

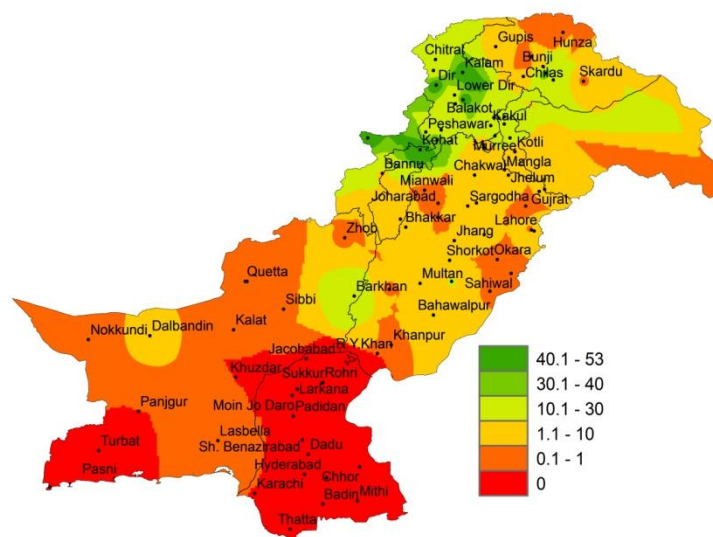
Weekly Weather and Crop Bulletin for Pakistan

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PAKISTAN METEOROLOGICAL
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**Rainfall Distribution (mm) during the Previous
Week (14th May to 20th May, 2018)**



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Highlights of Past Weather (14th May to 20th May, 2018)

Slightly below normal day temperatures were observed in Punjab, GB, Azad Kashmir and KP, whereas mix trend was observed in Sindh and Balochistan.

Province wise distribution of rainfall reported as follows:

- Light to moderate rainfall observed at most places in Punjab, Gilgit-Baltistan, Azad Jammu & Kashmir, Baluchistan and Khyber Pakhtunkhwa during the previous week.
- Dry weather observed at Sindh during the previous week.

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

Editor-in-Chief: Asma Jawad Hashmi (Director)

Editor: Saeeda Saleh (Assistant Meteorologist)

Past Weather of Provinces (14th May to 20th May, 2018)**Punjab**

Light to moderate rainfall observed at most places in Punjab during the week. Weekly maximum and minimum temperatures recorded as 37.3°C & 23.3°C respectively. For the recent week on average 176.7 growing degree days were accumulated by the end of the last week. Average relative humidity recorded as 42% and wind speed in the morning/evening recorded as 3.6/3.6 Knots. During the previous week the highest amount of rainfall was recorded as 14.2mm at Kamra & highest maximum temperature was recorded as 44°C at Rahim Yar Khan.

Sindh

Dry weather observed at Sindh during the week. Weekly maximum and minimum temperatures recorded as 42.7°C & 27°C respectively. For the recent week, on average 209.1 growing degree days were accumulated by the end of last week. Average relative humidity recorded as 40% and wind speed in the morning/evening recorded as 5.3/3.8 Knots. During the previous week the highest maximum temperature was recorded as 48.5°C at Nawabshah.

Khyber Pakhtunkhwa

Light to moderate rainfall observed at most places in Khyber Pakhtunkhwa during the week. Weekly maximum and minimum temperatures recorded as 27.3°C & 14.6°C respectively. For the recent week on average 114.0 growing degree days were accumulated by the end of last week. Average relative humidity recorded as 62% and wind speed in the morning/evening recorded as 1.2/3.6 Knots. During the previous week the highest amount of rainfall was recorded as 53 mm at Kohat & highest maximum temperature was recorded as 40°C at D.I.Khan.

Balochistan

Light rainfall observed at scattered places in Balochistan during the week. Weekly maximum and minimum temperatures recorded as 35.8°C & 22.5°C respectively. For the recent week on average 167.9 growing degree days were accumulated by the end of last week. Average relative humidity recorded as 39% and wind speed in the morning/evening recorded as 2.2/7.9 Knots. During the previous week the highest amount of rainfall was recorded as 23 mm at Barkhan & highest maximum temperature was recorded as 47°C at Sibbi.

Gilgit-Baltistan and Azad Jammu & Kashmir

Light to moderate rainfall observed at most places in Gilgit-Baltistan & Kashmir during the week. Weekly maximum and minimum temperatures recorded as 25.3°C & 13.0°C respectively. For the recent week on average 117.8 growing degree days were accumulated by the end of last week. Average relative humidity recorded as 52% and wind speed in the morning/evening recorded as 1.7/4.0 Knots. During the previous week the highest amount of rainfall was recorded as 20 mm at Muzaffarabad & highest maximum temperature was recorded as 36.1°C at Kotli.

Past Weather for Major Agricultural Plains (14th May to 20th May, 2018)

Rawalpindi (Potohar region)

Rainfall reported as 15.4 mm from Rawalpindi during the week; however, cloudiness in the morning/evening recorded as 2.0/3.7 Oktas while, average relative humidity observed as 65%. Mean day time temperature recorded as 30.6°C & for the recent week 163.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.9/0.9 Knots.

Faisalabad (Central Punjab)

Rainfall reported as 1.4 mm from Faisalabad during the week; however, cloudiness in the morning/evening recorded as 2.9/2.1 Oktas while, average relative humidity observed as 36%. Mean day time temperature recorded as 38.8°C & for the recent week 186.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.6/1.4 Knots.

Tandojam (Lower Sindh)

Dry weather reported from Tandojam during the week; however, no cloudiness recorded in the morning/evening while, average relative humidity observed as 38%. Mean day time temperature recorded as 42°C & for the recent week 198 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.0/1.8 Knots.

Usta Muhammad (Eastern Balochistan)

Dry weather reported from Usta Muhammad during the week; however, cloudiness in the morning/evening recorded as 0.0/0.3 Oktas while, average relative humidity observed as 42%. Mean day time temperature recorded as 44.1°C & for the recent week 220.5 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/6.0 Knots.

