

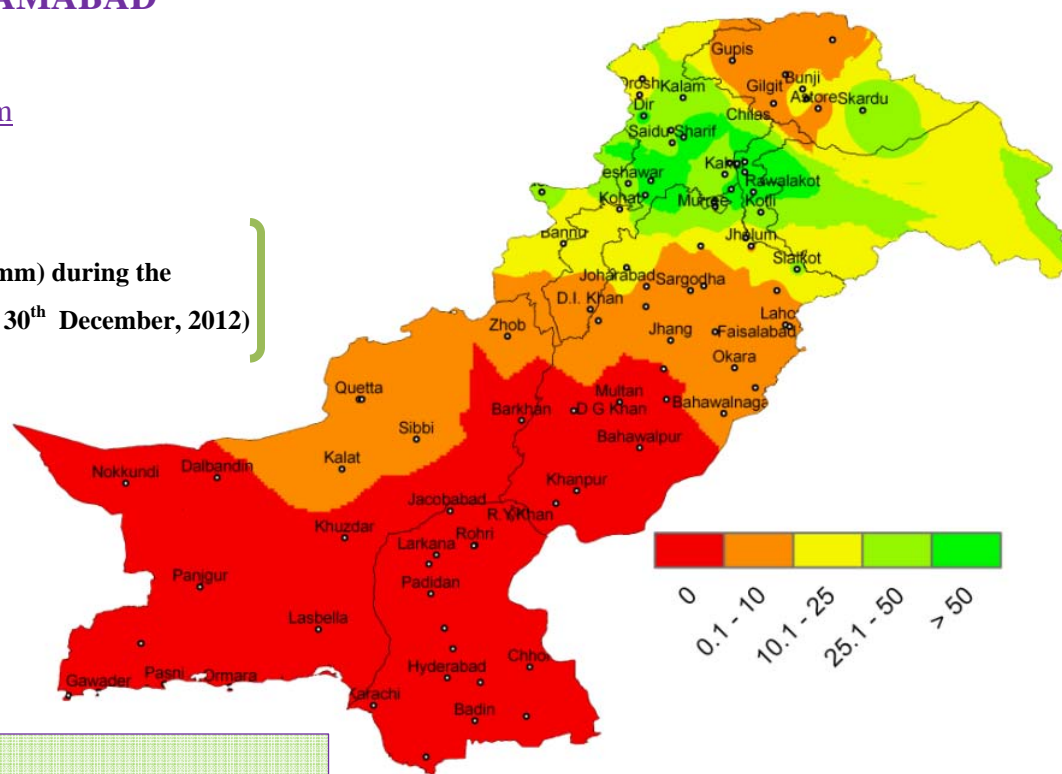
## Weekly Weather and Crop Bulletin for Pakistan

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Rainfall distribution (mm) during the  
last week (from 24<sup>th</sup> to 30<sup>th</sup> December, 2012)



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### Highlights of Past Weather (24<sup>th</sup> to 30<sup>th</sup> December, 2012)

Light to moderate rainfall with snowfall over the hills reported from most of the places in Gilgit Baltistan & Kashmir region, Khyber Pakhtunkwa and Punjab provinces while precipitation in meager amount reported from a few places of Balochistan. Overall the weather remained cold during the week with foggy conditions in the plains located near big rivers especially in Punjab.

Chief Editor: Dr. Khalid Mehmood Malik (Director)

Editor: Dildar Hussain Kazmi (Meteorologist)

## **Punjab**

Light to moderate rainfall reported from most of the places in Punjab with snowfall over the hills during the week. Weekly maximum temperature and minimum temperature recorded as 16.3°C & 8.3°C respectively. For the present season on average 42.0 growing degree days accumulated by the end of last week. Average relative humidity recorded as 78 % and wind speed in the morning/evening recorded as 1.0/1.7 Knots. During the previous week the highest rainfall as well as extreme minimum temperature recorded at Murree as 60.0 mm & -4.5°C respectively.

## **Sindh**

Cold and dry weather reported during the week. Weekly maximum temperature and minimum temperature recorded as 23.7°C & 12.1°C respectively. For the present season on average 78.2 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 1.9/3.5 Knots. During the previous week the extreme minimum temperature recorded as 0.5°C at Mitthi.

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

Light to moderate rainfall reported from most of the agriculture plains of the province with snowfall over the hills during the week. Weekly maximum temperature and minimum temperature recorded as 12.1°C & 3.3°C respectively. For the present season on average 27.2 growing degree days accumulated by the end of last week. Average relative humidity recorded as 70 % and wind speed in the morning/evening recorded as 1.1/1.3 Knots. During the previous week the highest rainfall recorded at Risalpur as 78.0 mm and extreme minimum temperature recorded as -11.1°C at Parachinar.

## **Balochistan**

Rainfall in meager amount reported from a few places of Balochistan with snowfall over the hills during the week. Weekly maximum temperature and minimum temperature recorded as 18.4°C & 6.6°C respectively. For the present season on average 49.1 growing degree days accumulated by the end of last week. Average relative humidity recorded as 50 % and wind speed in the morning/evening recorded as 3.9/6.0 Knots. During the previous week the highest rainfall recorded at Samungli (Quetta) as 1.0 mm and extreme minimum temperature recorded as -13.0°C at Kallat.

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

Light to moderate rainfall reported from most of the places in the region with snowfall over the hills during the week. Weekly maximum temperature and minimum temperature recorded as 10.2°C & 1.6°C respectively. For the present season on average 22.0 growing degree days accumulated by the end of last week. Average relative humidity recorded as 66 % and wind speed in the morning/evening recorded as 0.5/1.2 Knots. During the previous week the highest rainfall recorded at Pattan as 68.0 mm and extreme minimum temperature recorded as -15.0°C at Skardu.

