









### Crop Weather Calendar of *Rabi* season Pointed gourd: Cumilla region (Districts: Cumilla, Chandpur, Brahmanbaria)

Region: Cumilla	Pointed Gourd- <i>Rabi</i> season									Duration: 100-120 days							
Month	October				November					December				January			
Std. Week/Normal	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4
Rainfall (mm)	51.0	46.5	30.5	16.0	11.5	18.0	8.5	4.0	2.5	0.00	4.5	1.0	1.5	0.0	0.0	0.0	1.5
Max. Temp. (°C)	32.3	31.9	31.8	31.2	31.0	30.5	29.8	29.0	28.2	27.7	26.5	25.8	25.4	24.7	24.5	25.0	25.4
Min. Temp. (°C)	25.4	24.7	24.3	22.8	21.8	21.0	19.3	18.1	16.9	15.8	15.0	14.2	13.4	13.0	12.7	12.7	12.6
Mean Temp. (°C)	28.8	28.3	28.0	27.0	26.4	25.7	24.6	23.5	22.5	21.7	20.8	20.0	19.4	18.8	18.6	18.9	19.0
RHmax (%)	95.6	95.7	95.5	95.2	95.3	95.6	95.3	95.4	95.8	95.8	96.2	96.0	96.0	96.0	95.5	95.3	94.4
RHMin (%)	70.2	68.1	65.8	61.9	60.6	58.2	54.8	52.6	52.2	50.6	51.9	52.1	51.3	51.8	51.2	49.1	46.4
RHmean (%)	82.9	81.9	80.6	78.5	77.9	76.9	75.0	74.0	74.0	73.2	74.1	74.1	73.6	73.9	73.4	72.2	70.4
SShr (hrs)	39.0	43.0	44.5	50.5	47.0	49.5	50.0	50.5	48.5	47.5	42.5	40.5	40.0	40.0	37.0	43.5	47.0
WD (deg)	203	214	201	187	202	183	184	190	195	206	192	211	213	205	209	218	212
WS(Km/hr)	4.6	4.3	4.3	4.0	3.5	3.7	3.7	3.5	3.3	3.3	4.0	3.5	3.8	4.0	4.2	4.6	4.4
																	
<b>Stage</b>	<b>Spouting &amp; Seedling</b>			<b>vegetative growth</b>				<b>Flowering &amp; fruiting</b>			<b>Harvesting</b>						
<b>Favourable Environment</b>																	
Temperature	Vine growth retarded below 15° C temperature, temperature 25-35° C (Vegetative growth, Flowering & fruiting)																
Relative Humidity	60-80%																
Soil Temperature	20-25° C																
Sunshine Hour	Minimum 6 to 8 hrs. (Vine transplanting), 8-10 hrs. (Vegetative growth, Flowering & fruiting)																
<b>Favorable environmental conditions for insects and diseases</b>																	
Fruit fly	Temperature: 24-30° C, RH: 55-75%																
Epilachna Beetle	Temperature: 25-30° C, RH: 55-65%																
Mealy bug	Temperature: 20-32° C, RH: 55-60%																
White fly	Temperature: 22-32° C, RH: 55-75%																
Red mite	Temperature: 15-26° C, RH: 60-70%																
Root knot (Nematode)	Temperature: 18-26° C, RH: 60-70%																
Powdery Mildew	Temperature: 22-27° C, Low humidity at day time and High humidity at night																
<b>Weather warning</b>																	
Rainfall (mm)	Late season rainfall (40mm or more)																
Cloudy weather	Cloudy																
Droughth	Drought due to excessive dry and warm weather (Pointed Gourd Drought Tolerant)																
Duration of staying wet	Lands remain waterlogged for 2-3 days																
Hailstorm	Late season rainfall with hailstorm																
Windspeed (Km/hr.)	≥ 40 Km/hr																
Temperature (°C)	Below 15°C																

### Crop Weather Calendar of *Kharif* season Pointed gourd: Cumilla region (Districts: Cumilla, Chandpur, Brahmanbaria)

Region: Cumilla	Pointed Gourd- Kharif season									Duration: 100-120 days								
Month	February			March						April			May					
Std.Week/Normal	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Rainfall (mm)	3.0	3.0	6.0	7.5	4.5	7.0	9.0	19.0	27.0	25.5	23.0	33.0	42.0	54.5	63.5	66.0	71.0	80.0
Max. Temp. (°C)	16.2	27.3	28.1	29.1	29.8	30.9	32.0	32.2	32.5	32.5	33.0	33.2	33.1	32.9	33.2	33.2	32.9	33.1
Min. Temp. (°C)	14.2	14.5	16.2	16.7	18.1	19.2	19.9	21.5	22.0	23.1	23.5	23.7	23.5	23.7	24.3	24.7	25.2	25.6
Mean Temp. (°C)	20.2	20.9	22.1	22.9	23.9	25.0	25.9	26.8	27.3	27.8	28.2	28.4	28.3	28.3	28.7	28.9	29.0	29.4
RHmax (%)	94.6	94.4	93.9	94.1	93.9	93.9	93.5	93.7	94.0	94.1	93.8	93.9	94.1	94.2	94.0	94.5	94.3	94.6
RHMin (%)	47.7	45.2	46.8	46.1	46.8	47.4	47.7	52.6	55.9	58.7	59.6	60.9	61.7	63.0	63.5	64.8	66.7	69.0
RHmean (%)	71.1	69.8	70.3	70.1	70.3	70.6	70.6	73.1	74.9	76.4	76.7	77.4	77.9	78.6	78.7	79.6	80.5	81.8
SShr (hrs)	47.0	50.0	49.5	50.5	52.5	52.5	52.5	51.0	48.5	51.0	52.0	52.5	51.0	47.5	47.5	46.5	41.0	38.0
WD (deg)	203	214	206	214	215	216	211	199	191	114	187	185	179	180	192	183	192	181
WS(Km/hr)	4.6	4.6	4.6	4.6	4.6	4.8	5.5	5.6	6.8	7.1	7.9	7.7	7.5	7.4	7.7	7.5	6.8	7.1
																		
<b>Stage</b>	<b>Spouting &amp; Seedling</b>			<b>vegetative growth</b>				<b>Flowering &amp; fruiting</b>				<b>Harvesting</b>						
<b>Favourable Environment</b>																		
Temperature	Vine growth retarded below 15° C temperature, temperature 25-35° C (Vegetative growth, Flowering & fruiting)																	
Relative Humidity	60-80%																	
Soil Temperature	20-25° C																	
Sunshine Hour	Minimum 6 to 8 hrs. (Vine transplanting), 8-10 hrs. (Vegetative growth, Flowering & fruiting)																	
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Red mite	Temperature: 15-26° C, RH: 60-70%																	
Root knot (Nematode)	Temperature: 18-26° C, RH: 60-70%																	
Powdery Mildew	Temperature: 22-27° C, Low humidity at day time and High humidity at night																	
<b>Weather warning</b>																		
Rainfall (mm)	Early rainfall (20 to 25mm)																	
Cloudy weather	Cloudy condition																	
Droughth	Drought due to excessive dry and warm weather (Pointed Gourd Drought Tolerant)																	
Duration of staying wet	Lands remain waterlogged for 2-3 days																	
Hailstorm	Early rainfall with hailstorm																	
Windspeed (Km/hr.)	≥ 40 Km/hr																	
Temperature (°C)	Below 15°C									Above 35°C								