







Crop Weather Calendar of Wheat: Khulna Region (Districts: Khulna, Satkhira, Bagerhat and Narail) Bangladesh

Region: Khulna	Wheat											Duration: 119 days					
Months	November			December				January				February				March	
Std.Week/Normal	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10
Rainfall (mm)	8.0	3.0	3.5	1.0	4.0	0.0	1.0	3.0	1.5	0.0	3.5	5.5	6.5	5.0	13.5	6.5	2.5
Max. Temp. (°C)	30.1	29.5	28.5	27.7	27.0	26.0	25.6	25.0	25.0	25.8	26.2	27.0	27.7	29.0	30.1	31.0	32.4
Min. Temp. (°C)	19.3	18.0	16.3	15.3	14.5	13.4	12.6	12.2	12.2	12.7	12.4	13.9	14.5	16.2	17.0	18.1	19.4
Mean Temp. (°C)	24.7	23.7	22.4	21.5	20.7	19.7	19.1	18.6	18.6	19.2	19.3	20.4	21.1	22.6	23.6	24.5	25.9
RHmax (%)	95.9	95.8	95.5	94.7	95.7	95.8	95.7	95.4	95.2	94.9	94.9	95.1	94.5	94.3	94.3	93.7	93.7
RHMin (%)	51.3	49.0	46.7	47.3	48.8	49.2	47.8	48.7	46.9	46.8	44.3	44.9	43.4	43.9	41.8	40.7	40.7
RHmean (%)	73.6	72.4	71.1	71.0	72.2	72.5	71.7	72.0	71.0	70.8	69.6	70.0	69.0	69.1	68.0	67.2	67.2
SShr (hrs)	52.5	53.5	53.0	52.0	49.5	48.0	48.5	47.0	46.5	49.5	53.0	52.5	53.5	55.5	55.5	57.5	57.5
WD (deg)	189	197	197	194	189	181	177	175	182	198	198	190	193	209	218	222	227
WS(Km/hr)	3.8	4.3	4.3	4.0	4.5	4.1	4.6	4.6	4.7	4.3	4.6	4.9	5.0	4.8	5.0	4.9	5.2
																	
	sowing		Germination		Vegetative Growth				Flowe ring		Grain Formation			Maturity to Harvesting			

Favorable Weather Conditions					
Minimum temperature	3 to 4.5°C				cooler nights
Optimum temperature	Around 25°C				
Maximum Cardinal temperature	30- 32°C				
Mean Daily Temperature			15 to 20°C	15 to 20°C	
Soil Moisture	High				dryness
Solar radiation					Bright sunny days
daily consumptive water use			0.17 to 0.87	0.17 to 0.87	
Normal Phase wise water requirement (mm)	47		128		39
Weather Warning					
Rainfall	>50 mm/day		>100mm/day		>100mm/day
Duration of wet spell	>50 mm for 3-4 days		>75 mm for 3-4 days		>50mm for 3-4 days
Cloudy Weather			Cloudy Weather		Cloudy Weather
Drought	20 days		20 days		20 days
High wind	>50 km/hr		>50 km/hr		>50 km/hr
Maximum Temperature	>30°C		>30°C		>30°C
Minimum Temperature	<15°C		<15°C		<15°C

Congenial Weather Condition for Pests & Diseases					
Blast	Continuous rains and average temperatures between 18-20°C during the flowering stage of the crop followed by sunny weather and humid days. Intensity increases at 30°C temperature with high relative humidity				
Leaf rust	Temperature 15-25°C, rain and high dew				
Loose smut			Temperatu re. 22-25°C, Relative humidity 60-85%		
Stem borer			Maximum, minimum and average temperature ranged from 31.9-33.9°C, 22.2-26.3°C and 26.9-29.5°C, respectively. Average relative humidity of 80 per cent and rainfall		
Aphid			Mean temperature 18.7°C and relative humidity percentage 71.0%, mean weekly temperature 29.1 °C and relative humidity 55%		