Quetta (Northern Baluchistan)

Rainfall reported as 0.2 mm from Quetta during the week; however, cloudiness in the morning/evening recorded as 3.3/4.3 Oktas while, average relative humidity observed as 23%. Mean day time temperature recorded as 26.7°C & for the recent week 116.7 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.1/3.8 Knots.

Past Weather for Sub-Regional Agricultural Plains (14th May to 20th May, 2018)

Multan

Rainfall reported as 3.60 mm from Multan during the week; however, cloudiness in the morning/evening recorded as 3.3/3.4 Oktas while, average relative humidity observed as 33%. Mean day time temperature recorded as 38.1°C & for the recent week 186.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 6.8/6.3 Knots.

Lahore

Rainfall reported as 3.41 mm from Lahore during the week; however, cloudiness in the morning/evening recorded as 1.8/2.4 Oktas while, average relative humidity observed as 36%. Mean day time temperature recorded as 37.8°C & for the recent week 187.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.7/1.1 Knots.

Zhob

Dry weather reported from during the week; however, cloudiness in the morning/evening recorded as 3.3/3.7 Oktas while, average relative humidity observed as 41%. Mean day time temperature recorded as 30.6°C & for the recent week 135.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.2/12.7 Knots.

Murree

Rainfall reported as 11.80 mm from Murree during the week; however, cloudiness in the morning/evening recorded as 1.5/3.9 Oktas while, average relative humidity observed as 59%. Mean day time temperature recorded as 21.4°C & for the recent week 75.8 growing degree days accumulated

by the end of last week. Wind speed recorded in the morning/evening as 2.7/1.7 Knots.

D.I. Khan

Rainfall reported as 4.02 mm from D.I. Khan during the week; however, cloudiness in the morning/evening recorded as 2.5/2.3 Oktas while, average relative humidity observed as 42%. Mean day time temperature recorded as 38.0°C & for the recent week 180.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 1.7/2.9 Knots.

Peshawar

Rainfall reported as 28.00 mm from Peshawar during the week; however, cloudiness in the morning/evening recorded as 3.5/6.3 Oktas while, average relative humidity observed as 64%. Mean day time temperature recorded as 31.5°C & for the recent week 143.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.7/2.6 Knots.

Kalam

Rainfall reported as 45.5 mm from Kalam during the week; however, cloudiness in the morning/evening recorded as 5.0/6.3 Oktas while, average relative humidity observed as 75%. Mean day time temperature recorded as 16.5°C & for the recent week 41.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.3/14.9 Knots.

Gilgit

Rainfall reported as 0.34 mm from Gilgit during the week; However, cloudiness in the morning/evening recorded as 6.5/7.3 Oktas while, average relative humidity observed as 57%. Mean day time temperature recorded as 24.9°C & for the recent week 96.8 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.3/4.6 Knots.

Skardu

Dry weather reported from Skardu during the week; however, cloudiness in the morning/evening recorded as 5.5/6.4 Oktas while, average relative humidity observed as 36%. Mean day time temperature recorded as 23.4°C by the end of last week. Wind speed recorded in the morning/evening as 0.5/6.1 Knots.

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 no crop in the fields of RAMC Faisalabad.

Lower Sindh (Tandojam)

There is presently one crop in the fields of RAMC Tandojam.

Cotton (CIM 6.2); Poor, Third true leaf stage in poor Conditions due to shortage of water..

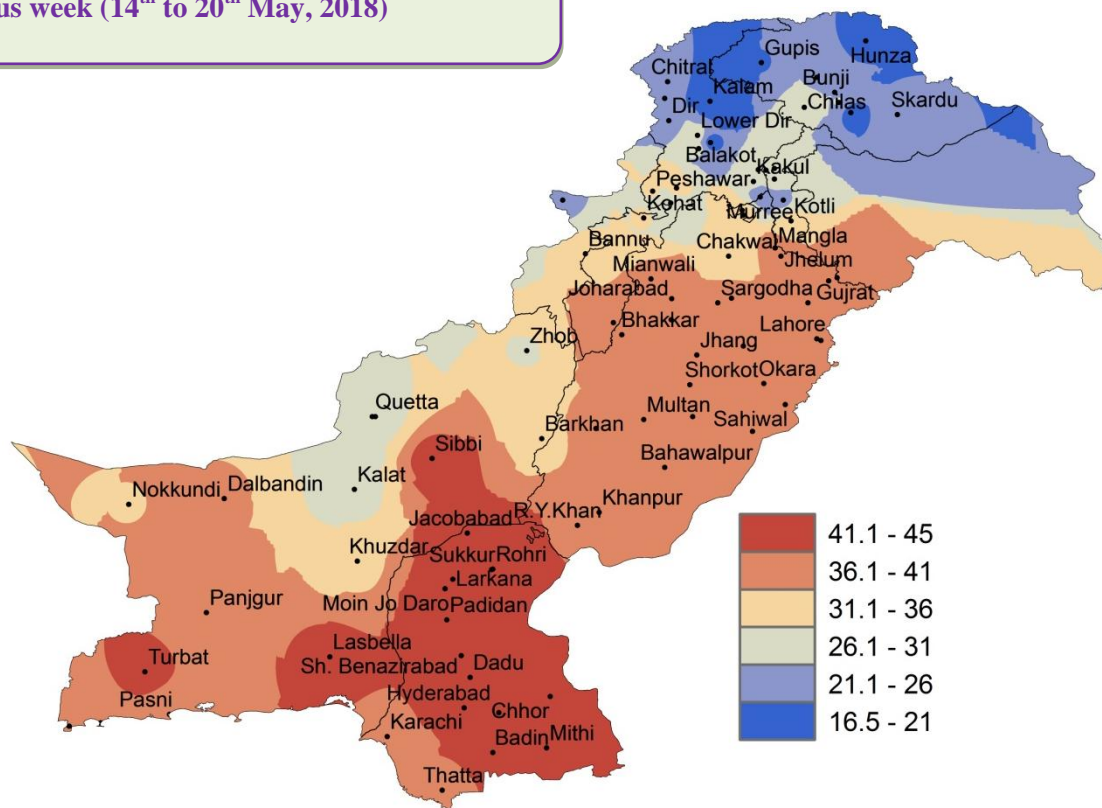
Northern Baluchistan (Quetta)

