

BASF Product & Research Update

Ag. Innovation Symposium, March 26, 2014

 **BASF**
The Chemical Company


Merivon[®]
Xemium Brand Fungicide

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Merivon[®] Fungicide



- **Registered Crops:** Nut crop, pome and stone fruits, carrots, and strawberries
- **Formulation:** Suspension Concentrate (SC)
 - Water based suspension of Fluxapyroxad (Xemium[®]) and Pyraclostrobin (F500[®]) particles
 - Ratio is 1:1 based on weight
- **Active ingredient loading:**

 XEMIMUM [®] BRAND FUNGICIDE	Active Ingredient Contents	
	% by weight	Lbs/gallon
Fluxapyroxad (7)	21.26	2.09
Pyraclostrobin (11)	21.26	2.09
Merivon (total)	42.52	4.18

Maximizing Strawberry Production with Merivon®



Merivon® Use – Strawberries

Target Diseases	Powdery Mildew, Leaf Spot, Anthracnose 4 – 7 oz/A	Botrytis Gray Mold 8-11 oz/A	
Use Rate	4-11 oz/A	Max Applications per Season	3
PHI	0 days	REI	12 hours
General	Start applications prior to disease development and continue on 7-10 day interval.		

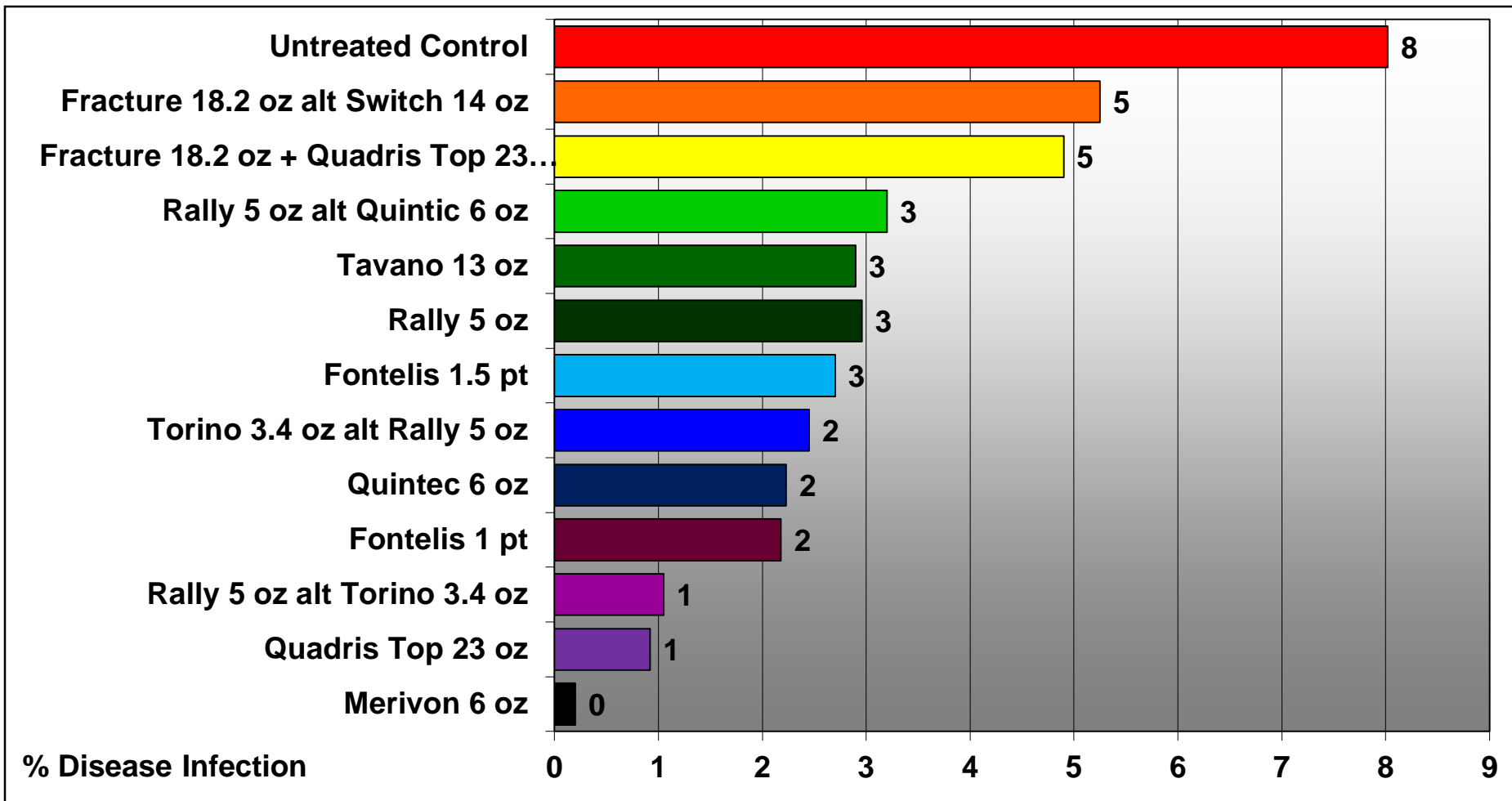
Maximum 2 consecutive applications then rotate to non-Group 7 or non-Group 11 product
No adjuvant or tank mixing restrictions

