

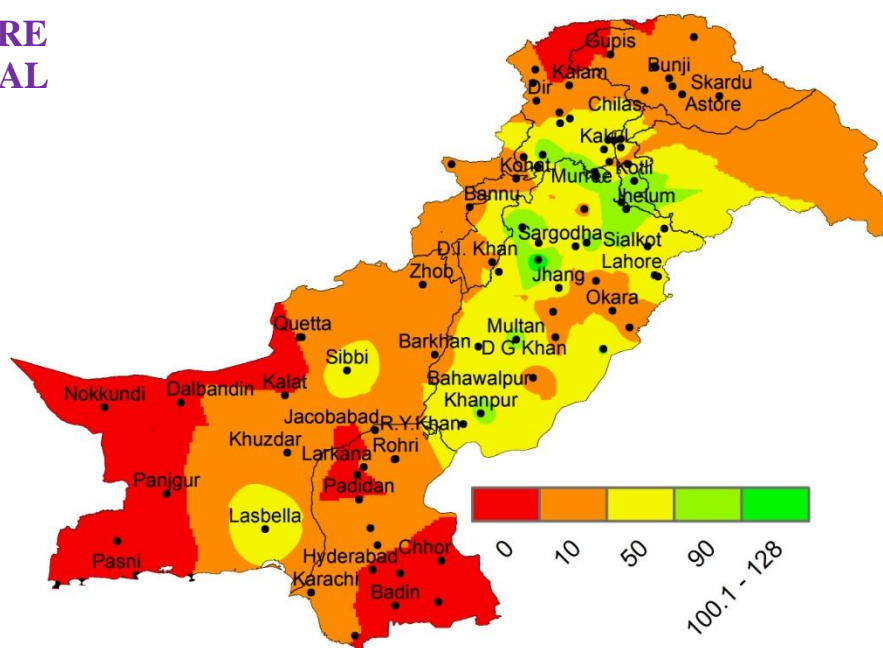
Weekly Weather and Crop Bulletin for Pakistan

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**Rainfall distribution (mm) during the
Last week (from 22nd to 28th July, 2013)**



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Highlights of Past Weather (from 22nd to 28th July, 2013)

Light to Moderate rainfall reported from most of the places in the Punjab and Khyber Pakhtunkhwa Provinces, Gilgit Baltistan and Kashmir regions. Whereas, light rainfall reported from a few places in Balochistan and Sindh Provinces.

Patron-in-Chief: Arif Mahmood (Director General)
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 province during the week. Weekly maximum temperature and minimum temperature recorded as 36.0°C & 26.9 °C respectively. For the present season on average 184.8 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 1.9/2.3 Knots. During the previous week highest amount of rainfall reported at Islamabad as 143.0 mm and extreme maximum temperature recorded as 43.3 °C at the Rahim Yar Khan.

Sindh

Light rainfall reported from a few places in Sindh Province. Weekly maximum temperature and minimum temperature recorded as 38.6°C & 28.2°C respectively. For the present season on average 199.5 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 5.2/6.0 Knots. During the previous week highest amount of rainfall reported at Rohri as 10.0 mm and Extreme maximum temperature recorded as 43.5°C at Rohri.

Khyber Pakhtunkhwa

Light to Moderate rainfall reported from most of the places in Khyber- Pakhtunkhwa Province during the week. Weekly maximum temperature and minimum temperature recorded as 33.7°C & 22.7°C respectively. For the present season on average 162.1 growing degree days accumulated by the end of last week. Average relative humidity recorded as 64% and wind speed in the morning/evening recorded as 0.7/3.7 Knots. During the previous week the highest rainfall

recorded at Risalpur as 137.0 mm and extreme maximum temperature recorded as 40.5 °C at D.I Khan.

