

## DISEASE CALENDAR FOR LEAF SPOT (*Phyllosticta perseae*), ANTHRACNOSE (*Colletotrichum gloeosporioides*), And GREY BLIGHT (*Pestalotiopsis desiminata*) IN SOM

| Locations   | Disease     | Jan | Feb | Mar | Apr | May | Jun | July | Aug. | Sep | Oct | Nov | Dec |
|-------------|-------------|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|
| Upper Assam | Leaf spot   |     |     |     |     |     |     |      |      |     |     |     |     |
|             | Anthracnose |     |     |     |     |     |     |      |      |     |     |     |     |
|             | Grey blight |     |     |     |     |     |     |      |      |     |     |     |     |
| Lower Assam | Leaf spot   |     |     |     |     |     |     |      |      |     |     |     |     |
|             | Anthracnose |     |     |     |     |     |     |      |      |     |     |     |     |
|             | Grey blight |     |     |     |     |     |     |      |      |     |     |     |     |
| West bengal | Leaf spot   |     |     |     |     |     |     |      |      |     |     |     |     |
|             | Anthracnose |     |     |     |     |     |     |      |      |     |     |     |     |
|             | Grey blight |     |     |     |     |     |     |      |      |     |     |     |     |

|  |                 |
|--|-----------------|
|  | <10 %           |
|  | >10 %           |
|  | > 5 %           |
|  | > 1 %           |
|  | No Infestation  |
|  | Survey not done |

## PESTS CALENDAR FOR STEM BORER (*Zeuzera indica*) AND LEAF GALL (*Aspondylia spp* & *Pauropsylla beelsoni*) IN MUGA HOST PLANT

| Locations   | Pests      | Jan | Feb | Mar | Apr | May | Jun | July | Aug | Sep | Oct | Nov | Dec |
|-------------|------------|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|
| Upper Assam | Stem borer |     |     |     |     |     |     |      |     |     |     |     |     |
|             | Leaf gall  |     |     |     |     |     |     |      |     |     |     |     |     |
| Lower Assam | Stem borer |     |     |     |     |     |     |      |     |     |     |     |     |
|             | Leaf Gall  |     |     |     |     |     |     |      |     |     |     |     |     |
| West bengal | Stem borer |     |     |     |     |     |     |      |     |     |     |     |     |
|             | Leaf Gall  |     |     |     |     |     |     |      |     |     |     |     |     |

|  |                 |
|--|-----------------|
|  | <10 %           |
|  | >10 %           |
|  | > 5 %           |
|  | > 1 %           |
|  | No Infestation  |
|  | Survey not done |

### CONTROL MEASURES: (Stem borer)

Plant extracts : 5-15% plant extract of Neem, Dotura ,Titabahak and Castor control the infestation.

Chemical control : Plugging of borer holes with cotton swab soaked in 1.5% Nuvan followed by mud plastering of the openings.

### CONTROL MEASURES: (Leaf gall)

Collection of infested leaves, twigs and destroy the same in scientific way is recommended.

If the infestation is heavy (more than 25%) pruning and burning of the leaves and twigs is essential.

## PEST CALENDAR FOR UZI (*Exorista sorbillan* / *Blepharipa zebina*) OF MUGA SILKWORM

| Locations   | Jan        | Feb    | Mar    | Apr        | May        | Jun        | July | Aug | Sep | Oct | Nov | Dec |
|-------------|------------|--------|--------|------------|------------|------------|------|-----|-----|-----|-----|-----|
| Upper Assam | Light Pink | Red    | Red    | Orange     | Light Pink | Light Pink |      |     |     |     |     |     |
| Lower Assam | Light Pink | Red    | Red    | Light Pink | Light Pink |            |      |     |     |     |     |     |
| West bengal | Light Pink | Orange | Orange | Light Pink | Light Pink | No rearing |      |     |     |     |     |     |

|             |                 |
|-------------|-----------------|
| Red         | <10 %           |
| Orange      | >10 %           |
| Light Pink  | > 5 %           |
| Light Green | > 1 %           |
| Dark Blue   | No Infestation  |
| White       | Survey not done |

Control measures : (for Uzi)

Use nylon net .

Release of hyper parasitoids before the peak season is essential to control the Uzi fly.

## DISEASE CALENDAR FOR MUSCARDINE (*Beauveria bassiana*) AND FLACHERIE (*Bacillus thuringiensis*) IN MUGA SILKWORM

| Locations   | Disease    | Jan         | Feb         | Mar         | Apr            | May            | Jun            | July           | Aug             | Sep             | Oct             | Nov             | Dec             |
|-------------|------------|-------------|-------------|-------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Upper Assam | Muscardine | Infestation | Infestation | Infestation | No Infestation | No Infestation | No Infestation | No Infestation | Survey not done | Survey not done | Survey not done | Survey not done | Survey not done |
|             | Flacherie  | Infestation | Infestation | Infestation | Infestation    | Infestation    | Infestation    | Infestation    | Survey not done | Survey not done | Survey not done | Survey not done | Survey not done |
| Lower Assam | Muscardine | Infestation | Infestation | Infestation | No Infestation | No Infestation | No Infestation | No Infestation | Survey not done | Survey not done | Survey not done | Survey not done | Survey not done |
|             | Flacherie  | Infestation | Infestation | Infestation | Infestation    | Infestation    | Infestation    | Infestation    | Survey not done | Survey not done | Survey not done | Survey not done | Survey not done |
| West bengal | Muscardine | Infestation | Infestation | Infestation | No Infestation | No Infestation | No Infestation | No Infestation | Survey not done | Survey not done | Survey not done | Survey not done | Survey not done |
|             | Flacherie  | Infestation | Infestation | Infestation | Infestation    | Infestation    | Infestation    | Infestation    | No rearing      |                 |                 |                 |                 |

|  |                 |
|--|-----------------|
|  | <10 %           |
|  | >10 %           |
|  | > 5 %           |
|  | > 1 %           |
|  | No Infestation  |
|  | Survey not done |



**Control: (for Muscardine disease)**  
**Selection of sunny plot for rearing**

- Properly disinfect the rearing field.
- Use of nylon net is essential
- Spray LAHDOI thoroughly on the leaves, tree trunk and soil before 7days of the brushing of Jarua crop

**Control: (for Flacherie)**

- 1) Properly disinfect the rearing field
- 2) Follow the proper pruning schedule
- 3) Provide age specific leaves