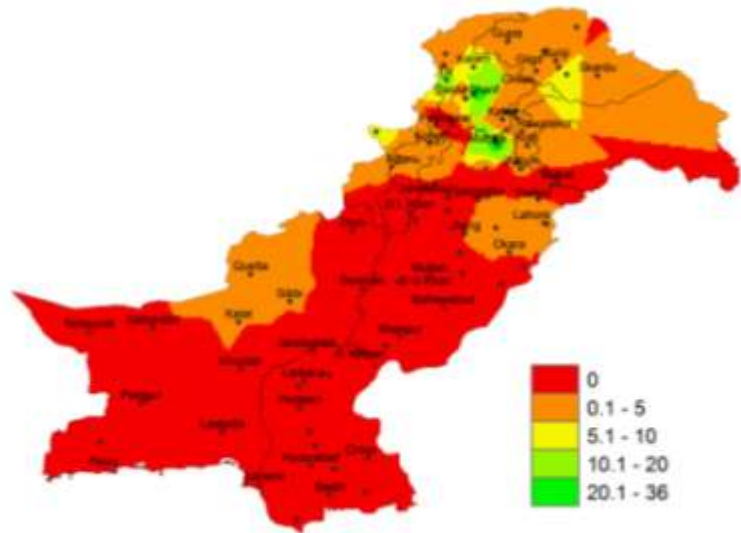


Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall Distribution (mm) during the
Previous Week (From 21st to 27th Dec, 2015)**

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Highlights of Past Weather (from 21st to 27th Dec, 2015)

Mainly normal day time temperature was reported from most parts of the country during the week.

Province wise distribution of rainfall reported as follows:

- Light to moderate rainfall reported at many places in Khyber Pakhtunkhwa and Gilgit-Baltistan & Kashmir regions.
- Light rainfall reported at few places in Punjab.
- Light rainfall reported only at a single station (Quetta=1.1mm) in Balochistan.
- Dry weather was reported in Sindh.

Patron-in-Chief: Dr. Ghulam Rasul (Director General)

Chief Editor: Ch. Muhammad Aslam (Director)

Editor: Asma Jawad Hashmi (Deputy Director)

Past Weather of Provinces (from 21st to 27th**Dec, 2015)****Punjab**

Light rainfall reported at few places in Punjab during the week. Weekly maximum and minimum temperatures recorded 19.7°C & 4.1°C respectively. For the present season average 51.5 growing degree days accumulated by the end of last week. Average relative humidity recorded 66% and wind speed in the morning/evening recorded 0.5/0.9Knots. During the previous week the highest amount of rainfall was recorded 0.1 mm at Faisalabad & lowest minimum temperature recorded -4.5°C at Murree.

Sindh

Dry weather was reported in Sindh during the week. Weekly maximum and minimum temperatures recorded 24.0°C & 7.3°C respectively. For the present season average 81.4 growing degree days accumulated by the end of last week. Average relative humidity recorded 52% and wind speed in the morning/evening recorded 0.7/1.8Knots. During the previous week the lowest minimum temperature recorded 1.0°C at Mithi.

Khyber Pakhtunkhwa

Light to moderate rainfall reported at many places in Khyber Pakhtunkhwa province during the week. Weekly maximum and minimum temperatures recorded 27.7°C & 0.1°C respectively. For the present season average 76.7 growing degree days accumulated by the end of last week. Average relative humidity recorded 68% and wind speed in the morning/evening recorded 1.0/1.4Knots. During the previous week the highest amount of rainfall was recorded 32.0mm at Malam Jabba & lowest minimum temperature recorded -11.5°C at Kalam.

Balochistan

Light rainfall reported only at a single station in Balochistan during the week. Weekly maximum and minimum temperatures recorded 20.1°C & 4.7°C respectively. For the present season average 60.9 growing degree days accumulated by the end of last week. Average relative humidity recorded 46% and wind speed in the morning/evening recorded 2.9/3.8Knots. During the previous week the lowest minimum temperature recorded -11.5°C at Kalat.

Gilgit-Baltistan and Azad Jammu & Kashmir

Light to moderate rainfall reported at many places in Gilgit-Baltistan & Kashmir regions during the week. Weekly maximum and minimum temperatures recorded 9.3°C & -2.5°C respectively. Average relative humidity recorded 62% and wind speed in the morning/evening recorded 1.1/1.4Knots. During the previous week the highest amount of rainfall was recorded 10.1mm at Astore & lowest minimum temperature recorded -10.5°C at Astore.

