



# Newsletter Extension

## Fruit ICM News

Volume 8, No. 30  
August 19, 2004

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## Borers of Peach, Cherry and Plum Trees

*Source: 2004 Commercial Tree Fruit Spray Guide*

The peachtree borer, lesser peachtree borer, and shothole borer often infest peach, apricot, cherry, and plum trees. Peachtree borers infest the trunk at the soil line, while lesser peachtree borers infest scaffold limbs and the upper trunk. The peachtree borer is primarily a pest of young trees, whereas the lesser peachtree borer is a pest of older trees. The shothole borer is often found in trees of low vigor with dead and/or diseased limbs.

Moths of the two peachtree borers lay their eggs on the surface of the bark; shothole beetles lay their eggs in the inner bark. Some of the regularly applied cover sprays aid in controlling borers; however, specific trunk and scaffold branch sprays are often required. Pheromone traps are available to monitor emergence of the adult (moth) stage of lesser peachtree borer and peachtree borer. Knowledge of the time of initial moth emergence and peak emergence can aid in proper timing of insecticide applications, because insecticides target the hatching eggs laid by the newly emerged moths.

## Insecticides Used to Manage Borers of Peach, Cherry, and Plum Trees

*Source: 2004 Commercial Tree Fruit Spray Guide*

### Lesser Peachtree Borer

<u>Material</u>	<u>Rate/100 gal</u>
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Lorsban 4 EC *	1.5 - 3 qt
OR Thiodan 3 EC **	1 qt
OR Thiodan 50 WP **	1.5 lb
OR Asana XL 0.66 EC	2 - 5.8 fl oz

Rate/Acre

OR Asana XL 0.66 EC	4.8 - 14.5 fl oz
OR Ambush 2 EC	6.4 - 19.2 fl oz
OR Ambush 25 WP	6.4 - 19.2 oz
OR Pounce 25 WP	6.4 - 25.6 oz
OR Pounce 3.2 EC	4 - 12 fl oz
OR Lorsban 50 WP ***	2 - 3 lb
OR Warrior 1 E	2.5 - 5.1 fl oz
OR Isomate LPTB*****	100 - 250 dispensers

**Comments for lesser peachtree borer**

The pheromone trap for lesser peachtree borer should be in place by peach petal fall (usually mid to late April), in time to detect the first of the two generations of this pest. Lorsban is not labeled for use on plums. Use only Pounce, Ambush, Thiodan or Warrior on plums. Where lesser peachtree borer has been a light-to-moderate problem, apply insecticide once at the peak of the second moth flight (often mid-August, usually post-harvest). Where lesser peachtree borer has been a moderate to heavy problem, make two applications: one 7 to 14 days after emergence of first-generation moths begins (spray mid-May to early June), and the second at the peak of the second-generation moth flight (often mid-August).

**Peachtree Borer**

<u>Material</u>	<u>Rate/100 gal</u>
Lorsban 4 EC*	3 qt
OR Asana XL 0.66 EC	2 - 5.8 fl oz
OR Thiodan 50 WP **	1.5 lb
OR Thiodan 3 EC **	1 qt
	Rate/Acre
OR Lorsban 50 WP ***	2 - 3 lb
OR Warrior 1 E	2.5 - 5.1 fl oz
OR Isomate-p*****	100 - 250 dispensers

**Comments for peachtree borer**

The pheromone trap for peachtree borer should be in place by early June to detect the first emergence of

the single generation of this pest. Where peachtree borer has been a light to moderate problem, make a single spray at the time of peak moth emergence (usually in late July or early August). Where peachtree borer has been a moderate to heavy problem, make two applications, one 7 to 14 days after moth emergence begins and another 6 to 8 weeks later.

### Comments for shothole borer

Shothole borer insecticide sprays are not effective. Maintain tree health and vigor, prune dead and dying limbs, and remove dead trees to prevent beetle problems.

### Notes:

**\*Lorsban 4 EC:**

Apply as trunk spray; do not contact fruit. On peach or nectarine, do not make more than one application per season, nor within 14 days of harvest; on cherry, make two pre-harvest applications (the last one at least 6 days before harvest) and one post-harvest application.

**\*\* Thiodan 3 EC or 50 WP:**

Do not make more than two applications during the fruiting period, nor within 21 days of harvest of peach, nectarine, or cherry.

