





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

Cumilla Region	Rabi Onion								Life span: 100-110 days												
Months	November				December				January				February				March				
Std.Week	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13
Rainfall (mm)	5.0	5.0	0.0	4.0	1.0	3.0	0.0	2.0	0.0	3.0	1.0	0.0	3.0	3.0	6.0	7.5	4.5	7.0	9.0	19.0	27.0
Max. Temp. (°C)	30.3	30.0	28.9	28.3	27.6	26.3	25.4	25.0	24.4	24.0	24.0	25.1	16.2	27.3	28.1	29.1	29.8	30.9	32.0	32.2	32.5
Min. Temp. (°C)	19.7	18.3	17.0	15.4	15.0	14.0	13.3	12.4	12.0	11.6	11.9	12.0	14.2	14.5	16.2	16.7	18.1	19.2	19.9	21.5	22.0
Mean Temp. (°C)	25.0	24.2	23.0	21.9	21.3	20.2	19.4	18.7	18.2	17.8	18.0	18.6	20.2	20.9	22.1	22.9	23.9	25.0	25.9	26.8	27.3
RHmax (%)	95.0	94.6	95.0	95.1	95.3	95.6	95.6	95.3	95.1	94.4	94.4	93.4	94.6	94.4	93.9	94.1	93.9	93.9	93.5	93.7	94.0
RHMin (%)	58.4	55.9	53.0	51.6	52.3	54.1	53.6	53.7	53.6	53.1	51.4	47.0	47.7	45.2	46.8	46.1	46.8	47.4	47.7	52.6	55.9
RHmean (%)	76.7	75.3	74.0	73.4	73.8	74.9	74.9	74.5	74.4	73.8	72.9	70.2	71.1	69.8	70.3	70.1	70.3	70.6	70.6	73.1	74.9
SShr (hrs)	53.0	52.0	53.0	50.0	49.0	43.0	40.0	42.0	41.0	39.0	41.0	45.0	47.0	50.0	49.5	50.5	52.5	52.5	52.5	51.0	48.5
WD (deg)	181	186	186	193	191	206	199	221	230	236	216	238	203	214	206	214	215	216	211	199	191
WS(Km/hr)	3.9	3.7	3.7	3.7	3.0	3.5	3.7	3.7	3.7	3.7	3.7	3.7	4.6	4.6	4.6	4.6	4.6	4.8	5.5	5.6	6.8
																					
Stages	Germination and Seedling Planting				Vegetative Growth				Bulb formation				Harvesting								
Favorable environment																					
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												10 to 12 hours								
Favorable environmental conditions for insects and diseases																					
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																				
Weather warning																					
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												2 to 3 days								
Hailstorms	Hailstorms with seasonal rainfall																				
Wind speed (Km/hr.)									≥ 16 km/hr												
Temperature (°C)									Above 35°C												