Past Weather for Major Agricultural Plains**(from 21st to 27th Dec, 2015)****Rawalpindi (Potohar region)**

Rainfall reported as 0.1mm during the week; however cloudiness in the morning/evening recorded 3.7/3.1Oktas while, average relative humidity observed 76%. Mean night time temperature recorded 3.5°C & for the present season 36.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.2/1.7Knots.

Faisalabad (Central Punjab)

Rainfall reported as 0.1mm during the week; however cloudiness in the morning/evening recorded 3.1/0.7Oktas while, average relative humidity observed as 72%. Mean night time temperature recorded 4.5°C & for the present season 52.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.2/0.5Knots.

Tandojam (Lower Sindh)

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.0/0.0Oktas while, average relative humidity observed as 63%. Mean night time temperature recorded 6.9°C & for the present season 70.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/1.1Knots.

Quetta (Northern Balochistan)

Rainfall reported as 0.1mm during the week; however cloudiness in the morning/evening recorded 3.1/2.6Oktas while, average relative humidity observed as 46%. Mean night time temperature recorded -0.8°C by the end of last week. Wind speed recorded in the morning/evening as 1.1/3.1Knots.

Usta Muhammad (Eastern Balochistan)

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 2.3/4.7Oktas while, average relative humidity observed as 63%. Mean night time temperature recorded 6.7°C & for the present season 66.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.1/1.1Knots.

Past Weather for Sub-Regional Agricultural**Plains (from 21st to 27th Dec, 2015)****Multan**

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 2.6/2.9Oktas while, average relative humidity observed as 64%. Mean night time temperature recorded 6.1°C & for the present season 58.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.1/1.7Knots.

Lahore

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 1.7/3.0Oktas while, average relative humidity observed as 59%. Mean night time temperature recorded 4.2°C & for the present season 54.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/2.0Knots.

Zhob

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 1.3/2.9Oktas while, average relative humidity observed as 36%. Mean night time temperature recorded 0.0°C by the end of last week. Wind speed recorded in the morning/evening as 18.1/5.6 Knots.

D.I. Khan

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 0.0/2.4Oktas while, average relative humidity observed as 67%. Mean night time temperature recorded 4.0°C & for the present season 117.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.0Knots.

Peshawar

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 3.6/5.1Oktas while, average relative humidity observed as 72%. Mean night time temperature recorded 2.5°C & for the present season 98.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.1/0.0Knots.

Murree

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 3.9/5.1Oktas while, average relative humidity observed as 58%. Mean night time temperature recorded -2.9°C by the end of last week. Wind speed recorded in the morning/evening 1.7/1.9Knots.

Kalam

Rainfall reported as 9.0mm during the week; however cloudiness in the morning/evening recorded 5.6/6.1Oktas while, average relative humidity observed as 78%. Mean night time temperature recorded -5.4°C by the end of last week. Wind speed recorded in the morning/evening 0.0/0.0Knots.

Gilgit

Rainfall reported as 0.1mm during the week; however cloudiness in the morning/evening recorded 5.0/5.9Oktas while, average relative humidity observed as 66%. Mean night time temperature recorded -3.3°C by the end of last week. Wind speed recorded in the morning/evening as 0.3/0.0Knots.

Skardu

Dry weather was reported during the week; however cloudiness in the morning/evening recorded 4.9/5.1Oktas while, average relative humidity observed as 79%. Mean night time temperature recorded -8.2°C by the end of last week. Wind speed recorded in the morning/evening as 0.0/0.0Knots.

Crop Situation for Major Agricultural Plains**(Based on data from Regional Agromet Centres)****Potohar Region (Rawalpindi)**

There is presently no crop grown in the fields of RAMC Rawalpindi.

Central Punjab (Faisalabad)

There is presently one crop (irrigated condition) grown in the fields of RAMC Faisalabad.

Wheat: Good condition at *Tillering* stage.

Lower Sindh (Tandojam)

There is presently one crop (irrigated condition) grown in the fields of RAMC Tandojam.

Wheat: Good condition at *Third Leaf* stage.

Northern Balochistan (Quetta)