**\*\*\*Lorsban 50 W:**

Labeled for borer control on sour cherry, but not on sweet cherry, peach, or nectarine.

**\*\*\*\*Mating Disruption for Peach Pests:**

Several mating disruption products are registered for control of Oriental fruit moth, lesser peachtree borer, and peachtree borer. They dispense species-specific sex attractants that are designed to prevent male moths from locating and mating with females. This strategy is most likely to succeed in blocks of at least 5 acres, where initial populations of these pests are low. If mating disruption is used in smaller blocks or where infestations are greater, border sprays or additional sprays may be necessary. Mating disruption will not manage other insect pests that are normally controlled by cover sprays (plum curculio, green June beetle, and plant bugs). Mating disruption has been effective against Oriental fruit moth. Although Isomate-LPTB is labeled for both lesser peachtree borer and peachtree borer, efficacy for borer control is still unknown.

## Degree Day Accumulations for Ohio Sites August 18, 2004

Location	Degree Day Accumulations Base 50° F	
	Normal	Actual
Akron-Canton	1940	2048
Cincinnati	2493	2672
Cleveland	2027	2009
Columbus	2437	2303
Dayton	2301	2378
Kingsville	1835	1884
Mansfield	1928	2029

Norwalk	2076	2006
Piketon	2485	2594
Toledo	2065	2005
Wooster	2078	1905
Youngstown	1826	1859

## Apple Marketing Aids

*Source: Betty Eshleman, Eshleman Fruit Farm*

The Ohio Apple Marketing Program continues to make available two popular apple marketing aids. A market handout features 18 of *Ohio's Favorite Apples and Their Uses* on the front-side and favorite apple recipes on the back-side. A display box of 500 handouts costs \$15 (including shipping and handling). To view the display box and handout, click on:

[http://www.ofbf.org/oamp/oampwebengine.nsf/\\$LookupFileType/pa040023web.jpg/\\$File/pa040023web.jpg](http://www.ofbf.org/oamp/oampwebengine.nsf/$LookupFileType/pa040023web.jpg/$File/pa040023web.jpg).

Attractive, durable metal signs, measuring 24 by 36 inches, are adorned with a color picture of Ohio's bountiful apples above a writeable surface for your advertising messages. Signs are reasonably priced at \$30. The handouts and signs are available for order from the Ohio Apple Marketing Program, P.O. Box 182383, Columbus, OH 43218. The items are also available for immediate pickup from Glen Hill Orchards, Mount Vernon and Eshleman Fruit Farm, Clyde. You will save shipping charges for the signs by visiting one of these two farms.

## Pest Phenology

Coming Events	Degree Day Accum. Base 50° F
Codling moth 2 <sup>nd</sup> flight peak	1337 - 1977
Apple maggot flight peak	1458 - 1770
San Jose scale 2 <sup>nd</sup> flight peak	1459 - 1805
Spotted tentiform leafminer 3 <sup>rd</sup> flight begins	1532 - 1872
Lesser appleworm 2 <sup>nd</sup> flight peak	1554 - 2292
Oriental fruit moth 3 <sup>rd</sup> flight begins	1613 - 1901
Obliquebanded leafroller 2 <sup>nd</sup> flight peak	1779 - 2117
Redbanded leafroller 3 <sup>rd</sup> flight begins	1812 - 2092

*Thanks to Art Agnello, Cornell University*

## Fruit Observations & Trap Reports

<b>Insect Key</b>	
AM:	apple maggot
CM:	codling moth
ESBM:	eye-spotted budmoth
LAW:	lesser apple worm
LPTB:	lesser peachtree borer
OBLR:	obliquebanded leafroller
OFM:	oriental fruit moth
PTB:	peachtree borer
RBLR:	redbanded leafroller
SJS:	San Jose scale
STLM:	spotted tentiform leafminer
TABM:	tufted apple budmoth
VLR:	variegated leafroller

**Site: Waterman Lab, Columbus**  
 Dr. Celeste Welty, OSU Extension Entomologist

<b>Apple 8/11 to 8/18/04</b>	
Redbanded leafroller	38 up from 27
Spotted tentiform leafminer	2016 down from 2186
San Jose scale	9 down from 40
Codling moth	8.0 down from 17.7
Lesser appleworm	5 down from 13
Tufted apple budmoth	4 down from 6
Variegated leafroller	4 down from 5
Obliquebanded leafroller	0 same as last wk.
Apple maggot (sum of 3 traps)	0 down from 9