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

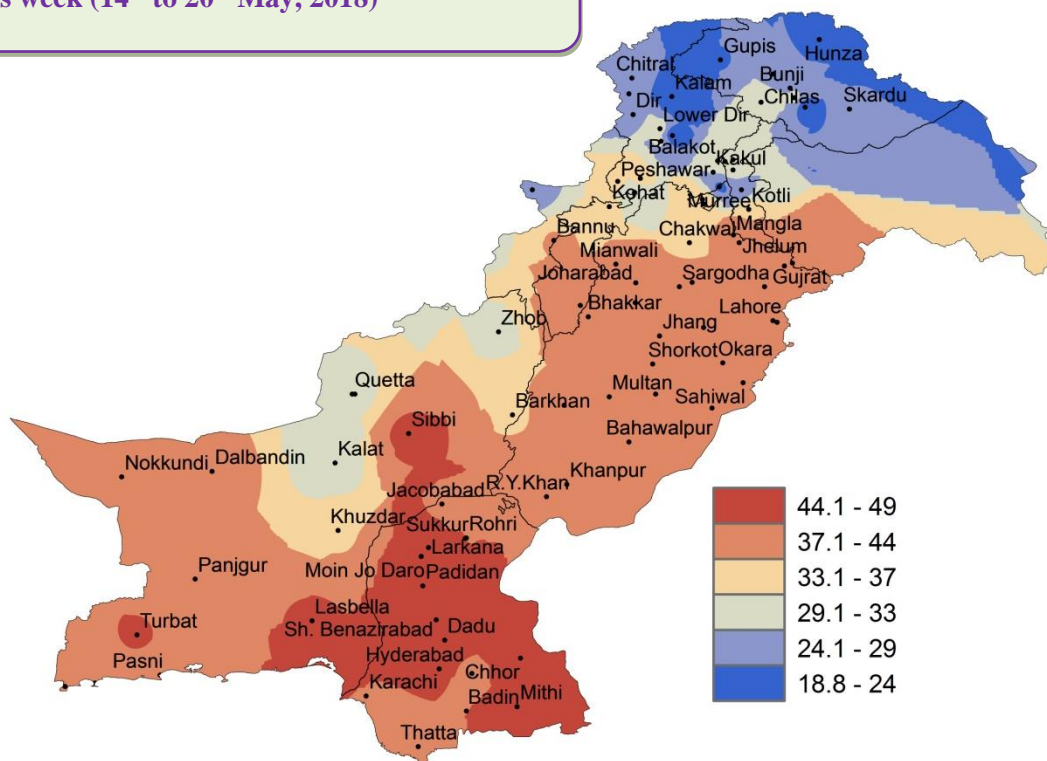
Eastern Baluchistan (Usta Muhammad)

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

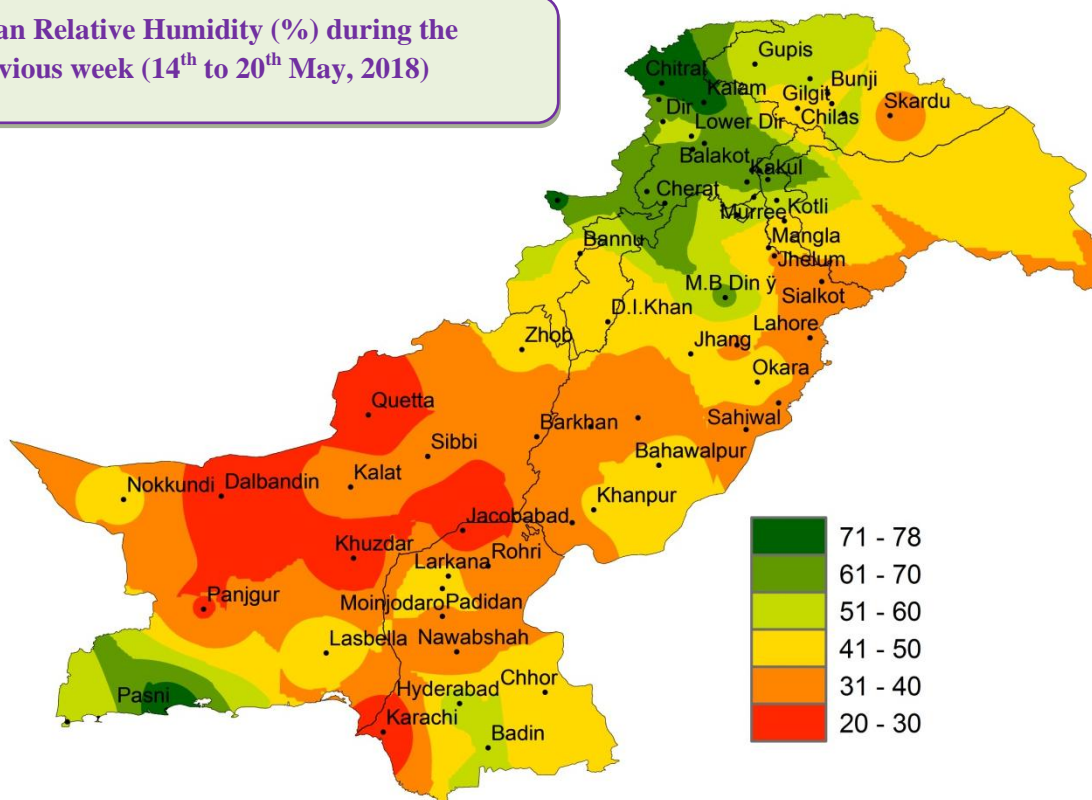
Mean Maximum Temperature (°C) during the Previous week (14th to 20th May, 2018)



