MaluSim Carbohydrate Model*

Simulation location: Piney River, VA (Central Virginia Fruit Growing Region)
Simulation date: May 9, 2013 9:30AM
Greg Peck

*Developed by Drs. Alan Lakso and Terence Robinson, Cornell University
Piney River, VA
May 9, 2013

Temperature Max (F)
Temperature Min (F)
Solar Radiation (MJ/m²/day)

Silver Tip
Petal Fall
10 mm king bloom
6 mm side bloom
Full Bloom
12.4 mm
10 mm king bloom
6 mm side bloom
MaluSim Carbohydrate Model for Piney River, VA

May 9, 2013 930AM

Recorded Data
- Intellicast.com forecast
- 4-day Running Average

Silver Tip
Full Bloom
Petal Fall
12.4 mm
10 mm King Bloom
6 mm Side Bloom
Interpreting the MaluSim Model: look for three-to four-day trends

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

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

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05/19/2013
Apple scabrust 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...

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

From: Tree Fruit Disease Update

At our AREC we split wetting periods totaling 18 hours starting at 54° at 11 AM April 28 and

http://www.anr.ext.vt.edu/tree-fruit/

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

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