Balochistan

Light rainfall reported from a few places in Balochistan Province. Weekly maximum temperature and minimum temperature recorded as 38.4°C & 25.6°C respectively. For the present season on average 188.8 growing degree days accumulated by the end of last week. Average relative humidity recorded as 51% and wind speed in the morning/evening recorded as 2.1/6.2 Knots. During the previous week highest amount of rainfall reported at Khuzadar as 18.0 mm Extreme maximum temperature recorded as 47°C at Dalbandin.

Gilgit Baltistan and Azad Jammu & Kashmir

Light to Moderate rainfall reported from most of the places in Gilgit- Baltistan & Kashmir regions. Weekly maximum temperature and minimum temperature recorded as 35.6°C & 21.6°C respectively. For the present season on average 162.1 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 1.1/2.0 Knots. During the previous week the highest rainfall recorded at Kotli as 94.0 mm and extreme maximum temperature recorded as 44.5°C at Gilgit.

Past Weather for Major Agricultural Plains (from 22nd to 28th July, 2013)

Rawalpindi (Potohar region)

Rainfall reported as 16.0 mm during the week however cloudiness in the morning/evening as 2.9/5.7 Oktas while average relative humidity observed as 75 %. Mean day time temperature recorded as 34.8 °C & for the present season 170.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 2.1/2.8 Km/h.

Faisalabad (Central Punjab)

Rainfall reported as “Trace” during the week however cloudiness in the morning/evening as 3.4/4.4 Oktas while average relative humidity observed as 64%. Mean day time temperature recorded as 37.3°C & for the present season 192.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 3.1/2.0 Km/h.

Tandojam (Lower Sindh)

No rainfall reported during the week, however cloudiness in the morning/evening as 4.4/2.6 Oktas while average relative humidity observed as 66%. Mean day time temperature recorded as 35.2 °C & for the present season 183.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 4.4/6.6 Km/h.

Quetta (Northern Balochistan)

No rainfall reported during the week however cloudiness in the morning/evening as 0.7/3.0 Oktas while average relative humidity observed as 41%. Mean day time temperature observed as 37.1 °C & for the present season 173.3 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 5.6/7.0 Km/h.

Usta Muhammad (Eastern Balochistan)

Rainfall reported as 5.0 mm during the week, however cloudiness in the morning/evening as 1.0/1.0 Oktas while average relative humidity

observed as 52%. Mean day time temperature recorded as 41.6 °C & for the present season 208.0 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.2/0.2 Km/h.

Past Weather for sub regional Agri-cultural Plains (from 22nd to 28th July, 2013)

Rohri

Rainfall reported as 10.0 mm during the week, however cloudiness in the morning/evening as 4.1/1.4 Oktas while average relative humidity observed as 54 %. Mean day temperature recorded as 40.8°C & for the present season 212.5 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 3.7/2.9 Knots.

Multan

Rainfall reported as 75.0 mm during the week , however cloudiness in the morning/evening as 3.4/3.1 Oktas while average relative humidity observed as 65%. Mean day time temperature recorded as 38.1°C & for the present season 197.8 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 2.8/6.0 Knots.

Lahore

Rainfall reported as 17.0 mm during the week however, cloudiness in the morning/evening as 2.6/4.4 Oktas while average relative humidity observed as 73%. Mean day time temperature recorded as 34.6°C & for the present season 177.7 growing degree days accumulated by the end of last week. Wind recorded in the morning/evening as 1.7/3.1 Knots.

Zhob

Rainfall reported as 2.0 mm during the week however, cloudiness in the morning/evening as 2.3/4.5 Oktas while average relative humidity observed as 67%. Mean day temperature recorded as 37.2°C & for the present season 184.0 growing degree days accumulated by the end of last week.

Wind recorded in the morning/evening as 7.9/11.0 Knots.

D.I. Khan

Rainfall reported as 5.1 mm during the week however cloudiness in the morning/evening as 4.1/0.7 Oktas while average relative humidity observed as 70%. Mean day temperature was recorded 38.0°C by the end of last week. Wind speed recorded in the morning/evening as 0.9/0.3 Knots.

