





Crop Weather Calendar of Rabi:Gurlic, Faridpur Region (Districts: Faridpur, Madaripur, Sariatpur, Gopalganj, Rajbari) Bangladesh

Faridpur Region	Rabi:Gurlic												Life Span 140-150 day										
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	13	
Rainfall (mm)	11.5	11.0	8.0	3.0	4.5	0.5	3.5	0.5	2.0	0.5	0.5	0.5	1.5	3.5	5.5	5.0	7.5	5.0	6.5	7.0	12.5	18.5	
Max. Temp. (°C)	30.9	30.4	29.7	29.2	28.0	27.5	26.5	25.5	25.1	24.3	24.4	24.8	25.4	26.5	27.4	28.5	29.5	30.7	31.8	32.9	33.8	33.4	
Min. Temp. (°C)	22.0	20.7	19.1	18.2	16.4	15.2	14.7	13.7	12.9	12.2	12.0	12.1	12.1	13.1	13.9	15.5	16.0	17.3	18.5	19.5	21.2	21.8	
Mean Temp. (°C)	26.4	25.5	24.4	23.7	22.2	21.3	20.6	19.6	19.0	18.3	18.2	18.4	18.7	19.8	20.7	22.0	22.7	24.0	25.1	26.2	27.5	27.6	
RHmax (%)	95.2	95.4	95.5	95.8	95.6	95.6	96.1	96.2	96.0	95.7	95.4	95.5	95.2	94.7	94.7	64.1	93.8	93.4	92.7	92.4	92.9	93.2	
RHMin (%)	57.6	55.5	53.2	51.2	49.9	50.5	51.4	51.3	51.0	52.2	50.9	48.9	46.3	46.2	43.3	43.3	41.5	39.5	38.8	38.4	42.1	46.7	
RHmean (%)	76.4	75.4	74.3	73.5	72.7	73.0	73.7	73.7	73.5	73.9	73.1	72.2	70.7	70.4	69.0	68.7	67.7	66.4	65.7	65.4	67.5	69.9	
SShr (hrs)	48.5	51.0	49.5	50.5	51.0	47.0	44.5	40.5	43.0	41.5	39.5	44.5	50.0	49.0	52.0	52.0	53.0	54.5	53.0	54.5	51.5	50.5	
WD (deg)	202	189	202	201	199	201	197	196	183	191	191	210	204	205	203	214	217	222	230	230	216	200	
WS(Km/hr)	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.9	3.1	3.4	3.6	3.3	3.4	3.4	3.1	4.0	4.3	4.5	4.5	4.5	5.5	5.6	
																							
Stages	Germination and Seedling Planting					Vegetative Growth					Bulb formation					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	Early rainfall with hailstorm																						
Wind speed (Km/hr.)	Less than 40 km/hr												Less than 40 km/hr										
Temperature (°C)	Above 35°C																						

