









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

Khulna Region	Rabi Chili																Life span: 170-180 days										
Months	November				December				January				February				March					April					
Std.Week/Normal	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
Rainfall (mm)	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	6.5	2.5	6.5	13.5	16.0	12.5	12.5	17.5	25.0		
Max. Temp. (°C)	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	31.0	32.4	33.4	34.1	34.0	35.0	35.2	35.2	35.2		
Min. Temp. (°C)	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	18.1	19.4	20.4	22.0	22.7	24.0	24.3	24.9	25.0		
Mean Temp. (°C)	25.8	24.7	23.7	22.4	21.5	20.7	19.7	19.1	18.6	18.6	19.2	19.3	20.3	21.1	22.6	23.6	24.5	25.9	26.9	28.1	28.4	29.5	29.8	30.1	30.1		
RHmax (%)	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	93.7	93.7	93.5	94.5	94.1	94.3	93.7	93.3	93.2		
RHMin (%)	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	40.7	40.7	40.2	44.2	47.3	48.8	49.2	52.4	53.7		
RHmean (%)	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	67.2	67.2	66.8	69.3	70.7	71.5	71.4	72.8	73.4		
SShr (hrs)	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	57.5	57.5	59.0	57.0	56.5	59.0	60.0	61.5	58.0		
WD (deg)	176	189	197	197	194	189	181	177	175	182	198	198	190	193	209	218	222	227	233	204	203	202	196	192	186		
WS(Km/hr)	4.1	3.8	4.3	4.3	4.0	4.5	4.1	4.6	4.6	4.7	4.3	4.6	4.9	5.0	4.8	5.0	4.9	5.2	5.6	6.3	7.2	7.1	7.6	7.6	8.0		
																											
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																										

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

Khulna Region	Kharif Chili																				Life span: 170-180 days			
Months	এপ্রিল (বৈশাখ)		মে (বৈশাখ-জ্যৈষ্ঠ)				জুন (জ্যৈষ্ঠ-আষাঢ়)				জুলাই (আষাঢ়-শ্রাবণ)				আগস্ট (শ্রাবণ-ভাদ্র)				সেপ্টেম্বর (ভাদ্র-আশ্বিন)					
Std.Week/Normal	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
Rainfall (mm)	17.5	25.0	31.5	32.5	37.0	47.5	50.0	52.0	77.5	79.0	93.5	92.0	74.5	94.0	76.5	79.5	69.0	76.5	63.0	60.5	66.0	65.0	59.5	76.5
Max. Temp. (°C)	35.2	35.2	35.1	35.2	35.3	35.1	35.0	34.7	33.4	32.7	32.3	32.0	32.1	31.8	32.1	32.1	32.1	32.0	32.4	32.5	32.1	32.3	32.8	32.8
Min. Temp. (°C)	24.9	25.0	25.0	25.3	25.8	26.0	26.4	26.8	26.2	26.3	26.1	26.0	26.2	26.1	26.1	26.0	26.4	26.1	26.4	26.2	26.0	26.0	26.0	25.8
Mean Temp. (°C)	30.1	30.1	30.0	30.2	30.6	30.5	30.7	30.7	29.8	29.3	29.2	29.0	29.1	28.9	29.1	29.0	29.2	29.0	29.4	29.3	29.1	29.1	29.4	29.3
RHmax (%)	93.3	93.2	93.0	93.1	93.4	93.7	93.9	94.2	95.1	95.7	95.8	96.0	95.5	95.9	95.8	95.6	95.6	96.1	96.0	95.9	96.2	96.5	96.7	96.7
RHMin (%)	52.4	53.7	55.3	57.4	57.9	60.7	62.0	64.9	70.2	73.3	75.1	75.5	74.6	77.0	75.5	74.8	74.5	75.1	73.7	73.7	74.0	73.7	71.6	70.2
RHmean (%)	72.8	73.4	74.1	75.2	75.7	77.2	77.9	79.5	82.6	84.5	85.4	85.7	85.1	86.4	85.6	85.2	85.0	85.6	84.8	84.8	85.1	85.1	84.1	83.4
SShr (hrs)	61.5	58.0	59.5	56.5	55.0	47.0	50.0	41.5	29.5	23.5	25.0	21.5	27.0	24.5	29.0	30.0	29.5	31.0	32.5	31.5	32.0	34.5	36.0	38.0
WD (deg)	192	186	186	183	177	180	184	178	170	175	179	186	175	175	179	170	172	170	178	172	173	181	188	190
WS(Km/hr)	7.6	8.0	7.5	7.5	7.1	7.2	7.3	6.7	6.8	6.8	6.8	5.6	5.6	6.6	6.2	6.5	5.9	6.5	5.6	5.6	5.5	5.5	4.6	4.8
																								
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