

## CabbageMaggot

PestFactSheet28

Dr. Alan T. Eaton, Extension Specialist, Entondogy

#### Introduction

The caloring magget, Dalia radium, isone of the most destructive early see on pests of orusifers and cartain root or ops in New Hampshire I trancause severe injury to calorage, califlowers, broadi, Bussels sprouts, radishes, turnips, rutabage, beets, and calery if not controlled

#### Description

The add the similar in appearance to the common house fly, but smaller (1/4" long). It is dark, ashy-gray with black stripes on its thorax and black bristles cover its body. Inspring females are commonly seen flying dose to the ground depositing small white eggs in cracks and crevices near the stems of host plants

The lavæ that emerge from the eggs are white legess tapered maggets that feed on the roots of cole crops The maggets later change to hard, brown, egg-shaped pupae about <sup>1</sup>/<sub>4</sub>" long.

#### LifeCyde

The cabbage magget spends winter as a pupa, 1 to 5 deep in the soil. When the soil warms up in spring about the time grobers are setting out transplants, the adults emerge, mate, and lay eggs on the soil near host plants

The eggs hatch in 3 to 7 days and the small maggets seek out roots and begin feeding They destroy plant roots by turneling which often causes young cabage, broccoli, and cauliflower seedlings to will tand de Plantslike radish and turnip become scored with feeding trails, making them susceptible to attack by d sease organisms

The larvae complete development in 3-4 weeks and begin pupating In 2 to 3 weeks usually in late uneard JUy, the adults emerge and work their way through the soil to the surface

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Adultcabbagemaggot Gredit AlanT. Eaton

The cabbage maggot is one of the most destructive early season pests of crucifers and certain root crops in New Hampstire



Damaged plant removed from the soil, showing the chanage, plusal arva and several pupee. Gredit D. W. Sutherland, University of New Hampshire.



Rowcover of insect netting protecting plants Gredit AlanT. Eaton



Cabbagemaggottarpaperinuse Gredit AlanT. Eaton



Delaying planting until June can prevent the first generation of cabbage maggots from laying eggs onyour plants



Healthycablageplant (left) next to cheese versity attacked by cablage magget (right). Credit D W. Sutherland, University of New Hampshire

tostartanewgeneration Thereare typically 3or 4generations of cabbage maggeoteach growing seeson in New Hampshire Damage is worst in early spring, and lowest in mid-summer.

#### Management

#### **IPM Strategies**

#### Cultural Practices

- Row covers Cover cabbage family transplants or newly-seeded rowswithfloatingrowcoversuntil Line 1, or chaypanting until then to foil the first generation of egg-laying cabbage magpotflies
- Barriers- Alternatively, protect cabage, broadi, califlower, and other colecrop transplants with barriers made by punching and ein the center of a 6" square of tapper and slitting the paper from one corner to the center hole. Then, place the tapper square flat on the ground, with center hole study encircling the stem of the transplant.
- Orap Rotation Rotatespringaraps to a field that was not planted previously with Brassica craps

#### Bdagical Control

 There are a number of natural preclators that feed on cablage maggipteggs, larvae, and pupae They can cause high levels of mortality.

#### Chemical Control

 Direct application of insecticides to the root zone is considered the most effective means for controlling magget change Consulty our country Agricultural Field Special ist for specific recommendations

Step! Read the label on every pesticide container each time before using the material. Restrictes must be applied only as directed on the label to be in compliance with the law. All pesticides listed in this publication are contingent upon continued registration. Contact the Division of Restricte Control at (603) 271-3550 to check registration status. Dispose of empty containers safely, according to New Hampshire regulations Updated: Dr. Alan T. Eaton and Rachel Maccini, July 2016

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