







Crop Weather Calendar of Maize: Cumilla Region (Districts: Cumilla, Chandpur, Bramanbaria) Bangladesh

| Region: Cumilla | Maize (kharif-1) | | | | | | | | | | | Duration: 112 days | | | | | |
|---|---|---|---|------|------|------|------|---|------|------|------|---|----------------------------|-------|---|---------|--|
| Months | April | | May | | | | June | | | | | July | | | August | | |
| Std.Week/Normal | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | |
| Rainfall (mm) | 33.0 | 42.0 | 54.5 | 63.5 | 66.0 | 71.0 | 80.0 | 74.0 | 98.5 | 88.5 | 97.5 | 96.0 | 88.0 | 107.0 | 95.0 | 84.0 | |
| Max. Temp. (°C) | 33.2 | 33.1 | 32.9 | 33.2 | 33.2 | 32.9 | 33.1 | 32.7 | 31.9 | 31.9 | 31.4 | 31.2 | 31.5 | 31.3 | 31.5 | 32.0 | |
| Min. Temp. (°C) | 23.7 | 23.5 | 23.7 | 24.3 | 24.7 | 25.2 | 25.6 | 25.8 | 25.7 | 26.0 | 26.0 | 26.0 | 26.0 | 25.7 | 26.0 | 25.9 | |
| Mean Temp. (°C) | 28.4 | 28.3 | 28.3 | 28.7 | 28.9 | 29.0 | 29.4 | 29.3 | 28.8 | 28.9 | 28.7 | 28.6 | 28.7 | 28.5 | 28.7 | 28.9 | |
| RHmax (%) | 93.9 | 94.1 | 94.2 | 94.0 | 94.5 | 94.3 | 94.6 | 95.0 | 95.0 | 95.2 | 95.2 | 95.4 | 95.0 | 95.5 | 95.3 | 94.9 | |
| RHMin (%) | 60.9 | 61.7 | 63.0 | 63.5 | 64.8 | 66.7 | 69.0 | 70.9 | 73.9 | 75.1 | 76.8 | 76.8 | 75.9 | 76.6 | 75.2 | 74.2 | |
| RHmean (%) | 77.4 | 77.9 | 78.6 | 78.7 | 79.6 | 80.5 | 81.8 | 82.9 | 84.4 | 85.1 | 86.0 | 86.1 | 85.4 | 86.0 | 85.2 | 84.5 | |
| SShr (hrs) | 52.5 | 51.0 | 47.5 | 47.5 | 46.5 | 41.0 | 38.0 | 36.0 | 26.5 | 29.0 | 26.0 | 23.5 | 30.0 | 26.5 | 31.0 | 30.0 | |
| WD (deg) | 185 | 179 | 180 | 192 | 183 | 192 | 181 | 186 | 177 | 175 | 174 | 179 | 174 | 174 | 179 | 178 | |
| WS(Km/hr) | 7.7 | 7.5 | 7.4 | 7.7 | 7.5 | 6.8 | 7.1 | 6.5 | 7.3 | 7.0 | 7.4 | 7.3 | 7.0 | 7.5 | 6.7 | 6.7 | |
| |  |  |  | | | | |  | | | |  | | |  | | |
| | 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 | | | | |