







**Weather Calendar of Wheat: Rangpur Region (Districts: Rangpur, Kurigram, Gaibandha, Nilphamari, Lalmonirhat) Bangladesh**

Region: Rangpur	Wheat											Duration: 119 days					
Months	October			November				December				January				February	
Std.Week/Normal	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6
Rainfall (mm)	35.5	10.0	4.0	3.0	2.0	0.0	1.0	0.0	2.5	0.0	2.5	1.0	2.5	2.0	1.0	1.0	1.5
Max. Temp. (°C)	31.2	30.6	30.0	29.8	29.0	28.3	27.7	26.7	25.1	24.7	24.1	22.7	22.4	23.2	23.4	24.7	25.9
Min. Temp. (°C)	22.5	21.0	20.0	19.0	17.5	16.4	15.0	14.2	13.5	12.5	11.5	10.9	10.4	10.8	10.8	11.8	12.7
Mean Temp. (°C)	26.8	25.8	25.0	24.4	23.3	22.3	21.3	20.4	19.3	18.6	17.8	16.8	16.4	17.0	17.1	18.3	19.3
RHmax (%)	95.2	95.0	94.5	94.4	94.6	94.9	94.9	95.0	95.4	95.8	96.1	96.0	96.0	95.8	95.7	95.5	94.3
RHMin (%)	64.5	60.8	58.7	55.9	54.0	50.9	50.6	53.5	56.2	56.2	55.2	58.5	57.8	56.2	54.2	51.6	48.0
RHmean (%)	79.9	77.9	76.6	75.1	74.3	72.9	72.7	74.2	75.8	76.0	75.6	77.3	76.9	76.0	74.9	73.5	71.2
SShr (hrs)	51.5	56.5	55.5	55.0	52.0	54.0	53.0	49.5	41.5	42.5	40.0	36.0	36.5	39.5	41.0	44.0	48.5
WD (deg)	134	127	115	106	126	134	150	129	158	160	187	199	214	199	210	208	192
WS(Km/hr)	6.3	6.1	6.6	6.6	6.3	6.4	5.6	6.0	5.7	5.6	5.6	5.7	5.7	5.7	5.6	6.2	6.6
																	
	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	77	137
<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°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				Temperature 22-25°C, Relative humidity 60-85%	
Black point					Rain during ripening
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%		