







Crop Weather Calendar of Mazie: Rangpur Region (Districts: Rangpur, Kurigram, Gaibandha, Nilphamari, Lalmonirhat) Bangladesh

Region: Rangpur	Maize (Rabi)											Duration: 112 days				
Months	October			November				December				January				Feb.
Std.Week/Normal	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5
Rainfall (mm)	35.5	10.0	4.0	3.0	2.0	0.0	1.0	0.0	2.5	0.0	2.5	1.0	2.5	2.0	1.0	1.0
Max. Temp. (°C)	31.2	30.6	30.0	29.8	29.0	28.3	27.7	26.7	25.1	24.7	24.1	22.7	22.4	23.2	23.4	24.7
Min. Temp. (°C)	22.5	21.0	20.0	19.0	17.5	16.4	15.0	14.2	13.5	12.5	11.5	10.9	10.4	10.8	10.8	11.8
Mean Temp. (°C)	26.8	25.8	25.0	24.4	23.3	22.3	21.3	20.4	19.3	18.6	17.8	16.8	16.4	17.0	17.1	18.3
RHmax (%)	95.2	95.0	94.5	94.4	94.6	94.9	94.9	95.0	95.4	95.8	96.1	96.0	96.0	95.8	95.7	95.5
RHMin (%)	64.5	60.8	58.7	55.9	54.0	50.9	50.6	53.5	56.2	56.2	55.2	58.5	57.8	56.2	54.2	51.6
RHmean (%)	79.9	77.9	76.6	75.1	74.3	72.9	72.7	74.2	75.8	76.0	75.6	77.3	76.9	76.0	74.9	73.5
SShr (hrs)	51.5	56.5	55.5	55.0	52.0	54.0	53.0	49.5	41.5	42.5	40.0	36.0	36.5	39.5	41.0	44.0
WD (deg)	134	127	115	106	126	134	150	129	158	160	187	199	214	199	210	208
WS(Km/hr)	6.3	6.1	6.6	6.6	6.3	6.4	5.6	6.0	5.7	5.6	5.6	5.7	5.7	5.7	5.6	6.2
																
	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
				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	