







**Crop Weather Calendar of Maize:BarishalRegion** (Districts: Barishal, Jhalakati, Patuakhali, Pirujpur, Barguna, Bhola) **Bangladesh**

| Region:<br>Barishal | Maize (Rabi)   |  |   |      |         |      |      |      |  |  |      |      | Duration: 112 days |  |                        |      |
|---------------------|--|--|---|------|---------|------|------|------|--|--|------|------|--------------------|--|------------------------|------|
| Months              | December   |  |   |      | January |      |      |      | February   |  |      |      | March              |  |                        |      |
| Std.Week/Normal     | 49   | 50   | 51  | 52   | 1       | 2    | 3    | 4    | 5  | 6  | 7    | 8    | 9                  | 10   | 11                     | 12   |
| Rainfall (mm)       | 1.7  | 4.0  | 1.3   | 0.7  | 1.3     | 1.0  | 1.0  | 1.7  | 2.7  | 3.7  | 5.0  | 8.0  | 5.7                | 5.3  | 6.0                    | 14.3 |
| Max. Temp. (°C)     | 27.8   | 27.0   | 26.2  | 25.7 | 25.1    | 25.2 | 25.8 | 26.2 | 27.0   | 27.8   | 28.9 | 29.7 | 30.7               | 31.7   | 32.7                   | 33.0 |
| Min. Temp. (°C)     | 15.6   | 14.9   | 14.0  | 13.1 | 12.6    | 12.5 | 12.7 | 12.5 | 14.0   | 14.6   | 16.2 | 16.9 | 18.3               | 19.5   | 20.5                   | 22.1 |
| Mean Temp. (°C)     | 21.7   | 21.0   | 20.1  | 19.4 | 18.9    | 18.9 | 19.2 | 19.4 | 20.5   | 21.2   | 22.5 | 23.3 | 24.5               | 25.6   | 26.6                   | 27.6 |
| RHmax (%)           | 98.0   | 97.9   | 98.2  | 98.2 | 98.0    | 97.8 | 97.6 | 97.6 | 97.3   | 97.1   | 97.0 | 97.0 | 96.7               | 97.1   | 96.7                   | 96.5 |
| RHMin (%)           | 50.6   | 50.9   | 50.7  | 50.3 | 50.1    | 49.3 | 48.5 | 45.2 | 46.2   | 44.8   | 46.2 | 45.1 | 44.9               | 45.2   | 45.3                   | 50.7 |
| RHmean (%)          | 74.3   | 74.4   | 74.4  | 74.3 | 74.1    | 73.6 | 73.1 | 71.4 | 71.7   | 70.9   | 71.6 | 71.0 | 70.8               | 71.2   | 71.0                   | 73.6 |
| SShr (hrs)          | 48.7   | 46.3   | 44.3  | 43.7 | 46.7    | 44.0 | 47.3 | 52.7 | 50.3   | 52.3   | 51.7 | 52.0 | 53.7               | 54.0   | 54.3                   | 52.3 |
| WD (deg)            | 225  | 223  | 212   | 212  | 209     | 211  | 204  | 216  | 217  | 211  | 214  | 211  | 214                | 226  | 218                    | 210  |
| WS(Km/hr)           | 3.1  | 3.4  | 3.3   | 3.9  | 4.5     | 4.4  | 4.5  | 4.3  | 5.0  | 4.6  | 4.9  | 4.9  | 5.1                | 5.2  | 5.4                    | 6.3  |
|                     |  |  |  |      |         |      |      |      |  |  |      |      |                    |  |                        |      |
|                     | sowing   | Germination  | Vegetative Growth   |      |         |      |      |      | Silking & Tasseling  |  |      |      | Cob Formation      |  | Maturity to Harvesting |      |

| Favorable Weather Conditions             |  |                         |     |                      |                      |
|--|--|-------------------------|-----|----------------------|----------------------|
| Temperature                              | At least 10 <sup>o</sup> C for germination |                         |     | 22-25 <sup>o</sup> C | 23-27 <sup>o</sup> C |
| Light Intensity                          |  | ≤200% of normal         |     |                      |                      |
| Relative Humidity                        |  | High                    |     |                      |                      |
| Soil Temperature                         |  | Above 16 <sup>o</sup> 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 <sup>o</sup> 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 <sup>o</sup> C the wings of adults tend to be deformed. Pupae require a threshold temperature of 14.6 <sup>o</sup> C and 138 day-degrees C to complete their development. |  |  |  |  |
| Seed Rot   | A threshold temperature of 10.9 <sup>o</sup> 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 <sup>o</sup> C | Minimum Temperature <10 <sup>o</sup> C | Minimum Temperature <10 <sup>o</sup> C |  |  |