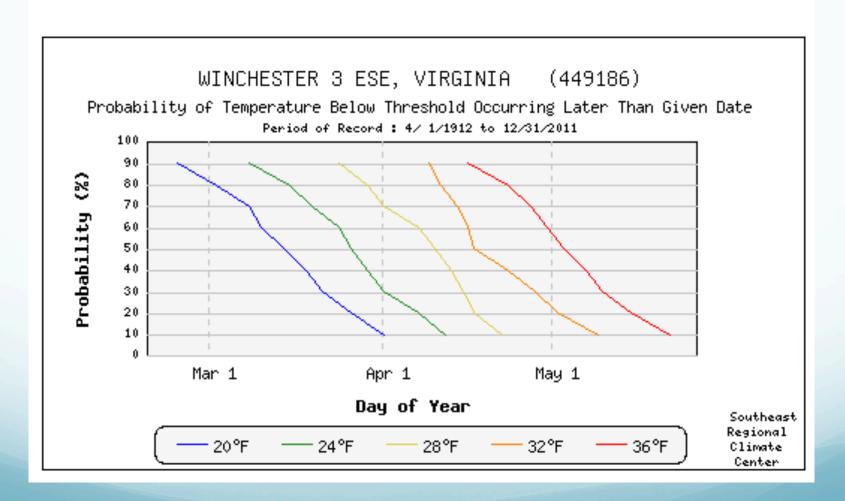
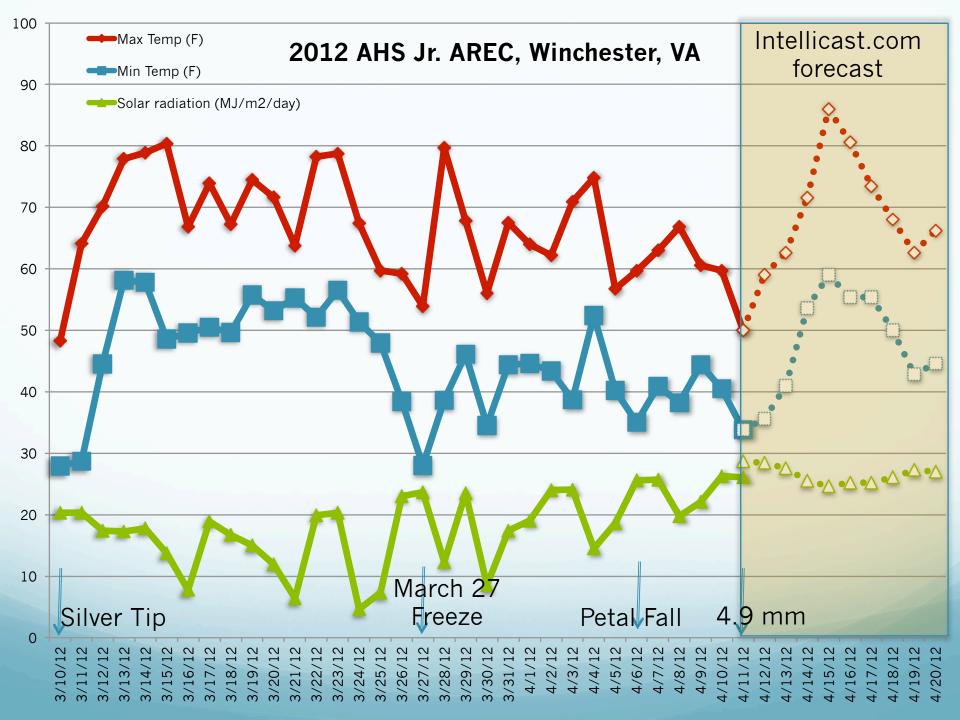
Morning Update Winchester AREC

