





Crop Weather Calendar of Rabi Onion: Chottogram Region (Districts: Chottogram, Cox's Bazar, Noakhali, Feni, Laxmipur) Bangladesh

Chottogram Region	Rabi Onion												Life span 100-120 day				
Months	December				January				February				March				
Std.Week/Normal	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13
Rainfall (mm)	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
Max. Temp. (°C)	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
Min. Temp. (°C)	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
Mean Temp. (°C)	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
RHmax (%)	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
RHMin (%)	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
RHmean (%)	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
SShr (hrs)	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
WD (deg)	204	196	199	207	200	193	203	203	201	203	208	214	221	215	223	218	207
WS(Km/hr)	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
																	
Stage	Seedling raising & Transplanting				vegetative growth				Flowering & fruiting				Harvesting				
<b>Favorable environment</b>																	
Temperature	10°C to 30°C				The optimum temperature for vegetative phase is 13- 24°C				The optimum temperature for bulb development is 15-25°C				Dry and clear weather is more suitable				
Relative Humidity	Requires about 70% relative humidity for good growth																
Soil Temperature	A wide range of soil temperatures from 20°C to 35 °C, with the optimum at 24°C																
Sunshine Hour	9 to 10 hours				9 to 10 hours				10 to 12 hours								
<b>Favorable environmental conditions for insects and diseases</b>																	
Thrips	Hot and dry weather increases Trips population; Heavy rainfall reduces population; RH:47.6% to 78.62%																
Common cut worm	Favored by low temperature and high relative humidity; The upper development threshold temperature for all stages is 37 °C; RH: 50% to 90%																
Purple blotch	Warm temperature (21°C to 30 °C); High humidity (80% to 90%); Moderate to heavy frequent rainfall and heavy dew during growing stage causes prolonged leaf wetness (12 hours or more) favored disease development.																
Basal bulb rot	Atmospheric temperature: 25°C to 32°C; Soil temperature: 25°C to 28 °C along with high soil moisture; relative humidity above 70% and Dry atmospheric conditions																
<b>Weather warning</b>																	
Rainfall (mm)	Heavy-rainfall events in short spells result in surface water stagnation (5 to 10 mm per day)																
Cloudy weather	Cloudy weather																
Drought	7 to 10 days																
Duration of stay wet (day)	3 to 5 days																
Hailstorms	Hailstorms with seasonal rainfall																
Wind speed (Km/hr.)	≥ 16 km/hr																
Temperature (°C)	Above 35°C																