









Crop Weather Calendar of Rabi Tomato: Khulna Region (Districts: Khulna, Norail, Bagerhat & sathkhira) Bangladesh

Khulna Region	Rabi Tomato										Life cycle of crop, 140-150										
	October				November					December				January				February			
Months	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8
Std. Week	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8
Rainfall (mm)	41.0	38.5	31.5	26.5	9.5	13.0	8.0	3.0	3.5	1.0	4.0	0.0	1.0	3.0	1.5	0.0	3.5	5.5	6.5	5.0	13.5
Max. Temp. (°C)	32.7	32.7	32.4	31.7	31.0	31.0	30.1	29.5	28.5	27.7	27.0	26.0	25.6	25.0	25.0	25.8	26.2	27.0	27.7	29.0	30.1
Min. Temp. (°C)	25.5	25.0	24.2	22.5	21.5	20.6	19.3	18.0	16.3	15.3	14.5	13.4	12.6	12.2	12.2	12.7	12.4	13.9	14.5	16.2	17.0
Mean Temp. (°C)	29.1	28.9	28.3	27.1	26.3	25.8	24.7	23.7	22.4	21.5	20.7	19.7	19.1	18.6	18.6	19.2	19.3	20.4	21.1	22.6	23.6
RHmax (%)	96.8	96.5	96.2	96.3	96.0	95.6	95.9	95.8	95.5	94.7	95.7	95.8	95.7	95.4	95.2	94.9	94.9	95.1	94.5	94.3	94.3
RHMin (%)	69.2	65.6	63.3	59.2	57.4	53.9	51.3	49.0	46.7	47.3	48.8	49.2	47.8	48.7	46.9	46.8	44.3	44.9	43.4	43.9	41.8
RHmean (%)	83.0	81.1	79.8	77.8	76.7	74.7	73.6	72.4	71.1	71.0	72.2	72.5	71.7	72.0	71.0	70.8	69.6	70.0	69.0	69.1	68.0
SShr (hrs)	41.5	47.5	49.5	52.5	48.5	53.5	52.5	53.5	53.0	52.0	49.5	48.0	48.5	47.0	46.5	49.5	53.0	52.5	53.5	55.5	55.5
WD (deg)	189	203	193	184	173	176	189	197	197	194	189	181	177	175	182	198	198	190	193	209	218
WS(Km/hr)	4.3	3.7	4.1	3.8	3.4	4.1	3.8	4.3	4.3	4.0	4.5	4.1	6	4.6	4.7	4.3	4.6	4.9	5.0	4.8	5.0
																					
Stages	Germination and Seedling Planting				Vegetative Growth					Flowering & 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 per day at the end of the rainy season (September-November)																				
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 to 32°C										

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Khulna Region	RabiTomato								V									
Months	March					April				May					June			
Std.Week	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Rainfall (mm)	6.5	2.5	6.5	13.5	16.0	12.5	12.5	17.5	25.0	31.5	32.5	37.0	47.5	50.0	52.0	77.5	79.0	93.5
Max. Temp. (°C)	31.0	32.4	33.4	34.1	34.0	35.0	35.2	35.2	35.2	35.1	35.2	35.3	35.1	35.0	34.7	33.4	32.7	32.3
Min. Temp. (°C)	18.1	19.4	20.4	22.0	22.7	24.0	24.3	24.9	25.0	25.0	25.3	25.8	26.0	26.4	26.8	26.2	26.3	26.1
Mean Temp. (°C)	24.5	25.9	26.9	28.1	28.4	29.5	29.8	30.1	30.1	30.0	30.2	30.6	30.5	30.7	30.7	29.8	29.3	29.2
RHmax (%)	93.7	93.7	93.5	94.5	94.1	94.3	93.7	93.3	93.2	93.0	93.1	93.4	93.7	93.9	94.2	95.1	95.7	95.8
RHMin (%)	40.7	40.7	40.2	44.2	47.3	48.8	49.2	52.4	53.7	55.3	57.4	57.9	60.7	62.0	64.9	70.2	73.3	75.1
RHmean (%)	67.2	67.2	66.8	69.3	70.7	71.5	71.4	72.8	73.4	74.1	75.2	75.7	77.2	77.9	79.5	82.6	84.5	85.4
SShr (hrs)	57.5	57.5	59.0	57.0	56.5	59.0	60.0	61.5	58.0	59.5	56.5	55.0	47.0	50.0	41.5	29.5	23.5	25.0
WD (deg)	222	227	233	204	203	202	196	192	186	186	183	177	180	184	178	170	175	179
WS(Km/hr)	4.9	5.2	5.6	6.3	7.2	7.1	7.6	7.6	8.0	7.5	7.5	7.1	7.2	7.3	6.7	6.8	6.8	6.8
																		
Stages	Germination and Seedling Planting				Vegetative Growth				Flowering & Fruiting				Harvesting					
Favourable Weather																		
Temperature									26-32°C									
Relative humidity									50-80%									
Soil temperature									22-26 °C									
Sunshine hour									8-10 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																	
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