





Crop Weather Calendar of Rabi Onion: Rangpur Region (Districts: Rongpur, Lalmonirhat, Nilphamari, Kurigram, Gaibandha) Bangladesh

Rangpur 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)	0.0	2.5	0.0	2.5	1.0	2.5	2.0	1.0	1.0	1.5	3.5	1.5	2.5	1.0	2.5	5.5	18.5
Max. Temp. (°C)	26.7	25.1	24.7	24.1	22.7	22.4	23.2	23.4	24.7	25.9	26.7	27.5	28.5	29.9	30.8	31.6	31.4
Min. Temp. (°C)	14.2	13.5	12.5	11.5	10.9	10.4	10.8	10.8	11.8	12.7	13.7	14.4	15.3	16.1	17.3	18.4	19.5
Mean Temp. (°C)	20.4	19.3	18.6	17.8	16.8	16.4	17.0	17.0	18.3	19.3	20.2	21.0	21.9	23.0	24.0	25.0	25.4
RHmax (%)	95.0	95.4	95.8	96.1	96.0	96.0	95.8	95.7	95.5	94.3	93.7	92.9	91.4	89.8	88.7	88.1	87.7
RHMin (%)	53.5	56.2	56.2	55.2	58.5	57.8	56.2	54.2	51.6	48.0	47.1	45.3	42.8	39.6	40.8	42.5	48.8
RHmean (%)	74.2	75.8	76.0	75.6	77.3	76.9	76.0	74.9	73.5	71.2	70.4	69.1	67.1	64.7	64.7	65.3	68.3
SShr (hrs)	49.5	41.5	42.5	40.0	36.0	36.5	39.5	41.0	44.0	48.5	50.0	51.5	56.5	57.5	57.0	54.0	49.0
WD (deg)	129	158	160	187	199	214	199	210	208	192	201	201	201	207	196	179	152
WS(Km/hr)	6.0	5.7	5.6	5.6	5.7	5.7	5.7	5.6	6.2	6.6	7.5	7.2	7.7	7.8	8.2	8.7	8.7
																	
Stage	Seedling raising & Transplanting				vegetative growth				Flowering & fruiting				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																