.6	1.4
Saidu Sharif	4.4	3.0	42.8	64	8.0	2.0	2.0	0.0	0.0
Sialkot	7.1	4.7	65.9	72	1.0	2.1	3.0	0.3	0.3
Sibbi	2.1	-1.5	82.7	59	0.0	0.9	1.0	0.0	0.0
Skardu	-4.3	-9.5	82.7	61	0.0	4.4	3.4	0.0	0.0
Zhob	3.6	3.0	***	38	0.0	1.1	1.0	3.6	4.7

\*\*\* Data Not available