



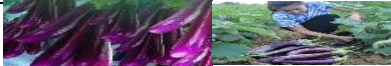































Crop Insect Weather Calendar *Rabi* season Brinjal (Epilachna beetle insect): Jessore Region (Districts: Jashore, Kushtia, Chuadanga, Jhenaidah, Meherpur, Magura) Bangladesh

| Region: Jessore | | Rabi Season Brinjal: Epilachna beetle insect | | | | | | | | | | | | | | | Life span: 170-180 days | | | | | | | | | | | |
|-------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|----------|---------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|---------|---------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------|------|----|
| Weather warning | Months | September | | | October | | | November | | | December | | | January | | | February | | | March | | | | | | | | |
| | Max. Temp. (°C) | High temperature (35 °C); 25°C temperature favored both fecundity and food consumption of the Epilachna beetle as well as larval development | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Min. Temp. (°C) | Population decreased with the temperature fall below 23 °C | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RH Max (%) | High relative humidity favored Epilachna beetle (70% or above) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RH Min (%) | 30% | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Rainfall (mm) | <i>Rainfall is favorable for the activity of Epilachna beetle population</i> | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Weekly normal weather | Std.Week/Normal | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Rainfall (mm) | | 68.0 | 59.0 | 69.5 | 44.5 | 33.0 | 26.5 | 20.0 | 9.0 | 8.0 | 7.5 | 1.0 | 2.0 | 1.5 | 4.0 | 0.0 | 3.5 | 0.5 | 1.5 | 2.5 | 3.0 | 6.5 | 5.0 | 4.5 | 8.0 | 4.0 | 2.5 | |
| Max. Temp. (°C) | | 32.9 | 33.0 | 33.2 | 33.2 | 33.0 | 32.7 | 31.9 | 31.1 | 31.1 | 30.3 | 29.6 | 28.5 | 27.7 | 26.6 | 25.7 | 25.2 | 24.5 | 24.5 | 25.1 | 25.6 | 26.6 | 27.8 | 28.9 | 30.0 | 31.0 | 32.4 | |
| Min. Temp. (°C) | | 26.0 | 26.0 | 25.3 | 25.1 | 24.4 | 23.4 | 21.6 | 20.7 | 19.4 | 18.0 | 16.7 | 15.1 | 14.0 | 13.4 | 12.3 | 11.4 | 10.9 | 10.7 | 11.0 | 10.8 | 12.0 | 13.3 | 14.7 | 15.6 | 16.4 | 17.7 | |
| RHmax (%) | | 96.6 | 96.3 | 96.6 | 96.5 | 96.5 | 96.5 | 96.1 | 95.9 | 95.9 | 95.7 | 95.7 | 95.4 | 95.2 | 95.8 | 95.5 | 95.7 | 95.4 | 95.3 | 95.3 | 94.9 | 94.9 | 94.2 | 94.0 | 93.7 | 93.2 | 92.5 | |
| RHMin (%) | | 70.8 | 69.7 | 67.7 | 67.0 | 64.4 | 61.5 | 57.1 | 56.2 | 52.0 | 49.8 | 48.1 | 46.3 | 47.2 | 49.2 | 49.4 | 47.9 | 49.6 | 47.9 | 47.0 | 44.7 | 44.2 | 42.2 | 41.0 | 39.3 | 36.5 | 35.4 | |
| SShr (hrs) | | 33.0 | 32.5 | 38.5 | 40.0 | 43.5 | 47.0 | 49.0 | 45.5 | 48.5 | 49.5 | 47.5 | 48.5 | 47.5 | 43.5 | 42.0 | 42.0 | 41.0 | 42.5 | 44.5 | 48.0 | 48.5 | 49.5 | 50.0 | 54.5 | 55.0 | 54.0 | |
| Stages |  | |  | | | | | | | | | | | | | | |  | | |  | | |  | | | | |
| | Germination and Seedling Planting | | Vegetative Growth | | | | | | | | | | | | | | | Flowering | | | Fruiting | | | Harvesting | | | | |
| Insect Life cycle | | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | | | |
| | | | Eggs (2 to 5 days) | | Grub (4 to 9 days) | | Pupa (9 to 15 days) | | Adults (3 to 10 days) | | Eggs (2 to 5 days) | | Grub (4 to 9 days) | | Pupa (9 to 15 days) | | Adults (3 to 10 days) | | Eggs (2 to 5 days) | | Grub (4 to 9 days) | | Pupa (9 to 15 days) | | Adults (3 to 10 days) | | | |