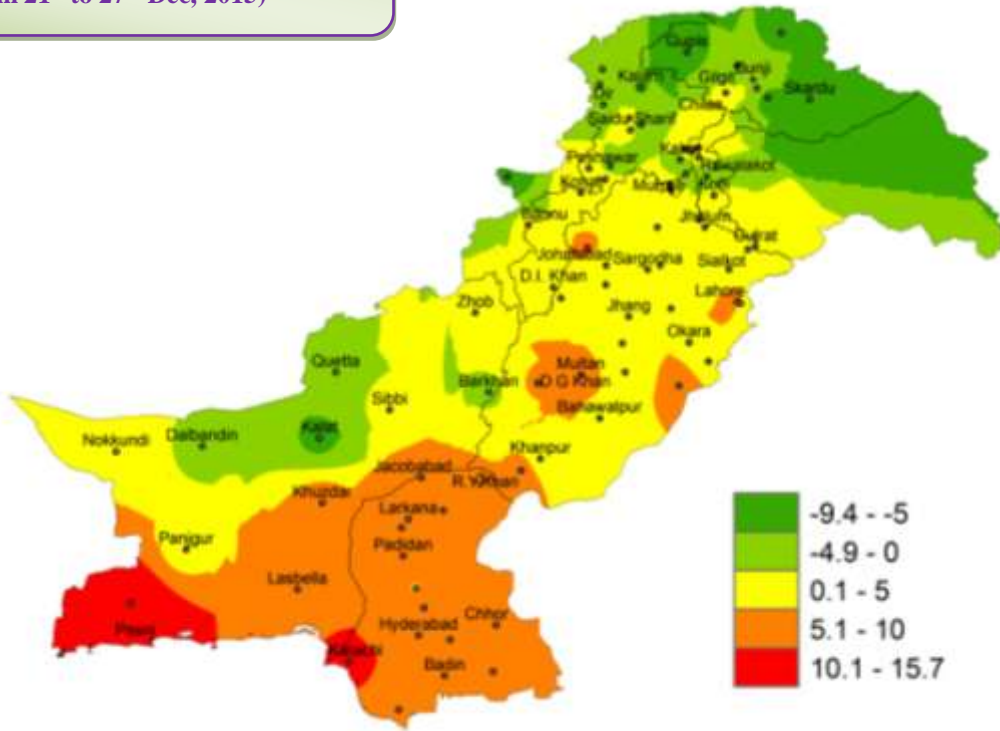
There is presently no crop grown in the fields of RAMC Quetta.

Eastern Balochistan (Usta Muhammad)

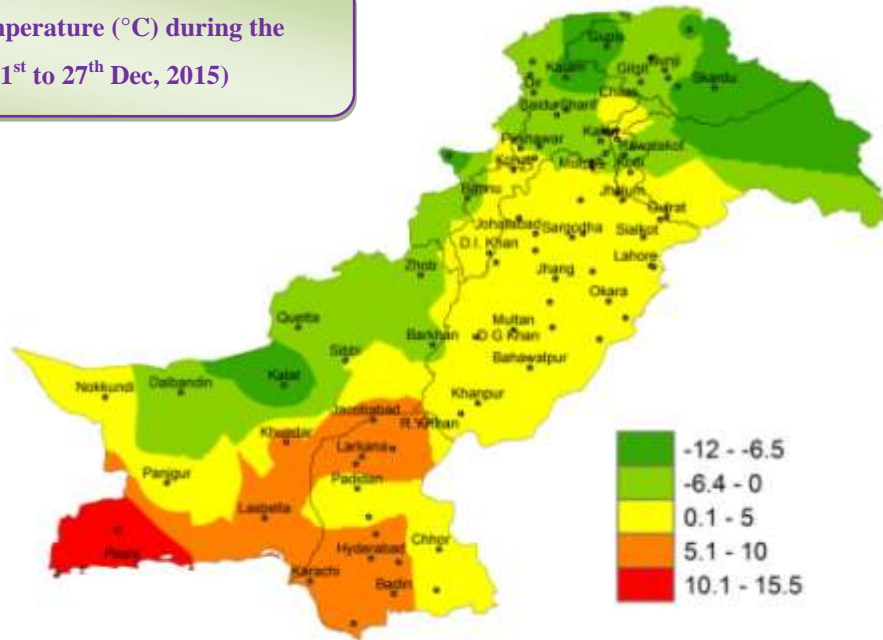
There is presently one crop (irrigated condition) grown in the fields of RAMC Usta Muhammad.

Wheat: Good condition at *True Leaf* stage.

