

# PLANT & PEST ADVISORY

FRUIT EDITION \$1.50

JULY 15, 2003

## Fruit IPM

*Dean Polk, Fruit IPM Agent*



### Peach

✓ **Oriental Fruit Moth (OFM):** All treatments for the second flight should have been applied, with the exception of farms in northern counties, where the second treatment is due around 7/14-16. If these treatments have been made no additional sprays should be needed for OFM unless insect pressure is abnormally high. A rule of thumb would be if trap catches continue to exceed 6 to 8 moths per trap, then continued sprays are justified. Some farms in northern counties still have trap counts between 20 to 50 moths per trap. The first treatments for the third flight will be due in southern counties around July 25-26.

✓ **Tarnished Plant Bug (TPB) and Other Catfacing Insects:** Weedy orchards continue to have higher TPB counts than orchards with sod aisles. Many nymphs are present in weedy orchards, but since these do not readily make it into the trees, they are not a concern at this time. They will be a concern over the next couple of weeks as nymphs mature into adults that can fly into the canopy. Overall injury from TPB is very low.

✓ **Tufted Apple Budmoth (TABM):** We are between TABM generations, so no sprays are needed at this time. We have seen some injury from first brood larvae with a high of about 5% fruit injury. **DO NOT USE OPs for this pest, especially in problem areas.** This would include all farms in and around the Richwood area. The next treatments for TABM will be due during the first week of August.

✓ **Brown Rot, Split Pits and Other Uglies:** Early fruit is showing split pits and signs of brown rot. Some early mummies are also already present. The early moisture has given us a good start for brown rot infections. If you are on a sulfur only fungicide program, that should be dropped at least 2 weeks prior to harvest, in favor of a good pre harvest fungicide program. In some cases it appears that fruit ripening is quite uneven, and that it may take more than a few pickings to get through. A good pre harvest program may be even more important in this situation.

✓ **Peach Scab:** Scab appears to be more common than we would like to see, but is at low levels in most cases. There is practically nothing that can be done about it at this point, except note which blocks have it, and therefore which blocks will deserve a special program next year for the inoculum level that is building up this year.

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## Apple

✓ **Tufted Apple Budmoth (TABM):** Please see peach section above.

✓ **Codling Moth (CM):** We are between CM generations. The first treatments for the second flight should be applied at about 1250DD after biofix (OP's, Carbamates, pyrethroids, and Avaunt), or at 1200DD (Assail, Confirm, Intrepid) (from Penn State research). We will be at 12500DD in southern counties on about 7/18, and in central counties on about 7/22.

✓ **European Red Mite (ERM) and other mites:** Mites are present, but at less than 1 mite per leaf on most farms. One block was noted with high levels and bronzing leaves. **Rust mites** are more common this season, and with them are predatory mites. If you are lucky enough to have this complex, try to cultivate it. Try to skip the use of any harsh insecticides like Lannate or synthetic pyrethroids (Asana or Danitol) which will kill predators and likely build mite populations in the long haul.

✓ **Wooly Apple Aphids (WAA):** WAA are present at significant levels on several farms. WAA populations can often result from continued use of Lannate or pyrethroids. They appear as a white cottony mass that cover pruning wounds and other scar tissue. Diazinon and dimethoate have been shown to give control.

✓ **Dogwood Borer (DWB):** The adult flight may be at a peak in southern counties and approaching a peak in northern counties. There is one generation per year. Treatment should consist of Lorsban applied to the trunk and crown area during the peak period of activity. Treatments are suggested from now and through the next couple of weeks.

✓ **Summer Diseases (Sooty Blotch and Fly Speck):** Summer diseases are starting to become visible in large poorly pruned trees. This season may prove to be severe for the presence of sooty blotch and fly speck. Having well pruned trees with good air drainage is one way to minimize this pest complex. See previous newsletters and the Tree Fruit Production Guide for more management suggestions.

## Blueberry

✓ **Aphids:** Aphid levels are close to what they were last week (present in about 60% of samples). The population density increased slightly since last week, with aphids infesting over 10% of growing shoots in about 20% of our samples.

✓ **Redbanded Leafroller and Other Leps.:** Second generation redbanded leafroller flight is still active and young larvae are present. Larvae are present in about 6% of our samples at low levels. OP's and Lannate are effective. Spintor when used for thrips is also effective.

✓ **Blueberry Maggot (BBM):** BBM maggot adults continue to be captured in very low numbers. A number of traps have captured flies that look very similar to BBM adults. However, instead of a solid "W" pattern on the

wings, the "W" is broken, and looks more like a "U or V" with an additional bar. Several of these flies were recently examined at the Marucci Center and found to be mostly **eastern cherry fruit fly**. If you are spraying for BBM by using the traps, and have a questionable capture, please contact any of us working with this pest.

