


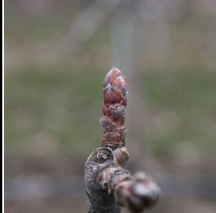
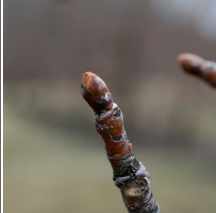




## Healthy Fruit, Issue 1, April 1, 2008

### Current DD accumulations

Location	Base 43F	Base 50F
Belchertown, UMass CSO observed (01/01/08 – 03/31/08)	67	19
Belchertown, UMass CSO SkyBit (01/01/08 – 03/31/08)	NA	NA

### Current bud stages

Location	McIntosh apple	Honeycrisp apple	Bartlett Pear	PF-14 Jersey peach	Cavalier sweet cherry
Belchertown, UMass CSO (04/01/08)					
	silver tip	dormant	early swollen bud	early swollen bud	dormant

### Upcoming meetings/events

Date	Meeting/event	Location	Time	Information
April 15	Fruit Team Twilight Meeting	<b>Cider Hill Farm</b> , 45 Fern Ave. Amesbury, MA	5:30 PM	Jon Clements 413-478-7219
April 16	Fruit Team Twilight Meeting*	<b>Alyson's Orchard</b> , 615 Wentworth Rd., Walpole, NH	5:30 PM	George Hamilton 413-478-7219
April 17	Fruit Team Twilight Meeting**	<b>Steere Orchard</b> , 150 Austin Ave. Greenville, RI	5:30 PM	Heather Faubert 401-874-2967

Two pesticide re-certification credits offered at each Fruit Team Twilight meeting. You must be on time to receive credit

\* In cooperation with University of New Hampshire and University of Vermont Extension

\*\* In cooperation with University of Rhode Island Extension

## ***The way I see it***

Well, like the progress of this spring — in fits-and-pieces — so goes this first edition of Healthy Fruit. Welcome to a new growing season. It's been slow to start, but be assured it will be here real soon. A couple things on my mind. First, twilight meetings week after next, covering the three corners of southern New England. For starters, we will be up in Amesbury, MA at Cider Hill Farm where wind and solar energy projects will be featured. Next day we are up the Connecticut River Valley in Walpole, NH at Alyson's Orchard, a 'destination' orchard, with lodging, social and business events, etc. This is a combined meeting with University of New Hampshire and University of Vermont Extension, so lots of insect and disease management expertise will be on hand. Finally we are down in Rhode Island on Thursday for a joint meeting with Rhode Island Fruit Growers' Association. I know attending these meetings will mean significant travel for many Massachusetts attendees, but I think they will be well worth your while.

Second, the 2008 edition of the New England Tree Fruit Management Guide is available for purchase. You can order it on-line, or we will have copies for sale at the Twilight Meetings. (Hint: you will save \$5 by paying cash [or check] at the Meetings.) I hope you will consider buying a new Guide, for 2008. Admittedly, not everything changes from year-to-year, but having an updated Guide with changes should be one of your BMP (Best Management Plan) checklist items. J. Clements.

## ***2008 New England Tree Fruit Management Guide BUY NOW***

The revised and updated '2008 New England Tree Fruit Management Guide' (2008 NETFM Guide) is available for purchase NOW on the UMass Fruit Advisor (<http://www.umass.edu/fruitadvisor/>). The Guide is a significant effort by Extension and research specialists working in tree fruit in New England, and includes chapters on: integrated crop and pest management; organic tree fruit production in New England; pesticide information; sprayer information; characteristics of crop protectants used on tree fruit; insect, mite, and disease management; weed management; wildlife damage management; nutrient management; and general pest management considerations (including pesticide spray tables) for apples, pears, cherries, peaches, apricots, and plums. Again this year it is based on the Cornell publication '2008 Pest Management Guidelines for Commercial Tree Fruit Production' but with significant modifications for New England. The Guide costs \$40 (including postage), and the website takes credit cards (Mastercard and Visa). Every tree fruit grower should have the updated Guide in their hands for 2008. J. Clements