Peshawar

Rainfall reported as 5.3 mm during the week however cloudiness in the morning/evening as 5.3/1.5 Oktas while average relative humidity observed as 73%. Mean day temperature recorded as 35.0°C & for the present season 186.1 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 21.1/2.3 Knots.

Murree

Rainfall reported as 10.0 mm during the week however cloudiness in the morning/evening as 6.3/7.5 Oktas while average relative humidity observed as 90%. Mean day temperature recorded as 22.3°C & for the present season 101.9 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.6/1.4 Knots.

Kalam

No rainfall reported during the week, however cloudiness in the morning/evening as 4.3/1.1 Oktas while average relative humidity observed as 62%. Mean day temperature recorded as 27.2°C & for the present season 130.4 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/2.0 Knots.

Gilgit

No rainfall reported during the week, however cloudiness in the morning/evening as 2.3/2.6 Oktas while average relative humidity observed as 42%. Mean day temperature recorded as 41.2°C & for the present season 175.1 growing degree days

accumulated by the end of last week. Wind speed recorded in the morning/evening 2.0/2.6 Knots.

Skardu

Rainfall reported as 0.2 mm during the week, however cloudiness in the morning/evening as 2.7/2.7 Oktas while average relative humidity observed as 37%. Mean day temperature recorded as 33.6°C & for the present season 136.2 growing degree days accumulated by the end of last week. Wind speed recorded in the morning/evening as 0.0/1.7 Knots.

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

Potohar Region (Rawalpindi)

Presently there is no crop in the fields.

Central Punjab (Faisalabad)

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

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

Cotton: Very Good condition at *Boll Opening* stage.

Lower Sindh (Tandojam)

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

Cotton(BT-3701): Good condition at *Boll Opening* stage.

Northern Balochistan (Quetta)

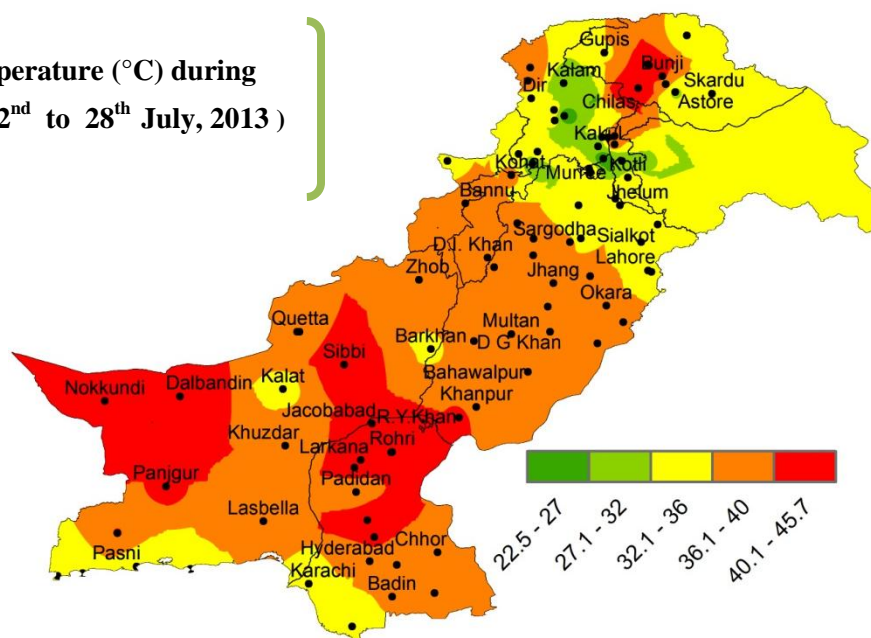
Presently there is no crop in the fields.

