Crop Weather Calendar of Rabi Chilli: Barisal Region (Districts: Barisal, Potuakhali, Jalokhati, Borguna&Bhola) Bangladesh

Barisal Region	Rabi Chilli Life span: 180-185 day																						
Months	November December									January February						March							
StdWk	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13		
Rainfall (mm)	100.0	9.0	6.0	7.0	1.7	4.0	1.3	0.7	1.3	1.0	1.0	1.7	2.7	3.7	5.0	8.0	5.7	5.3	6.0	14.3	18.0		
Max. Temp. (°C)	31.2	29.6	29.3	28.3	27.8	27.0	26.2	25.7	25.1	25.2	25.8	26.2	27.0	27.8	28.9	29.7	30.7	31.7	32.7	33.0	32.9		
Min. Temp. (°C)	26.0	19.6	18.4	16.7	15.6	14.9	14.0	13.1	12.6	12.5	12.7	12.5	14.0	14.6	16.2	16.9	18.3	19.5	20.5	22.1	22.8		
Mean Temp. (°C)	28.6 24.8 23.9		22.5	21.7	21.0	20.1	19.4	18.9	18.9	19.2	19.4	20.5	21.2	22.5	23.3	24.5	25.6	26.6	27.6	27.9			
RHmax (%)	97.4	97.8	97.8	97.8	98.0	97.9	98.2	98.2	98.0	97.8	97.6	97.6	97.3	97.1	97.0	97.0	96.7	97.1	96.7	96.5	96.5		
RHMin (%)	78.9	56.6	53.7	51.8	50.6	50.9	50.7	50.3	50.1	49.3	48.5	45.2	46.2	44.8	46.2	45.1	44.9	45.2	45.3	50.7	54.4		
RHmean (%)	88.2	77.2	75.8	74.8	74.3	74.4	74.4	74.3	74.1	73.6	73.1	71.4	71.7	70.9	71.6	71.0	70.8	71.2	71.0	73.6	75.4		
SShr (hrs)	26.0	49.0	50.0	51.3	48.7	46.3	44.3	43.7	46.7	44.0	47.3	52.7	50.3	52.3	51.7	52.0	53.7	54.0	54.3	52.3	50.7		
WD (deg)	173	232	217	212	225	223	212	212	209	211	204	216	217	211	214	211	214	226	218	210	198		
WS(Km/hr)	6.4	2.7	3.3	3.6	3.1	3.4	3.3	3.9	4.5	4.4	4.5	4.3	5.0	4.6	4.9	4.9	5.1	5.2	5.4	6.3	6.7		
Stages	Sp	outing & S	eedling		ve	getative gr	owth		Flowering & fruiting						1	Harvesting							
	avorable Environment emperature 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											all aa											
Temperature										o; Germina	lion and gr	owth decrea	ases at lowe	er tempera	ure (10°C);	Fruit set i	s adversely affected	a at tempe	ratures abov	e 35 °C as	well as		
Relative Humidity	wilting of young parts, and slow growth occurred, especially with low air humidity or dry winds. Sensitive to excess moisture and the high relative humidity; The optimum relative humidity varies from 50% to 70%.																						
Soil Temperature			Chili	i seeds can	germinate												old soil temperatures	s of 13°C t	to 15°C.				
Sunshine Hour										At least 4 t	o 6 hours	direct sunlig	ht per day										
Favorable environmental conditions for	insects ar	nd diseases	5	I Maritana	1	- 2500 D-1-		to a to do	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														
Mites									ak abundance.														
Aphids	favored the population development of mites to reach the pea Moderate to high temperature and relative humidity fav										up of aphid	S											
Thrips																							
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 upp	er develop	ment thres	hold temper 24–27 °C; F	rature for a RH: 85% to	II stages is ≤35%.	37 °C, and	40 °C is	lethal; The optimu	m tempera	atures for the	e developm	ent of eggs,		
Leaf curl															ed with rela	tive hum	idity as the humidit	y decreas	ed the disea	se inciden	t decreased;		
Die back/Anthracnose	Disease development favored by certain rainfall 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						,g.w.																	
Rainfall									Early rainfall (10 to 15 mm per day)														
Cloudy weather	Cloudy weather																						
Drought Drought	Short to moderate drought (7 to 10 days)																						
Duration of staying wet Hailstorm	2 to 3 days 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																						
	Gennination and growth decleases at lower temperature (10 O), i full set is develoed at temperatures above 35 O																						

Crop Weather Calendar of Kharif Chilli: Barisal Region (Districts: Barisal, Potuakhali, Jalokhati, Borguna & Bhola) Bangladesh

