





Crop Weather Calendar of Rabi Garlic: Bogra Region (Districts: Bogra Region (Districts: Bogra, Pabna, Sirajgonj, Joypurhat) Bangladesh

Bogra: 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)	5.0	5.0	0.0	0.0	3.0	0.0	3.0	0.0	4.0	0.0	2.0	2.0	1.0	1.0	1.0	4.0	3.0	5.0	2.0	4.0	3.0
Max. Temp. (°C)	31.0	30.7	30.1	29.7	28.9	27.7	26.3	25.0	25.7	24.0	24.0	24.3	25.4	25.9	26.9	27.7	28.6	29.3	30.9	31.9	32.9
Min. Temp. (°C)	21.0	19.9	18.3	17.3	15.7	15.0	14.1	12.0	13.4	12.0	11.4	11.4	12.0	12.9	13.6	14.6	15.4	16.4	17.4	18.3	20.0
Mean Temp. (°C)	26.0	25.3	24.2	23.5	22.3	21.4	20.2	18.7	19.6	18.1	17.7	17.9	18.7	19.4	20.3	21.2	22.0	22.9	24.2	25.1	26.5
RHmax (%)	94.3	94.6	94.1	93.9	93.9	93.7	94.6	94.3	94.6	94.1	94.3	94.3	93.9	93.1	92.1	91.4	90.4	88.7	89.1	86.4	86.3
RHMin (%)	55.6	52.4	49.9	48.3	47.0	48.1	50.6	50.6	50.0	50.9	49.0	47.7	46.0	44.9	41.4	40.3	39.1	38.0	36.9	37.1	39.1
RHmean (%)	75.0	73.5	72.0	71.1	70.5	70.9	72.6	72.5	72.3	72.5	71.7	71.0	70.0	69.0	66.8	65.9	64.8	63.4	63.0	61.8	62.7
SShr (hrs)	52.0	55.0	55.0	56	56	54	48	49.0	46.0	44.0	44.0	46.0	50.0	50.0	52.0	53.0	56.0	60.0	59.0	61.0	58.0
WD (deg)	186	200	202	205	217	222	232	249	248	258	247	239	252	249	233	234	229	235	230	225	205
WS(Km/hr)	4.4	3.7	3.7	3.7	3.7	3.7	3.9	3.7	3.7	4.3	5.4	4.8	5.0	5.4	5.6	6.7	5.7	6.3	6.7		6.7
Stages																					
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																				