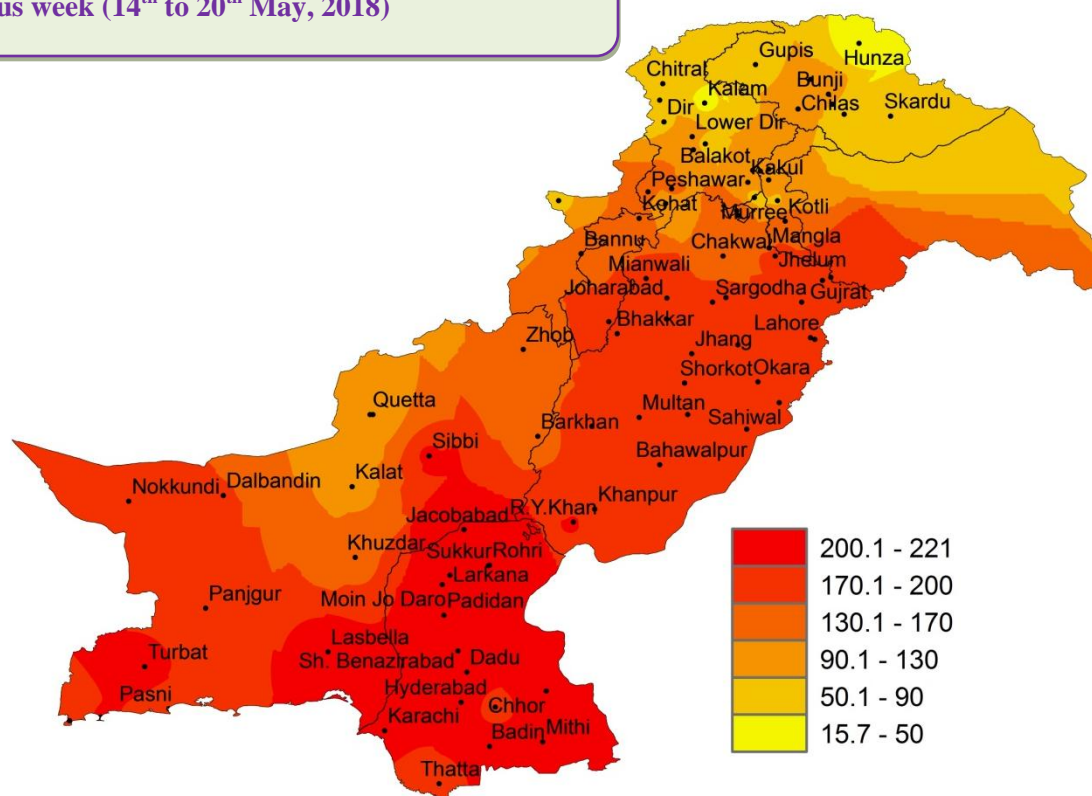
Highest maximum Temperature (°C) during the Previous week (14th to 20th May, 2018)



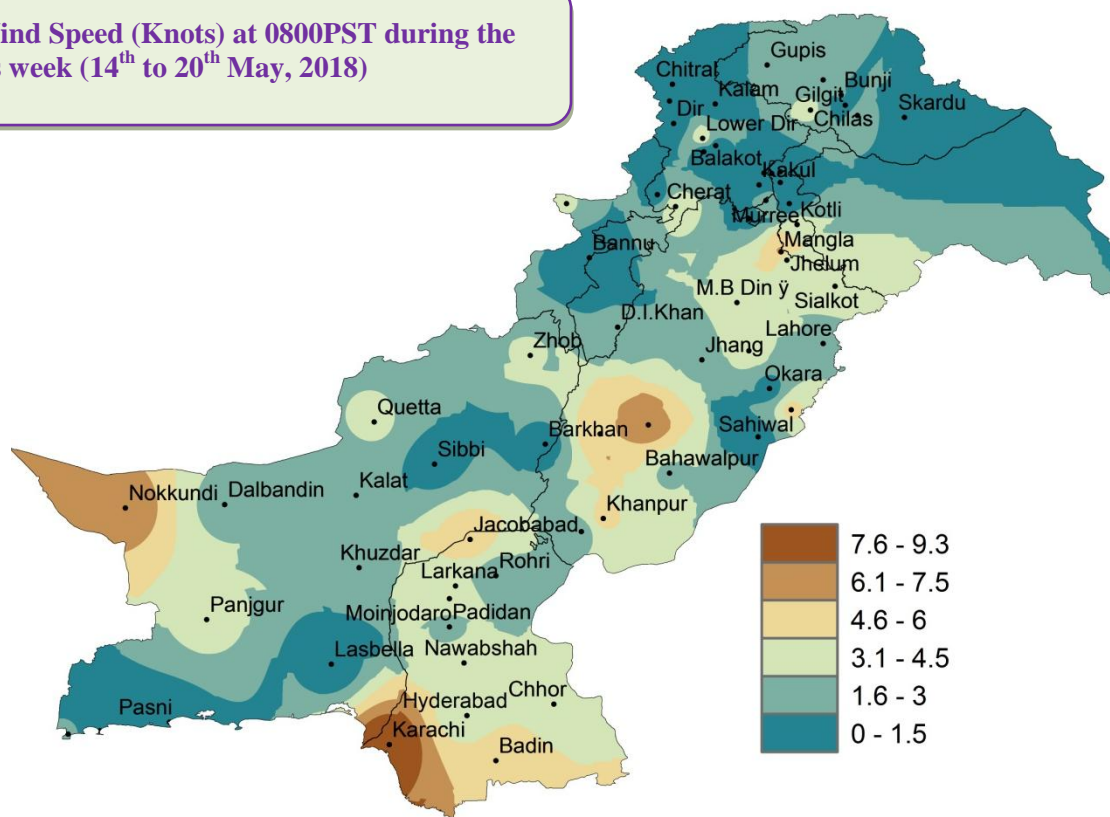
Mean Relative Humidity (%) during the
Previous week (14th to 20th May, 2018)