Eastern Balochistan (Usta Muhammad)

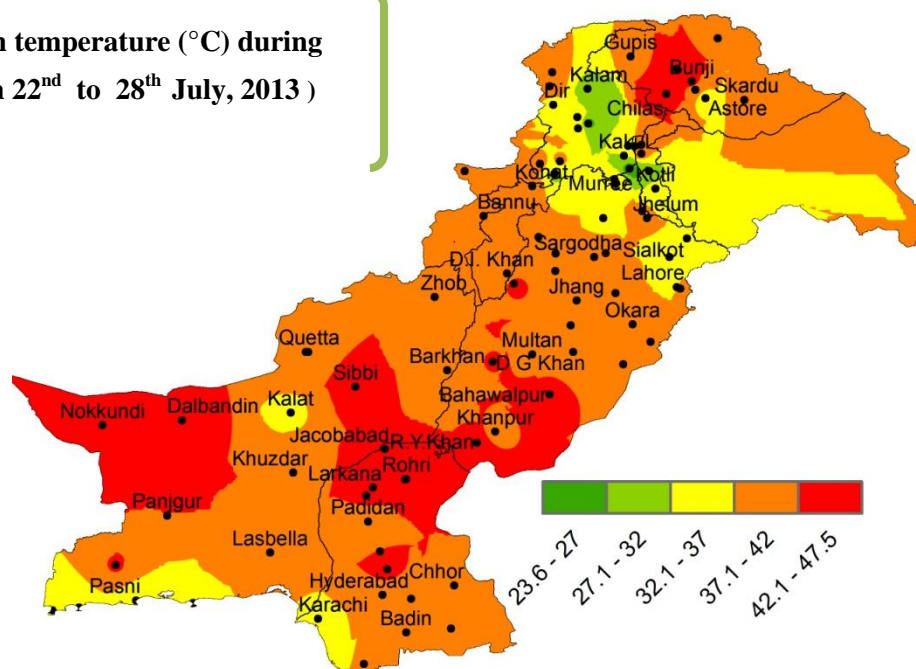
There is only one crop (irrigated conditions) grown in the fields as detailed below.

Rice: Good condition at *Tillering* stage.

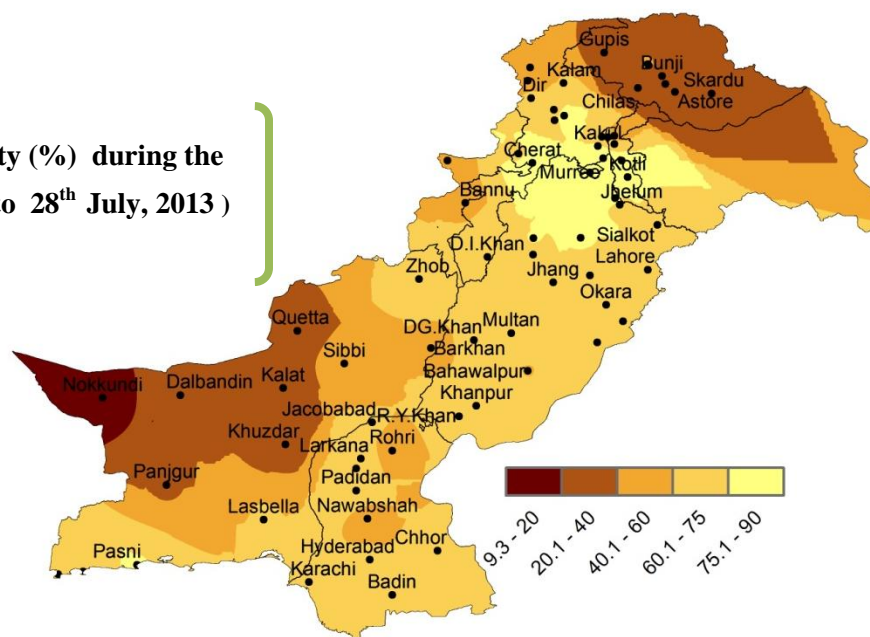
Mean maximum temperature ($^{\circ}\text{C}$) during
the last week (from 22nd to 28th July, 2013)



