

Pests to Watch Out For

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- B.S./M.S. at the University of Georgia studying aphid symbionts
- Ph.D. from NC State studying Spotted Wing Drosophila on small fruit crops
- 6 months in Hawaii studying Tephritid fruit fly resistance
- 14 months at Disney

**What I thought
fieldwork was
going to be
like...**



**What fieldwork
is actually like**



Also: Plinazolin?

Commercial Name	Active Ingredient	Dose	Treatment Interval
TetraCurb Max	Castor Oil, Rosemary Oil, etc	1% (128 fl oz/100 gallons)	5-7 Days
Bexar	Tolfenpyrad	27.0 fl oz/acre (0.28 lb ai/acre)	Only 3x per year, at least 14 days apart
Grandevo	<i>Chromobacterium subtsugae</i> strain PRAA4-11	2-3 lbs per acre	10-14 days
Veratran D Hi	Sabadilla Alkaloids	10 to 15 lb. per acre in 20 to 100 gallons of water	Reapply every 10-14 days, as needed
Azera	Azadirachtin and Pyrethrins	2 pints per acre	No more than every 5-7 days
Danitol	Fenpropathrin	10 2/3 fl oz/acre or 0.2 lbs ai/A	No more than 0.6 lbs ai/A or 2 treatments per calendar year
Movento	Spirotetramat	10 fl oz/acre or 0.16 lbs ai/A	No more than 30 fl oz per calendar year



Oaks, maples, birch, and other hardwoods

Spongy Moth

Blunt Nose Leafhopper

- Piercing-sucking mouthpart
- Carries the phytoplasma that causes false blossom disease



Black "Mirid" Bugs

- Haven't been seen in a while on the East Coast
- Damage young buds and leaves
- Piercing-sucking mouthparts



Adult *Plagiognathus repetitus*
(Hemiptera: Miridae)

Vaccinium Scale

- Piercing-sucking mouthparts
- Waxy protection



A cranberry upright encrusted by Vaccinium scale.



Vaccinium scale injury on a cranberry bed

Vaccinium Scale



Variation in Vaccinium scale on cranberry leaves. Round female covers on left and elongated cover of



Image shows a flipped scale cover to reveal the saclike yellow female with eggs, white eggshells, and crawlers underneath.

Resistance?

- Have you had to increase dosage for insect pests, weed control, or diseases? If you go back through your spray records, would you notice anything?
- Have you found that some products that worked in the past are no longer working?
- Do you have any pests (insects, weeds, or diseases) that you only have one product that you can use on it?

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