



Vermont Apple IPM News

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Time for Leaf Analysis -- As you know, leaf analysis is not my area of expertise. However, I do know it is *real important* to conduct a leaf analysis of the various blocks of your orchard. **July 20 through August 20th** is the time to collect the foliar samples. Analysis is available through the UVM Agricultural and Environmental Testing Laboratory (802/656-3030 or 800/244-6402). Instructions are enclosed in this mailing or can be found on the web at: <http://orchard.uvm.edu/uvmapple/hort/InstructionsForAppleLeafSampleCollection.pdf>

Survey Results - You may remember the quick survey that I included in the July 5th issue of this newsletter. I sincerely thank those growers who took the time to fill out the survey. So far, I have received 12 responses. *It is not too late to send in information about your orchard.* Please take a few minutes and fill out the last page of this newsletter and mail/email it to me. I will summarize responses in the next issue of the newsletter.

Disease Management - It is one of those growing seasons where fungicides will probably need to be applied approximately every 2 weeks if the downpours which reduce residues continue. As a reminder, the cultural practice of opening up your trees by summer pruning will help disease management by allowing for better penetration of sprays and sunlight (which will help to reduce humidity and moisture within the canopy).

Arthropod Management -

Codling Moth - If codling moths are a problem in your orchard, the optimal time to begin to treat the second generation is 1260 - 1370 Degree Days (DD) (base 50F) after the initial trap captures in the spring.

As of July 23, the following DD (base 50F) had accumulated from the first trap capture at these sites:

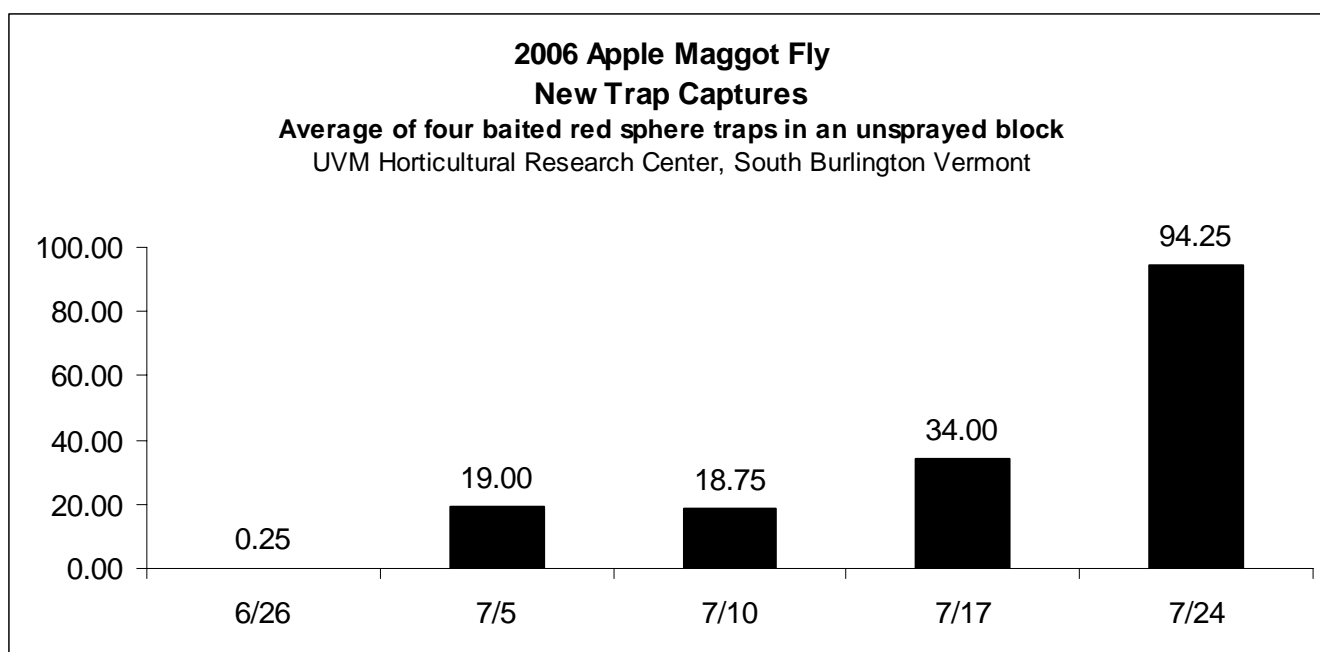
- ◆ UVM Hort. Res. Center = 1136 DD from May 17 (biofix)
- ◆ Shoreham = 1079 DD from May 25 (biofix)
- ◆ Dummerston = 1064 DD from May 28 (biofix)

