



Crop disease weather calendar of the Rabi season Garlic(Basal rot disease): Cumilla Region (Districts: Cumilla, Chandpur, B.Baria) Bangladesh

| Region: Cumilla       |  | Rabi season Garlic: Basal rot diseases   |               |      |                   |          |             |      |                      |          |   |      |            |         |      |      |      | Life cycle of crop: 140-150 days |      |      |      |      |  |
|-----------------------|--|--|---------------|------|-------------------|----------|-------------|------|----------------------|----------|---|------|------------|---------|------|------|------|----------------------------------|------|------|------|------|--|
| Weather warning       | Months   | October  |               |      |                   | November |             |      |                      | December |   |      |            | January |      |      |      | February                         |      |      |      |      |  |
|                       | Max. Temp. (oC)  | Atmospheric temperature 30°C; Max. soil temperature: 28°C along with high soil moisture; high temperature and drought increases the disease incidence. |               |      |                   |          |             |      |                      |          |   |      |            |         |      |      |      |                                  |      |      |      |      |  |
|                       | Min. Temp. (oC)  | Atmospheric temperature 25°C; Minimum soil temperature: 25 °C along with high soil moisture  |               |      |                   |          |             |      |                      |          |   |      |            |         |      |      |      |                                  |      |      |      |      |  |
|                       | RH Max (%)   | Relative humidity is above 70%.  |               |      |                   |          |             |      |                      |          |   |      |            |         |      |      |      |                                  |      |      |      |      |  |
|                       | RH Min (%)   |  |               |      |                   |          |             |      |                      |          |   |      |            |         |      |      |      |                                  |      |      |      |      |  |
|                       | Rainfall (mm)  |  |               |      |                   |          |             |      |                      |          |   |      |            |         |      |      |      |                                  |      |      |      |      |  |
| Weekly normal weather | Std.Week/Normal  | 40   | 41            | 42   | 43                | 44       | 45          | 46   | 47                   | 48       | 49  | 50   | 51         | 52      | 1    | 2    | 3    | 4                                | 5    | 6    | 7    | 8    |  |
|                       | Rainfall (mm)  | 51.0   | 46.5          | 30.5 | 16.0              | 11.5     | 18.0        | 8.5  | 4.0                  | 2.5      | 0.0   | 4.5  | 1.0        | 1.5     | 0.0  | 0.0  | 0.0  | 1.5                              | 3.0  | 3.0  | 6.0  | 7.5  |  |
|                       | Max. Temp. (oC)  | 32.3   | 31.9          | 31.8 | 31.2              | 31.0     | 30.5        | 29.8 | 29.0                 | 28.2     | 27.7  | 26.5 | 25.8       | 25.4    | 24.7 | 24.5 | 25.0 | 25.4                             | 16.2 | 27.3 | 28.1 | 29.1 |  |
|                       | Min. Temp. (oC)  | 25.4   | 24.7          | 24.3 | 22.8              | 21.8     | 21.0        | 19.3 | 18.1                 | 16.9     | 15.8  | 15.0 | 14.2       | 13.4    | 13.0 | 12.7 | 12.7 | 12.6                             | 14.2 | 14.5 | 16.2 | 16.7 |  |
|                       | RHmax (%)  | 95.6   | 95.7          | 95.5 | 95.2              | 95.3     | 95.6        | 95.3 | 95.4                 | 95.8     | 95.8  | 96.2 | 96.0       | 96.0    | 96.0 | 95.5 | 95.3 | 94.4                             | 94.6 | 94.4 | 93.9 | 94.1 |  |
|                       | RHMin (%)  | 70.2   | 68.1          | 65.8 | 61.9              | 60.6     | 58.2        | 54.8 | 52.6                 | 52.2     | 50.6  | 51.9 | 52.1       | 51.3    | 51.8 | 51.2 | 49.1 | 46.4                             | 47.7 | 45.2 | 46.8 | 46.1 |  |
|                       | SShr (hrs)   | 39.0   | 43.0          | 44.5 | 50.5              | 47.0     | 49.5        | 50.0 | 50.5                 | 48.5     | 47.5  | 42.5 | 40.5       | 40.0    | 40.0 | 37.0 | 43.5 | 47.0                             | 47.0 | 50.0 | 49.5 | 50.5 |  |
| Stage                 |    |  |               |      |                   |          |             |      |                      |          |   |      |            |         |      |      |      |                                  |      |      |      |      |  |
|                       | Germination and Seedling Planting  |  |               |      | Vegetative Growth |          |             |      | Flowering & Fruiting |          |   |      | Harvesting |         |      |      |      |                                  |      |      |      |      |  |
| Disease Life Cycle    |  |  |               |      |                   |          |             |      |                      |          |   |      |            |         |      |      |      |                                  |      |      |      |      |  |
|                       |  |  | Spore landing |      | Spore germination |          | Penetration |      | Disease development  |          | Spore landing on host surface to Disease development process continued over the crop growing period |      |            |         |      |      |      |                                  |      |      |      |      |  |