





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

Rongpur Region	Rabi Garlic																	Life cycle of crop: 140-150			
Months	November					December				January				February				March			
Std.Week	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12
Rainfall (mm)	4.0	3.0	2.0	0.0	1.0	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
Max. Temp. (°C)	30.0	29.8	29.0	28.3	27.7	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
Min. Temp. (°C)	20.0	19.0	17.5	16.4	15.0	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
Mean Temp. (°C)	25.0	24.4	23.3	22.3	21.3	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
RHmax (%)	94.5	94.4	94.6	94.9	94.9	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
RHMin (%)	58.7	55.9	54.0	50.9	50.6	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
RHmean (%)	76.6	75.1	74.3	72.9	72.7	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
SShr (hrs)	55.5	55.0	52.0	54.0	53.0	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
WD (deg)	115	106	126	134	150	129	158	160	187	199	214	199	210	208	192	201	201	201	207	196	179
WS(Km/hr)	6.6	6.6	6.3	6.4	5.6	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
																					
Stages	Germination and Seedling Planting				Vegetative Growth				Flowering & Fruiting				Harvesting								
Favorable environment																					
Temperature	Suitable growth temperature :13 to 24°C; Relatively high temperature up to 30°C is required for optimum bulb development whereas cool and moist climate condition in the early stage favored vegetative growth.																				
Relative Humidity					Excessive humidity and rainfall are detrimental to both vegetative and bulb formation stage																
Soil Temperature																					
Sunshine Hour	The critical day length for bulbing is 10-12 h for short-day garlic and 13-14 h for long-day garlic.																				
Favorable environmental conditions for insects and diseases																					
Red spider mites					High temperature accelerated the developmental rate and reduced the duration of developmental periods of immature stages.																
Thrips	Hot and dry weather increases Thrips population also associated with lack of rainfall; Heavy rainfall reduces population, RH:47.67 to 78.62																				
Basal rot	The disease generally appears when soil temperature is 25-28 °C along with high soil moisture; high temperature and drought increases the disease incidence; Relative humidity is above 70%.																				
Blight disease	Optimum temperature: 20-31°C; Humidity 85-96%; Cloudy rainy weather in the crop stand.																				
Weather warning																					
Rainfall (mm)	15 mm to 20 mm per day causes high soil moisture																	5 to 10 mm per day			
Cloudy weather					Cloudy weather																
Drought																					
Duration of stay wet (day)	3 to 5 days																	2 to 3 days			
Hailstorms																					
Wind speed (Km/hr.)	Less than 40 km/hr				Less than 40 km/hr																
Temperature (°C)	Above 35°C																				