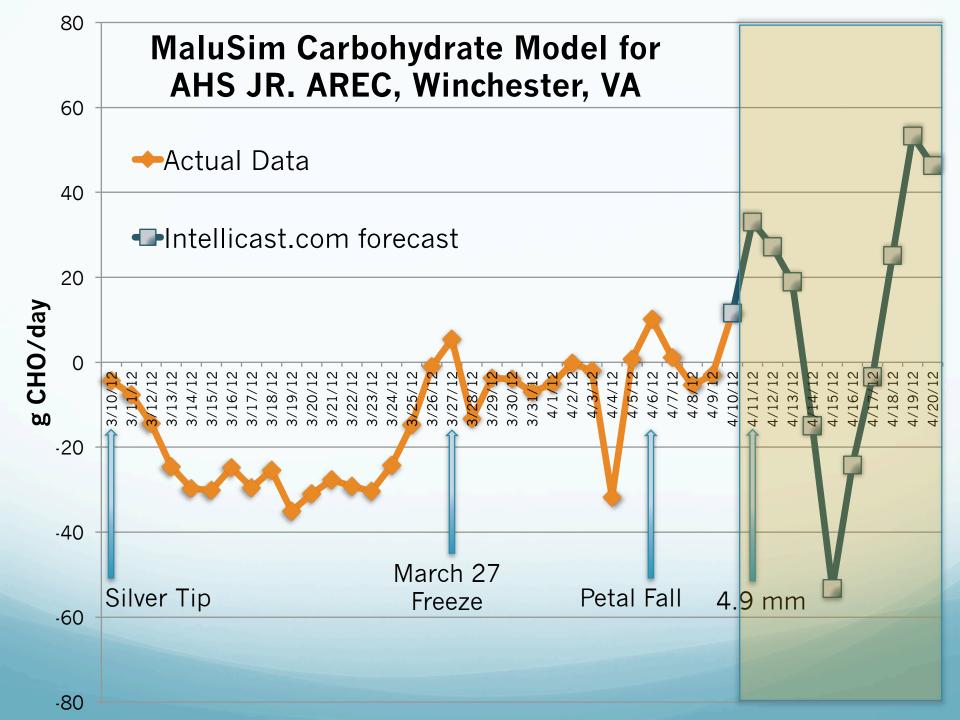
Greg Peck April 12, 2012

WINCHESTER 3 ESE, VIRGINIA

Spring 'Freeze' Probabilities (Jan. 1 - Jul. 31)







Interpreting the MaluSim Model: look for three-day trends

look for three-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			

-20 to -40 g/day

Expect normal to slightly aggressive responses to standard rates of chemical thinners

Expect normal to slightly aggressive responses to standard rates of chemical thinners. Consider reducing rates to avoid over thinning

-60 to -80 g/day

< -80 g/day

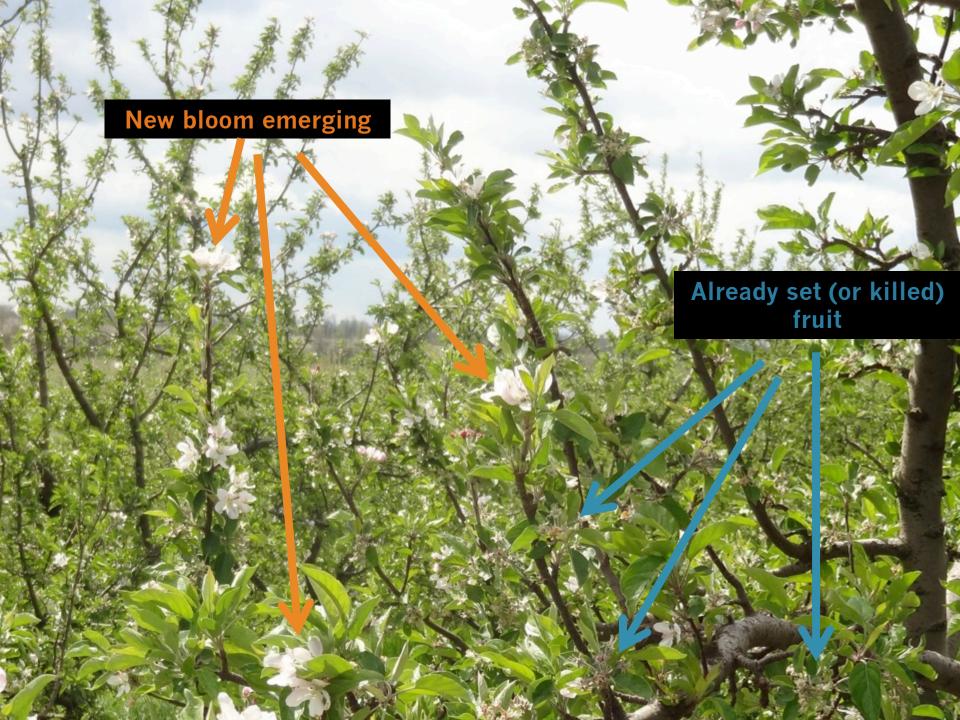
Expect very aggressive responses to standard rates of chemical thinners. Reduce rates to avoid over thinning Standard rates of thinners will result in severe over-

