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Update on Pest Management  
and Crop Development

F R U I T J O U R N A L

August 16, 1999

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Geneva, NY

GENERAL INFORMATION

INSECTS

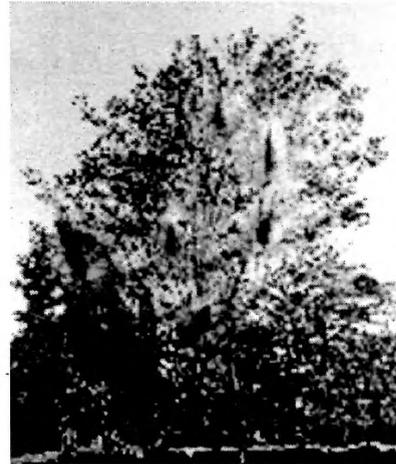
## PLOT RESOLUTION

N.Y. FRUIT PEST CONTROL FIELD DAY - 2nd NOTICE



❖❖ Don't forget this annual event, sponsored by the Departments of Plant Pathology and Entomology, which has been scheduled for September 8-9 this year. All those interested are invited to attend this preliminary presentation of results of field trials on the control of diseases and insects attacking N.Y. fruit crops. Results will be discussed from experiments on tree fruits and grapes. First in Highland, the tour of research plots will take place on Wednesday, September 8. On Thursday, September 9, the activities shift to the Geneva Station, where there will be presentations on disease and arthropod control in tree fruits. Registration begins at the Hudson Valley Laboratory in Highland at 8:30 (Wednesday, September 8) and at Barton Laboratory, NYSAES, Geneva (Thursday, September 9). See you there. ❖❖

spread defoliator that exhibits a preference for American elm, maples and hickory in this region, but a season with sparse OP sprays for apple maggot can bring the local populations into full view on apples and cherries. Adult females, white moths with a few dark spots and a 1-inch wingspan, deposit eggs in early spring, and the yellowish tan larvae pass through many instars (10-11) feeding within a large, compact web they produce that often encloses a whole limb of foliage.



continued...

## TENT CITY

ENTANGLEMENTS (Art Agnello, Entomology, Geneva)

❖❖ The appearance of some unsightly webbing in a few trees here and there reminds us of the perennial activities of the fall webworm, *Hyphantria cunea*, a tiger moth (Arctiidae) whose larva feeds on almost all shade, fruit, and ornamental trees except conifers. This is a wide-

