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Spotted tentiform leafminer - Phyllonorycter blancardella (Fabr.)

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Spotted tentiform leafminer (STLM) has three generations a year in Michigan. First generation adults emerge around bud break (tight cluster in northwest MI) to lay eggs on the undersides of leaves. First egg hatch occurs 2 to 3 weeks later.

Pheromone traps can be used to determine first moth emergence. Second generation adults emerge mid-June; third generation adults in August.

Larvae feed on foliage with each larval mine disrupting 4 to 5 percent of leaf area. Fruit quality, size, retention, and set can be affected if enough area is lost to mining.



The first 3 larval instars are sap feeders, and are white to pale green, legless, wedge-shaped, and deeply segmented (about 1.5 mm).



The fourth and fifth larval instars are tissue feeders, and are more cylindrical, have legs and a typical caterpillar head capsule (about 5 mm; white to pale green).



Adult moths are small (3 mm long) with distinctive gold, black and white wing patterns

STLM eggs are attached to the underside of a leaf with a flattened surface. The exposed surface is a yellowish oval dome.



Leafminer mines in apple.

Spotted tentiform leafminer monitoring and thresholds

	Monitoring	Threshold**
End of 1 st generation	To assist in 2 nd generation decisions, check 50 tented mines from 25 trees to deter- mine % parasitism.	
Early 2 nd generation	Sample 50 or 100 leaves per block, count # mines per leaf.	2-3 per leaf, higher if 30-35 % parasitism was found in first sample.

Late 2 nd generation	Sample 50 or 100 mines and determine % parasitism.	
Early 3 rd generation ism.	Sample 50 or 100 leaves per block, count # mines per leaf.	5-8 mines per leaf, higher if 35% parasit-
** Note that structure	thresholds will vary base and variety.	d on tree

Additional information

- For more monitoring information and evaluation of available pesticides: Michigan Fruit Management Guide
- A Practical Guide to Scouting Apple Orchards a DVD showing how to scout apple orchards.
- MSU Diagnostic Services for assistance in pest identification.
- MSU Fruit Crop Advisory Team Alert newsletters for current pest/crop conditions.

This information was developed from **A Pocket Guide for IPM Scouting in Michigan Apples** by David Epstein, Larry J. Gut and George W. Sundin. Purchase this in a pocket-sized guide for reference in the orchard from **MSU Extension** (publication E-2720).

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06/02/08 Funding support: Project GREEEN, the Michigan Apple Committee and the MSU IPM Program. Download Adobe Acrobat Reader to view pdf files.



Partial support from NC-IPM Center.

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