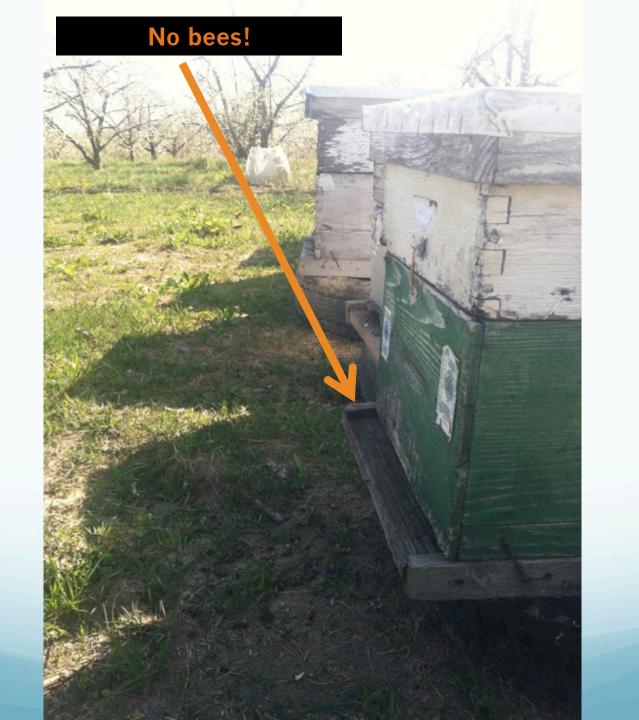
thinning. Reduce rates by at least 50 percent.

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

What a difference a year makes

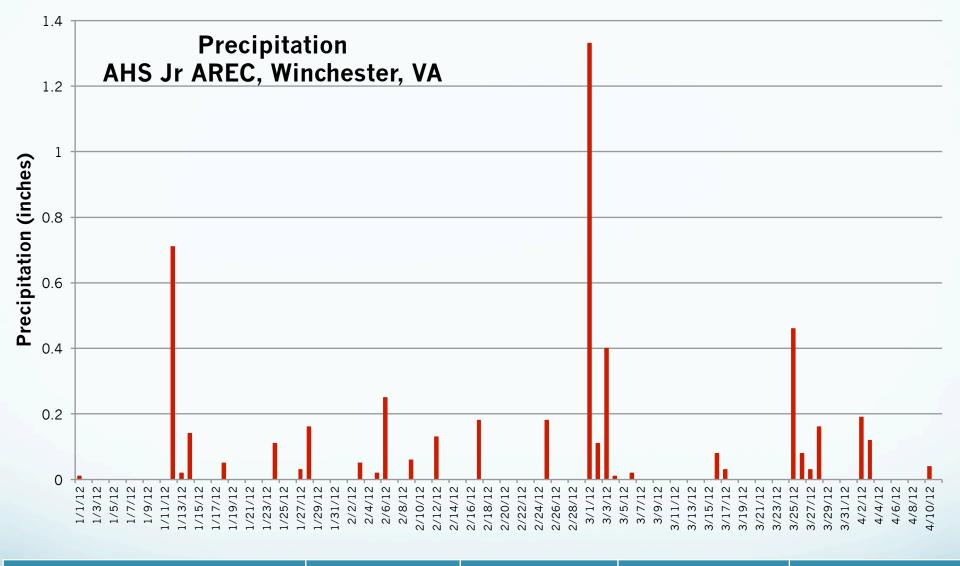
Cultivar	April 28, 2011 Fruitlet size (mm)	April 11, 2012 Fruitlet size (mm)
Golden Delicious	5.6	3.6
Red Delicious	6.0	4.0
Pink Lady	6.3	4.2
Gala	6.5	4.3
Empire	7.1	4.9