**Site: Holmes, Wayne, and Wayne Counties**  
 Ron Becker, IPM Program Assistant

<b>Apple: 8/4 to 8/11/04</b>	
Redbanded leafroller	Holmes: 2 same as last wk.
	Wayne: 5.7 up from 4.3
	Medina: 5.5 up from 3.8

Spotted tentiform leafminer	Holmes: 600 up from 240
	Wayne: 1060 down from 1060
	Medina: 1155 not available
Oriental fruit moth	Holmes: 0 same as last wk
	Wayne: 0 same as last wk
	Medina: 0 same as last wk
Codling moth	Holmes: 4.0 up from 1.3
	Wayne: 18.2 up from 13.8
	Medina: 3.3 down from 5.1
Apple maggot (sum of 3 red ball traps, no lure)	Holmes: 4 down from 4
	Wayne: 0.7 up from 0
	Medina: 0.5 down from 1
Lesser appleworm	Wayne: 2 down from 11

<b>Peach:</b> 8/4 to 8/11/04	
Peachtree borer	Holmes: 3 down from 4
	Wayne: 2 down from 6
	Medina: 0 same as last wk (using mating disruption)
Lesser peachtree borer	Holmes: 0 same as last wk
	Wayne: 7 up from 2
	Medina: 0 same as last wk (using mating disruption)

<b>Apple:</b> 8/11 to 8/18/04	
Redbanded leafroller	Holmes: 8 up from 2
	Wayne: 6.0 up from 5.7
	Medina: 8.8 up from 5.5
Spotted tentiform leafminer	Holmes: 420 down from 600
	Wayne: 282 down from 446
	Medina: 510 down from 1155
Oriental fruit moth	Holmes: 0 same as last wk
	Wayne: 0 same as last wk
	Medina: 0 same as last wk
Codling moth	Holmes: 4.7 up from 4.0
	Wayne: 21.6 up from 18.2
	Medina: 2.4 down from 3.3
Apple maggot (sum of 3 red ball traps, no	Holmes: 2 up from 0

lure)	Wayne: 1 up from 0.7
	Medina: 0.8 up from 0.5
Lesser appleworm	Wayne: 9 down from 2

<b>Peach:</b> 8/4 to 8/11/04	
Peachtree borer	Holmes: 0 down from 3
	Wayne: 3 up from 2
	Medina: 0 same as last wk (using mating disruption)
Lesser peachtree borer	Holmes: 0 same as last wk
	Wayne: 4 down from 7
	Medina: 0 same as last wk (using mating disruption)

**Site: West District; Huron, Ottawa, Richland, and Sandusky Counties**  
 Lowell Kreager, IPM Scout/Technician

<b>Apple</b> 8/10 to 8/17/04	
Apple maggot (3 trap sum)	0.0 same as last week
Codling moth	1.9 down from 2.9
Lesser appleworm	3.4 down from 4.1
Oriental fruit moth	0.3 down from 0.5
Redbanded leafroller	11.7 up from 11.3
San Jose scale	3.8 up from 0.1
Spotted tentiform leafminer	1081 up from 566
<b>Peach</b> 8/10 to 8/17/04	
Lesser peachtree borer	3.2 up from 1.7
Oriental fruit moth	1.3 up from 0.7
Peachtree borer	1.0 up from 0.8
Redbanded leafroller	13.4 down from 14.8

Beneficials include lacewings and lady beetles

**Site: East District; Erie and Lorain Counties**  
 Jim Mutchler, IPM Scout/Technician

<b>Apple</b> 8/10 to 8/17/04	
Apple maggot (3 trap sum)	0.9 down from 1.9
Codling moth	4.7 down from 5.7
Lesser appleworm	6.0 down from 6.6
Oriental fruit moth	5.5 down from 6.1
Redbanded leafroller	5.9 down from 6.2

San Jose scale	0.0 down from 53.5
Spotted tentiform leafminer	900 down from 942
<b>Peach</b> 8/10 to 8/17/04	
Lesser peachtree borer	7.7 up from 5.0
Oriental fruit moth	8.0 down from 13.0
Peachtree borer	10.0 down from 10.3
Redbanded leafroller	4.0 same as last wk.

Beneficials included lacewing eggs and adults, lady beetles, brown lacewings, stigmæiid mites, and orange maggots

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