Research Trials on Strawberry

Merivon[®]
Xemium[®] Brand Fungicide

Merivon® Strawberry Powdery Mildew Control

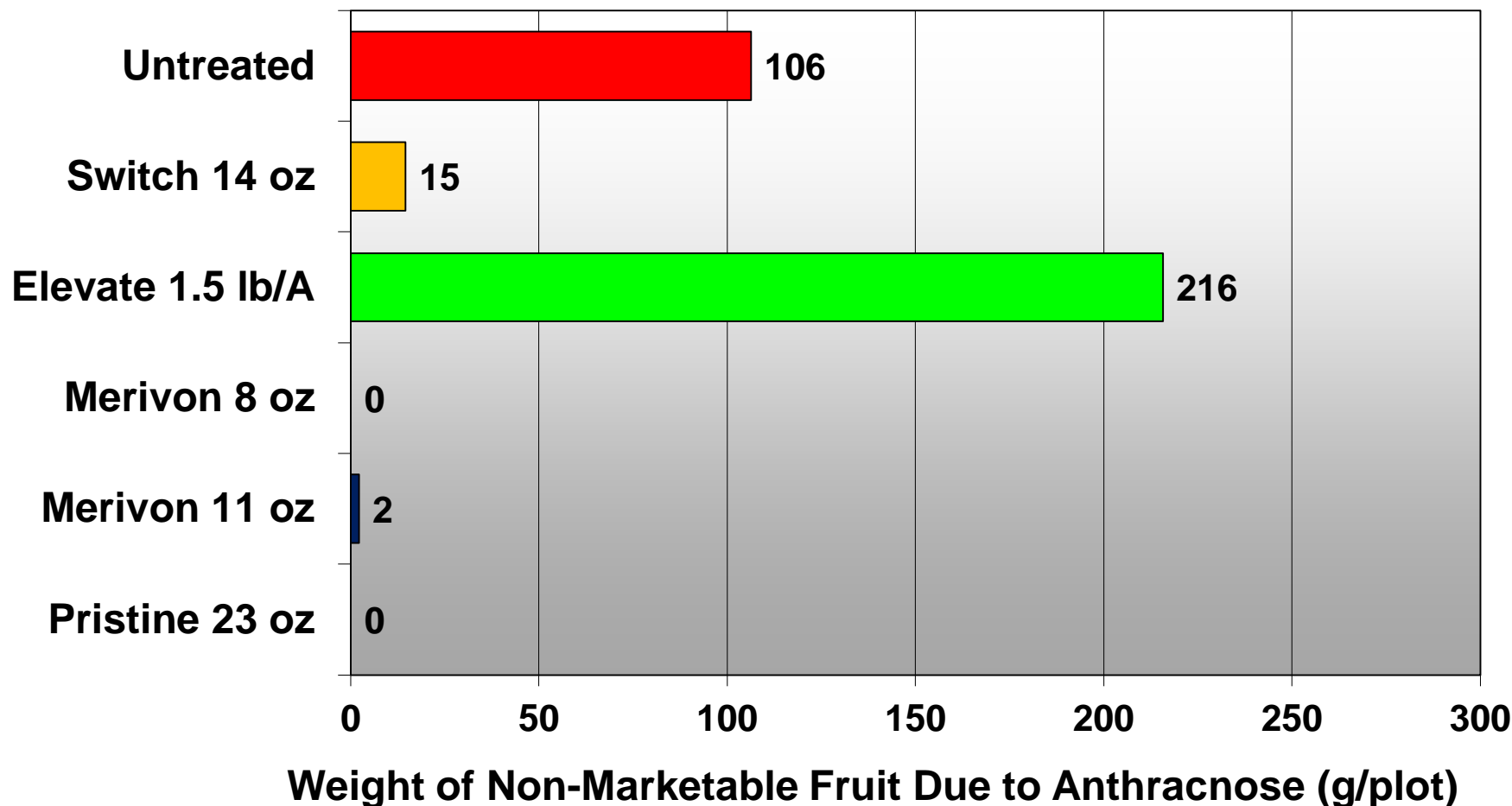
2013 UCCE Mark Bolda



Trial Location: Watsonville, CA. Applications were made on May 30, June 12, 26 and July 10. GPA=150 gal
