

NORMALLY EXPECTED WEATHER DURING MAY, 2012

According to long term average, precipitation over Potohar plateau and upper Khyber Pakhtoonkhawa ranges between 25 mm and 40 mm, Central Punjab and Southern Khyber Pakhtoonkhawa 10 mm to 25 mm and rest of the agricultural plains of the country less than 10 mm. The probability of occurrence of rainfall during May over Potohar plains is given below:

AMOUNT/ DATES	PERCENTAGE PROBABILITY OF OCCURANCE OF DIFFERENT AMOUNTS OF RAINFALL IN MAY					
	1-5	6-10	11-15	16-20	21-25	26-31
10mm	20	25	16	13	26	17
15mm	12	16	12	7	14	12
25mm	4	8	8	5	8	4

The evaporative demand of the atmosphere during May would shoot up as compared to April due to drier and hotter crop atmosphere. It is expected to range between 6 mm/day and 8 mm/day throughout the country.

The mean daily air temperature may range between 30 to 35°C over most of the low agricultural plains of the country. In high agriculture plains of Balochistan it may be close to 25°C. Mean maximum temperature may range between 35 to 40°C over most parts of Khyber Pakhtoonkhawa and northern Punjab, it may range from 40 to 45°C in most of the Sindh plains and central Punjab. In Quetta valley it would be close to 30°C. Mean minimum temperature is expected to remain close to 25°C in most parts of Khyber Pakhtoonkhawa and upper Punjab whereas it would be between 20 to 25°C over the agricultural plains of central Punjab and adjoining areas of Sindh. In Quetta valley it may remain around 12°C. Moderate to severe hygrothermal stress is expected over most of the low elevation agricultural areas of the country.

Duration of bright sunshine hours may increase considerably all over the country due to clear sky and higher solar angle. The duration may increase to 9.5 hrs/day to 11 hrs/day. Direction of wind would be northwest to north with 6 km/hour speed over the plains of Punjab and Khyber Pakhtoonkhawa. The intensity of solar radiation may range from 21 MJ/M²/day to 24 MJ/M²/day over most of the agricultural plains of the country. The water requirements for healthy growing, full canopied crop in different regions of the country are given below:

S.No	Region	Water Requirements	
		mm	Cubic Meter/Hectare
1	Khyber Pakhtoonkhawa, High Plains of Balochistan & Northern Punjab.	180	1800
2	Central and Southern Punjab	200-210	2000-2100
3	Upper Sindh and adjoining Balochistan	220	2200
4	Lower Sindh	240	2400