

## **NORMALLY EXPECTED WEATHER DURING SEPTEMBER, 2012**

Most easterly currents (monsoon) are also expected to prevail during first fortnight of the month. These systems normally influence the north eastern parts of the country. Light to moderate rain/thunderstorm are expected in Khyber Pakhtoonkhawa, Northern divisions of Punjab and lower Sindh. Some post monsoon rains are also expected in the later part of the month.

The precipitation amount would be less relative to August. In Khyber Pakhtoonkhawa, Sindh and Southern Punjab, it may range from few millimeters to 30mm. Over northern and north eastern Punjab, the September precipitation may range between 80 to 110 mm. High agricultural plains of Balochistan are expected to remain practically dry during the month. **The probability of occurrence of rainfall is given below:**

Amount / Dates	PERCENTAGE PROBABILITY OF OCCURRENCE OF DIFFERENT AMOUNTS OF RAINFALL IN SEPTEMBER					
	1-5	6-10	11-16	17-20	21-25	26-30
<b>10mm</b>	53	44	36	39	18	25
<b>15mm</b>	44	34	30	32	13	19
<b>25mm</b>	39	30	14	21	08	12

Despite some drop in air temperature and smaller day length, the evaporative demand of the atmosphere will generally increase as compared to August. The reason for that increase in ETo values is relatively clear sky especially during the second fortnight. The ETo values may range from about 5 to 7mm/day with more or less uniformly increasing trend from north to south.

The mean daily relative humidity over the agricultural plains of the country may vary between 50 to 65% except high agricultural plains of Balochistan, where it would be around 40%.

The mean daily air temperature in crop atmosphere is expected to range between 29°C and 32°C except Quetta, where it may average to 22°C. The mean maximum temperature may vary between 33 to 38°C over most of the agricultural areas, whereas Quetta may experience it around 32°C. The mean minimum temperature is likely to remain in the range of 20 to 26°C and about 11°C at high agricultural plains of Balochistan.

The daily duration of bright sunshine is expected to range between 8 to 10 hours with an increasing tendency towards southern latitudes of the country. The mean daily wind speeds may vary from 4 to 9 Km/hour. Southerly component of wind may prevail over most parts of the country.

Rainfall during August contributed to soil moisture reserves for standing crops. Normal rainfall is expected during the month. Keeping in view prevailing weather and crop condition, following is the water requirement of full canopied healthy crops in different regions of the country during September:

S.No	Region	Water Requirement	
		(mm)	Cubic Meter/Hectare
1	Northern Punjab, K.P.K and high plains of Balochistan.	130-150	1300-1500
2	Southern Punjab, Upper Sindh and adjoining Balochistan	155-170	1550-1700
3	Lower Sindh Southern Balochistan	175-190	1750-1900