

MaluSim Carbohydrate Model*

**Simulation location: Piney River, VA
(Central Virginia Fruit Growing Region)**

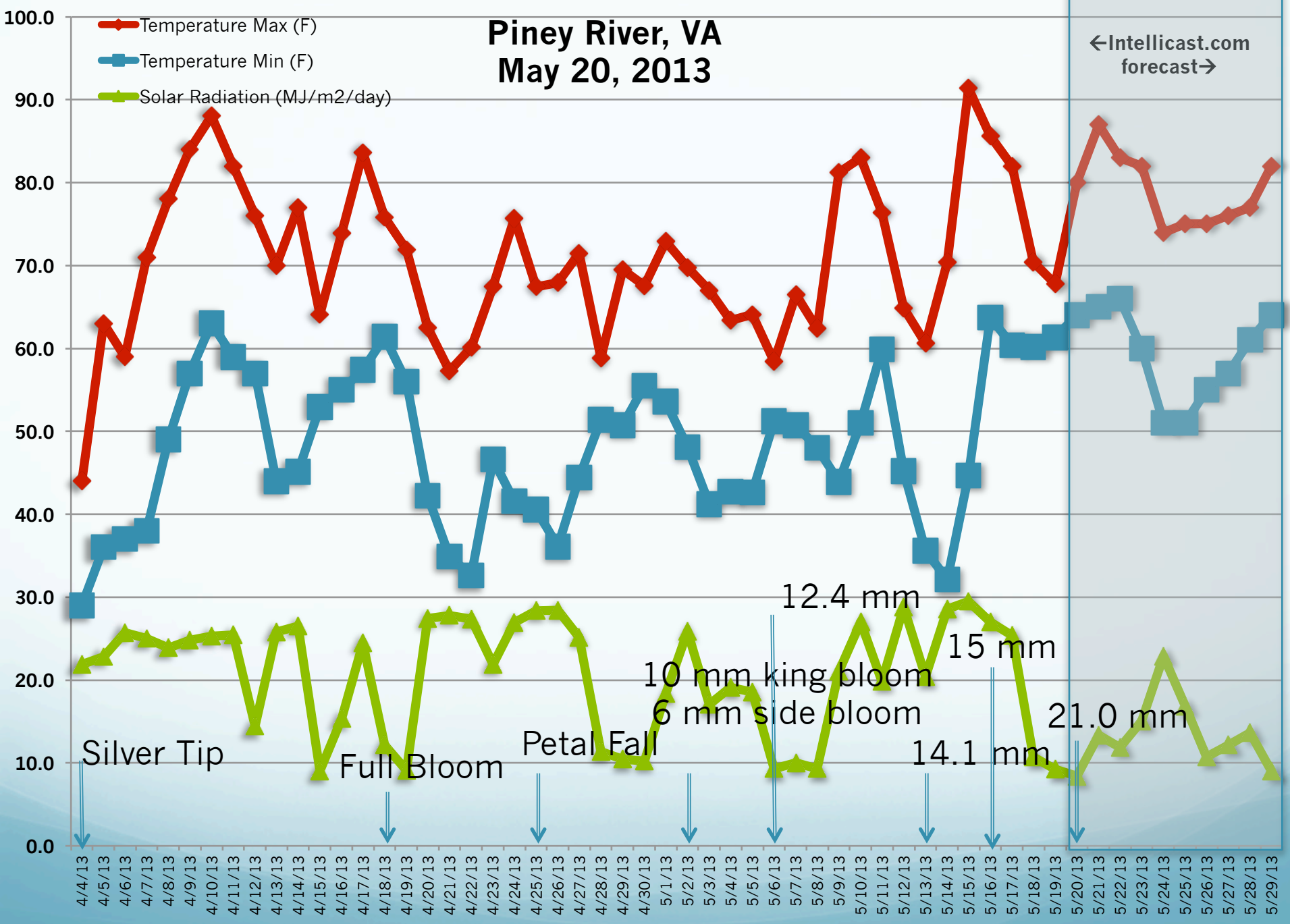
Simulation date: May 20, 2013 9:00AM

Greg Peck

*Developed by Drs. Alan Lakso and
Terence Robinson, Cornell University

Piney River, VA May 20, 2013

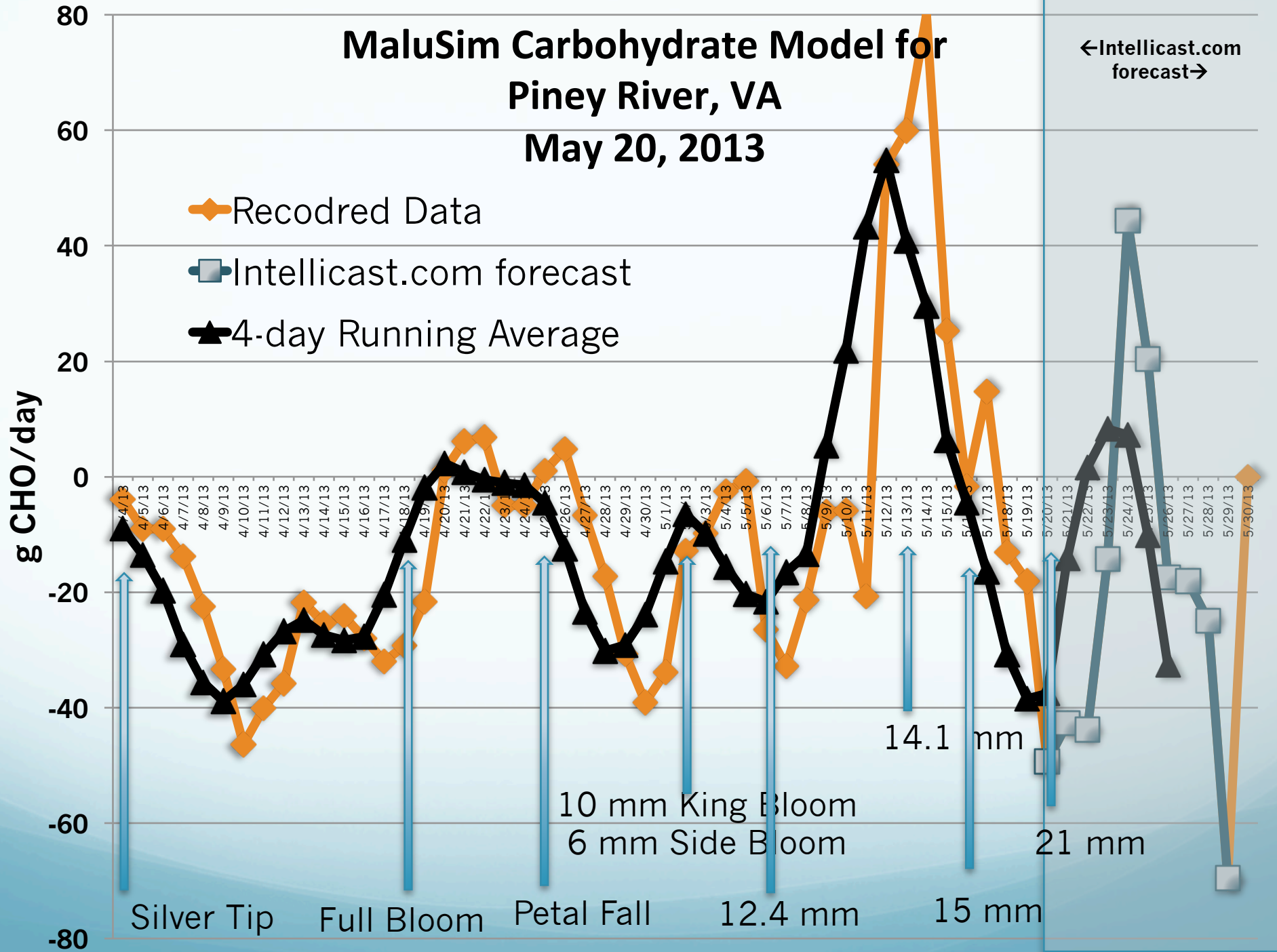
←Intellicast.com
forecast→



MaluSim Carbohydrate Model for Piney River, VA May 20, 2013

←Intellicast.com
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- ◆ Recodred Data
- Intellicast.com forecast
- ▲ 4-day Running Average



Interpreting the MaluSim Model: look for three-to four-day trends

Thinning Index	Recommendation
>20 g/day	Expect little or no response to normal rates of chemical thinners. You will need to thin more aggressively than normal
+ 20 to -20 g/day	Expect normal thinning responses to standard rates of chemical thinners
-20 to -40 g/day	Expect normal to slightly aggressive responses to standard rates of chemical thinners
-40 to -60 g/day	Expect aggressive responses to standard rates of chemical thinners. Consider reducing rates to avoid over thinning
-60 to -80 g/day	Expect very aggressive responses to standard rates of chemical thinners. Reduce rates to avoid over thinning
< -80 g/day	Standard rates of thinners will result in severe over-thinning. Reduce rates by at least 50 percent.

