









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

Region: Bogra	Rabi Bottle gourd								Life cycle of crop, 140-150												
Months	September				October				November				December				January				
Std.Week	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4
Rainfall (mm)	53.0	66.5	68.0	53.0	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
Max. Temp. (°C)	31.8	32.0	32.0	32.0	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
Min. Temp. (°C)	25.7	25.6	25.6	25.6	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
Mean Temp. (°C)	28.8	28.8	28.8	28.8	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
RHmax (%)	95.2	95.5	95.4	95.6	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
RHMin (%)	73.5	73.1	72.2	71.1	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
RHmean (%)	84.3	84.3	83.8	83.3	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
SShr (hrs)	32.0	33.0	33.5	35.0	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
WD (deg)	186	191	197	201	203	214	201	187	202	183	184	190	195	206	192	211	213	205	209	218	212
WS(Km/hr)	5.3	5.7	4.7	4.7	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
																					
Stages	Germination and Seedling Planting				Vegetative Growth				Flowering & Fruiting				Harvesting								
Favorable environment																					
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																				
Favorable conditions for insects and diseases																					
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)																				
Anthracoese	Temperature: 25-32°C,RH: High (89-85%), Higher infestation with continuous rainfall																				
Weather warning																					
Rainfall (mm)	30 to 40 mm										15 to 20 mm										
Cloudy weather	Cloudy condition																				
Drought	Drought due to excessive dry and warm weather																				
Duration of staying wet	2 to 5 days																				
Hailstorm	Late season rainfall with hailstorms																				
Windspread(Km/hr.)	≥40 Km/hr																				
Temperature (°C)	>32° C																				

Crop Weather Calendar of Kharif Bottle gourd: Cumilla Region (Districts: Cumilla, Chandpur, B.Barua) Bangladesh

Region: Bogra	Kharif Bottle gourd																	Life cycle of crop, 140-150					
Months	March				April				May				June					July					
Std.Week	10	11	12	13	14	15	16	17	18	19	20		21	22	23	24		25	26	27	28	29	30
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
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
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
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
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
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
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
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
WD (deg)	216	211	199	191	194	187	185	179	180	192	183		192	181	186	177		175	174	179	174	174	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
																							
Stages	Germination and Seedling Planting				Vegetative Growth								Flowering & Fruiting				Harvesting						
Favorable environment																							
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	8 to 10hr																						
Favorable conditions for insects and diseases																							
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%																						
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Damping off	Temperature: 25-27°C,RH:70-80% (soil)																						
Anthracoise	Temperature: 25-32°C,RH: High (89-85%), Higher infestation with continuous rainfall																						
Weather warning																							
Rainfall (mm)	Early rainfall (10-15 mm)										≥40 mm												
Cloudy weather											মেঘাচ্ছন্ন অবস্থা												
Drought	Drought due to excessive dry and warm weather																						
Duration of staying wet	2 to 5 days																						
Hailstorm	Early rainfall with hailstorms																						
Windspread(Km/hr.)	≥40 Km/hr																						
Temperature (°C)	35 to 37° C																						