

## Crop Weather Calendar of *Rabi* season Chili: Chattogram Region (Districts: Chattogram, Lakshmipur, Cox'sbazar, Noakhali and Feni) Bangladesh

Region: Chattogram	Rabi season Chili																Life span: 180-200 days											
Months	December				January				February				March				April				May							
Std Wk./Normal	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
Rainfall (mm)	1.0	4.0	2.3	2.0	0.3	0.7	0.7	1.3	2.0	1.3	2.3	8.3	4.7	5.3	6.3	13.3	21.3	21.3	27.0	34.3	36.0	62.7	61.3	70.3	88.7	88.0		
Max. Temp. (°C)	28.6	27.8	26.9	26.6	26.5	26.1	26.6	26.9	27.7	28.7	29.3	29.8	30.6	31.2	32.0	32.0	31.8	32.1	32.6	32.7	32.9	32.8	32.9	32.8	32.5	32.3		
Min. Temp. (°C)	17.0	16.3	15.3	14.9	14.1	13.9	14.1	14.1	14.9	15.8	16.9	17.6	18.8	19.8	20.7	21.8	22.7	23.5	24.0	24.4	24.5	24.5	24.8	25.2	25.2	25.6		
Mean Temp. (°C)	22.8	22.1	21.1	20.8	20.3	20.0	20.4	20.5	21.3	22.2	23.1	23.7	24.7	25.5	26.3	26.9	27.2	27.8	28.3	28.6	28.7	28.7	28.9	29.0	28.9	29.0		
RH Max (%)	94.4	94.2	94.4	94.1	93.8	93.1	92.9	91.6	91.0	90.6	90.4	91.0	90.8	91.1	91.3	93.0	93.0	93.3	92.9	92.6	92.8	92.9	93.3	93.5	93.9	94.0		
RHMin (%)	49.5	50.0	50.3	49.1	48.2	47.1	44.9	42.3	43.6	41.2	43.3	43.9	44.8	46.6	47.4	54.0	58.2	60.1	60.5	61.6	62.0	62.3	64.1	66.1	68.9	70.2		
RHmean (%)	71.9	72.1	72.3	71.6	71.0	70.1	68.9	67.0	67.3	65.9	66.8	67.5	67.8	68.8	69.4	73.5	75.6	76.7	76.7	77.1	77.4	77.6	78.7	79.8	81.4	82.1		
SShr (hrs)	54.8	52.8	50.8	51.3	53.3	50.8	53.8	56.5	56.3	57.8	57.5	58.5	60.3	59.3	56.8	57.0	52.8	56.0	56.0	54.8	55.3	52.8	55.0	48.0	42.8	40.3		
WD (deg)	204	196	199	207	200	193	203	203	201	203	208	214	221	215	223	218	207	209	205	205	202	199	203	199	186	185		
WS(Km/hr)	5.1	5.7	5.8	6.2	6.6	6.9	6.8	7.0	7.1	7.3	7.7	7.9	8.6	8.7	8.9	9.4	9.7	10.0	11.1	10.6	10.6	10.1	10.0	10.1	10.0	10.2		
Stages																												
Favorable Environment	Spouting & Seedling				vegetative growth								Flowering & fruiting				Harvesting											
Temperature	The ideal average monthly temperatures range between 21°C and 30 °C, with an average of 18 °C; Germination and growth decreases at lower temperature (10°C); Fruit set is adversely affected at temperatures above 35 °C as well as wilting of young parts, and slow growth occurred, especially with low air humidity or dry winds.																											
Relative Humidity	Sensitive to excess moisture and the high relative humidity;The optimum relative humidity varies from 50% to 70%.																											
Soil Temperature	Chili seeds can germinate and grow normally at soil temperatures of 15°C to 25°C, with the optimum around 20°C. Chili can tolerate moderately cold soil temperatures of 13°C to 15°C.																											
Sunshine Hour	At least 4 to 6 hours direct sunlight per day																											
<b>Favorable environmental conditions for insects and diseases</b>																												
Mites	Maximum temp.: 33 to 35°C; Raise a generation in 1 week under optimal conditions (25°C and high relative humidity); Minimum Temp.: 12 to 14°C;The prevailing high temperature and low relative humidity in absence of rainfall favored the population development of mites to reach the peak abundance.																											
Aphids	Moderate to high temperature and relative humidity favors population buildup of aphids																											
Thrips	Grow minimum temperature 9.7°C and maximum temperatures, 33.0°C; Population remains more abundant during prolonged dry conditions than in moist rainy periods; Heavy rainfall reduces population																											
White fly	Population increases at high temperatures; white fly population is low at humidity ≤45% and ≥85% and abundant at 70–85% RH																											
Fruit Borer	The upper development threshold temperature for all stages is 37 °C, and 40 °C is lethal; The optimum temperatures for the development of eggs, larvae, and pupae are around 24–27 °C; RH: 85% to ≤35%.																											
Leaf curl	Vector (White fly) population and virus transmission increased at 35 °C (max. temp.); Disease development correlated with relative humidity as the humidity decreased the disease incident decreased; Disease development favored by certain rainfall																											
Die back/Anthracnose	Max. Temp.: 28 °C to 32°C for disease development; Mini. Temp.: 22°C to 25°C for disease development; Initial infection required 95% or above relative humidity for 24 hrs; Frequent rainy and warm weather alone with prolonged leaf wetness favored disease development.																											
<b>Weather Warning</b>																												
Rainfall	Early rainfall (10 to 15 mm per day)																											
Cloudy weather	Cloudy weather																											
Drought	Short to moderate drought (7 to 10 days)																											
Duration of staying wet	2 to 3 days																											
Hailstorm	Hailstorms with early rainfall																											
Windspeed	≤20 Km/hr																											
Temperature	Germination and growth decreases at lower temperature (10°C),Fruit set is adversely affected at temperatures above 35 °C																											