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

Cumilla Region	Rabi Chili												Life span: 120-130 days													
Months	Octo	ber	November							Dece	mber		I	January				February				March				
Std.Week/Normal	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13
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	4.5	7.0	9.0	19.0	27.0
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	29.8	30.9	32.0	32.2	32.5
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	18.1	19.2	19.9	21.5	22.0
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	23.9	25.0	25.9	26.8	27.3
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	93.9	93.9	93.5	93.7	94.0
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	46.8	47.4	47.7	52.6	55.9
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	70.3	70.6	70.6	73.1	74.9
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	52.5	52.5	52.5	51.0	48.5
WD (deg)	203	214	201	187	202	183	184	190	195	206	192	211	213	205	209	218	212	203	214	206	214	215	216	211	199	191
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	4.6	4.8	5.5	5.6	6.8
Tro(rumm)	7.0	7.5	1.5	7.0	3.3	3.7	Market 1	3.5	3.5	3.5	4.0	-3.5	3.0	T.O	7.2			4.0	4.0	7.0	1 4.0	7.0	4.0	J.5	J.0	0.0
	o with the same of																V. 16									
	E 16 16 16 16 16 16 16 16 16 16 16 16 16												7.4										V (e)	HAV	X	
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 I	east 4 to	6 hours o	direct sur	nlight per c	lay		T								
Favorable environmental conditions for insects and diseases 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																										
Mites											under opti h the peak			o and nigh	i relative nu	imiaity); ivi	ınımum 16	emp.: 12 to	5 14 °C;111	ie prevaiiir	ng nign ten	iperature	and low re	elative num	lidity in ab	sence of
Aphids													ouildup of	aphids												
Thrips					Grow m	ninimum t	emperati	ure 9.7°C	and max	imum ter	nperature	s, 33.0°		ition rema	ains more	abundan	t during									
White fly						tion incre									and ≥85	% and al	oundant									
Fruit Borer					at 70–0	3% KII					The up	oer deve	lopment t	hreshold	temperat	ure for all	stages is	s 37 °C, a	and 40 °	C is letha	al; The op	timum te	mperatur	es for the	develop	ment of
	The upper development threshold temperature for all stages is 37 °C, and 40 °C is lethal; The optimum temperatures for the development eggs, larvae, and pupae are around 24–27 °C; RH: 85% to ≤35%. 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 incide															a sida d										
Leaf curl					decreas	sed; Dise	ase deve	lopment	favored b	y certain	rainfall		•	- ,												
Die back/Anthracnose											t; Mini. Te ored dise			C for disc	ease deve	elopment;	Initial inf	fection re	equired 9	5% or ab	ove relat	ive humi	dity for 2	4 hrs; Fre	equent ra	iny and
Weather Warning																										
Rainfall		•	•	•		•								•			Early rair	nfall (10 to	o 15 mm	per day)	•	•	•			
Cloudy weather														weather												
Drought															derate dro	ought (7 t	o 10 day	s)								
Duration of staying wet					1						T		2 to 3	days			11-9-4	La mas 2 20	ا المحادات	-:						
Hailstorm											1		-201	(m/h=			Halist	torms wit	n early ra	aintall						
Windspeed							Cormin	ation and	l growth a	looroooo	ot lower	tompore		(m/hr	set is adve	rook offo	otod at to	omnorot	roe obov	'0 35 °C						
Temperature							Germin	ialion and	growth C	iecieases	at lower	tempera	iture (10°	o),rfuit s	et is adve	isely affe	cieu at te	emperatu	ires abov	6 32 C						

Cumilla Region	lla Region Kharif Chili															Life span: 170-180 days											
Months	March April						May							June				July	1			August					
Std.Week/Normal	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	
Rainfall (mm)	7.0	9.0	19.0	27.0	25.5	23.0	33.0	42.0	54.5	63.5	66.0	71.0	80.0	74.0	98.5	88.5	97.5	96.0	88.0	107.0	95.0	84.0	66.5	82.5	73.0	66.0	
Max. Temp. (°C)	30.9	32.0	32.2	32.5	32.5	33.0	33.2	33.1	32.9	33.2	33.2	32.9	33.1	32.7	31.9	31.9	31.4	31.2	31.5	31.3	31.5	32.0	32.0	31.9	32.0	32.0	