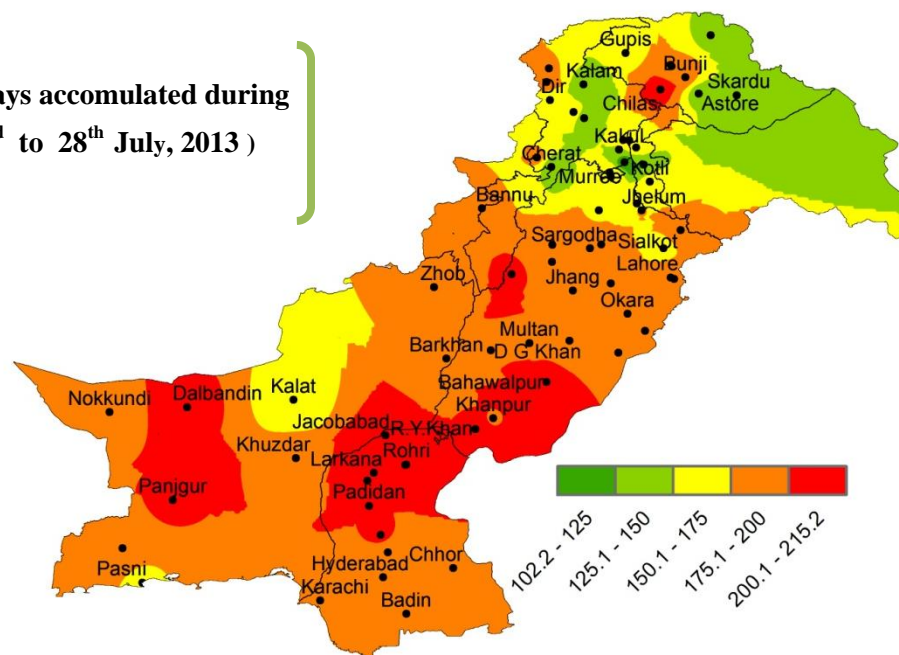
Extreme maximum temperature ($^{\circ}\text{C}$) during
the last week (from 22nd to 28th July, 2013)



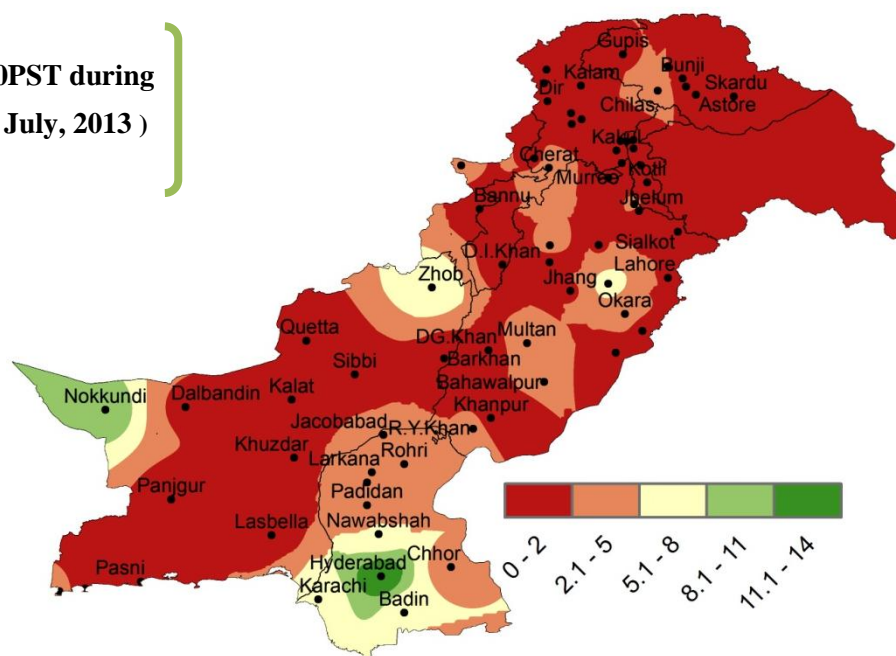
Mean relative humidity (%) during the last week (from 22nd to 28th July, 2013)