Ratings: disease severity on underside of 10 strawberry leaflets – 0-100% scale. Ratings taken on July 24, 2013.

Merivon® Strawberry Anthracnose Control

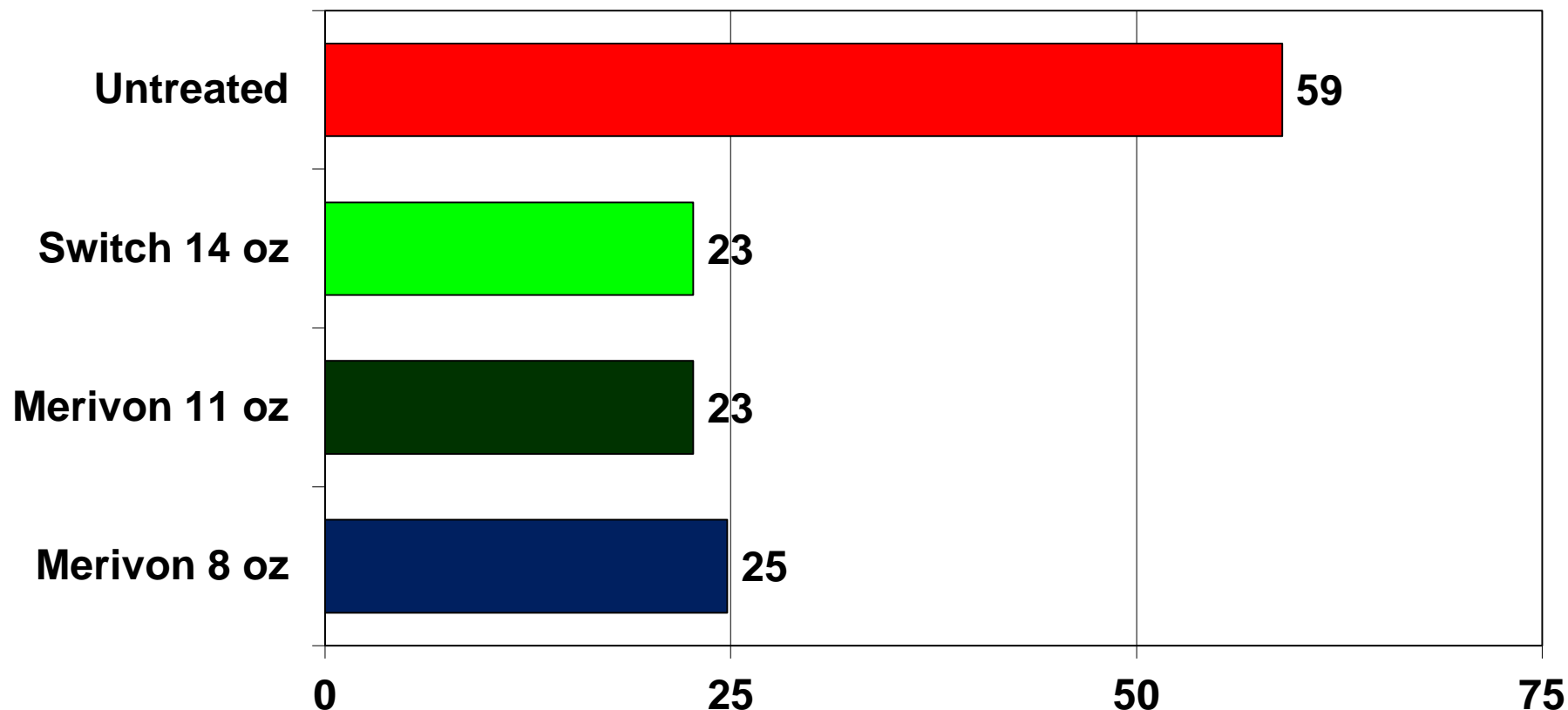
2012 University of North Carolina



1 trial - Dr. Frank Lowes. 8 apps on 7 d interval. All trts with Induce at 0.125%.

