Controlling cabbage maggot in turnips with the Lorsban ban by B. Werling and Z. Szendrei

Maggots in a minute

Cabbage maggot flies look like tiny houseflies. In spring, flies emerge from overwintering pupae and lay eggs on plants in the brassica family, including turnips. Eggs hatch into maggots in 3-5 days. This first batch-or generation-of maggots feeds on roots for 18-22 days. They then form a pupa-the fly version of a cocoon. After 15-30 days, "1st-generation" flies emerge from these pupae to kickstart the cycle again: they lay eggs, maggots develop, and pupate into the "2nd generation" of flies. The maggoty offspring of 2nd-generation flies pupate in the fall, entering the fly version of hibernation for 5-8 months. In spring, flies emerge from these overwintering pupae, searching for a new field.



Maggots tunnel in turnips Early tunnels heal and scar, later tunnels stay open



Use degree-days to time your sprays

Degree day models can be used to predict when flies emerge from overwintering pupae in spring, and peak activity of this overwintered, first and second generation. The graphic shows average predictions for a Hudsonville, MI weather station. Regional weather networks like EnviroWeather and NEWA include this model, and can be used to aid timing of post-plant sprays.



What kills cabbage maggot?

Trials have identified four main active ingredients that can suppress or control cabbage maggot

	Tradename	a.i.	timing	W M
	Verimark	cyantraniliprole	in-furrow	
	Mustang Maxx	zeta-cypermethrin	post-plant broadcast	Hi tai
	Exirel	cyantraniliprole	post-plant drench	
	Radiant	spinetoram	post-plant drench	рі
	Entrust SC	spinosad	post-plant drench	

Weekly broadcast apps of Mustang Maxx reduce damage



High-volume banded drenchestargeting peaks-concentrate other products when and where needed



What to put in the tank each week?

Consider applying Verimark* in-furrow at planting time. Then make weekly decisions about post-plant applications based on fly activity. Below is a decision tree you could use each week.

