



**Vermont Apple IPM Alert**  
**Lorraine P. Berkett**  
**July 28, 2009**

**REMINDER:**

**August 13, 2009 -- Please Mark Your Calendars --** There will be presentations and a tour of the organic apple orchards at the UVM Hort. Res. Center in South Burlington. This event is co-sponsored by NOFA-VT and the OrganicA Project. What has been learned about organic apple production will be discussed. Discussion and tour will be from **2:00 pm - 5:00 pm**. Details are at: [http://www.nofavt.org/upcoming-event-details.php?e\\_id=1819](http://www.nofavt.org/upcoming-event-details.php?e_id=1819) [Cost: \$10 for NOFA members, \$15 for nonmembers] *Hope to see you there !*

**Arthropod Development:**

The following are the **estimated degree days** that have accumulated since Jan. 1, 2009 at five sites around the state and the expected arthropod development associated with the degree days: The seasonal record of estimated degree days from **Skybit E-Weather Service** can be found at: <http://orchard.uvm.edu/uvmapple/pest/insects/2009DDAccumulationforArthropods.html>

**2009 Degree Day Accumulation for Arthropod Pests**

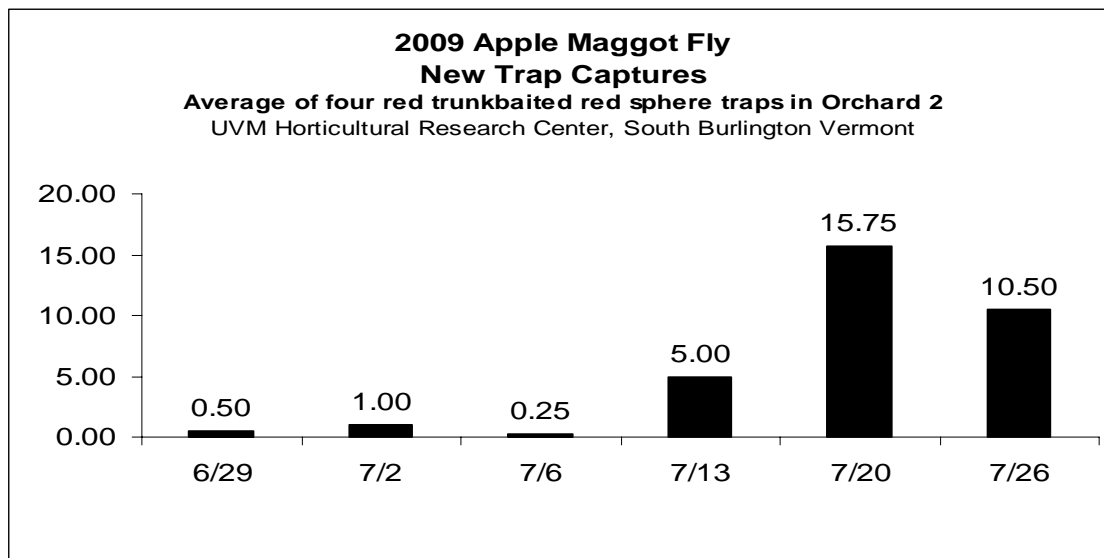
2009 <b>Estimated</b> Degree-Day Accumulation (Base 50F, from Jan. 1) for Selected Sites					
Date	UVM HRC South Burlington Chittenden Co. Elev. 71 M	Shoreham Addison Co. Elev. 107 M	South Hero Grand Isle Co. Elev. 54M	Dummerston Windham Co. Elev. 171 M	East Dorset Bennington Co. Elev. 408 M
7/18	1015	1034	1011	1057	880
7/25	1142	1160	1138	1178	988

## 2009 Guide to Arthropod Pest Events Based on Degree-Day Accumulations<sup>1</sup>

Pest/Phenology Event	Estimated DD Base 50 F (Jan 1)
AMF - 1st capture	750-1034
OFM - 2nd gen. 1st adult catch	784-1020
RBLR - 2nd gen. peak catch	770-1070
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

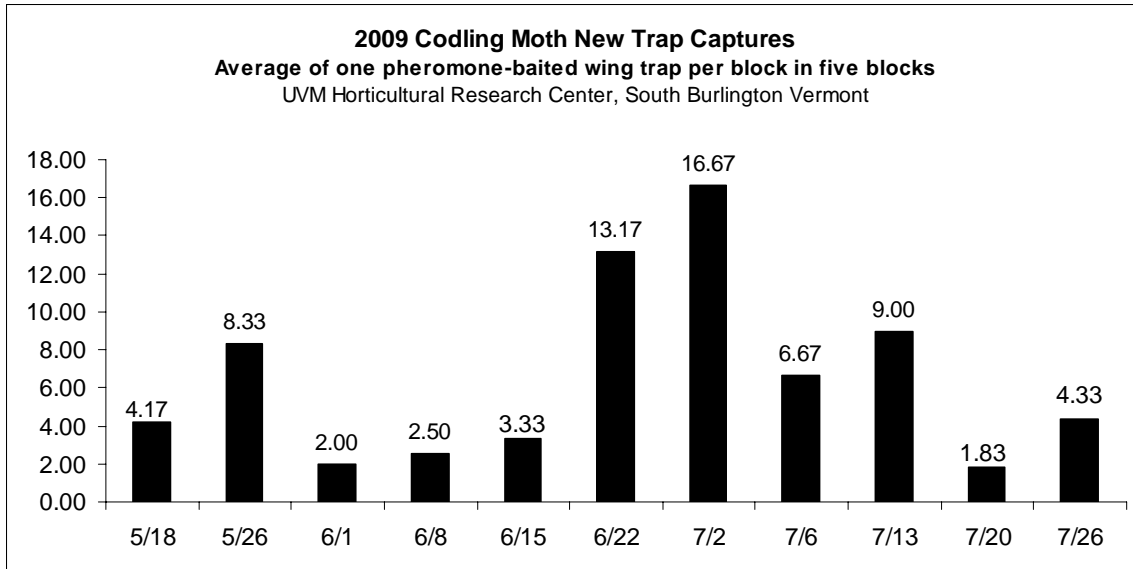
<sup>1</sup> [2009 New England Tree Fruit Management Guide](#)