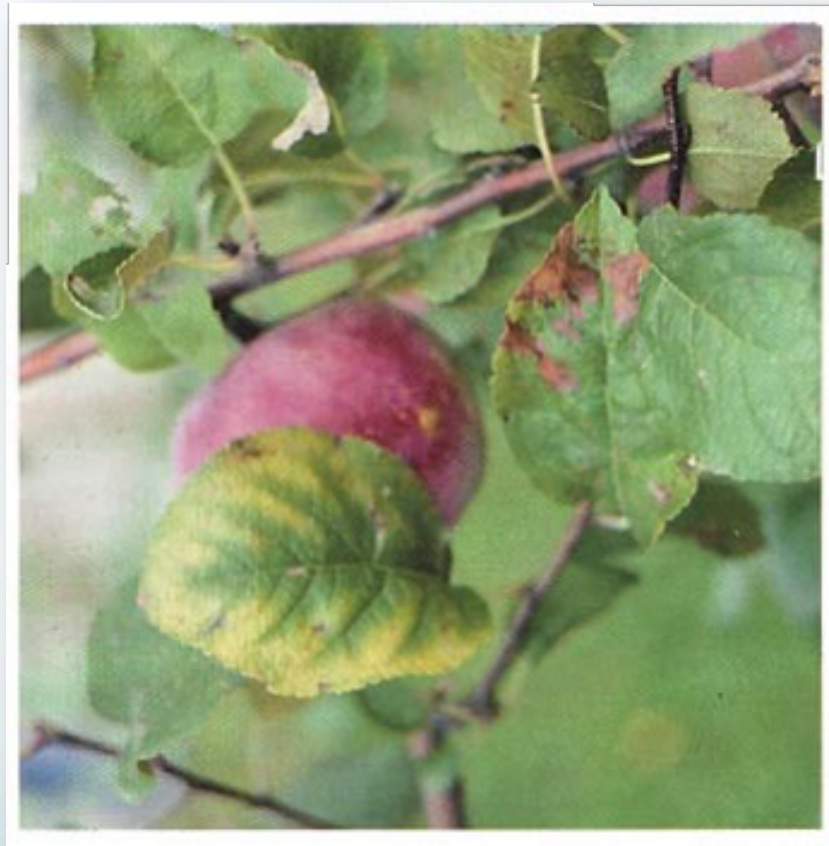
(Table developed by Dr. Steve McArtney (NCSU). Additional input from Drs. Alan Lakso and Greg Peck)

Calcium Recommendations

- Season long, want 20-50 lbs CaCl_2
 - 2-8 lbs CaCl_2 spray
 - For calcium disorder prone cultivars, need higher range
- With greater heat and water stress, increase chance of disorders, as well as phytotoxicity
- Calcium moves into the soil by mass flow
 - Dry soil conditions reduce calcium uptake

Magnesium Recommendation

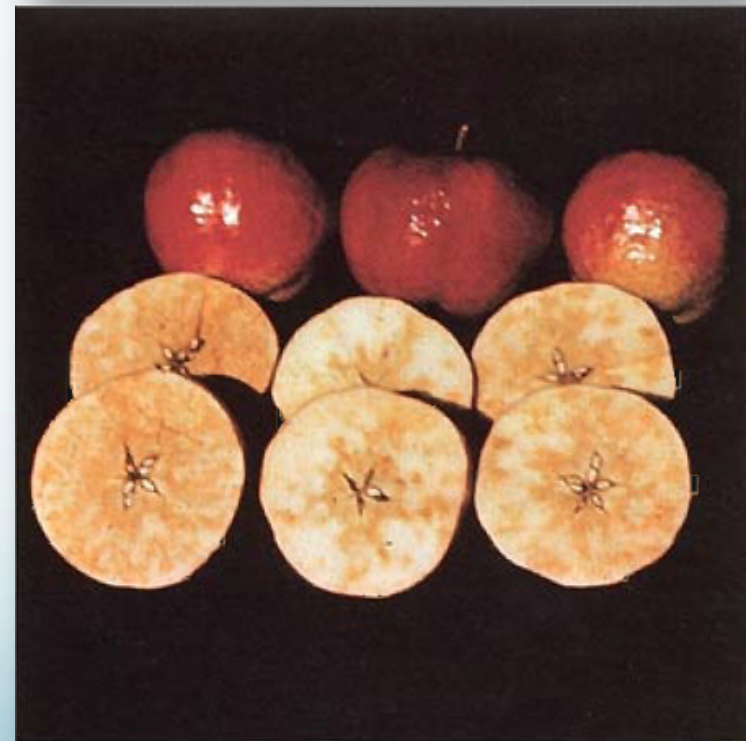
- 1-3 applications of Epsom Salts at 15 lbs/100 gal at petal fall, 1st and 3rd cover
- Epsom salts can be tank mixed with Solubor but not with calcium chloride