## **Past Weather for Major Agricultural Plains (from 24<sup>th</sup> to 30<sup>th</sup> December, 2012)**

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

Rainfall recorded as 35.6 mm during the last week with cloudiness in the morning/evening as 3.5/4.2 oktas while average relative humidity observed as 81%. Mean night temperature recorded as 4.4°C & for the present season 40.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/1.3 Km/h.

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

Rainfall recorded as 0.2 mm during the last week with cloudiness in the morning/evening as 3.4/3.7 oktas while average relative humidity observed as 82%. Mean night temperature recorded as 5.6°C & for the present season 34.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.4/1.4 Km/h.

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

Dry & cold weather with clear skies observed during the last week while average relative humidity observed as 37%. Mean night temperature recorded as 8.6°C & for the present season 78.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/1.2 Km/h.

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

Precipitation recorded as Trace (indeterminate amount) during the last week with cloudiness in the morning/evening as 2.1/2.8 oktas while average relative humidity observed as 52%. Mean night temperature recorded as -2.7°C & for the present season 10.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 5.8/6.3 Km/h.

## **Past Weather for sub regional Agri-cultural Plains (from 24<sup>th</sup> to 30<sup>th</sup> December, 2012)**

### **Rohri**

Dry & cold weather observed with cloudiness recorded in the morning/evening as 0.9/0.6 oktas and average relative humidity recorded as 57%. Mean night temperature recorded as 9.6°C & for the present season 52.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.4/3.4 Knots.

### **Multan**

Dry & cold weather observed with cloudiness recorded in the morning/evening as 4.1/1.9 oktas and average relative humidity recorded as 75%. Mean night temperature recorded as 9.6°C & for the present season 66.9 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 1.7/3.0 Knots.

### **Lahore**

Rainfall recorded as 5.0 mm during the last week with cloudiness in the morning/evening as 7.6/2.6 oktas while average relative humidity observed as 91%. Mean night temperature recorded as 9.3°C & for the present season 34.7 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 1.4/0.9 Knots.

### **Zhob**

Dry & cold weather observed with cloudiness recorded in the morning/evening as 2.6/3.0 oktas and average relative humidity recorded as 45%. Mean night temperature recorded as 3.0°C & for the present season 51.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 4.9/5.7 Knots.

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

Rainfall recorded as 2.0 mm during the last week with cloudiness in the morning/evening as 4.3/2.3 oktas while average relative humidity observed as 66%. Mean night temperature recorded as 7.7°C & for the present season 48.6 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.6/1.4 Knots.

## **Peshawar**

Rainfall recorded as 31.0 mm during the last week with cloudiness in the morning/evening as 4.9/3.6 oktas while average relative humidity observed as 78%. Mean night temperature recorded as 6.9°C & for the present season 38.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/1.4 Knots.

## **Murree**

Precipitation recorded as 60.0 mm during the last week with cloudiness in the morning/evening as 3.3/4.4 oktas while average relative humidity observed as 63%. Mean night temperature recorded as -0.1°C & wind speed recorded in the morning/evening as 3.1/3.1 Knots.

## **Malam Jabba**

Precipitation recorded as 72.0 mm during the last week with cloudiness in the morning/evening as 4.7/4.7 oktas while average relative humidity observed as 78%. Mean night temperature recorded as -3.3°C & wind speed recorded in the morning/evening as 2.6/1.1 Knots.

## **Gilgit.**

Precipitation recorded as 5.4 mm during the last week with cloudiness in the morning/evening as 4.0/4.7 oktas while average relative humidity observed as 74%. Mean night temperature recorded as 2.0°C & wind recorded in the morning/evening as Calm (no wind).

## **Skardu**

Precipitation recorded as 40.0 mm during the last week with cloudiness in the morning/evening as 6.4/6.0 oktas while average relative humidity observed as 78%. Mean night temperature recorded as -5.9°C and wind recorded in the morning/evening as Calm (no wind).

