







Crop Weather Calendar of Maize: Dinajpur Region (Districts: Dinajpur, Thakurgaon and Panchaghar) Bangladesh

| Region: Dinajpur | Maize (Rabi) | | | | | | | | | | | Duration: 112 days | | | | |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------|------|-------------------------------------------------------------------------------------|---------|----------------------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|------------------------|------|------|
| Months | November | | | December | | | | January | | | | February | | | Mar | |
| Std.Week/Normal | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Rainfall (mm) | 0.0 | 0.0 | 0.0 | 0.0 | 3.0 | 0.0 | 4.0 | 2.0 | 2.0 | 3.0 | 2.0 | 1.0 | 2.0 | 3.0 | 1.0 | 1.0 |
| Max. Temp. (°C) | 29.0 | 28.7 | 28.0 | 27.0 | 25.4 | 24.9 | 23.9 | 22.6 | 22.4 | 23.0 | 23.7 | 25.0 | 25.9 | 26.7 | 27.7 | 28.6 |
| Min. Temp. (°C) | 16.9 | 15.6 | 14.0 | 13.3 | 12.9 | 12.0 | 10.9 | 10.7 | 10.3 | 10.0 | 10.6 | 11.1 | 12.1 | 13.6 | 14.1 | 15.0 |
| Mean Temp. (°C) | 23.0 | 22.2 | 21.0 | 20.2 | 19.2 | 18.5 | 17.4 | 16.7 | 16.4 | 16.5 | 17.2 | 18.1 | 19.0 | 20.2 | 20.9 | 21.8 |
| RHmax (%) | 95.9 | 95.3 | 95.6 | 96.1 | 96.4 | 96.3 | 96.6 | 96.7 | 96.3 | 96.4 | 95.9 | 94.7 | 94.0 | 93.4 | 92.0 | 90.6 |
| RHMin (%) | 51.6 | 48.1 | 47.6 | 49.0 | 52.9 | 52.7 | 54.0 | 55.1 | 53.7 | 52.4 | 50.4 | 47.7 | 43.1 | 42.4 | 40.9 | 38.4 |
| RHmean (%) | 73.8 | 71.7 | 71.6 | 72.6 | 74.7 | 74.5 | 75.3 | 75.9 | 75.0 | 74.4 | 73.2 | 71.2 | 68.6 | 67.9 | 66.5 | 64.5 |
| SShr (hrs) | 52.0 | 54.0 | 53.0 | 48.0 | 42.0 | 41.0 | 37.0 | 34.0 | 34.0 | 37.0 | 41.0 | 44.0 | 46.0 | 52.0 | 54.0 | 57.0 |
| WD (deg) | 154 | 164 | 177 | 183 | 193 | 200 | 213 | 225 | 238 | 243 | 227 | 241 | 225 | 230 | 225 | 228 |
| WS(Km/hr) | 3.7 | 3.7 | 3.5 | 2.6 | 3.7 | 3.0 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.9 |
| |  |  |  | | | |  | | | |  |  | | | | |
| | sowing | Germination | Vegetative Growth | | | | Silking & Tasseling | | | | Cob Formation | | | Maturity to Harvesting | | |
| Favorable Weather Conditions | | | | | | | | | | | | | | | | |
| Temperature | At least 10°C for germination | | | | | | | | | | 22-25°C | | | 23-27°C | | |
| Light Intensity | | | ≤200% of normal | | | | | | | | | | | | | |
| Relative Humidity | | | High | | | | | | | | | | | | | |
| Soil Temperature | | | Above 16°C | | | | | | | | | | | | | |
| Normal phase wise water requirement (mm) | 76 | | 120 | | | | 190 | | | | 145 | | | 100 | | |
| Congenial Weather Condition for Pests & Diseases | | | | | | | | | | | | | | | | |
| Fall Army worm | | | A threshold temperature of 10.9°C and 559 day-degrees C is required for development. Sandy-clay or clay-sand soils are suitable for pupation and adult emergence. Emergence in sandy-clay and clay-sand soils was directly proportional to temperature and inversely proportional to humidity. Above 30°C the wings of adults tend to be deformed. Pupae require a threshold temperature of 14.6°C and 138 day-degrees C to complete their development. | | | | | | | | | | | | | |
| Seed Rot | | | A threshold temperature of 10.9°C and 559 day-degrees C is required for development. Sandy-clay or clay-sand soils are suitable for pupation. | | | | | | | | | | | | | |
| Weather Warning | | | | | | | | | | | | | | | | |
| Rain | >50 mm/day | | | | >100 mm/day | | | | >50 mm/day | | | | | | | |
| Duration of wet spell | >25 mm for 3 days | | | | >50 mm for 4 days | | | | 20 mm for 4 days | | | | | | | |
| Cloudy weather | | | | | Cloudy weather | | | | Cloudy weather | | | | | | | |
| High wind | >50 km/hr | | | | >40 km/hr | | | | >30 km/hr | | | | | | | |
| Temperature | Minimum Temperature <10 °C | | | | Minimum Temperature <10°C | | | | Minimum Temperature <10 °C | | | | | | | |