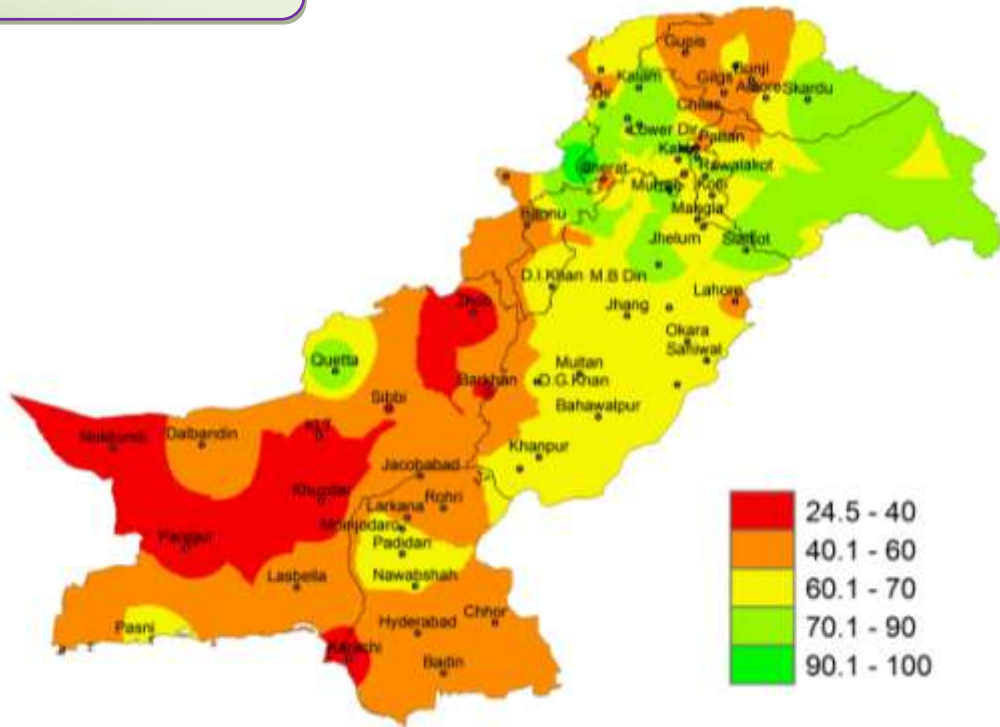
Mean Minimum Temperature (°C) during the Previous week (from 21st to 27th Dec, 2015)



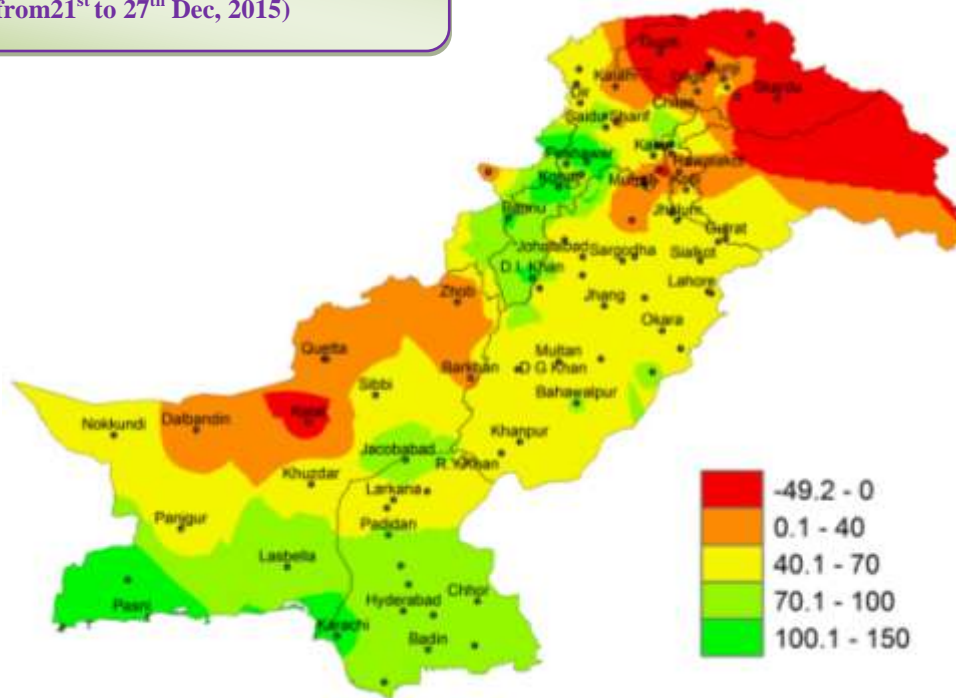
Lowest Minimum Temperature (°C) during the Previous week (from 21st to 27th Dec, 2015)



