









Crop Weather Calendar of Rabi Bottle gourd: Chattogram Region (Districts: Chattogram, Lakshmpur, Coxsbazar, Noakhali and Feni) Bangladesh

Region: Chattogram	Rabi Bottle gourd																			Duration: 180-190 days								
Months	October			November				December					January				February				March					April		
Std.Week/Normal	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	14	15	16
Rainfall (mm)	75.7	43.7	26.0	19.3	21.7	14.3	9.0	11.7	1.0	4.0	2.3	2.0	0.3	0.7	0.7	1.3	2.0	1.3	2.3	8.3	4.7	5.3	6.3	13.3	21.3	21.3	27.0	34.3
Max. Temp. (°C)	31.9	32.1	31.9	31.5	31.2	30.5	29.9	29.0	28.6	27.8	26.9	26.6	26.5	26.1	26.6	26.9	27.7	28.7	29.3	29.8	30.6	31.2	32.0	32.0	31.8	32.1	32.6	32.7
Min. Temp. (°C)	24.8	24.5	23.3	22.8	21.6	20.2	19.2	18.0	17.0	16.3	15.3	14.9	14.1	13.9	14.1	14.1	14.9	15.8	16.9	17.6	18.8	19.8	20.7	21.8	22.7	23.5	24.0	24.4
Mean Temp. (°C)	28.3	28.3	27.6	27.1	26.4	25.3	24.6	23.5	22.8	22.1	21.1	20.8	20.3	20.0	20.4	20.5	21.3	22.2	23.1	23.7	24.7	25.5	26.3	26.9	27.2	27.8	28.3	28.6
RHmax (%)	96.1	95.8	95.0	94.9	94.7	94.4	94.1	94.5	94.4	94.2	94.4	94.1	93.8	93.1	92.9	91.6	91.0	90.6	90.4	91.0	90.8	91.1	91.3	93.0	93.0	93.3	92.9	93.6
RHMin (%)	68.8	66.7	62.2	62.2	58.1	55.4	52.0	50.8	49.5	50.0	50.3	49.1	48.2	47.1	44.9	42.3	43.6	41.2	43.3	43.9	44.8	46.6	47.4	54.0	58.2	60.1	60.5	61.6
RHmean (%)	82.4	81.2	78.6	78.6	76.4	74.9	73.1	72.6	71.9	72.1	72.3	71.6	71.0	70.1	68.9	67.0	67.3	65.9	66.8	67.5	67.8	68.8	69.4	73.5	75.6	76.7	76.7	77.1
SShr (hrs)	45.8	49.8	53.3	52.3	54.0	55.5	56.5	55.5	54.8	52.8	50.8	51.3	53.3	50.8	53.8	56.5	56.3	57.8	57.5	58.5	60.3	59.3	56.8	57.0	52.8	56.0	56.0	54.8
WD (deg)	203	215	201	196	195	199	203	196	204	196	199	207	200	193	203	203	201	203	208	214	221	215	223	218	207	209	205	205
WS(Km/hr)	6.7	6.9	6.2	6.0	5.9	5.6	6.1	5.9	5.1	5.7	5.8	6.2	6.6	6.9	6.8	7.0	7.1	7.3	7.7	7.9	8.6	8.7	8.9	9.4	9.7	10.0	11.1	10.6
																												
