







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		

Favorable Weather Conditions					
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

Congenial Weather Condition for Pests & Diseases					
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.				

Weather Warning					
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		