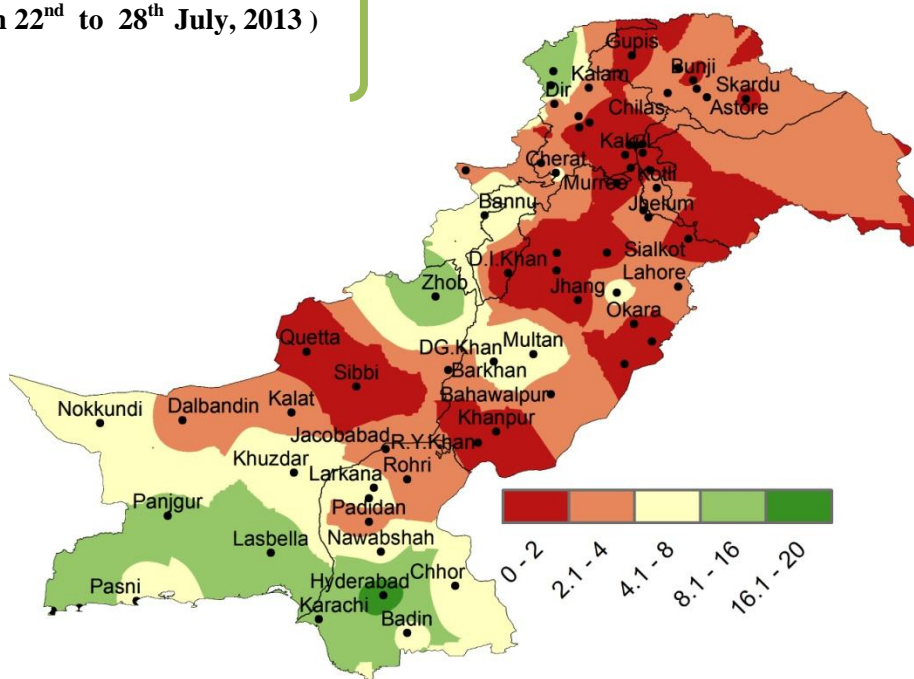
Total growing degree days accumulated during the last week (from 22nd to 28th July, 2013)



Mean wind speed (Knots) at 1700PST during
the last week (from 22nd to 28th July, 2013)



Mean wind speed (Knots) at 0800 PST during
the last week (from 22nd to 28th July, 2013)



Weekly Weather advisory for Farmers (from 29th July to 4th August, 2013)

A well marked seasonal low lies over northwest Balochistan and adjoining areas. Monsoonal currents from the Arabian Sea are penetrating into most parts of the country and likely to continue during the current week. Monsoon weather system will remain active on upper parts of the country from tomorrow (Tuesday) and would continue during the week.

Punjab including Islamabad:

Rain-thundershower associated with gusty winds is expected at scattered places of Islamabad, upper Punjab (Rawalpindi, Gujranwala and Lahore divisions) while at isolated in central/Southern Punjab during the current week with occasional gaps. Heavy falls are also expected at isolated places in upper Punjab during second half of the week. Humid weather will subside in upper Punjab from Tuesday/Wednesday and day temperatures are likely to remain below normal during second half of the week.

Khyber Pakhtunkhwa:

Rain-thundershower associated with gusty winds is expected at scattered places of upper KP (Malakand, Hazara and Peshawar divisions) from Tuesday to Sunday with occasional gaps. Isolated heavy falls are also expected in upper KP from Wednesday to Saturday. Isolated Rain-thundershower is also expected in Kohat, Bannu, D.I. Khan divisions and FATA region from Wednesday to Sunday.

Balochistan:

Mainly Hot & Humid weather is expected in most parts of the province during first half of the week. However, rain-thundershower associated with gusty winds is expected at isolated places of

Northeastern Balochistan during first half of the week.

Scattered rain-thundershower associated with gusty winds is expected in northern/eastern Balochistan (Sibbi, Nasirabad, Zhob, Kalat and Quetta divisions) during second half of the week.