Crop Insect Weather Calendar Kharif season Brinjal (Epilachna beetle insect): Jessore Region (Districts: Jashore, Kushtia, Chuadanga, Jhenaidah, Meherpur, Magura) Bangladesh

| Region: Jessore | | Kharif Season Brinjal: Epilachna beetle insect | | | | | | | | | | | | | | | Life span: 170-180 days | | | | | | | | | | | | | | |
|-----------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|------|------|------|--------|--|--|--|--|
| Weather warming | Months | March | | | | | April | | | | | May | | | | | June | | | | | July | | | | | August | | | | |
| | Max. Temp. (°C) | High temperature (35 °C); 25°C temperature favored both fecundity and food consumption of the Epilachna beetle as well as larval development | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Min. Temp. (°C) | Population decreased with the temperature fall below 23 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RH Max (%) | High relative humidity favored Epilachna beetle (70% or above) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | RH Min (%) | 30% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Rainfall (mm) | <i>Rainfall is favorable for the activity of Epilachna beetle population</i> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Weekly normal weather | Std.Week/Normal | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | | | | | |
| | Rainfall (mm) | 4.5 | 11.5 | 12.0 | 11.5 | 7.0 | 12.5 | 21.5 | 28.5 | 30.5 | 36.0 | 44.5 | 38.5 | 49.5 | 54.5 | 81.0 | 72.5 | 82.0 | 72.0 | 83.5 | 73.0 | 63.5 | 56.0 | 68.0 | 48.5 | 50.5 | | | | | |
| | Max. Temp. (°C) | 33.6 | 34.7 | 34.6 | 35.5 | 36.1 | 36.5 | 36.3 | 36.0 | 36.0 | 35.9 | 35.5 | 35.6 | 35.3 | 34.0 | 33.3 | 33.0 | 32.7 | 32.9 | 32.7 | 32.7 | 33.0 | 32.8 | 32.7 | 33.1 | 33.3 | | | | | |
| | Min. Temp. (°C) | 19.0 | 20.8 | 21.8 | 22.8 | 23.5 | 24.1 | 24.2 | 24.2 | 25.2 | 25.0 | 25.5 | 26.0 | 26.2 | 26.2 | 26.1 | 26.2 | 26.0 | 26.1 | 26.2 | 26.2 | 26.0 | 26.2 | 26.0 | 26.1 | 26.0 | | | | | |
| | RHmax (%) | 92.1 | 92.1 | 92.4 | 92.4 | 92.9 | 92.4 | 92.3 | 92.8 | 92.7 | 93.1 | 93.6 | 94.0 | 94.1 | 94.8 | 95.7 | 96.0 | 96.1 | 96.1 | 96.1 | 96.1 | 96.0 | 96.2 | 96.5 | 96.2 | 96.2 | | | | | |
| | RHMin (%) | 34.9 | 36.7 | 42.0 | 41.5 | 41.6 | 44.3 | 46.9 | 49.9 | 51.7 | 54.8 | 58.7 | 60.0 | 62.1 | 67.5 | 71.7 | 73.5 | 74.4 | 73.4 | 74.6 | 73.4 | 72.6 | 73.0 | 73.0 | 71.7 | 71.0 | | | | | |
| | SShr (hrs) | 55.0 | 53.0 | 51.5 | 55.5 | 54.5 | 54.5 | 55.5 | 54.0 | 51.5 | 52.5 | 46.5 | 45.5 | 41.5 | 32.0 | 26.5 | 26.0 | 24.5 | 29.0 | 25.0 | 29.5 | 32.5 | 30.0 | 28.0 | 30.5 | 32.5 | | | | | |
| Stages |  | |  | | | | |  | | | | |  | | | | |  | | | | | | | | | | | | | |
| | Germination and Seedling Planting | | Vegetative Growth | | | | | Flowering | | | | | Fruiting | | | | | Harvesting | | | | | | | | | | | | | |
| Insect Life cycle |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | |  | | | | | | | | |
| | Eggs (2 to 5 days) | | Grub (4 to 9 days) | | Pupa (9 to 15 days) | | Adults (3 to 10 days) | | Eggs (2 to 5 days) | | Grub (4 to 9 days) | | Pupa (9 to 15 days) | | Adults (3 to 10 days) | | Eggs (2 to 5 days) | | Grub (4 to 9 days) | | Pupa (9 to 15 days) | | Adults (3 to 10 days) | | | | | | | | |