Some thoughts on thinning in 2012

- Only need 10-30% of flowers for a full crop
- Ideally, one fruit every other cluster
- Should be able to see effects of frost, similar to testing for thinner application efficacy
- Many king bloom are gone, but clusters still have side bloom
- Earlier thinning (e.g., bloom) results in larger fruit
- 6-BA products (MaxCel, Accel) can increase final fruit size by increasing cell division
- In frosted orchards, where you are trying to thin side bloom reduce rates and don't use adjuvants/oil



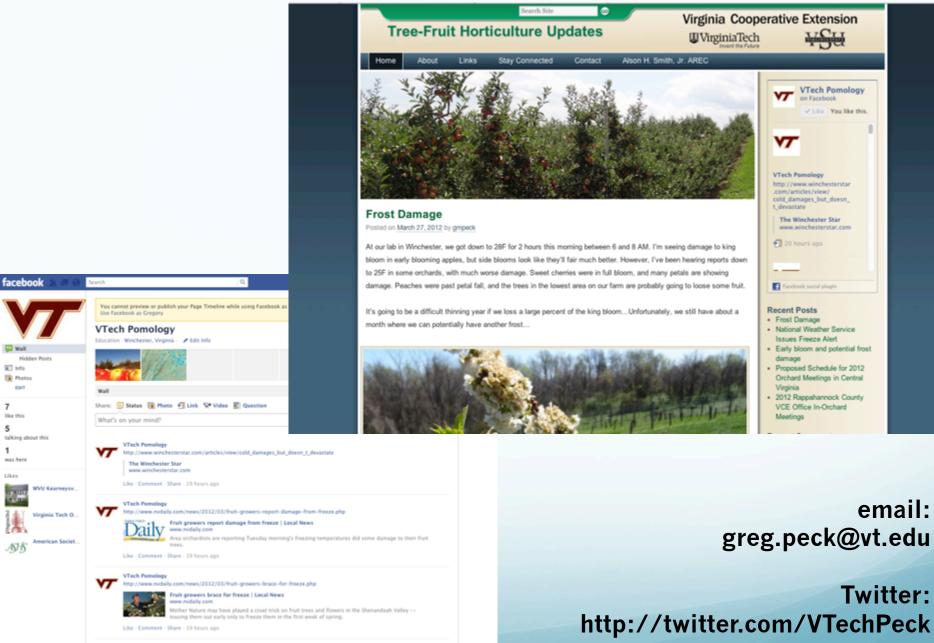
	Jan	Feb	March	April
1971-2000 Average	2.6	2.5	3.2	3.1
2012	1.2	0.9	2.7	0.4
Amount below Average	1.4	1.6	0.5	2.7

Nutrition & Ground cover Management

- For orchards with low boron content, use 3-4 lbs of Solubor at petal fall or first cover.
 - Do not tank mix with CaCl2 because boron may precipitate out of solution. This is especially true when pre-mixing in a small volume of water.
- Petal fall or first cover is also a good time for foliar zinc applications
- In lightly cropped trees, reduce or eliminate nitrogen applications
 - Though some research suggests that petal fall urea applications (3 lbs. urea/100 gal) may be beneficial in damaged trees

Herbicide updates from Dr. Rakesh Chandran are available directly from him (RSChandran@mail.wvu.edu), or on the VT Horticulture blog.

http://blogs.ext.vt.edu/tree-fruit-horticulture/



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