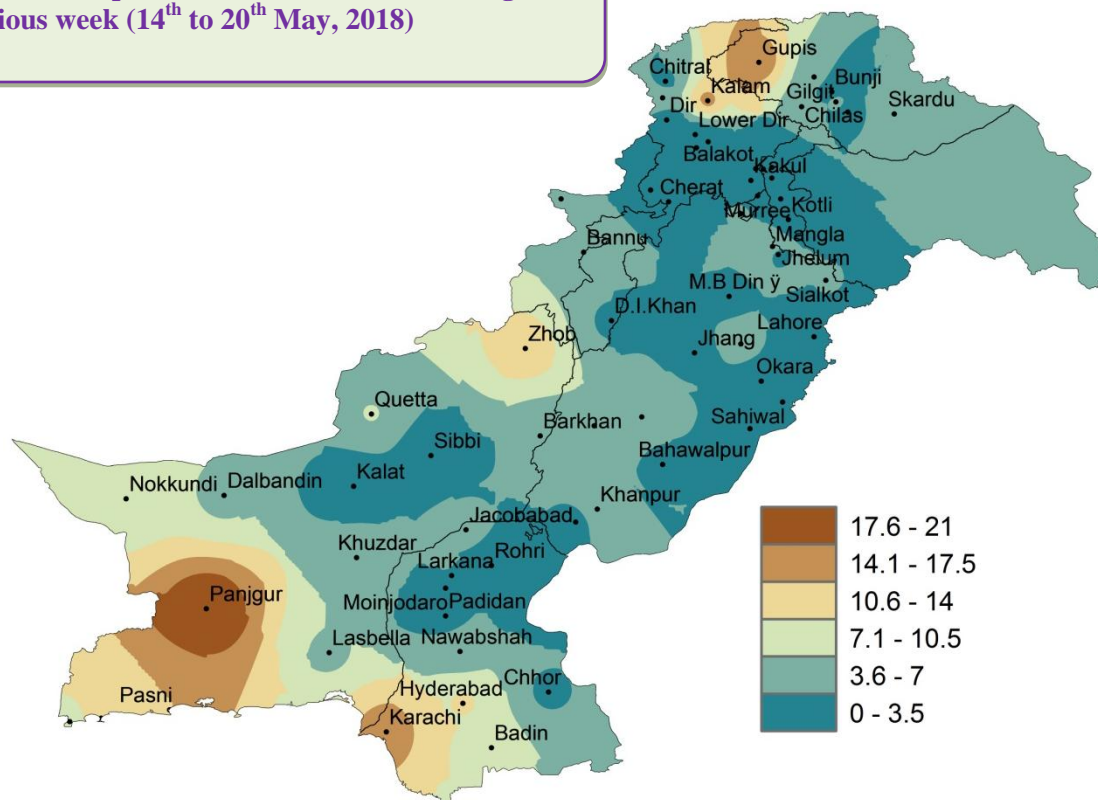
Total Growing Degree Days accumulated during the
Previous week (14th to 20th May, 2018)



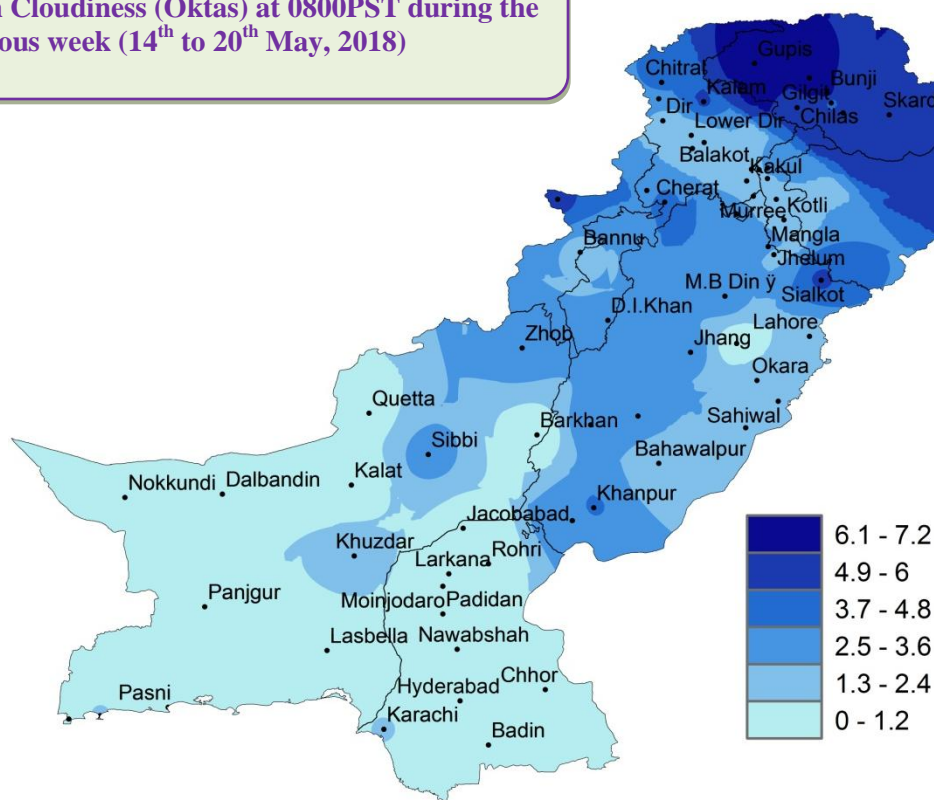
Mean Wind Speed (Knots) at 0800PST during the Previous week (14th to 20th May, 2018)



