

# PLANT & PEST ADVISORY

FRUIT EDITION \$1.50

AUGUST 14, 2007



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## Fruit Tree Foliar Analysis

*Jerome L. Frecon, Agricultural Agent*

The first few weeks of August are the times to take leaf samples from your fruit trees. Foliar sampling is generally the most reliable tool for assessing the nutrient status of orchards. It gives you an idea of actual nutrient uptake and can reveal deficiencies that might not have any other symptoms. Foliar sampling also gives you the luxury of confidently doing nothing if all is well.

If nutrient levels in an orchard are known to be stable and fertility management practices are unchanged, sampling every two to three years is sufficient. However, if there are known deficiencies or nutrient management practices are changed, sampling should be done every year until foliar nutrient levels are stable and any deficiencies are corrected.

The samples are taken from shoulder-height, mid-shoot leaves of this year's growth that are fully mature.

Avoid damaged, abnormal and spur leaves as well as those that are not fully expanded. Approximately 10 leaves from all sides of a tree can be taken from 10 trees to give a total sample of 100 leaves. If your orchard is variable you can break it up into logical management units to sample separately if practical. Otherwise, you could take fewer leaves from more trees to get 100 leaves. Different varieties have different critical nutrient levels and should be sampled separately. Try to avoid collecting leaves from trees at the outer edge of the orchard. Put the leaves into a labeled paper bag to keep them clean and bring them to an accredited lab. Standard analysis includes N, P, K, Ca, Mg, and minor elements. If micronutrient excesses or deficiencies are suspected, these can be also analyzed at an extra cost.

Standard plant analyses lists can be purchased for \$24.00 from the Penn State Plant Lab at [http://www.aasl.psu.edu/plant\\_tissue\\_prog.html](http://www.aasl.psu.edu/plant_tissue_prog.html) or by writing the Agricultural Analysis Services Laboratory; Penn State University, Tower Rd., University Park, PA 16862, phone # (814) 863-0841.

This laboratory can be used for leaves from any tree fruit and petioles from grape vines. There are also other commercial laboratories that can be used. □

# Fruit IPM

Dean Polk, Fruit IPM Agent and David Schmitt, Eugene Rizio, and Atanas Atanassov, Ph.D., Program Associates, Tree Fruit IPM

## Peach

✓ **Oriental Fruit Moth (OFM):** Growers in some counties had trap captures above the provisional threshold of 6 moths/trap. Late treatments for OFM (third brood stragglers and 4<sup>th</sup> brood) should be based on trap counts and any presence of flagging.

✓ **Tufted Apple Budmoth (TABM):** Timings are updated in the following table:

TABM Treatment Timings – 2 <sup>nd</sup> Generation				
County Area	Spray Type			
	AM	EM	Intrepid - EM	Bt-EM
Southern	4 <sup>th</sup> 8/17-18	2 <sup>nd</sup> 8/13-16	2 <sup>nd</sup> 8/13-16	2 <sup>nd</sup> 8/13-16
Central	4 <sup>th</sup> 8/19-20	2 <sup>nd</sup> 8/15-18	2 <sup>nd</sup> 8/15-18	2 <sup>nd</sup> 8/15-18
Northern	2 <sup>nd</sup> 8/13-15, 3 <sup>rd</sup> 8/21-23	2 <sup>nd</sup> 8/24-27	2 <sup>nd</sup> 8/24-27	2 <sup>nd</sup> 8/24-27

✓ **Fruit Rots:** Brown rot is showing up on green fruit in late varieties. Rot is beginning on injured or deformed fruit. Little spread to healthy fruit has been seen but humidity is low at present and there have been few rain events. Varieties such as encore and snow giant should be under a pre-harvest brown rot control program using the SI's (Bumper, Elite, Indar) or another chemistry such as Pristine or Gem.

✓ **Stink Bugs:** Stink bug populations remain low but normally increase at this time of year. This is of particular concern for orchards located near grain crops, hayfields or woodlines. Imidan at the high rate, Asana, Baythroid, and Lannate are all effective for stink bugs. Imidan and Asana have a 14 day PHI, Baythroid has a 7 day PHI, and Lannate has a 4 day PHI.

## Apple

✓ **Tufted Apple Budmoth (TABM):** See Peach section above.