## **Crop Situation for major agricultural plains**

*(based on data from Regional Agromet Centres)*

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

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

**Wheat (Chakwal-97):** Good condition, at *Third Leaf* stage.

### **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 *Third leaf* stage

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

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

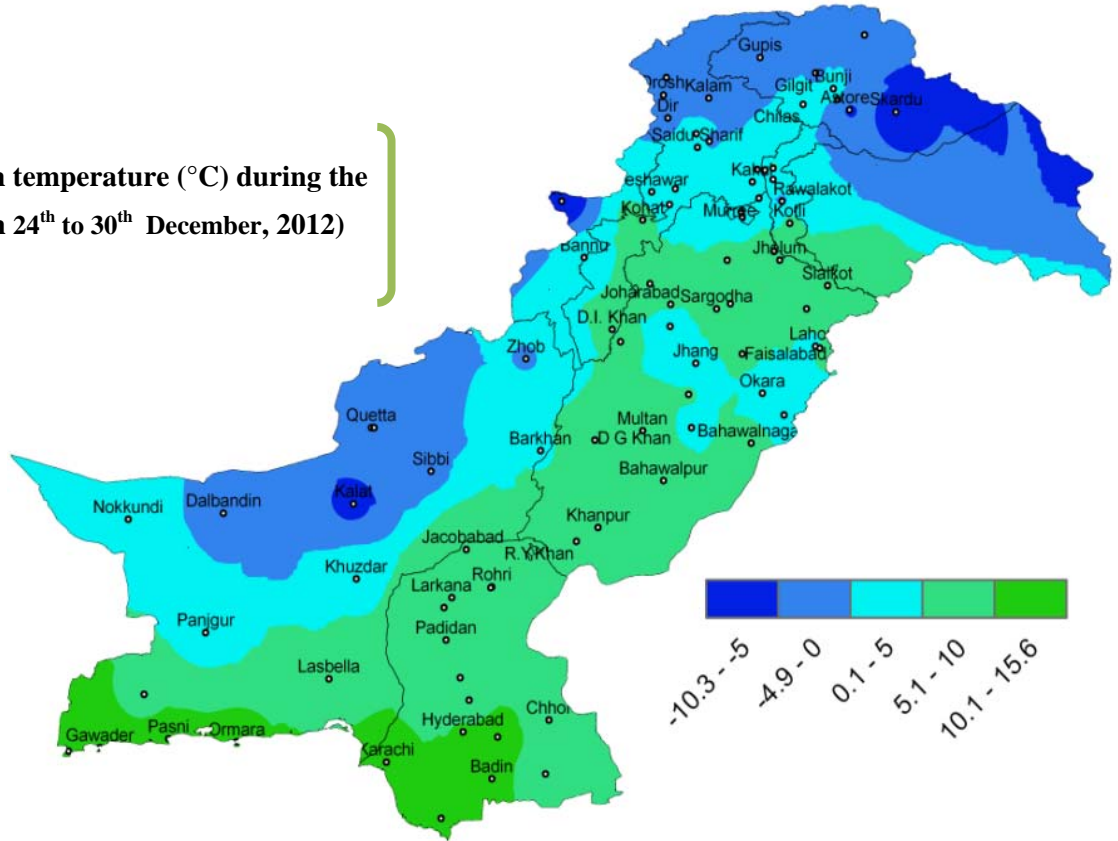
**Wheat (TJ-83):** Good condition, at *Tillering* stage.

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

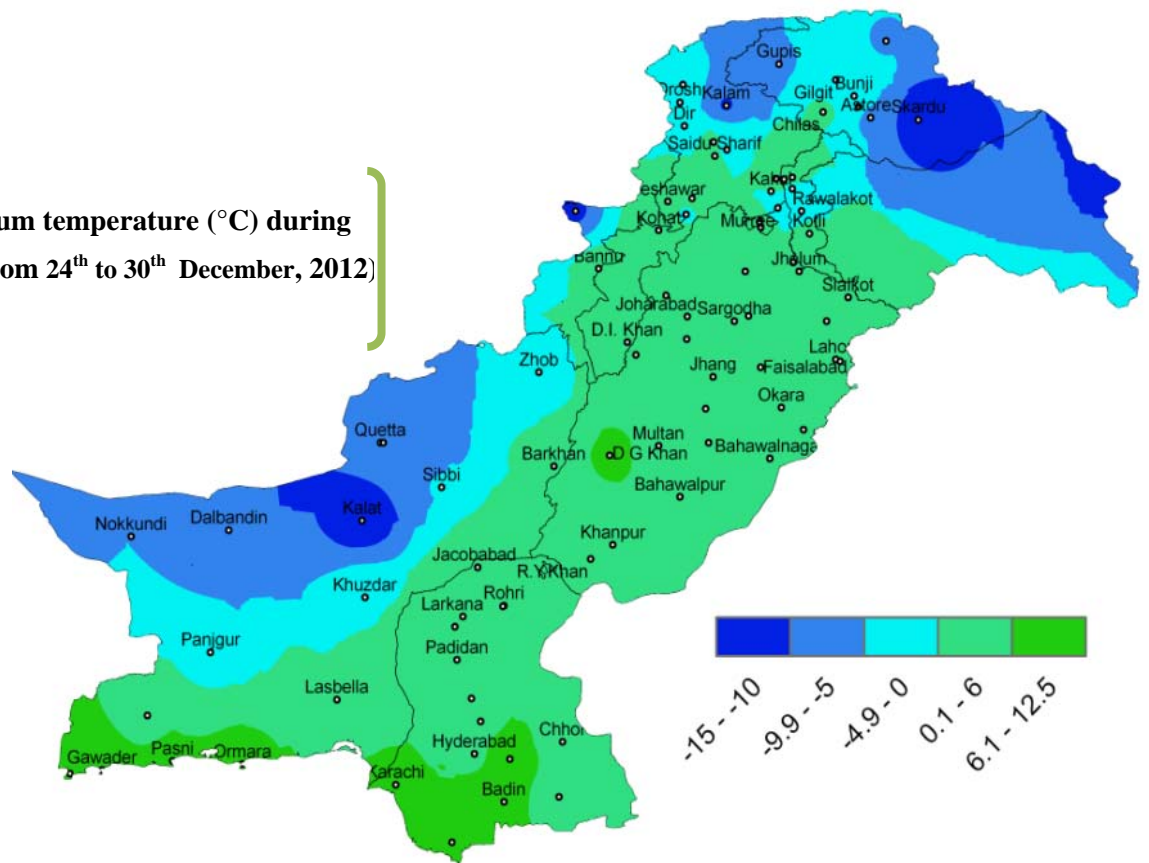
There is presently one crop (rainfed conditions) grown in the fields as detailed below.