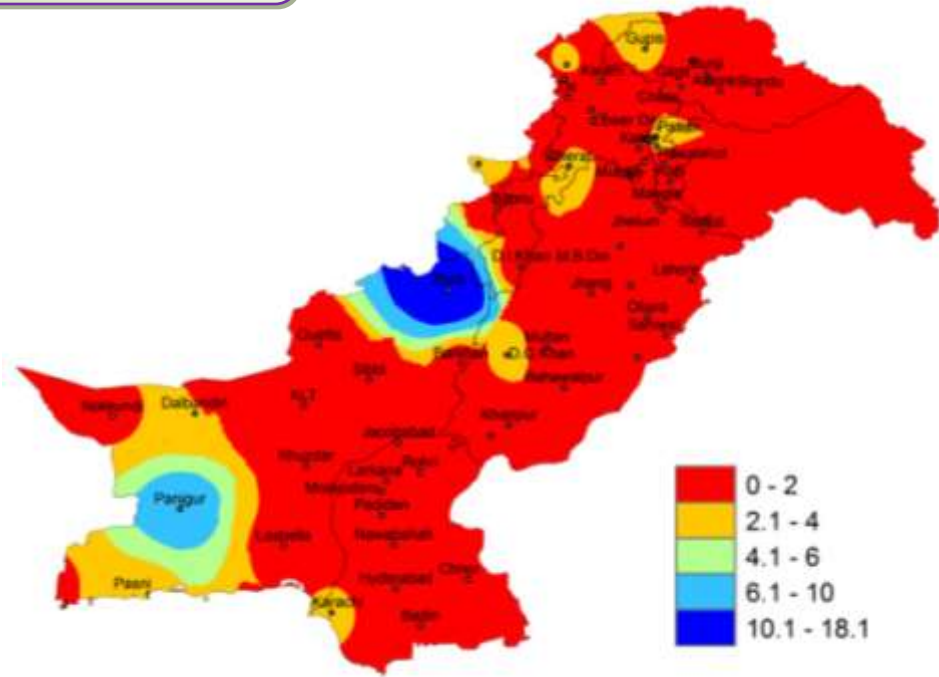
Mean Relative Humidity (%) during the Previous week (from 21st to 27th Dec, 2015)



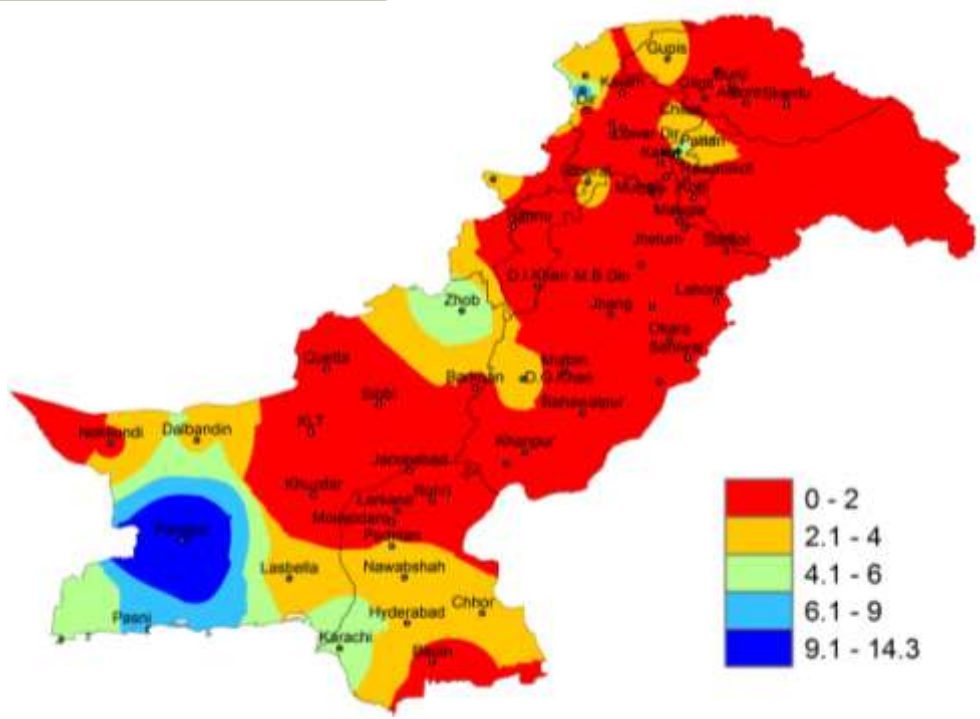
Total Growing Degree Days accumulated during the Previous week (from 21st to 27th Dec, 2015)



