



## IPM News

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### 2004 Degree Day Accumulation for Apple Scab Ascospore Maturity

2004 Estimated Degree-Day Accumulation (Base 32F, from McIntosh Green Tip) for Selected Sites					
	UVM HRC South Burlington Chittenden Co. Elev. 71 M	Shoreham Addison Co. Elev. 107 M	South Hero Grand Isle Co. Elev. 54M	Bennington Bennington Co. Elev. 370 M	Dummerston Windham Co. Elev. 171 M
Date	4/20 (GT)	4/20 (GT)	4/20 (GT)	4/16 (GT)	4/17 (GT)
5/22	757	780	742	850	901

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

### Disease Management Update

**Apple Scab** - Conservatively, once 900 DD have accumulated, the final ascospore release in commercially managed orchards is predicted when there is a daytime, soaking rain of at least 0.1 inch and the temperature is at least 50 F during the wetting period. Two of the sites above have just about reached or surpassed 900 DD. However, it will take about two weeks for any lesions to develop from the last primary infection period so *it is not yet time to reduce fungicide use*. As mentioned in last week's *IPM Alert*, now is a good time to check cluster leaves and the oldest 3-4 leaves on terminals for scab lesions that may have developed from the earlier infection periods. If they are present, the last ascospore release loses significance since the lesions are producing conidia which can infect susceptible tissue in the orchard. With all the showers we have had, the potential for ascospore infection has been great this year.

In general, this year may turn into "The Year of the Pathogens" since wet and warm conditions have been favorable for the pathogens of **fire blight**, **cedar apple rust**, **blossom end rot**, **moldy core**, etc. Wet, saturated soils also are favorable for *Phytophthora* root rots. Let's hope instead that it will be "The Year of Excellent Disease Management" !!

## Label Restrictions for Sovran:

Please note that the label states: "Do not make more than two (2) sequential applications of Sovran." Please make this change on page 84 of the 2003-2004 New England Apple Pest Management Guide and in subsequent related text on pages 131-144.

## Arthropod Management Update

**Plum Curculio** - As mentioned in the last *IPM Alert*, we are tracking degree-day (DD) accumulation from 95% Petal Fall at 5 sites around the state to determine when 340 DD (base 50F) is reached. At that DD, it is estimated that 40% of oviposition is complete and PC are no longer moving into the orchard. Any PC that are within treated trees will have been killed and no additional sprays are necessary if 340 DD accumulate within 10-14 days after the last insecticide spray. The following table gives the estimated DD that have accumulated:

2004 <u>Estimated</u> Degree-Day Accumulation (Base 50F, from 95% McIntosh Petal Fall) for Selected Vermont Sites <sup>1</sup>					
	So. Burlington (PF=5/17)	Shoreham (PF=5/14)	South Hero (PF=5/19)	Bennington (PF=5/15)	Dum- merston (PF=5/15)
05/22	63	118	36	92	108

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

**Codling Moth** - As you may know, there is a Michigan Degree Day (DD) model that helps to identify the most effective time to manage this insect. The model uses the first capture of codling moths as a 'biofix' from which DDs (base 50F) are accumulated. It is predicted that 3% egg hatch occurs when 250 DDs have accumulated. When population pressure is high, a spray applied at this time should be effective, followed by another application 10-14 days later. If pressure is not severe, one spray applied at 360 DD after the biofix date should manage the first generation population. We will keep you updated on our monitoring efforts.

### **Other Arthropods to be Monitored at this point in the growing season ....**

**Leafminers** - sap-feeding larval mines on undersides of leaves

**Leafhoppers** - presence of nymphs and adults on leaves

**European Red Mites** - scout middle-age fruit cluster leaves

Please see the "2004 IPM 'Quick' Summary for Monitoring Apple Arthropod Pests" for thresholds.

## **Contact Information**

A Commitment to Excellence and Service:

If you have any questions or want to arrange for an orchard visit regarding your concerns, please call or write.

For horticulture questions contact:

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