**Wheat:** Good condition, at *Third leaf* stage.

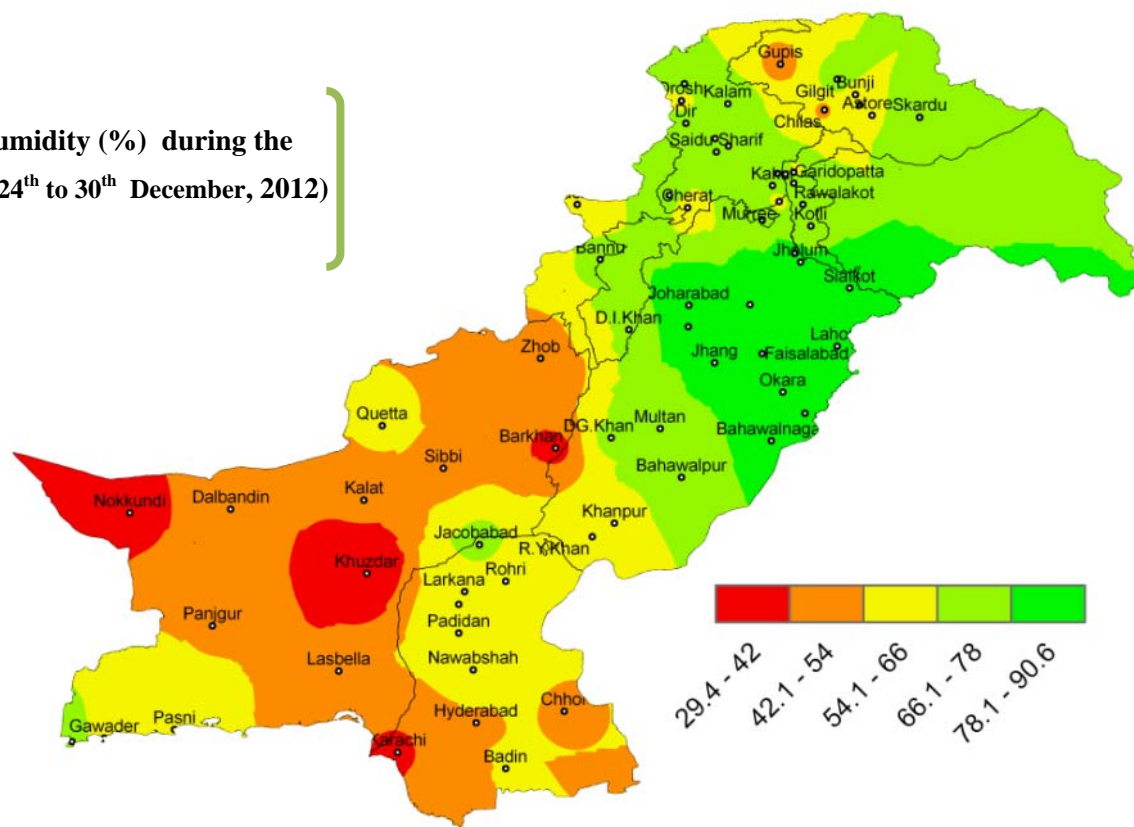
Mean minimum temperature (°C) during the last week (from 24<sup>th</sup> to 30<sup>th</sup> December, 2012)



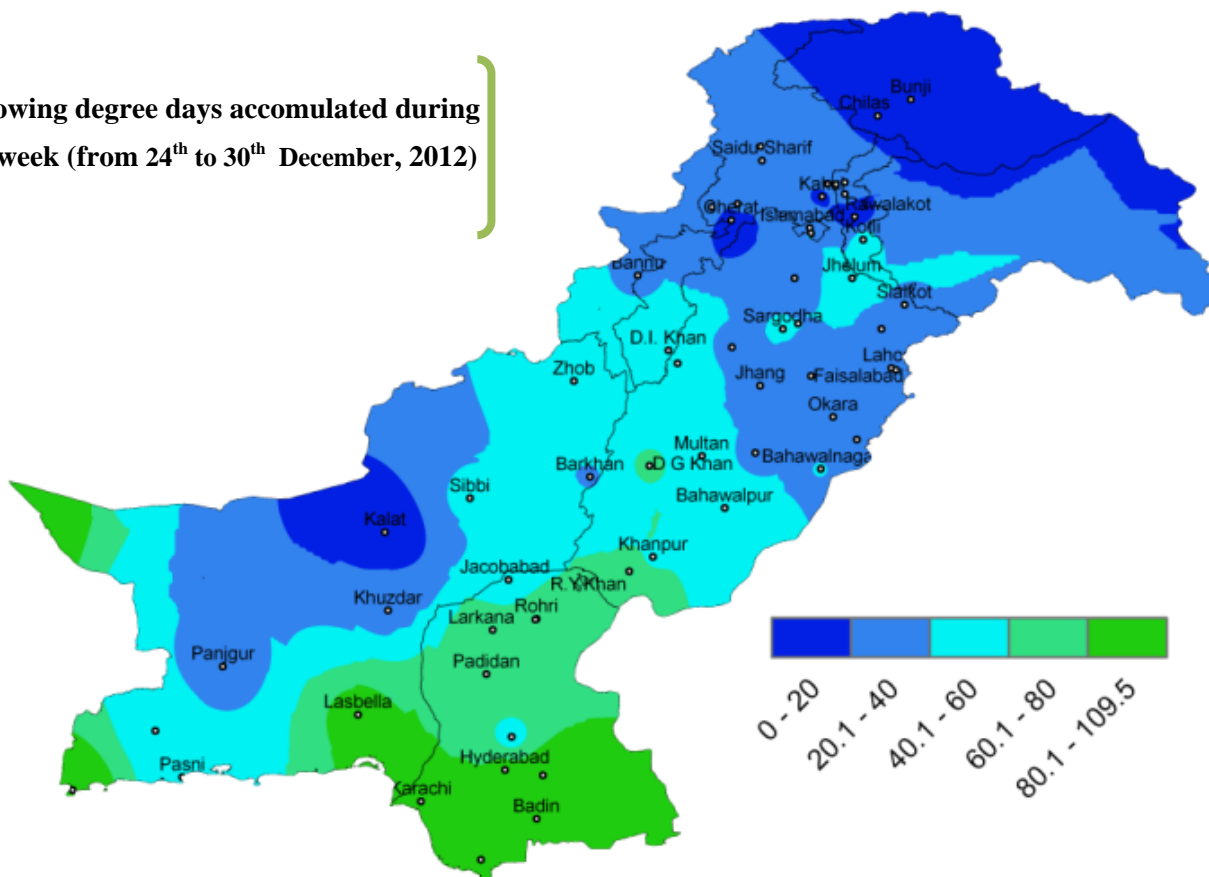
Extreme minimum temperature (°C) during the last week (from 24<sup>th</sup> to 30<sup>th</sup> December, 2012)



