

TEMPERATURE REGIME DURING AUGUST, 2012

Temperature plays vital role in the growth and development of crops. Thermal regime in this month remained warmer than normal in most of the agricultural plains of the country. The main reason for this trend is the clear skies, which prevailed in most parts of the country for most of the days during the month. Mean daily temperature remained normal to above normal in all agricultural plains of the country except Lahore division, Quetta valley and Tandojam where it remained slightly below normal.

Mean daily temperature ranged 31 to 32°C in Khyber Pakhtoonkhawa, 29 to 30°C in Potohar plateau, 30 to 33°C in remaining parts of Punjab, 31 to 34°C in agricultural plains of Sindh, 24 to 27°C in Gilgit Baltistan region and it was observed 26°C in the high elevated agricultural plains of Balochistan represented by Quetta valley.

The day time temperature represented by mean maximum also remained above normal in most of the agricultural plains except Lahore in central Punjab and Rohri in upper Sindh where it observed below normal during month. The highest maximum temperature in the agricultural plains of the country was recorded 39.8°C at Rohri.

The night time temperature represented by mean minimum was observed normal to above normal by 1-2°C in most of the agricultural plains of the country during the month.

Agricultural soils showed mostly normal to warmer trend in most of the agricultural areas of the country except lower Sindh represented by Tandojam where soil temperature remained normal to slightly below normal at root zones. Whereas at Potohar region represented by Rawalpindi division, soil temperature was observed slightly above normal at shallow layers and slightly below normal at major root zone.

From the general analysis of soil and atmospheric behavior in this month, it is concluded that moisture deficiency was observed during the month due to warmer than normal atmosphere and soil. But satisfactory rains during the last decade of August and expected rains in the month of September may improve moisture content of soil and atmosphere in the coming months.

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STATION	TEMPERATURE (°C)					NUMBER OF STRESS DAYS WITH		
	DAILY	MAXIMUM		MINIMUM		MINIMUM TEMP ≤ 0°C	MAX. TEMP ≥ 35°C & R.H. ≤ 30 %	MAX. TEMP ≥ 40°C & R.H. ≤ 30 %
	MEAN	MEAN	HIGHEST	MEAN	LOWEST			
PESHAWAR	31.3 (30.7)	36.7 (35.7)	41.0 (48.0)	25.9 (25.7)	21.3 (19.0)	0	0	0
D.I. KHAN	31.6 (31.9)	36.9 (37.4)	40.0 (48.0)	26.3 (26.4)	21.5 (18.0)	0	0	0
KAMRA	29.1 ---	33.6 ---	41.5 ---	24.6 ---	22.5 ---	0	0	0
RAWALPINDI	29.3 (28.5)	34.5 (33.4)	39.0 (42.0)	24.0 (23.5)	17.0 (17.0)	0	0	0
JHELUM	29.9 (29.9)	34.5 (34.4)	38.5 (42.2)	25.2 (25.3)	22.2 (19.0)	0	0	0
SARGODHA	32.1 (31.4)	36.8 (36.3)	39.5 (44.4)	27.4 (26.4)	22.0 (19.5)	0	0	0
LAHORE	30.2 (30.7)	34.3 (35.0)	39.5 (44.0)	26.1 (26.4)	20.0 (19.0)	0	0	0
FAISALABAD	31.9 (31.3)	36.8 (36.1)	39.2 (42.0)	27.0 (26.6)	22.8 (18.6)	0	0	0
MULTAN	33.2 (33.0)	37.8 (38.0)	41.8 (45.0)	28.5 (28.0)	26.2 (21.1)	0	0	0
KHAN PUR	32.5 (32.4)	37.4 (38.4)	40.3 (44.0)	27.6 (26.3)	26.0 (18.0)	0	0	0
QUETTA	25.7 (26.4)	33.9 (34.8)	36.5 (40.6)	17.5 (17.9)	15.5 (3.0)	0	05	0
ROHRI	34.0 (32.7)	39.8 (38.7)	43.5 (47.0)	28.1 (26.7)	27.0 (17.5)	0	0	0
TANDOJAM	31.1 (31.5)	36.2 (36.3)	39.0 (44.0)	26.0 (26.7)	25.0 (22.0)	0	0	0
GILGIT	26.9 (26.7)	34.7 (35.3)	41.0 (43.8)	19.0 (18.1)	15.0 (10.0)	0	0	0
SKARDU	23.7 (23.8)	31.4 (31.2)	38.4 (41.0)	15.9 (16.4)	11.0 (9.0)	0	02	0

SOIL TEMPERATURE (°C)

STATION	TIME (PST)	DEPTHS (cm)					
		5	10	20	30	50	100
RAWALPINDI	8 AM	28.2 (27.8)	28.8 (27.6)	29.6 (28.8)	30.3 (29.4)	30.3 (29.4)	30.3 (28.2)
	2 PM	33.7 (34.5)	32.5 (32.5)	31.0 (30.0)	31.1 (29.2)	30.3 (29.3)	30.3 (28.2)
	5 PM	33.1 (33.4)	31.9 (32.7)	30.9 (30.8)	30.9 (29.9)	30.5 (29.3)	30.3 (28.2)
FAISALABAD	8 AM	31.3 (31.8)	31.4 (31.5)	32.8 (33.0)	33.5 (34.0)	33.3 (34.9)	31.8 (33.9)
	2 PM	39.9 (41.8)	37.6 (39.2)	34.9 (35.6)	33.8 (34.5)	33.2 (34.6)	31.8 (34.0)
	5 PM	38.4 (39.2)	37.7 (38.8)	35.7 (36.8)	34.1 (35.2)	33.1 (34.4)	31.8 (34.0)
TANDOJAM	8 AM	31.6 (31.0)	32.8 (31.7)	33.9 (32.6)	33.8 (33.4)	33.5 (33.5)	31.4 (32.8)
	2 PM	38.9 (38.7)	35.7 (35.4)	34.8 (33.2)	33.7 (33.4)	33.4 (33.5)	31.6 (32.6)
	5 PM	39.9 (38.5)	37.0 (37.1)	35.4 (35.0)	33.9 (34.0)	33.6 (33.5)	31.7 (32.6)
QUETTA	8 AM	24.5 (24.4)	24.7 (24.9)	27.8 (27.5)	21.8 (28.8)	27.9 (28.6)	28.2 (26.3)
	2 PM	35.9 (43.7)	33.3 (35.7)	28.9 (29.0)	22.0 (28.5)	27.9 (28.5)	28.4 (26.3)
	5 PM	35.8 (40.7)	34.0 (37.4)	30.8 (31.5)	23.1 (28.7)	27.9 (28.4)	28.4 (26.3)