Min. Temp. (°C)	19.2	19.9	21.5	22.0	23.1	23.5	23.7	23.5	23.7	24.3	24.7	25.2	25.6	25.8	25.7	26.0	26.0	26.0	26.0	25.7	26.0	25.9	26.0	26.0	26.0	25.9	
Mean Temp. (°C)	25.0	25.9	26.8	27.3	27.8	28.2	28.4	28.3	28.3	28.7	28.9	29.0	29.4	29.3	28.8	28.9	28.7	28.6	28.7	28.5	28.7	28.9	29.0	28.9	29.0	28.9	
RHmax (%)	93.9	93.5	93.7	94.0	94.1	93.8	93.9	94.1	94.2	94.0	94.5	94.3	94.6	95.0	95.0	95.2	95.2	95.4	95.0	95.5	95.3	94.9	94.8	94.9	95.3	95.0	
RHMin (%)	47.4	47.7	52.6	55.9	58.7	59.6	60.9	61.7	63.0	63.5	64.8	66.7	69.0	70.9	73.9	75.1	76.8	76.8	75.9	76.6	75.2	74.2	73.9	74.8	74.0	73.4	
RHmean (%)	70.6	70.6	73.1	74.9	76.4	76.7	77.4	77.9	78.6	78.7	79.6	80.5	81.8	82.9	84.4	85.1	86.0	86.1	85.4	86.0	85.2	84.5	84.3	84.9	84.6	84.2	
SShr (hrs)	52.5	52.5	51.0	48.5	51.0	52.0	52.5	51.0	47.5	47.5	46.5	41.0	38.0	36.0	26.5	29.0	26.0	23.5	30.0	26.5	31.0	30.0	31.5	32.0	30.5	34.5	
WD (deg)	216	211	199	191	194	187	185	179	180	192	183	192	181	186	177	175	174	179	174	174	179	178	182	177	182	179	
WS(Km/hr)	4.8	5.5	5.6	6.8	7.1	7.9	7.7	7.5	7.4	7.7	7.5	6.8	7.1	6.5	7.3	7.0	7.4	7.3	7.0	7.5	6.7	6.7	6.2	6.6	5.8	5.6	
Stage																											
			uting & Se			vegetative growth								Flowering & fruiting						Harvesting							
Stages	Spouting & Seedling							vegetative growth							Flowering & fruiting						Harvesting						
Favorable Environment																											
Temperature								d 30 °C, w midity or d		erage of 18	3 °C; Ger	mination a	nd growth	n decrease	es at lowe	er tempera	ture (10°C	;); Fruit se	t is advers	sely affecte	ed at temp	eratures a	above 35	°C as well	as wilting	j of	
Relative Humidity			-		•	-										ative humi											
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	distana fan in		d d!aaaa								Α	t least 4 to	6 hours	direct sun	ilight per c	day											
Favorable environmental con	aitions for in	isects and	a aisease	S		Maximu	m temn : 3	33 to 35°C:	Raise a ne	eneration in	1 week u	nder ontima	al condition	ns (25°C ar	nd high rel	ative humic	lity): Minim	ıım Temn :	12 to 14°0	C:The preva	ilina hiah t	emnerature	and low r	elative hun	nidity in ah	sence of	
Mites	S									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 rainfall favored the population development of mites to reach the peak abundance.															301100 01		
Aphids									Moderate to high temperature and relative humidity favors population buildup of aphids Grow minimum temperature 9.7°C and maximum temperatures, 33.0°C; Population remains more abundant during prolonged dry																		
Thrips	s													Population	remains	more abu	ındant du	ring prolor	nged dry								
White fly										s; Heavy ra				midity < 15	0/, and >8	25% and a	hundant a	+ 70 95%	DLI								
Fruit Borer									Population increases at high temperatures; white fly population is low at humidity ≤45% and ≥85% and abundant at 70–85% RH 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%.														for the				
Leaf curl								r) population												umidity as		ity decrea	sed the d	lisease ind	cident dec	reased;	
Die back/Anthracnose						Max. T	emp.: 28		for disea	se develo	pment; N			25°C for	disease d	levelopme	nt; Initial i	nfection re	equired 95	5% or abov	e relative	humidity	for 24 hrs	; Frequer	t rainy an	id warm	
Weather Warning						weathe	i alulic W	iai proiorig	eu ieai Wi	cuicoo iav	JIGU UISE	ase devel	γριτιστιι.														
Rainfall																		Early rai	infall (10 to	o 15 mm p	er day)					$\overline{}$	
Cloudy weather													Cloudy	weather				•									
Drought															t to moder	rate droug	ht (7 to 10	days)					·				
Duration of staying wet						1							2 to	3 days													
Hailstorm													-00	17 //-				Hails	storms wit	h early rair	ntall						
Windspeed								orminatio-	and ara	th doors	00 04 10	or tomas=		Km/hr	ot io adva	rooly offer	tod of to-	noroture -	about 25	· · · ·							
Temperature							G	ermination	and grow	ui decreas	ses at low	er temper	ature (10)	U),Fruit S	et is adve	usely attec	ilea at ten	iperatures	above 35) (