MaluSim Carbohydrate Model*

Simulation location: Piney River, VA (Central Virginia Fruit Growing Region)
Simulation date: May 13, 2013 9:30AM

Greg Peck

*Developed by Drs. Alan Lakso and Terence Robinson, Cornell University
Piney River, VA
May 13, 2013

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

- Silver Tip
- Petal Fall
- Full Bloom
- 10 mm king bloom
- 6 mm side bloom

12.4 mm
14.1 mm

Forecast by Intellicast.com
MaluSim Carbohydrate Model for Piney River, VA
May 13, 2013 9:10AM

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

Silver Tip
Full Bloom
Petal Fall
10 mm King Bloom
12.4 mm
14.1 mm
6 mm Side Bloom

-10 mm King 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)
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.

Commercial tree fruit production updates

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...

04/29/2013
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 Apr 28 and

Table of Contents for 2013 Spray Bulletin

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.

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