







### Crop Weather Calendar of Wheat:KhulnaRegion (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	

<b>Favourable Weather Conditions</b>					
Minimum, and	3 to 4.5 <sup>o</sup> C				cooler nights
Optimum temperature	Around 25 <sup>o</sup> C				
Maximum Cardinal temperature	30- 32 <sup>o</sup> C				
Mean Daily Temperature		15 to 20 <sup>o</sup> C	15 to 20 <sup>o</sup> C		
Soil Moisture	High				dryness
Solar radiation					Bright sunny days
daily cu		0.17 to 0.87	0.17 to 0.87	0.17 to 0.87	
<b>Normal Phase wise water requirement (mm)</b>	47	128	77	137	39

<b>Weather Warning</b>			
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 <sup>o</sup> C	>30 <sup>o</sup> C	>30 <sup>o</sup> C
Minimum Temperature	<15 <sup>o</sup> C	<15 <sup>o</sup> C	<15 <sup>o</sup> C

<b>Congenial Weather Condition for Pests &amp; Diseases</b>					
<b>Blast</b>	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				
<b>Leaf rust</b>		Temperature 15-25 <sup>0</sup> C, rain and high dew			
<b>Loose smut</b>			Temperature. 22-25 <sup>0</sup> C, Relative humidity 60-85%		
<b>Stem borer</b>		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			
<b>Aphid</b>		Mean temperature 18.7°C and relative humidity percentage 71.0%, mean weekly temperature 29.1°C and relative humidity 55%			