









Crop Weather Calendar of Rabi Bottlegourd: Bogra Region (Districts: Bogra, Pabna, Sirajgonj, Joypurhat) Bangladesh

Region: Bogra	Rabi Bottle gourd																Life cycle of crop, 140-150							
Months	October				November				December				January				February							
Std.Week	40	41	42	43	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8			
Rainfall (mm)	51.0	42.0	25.0	18.0	5.0	5.0	0.0	0.0	3.0	0.0	3.0	0.0	4.0	0.0	2.0	2.0	1.0	1.0	1.0	4.0	3.0			
Max. Temp. (°C)	32.1	32.3	32.0	31.6	31.0	30.7	30.1	29.7	28.9	27.7	26.3	25.0	25.7	24.0	24.0	24.3	25.4	25.9	26.9	27.7	28.6			
Min. Temp. (°C)	25.0	24.0	23.4	21.7	21.0	19.9	18.3	17.3	15.7	15.0	14.1	12.0	13.4	12.0	11.4	11.4	12.0	12.9	13.6	14.6	15.4			
Mean Temp. (°C)	28.6	28.2	27.7	26.7	26.0	25.3	24.2	23.5	22.3	21.4	20.2	18.7	19.6	18.1	17.7	17.9	18.7	19.4	20.3	21.2	22.0			
RHmax (%)	96.0	96.0	95.7	95.1	94.3	94.6	94.1	93.9	93.9	93.7	94.6	94.3	94.6	94.1	94.3	94.3	93.9	93.1	92.1	91.4	90.4			
RHMin (%)	68.7	66.0	62.1	57.9	55.6	52.4	49.9	48.3	47.0	48.1	50.6	50.6	50.0	50.9	49.0	47.7	46.0	44.9	41.4	40.3	39.1			
RHmean (%)	82.4	81.0	78.9	76.5	75.0	73.5	72.0	71.1	70.5	70.9	72.6	72.5	72.3	72.5	71.7	71.0	70.0	69.0	66.8	65.9	64.8			
SShr (hrs)	44.0	48.0	54.0	57.0	52.0	55.0	55.0	56	56	54	48	49.0	46.0	44.0	44.0	46.0	50.0	50.0	52.0	53.0	56.0			
WD (deg)	170	184	199	198	186	200	202	205	217	222	232	249	248	258	247	239	252	249	233	234	229			
WS(Km/hr)	5.0	5.0	5.0	4.4	4.4	3.7	3.7	3.7	3.7	3.7	3.9	3.7	3.7	4.3	5.4	4.8	5.0	5.4	5.6	5.6	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	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 Bottlegourd: Bogra Region (Districts: Bogra, Pabna, Sirajgonj, Joypurhat) Bangladesh

Region: Bogra	Kharif Bottlegourd												Life cycle of crop, 110-120					
Months	March				April				May				June					
Std.Week	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	
Rainfall (mm)	2.0	4.0	3.0	8.0	8.0	12.0	26.0	28.0	37.0	42.0	45.0	58.0	59.0	74.0	70.0	92.0	76.0	
Max. Temp. (°C)	30.9	31.9	32.9	32.9	33.9	34.3	34.0	33.6	33.1	33.6	33.4	33.3	33.9	33.4	32.7	32.3	32.3	
Min. Temp. (°C)	17.4	18.3	20.0	21.1	22.3	23.0	23.0	23.1	23.3	23.9	24.3	24.6	25.0	25.9	26.0	26.1	26.1	
Mean Temp. (°C)	24.2	25.1	26.5	27.0	28.1	28.7	28.5	28.4	28.2	28.8	28.9	29.0	29.5	29.7	29.4	29.2	29.2	
RHmax (%)	89.1	86.4	86.3	87.7	88.0	88.3	90.6	90.9	92.4	92.4	92.7	93.0	93.7	94.1	95.1	95.1	95.6	
RHMin (%)	36.9	37.1	39.1	45.3	44.4	45.9	50.7	54.9	57.3	58.7	60.0	63.4	64.6	66.7	70.4	72.4	73.9	
RHmean (%)	63.0	61.8	62.7	66.5	66.2	67.1	70.7	72.9	74.9	75.6	76.4	78.2	79.2	80.4	82.8	83.8	84.8	
SShr (hrs)	59.0	61.0	58.0	56.0	56.0	56.0	55.0	52.0	48.0	50.0	49.0	46.0	44.0	39.0	33.0	28.0	26.0	
WD (deg)	230	225	205	176	173	164	149	134	127	126	126	121	135	134	134	134	132	
WS(Km/hr)	6.3	6.7	6.7	6.8	6.7	6.3	6.8	7.4	7.2	7.4	6.7	6.3	6.3	6.3	7.2	6.3	6.7	
																		
Stages	Germination and Seedling Planting			Vegetative Growth						Flowering & Fruiting				Harvesting				
Favorable environment	Day temperature 20-28°C, Night Temperature 18-23°C (different in Varieties to varieties)																	
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%																	
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)	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																	