Crop Insect Weather Calendar *Rabi* season Brinjal (Epilachna beetle insect): Barisal Region (Districts: Patuakhali, Barisal, Jhalokhati, Pirozpur, Borguna, Bhola) Bangladesh

| Reç | gion: Barisal | | | | | | Rabi S | eason | Brinjal | l: Epilach | na beet | le inse | ct | | | | | | Life span: 190-210 days | | | | | | | | | | | | | | | |
|---------|-------------------|------|-------------|----------|----------|-------------------|---------|-----------------|---------------------|----------------------|----------------------|---|-------------|--------------|----------------|--|------------|-----------------------|------------------------------|------|--------|------|---|--|--|--|--|--|--|--|--|--|--|--|
| | Months | | March | | | Α | pril | | | | Мау | June | | | | | | J | uly | | August | | | | | | | | | | | | | |
| ırning | Max. Temp. (°C) | | | | | | High te | mperature | e (35 °C); 2 | 25°C temper | ature favore | ed both fe | cundity a | nd food co | nsumption o | of the Epilac | hna beetle | e as well as larval d | evelopment | | | | | | | | | | | | | | | |
| war | Min. Temp. (°C) | | | | | | | | | | Populat | ion decrea | ased with | the tempe | rature fall be | elow 23 °C | | | | | | | | | | | | | | | | | | |
| ther | RH Max (%) | | | | | | | | | | High relat | ive humidi | ity favored | l Epilachna | a beetle (70° | % or above) | | | | | | | | | | | | | | | | | | |
| Weather | RH Min (%) | | | | | | | | | | | | | 30% | | | | | | | | | | | | | | | | | | | | |
| | Rainfall (mm) | | | | | | | | | | <i>Rainfall</i> is f | avorable f | for the ac | tivity of Ep | ilachna beet | le populatio | n | | | | | | 115 21.7 33.7 24.0 96.4 59.8 59.8 51.3 | | | | | | | | | | | |
| er | Std.Week/Normal | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | | | | | | | | | | | |
| weather | Rainfall (mm) | 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 | 5.7 | 5.3 | 6.0 | 14.3 | 18.0 | 18.0 | 21.7 | | | | | | | | | | | |
| | Max. Temp. (°C) | 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 | 30.7 | 31.7 | 32.7 | 33.0 | 32.9 | 33.3 | 33.7 | | | | | | | | | | | |
| ormal | Min. Temp. (°C) | 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 | 18.3 | 19.5 | 20.5 | 22.1 | 22.8 | 23.7 | 24.0 | | | | | | | | | | | |
| ly noı | RHmax (%) | 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 | 96.7 | 97.1 | 96.7 | 96.5 | 96.5 | 96.6 | 96.4 | | | | | | | | | | | |
| Weekly | RHMin (%) | 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 | 44.9 | 45.2 | 45.3 | 50.7 | 54.4 | 58.0 | 59.8 | | | | | | | | | | | |
| М | SShr (hrs) | 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 | 53.7 | 54.0 | 54.3 | 52.3 | 50.7 | 53.0 | 51.3 | | | | | | | | | | | |
| | Stages | | | | 5 | | | | | S. | | | X | | X | | | | | | | | | | | | | | | | | | | |
| | Insect Life cycle | | ition and § | Seedling | Planting | Vegetative Growth | | | | | | | Flo | wering | | | Fruit | ting | Harvesting | | | | | | | | | | | | | | | |
| Ir | | | | | | | | | | | | | | | |) 🎻 🚫 👯 | | | | | | | | | | | | | | | | | | |
| | | | | | | Eggs (2 to 5 d | | Grub 9 days) | Pupa (9 to 15 da | Adu ays) (3 to 10 | | ggs Grub Pupa Adı 5 days) (4 to 9 days) (9 to 15 days) (3 to 1 | | | | ults Eggs Grub Pupa (2 to 5 days) (4 to 9 days) (9 to 15 day | | | Adults ys) (3 to 10 days) | | | | | | | | | | | | | | | |

Crop Insect Weather Calendar *Kharif* season Brinjal (Epilachna beetle insect): Barisal Region (Districts: Patuakhali, Barisal, Jhalokhati, Pirozpur, Borguna, Bhola) Bangladesh

| R | egion: Barisal | | Kharif Season Brinjal: Epilachna beetle insect | | | | | | | | | | | | | | | Life span: 190-200 days | | | | | | | | | | | |
|---------|-------------------|--|--|------|------|---------------|-------------------|---------------|------------------|---------|-----------------|----------|--------------------|----------|----------------|-------------------|------------|-------------------------|---------------------|-------------|-------------------|------------|--------------------|----------------------|-------|------|------|------|------|
| | Months | | Feb | | | March April | | | | | | | | | May | | | | | | June | | | | July | | | | ug |
| warning | Max. Temp. (°C) | | | | | | | F | ligh temp | eratur | e (35 º | C); 25°C | tempera | ature fa | vored bo | th fecuno | dity and | food consi | umption o | f the Epila | chna beetle a | as well as | arval dev | elopment | t | | | | |
| war | Min. Temp. (°C) | Population decreased with the temperature fall below 23 °C | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ther | RH Max (%) | | | | | | | | | | | | | High r | elative h | umidity fa | avored E | pilachna b | eetle (70% | % or above |) | | | | | | | | |
| Weather | RH Min (%) | | | | | | | | | | | | | | | | 30 |)% | | | | | | | | | | | |
| | Rainfall (mm) | | | | | | | | | | | | | Rainfall | is favora | able for th | ne activit | y of Epilac | hna beetl | e populatio | on | | | | | | | | |
| er | Std.Week/Normal | 8 | 9 | 10 | 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 |
| weather | Rainfall (mm) | 8.0 | 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 | 1.05 | 129.7 | 126.3 | 129.0 | 91.7 | 111.7 | 115.0 | 100.0 | 92.7 | 95.7 | 82.3 | 81.0 |
| | Max. Temp. (°C) | 29.7 | 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 | 30.08 | 31.0 | 31.2 | 31.2 | 31.2 | 31.5 | 31.5 |
| normal | Min. Temp. (°C) | 16.9 | 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 | 26.0 | 25.9 | 26.0 | 26.0 | 26.0 | 26.0 | 26.0 |
| kly 1 | RHmax (%) | 97.0 | 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 | 97.4 | 97.6 | 97.4 | 97.3 | 97.2 | 97.3 | 97.3 |
| Weekly | RHMin (%) | 45.1 | 44.9 | 45.2 | 45.3 | 50.7 | 54.4 | 58.0 | 59.0 | 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 | 81.0 | 80.0 | 78.9 | 78.6 | 79.0 | 77.6 | 77.4 |
| | SShr (hrs) | | | | 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 | 21.0 | 25.3 | 26.0 | 25.7 | 26.0 | 27.3 | 29.0 |
| | Stages | | | | | Sector Sector | | | | | | | | | | | | | | | | | | | | | | | |
| | | | Germination and Seedling Planting | | | | Vegetative Growth | | | | | | | | | Flowering | | | | Fruiting | | | | Harvesting | | | | | |
| | Insect Life cycle | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Eggs (2 to 5 d | s days) (4 | Grub to 9 day | s) (9 1 | Pupa to 15 d | | Adults o 10 day | s) (2 to | ggs 5 days) | Grut (4 to 9 d | | Pupa to 15 days) | Adult (3 to 10 d | | 5^{5} (4 to 9 (| | Pupa o 15 days) | Adults (3 to 10 d | | | | | |