Boron Recommendations

Foliar Applications

- Many Virginia orchard soils are low in boron
- Foliar application of 3-4 lbs of Solubor at petal fall or first cover usually helps to correct low boron levels
- You can also split the Solubor applications into two sprays, e.g., petal fall and 2nd cover or 1st and 3rd cover
- Boron may precipitate out of solution when mixed with calcium chloride



Boron deficiency—apple

Tree fruit extension and outreach



We are a collaborative team of Extension specialists and agents who deliver year-round programming for the Commonwealth's tree fruit producers. We provide our stakeholders with the latest research-based information for making sustainable management decisions on their farms. We also develop resources for beginning farmers and home fruit enthusiasts.

Our information is disseminated through this website, Extension publications, workshops, on-farm meetings, and one-on-one conversations.

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http://www.wmra.org/post/stink-bug-invasion-mon-3pm-UX6 I9h754As.facebook

The Stink Bug Invasion (Mon 3pm) wmra.org

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Past updates: disease | entomology | horticulture

Commercial tree fruit production updates

05/01/2013 Apple scab/rust infection period Apr 29-30, and fire blight update

From: Tree Fruit Disease Update

We recorded our third apple scab infection period Apr 29-30, with 18 hr wetting at 50-56". This was also a likely quince rust and cedar-apple rust infection period.

FIRE BLIGHT: Below is the updated graphic from the...

04/29/2013 Apple scab infection period April 28-29

From: Tree Fruit Disease Update

At our AREC we recorded split wetting periods totalling 18 hours starting at 54" at 11 AM Apr 28 and

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2013 Spray Bulletin for Commercial Tree Fruit Growers



The Mid-Atlantic Regional Fruit Loop: The Virginia Fruit Page



Table of Contents for 2013 Spray Bulletin

Posted on April 14, 2013 by gmpeck

The table of contents in the 2013 Spray Bulletin was unfortunately printed with incorrect page numbers. Dr. Chris Bergh has manually updated the 2013 Spray Bulletin Table of Contents so that you can print a copy and insert it into the Bulletin.

We have been told that there are no more printed copies of the 2013 Spray Bulletin. However, the publication can be downloaded as a free pdf by clicking on the link on the Tree Fruit Extension and Outreach website.

Update (April 15): Dr. Alan Biggs still has about 20 copies of the 2013 Spray Bulletin for sale. If you want a copy, send a check for \$14 made out to "West Virginia University" along with your mailing address to Dr. Biggs. He will send you a copy via USPS.

Dr. Alan Biggs
WVU - KTFREC
P.O. Box 609
Keameysville, WV 25430

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Posted in Spray Bulletin | Tagged Spray Bulletin, Tree Fruit Extension and Outreach Website | 1 Comment

Meetings for the Week of April 15

Posted on April 14, 2013 by gmpeck

There will be two commercial fruit grower meetings this week. On Tuesday (April 16) starting at 11:00AM, we will meet at Silver Creek Orchards in Nelson County to review current crop conditions and upcoming management decisions. On Thursday (April 18) at 7:00AM, we will meet at the Alison H. Smith, Jr. AREC for our first breakfast update meeting. Immediately following the breakfast meeting at the AREC...



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- gmpeck on Harvest Maturity Resources
- Annual End of August Apple Maturity Report | Tree-Fruit Horticulture Updates on Harvest Maturity Resources

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