Mean relative humidity (%) during the last week (from 24<sup>th</sup> to 30<sup>th</sup> December, 2012)

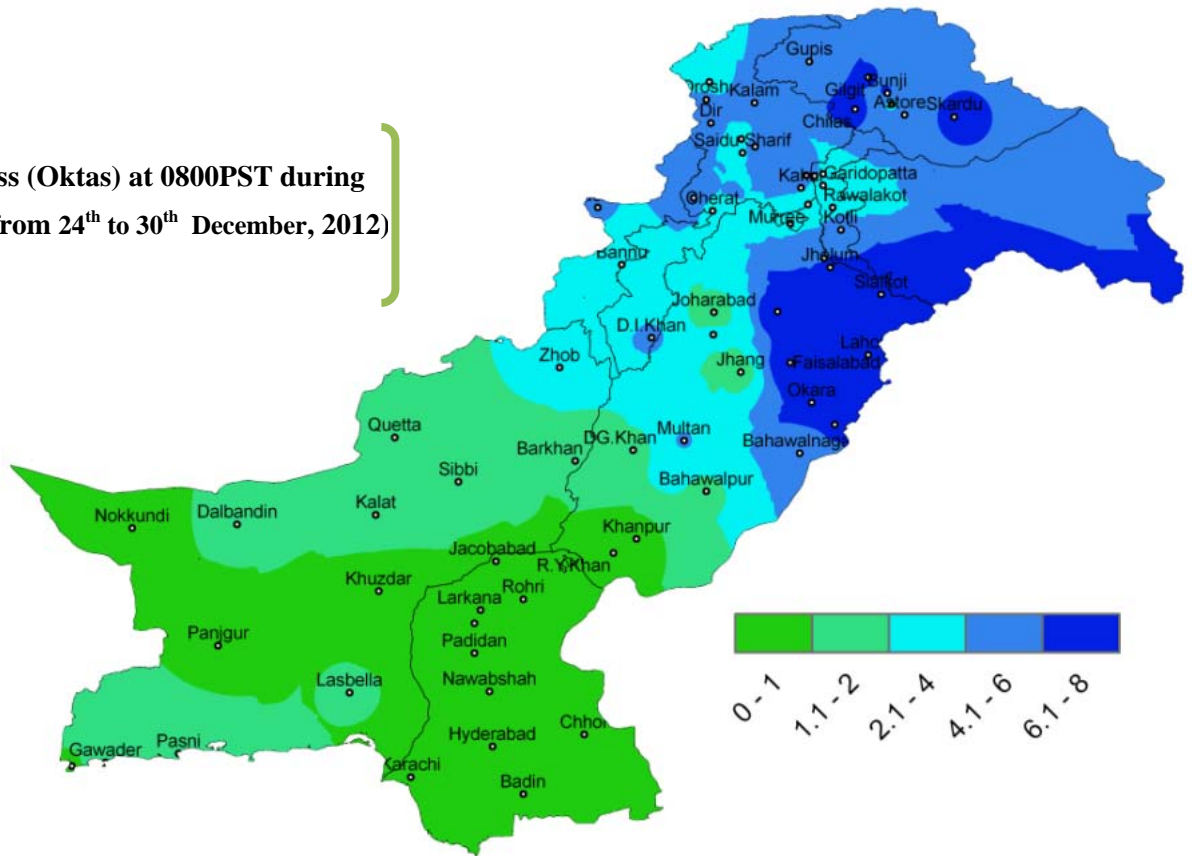


Total growing degree days accumulated during the last week (from 24<sup>th</sup> to 30<sup>th</sup> December, 2012)

