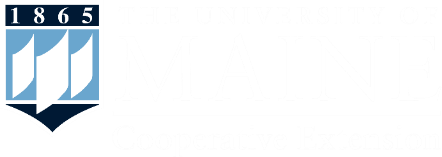
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **MAY** | | | | | | | | **JUNE** | | | | | | **JULY** | | | | | | | | | | | | **AUGUST** | | | | | | | **SEPTEMBER** | | | | | | | |
|  |  | | | | | | | | |  | | **Note:** Winter moth larvae *have yet to be captured* on any of our Maine cranberry beds (only a few small areas in Maine are known to have them currently), but they are perfectly content to stay and feed on cranberry buds when winds blow them from their host trees onto a cranberry bed; fairly big problem on Massachusetts cranberries in recent years (larvae begin feeding as early as April in MA) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | Winter moth inchworms | | | | | | | | |  | |
| *[Female winter moths cannot fly, which fortunately slows the spread of this pest!]* | | | | | | | | | | | |
|  | | Eggs hatch | | | | Blackheaded fireworm larvae (1st generation) | | | | | | | | | |  | | | |  | | | | | | |  | 2nd Gen. larvae | | | |  |  | 3rd Gen. possible in warmer years? | | | | | |  |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | |  | | | False armyworm larvae | | | | | |  | |  | |  | | | | |  | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | |  | | | | Blossomworm larvae | | | | | | | | | | |  | | | | | |  | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | |  | | | | | Gypsy moth larvae | | | | | | | | | | | | | | |  | | |  |  | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | |  | | | | Other spanworms/inchworms | | | | | | | | | | | | | | | | | |  |  | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Survive on blueberry and other hosts | | **Cranberry weevils** [migrate to cranberry beds throughout this period] | | | | | | | | | Weevils lay eggs in the blossom pods | | | | | | | | | | The old weevils die; new ones develop (2nd Gen.) | | | | | | | |  | Weevils leave to spend the winter in upland areas. | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | |  | | Cranberry tipworm larvae (multiple generations) | | | | | | | | | | | | | | | | | | | | | | | | | Until upright growth stops | | | |  | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | nymphs first  **= variable or uncertain timing**  **Legend**  **= feed at night** (1½ to 2 inches long)  **= pest ‘expected’ during this period** | | | | Bluntnosed leafhoppers (vectors of False Blossom) | | | | | | | | | | | | | | | | | | | | | | | | Until hard frost | |  | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | |  | | Redheaded flea beetles | | | | | | | | | | |  | |  | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | |  | | | | CFW eggs begin | | | | Cranberry fruitworm eggs and larvae | | | | | Fruitworm larvae (no more eggs by this point) | | | | |  | |  | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Damaging Stage & Timing of Maine Cranberry Insect Pests**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **How do they spend the winter?** | | | | |
|  | | | | |
| Blackheaded fireworm | egg |  | Brown + Big spanworms | pupa |
| Bluntnosed leafhopper | egg |  | Cranberry tipworm | pupa |
| Cranberry blossomworm | egg |  | Cranberry weevil | adult/beetle |
| Redheaded flea beetle | egg |  | False armyworm | adult/moth |
| Gypsy moth | egg |  | Winter moth | adult/moth |
| Green spanworm | egg |  | Cranberry fruitworm | Larva (inside hibernaculum) |

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