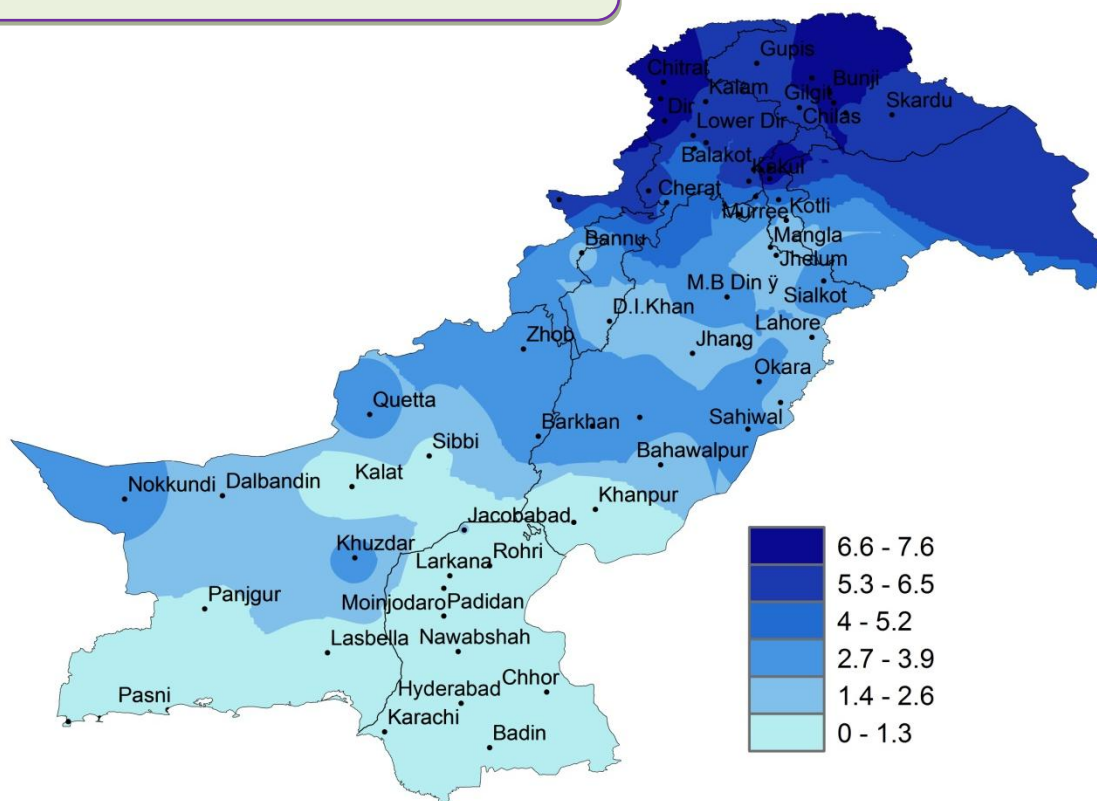
Mean Wind Speed (Knots) at 1700PST during the Previous week (14th to 20th May, 2018)



Mean Cloudiness (Oktas) at 0800PST during the Previous week (14th to 20th May, 2018)



Mean Cloudiness (Oktas) at 1700PST during the Previous week (14th to 20th May, 2018)



Weekly Weather Advisory for Farmers**(22th to 27th May, 2018)**

Continental air is prevailing over most parts of the country.

TUESDAY**22-05-2018**

Mainly hot and dry weather is expected in most parts of the country. However, rain-thundershower with gusty winds is expected at a few places in Malakand division and Gilgit-Baltistan.

WEDNESDAY**23-05-2018**

Mainly hot and dry weather is expected in most parts of the country.

THURSDAY**24-05-2018**

Mainly hot and dry weather is expected in most parts of the country. However, rain-thundershower with gusty winds is expected at few places in Gilgit-Baltistan.

FRIDAY**25-05-2018**

Mainly hot and dry weather is expected in most parts of the country. However, rain-thundershower with gusty winds is expected at few places in Malakand division and Gilgit-Baltistan.

SATURDAY**26-05-2018**

Mainly hot and dry weather is expected in most parts of the country. However, rain-thundershower

with gusty winds is expected at few places in upper FATA.

SUNDAY**27-05-2018**

Mainly hot and dry weather is expected in most parts of the country. However, rain-thundershower with gusty winds is expected at few places in upper FATA.

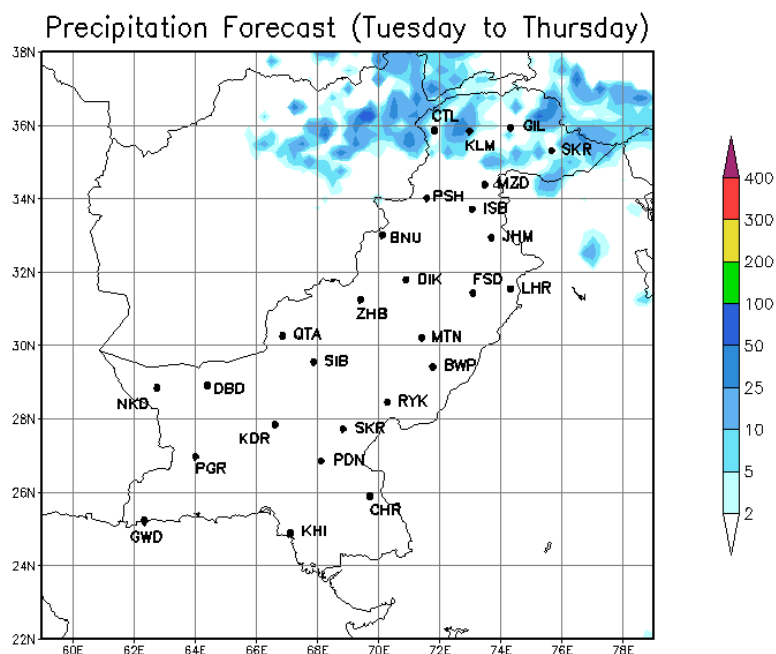
ADVISES FOR FARMERS

During the last week, light to moderate rainfall occurred in upper half of the country while hot and dry weather prevailed in rest parts. This may continue with almost the same pattern in coming days as well. Keeping in view the expected weather conditions following advises are suggested for farming community.

