Crop Weather Calendar of Rabi Chili: Jashore Region (Districts: Jashore, Kushtia, Chuadanga, Jhenaidah, Meherpur, Magura) Bangladesh

Region: Jashore	Rabi Bottle gourd											Life span 170-180 days														
Months		November							Dece	December January						Feb	ruary		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)	44.5	33.0	26.5	20.0	9.0	8.0	7.5	1.0	2.0	1.5	4.0	0.0	3.5	0.5	1.5	2.5	3.0	6.5	5.0	4.5	8.0	4.0	2.5	4.5	11.5	12.0
Max. Temp. (°C)	33.2	33.0	32.7	31.9	31.1	31.1	30.3	29.6	28.5	27.7	26.6	25.7	25.2	24.5	24.5	25.1	25.6	26.6	27.8	28.9	30.0	31.0	32.4	33.6	34.7	34.6
Min. Temp. (°C)	25.1	24.4	23.4	21.6	20.7	19.4	18.0	16.7	15.1	14.0	13.4	12.3	11.4	10.9	10.7	11.0	10.8	12.0	13.3	14.7	15.6	16.4	17.7	19.0	20.8	21.8
Mean Temp. (°C)	29.1	28.7	28.0	26.7	25.9	25.3	24.2	23.1	21.8	20.9	20.0	19.0	18.3	17.7	17.6	18.0	18.2	19.3	20.5	21.8	22.8	23.7	25.0	26.3	27.7	28.2
RHmax (%)	96.5	96.5	96.5	96.1	95.9	95.9	95.7	95.7	95.4	95.2	95.8	95.5	95.7	95.4	95.3	95.3	94.9	94.9	94.2	94.0	93.7	93.2	92.5	92.1	92.1	92.4
RHMin (%)	67.0	64.4	61.5	57.1	56.2	52.0	49.8	48.1	46.3	47.2	49.2	49.4	47.9	49.6	47.9	47.0	44.7	44.2	42.2	41.0	39.3	36.5	35.4	34.9	36.7	42.0
RHmean (%)	81.7	80.4	79.0	76.6	76.0	74.0	72.8	71.9	70.8	71.2	72.5	72.5	71.8	72.5	71.6	71.2	69.8	69.5	68.2	67.5	66.5	64.9	63.9	63.9	64.4	67.2
SShr (hrs)	40.0	43.5	47.0	49.0	45.5	48.5	49.5	47.5	48.5	47.5	43.5	42.0	42.0	41.0	42.5	44.5	48.0	48.5	49.5	50.0	54.5	55.0	54.0	55.0	53.0	51.5
WD (deg)	195	198	187	182	153	175	177	179	178	184	183	177	174	158	156	188	192	186	191	203	214	219	213	230	212	208
WS(Km/hr)	3.1	3.0	2.9	2.5	2.5	2.3	2.4	2.3	2.4	2.3	2.4	2.5	2.5	3.0	3.0	3.0	3.0	3.2	3.1	3.3	3.7	3.5	3.9	4.1	4.4	4.7
Stage		Spouting	& Seedli	ng			vegetativ	e growth					Flo	wering &	fruiting							Harvest	ing			
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.												wilting												
Relative Humidity			_																0% to 70%							
Soil Temperature				Chili	seeds can	germinate	and grov	v normall	y at soil te	emperatur			•				i can toler	ate mode	rately cold	l soil temp	peratures (of 13°C t	o 15°C.			
Sunshine Hour											A	t least 4 to	6 hours	direct sun	light per c	lay		1								
Favorable environmental condition	ns for insect	s and dis	seases		Maximu	m temp.: 33) to 25°C.	Daisa a a	norotion i	a 1 waak u	ander entin	aal aanditia	no (DE°C a	and high re	lativa hum	idital. Min	imum Tom	n : 10 to 1	1°C.The nr	rovoilina hi	ah tamaar	atura and	love rolotive	. h. maidit. i	n ahaanaa	of roinfall
Mites					favored	the populat	ion develop	ment of m	ites to read	ch the peak	c abundanc	ce.	,		elative num	liaity), iviiri	imum rem	p 12 to 1	4 C, The pr	evalling ni	gri tempera	ature and	iow relative	numicity i	n absence	oi rainiali
Aphids						te to high																				
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					Populat 85% RI	tion increa	ses at hig	h temper	atures; w	hite fly po	pulation i	s low at h	umidity ≤	45% and	≥85% and	d abunda	nt at 70–									
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%.													of eggs,											
Leaf curl						(White fly												d with rela	ative humi	idity as th	ne humidi	ty decrea	ased the o	disease in	cident de	creased;
Die back/Anthracnose					Max. Te	emp.: 28 °	C to 32°C	for disea	se develo	pment; M			25°C for	disease d	evelopme	ent; Initial	infection	required 9	95% or abo	ove relativ	ve humidit	ty for 24 I	hrs; Frequ	ent rainy	and warm	weather
Weather Warning																										
Rainfall		Early rainfall (10 to 15 mm per day)																								
Cloudy weather														weather												
Drought															oderate d	rought (7	to 10 day	/s)								
Duration of staying wet											1		2 to 3	3 days												
Hailstorm													-00	17 //				Hailstorm	s with ear	ty rainfall						
Windspeed	≤20 Km/hr																									

