





Crop Weather Calendar of *Rabi* season Tomato: Cumilla region (Districts: Cumilla, Chandpur, Brahmanbaria)

Region: Cumilla	Tomato-Rabi sesaon													Duration: 120-150 days							
Month	September				October				November					December				January			
Std. Week/Normal	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	01	02	03	04
Rainfall (mm)	53	66.5	68	53	51	46.5	30.5	16	11.5	18	8.5	4	2.5	0	4.5	1	1.5	0	0	0	1.5
Max. Temp. (°C)	32.8	32	32	32	32.3	31.9	31.8	31.2	31	30.5	29.8	29	28.2	27.7	26.5	25.8	25.4	24.7	24.5	25	25.4
Min. Temp. (°C)	25.7	25.6	25.6	25.6	25.4	24.7	24.3	22.8	21.8	21	19.3	18.1	16.9	15.8	15	14.2	13.8	13	12.7	12.7	12.6
Mean. Temp. (°C)	28.8	28.8	28.8	28.8	28.8	28.3	28	27	26.4	25.7	24.6	23.5	22.5	21.7	20.8	20	19.9	18.8	18.6	18.9	19
RHmax (%)	95.2	95.4	95.4	95.6	95.6	95.5	95.5	95.2	95.3	95.6	95.3	95.4	95.8	95.8	96.2	96	96	96	95.5	95.3	94.4
RHmin (%)	73.5	73.1	72.2	71.1	70.2	68.1	65.8	61.9	60.6	58.2	54.8	5.6	52.2	50.6	51.9	52.1	51.3	51.8	51.2	49.1	46.4
RHmean (%)	84.3	84.3	83.8	83.3	82.9	81.9	80.6	78.6	77.9	76.9	75	74	74	73.2	74.1	74.1	73.6	73.9	73.4	72.2	70.4
SShr (hrs)	32	33	33.5	35	39	43	44.5	50.5	47	49.5	50	50.5	48.5	47.5	42.5	40.5	40	40	37	43.5	47
WD (degree)	186	191	197	201	203	214	201	187	202	183	184	190	195	206	192	211	213	205	209	218	212
WS(Km/hr)	5.3	5.7	4.7	4.7	4.6	4.3	4.3	4	3.5	3.7	3.7	3.5	3.3	3.3	4	3.5	3.8	4	4.2	4.6	4.4
																					
Stages	Spouting & Seedling				Vegetative growth				Flowering and Fruiting					Harvesting							
Favourable Weather																					
Temperature														18-25 °C							
Relative humidity														50-70%							
Soil temperature														20-25 °C							
Sunshine hour														6-8 hr							
Favourable weather for disease and pest infestation																					
White fly	15°C to 32°C, the optimum temperature for white fly population buildup is 20 °C to 24°C; Hot weather (high temperature) and low humidity with little or no rainfall are conducive for the multiplication and infestation of white fly																				
Tomato fruit borer														19.73°C to 31.44 °C; Average relative humidity ranging from 86.18% to 93.61 %							
Leaf miner														Grow best at 29.5°C to 32.0 °C and maximum temperature range for it to resist is at 34.18°C to 40.5 °C; Rainfall had positive and significant effect on leaf miner population							
Early blight														Disease develops at moderate to warm (15°C to 30°C) temperatures; relative humidity 90% or greater, moderately to heavy rainfall							
Late blight														Temperature: 15-27°C, prolonged hot dry days increased disease infestation; relative humidity 75 to 90% or greater							
Fungal Wilting	Dry atmospheric conditions, Max. Soil temperature 35°C to 43.5°C; Mini. Soil temperature 25°C to 30 °C; RH: 30%-50%																				
Weather warning																					
Rainfall (mm)	≥20 mm rainfall at the end of the rainy season (September- January)																				
Cloudy weather														Cloudy condition							
Drought														Drought (moisture stress) due to excessive dry weather							
Duration of staying wet	Land remain waterlogged for 2 to 4 days																				
Hailstorm	Late season rainfall with hailstorm																				
Windspeed														≥15 km/hr							
Temperature (°C)														30-32°C							