✓ **Anthracnose :** The disease is present in about 4% of samples. Incubation testing will be started this week in order to survey Bluecrop samples.

## Who's Scouting Your Crop??

This is the second installment about the scouts who are collecting IPM data from orchards and blueberry fields; courtesy of Kathleen Salber, who scouts tree fruit in southern counties:

Small Fruit (Blueberry) – Atlantic, Burlington and Ocean Counties

Amy Lassen - Amy is a resident of Brigantine, NJ. This is her first season working for the Rutgers IPM program. She is a senior at Stockton State College majoring in Environmental Science with a minor in art. In the future, she hopes to pursue a graduate degree in agricultural science. Amy also works part time at Borders Book Store in Mays Landing. Her interests include gardening and painting. Since she now lives close to the ocean, she has taken on the challenge of learning how to surf.

Kathy Stark - Kathy is a resident of Lumberton, NJ. This is her first season working with the Rutgers IPM program. Besides performing her scouting responsibilities, she is acting as a mentor for three summer students who are monitoring traps for the Blueberry Maggot Fly. She holds a B.S. in Biology and a M.A.T. in Education from The College of New Jersey. During the rest of the year, Kathy teaches Biology Labs at Burlington County College. In the past, Kathy taught high school Biology, Chemistry and Earth Science. Her hobbies include gardening and stained glass making. One of her favorite summertime activities is helping family in upstate Pennsylvania cut and bale hay.

Jennifur Wilson - Jennifur is a resident of Columbus, NJ. This is her second season working for the Rutgers IPM program. Besides scouting, she is also working on field experiments at the Research Center in Cream Ridge. In addition, she is attending horticultural classes at Mercer County Community College. In the fall, she will begin her studies in agriculture/animal science at Rutgers, Cook College. She recently has been elected president of the New Jersey FFA (Future Farmers of America). Her principal role as president is to act as a liaison between the state chapters and the Department of Education. Jennifur enjoys various outdoor activities especially fishing and camping.

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## Insect Trap Captures

### Tree Fruit - Southern Counties

Week Ending	LPTB	PTB	OFM	TABM-P	AM	CM	DWB	OFM-A-STLM	TABM
6/6	35		4	32		2		12 13	16
6/13	47	5	3	26		4		3 325	18
6/20	37	5	3	27		8		7 1952	21
6/27	49	3	6	16		2	18	8 2268	15
7/4	48	9	7	25	0	2	18	11 1974	18
7/11	34	6	7	13	0	1	67	7 2784	10

### Northern Counties

Week Ending	LPTB	PTB	OFM	TABM-P	AM	CM	DWB	OFM-A-STLM	TABM
6/6			8.2	6.4		5.6		7.0	6.0
6/13	58.5		12.6	15.0		7.3		10.0	11.4
6/20	31		9	24.6		12.1		326.7	16.8
6/27	4.9	0.0	6.4	19.1		6.0	8.0	932.5	17.3
7/4	2.0	0.5	17.2	21.0		11.6	15.5	1526.4	18.7
7/11	2.7	0.0	12.1	21.1		3.5	30.5	1130.0	15.4

### Blueberry - Atlantic County

Week Ending	CBFW	RBLR	OBLR	SNLH	OB	BBM
6/6	0.08	1.0				
6/13	1.65	2.13				
6/20	0.5	34.5		0.02	14	0
6/27	.13	115.8		.15	165	.01
7/4	0.98	130.3		0.31	1780	0
7/11	.05	89.7		.28	2952	.24

### Burlington County

Week Ending	CBFW	RBLR	OBLR	SNLH	OB	BBM
6/6	2.6	0.3				
6/13	3.36	0.0				
6/20	4.7	0.7		0	0	0
6/27	1.8	17.4		3.3	9.1	.12
7/4	0.8	56.6		5.2	377.5	0.13
7/11	0.0	42.5		.86	1244	.24

## Calendar of Events

**July 24, 25, 26, 27, 2003, Thursday – Sunday** – New Jersey Peach Festival and Gloucester County 4-H Fair will be held at the 4-H Fairgrounds, Rte 77, Mullica Hill, NJ. The complete program for the Fair is now on the website at <http://gloucester.rce.rutgers.edu>.

**August 20 – August 22, 2003** – North American Strawberry Growers Association Summer Tour, Park Inn & Suites, Brandywine Valley, PA and tours S. Jersey and S. PA. Contact: NASGA Business Office at 526 Brittany Drive, State College, PA 16803, phone: 814-238-3364, fax: 814-238-7051 or email: [info@NASGA.org](mailto:info@NASGA.org) or [www.NASGA.org](http://www.NASGA.org).

**September 3, 2003** – Fruit Variety Showcase, Gloucester County. Contact: Jerome L. Frecon at Rutgers Cooperative Extension of Gloucester County at 856-307-6450 ext 1.

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