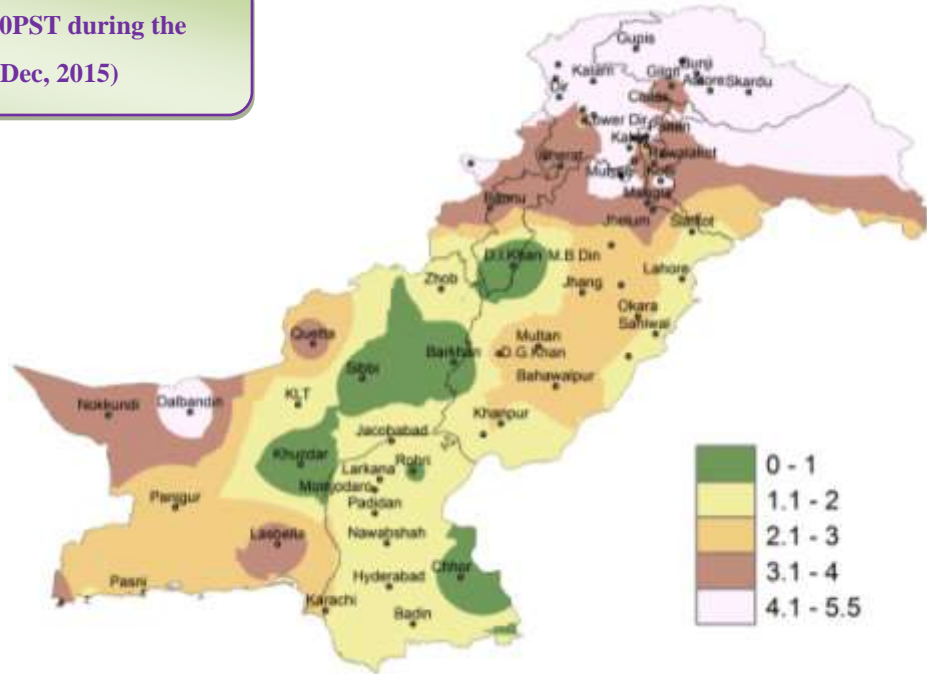
Mean Wind Speed (Knots) at 0800 PST during the Previous week (from 21st to 27th Dec, 2015)



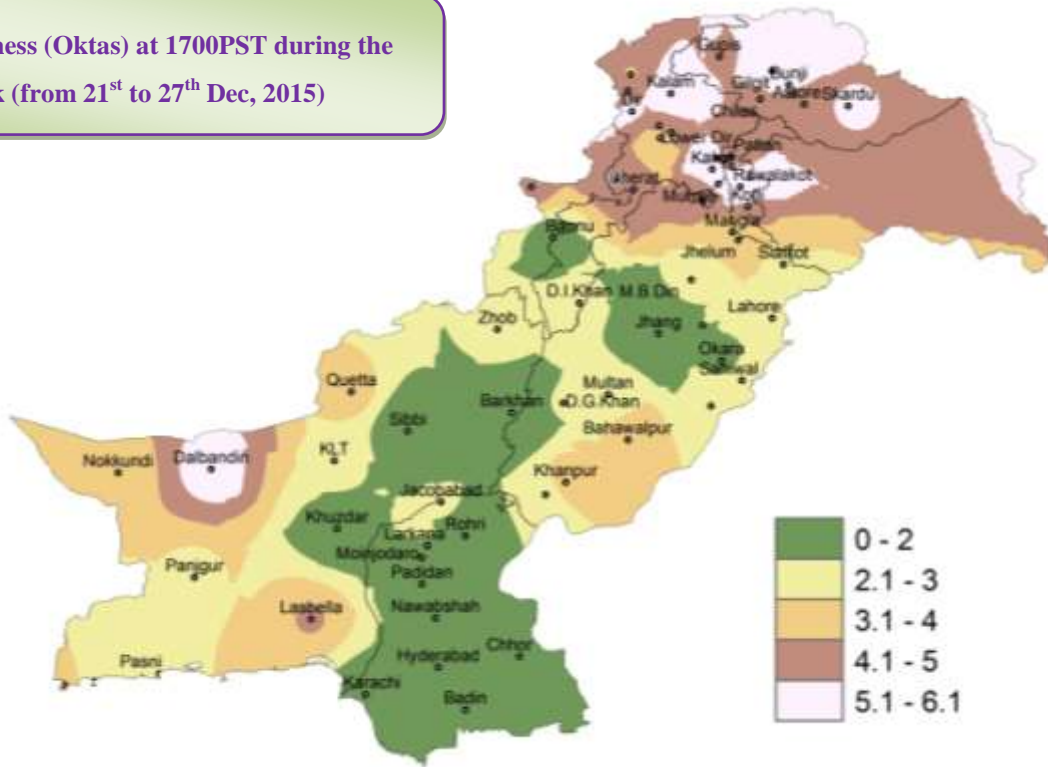
Mean Wind Speed (Knots) at 1700 PST during the Previous week (from 21st to 27th Dec, 2015)



Mean Cloudiness (Oktas) at 0800PST during the Previous week (from 21st to 27th Dec, 2015)



Mean Cloudiness (Oktas) at 1700PST during the Previous week (from 21st to 27th Dec, 2015)



Weekly Weather Advisory for Farmers**(From 28th Dec, 2015 to 1st Jan, 2016)**

Shallow westerly wave is prevailing over extreme northern parts of the country. Another shallow westerly wave is expected to approach western and upper parts of the country from Thursday.

