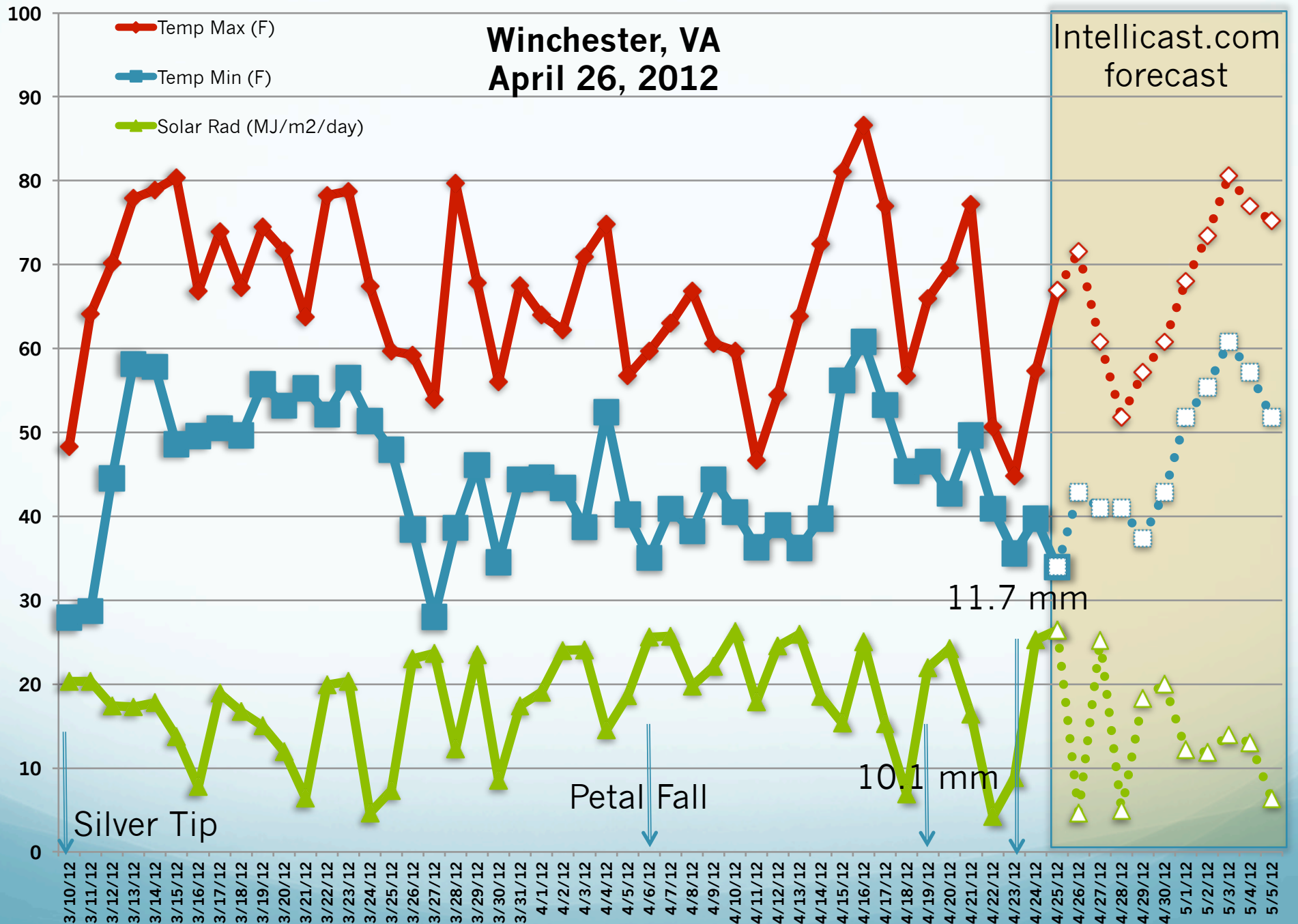


MaluSim Carbohydrate Model*

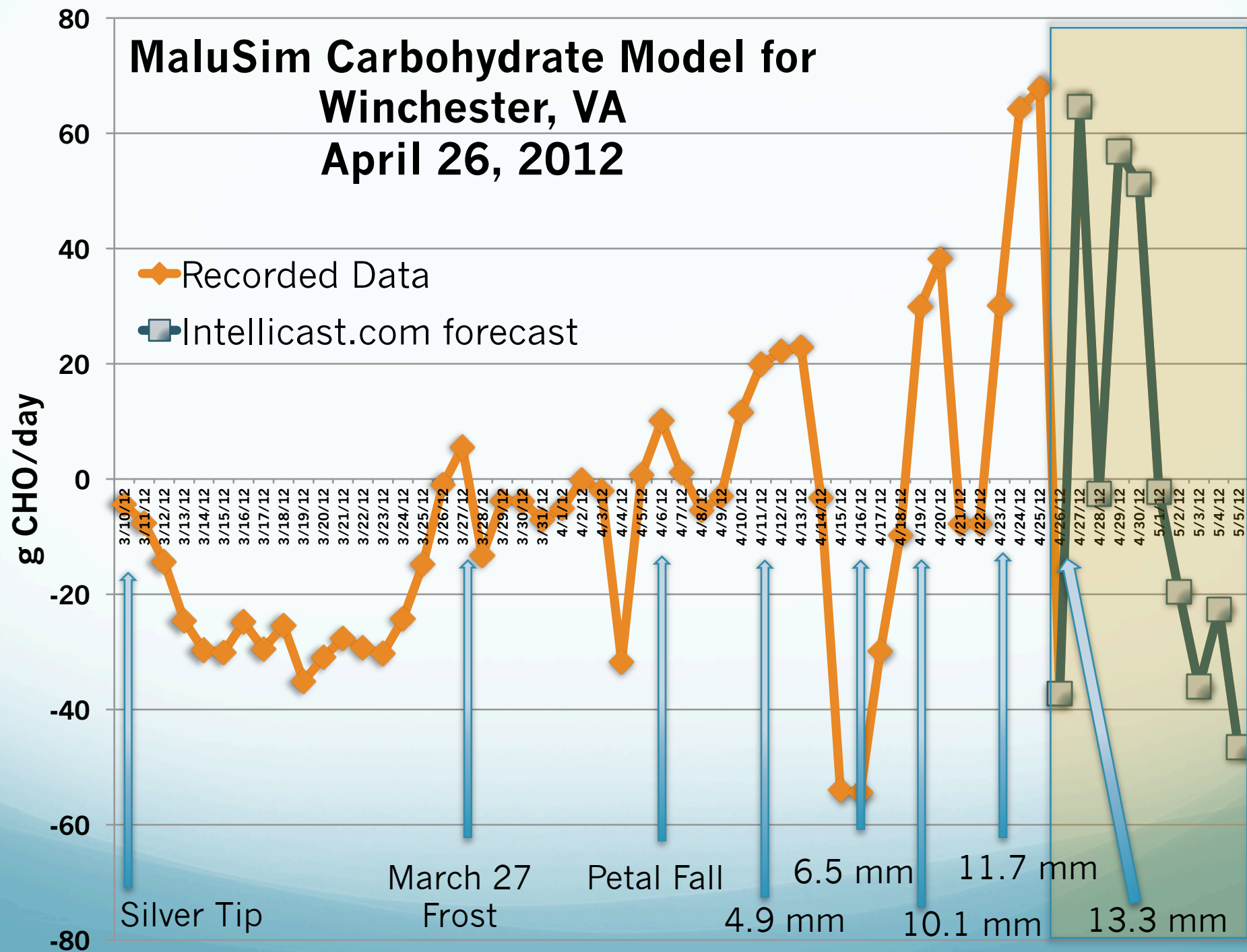
Simulation location: Winchester AREC
Simulation date: April 26, 2012 9:30AM