✓ **Stink Bugs:** Stink bug damage has become more prevalent in apples over the past few years, particular on late maturing varieties. Like peaches, stink bug is of particular concern if the orchard is located near grain crops, hayfields, or woodlines. Pyrethroids such as Danitol and Baythroid are effective broad spectrum materials, but may cause late season mite flare ups. Intrepid or Spintor used for TABM control will not control stink bugs. Include an effective material such as Guthion if using either of these products.

**Editor's Note:** Note: There is no Blueberry information this week.

## Trap Counts

### Tree Fruit Southern Counties

Week End	STLM	TABM-A	CM	OFM-A	DWB	OFM-P	TABM-P	LPTB	PTB
7/7	126	2	1	3	58	1	2	68	1
7/14	70	0	1	4	9	1	1	75	2
7/21	415	1	2	1	6	2	2	54	1
7/28	502	3	4	3	13	1	4	32	3
8/4	790	2	2	6	28	1	4	10	3
8/11	705	4	4	2	41	1	5	31	4

### Tree Fruit Northern Counties

Week End	STLM	TABM-A	CM	DWB	OFM-P	TABM-P	LPTB	PTB	OBLR
7/7	453.1	3.6	0.8	0.0	10.1	4.3	18.0	2.0	
7/14	635.7	0.9	0.2	1.2	6.9	1.0	21.8	1.9	0.0
7/21	513	0.5	0.9	0.0	6.5	0.8	13.8	1.4	0.5
7/28	849.3	1.1	1.3	0.0	3.1	1.1	8.1	0.7	0.3
8/4	645.7	0.3	0.8	0.0	4.4	0.4	6.3	0.9	0.5
8/11	749.6	1.5	1.4	0.1	0.0	7.5	4.6	0.3	0.5

**Note:** There is no new Blueberry information this week.

## Blueberry

### Atlantic County

Week End	CBFW	RBLR	OBLR	SNLH	OR BEET	BBM
7/7	0.02	13.59	1.94	0.59	569.80	0.31
7/14	0.07	5.70	0.63	0.40	613.88	0.36
7/21	0.09	1.45	1.88	0.13	329.44	0.31
7/28	0.00	1.64	3.7	0.19	62.11	0.31

### Burlington County

Week End	CBFW	RBLR	OBLR	SNLH	OR BEET	BBM
7/7	0.31	3.04	1.79	0.76	605.00	0.24
7/14	0.00	0.75	1.21	0.68	628.50	0.36
7/21	0.00	0.00	1.93	0.41	128.89	0.79
7/28	0.00	0.00	1.00	0.78	55.00	0.73

## Fruit Variety Showcase

Wednesday, September 5, 2007

4:00 – 9:00 p.m.

Office of Government Services

1200 N. Delsea Drive

Clayton, NJ 08312

For discussion and the exhibition of peach, nectarine and wine grape varieties on Wednesday, September 5, 2007 in the auditorium of the Office of Government Services, 1200 N. Delsea Drive, Clayton, NJ.

On display will be varieties harvested August 1 thru September 5 from variety test blocks. Also, a discussion of current evaluative research will be held throughout the meeting. Please contact Jerome L. Frecon, 856-307-6450 ext 1 or check website for further information: <http://gloucester.rce.rutgers.edu>.

## Calendar of Events

**August 21, 2007** – 2007 Succeeding with Cabernet Franc – 9:00 a.m. – 4:30 p.m. at Berks County Extension Office, 1238 County Welfare Road, Suite 110, Berks County Ag Center, Leesport, PA. This seminar offers insight into making the varietal which many believe will come to preeminent red wine in the Eastern US. Any winegrower interested in this varietal should take advantage of this opportunity. Contact Mark Chien at Penn State at 717-394-6851.

**September 5, 2007 – Fruit Variety Showcase** – 4:00 – 9:00 p.m. in the auditorium of the Gloucester County Office of Government Services, 1200 N. Delsea Drive, Clayton, NJ 08312. There will be exhibitions and discussions of peach, nectarine and wine grape varieties. For more information, please contact Jerome L. Frecon at 856-307-6450 or [Frecon@aesop.rutgers.edu](mailto:Frecon@aesop.rutgers.edu) or check website: <http://gloucester.rce.rutgers.edu>.

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**Pesticide User Responsibility:** Use pesticides safely and follow instructions on labels. The pesticide user is responsible for proper use, storage and disposal, residues on crops, and damage caused by drift. For specific labels, special local-needs label 24(c) registration, or section 18 exemption, contact RCE in your County.

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