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### PEST FOCUS

### INSECT TRAP CATCHES

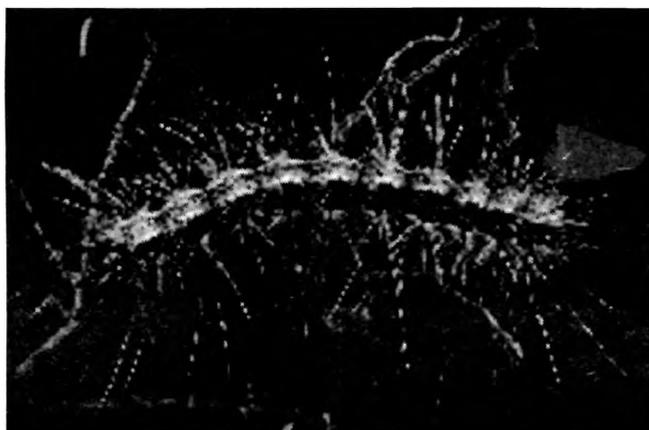
### UPCOMING PEST EVENTS



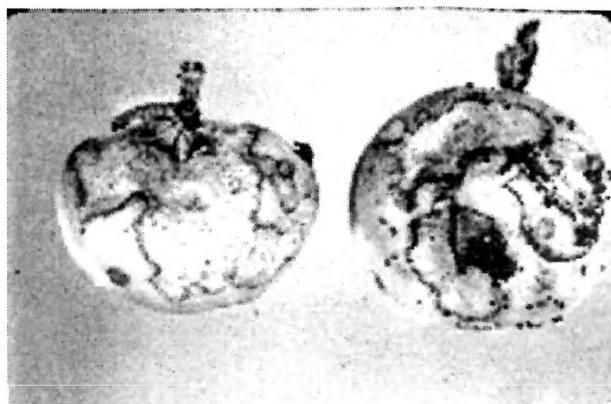
When disturbed, all the larvae in the web make jerky movements in perfect rhythm, possibly as a defense mechanism. According to Warren Johnson (“Insects that Feed on Trees and Shrubs”), nests of the fall webworm may be cut out of small trees and destroyed; alternatively, an application of a B.t. material can be effective. Although foliage is the most common food of the webworms, they have been known to do significant damage to apple fruits through surface feeding. Normally, however, this insect is detrimental mainly to the beauty of the host and is thus more a nuisance than a true threat to the tree’s health. ❖❖



Fall webworm infestation on apple branches.



Fall webworm larva.



Fall webworm damage to fruits.

## PEST FOCUS

Highland:

Note on last week's assessment of 'high' **Apple Maggot** activity: This was based on observations of regional populations, presuming differences in soil moisture and rainfall. The high activity was noted in Hudson, NY, where a resident in-orchard population exists and where there is considerably more rainfall than at the Hudson Valley Lab.

## scaffolds

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**scaffolds** FRUIT JOURNAL

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and on the World Wide Web at:  
<http://www.nysaes.cornell.edu/ent/scaffolds/>

## INSECT TRAP CATCHES (Number/Trap/Day)

Geneva, NY				Highland, NY			
	<u>8/9</u>	<u>8/12</u>	<u>8/16</u>		8/9	8/16	
Spotted tentiform leafminer	542	523	573	Spotted tentiform leafminer	30.7	12.6	
Redbanded leafroller	0	0	0	Redbanded leafroller	<0.1	0.1	
Oriental fruit moth	22.9	20.3	15.6	Oriental fruit moth	0	0	
Lesser appleworm	13.6	14.0	9.5	Codling moth	1.7	0.6	
Codling moth	1.6	2.0	4.8	Lesser appleworm	0	0	
American plum borer	0.3	0.2	-	Fruittree leafroller	0	0	
Lesser peachtree borer	0.3	1.0	-	Obliquebanded leafroller	0.5	<0.1	
Obliquebanded leafroller	0.1	0	0	Tufted apple budmoth	1.9	1.3	
San Jose scale	1.5	0.7	1.6	Variogated leafroller	1.4	2.4	
Peachtree borer	1.1	1.0	0.4	Sparganothis fruitworm	<0.1	1.2	
Dogwood borer	0.1	0.7	-	Apple maggot	<0.1	<0.1	
Apple maggot	0.3	0.4	0.1				

## UPCOMING PEST EVENTS

	<u>43°F</u>	<u>50°F</u>
Current DD accumulations (Geneva 1/1-8/16):	2804	1950
(Geneva 1998 1/1-8/16):	2902	1998
(Geneva "Normal" 1/1-8/16):	2544	1836
(Highland 1/1-8/16):	3296	2365

### Coming Events:

	<u>Ranges:</u>	
American plum borer 2nd flight subsides	2841-3698	1907-2640
Apple maggot flight subsides	2764-3656	1904-2573
Codling moth 2nd flight peak	1587-3103	1061-2212
Lesser appleworm 2nd flight peak	2961-3328	1927-2359
Lesser peachtree borer flight subsides	2782-3474	1796-2513
Obliquebanded leafroller 2nd flight peak	2634-3267	1789-2231
Oriental fruit moth 3rd flight peak	2389-3267	1660-2326
Peachtree borer flight subsides	2230-3255	1497-2309
Redbanded leafroller 3rd flight begins	2389-3113	1722-2209
San Jose scale 2nd flight subsides	2494-3257	1662-2302
STLM 3rd flight peak	2415-3142	1728-2231

NOTE: Every effort has been made to provide correct, complete and up-to-date pesticide recommendations. Nevertheless, changes in pesticide regulations occur constantly, and human errors are possible. These recommendations are not a substitute for pesticide labelling. Please read the label before applying any pesticide.

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