MONDAY**28-12-2015**

Mainly cold and dry weather is expected in most parts of the country. Light rain/snow is likely at few places of Gilgit-Baltistan. Foggy conditions are likely over plain areas of Punjab, Peshawar division and upper Sindh during morning

TUESDAY**29-12-2015**

Mainly cold and dry weather is expected in most parts of the country. Foggy conditions are likely over plain areas of Punjab, Peshawar division and upper Sindh during night & morning hours.

WEDNESDAY**30-12-2015**

Mainly cold and dry weather is expected in most parts of the country. Foggy conditions are likely over plain areas of Punjab, Peshawar division and upper Sindh during night & morning hours.

THURSDAY**31-12-2015**

Mainly cold and dry weather is expected in most parts of the country. However, mostly cloudy weather conditions with light rain/snow are expected at a few places of Malakand, Quetta divisions, upper FATA and Gilgit-Baltistan. Foggy conditions are likely over plain

areas of Punjab, Peshawar division and upper Sindh during night & morning hours.

FRIDAY**01-01-2016**

Mainly cold and dry weather is expected in most parts of the country. However, mostly cloudy weather conditions with light rain/snow are expected at a few places of Malakand, Quetta division, upper FATA and Gilgit-Baltistan. Foggy conditions are likely over plain areas of Punjab, Peshawar division and upper Sindh during night & morning hours.

ADVISES FOR CROPS

- ❖ Removing weeds from the standing crops is very important as weeds utilize moisture and food which may be utilized by the crop. As a result considerable loss in yield occurs every year. However operations against weeds should be started using weedicides or manually when the crop completely covers the fields.
- ❖ Due to expected dry weather in most parts of the country, farmers are advised to irrigate the crops as per requirement during the decade.
- ❖ Frost is expected in several plain areas of the country during the decade at clear nights. Farmers are advised to take in time precautionary measures in this regard to protect standing crops and orchards.

National Weather Data of Selected Cities**(Weekly Data from 21st to 27th Dec, 2015)**

Stations	Minimum/Night Temperature (°C)		Growing Degree Days	Relative Humidity (%)	Rainfall (mm)	Cloudiness (Oktas) 0800PST	Cloudiness (Oktas) 1700PST	Wind Speed (Knots) 0800PST	Wind Speed (Knots) 1700PST
	Mean	Lowest							
Astore	-8.3	-10.5	-48.1	65	10.1	4.7	4.7	0.6	0.9
Badin	9.6	8.5	95.0	53	0.0	1.3	1.0	1.0	1.1
Bahawalnagar	5.9	5.0	73.2	67	0.0	2.0	2.7	0.0	1.1
Bahawalpur	4.5	2.5	70.7	64	0.0	2.0	3.3	0.6	0.0
Balakot	1.2	-1.1	89.3	76	3.0	5.0	5.9	0.0	0.0
Bannu	0.8	-1.0	101.1	57	0.0	3.3	1.1	1.1	0.6
Barkhan	-0.8	-1.0	38.3	39	0.0	0.0	0.0	0.0	1.7
Bunji	0.4	-1.1	7.1	49	0.0	5.1	6.0	0.6	0.0
Cherat	2.0	1.5	69.8	51	0.0	3.7	4.1	3.4	3.1
Chhor	5.2	3.6	77.5	47	0.0	0.7	1.7	0.6	2.0
Chilas	0.5	-1.0	12.4	42	4.0	3.6	4.6	0.0	0.9
Chitral	-0.7	-1.0	56.3	65	1.0	4.0	3.9	2.6	2.3
D.I.Khan	4.0	2.0	117.1	67	0.0	0.0	2.4	0.0	0.0
Dalbandin	-1.5	-6.0	29.5	48	0.0	4.3	5.7	2.0	3.8
D.G.Khan	5.6	4.5	63.1	62	0.0	2.1	2.1	3.1	2.6
Dir	-3.3	-6.0	55.8	73	14.0	4.9	5.1	0.0	1.4
Drosh	-0.6	-1.1	69.8	44	2.7	4.7	5.0	1.4	7.9
Faisalabad	4.5	2.5	52.0	72	0.1	3.1	0.7	0.2	0.5
Garidopatta	1.4	0.1	26.4	76	2.0	2.6	5.3	2.1	0.6
Gawader	12.0	10.0	111.0	55	0.0	1.7	2.0	2.3	4.6
Gilgit	-3.3	-4.0	-7.9	66	0.1	5.0	5.9	0.3	0.0
Gupis	-7.1	-8.0	-39.0	51	0.0	4.9	4.9	3.1	3.1