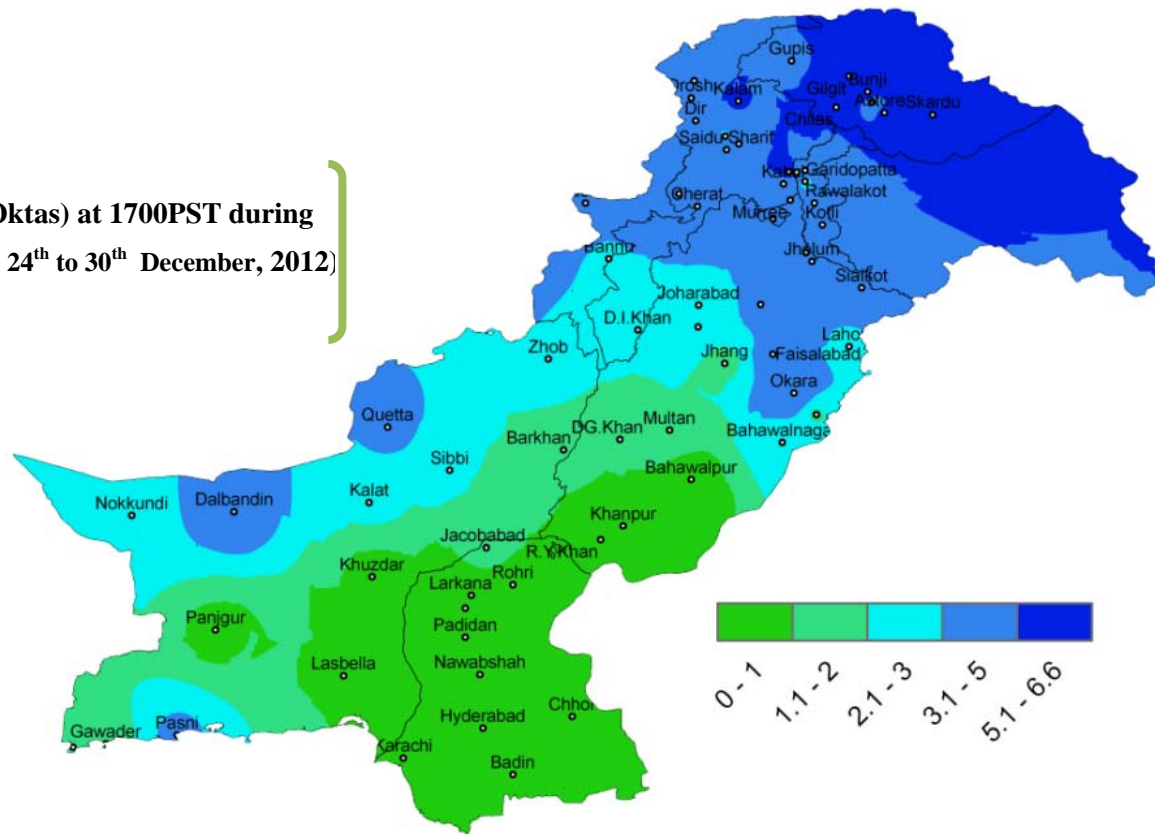




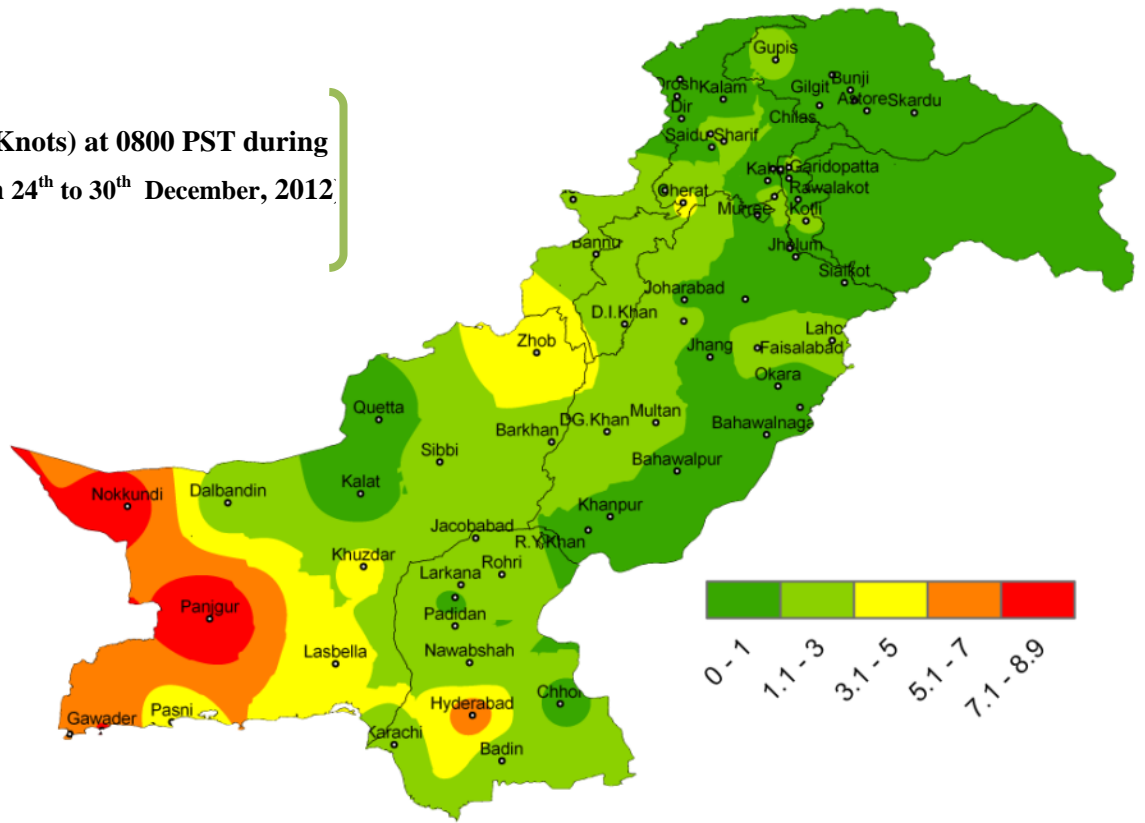
Mean Cloudiness (Oktas) at 0800PST during the last week (from 24<sup>th</sup> to 30<sup>th</sup> December, 2012)



