





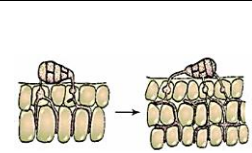





Crop disease weather calendar of the Rabi season Onion (Purple blotch disease): Jessore Region (Districts: Jessore, Chuadanga, Meherpur, Jinaidaha, Magura, Kustia)  
Bangladesh

|                       |   |  |   |      |  |   |   |      |  |       |      |      |  |      |      |                                  |      |      |      |
|-----------------------|---|--|---|------|--|---|---|------|--|-------|------|------|--|------|------|----------------------------------|------|------|------|
| Region: Jessore       |   | <b>Rabi season Onion: Purple blotch disease</b>  |   |      |  |   |   |      |  |       |      |      |  |      |      | Life cycle of crop: 140-150 days |      |      |      |
| Weather warning       | Months  | February   |   |      |  | March   |   |      |  | April |      |      |  | May  |      |                                  |      |      |      |
|                       | Max. Temp. (°C)   | Warm temperature, 30 °C  |   |      |  |   |   |      |  |       |      |      |  |      |      |                                  |      |      |      |
|                       | Min. Temp. (°C)   | 21 °C  |   |      |  |   |   |      |  |       |      |      |  |      |      |                                  |      |      |      |
|                       | RH Max (%)  | Humidity 90% or above (wet and humid condition)  |   |      |  |   |   |      |  |       |      |      |  |      |      |                                  |      |      |      |
|                       | RH Min (%)  | 80%  |   |      |  |   |   |      |  |       |      |      |  |      |      |                                  |      |      |      |
|                       | Rainfall (mm)   | Moderate to heavy frequent rainfall and heavy dew during growing stage causes prolonged leaf wetness (12 hours or more) and forward disease development. |   |      |  |   |   |      |  |       |      |      |  |      |      |                                  |      |      |      |
| Weekly normal weather | Std. Week/Normal  | 5  | 6   | 7    | 8  | 9   | 10  | 11   | 12   | 13    | 14   | 15   | 16   | 17   | 18   | 19                               | 20   | 21   | 22   |
|                       | Rainfall (mm)   | 6.5  | 5.0   | 4.5  | 8.0  | 4.0   | 2.5   | 4.5  | 11.5   | 12.0  | 11.5 | 7.0  | 12.5   | 21.5 | 28.5 | 30.5                             | 36.0 | 44.5 | 38.5 |
|                       | Max. Temp. (°C)   | 26.6   | 27.8  | 28.9 | 30.0   | 31.0  | 32.4  | 33.6 | 34.7   | 34.6  | 35.5 | 36.1 | 36.5   | 36.3 | 36.0 | 36.0                             | 35.9 | 35.5 | 35.6 |
|                       | Min. Temp. (°C)   | 12.0   | 13.3  | 14.7 | 15.6   | 16.4  | 17.7  | 19.0 | 20.8   | 21.8  | 22.8 | 23.5 | 24.1   | 24.2 | 24.2 | 25.2                             | 25.0 | 25.5 | 26.0 |
|                       | RHmax (%)   | 94.9   | 94.2  | 94.0 | 93.7   | 93.2  | 92.5  | 92.1 | 92.1   | 92.4  | 92.4 | 92.9 | 92.4   | 92.3 | 92.8 | 92.7                             | 93.1 | 93.6 | 94.0 |
|                       | RHMin (%)   | 44.2   | 42.2  | 41.0 | 39.3   | 36.5  | 35.4  | 34.9 | 36.7   | 42.0  | 41.5 | 41.6 | 44.3   | 46.9 | 49.9 | 51.7                             | 54.8 | 58.7 | 60.0 |
|                       | SShr (hrs)  | 48.5   | 49.5  | 50.0 | 54.5   | 55.0  | 54.0  | 55.0 | 53.0   | 51.5  | 55.5 | 54.5 | 54.5   | 55.5 | 54.0 | 51.5                             | 52.5 | 46.5 | 45.5 |
| Stages                |   |  |   |      |   |   |   |      |  |       |      |      |  |      |      |                                  |      |      |      |
|                       | Germination and Seedling Planting   |  |   |      | Vegetative Growth  |   |   |      | Flowering & Fruiting   |       |      |      | Harvesting   |      |      |                                  |      |      |      |
| Disease life cycle    |  |   |  |      |  |  |  |      |  |       |      |      |  |      |      |                                  |      |      |      |
|                       | Spore association with host   | Spore germination  | Germ tube formation & Penetration   |      | Disease development  | After occurrence of disease the disease cycle continued up to bulb formation stage    |   |      |  |       |      |      |  |      |      |                                  |      |      |      |