Hyderabad	9.0	7.5	88.1	48	0.0	2.0	1.3	1.3	4.0
Islamabad	1.4	-0.5	36.6	75	0.0	4.4	4.3	0.0	0.0
Jacobabad	7.1	6.0	75.8	45	0.0	2.0	2.3	0.0	0.9
Jhang	4.1	2.7	62.5	67	0.0	2.0	0.4	0.0	0.0
Jhelum	4.0	3.2	53.3	69	0.0	3.0	3.1	0.3	0.9
Jiwani	12.8	10.0	107.8	43	0.0	3.9	3.9	1.4	5.7
Kakul	-1.4	-3.5	70.8	66	4.0	4.3	5.3	0.0	0.3
Kalam	-5.4	-11.5	18.4	78	9.0	5.6	6.1	0.0	0.0
KLT	-6.5	-12.0	-10.8	36	0.0	1.6	3.0	0.0	1.1
Karachi	10.6	8.5	106.9	37	0.0	2.0	1.1	2.3	4.9
Khanpur	4.1	3.0	68.1	62	0.0	2.0	3.7	0.0	1.1
Khuzdar	7.8	6.5	62.8	32	0.0	0.0	0.9	0.0	0.0
Kotli	2.8	2.0	44.7	66	3.0	4.1	5.0	0.9	1.7
Lahore	4.2	3.0	54.1	59	0.0	1.7	3.0	0.0	2.0
Larkana	6.9	6.5	69.0	55	0.0	2.0	2.0	0.3	1.1
Lasbella	8.4	5.6	98.4	43	0.0	3.4	4.1	0.9	3.4
Lower Dir	1.9	0.5	94.6	77	1.0	4.1	4.6	0.6	0.3
M.B Din	4.6	3.5	49.0	72	0.0	2.6	2.4	0.3	0.9
Malam Jabba	-4.5	-6.0	22.4	75	32.0	5.4	4.7	0.3	0.0
Mangla	3.6	2.8	42.2	65	0.0	3.7	3.3	0.6	1.4
Mir Khani	-0.5	-1.5	77.6	58	5.0	3.9	4.3	0.7	1.6
Moinjodaro	5.9	5.0	65.0	64	0.0	1.7	2.0	0.0	1.1
Multan	6.1	4.0	58.1	64	0.0	2.6	2.9	1.1	1.7
Murree	-2.9	-4.5	-9.5	58	1.2	3.9	5.1	1.7	1.9
Muzaffarabad	1.5	0.0	26.4	77	0.1	2.7	4.1	1.1	0.9
Nawabshah	4.9	4.0	76.1	60	0.0	1.7	1.4	0.9	3.4

Nokkundi	4.6	3.0	76.1	25	0.0	3.9	3.3	1.4	1.7
Okara	4.9	3.5	59.1	65	0.0	2.1	1.7	0.6	0.0
Padidan	5.8	4.0	72.3	66	0.0	1.6	1.4	0.6	2.3
Panjgur	2.5	0.8	52.8	34	0.0	2.0	2.6	8.3	14.3
Parachinar	-9.4	-10.2	33.6	52	9.0	4.4	4.7	3.0	3.3
Pasni	13.3	12.0	110.8	68	0.0	2.4	2.9	3.1	7.1
Pattan	4.1	3.0	103.7	43	3.0	5.4	4.6	3.7	6.7
Peshawar	2.5	0.0	98.1	72	0.0	3.6	5.1	1.1	0.0
Quetta	-0.8	-5.0	4.2	46	0.1	3.1	2.6	1.1	3.1
Rahim Yar Khan	5.9	5.0	68.4	64	0.0	2.0	2.0	0.3	0.3
Rawalakot	-5.4	-7.5	1.1	70	3.5	3.6	5.3	0.0	0.6
Rawalpindi	3.5	2.0	36.5	76	0.0	3.7	3.1	0.2	0.5
Sahiwal	4.2	3.5	49.1	68	0.0	1.9	2.4	0.0	0.0
Saidu Sharif	1.0	-0.5	71.0	67	1.7	2.3	2.7	0.0	0.3
Sialkot	2.3	1.2	40.9	75	0.0	1.9	2.9	0.0	0.3
Sibbi	1.5	0.0	63.9	40	0.0	0.0	0.3	0.6	0.6
Skardu	-8.2	-9.6	-49.3	79	0.0	4.9	5.1	0.0	0.0
Tandojam	6.9	4.5	70.5	63	0.0	0.0	0.0	0.3	1.1
Usta.M	6.7	5.5	66.3	63	0.0	2.3	4.7	1.1	1.1
Zhob	0.0	-1.0	21.5	36	0.0	1.3	2.9	18.1	5.6

*** Shows that data was not available.