Greg Peck

*Developed by Dr. Alan Lakso, Cornell University



MaluSim Carbohydrate Model for Winchester, VA April 26, 2012



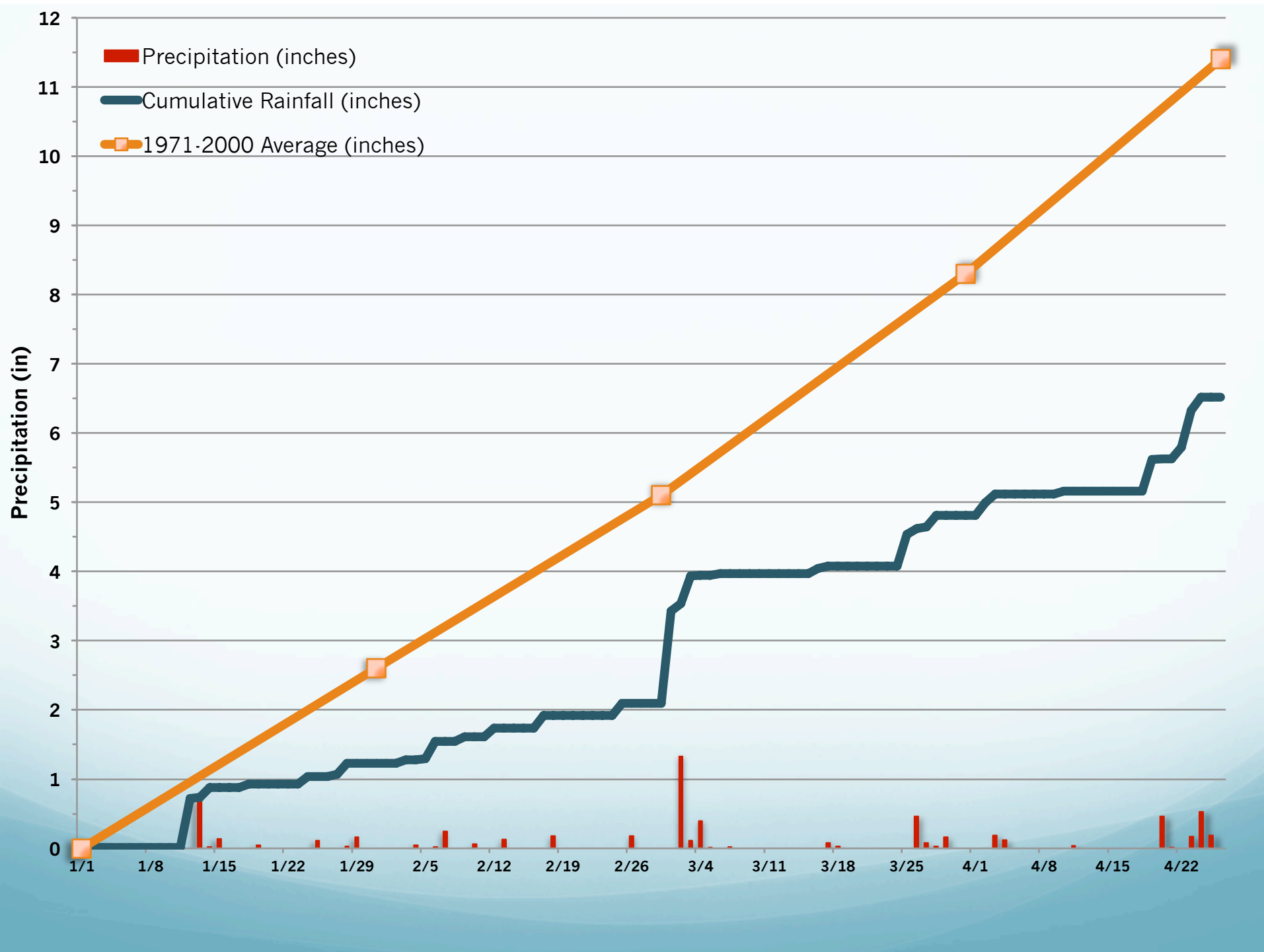
Interpreting the MaluSim Model: look for three-day trends

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
-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)

Fruitlet Sizes

Cultivar	April 28, 2011 Fruitlet size (mm)	April 26, 2012 Fruitlet size (mm)	Growth Rate over the last six days
Golden Delicious	5.6	9.9	
Red Delicious (Bisbee)	6.0	11.1	0.62 mm/day
Pink Lady	6.3	10.5	
Gala	6.5	10.7	0.55 mm/day
Empire	7.1	13.3	0.53 mm/day
York	5.3	10.3	
Suncrisp		8.7	
Golden Supreme		8.0	



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Tree-Fruit Horticulture Updates



Frost Damage
Posted on [March 27, 2012](#) by [gmpeck](#)

At our lab in Winchester, we got down to 28F for 2 hours this morning between 6 and 8 AM. I'm seeing damage to king bloom in early blooming apples, but side blooms look like they'll fair much better. However, I've been hearing reports down to 25F in some orchards, with much worse damage. Sweet cherries were in full bloom, and many petals are showing damage. Peaches were past petal fall, and the trees in the lowest area on our farm are probably going to loose some fruit.

It's going to be a difficult thinning year if we loss a large percent of the king bloom...Unfortunately, we still have about a month where we can potentially have another frost...



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