Stage	Spouting & Seedling			vegetative growth					Flowering & fruiting							Harvesting												
<b>Favourable Environment</b>																												
Temperature	Day temperature 20-28° C, Night Temperature 18-23° C (different in Varieties to varieties)																											
Relative Humidity	50-80%																											
Soil Temperature	22-25° C																											
Sunshine Hour	6 to 8 hr																											
<b>Favorable environmental conditions for insects and diseases</b>																												
Fruit fly	Temperature: 25-30° C, RH: 60-91%																											
Aphid	Temperature: 22-30° C, RH:60-85%																											
Pumpkin Beetle	Temperature: 25-32° C, RH: 65-80%																											
Powdery Mildew	Temperature: 22-27° C, RH: Lower RH during day with higher RH during night																											
Downy Mildew	Temperature: 25-32° C, RH: 75-95%																											
Wilting	Temperature: 22-27° C (Atmosphere), >24° C (Soil) RH: 70-80% (Soil)																											
Damping Off	Temperature: 25-27° C, RH:70-80% (soil)																											
Anthraco	Temperature: 25-32° C, RH: High (89-85%), Higher infestation with continuous rainfall																											
<b>Weather warning</b>																												
Rainfall (mm)	20-30 mm (Creates water logging)																											
Cloudy weather	Cloudy																											
Drought	Drought due to excessive dry and warm weather																											
Duration of staying wet	3 to 7 days																											
Hailstorm	Early rain with hailstorm																											
Windspeed (Km/hr.)	≥ 40 Km/hr																											
Temperature (°C)	>32° C																											

**Crop Weather Calendar of Kharif Bottle gourd: Chattogram Region (Districts: Chattogram, Lakshmipur, Coxsbazar, Noakhali and Feni) Bangladesh**

Region: Chattogram	kharif Bottle gourd													Duration: 110-120 days			
Months	April				May				June					July			
Std.Week/Normal	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Rainfall (mm)	21.3	27.0	34.3	36.0	62.7	61.3	70.3	88.7	88.0	119.3	161.0	180.7	197.3	201.7	156.0	189.0	173.3
Max. Temp. (°C)	32.1	32.6	32.7	32.9	32.8	32.9	32.8	32.5	32.3	32.1	31.5	31.3	30.9	30.7	31.1	30.7	30.9
Min. Temp. (°C)	23.5	24.0	24.4	24.5	24.5	24.8	25.2	25.2	25.6	25.6	25.4	25.4	25.2	25.4	25.3	25.2	25.3
Mean Temp. (°C)	27.8	28.3	28.6	28.7	28.7	28.9	29.0	28.9	29.0	28.8	28.5	28.3	28.1	28.0	28.2	27.9	28.1
RHmax (%)	93.3	92.9	92.6	92.8	92.9	93.3	93.5	93.9	94.0	94.9	95.3	95.1	95.9	96.0	95.7	96.1	95.8
RHMin (%)	60.1	60.5	61.6	62.0	62.3	64.1	66.1	68.9	70.2	71.9	74.8	75.3	77.3	77.7	76.4	77.6	76.3
RHmean (%)	76.7	76.7	77.1	77.4	77.6	78.7	79.8	81.4	82.1	83.4	85.1	85.2	86.6	86.9	86.0	86.9	86.1
SShr (hrs)	56.0	56.0	54.8	55.3	52.8	55.0	48.0	42.8	40.3	36.8	28.0	28.0	25.3	24.0	29.0	25.5	30.0
WD (deg)	209	205	205	202	199	203	199	186	185	182	177	174	173	173	173	174	174
WS(Km/hr)	10.0	11.1	10.6	10.6	10.1	10.0	10.1	10.0	10.2	9.8	10.5	11.0	10.9	10.7	10.8	10.9	10.3
																	
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<b>Favourable Environment</b>																	
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Wilting	Temperature: 22-27° C (Atmosphere), >24° C (Soil) RH: 70-80% (Soil)																
Damping off	Temperature: 25-27° C, RH:70-80% (soil)																
Anthraco nose	Temperature: 25-32° C, RH: High (89-85%), Higher infestation with continuous rainfall 15																
<b>Weather Warning</b>																	
Rainfall (mm)	15 to 20 mm								40 mm or more								
Cloudy weather	Cloudy condition																
Drought	Drought due to excessive dry and warm weather																
Duration of staying wet	3 to 7 days																
Hailstorm	Early rain with hailstorms																
Windspeed	≥ 40 Km/hr																
Temperature	35-37° C																