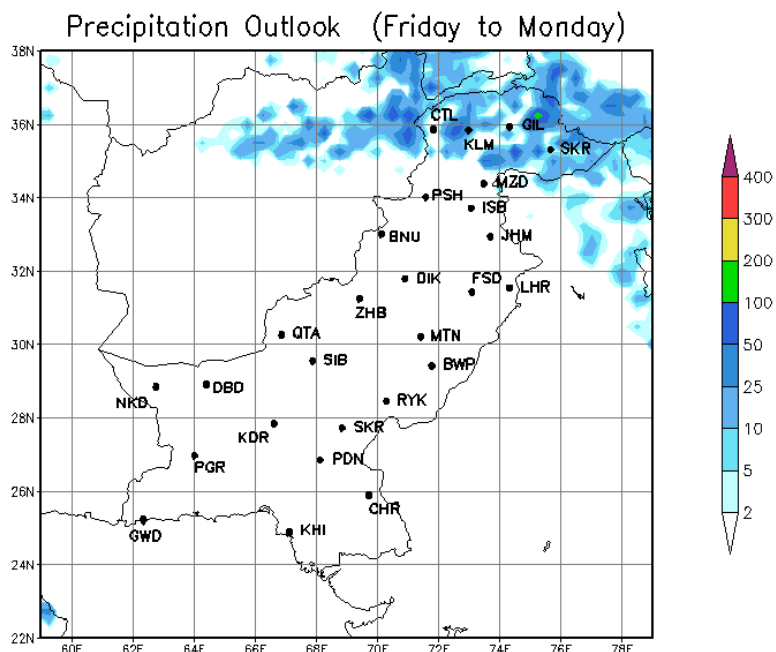
- Rice growers are advised to sow the crop “paneeri” in accordance with the recommendations by the agriculture experts.
- Farmers of southern Punjab and Sindh are advised to complete the sowing of cotton and other Kharif crops to utilize the maximum soil moisture.
- In the upper half of the country where the fields which are just vacated after the recent wheat crops, the fields may be ploughed and “Suhaga” applied to conserve the soil moisture for the upcoming Kharif crops.

Weather Outlook from 22nd May to 28th May, 2018

The forecast from 22nd to 24th May, 2018 shows that light rainfall is expected at isolated places in upper KP, GB and Kashmir, whereas dry weather may prevail in rest of the country.



The outlook from 25th to 27th May, 2018 shows that light to moderate rainfall is expected at scattered places in upper KP, GB and Kashmir. However, dry weather may prevail in rest of the country.



National Weather Data of Selected Cities (Weekly Data from 21st to 27th May, 2018)

Stations	Maximum/Night time Temperature (°C)		Growing Degree Days	Relative Humidity (%)	Rainfall (mm)	Cloudiness (Oktas) 0800 PST	Cloudiness (Oktas) 1700 PST	Wind Speed (Knots) 0800 PST	Wind Speed (Knots) 1700 PST
	Mean	highest							
Astore	17.8	20.3	***	56	9.10	5.0	6.2	2.7	2.0
Badin	42.1	44.0	207.6	50	0.00	0.0	0.4	6.0	8.3
Bahawalnagar	40.6	43.0	196.3	36	0.01	2.0	3.4	0.7	1.7
Bahawalpur	38.6	40.0	186.5	46	6.00	1.3	1.7	2.7	2.3
Balakot	29.1	31.5	121.7	67	14.00	1.8	5.7	0.3	1.7
Bannu	34.0	37.5	154.9	47	9.00	2.0	2.4	0.0	5.4
Barkhan	33.3	36.0	157.3	33	23.00	0.0	2.9	0.7	4.3
Bunji	25.9	28.3	109.4	47	2.02	6.5	7.3	1.7	1.4
Cherat	25.7	28.5	100.5	65	35.00	3.8	4.9	4.3	3.1
Chhor	44.9	46.6	216.5	46	0.00	0.5	0.4	4.0	2.9
Chilas	28.9	32.0	121.0	41	1.03	5.5	5.4	3.3	5.1
Chitral	22.5	27.0	83.1	78	18.81	4.5	7.6	0.3	2.3
D.G.Khan	39.2	40.6	192.0	37	0.01	3.3	3.6	6.0	6.0
D.I.Khan	38.0	40.0	180.4	42	4.02	2.5	2.3	1.7	2.9
Dalbandin	36.6	41.0	170.5	25	1.60	1.0	2.5	2.3	6.0
Dir	23.4	27.0	83.3	60	46.70	2.0	7.3	0.0	1.4
Drosh	23.1	26.4	76.4	68	18.80	2.8	7.4	1.3	7.1
Faisalabad	38.8	40.0	186.4	36	1.40	2.9	2.1	1.6	1.4
Garidopatta	29.0	32.5	126.4	62	8.70	2.0	6.9	1.0	2.6
Gawader	38.9	41.5	200.5	59	0.00	1.3	0.0	0.7	11.1
Gilgit	24.9	27.5	96.8	57	0.34	6.5	7.3	2.3	4.6
Gupis	20.0	23.5	***	52	2.00	7.3	5.3	1.7	16.6

