







Crop Weather Calendar of Maize:KhulnaRegion (Districts: Khulna, Satkhira, Bagerhat and Narail) Bangladesh

Region: Khulna	Maize (Rabi)												Duration: 112 days			
Months	December				January				February				March			
Std.Week/Normal	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12
Rainfall (mm)	1.0	4.0	0.0	1.0	3.0	1.5	0.0	3.5	5.5	6.5	5.0	13.5	6.5	2.5	6.5	13.5
Max. Temp. (°C)	27.7	27.0	26.0	25.6	25.0	25.0	25.8	26.2	27.0	27.7	29.0	30.1	31.0	32.4	33.4	34.1
Min. Temp. (°C)	15.3	14.5	13.4	12.6	12.2	12.2	12.7	12.4	13.9	14.5	16.2	17.0	18.1	19.4	20.4	22.0
Mean Temp. (°C)	21.5	20.7	19.7	19.1	18.6	18.6	19.2	19.3	20.4	21.1	22.6	23.6	24.5	25.9	26.9	28.1
RHmax (%)	94.7	95.7	95.8	95.7	95.4	95.2	94.9	94.9	95.1	94.5	94.3	94.3	93.7	93.7	93.5	94.5
RHMin (%)	47.3	48.8	49.2	47.8	48.7	46.9	46.8	44.3	44.9	43.4	43.9	41.8	40.7	40.7	40.2	44.2
RHmean (%)	71.0	72.2	72.5	71.7	72.0	71.0	70.8	69.6	70.0	69.0	69.1	68.0	67.2	67.2	66.8	69.3
SShr (hrs)	52.0	49.5	48.0	48.5	47.0	46.5	49.5	53.0	52.5	53.5	55.5	55.5	57.5	57.5	59.0	57.0
WD (deg)	194	189	181	177	175	182	198	198	190	193	209	218	222	227	233	204
WS(Km/hr)	4.0	4.5	4.1	4.6	4.6	4.7	4.3	4.6	4.9	5.0	4.8	5.0	4.9	5.2	5.6	6.3
																
	sowing	Germination	Vegetative Growth				Silking& Tasseling				Cob Formation		Maturity to Harvesting			

Favorable Weather Conditions					
Temperature	At least 10 ^o C for germination			22-25 ^o C	23-27 ^o C
Light Intensity		≤200% of normal			
Relative Humidity		High			
Soil Temperature		Above 16 ^o 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 ^o 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 ^o C the wings of adults tend to be deformed. Pupae require a threshold temperature of 14.6 ^o C and 138 day-degrees C to complete their development.				
Seed Rot	A threshold temperature of 10.9 ^o 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 ^o C	Minimum Temperature <10 ^o C	Minimum Temperature <10 ^o C		