







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

Region: Cumilla	Maize (kharif-1)											Duration: 112 days				
Months	April		May				June				July			August		
Std.Week/Normal	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Rainfall (mm)	33.0	42.0	54.5	63.5	66.0	71.0	80.0	74.0	98.5	88.5	97.5	96.0	88.0	107.0	95.0	84.0
Max. Temp. (°C)	33.2	33.1	32.9	33.2	33.2	32.9	33.1	32.7	31.9	31.9	31.4	31.2	31.5	31.3	31.5	32.0
Min. Temp. (°C)	23.7	23.5	23.7	24.3	24.7	25.2	25.6	25.8	25.7	26.0	26.0	26.0	26.0	25.7	26.0	25.9
Mean Temp. (°C)	28.4	28.3	28.3	28.7	28.9	29.0	29.4	29.3	28.8	28.9	28.7	28.6	28.7	28.5	28.7	28.9
RHmax (%)	93.9	94.1	94.2	94.0	94.5	94.3	94.6	95.0	95.0	95.2	95.2	95.4	95.0	95.5	95.3	94.9
RHMin (%)	60.9	61.7	63.0	63.5	64.8	66.7	69.0	70.9	73.9	75.1	76.8	76.8	75.9	76.6	75.2	74.2
RHmean (%)	77.4	77.9	78.6	78.7	79.6	80.5	81.8	82.9	84.4	85.1	86.0	86.1	85.4	86.0	85.2	84.5
SShr (hrs)	52.5	51.0	47.5	47.5	46.5	41.0	38.0	36.0	26.5	29.0	26.0	23.5	30.0	26.5	31.0	30.0
WD (deg)	185	179	180	192	183	192	181	186	177	175	174	179	174	174	179	178
WS(Km/hr)	7.7	7.5	7.4	7.7	7.5	6.8	7.1	6.5	7.3	7.0	7.4	7.3	7.0	7.5	6.7	6.7
																
	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	