Sindh:

Mainly Hot & Humid weather is expected in most part of the province during the week. However, mostly cloudy weather conditions with chances of isolated rain-thundershower associated with gusty winds is expected in southeastern Sindh during Monday and on the weekend.

Kashmir:

Rain-thundershower (with isolated heavy falls) associated with gusty winds is expected at scattered places of Kashmir during the current week. Day temperatures are likely to remain below normal during the week.

Gilgit-Baltistan:

Mainly Dry/Partly cloudy weather is expected in most parts of GB during the week, However rain-thunderstorm is expected at isolated places of GB during second half of the week.

Advises 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. Farmers should

also free the crops from excess of weeds after recent rains especially in upper half of the country.

National Weather Data of Selected Cities (Weekly Data from 22nd to 28th July, 2013)

Stations	Maximum/Day Temperature (°C)		Growing Deg. Days	Relative Humidity (%)	Rainfall (mm)	Cloudiness Oktas (0800)PST	Cloudiness Oktas (1700)PST	Wind Speed (Knots) 0800PST	Wind Speed (Knots) 1700PST
	Mean	Height							
Astore	30.7	34.0	126.3	40	6.0	3.0	3.0	1.1	4.0
Badin	36.1	39.0	188.1	65	0.0	4.6	4.7	5.1	6.9
Bahawalnagar	38.9	41.5	199.6	66	52.0	3.3	4.1	1.4	2.0
Bahawalpur	39.7	43.0	207.3	60	3.1	3.3	3.4	2.0	2.6
Balakot	31.6	33.0	151.2	73	22.0	3.6	3.4	0.0	1.0
Bannu	38.0	41.0	188.4	59	1.0	3.9	1.6	0.6	7.1
Barkhan	35.4	37.0	175.3	56	0.0	2.6	4.4	0.0	2.0
Bunji	41.5	45.0	198.9	32	2.0	2.9	3.6	1.1	0.3
Cherat	28.1	30.0	127.8	87	20.0	6.6	5.0	4.3	4.3
Chhor	38.3	40.7	196.1	67	0.0	3.1	4.9	2.9	4.9
Chilas	42.5	45.6	214.9	24	0.1	1.7	2.0	4.6	3.1
Chitral	38.8	39.8	177.8	49	0.0	0.9	0.3	0.0	7.7
DG.Khan	38.9	42.3	199.3	62	19.0	3.3	2.7	1.4	4.6
D.I.Khan	38.3	40.5	***	70	5.1	4.1	0.7	0.9	0.3
Dalbandin	45.7	47.0	215.3	34	0.0	0.4	0.4	1.1	2.6
Dir	33.1	35.0	158.0	69	2.0	5.3	4.6	0.0	1.7
Drosh	38.6	40.2	186.9	38	0.0	2.0	1.0	0.0	15.4
Faisalabad	37.5	39.5	194.0	66	0.1	3.7	4.0	6.3	4.9
Garidopatta	36.9	38.0	171.8	67	17.0	2.3	1.4	0.0	0.0
Gawader	33.7	34.5	***	71	0.0	7.3	1.9	1.1	13.4

