



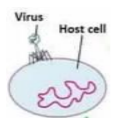

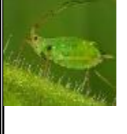






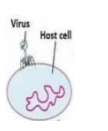











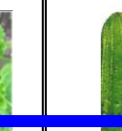





Disease Weather Calendar of *Rabi* season Cucumber (Cucumber Mosaic virus disease): Barisal Region (Districts: Barisal, Patuakhali, Jalokhati, Borguna & Bhola) Bangladesh

| Region: Barisal | | <i>Rabi</i> season Cucumber: Bacterial Angular leaf spot disease | | | | | | | | | | Life span: 100-120 days | | | | | | | | | | | |
|-----------------------|------------------|--|--|--|---|------|---|---|------|------|------|-------------------------|---|------|------------|---|------|------|--|--|--|--|--|
| Weather warning | Months | November | | | | | December | | | | | January | | | February | | | | | | | | |
| | Max. Temp. (°C) | 32 °C | | | | | | | | | | | | | | | | | | | | | |
| | Min. Temp. (°C) | 26 °C | | | | | | | | | | | | | | | | | | | | | |
| | RH Max (%) | Disease development favored by certain rising relative humidity | | | | | | | | | | | | | | | | | | | | | |
| | RH Min (%) | Disease development correlated with relative humidity as the humidity decreased the disease incident decreased | | | | | | | | | | | | | | | | | | | | | |
| | Rainfall (mm) | Disease development favored by rainfall | | | | | | | | | | | | | | | | | | | | | |
| Weekly normal weather | Std. Week/Normal | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | | |
| | Rainfall (mm) | 19.3 | 100.0 | 9.0 | 6.0 | 7.0 | 1.7 | 4.0 | 1.3 | 0.7 | 1.3 | 1.0 | 1.0 | 1.7 | 2.7 | 3.7 | 5.0 | 8.0 | | | | | |
| | Max. Temp. (°C) | 31.0 | 31.2 | 29.6 | 29.3 | 28.3 | 27.8 | 27.0 | 26.2 | 25.7 | 25.1 | 25.2 | 25.8 | 26.2 | 27.0 | 27.8 | 28.9 | 29.7 | | | | | |
| | Min. Temp. (°C) | 22.1 | 26.0 | 19.6 | 18.4 | 16.7 | 15.6 | 14.9 | 14.0 | 13.1 | 12.6 | 12.5 | 12.7 | 12.5 | 14.0 | 14.6 | 16.2 | 16.9 | | | | | |
| | RH Max (%) | 97.8 | 97.4 | 97.8 | 97.8 | 97.8 | 98.0 | 97.9 | 98.2 | 98.2 | 98.0 | 97.8 | 97.6 | 97.6 | 97.3 | 97.1 | 97.0 | 97.0 | | | | | |
| | RH Min (%) | 63.2 | 78.9 | 56.6 | 53.7 | 51.8 | 50.6 | 50.9 | 50.7 | 50.3 | 50.1 | 49.3 | 48.5 | 45.2 | 46.2 | 44.8 | 46.2 | 45.1 | | | | | |
| | SS hr (hrs) | 47.0 | 26.0 | 49.0 | 50.0 | 51.3 | 48.7 | 46.3 | 44.3 | 43.7 | 46.7 | 44.0 | 47.3 | 52.7 | 50.3 | 52.3 | 51.7 | 52.0 | | | | | |
| | Growth stages | |  | | | | |  | | | | |  | | |  | | | | | | | |
| | | Spouting & Seedling | | | | | vegetative growth | | | | | Flowering & fruiting | | | Harvesting | | | | | | | | |
| Disease life Cycle | |  |  |  |  | |  | | | | | | | | | | | | | | | | |
| | | Virus attachment on host cell | Penetration, Replication & release | Transmission | Disease development | | Virus attachment on host cell to Disease development process continued up to maturity stage | | | | | | | | | | | | | | | | |

Disease Weather Calendar of *Kharif* season Cucumber (Cucumber Mosaic virus disease): Barisal Region (Districts: Barisal, Patuakhali, Jhalokhati, Borguna & Bhola) Bangladesh

| Region: Barisal | | Kharif season Cucumber: Cucumber Mosaic virus disease | | | | | | | | | | | | | | Life span: 130-140 days | | | | | | |
|-----------------------|------------------|--|--|--|---|---|--|--|--|--|--|--|--|--|--|--|--|-------|-------|-------|------|--|
| Weather warning | Months | March | | | | | | | April | | | | | May | | | June | | July | | | |
| | Max. Temp. (°C) | 32 °C | | | | | | | | | | | | | | | | | | | | |
| | Min. Temp. (°C) | 26 °C | | | | | | | | | | | | | | | | | | | | |
| | RH Max (%) | Disease development favored by certain rising relative humidity | | | | | | | | | | | | | | | | | | | | |
| | RH Min (%) | Disease development correlated with relative humidity as the humidity decreased the disease incident decreased | | | | | | | | | | | | | | | | | | | | |
| | Rainfall (mm) | Disease development favored by rainfall | | | | | | | | | | | | | | | | | | | | |
| Weekly normal weather | Std. Week/Normal | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | |
| | Rainfall (mm) | 5.7 | 5.3 | 6.0 | 14.3 | 18.0 | 18.0 | 21.7 | 25.0 | 34.7 | 40.7 | 52.7 | 49.0 | 69.3 | 66.7 | 85.3 | 105.3 | 129.7 | 126.3 | 129.0 | 91.7 | |
| | Max. Temp. (°C) | 30.7 | 31.7 | 32.7 | 33.0 | 32.9 | 33.3 | 33.7 | 33.5 | 33.5 | 33.6 | 33.4 | 33.4 | 33.2 | 33.3 | 32.8 | 31.9 | 31.3 | 31.0 | 31.0 | 31.1 | |
| | Min. Temp. (°C) | 18.3 | 19.5 | 20.5 | 22.1 | 22.8 | 23.7 | 24.0 | 24.6 | 24.4 | 24.4 | 25.1 | 25.2 | 25.7 | 26.0 | 26.1 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 | |
| | RH max (%) | 96.7 | 97.1 | 96.7 | 96.5 | 96.5 | 96.6 | 96.4 | 96.0 | 96.0 | 96.1 | 96.2 | 96.1 | 96.2 | 96.5 | 96.4 | 96.6 | 97.0 | 97.3 | 97.4 | 97.4 | |
| | RH Min (%) | 44.9 | 45.2 | 45.3 | 50.7 | 54.4 | 58.0 | 59.8 | 61.9 | 62.5 | 64.2 | 65.9 | 67.5 | 69.6 | 70.9 | 73.2 | 76.9 | 79.2 | 80.6 | 80.7 | 79.4 | |
| | SS hr (hrs) | 53.7 | 54.0 | 54.3 | 52.3 | 50.7 | 53.0 | 51.3 | 54.7 | 51.7 | 49.0 | 48.0 | 46.0 | 37.3 | 37.3 | 30.7 | 23.0 | 21.3 | 20.3 | 20.3 | 23.3 | |
| Growth stages | |  | | | | | | |  | | | | |  | | |  | | | | | |
| | | Spouting & Seedling | | | | | | | vegetative growth | | | | | Flowering & fruiting | | | Harvesting | | | | | |
| Disease life Cycle | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | | | | |
| | | Virus attachment on host cell | Penetration, Replication & release | Transmission | Disease development | Virus attachment on host cell to Disease development process continued up to maturity stage | | | | | | | | | | | | | | | | |