





Crop Weather Calendar of Rabi Garlic: Cumilla Region (Districts: Cumilla, Chandpur, B.Baria) Bangladesh

Region: Cumilla	Rabi Garlic																Life cycle of crop: 140-150							
Months	October				November				December				January				February							
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)	51.0	46.5	30.5	16.0	11.5	18.0	8.5	4.0	2.5	0.0	4.5	1.0	1.5	0.0	0.0	0.0	1.5	3.0	3.0	6.0	7.5			
Max. Temp. (°C)	32.3	31.9	31.8	31.2	31.0	30.5	29.8	29.0	28.2	27.7	26.5	25.8	25.4	24.7	24.5	25.0	25.4	16.2	27.3	28.1	29.1			
Min. Temp. (°C)	25.4	24.7	24.3	22.8	21.8	21.0	19.3	18.1	16.9	15.8	15.0	14.2	13.4	13.0	12.7	12.7	12.6	14.2	14.5	16.2	16.7			
Mean Temp. (°C)	28.8	28.3	28.0	27.0	26.4	25.7	24.6	23.5	22.5	21.7	20.8	20.0	19.4	18.8	18.6	18.9	19.0	20.2	20.9	22.1	22.9			
RHmax (%)	95.6	95.7	95.5	95.2	95.3	95.6	95.3	95.4	95.8	95.8	96.2	96.0	96.0	96.0	95.5	95.3	94.4	94.6	94.4	93.9	94.1			
RHMin (%)	70.2	68.1	65.8	61.9	60.6	58.2	54.8	52.6	52.2	50.6	51.9	52.1	51.3	51.8	51.2	49.1	46.4	47.7	45.2	46.8	46.1			
RHmean (%)	82.9	81.9	80.6	78.5	77.9	76.9	75.0	74.0	74.0	73.2	74.1	74.1	73.6	73.9	73.4	72.2	70.4	71.1	69.8	70.3	70.1			
SShr (hrs)	39.0	43.0	44.5	50.5	47.0	49.5	50.0	50.5	48.5	47.5	42.5	40.5	40.0	40.0	37.0	43.5	47.0	47.0	50.0	49.5	50.5			
WD (deg)	203	214	201	187	202	183	184	190	195	206	192	211	213	205	209	218	212	203	214	206	214			
WS(Km/hr)	4.6	4.3	4.3	4.0	3.5	3.7	3.7	3.5	3.3	3.3	4.0	3.5	3.8	4.0	4.2	4.6	4.4	4.6	4.6	4.6	4.6			
Stages																								
	Germination and Seedling Planting				Vegetative Growth				Flowering & Fruiting				Harvesting											
Favorable environment																								
Temperature	Suitable growth temperature :13 to 24°C; Relatively high temperature up to 30°C is required for optimum bulb development whereas cool and moist climate condition in the early stage favored vegetative growth.																							
Relative Humidity	Excessive humidity and rainfall are detrimental to both vegetative and bulb formation stage																							
Soil Temperature																								
Sunshine Hour	The critical day length for bulbing is 10-12 h for short-day garlic and 13-14 h for long-day garlic.																							
Favorable environmental conditions for insects and diseases																								
Red spider mites	High temperature accelerated the developmental rate and reduced the duration of developmental periods of immature stages.																							
Thrips	Hot and dry weather increases Thrips population also associated with lack of rainfall; Heavy rainfall reduces population, RH:47.67 to 78.62																							
Basal rot	The disease generally appears when soil temperature is 25-28 °C along with high soil moisture; high temperature and drought increases the disease incidence; Relative humidity is above 70%.																							
Blight disease	Optimum temperature: 20-31°C; Humidity 85-96%; Cloudy rainy weather in the crop stand.																							
Weather warning																								
Rainfall (mm)	15 mm to 20 mm per day causes high soil moisture										5 to 10 mm per day													
Cloudy weather	Cloudy weather																							
Drought																								
Duration of stay wet (day)	3 to 5 days										2 to 3 days													
Hailstorms	Early rainfall with hailstorm																							
Wind speed (Km/hr.)	Less than 40 km/hr										Less than 40 km/hr													
Temperature (°C)	Above 35°C																							