Gilgit	41.6	46.2	175.1	42	0.0	2.3	2.6	2.0	2.6
Gupis	35.4	38.5	161.5	28	0.0	0.6	0.6	1.4	1.4
Hyderabad	36.5	40.0	188.6	62	0.0	2.4	2.9	14.0	20.0
Islamabad	34.1	36.0	170.2	77	53.1	6.1	2.9	0.3	1.1
Jacobabad	40.0	42.5	211.9	61	0.0	2.3	3.6	2.6	2.9
Jhang	37.2	39.6	188.3	69	13.0	2.7	2.4	1.7	1.1
Jhelum	35.4	37.3	175.4	74	94.0	4.6	3.6	1.7	2.9
Jiwani	32.4	33.5	170.1	75	0.0	6.9	3.9	2.6	10.3
Joharabad	37.0	40.0	189.8	75	22.0	3.6	1.6	2.6	1.4
Kakul	29.9	32.0	146.2	76	26.0	4.0	5.1	0.0	1.1
Kalam	27.4	29.0	130.4	62	0.0	4.3	1.1	0.0	2.0
Kalat	34.9	36.0	152.0	31	0.0	0.0	2.7	0.0	3.1
Karachi	34.0	35.5	184.4	70	2.1	6.4	4.6	5.4	10.0
Khanpur	38.9	41.3	199.3	68	61.0	3.7	3.6	1.4	1.4
Khuzdar	38.4	40.0	188.8	30	7.0	0.4	1.7	0.0	7.0
Kotli	33.3	33.9	167.1	77	90.0	5.3	4.7	0.9	2.3
Lahore	35.0	37.7	177.9	73	9.0	2.6	4.4	1.7	3.1
Larkana	40.5	43.5	208.9	68	0.0	2.9	2.1	4.6	4.6
Lasbella	39.5	42.0	***	62	16.0	6.1	1.1	1.1	10.0
Lower Dir	35.8	37.5	167.3	66	2.0	4.3	1.6	0.9	4.6
Malam Jabba	22.5	24.5	134.9	81	11.0	5.9	6.7	0.0	0.0
M.B Din	35.2	37.5	179.5	77	70.0	4.3	2.0	1.7	1.1
Mangla	34.9	37.5	174.4	76	90.0	5.3	3.6	2.3	2.3
Mir Khani	37.0	38.6	***	25	0.0	2.4	2.9	0.0	4.3
Moinjodaro	40.6	42.5	207.3	59	0.0	3.3	3.3	4.9	4.6

Multan	38.5	41.2	197.8	65	57.0	3.4	3.1	2.8	6.0
Murree	22.5	23.5	101.9	90	8.0	6.3	7.7	0.6	1.4
Muzaffarabad	35.9	37.3	174.8	67	58.1	5.0	3.4	0.0	0.0
Nokkundi	45.8	47.5	184.8	9	0.0	0.0	0.0	10.3	7.1
Noorpurthal	37.8	42.0	190.6	72	128.0	3.4	2.4	1.1	0.3
Okara	37.3	39.5	191.5	71	6.0	2.6	4.6	2.9	1.7
Padidan	38.9	39.5	200.4	72	0.0	3.6	2.3	2.0	2.6
Panjgur	40.5	42.0	207.1	38	0.0	0.6	1.3	0.0	8.6
Parachinar	34.6	37.0	***	54	0.0	4.3	4.7	2.7	3.3
Pasni	32.9	33.5	167.3	76	0.0	6.6	3.9	0.9	6.3
Pattan	38.2	40.0	***	50	0.0	3.6	1.4	0.0	2.6
Peshawar	35.2	38.5	179.4	73	2.1	5.3	1.6	1.1	2.3
Quetta	38.8	39.5	***	30	0.0	0.0	1.7	0.0	1.7
R.Y.Khan	40.6	43.3	204.8	69	16.0	4.1	3.0	2.6	2.0
Rawalakot	27.6	29.0	123.1	88	5.0	4.7	5.7	1.1	2.0
Rohri	40.9	43.5	212.5	54	10.0	4.1	1.4	3.7	2.9
Sahiwal	38.0	39.6	191.2	66	1.2	3.1	3.7	1.4	1.4
Saidu Sharif	33.2	36.0	***	74	21.0	4.3	1.9	0.0	0.9
Sialkot	34.5	36.0	175.6	74	20.0	4.7	4.9	0.9	1.1
Sibbi	43.1	45.0	219.6	51	16.0	2.3	2.3	0.0	0.0
Skardu	34.1	39.0	136.2	37	0.2	2.7	2.7	0.0	1.7
Zhob	37.3	38.5	184.0	67	2.0	2.3	4.5	7.9	11.0

*** Data not available