Hyderabad	43.0	44.5	208.6	53	0.00	0.0	0.0	3.0	10.9
Islamabad	32.8	35.0	147.7	51	10.01	3.5	3.6	1.0	4.0
Jacobabad	42.1	43.5	211.3	23	0.00	0.5	1.3	6.0	4.9
Jhang	38.3	39.5	181.4	41	1.02	3.0	2.4	2.3	2.3
Jhelum	37.5	40.3	177.1	39	3.81	2.0	1.6	3.3	2.3
Jiwani	37.6	39.5	194.0	51	0.00	1.0	0.0	1.7	10.0
Kakul	27.8	29.2	108.5	61	24.00	2.0	5.7	0.0	1.1
Kalam	16.5	19.5	41.0	75	45.50	5.0	6.3	0.3	14.9
Kalat	27.7	29.0	114.5	33	0.00	0.0	0.0	2.0	1.1
Karachi	39.3	44.0	201.2	20	0.00	1.3	0.4	9.3	15.4
Khanpur	40.5	42.5	195.9	42	0.00	3.8	0.9	5.0	5.4
Khuzdar	33.6	35.5	159.5	24	0.00	2.0	3.0	2.3	5.7
Kotli	34.1	36.1	159.0	44	4.01	2.0	2.3	4.0	1.4
Lahore	37.8	39.8	187.4	36	3.41	1.8	2.4	2.7	1.1
Larkana	42.9	45.5	213.8	41	0.00	1.0	0.9	3.0	3.4
Lasbella	42.9	45.0	212.4	46	0.01	0.0	0.9	0.3	6.6
Lower Dir	29.1	32.0	130.5	54	20.00	1.3	6.4	4.3	2.6
M.B Din	37.3	40.0	175.8	62	2.01	3.3	3.0	3.0	2.6
Malam Jabba	17.5	18.5	***	66	52.00	2.0	5.6	1.0	0.0
Mangla	36.4	38.2	167.7	41	10.01	3.0	2.6	6.3	7.0
Mir Khani	26.6	31.0	91.2	48	47.60	4.5	6.9	0.3	4.6
Moinjodaro	43.3	46.0	210.0	43	0.00	0.0	0.3	4.3	3.4
Multan(PBO)	38.1	39.5	186.8	33	3.60	3.3	3.4	6.8	6.3
Murree	21.4	22.5	75.8	59	11.80	1.5	3.9	2.7	1.7
Muzaffarabad	30.6	32.4	126.2	62	20.00	1.0	7.0	1.0	3.1
Nawabshah	45.1	48.5	218.5	31	0.00	0.0	0.3	4.3	5.7

Nokkundi	35.9	39.5	177.0	41	0.01	0.8	2.9	7.0	8.3
Okara	38.1	40.5	187.9	45	0.11	2.0	3.1	0.7	0.6
Padidan	43.6	46.5	221.0	39	0.00	0.0	0.0	2.3	2.3
Panjgur	37.9	40.0	178.0	29	0.00	0.0	1.1	3.7	20.7
Parachinar	23.2	24.5	82.8	71	45.00	5.3	6.1	3.2	3.6
Pasni	38.3	42.0	191.5	76	0.00	0.0	0.0	0.7	14.0
Pattan	27.5	31.5	117.8	60	19.00	4.0	6.6	0.0	0.0
Peshawar	31.5	34.0	143.3	64	28.02	3.5	6.3	0.7	2.6
Quetta	26.7	29.5	116.7	23	0.20	3.3	4.3	3.1	3.8
R. Y. Khan	40.8	44.0	200.5	36	0.00	2.8	0.0	2.3	2.6
Rawalakot	24.2	25.2	85.7	59	15.71	1.8	4.1	0.0	1.1
Rawalpindi	30.6	38.0	163.3	65	15.40	2.0	3.7	0.9	0.9
Rohri	42.6	43.5	201.8	32	0.00	0.8	0.0	2.0	0.6
Sahiwal	37.3	39.5	181.9	38	0.03	1.3	1.9	5.0	2.9
Saidu Sharif	27.3	29.9	114.2	66	12.00	2.0	3.7	0.3	0.0
Sialkot	37.5	39.9	177.1	39	1.01	5.0	3.3	3.3	3.7
Sibbi	44.6	47.0	204.3	31	0.02	3.0	1.1	0.7	1.1
Skardu	23.4	25.3	***	36	0.00	5.5	6.4	0.5	6.1
Tandojam	42.0	43.5	198.0	38	0.00	0.0	0.0	2.0	1.8
Usta muhamad	44.1	47.0	220.5	42	0.00	0.0	0.3	0.0	6.0
Zhob	30.6	31.5	135.8	41	0.00	3.3	3.7	3.2	12.7

*** Shows that data was not available.

Findings of AgMIP Pakistan, University of Agriculture, Faisalabad

1. There would be significant increase in temperature i.e., 2.8°C in day and 2.2°C in the night during mid-century (2040-2069).
2. There would be significant variability in rainfall patterns (about 25% increase in summer & 12% decrease in winter during 2040-2069).
3. Climate Change will affect the crop yields negatively (about 17% for rice and 14% for wheat).
4. If there will be no adaptation to Climate Change, majority of farmers would be the economic losers.
5. With Adaptation to Climate Change (through technology and management), there would be significant decrease in poverty and improvement in the livelihood of farming community.

(Agricultural Model Inter-comparison and Improvement Project (AgMIP) Pakistan 2012-2014)

- 1۔ سال 2040-69 کے دوران درجہ حرارت میں قابل ذکر اضافہ ہو سکتا ہے۔ جو کہ دن کے وقت 2.8°C اور رات کو 2.2°C تک ہوگا۔
- 2۔ گرمیوں کی بارش میں 25 فیصد اضافہ اور سردیوں کی بارش میں 12 فیصد تک کمی کا امکان ہے۔
- 3۔ مندرجہ بالا موسمی تغیرات کی وجہ سے دھان کی پیداوار میں 17 فیصد اور گندم کی پیداوار میں 14 فیصد تک کمی ہو سکتی ہے۔
- 4۔ اگر موسمی تغیرات کا مناسب بندوبست نہ کیا گیا۔ تو کسانوں کی اکثریت کو معاشی نقصان کا سامنا کرنا پڑے گا۔
- 5۔ موسمی تغیرات کے سدباب (بذریعہ نئی ٹیکنالوجی کا استعمال اور بہتر نظم و نسق) سے غربت میں کمی اور کسانوں کی زندگی میں خوشحالی لائی جاسکتی ہے۔

(ایگمپ پاکستان 2012-2014)