







### Crop Weather Calendar of Maize: Cumilla Region (Districts: Cumilla, Chandpur, Bramanbaria) Bangladesh

Region: Cumilla	Maize (Rabi)										Duration: 112 days					
Months	November				December				January			February				
Std.Week/Normal	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8
Rainfall (mm)	18.0	8.5	4.0	2.5	0.0	4.5	1.0	1.5	0.0	0.0	0.0	1.5	3.0	3.0	6.0	7.5
Max. Temp. (°C)	30.5	29.8	29.0	28.2	27.7	26.5	25.8	25.4	24.7	24.5	25.0	25.4	26.2	27.3	28.1	29.1
Min. Temp. (°C)	21.0	19.3	18.1	16.9	15.8	15.0	14.2	13.4	13.0	12.7	12.7	12.6	14.2	14.5	16.2	16.7
Mean Temp. (°C)	25.7	24.6	23.5	22.5	21.7	20.8	20.0	19.4	18.8	18.6	18.9	19.0	20.2	20.9	22.1	22.9
RHmax (%)	95.6	95.3	95.4	95.8	95.8	96.2	96.0	96.0	96.0	95.5	95.3	94.4	94.6	94.4	93.9	94.1
RHMin (%)	58.2	54.8	52.6	52.2	50.6	51.9	52.1	51.3	51.8	51.2	49.1	46.4	47.7	45.2	46.8	46.1
RHmean (%)	76.9	75.0	74.0	74.0	73.2	74.1	74.1	73.6	73.9	73.4	72.2	70.4	71.1	69.8	70.3	70.1
SShr (hrs)	49.5	50.0	50.5	48.5	47.5	42.5	40.5	40.0	40.0	37.0	43.5	47.0	47.0	50.0	49.5	50.5
WD (deg)	183	184	190	195	206	192	211	213	205	209	218	212	203	214	206	214
WS(Km/hr)	3.7	3.7	3.5	3.3	3.3	4.0	3.5	3.8	4.0	4.2	4.6	4.4	4.6	4.6	4.6	4.6
																
	sowing	Germination	Vegetative Growth					Silking & Tasseling			Cob Formation		Maturity to Harvesting			
<b>Favorable Weather Conditions</b>																
Temperature	At least 10°C for germination										22-25°C		23-27°C			
Light Intensity			≤200% of normal													
Relative Humidity			High													
Soil Temperature			Above 16°C													
Normal phase wise water requirement (mm)	76		120					190			145		100			
<b>Congenial Weather Condition for Pests &amp; Diseases</b>																
Fall Army worm	A threshold temperature of 10.9°C and 559 day-degrees C is required for development. Sandy-clay or clay-sand soils are suitable for pupation and adult emergence. Emergence in sandy-clay and clay-sand soils was directly proportional to temperature and inversely proportional to humidity. Above 30°C the wings of adults tend to be deformed. Pupae require a threshold temperature of 14.6°C and 138 day-degrees C to complete their development.															
Seed Rot	A threshold temperature of 10.9°C and 559 day-degrees C is required for development. Sandy-clay or clay-sand soils are suitable for pupation.															
<b>Weather Warning</b>																
Rain	>50 mm/day					>100 mm/day			>50 mm/day							
Duration of wet spell	>25 mm for 3 days					>50 mm for 4 days			20 mm for 4 days							
Cloudy weather						Cloudy weather			Cloudy weather							
High wind	>50 km/hr					>40 km/hr			>30 km/hr							
Temperature	Minimum Temperature <10°C					Minimum Temperature <10°C			Minimum Temperature <10°C							