





Crop Weather Calendar of Rabiseason Garlic: Jashore Region (Districts: Jessore, Chuadanga, Meherpur, Jinaidaha, Magura, Kustia) Bangladesh

Region: Jashore	Rabiseason Garlic										Life cycle of crop: 140-150 days												
Months	November					December					January				February				March				
Std.Week/Normal	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	8	9	10	11	12	13	
Rainfall (mm)	9.0	8.0	7.5	1.0	2.0	1.5	4.0	0.0	3.5	0.5	1.5	2.5	3.0	6.5	5.0	4.5	8.0	4.0	2.5	4.5	11.5	12.0	
Max. Temp. (°C)	31.1	31.1	30.3	29.6	28.5	27.7	26.6	25.7	25.2	24.5	24.5	25.1	25.6	26.6	27.8	28.9	30.0	31.0	32.4	33.6	34.7	34.6	
Min. Temp. (°C)	20.7	19.4	18.0	16.7	15.1	14.0	13.4	12.3	11.4	10.9	10.7	11.0	10.8	12.0	13.3	14.7	15.6	16.4	17.7	19.0	20.8	21.8	
Mean Temp. (°C)	25.9	25.3	24.2	23.1	21.8	20.9	20.0	19.0	18.3	17.7	17.6	18.0	18.2	19.3	20.5	21.8	22.8	23.7	25.0	26.3	27.7	28.2	
RHmax (%)	95.9	95.9	95.7	95.7	95.4	95.2	95.8	95.5	95.7	95.4	95.3	95.3	94.9	94.9	94.2	94.0	93.7	93.2	92.5	92.1	92.1	92.4	
RHMin (%)	56.2	52.0	49.8	48.1	46.3	47.2	49.2	49.4	47.9	49.6	47.9	47.0	44.7	44.2	42.2	41.0	39.3	36.5	35.4	34.9	36.7	42.0	
RHmean (%)	76.0	74.0	72.8	71.9	70.8	71.2	72.5	72.5	71.8	72.5	71.6	71.2	69.8	69.5	68.2	67.5	66.5	64.9	63.9	63.9	64.4	67.2	
SShr (hrs)	45.5	48.5	49.5	47.5	48.5	47.5	43.5	42.0	42.0	41.0	42.5	44.5	48.0	48.5	49.5	50.0	54.5	55.0	54.0	55.0	53.0	51.5	
WD (deg)	153	175	177	179	178	184	183	177	174	158	156	188	192	186	191	203	214	219	213	230	212	208	
WS(Km/hr)	2.5	2.3	2.4	2.3	2.4	2.3	2.4	2.5	2.5	3.0	3.0	3.0	3.0	3.2	3.1	3.3	3.7	3.5	3.9	4.1	4.4	4.7	
																							
Stages	Germination and Seedling Planting					Vegetative Growth					Clove/bulb development stage				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												