European Red Mites - In UVM monitored blocks, mite populations remain low. Hopefully, you are also seeing low populations. Threshold for July 16-July 31 = 80% of the middle-aged terminal leaves with motile mites. Dr. Art Agnello of Cornell University recently gave the following advice regarding pesticide options for European red mites (ERM) and two-spotted spider mites (TSSM): *“Zeal and Kanemite are good options to keep in mind if treatment is needed; Acramite tends to be more effective against TSSM than ERM, and Nexter works better against red mites than it does on two-spots, but the main advice is to get out there and look at your foliage ”*

Leafminers - Second generation thresholds are: 50 mines/100 McIntosh leaves; 100 mines/100 Non-McIntosh leaves. Again, in the blocks we have monitored, we have seen very few leafminer mines so far this year.

Green Apple Aphids - The aphids we have observed in monitored blocks were dead from predation by natural enemies !! An insecticide is warranted if more than 50% of vegetative terminals are infested and predators are present on less than 20% of infested terminals OR 10% of fruit have honeydew or aphids

Apple Maggot Flies (AMF) - Flies are active in orchards. At the UVM Hort. Res. Center, we reached threshold levels in our managed orchards last week. The action thresholds are an average, cumulative trap capture of 2 AMF for non-baited spheres and 5 AMF for baited spheres. Once the threshold has been reached and an effective insecticide applied, trap captures can be ignored for 10-14 days if there is sufficient protective residue on the tree. After this period, clean traps and begin checking to determine if threshold trap captures are again reached. The following graph shows the trap captures in a non-sprayed block at the UVM Hort. Res. Center. You can see the jump in AMF this past week !!



Looking Ahead... What can we expect to see in the near future?

The following two charts give where we are in terms of accumulated degree-days (base 50F) from Jan. 1 and what arthropod "events" should occur in the near future:

2006 <u>Estimated</u> Degree-Day Accumulation (Base 50F, from Jan. 1) for Selected Vermont Sites ¹				
Date	So.Burlington	Shoreham	South Hero	Dummerston
07/23	1342	1308	1347	1353

¹Degree Days received from Skybit E-Weather Service: <http://www.skybit.com/>

Arthropod 'Events' Based on Degree-Day Accumulation¹	
Pest Event	Estimated DD Base 50 F for Event (from Jan 1)
Redbanded Leafroller, 2nd gen. peak catch	965-1353
Spotted Tentiform Leafminer, 3rd gen. peak catch	1775-2121

¹ Source of Estimated DD (Base 50F) for arthropod pest events: 2006 Pest Management Guidelines for Commercial Tree-Fruit Production. A Cornell Cooperative Extension Publication, Table 14: "Degree-day accumulations (from January 1) corresponding to selected fruit phenology and arthropod pest events." <http://www.nysaes.cornell.edu/ent/treefruit/>

Second Chance to Fill out a Quick Survey on How Things are Going in Your Orchard — Thank you

It does not look like I will be able to visit many orchards this growing season for a number of reasons but I am very interested in hearing how things are going in your orchard. It would be great if you would email me or take this page, fill it out, and mail it back with some observations and comments. Thank you very much for your input !

1. Crop load ? Light crop ? OK? Too many fruit?

Potential Reason (s) for too light or too heavy a load at your site:

2. Disease management —

A) How would you describe your level of scab:

Foliage: a little ———> a lot

Fruit: a little ———> a lot

Comments:

B) Any fire blight strikes this year? What varieties? Extent of damage?

C) Any other problems with diseases this year so far? Please describe.

3. Arthropod management—

A) What insects/mites are at levels that are of concern to you in your orchard?

B) What insects/mites are at low levels in your orchard so far this season?

C) What have you done which you think has worked well for you ?

4. Additional comments and observations (please continue on next page):

Quick Survey (Any additional comments and observations):

Thank you !

Contact Information: If you have any questions, please call or write:

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