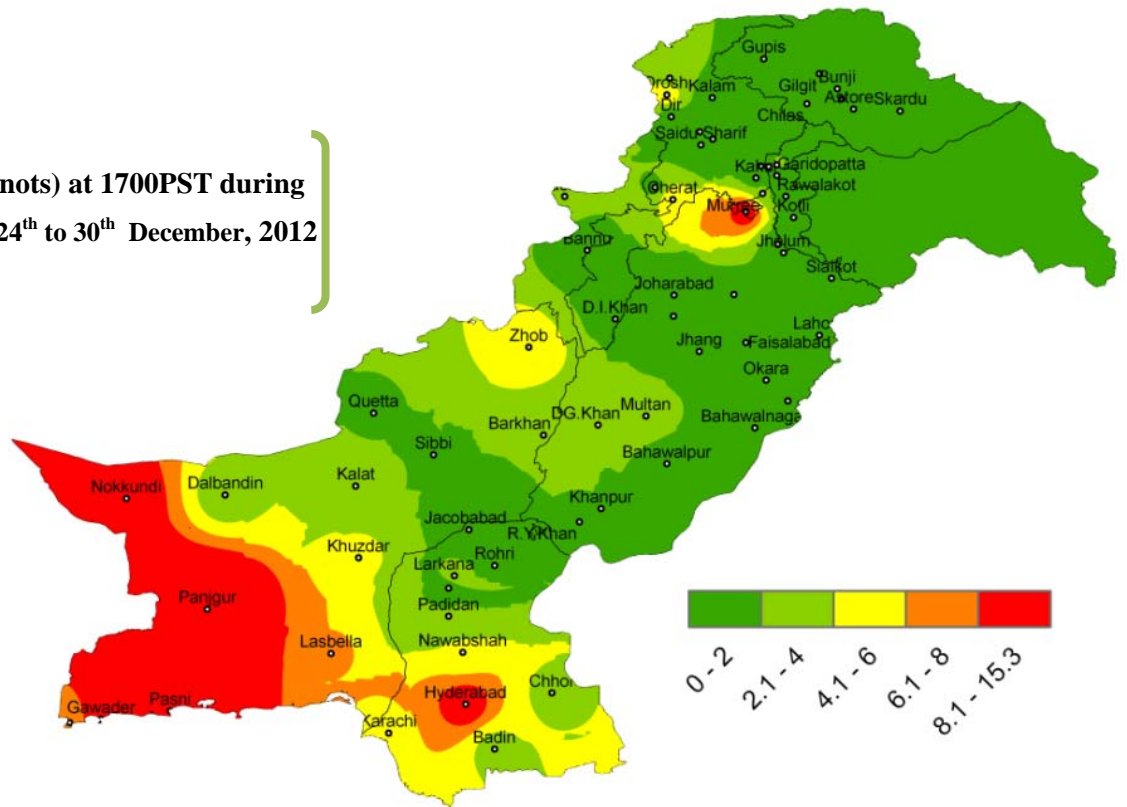
Mean Cloudiness (Oktas) at 1700PST during the last week (from 24<sup>th</sup> to 30<sup>th</sup> December, 2012)



Mean wind speed (Knots) at 0800 PST during the last week (from 24<sup>th</sup> to 30<sup>th</sup> December, 2012)



Mean wind speed (Knots) at 1700 PST during the last week (from 24<sup>th</sup> to 30<sup>th</sup> December, 2012)





## **Weekly Weather advisory for Farmers (from 31<sup>st</sup> Dec, 2012 to 6<sup>th</sup> Jan, 2013)**

Continental air would prevail over most parts of the country during the week. A shallow westerly wave is also expected to approach upper parts of the Country on Thursday (evening/night) and likely to persist during next 02 days.

### **Punjab including Islamabad:**

Mainly cold & dry weather is expected in most parts of the province during the week. However, light rain (with snowfall over the hills) is also likely at isolated places of northern Punjab on Friday/Saturday. Foggy conditions would prevail over plain areas of the province during late night/morning hours.

### **Khyber Pakhtunkhwa:**

Mainly cold & dry weather is expected in most parts of the province during the week. However, mostly partly cloudy to cloudy conditions with chances isolated light rain (with snowfall over the hills) in Malakand Divisions on Tuesday & Saturday, while isolated light rain (with snowfall over the hills) is also expected in upper KP on Thursday (night)/ Friday.

### **Balochistan:**

Mainly cold to very cold & dry weather is expected in most parts of the province during the week.

### **Sindh:**

Mainly cold & dry weather is expected in most parts of the province during the week. Foggy conditions would prevail over Sukkur division during late night/morning hours.

### **Kashmir:**

Very Cold & Dry weather is expected in most parts of Kashmir during the week. However, mostly partly cloudy to cloudy conditions expected with chances isolated light rain (with snowfall over the hills) on Tuesday and during Thursday (night) to Saturday.

### **Gilgit-Baltistan:**

Very Cold & dry weather is expected in most parts of Gilgit-Baltistan during the week. However, mostly partly cloudy to cloudy conditions expected with chances isolated light rain (with snowfall over the hills) on Tuesday and during Thursday (night) to Saturday.

### **Advices for Crops:**

***Wheat/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.

### **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.

## National Weather Data of Selected Cities

(Weekly Data from 24<sup>th</sup> December to 30<sup>th</sup> December, 2012)