Barisal Region	Kharif Chilli Life span: 180-200 day																											
Months	Α	pril			May				Jı	ıne			J	uly				Augu	st			Septe	mber	October				
StdWk	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
Rainfall (mm)	25.0	34.7	40.7	52.7	49.0	69.3	66.7	85.3	105.3	129.7	126.3	129.0	91.7	111.7	115.0	100.0	92.7	95.7	82.3	81.0	73.0	77.7	72.3	75.0	55.3	57.3	41.0	25.0
Max. Temp. (°C)	33.5	33.5	33.6	33.4	33.4	33.2	33.3	32.8	31.9	31.3	31.0	31.0	31.1	30.08	31.0	31.2	31.2	31.2	31.5	31.5	31.2	31.5	32.0	32.0	31.9	32.1	32.0	31.7
Min. Temp. (°C)	24.6	24.4	24.4	25.1	25.2	25.7	26.0	26.1	26.0	26.0	26.0	26.0	26.0	26.0	25.9	26.0	26.0	26.0	26.0	26.0	25.9	25.9	26.0	25.5	25.2	25.2	24.3	22.9
Mean Temp. (°C)	29.1	29.0	29.0	29.3	29.3	29.5	29.6	29.4	28.9	28.6	28.5	28.5	28.6	28.6	28.5	28.6	28.6	28.5	28.8	28.8	28.6	28.7	29.0	28.7	28.6	28.6	28.1	27.3
RHmax (%)	96.0	96.0	96.1	96.2	96.1	96.2	96.5	96.4	96.6	97.0	97.3	97.4	97.4	97.4	97.6	97.4	97.3	97.2	97.3	97.3	97.4	97.7	97.6	98.0	97.9	98.0	97.8	97.8
RHMin (%)	61.9	62.5	64.2	65.9	67.5	69.6	70.9	73.2	76.9	79.2	80.6	80.7	79.4	81.0	80.0	78.9	78.6	79.0	77.6	77.4	77.6	76.4	74.6	73.9	72.3	70.4	68.0	63.7
RHmean (%)	78.9	79.3	80.1	81.1	81.8	82.9	83.7	84.8	86.8	88.1	89.0	89.0	88.4	89.2	88.8	88.2	88.0	88.1	87.5	87.4	87.5	87.1	86.1	85.9	85.1	84.2	82.9	80.7
SShr (hrs)	54.7	51.7	49.0	48.0	46.0	37.3	37.3	30.7	23.0	21.3	20.3	20.3	23.3	21.0	25.3	26.0	25.7	26.0	27.3	29.0	28.3	29.3	29.7	33.0	36.7	41.3	44.7	48.7
WD (deg)	197	191	190	192	189	186	187	185	177	179	175	180	175	177	175	173	180	176	184	182	185	191	209	212	220	229	228	212
WS(Km/hr)	7.5	7.2	7.0	7.3	7.1	7.0	7.0	6.3	6.5	6.8	6.5	6.5	6.5	6.5	6.5	6.4	5.6	6.5	5.7	5.6	5.0	5.0	4.5	4.5	4.0	3.2	3.6	3.1
Stages	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%. 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.																											
Soil Temperature					Chili se	eds can	germinat	e and gro	ow norma	lly at soil	temperatu							an toler	ate modera	ately cold	soil temper	ratures of	13°C to	15°C.				
Sunshine Hour												A.	t least 4 t	o 6 hours	direct sunli	ight per da	у			1								
Favorable environmental	conditio	ns for ins	ects and	a disease	es	Mavim	ım temn :	33 to 359	C. Raise a	generation	n in 1 week	under onti	mal condit	ions (25°C	and high re	lative humic	lity). Minin	num Tem	n · 12 to 14	°C:The pre	evailing high	temperati	ire and lo	w relative	humidity ir	n ahsence	of rainfall t	favored
Mites						the pop	ulation de	evelopmer	nt of mites t	o reach th	e peak abu	ndance.		•	<u> </u>	iduve ridiriie	iity), iviii iii	iuiii i Ciii	ip 12 to 14	O, THE PIC	cvalling mgm	tomperate	arc aria io	w relative	numunty m	Tabaciicc	or railfiair i	avoica
Aphids		Moderate to high temperature and relative humidity favors population buildup of aphids Grow at minimal temperatures as low as 9.7°C and maximum temperatures as high as 33.0°C; Population remains more																										
Thrips						abund	ant durin	ig prolon	ged dry co	onditions	than in mo	ist rainy p	eriods; H	eavy rainfa	all reduces	population	1											
White fly						Popula	ation incr	eases at	high temp	peratures	; white fly	population				≥85% and												
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.																											
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