## ***Key management activities: apple green tip bud stage***

- Copper should be applied to apples, particularly with a history of fire blight. The application should go on no later than the green-tip bud stage to minimize the chance of fruit russetting. It also serves as a protectant fungicide application (comparable to a 'Mancozeb' fungicide) for scab. There are several copper formulations, but from the 2008 Management Guide, options include: Champ Flowable (1-2 qt/100 gal); C-O-C-S (2-4 lb/100 gal); Cuprofix MZ Dispers (3.3-6.6 lb/100 gal; and Kocide 2000 (2-4 lb/100 gal).
- Copper should also be applied to peaches and cherries — for peaches, to prevent leaf curl (must be applied before bud-break), and for cherries, to fight bacterial canker (should be applied before bud-break too). See the 2008 NETFM Guide for application details. Copper is also a good bactericide, helping to control/'keep-at-bay' canker, bacterial spot, etc. on peaches.

## ***TRAC software now available as FREE download***

The New York State Integrated Pest Management's pesticide record-keeping software 'TRAC' is now available as a free download. TRAC requires Microsoft Excel, but it has a lot of built-in information that makes tracking pesticide applications and preparing reports (including central posting for the

Worker Protection Standard) much easier and more efficient. The only caveat is it only has built-in pesticide information ('Chem Table') for products registered in New York, however, you can add chemicals to it manually. You can download the 2008 TRAC software here:

<http://www.nysipm.cornell.edu/trac/downloads/>

There are versions for apples, pears, stone fruit (peach, nectarine, plum), cherries, grapes, and berries. Make sure you download the Manual and read the directions too! Note that if you are running the latest version of Office for Mac (2008), TRAC will not work, because Microsoft disabled Visual Basic Application macros in the newest versions of Office for Mac. (Bad Microsoft!) J. Clements

### ***Pesticide updates***

Here are some of the major pesticide changes/updates for 2008 based on information from the 2008 NETFM Guide, a presentation by Lorraine Los, Fruit Crops IPM Coordinator, University of Connecticut, and the March 24, 2009 edition of Scaffolds Fruit Journal:

- Guthion -- no longer allowed on peaches, nectarines; remaining tree fruit crops include apples, pears, and cherries until September 30, 2012; maximum use rate on apples, 6 lb/acre/year (Guthion 50% Solupak); PHI for apples, 14-21 days depending on rate used; REI of 14 days (apples) BUT 33-44 days (depending on rate) for 'Pick-Your-Own' harvesting. There are also significant new spray drift and buffer zone restrictions -- read the label!
- Imidan 70W-- no changes in 2008 (REI 3 days, PHI 7 days [14 days for P-Y-O], 30 lb maximum season use) but possible changes coming in 2009.
- Indar -- 75WSP being replaced by 2F which includes apple and stone fruits (peach, cherry, plum, nectarine) on label. A Group 3 (SI) fungicide, should be useful in apple orchards with a history of Nova and/or Rubigan use where resistance issues are possible (likely?).
- Assail -- 30SG, new formulation with new stone fruit label as well as apples. Controls a wide array of insects, see the 2008 Guide for efficacy ratings (pages 71-72).
- Delegate (spinetoram) -- control or suppression of leafrollers, leafminers, thrips, psylla, on pome and stone fruit. Group 5 insecticide, similar to SpinTor (spinosad).
- Mustang Max -- a new pyrethroid insecticide effective on a wide range of pests.
- Centaur (buprofezin) -- and IGR (Insect Growth Regulator) for leafhoppers, scale, psylla
- Portal (fenpyroximate) -- an insecticide/miticide for leafhoppers, mites, psylla on pears and apples. Similar to Fujimite, two applications per season allowed.
- Onager 1EC -- miticide, new from Gowan, same a.i. as Savey (hexythiazox).
- Checkmate -- CM-F, and CM-OFM Duel, new mating disruption products from Suterra.
- Isomate CM/OFM TT -- for season-long mating disruption of codling moth, 90 days for oriental fruit moth (manufacturer claim, CBC America).
- New generics from UPI (United Phosphorus Inc., formerly Cerexagri): Bifenture 2EC (bifenthrin, Brigade, pyrethroid); Lambda-Cy 1 EC (lambda-cyhalothrin, Warrior, pyrethroid); Perm-Up 3.2EC (permethrin, Ambush, pyrethroid). And one from Agrilience, Taiga Z (lambda-cyhalothrin).

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