









Crop Weather Calendar of Rabi Chili: Bogra Region (Districts: Bogra, Pabna, Sirajgonj, Joypurhat) Bangladesh

Bogra Region	Rabi Chili								Life span 150-160 days												
	December				January				February				March				April				
Months	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Std.Week/Normal	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Rainfall (mm)	0.0	3.0	0.0	4.0	0.0	2.0	2.0	1.0	1.0	1.0	4.0	3.0	5.0	2.0	4.0	3.0	8.0	8.0	12.0	26.0	28.0
Max. Temp. (°C)	27.7	26.3	25.0	25.7	24.0	24.0	24.3	25.4	25.9	26.9	27.7	28.6	29.3	30.9	31.9	32.9	32.9	33.9	34.3	34.0	33.6
Min. Temp. (°C)	15.0	14.1	12.0	13.4	12.0	11.4	11.4	12.0	12.9	13.6	14.6	15.4	16.4	17.4	18.3	20.0	21.1	22.3	23.0	23.0	23.1
Mean Temp. (°C)	21.4	20.2	18.7	19.6	18.1	17.7	17.9	18.7	19.4	20.3	21.2	22.0	22.9	24.2	25.1	26.5	27.0	28.1	28.7	28.5	28.4
RHmax (%)	93.7	94.6	94.3	94.6	94.1	94.3	94.3	93.9	93.1	92.1	91.4	90.4	88.7	89.1	86.4	86.3	87.7	88.0	88.3	90.6	90.9
RHMin (%)	48.1	50.6	50.6	50.0	50.9	49.0	47.7	46.0	44.9	41.4	40.3	39.1	38.0	36.9	37.1	39.1	45.3	44.4	45.9	50.7	54.9
RHmean (%)	70.9	72.6	72.5	72.3	72.5	71.7	71.0	70.0	69.0	66.8	65.9	64.8	63.4	63.0	61.8	62.7	66.5	66.2	67.1	70.7	72.9
SShr (hrs)	54	48	49.0	46.0	44.0	44.0	46.0	50.0	50.0	52.0	53.0	56.0	60.0	59.0	61.0	58.0	56.0	56.0	56.0	55.0	52.0
WD (deg)	222	232	249	248	258	247	239	252	249	233	234	229	235	230	225	205	176	173	164	149	134
WS(Km/hr)	3.7	3.9	3.7	3.7	4.3	5.4	4.8	5.0	5.4	5.6	5.6	6.7	5.7	6.3	6.7	6.7	6.8	6.7	6.3	6.8	7.4
																					
Stage	Spouting & Seedling				vegetative growth				Flowering & fruiting				Harvesting								
Favorable Environment																					
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																				
Favorable environmental conditions for insects and diseases																					
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.																				
Weather Warning																					
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																				

Crop Weather Calendar of Kharif Chili: Bogra Region (Districts: Bogra, Pabna, Sirajgonj, Joypurhat) Bangladesh

Bogra Region	Kharif Chili:										Life span 150-160 days											
Months	April				May				June				July				August					
Std. Week/Normal	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Rainfall (mm)	8.0	12.0	26.0	28.0	37.0	42.0	45.0	58.0	59.0	74.0	70.0	92.0	76.0	93.0	80.0	91.0	76.0	63.0	61.0	72.0	67.0	56.0
Max. Temp. (°C)	33.9	34.3	34.0	33.6	33.1	33.6	33.4	33.3	33.9	33.4	32.7	32.3	32.3	32.0	31.9	32.0	32.1	32.3	32.6	32.1	32.3	32.6
Min. Temp. (°C)	22.3	23.0	23.0	23.1	23.3	23.9	24.3	24.6	25.0	25.9	26.0	26.1	26.1	26.0	26.1	26.0	26.1	26.3	26.9	26.3	26.4	26.1
Mean Temp. (°C)	28.1	28.7	28.5	28.4	28.2	28.8	28.9	29.0	29.5	29.7	29.4	29.2	29.2	29.0	29.0	29.0	29.1	29.3	29.8	29.2	29.4	29.4
RHmax (%)	88.0	88.3	90.6	90.9	92.4	92.4	92.7	93.0	93.7	94.1	95.1	95.1	95.6	95.9	95.9	95.9	95.9	95.1	95.3	95.6	95.9	95.7
RHMin (%)	44.4	45.9	50.7	54.9	57.3	58.7	60.0	63.4	64.6	66.7	70.4	72.4	73.9	73.3	74.1	74.4	73.3	72.0	71.9	73.3	72.7	71.7
RHmean (%)	66.2	67.1	70.7	72.9	74.9	75.6	76.4	78.2	79.2	80.4	82.8	83.8	84.8	84.6	85.0	85.2	84.6	83.6	83.6	84.5	84.3	83.7
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WD (deg)	173	164	149	134	127	126	126	121	135	134	134	134	132	141	135	138	143	137	136	141	147	142
WS(Km/hr)	6.7	6.3	6.8	7.4	7.2	7.4	6.7	6.3	6.3	6.3	7.2	6.3	6.7	5.6	5.6	6.8	6.1	6.3	5.7	6.1	5.6	5.6
																						
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