STATIONS	Minimum/Night Temperature (°C)		Growing Deg. Days	Relative Humidity (%)	Rainfall (mm)	Cloudiness (Oktas) 0800 PST	Cloudiness (Oktas) 1700 PST	Wind Speed (Knots) 0800 PST	Wind Speed (Knots) 1700 PST
	Mean	Lowest Min							
Astore	-5.9	-8.5	***	65	0.0	5.6	5.1	0.6	1.7
Badin	11.4	8.5	93.8	54	0.0	0.0	0.7	1.7	3.0
Bahawalnagar	5.8	2.7	40.6	83	0.0	4.4	2.3	0.6	0.9
Bahawalpur	5.5	2.8	54.5	70	0.0	1.7	0.3	0.0	0.6
Balakot	3.1	1.8	26.8	71	41.0	5.1	5.7	0.0	0.7
Bannu	3.4	2.4	38.2	70	16.1	2.4	2.7	2.0	0.0
Barkhan	4.6	1.5	38.8	39	0.0	1.0	1.4	2.0	2.4
Bunji	1.9	-1.1	4.6	63	11.0	6.4	6.7	0.3	0.3
Cherat	3.1	-1.0	2.0	57	52.0	3.6	4.4	3.7	6.0
Chhor	6.5	1.2	***	54	0.0	0.1	0.3	0.6	3.3
Chilas	2.5	1.5	12.8	52	6.0	6.6	5.3	0.0	0.3
Chitral	-2.2	-2.8	***	73	17.0	3.6	4.4	0.6	2.6
D G Khan	7.9	7.3	62.6	66	0.0	4.3	2.3	2.6	1.4
D.I. Khan	5.4	4.5	48.6	47	2.0	1.3	4.0	2.0	2.5
Dalbandin	-2.2	-9.0	***	69	0.0	1.6	1.0	2.9	2.9
Dir	-2.2	-3.2	***	78	55.0	4.4	4.7	0.0	0.6
Drosh	-2.2	-3.5	***	58	17.0	4.1	4.7	0.0	6.1
Faisalabad	5.3	2.5	31.6	89	0.5	8.0	3.4	2.0	1.1
Garidopatta	0.6	-2.0	24.0	79	65.0	1.7	2.3	0.0	0.0
Gawader	12.1	8.0	***	60	0.0	1.7	1.4	7.1	10.4
Gilgit	-0.8	-5.0	***	74	5.4	6.1	5.4	0.0	0.0
Gupis	-4.8	-6.0	***	51	2.0	4.0	4.7	1.4	0.9
Hyderabad	10.4	4.5	84.9	53	0.0	0.0	0.0	6.3	10.0
Islamabad	3.4	2.5	36.8	79	46.0	3.9	4.0	0.0	10.3
Jacobabad	9.4	5.5	***	70	0.0	1.0	1.6	1.4	0.8
Jhang	4.5	3.2	37.0	79	0.0	1.0	1.6	0.3	0.9
Jhelum	6.1	4.5	46.5	82	8.4	6.7	4.1	0.3	0.9
Jiwani	15.6	7.0	109.6	73	0.0	0.8	1.7	5.0	6.0
Joharabad	5.1	3.0	39.6	89	8.0	1.2	2.3	0.9	0.3
Kakul	1.5	0.0	14.1	67	34.0	4.0	4.4	0.0	0.3
Kalam	-4.7	-10.6	***	74	47.0	4.4	5.3	0.0	0.0
KLT	-5.8	-13.0	0.0	43	0.0	1.4	2.2	0.0	2.7
Karachi	11.9	8.0	98.0	40	0.0	0.6	0.7	2.3	5.3
Khanpur	5.7	4.0	59.6	64	0.0	0.9	0.7	0.6	2.0
Khuzdar	3.4	-1.0	36.3	29	0.0	0.4	0.7	3.4	4.6

Kotli	5.8	3.5	49.1	70	36.0	4.6	4.6	1.4	1.6
Lahore	5.9	3.8	34.7	91	5.0	7.6	2.6	1.4	0.9
Larkana	8.5	5.0	72.0	60	0.0	0.8	0.6	2.6	2.6
Lasbella	7.9	1.0	85.5	45	0.0	1.1	1.0	3.7	6.3
Lower Dir	3.1	1.0	24.8	70	31.0	3.4	2.7	1.4	0.6
M.B.din	6.7	4.0	40.1	79	6.1	7.1	3.4	0.3	0.6
Malam Jabba	-1.4	-3.0	***	78	72.0	4.7	4.7	2.6	1.1
Mangla	6.2	4.2	***	79	16.0	5.9	3.7	0.6	0.7
Mir Khani	0.1	-1.8	***	63	20.0	3.2	4.0	0.0	0.7
Moen-Jo-Daro	6.5	3.0	***	62	0.0	0.0	0.0	0.3	1.3
Multan	6.5	5.2	52.7	75	0.0	4.1	1.9	1.4	3.4
Murree	0.2	-4.5	***	63	60.0	3.3	4.4	3.1	3.1
Muzaffarabad	3.8	1.8	31.1	74	51.0	4.1	4.7	0.0	0.4
Nawabshah	8.1	4.0	***	57	0.0	0.4	1.0	1.3	4.6
Nokkundi	4.6	-5.0	***	38	0.0	0.6	2.6	7.4	10.0
Noorpurthal	4.1	3.5	37.3	83	10.0	2.3	2.7	1.4	0.6
Okara	4.9	2.5	29.0	81	1.0	6.9	4.7	0.6	0.6
Padidan	8.3	4.5	74.5	59	0.0	0.6	0.5	1.1	2.0
Panjgur	1.7	-4.0	28.8	53	0.0	0.4	0.6	8.9	15.3
Parachinar	-10.3	-11.1	***	54	28.0	4.2	4.7	3.0	3.3
Pasni	12.4	7.5	45.3	65	0.0	2.0	3.3	3.7	8.7
Pattan	5.9	1.5	29.5	59	68.0	4.0	4.9	2.0	3.1
Peshawar	4.7	3.4	38.2	78	35.1	4.9	3.6	0.9	1.4
Quetta	-4.0	-8.5	***	59	0.2	1.7	3.5	0.3	1.7
R.Y.Khan	6.1	3.6	62.4	61	0.0	0.9	0.6	0.9	1.7
Rawalakot	-0.4	-3.0	2.8	71	62.0	4.0	3.3	0.0	0.0
Rohri	10.2	6.0	75.9	57	0.0	0.9	0.6	1.1	2.0
Sahiwal	3.8	0.8	26.8	87	0.0	6.1	1.9	0.3	1.4
Saidu Sharif	3.6	2.5	22.9	73	42.0	3.9	4.0	0.0	0.0
Sialkot	7.0	5.5	37.8	89	27.0	8.0	4.3	0.3	0.3
Sibbi	-0.4	-4.5	44.2	49	0.0	1.1	2.0	2.0	2.0
Skardu	-7.1	-15.0	***	78	40.0	6.4	6.0	0.0	0.0
Zhob	-0.3	-4.0	51.0	45	0.0	2.6	3.0	4.9	5.7

\*\*\* Data Not available