



## **Vermont Apple IPM News**

*Lorraine P. Berkett, IPM Specialist*

*July 24, 2007*

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### ***Invitation to an "Open House" of the Organic Apple Project at the UVM Horticulture Research Center South Burlington***

***Friday, August 17, 1:15 pm—3:30 pm***

Please join us for informal presentations on the various organic horticultural and IPM practices being conducted in the two orchards at the HRC that are part of a long-term study to identify the opportunities and challenges of organic apple production.

**Speakers** will include **Dr. Elena Garcia** from the University of Arkansas, **Dr. Renae Moran** from the University of Maine, and **Dr. Heather Darby, John Hayden, Terry Bradshaw, Morgan Cromwell,** and **Lorraine P. Berkett** from the University of Vermont.

Topics which will be discussed include: site preparation for a new orchard, tree training, top-grafting an established orchard to new cultivars, nutrient management, weed management, disease and insect management, and soil health.

We hope you will be able to join us, rain or shine, for this afternoon of discussion and sharing of information! More information about the Organic Apple Project can be found at: <http://www.uvm.edu/organica>

To help us plan for the event, **please RSVP** by sending a quick email **by August 10** to Sarah Kingsley-Richards at [skingsle@uvm.edu](mailto:skingsle@uvm.edu) if you plan to attend.

**Directions** to the UVM Hort. Res. Center, South Burlington: From the south: driving north on Rte 7 (Shelburne Rd), take a right onto Green Mountain Dr. (between the Jeep and Toyota dealerships). Drive up Green Mountain Dr. until you see the sign for the entrance to the UVM HRC (on right side of road, just beyond curve). From the north: From I-89, take exit 13 onto I-189. Take left onto Rte. 7 south (Shelburne Rd). Take a left onto Green Mountain Dr. (between the Jeep and Toyota dealerships). Drive up Green Mountain Dr. until you see the sign for the entrance to the UVM HRC (on right side of road, just beyond curve).

***Hope to see you at the "Open House" !***

## ***Quick Disease Management Update***

**Flyspeck** - Suffice to say, this is the time to manage summer diseases. High relative humidity favors disease development. Optimum temperatures for pathogen growth are between 60 F to 75 F, making warm, humid summer nights ideal for both sooty blotch and flyspeck development. Please see the table below for some fungicide options to manage these summer diseases.

Table 1. Fungicides for management of sooty blotch and flyspeck. Protection is gone when either the days of protection or amount of rain necessary for wash off, whichever comes first, have been met. (Based on tests by D. Rosenberger)

<u>Treatment (rate/100 gal.)</u>	<u>Days of protection</u>	<u>Rain (in.) to wash off</u>
Topsin M 70WP or WSP (3 to 5 oz) + Captan 50 WP (1 lb)	21	2
Flint 50 WDG (.67-.8 oz)	21	2
Sovran 50 WG (1-1.6 oz)	21	2
Pristine (5 oz)	21	2
Captan 50 WP (2 lb)	14	2
Ziram 76 WP (1.5 lb)	14	2
Captan 50 WP (1 lb)	10	1.5
Ziram 76 WP (1 lb)	10	1.5

Source: 'Summer Diseases,' by D. Cooley, in Scaffolds, July 23,

## ***Quick Update of Degree Day Accumulation for Arthropods:***

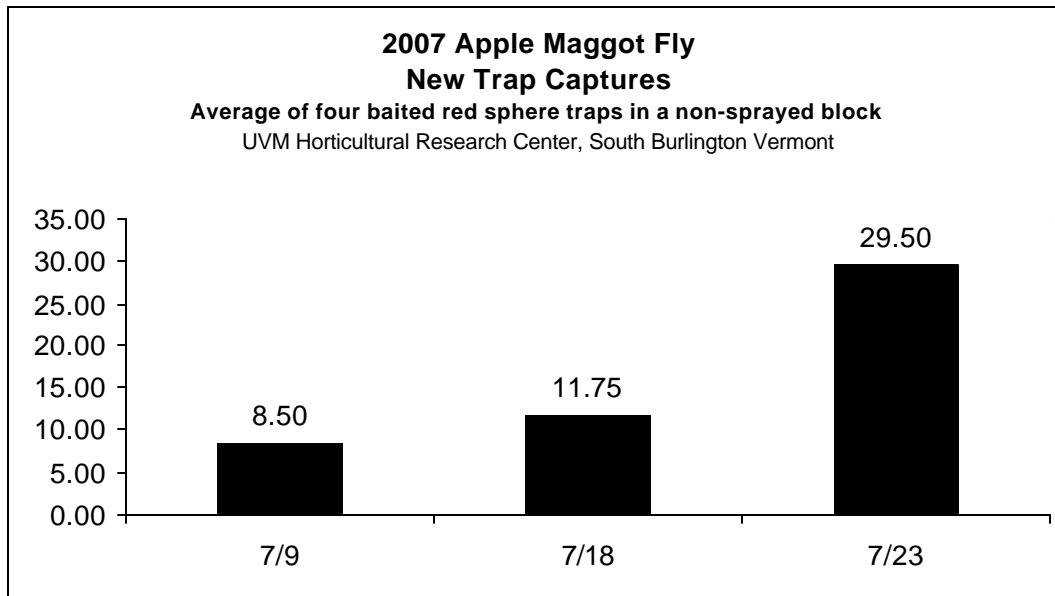
**Codling Moth** - As of July 23, we had reached the following DD accumulation (base 50F):

- ♦ UVM Hort. Res. Center = **1015 DD** from May 14 (biofix)
- ♦ Shoreham = **956 DD** from May 24 (biofix)

The time to manage the second generation of CM is 1260—1370 DD from the biofix. It is predicted that 1260 DD will be reached at the HRC around Aug. 1, and later in Shoreham.

**Obliquebanded Leafroller** - The biofix at the UVM HRC for this insect was on June 11. As of yesterday morning we had accumulated **1049 DD** from the biofix which indicates that egg hatch is 100% complete (950 DD) at this site.

**Apple Maggot** - As indicated in the graph below, we have seen a jump in apple maggot trap captures over the past week. Cumulative Trap Capture Thresholds: 5 per baited trap; 1 per non-baited trap.



**Arthropod Activity to “Expect” based on Degree Days:** The following are the estimated degree day accumulations (Base 50F) from January 1, 2007:

**2007 Degree Day Accumulation for Arthropod Pests**

2007 <b>Estimated</b> Degree-Day Accumulation (Base 50F, from Jan. 1) for Selected Sites				
Date	UVM HRC South Burlington Chittenden Co. Elev. 71 M	Shoreham Addison Co. Elev. 107 M	South Hero Grand Isle Co. Elev. 54M	Dummerston Windham Co. Elev. 171 M
7/21	1169	1169	1175	1224

## 2007 Guide to Arthropod Pest Events Based on Degree-Day Accumulations<sup>1</sup>

Pest/Phenology Event	Estimated DD Base 50 F (Jan 1)
STLM - 2nd gen. peak catch	861-1217
RBLR - 2nd gen. peak catch	965-1353
OBLR - 1st catch, 2nd summer brood	1528-1836
STLM - 3rd gen. peak catch	1775-2121

<sup>1</sup> 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/>

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

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