**Apple Maggot Flies** -- The following graph shows the pattern of fly captures in one of the orchards at the UVM Hort. Research Center. This period in the growing season is usually the time for peak adult immigration into managed orchards and, given the moist soil conditions, they should be successful in emerging from overwintering sites in the soil.

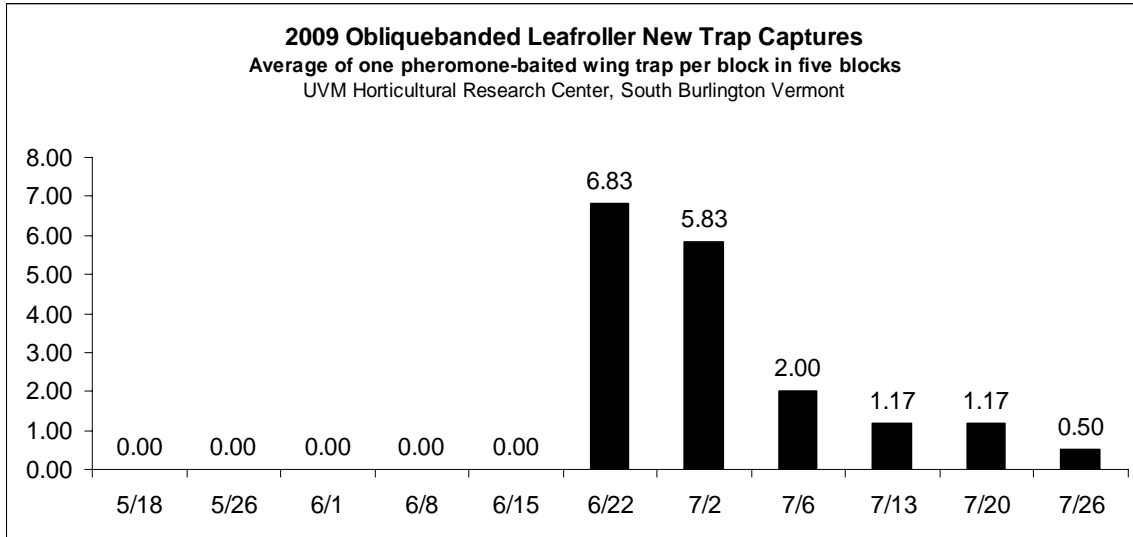


**Codling Moth DD Update** - As of July 26, we had accumulated 1006 DD (base 50F) from the May 11 which was the biofix at the UVM HRC. Please see page 118 of the 2009 New England Tree Fruit Management Guide for information on optimal timing of Codling Moth insecticide options. For larvicides, the period between 1260 - 1370 DD is an optimal time for management. If using growth regulators, the optimal timing for the second generation is earlier (i.e., 1000 degree days).

Pattern of CM trap captures at the UVM Hort. Res. Center:



**Obliquebanded Leafroller** -- The biofix at the UVM Hort. Res. Center for when moths started to be captured in pheromone traps was June 22. On Monday of last week (July 20) 696 DD (base 43F) had accumulated from that biofix. At 600 DD from the biofix, it is estimated that 50% of eggs have hatched and it is the time when the earliest larvae are at a stage that is large enough to be seen while scouting. A scouting procedure is outlined on page 80 of the 2009 New England Tree Fruit Management Guide. The threshold for intervention is 3% infestation sites. If you are under this threshold, it is recommended that you scout again in 3-5 days (or when approximately an additional 100 DD have accumulated). As of this Monday, July 27, 887 DD had accumulated so we are past the optimal time to scout. Below is a graph of trap captures at the UVM HRC,



**European Red Mites** - Pages 83 and 84 of the 2009 New England Tree Fruit Management Guide have sampling charts and thresholds for July and August, respectively. The threshold for July is 5 motile mites per leaf and 7.5 motile mites per leaf for August. If you do not want to count mites, another guideline for intervention for the remainder of July and the first half of August is if 80% of leaves have motile mites.

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 Where trade names or commercial products are used for identification, no discrimination is intended and no endorsement is implied. Always read the label before using any pesticide. **The label is the legal document for the product use. Disregard any information in this newsletter if it is in conflict with the label.**

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