Crop Weather Calendar of kharif Bottle gourd: Jashore Region (Districts: Jashore, Kushtia, Chuadanga, Jhenaidah, Meherpur, Magura) Bangladesh

Region: Jashore		Kharif chilli Life span: 170-180 days																									
Months			April				May				Jı	une		July					August September								
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	36	37	38	39	
Rainfall (mm)	11.5	7.0	12.5	21.5	28.5	30.5	36.0	44.5	38.5	49.5	54.5	81.0	72.5	82.0	72.0	83.5	73.0	63.5	56.0	68.0	48.5	50.5	52.5	68.0	59.0	69.5	
Max. Temp. (°C)	35.5	36.1	36.5	36.3	36.0	36.0	35.9	35.5	35.6	35.3	34.0	33.3	33.0	32.7	32.9	32.7	32.7	33.0	32.8	32.7	33.1	33.3	32.9	32.9	33.0	33.2	
Min. Temp. (°C)	22.8	23.5	24.1	24.2	24.2	25.2	25.0	25.5	26.0	26.2	26.2	26.1	26.2	26.0	26.1	26.2	26.2	26.0	26.2	26.0	26.1	26.0	26.0	26.0	26.0	25.3	
Mean Temp. (°C)	29.2	29.8	30.3	30.3	30.1	30.6	30.4	30.5	30.8	30.7	30.1	29.7	29.6	29.4	29.5	29.5	29.4	29.5	29.5	29.3	29.6	29.6	29.5	29.5	29.5	29.2	
RHmax (%)	92.4	92.9	92.4	92.3	92.8	92.7	93.1	93.6	94.0	94.1	94.8	95.7	96.0	96.1	96.1	96.1	96.1	96.0	96.2	96.5	96.2	96.2	96.4	96.6	96.3	96.6	
RHMin (%)	41.5	41.6	44.3	46.9	49.9	51.7	54.8	58.7	60.0	62.1	67.5	71.7	73.5	74.4	73.4	74.6	73.4	72.6	73.0	73.0	71.7	71.0	71.5	70.8	69.7	67.7	
RHmean (%)	66.9	67.2	68.3	69.6	71.3	72.2	74.0	76.1	77.0	78.1	81.1	83.7	84.7	85.2	84.7	85.3	84.7	84.3	84.6	84.7	83.9	83.6	83.9	83.7	83.0	82.1	
SShr (hrs)	55.5	54.5	54.5	55.5	54.0	51.5	52.5	46.5	45.5	41.5	32.0	26.5	26.0	24.5	29.0	25.0	29.5	32.5	30.0	28.0	30.5	32.5	31.5	33.0	32.5	38.5	
WD (deg)	209	204	193	188	186	186	180	181	180	183	174	175	178	186	178	180	177	172	175	175	185	171	180	186	187	195	
WS(Km/hr)	5.1	5.2	5.7	5.6	5.6	5.8	5.2	5.2	5.0	4.6	4.9	4.6	4.6	4.4	4.3	4.4	4.7	4.3	4.4	4.3	3.9	4.1	4.1	4.1	3.8	3.7	
Stage		Sn	Outing & S	Seedling				vegetat	ive growth					Flo	wering & fr	uiting						Har	vesting				
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.												oung														
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	6 hours di	rect sunligh	nt per day				1								
Favorable environmental	l condition	s for insec	cts and di	seases										conditions (ive humic	dity); Minir	num Tem	p.: 12 to	14°C;The	e prevailir	ng high te	mperature	and low	relative	
Aphids														reach the p	beak abund	iance.											
Thrips		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 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 Drought		Cloudy weather Short to moderate drought (7 to 10 days)																									
Duration of staying wet						<u> </u>							2 to 3 (J IIIUUEIALE	urougnt (1 to 10 da	ауој									
Hailstorm		Hailstorms with early rainfall																									
Windspeed		≤20 Km/hr																									