Merivon® Strawberry Botrytis Control

2011-2012 Average of 7 US Trials

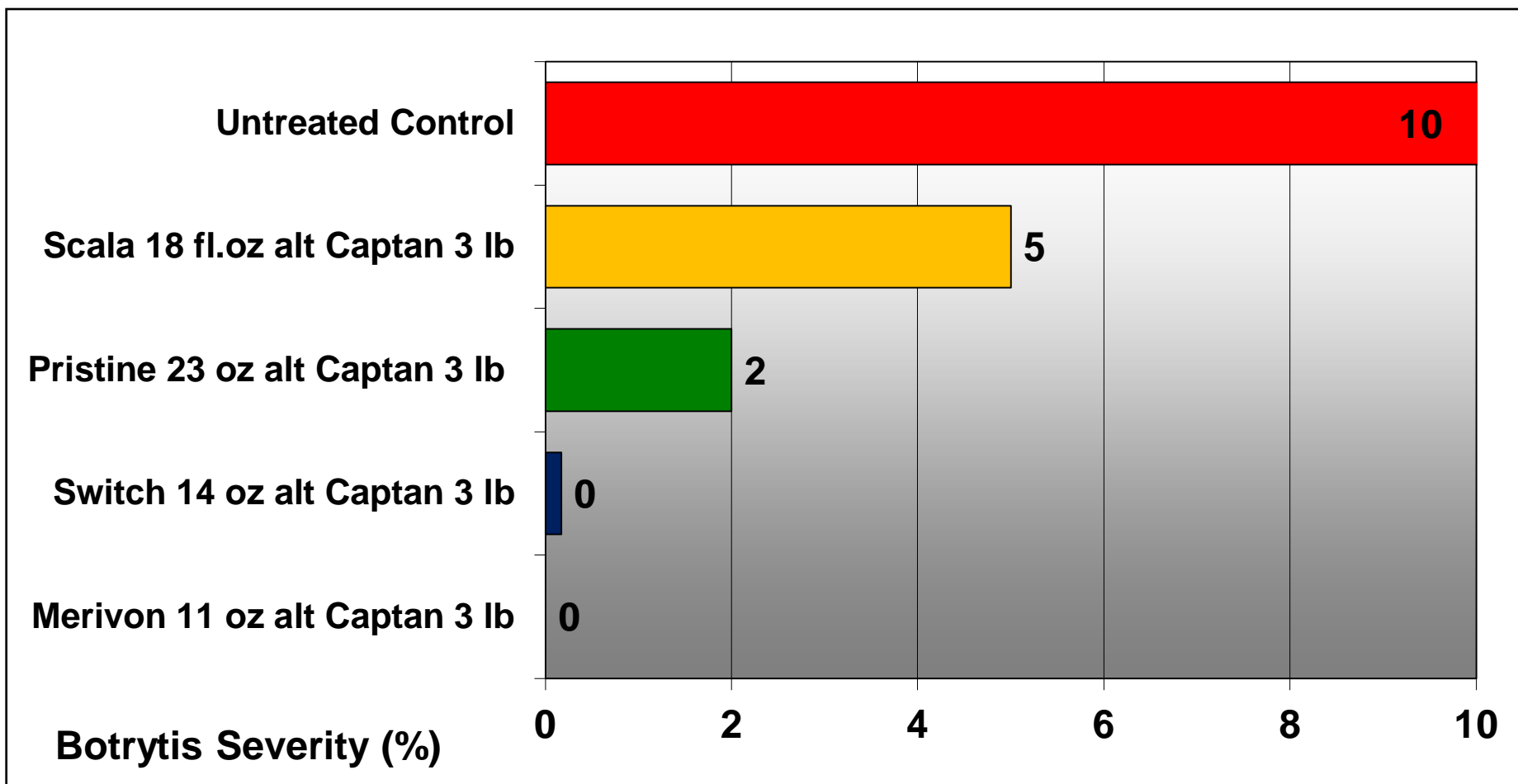


% Disease Incidence

7 trials – NC, FL, GA, CA. Data from 2011 and 2012 . All treatments with Induce at 0.125% v/v. Data taken 4-18 days after last application

Merivon® Strawberry Botrytis Control

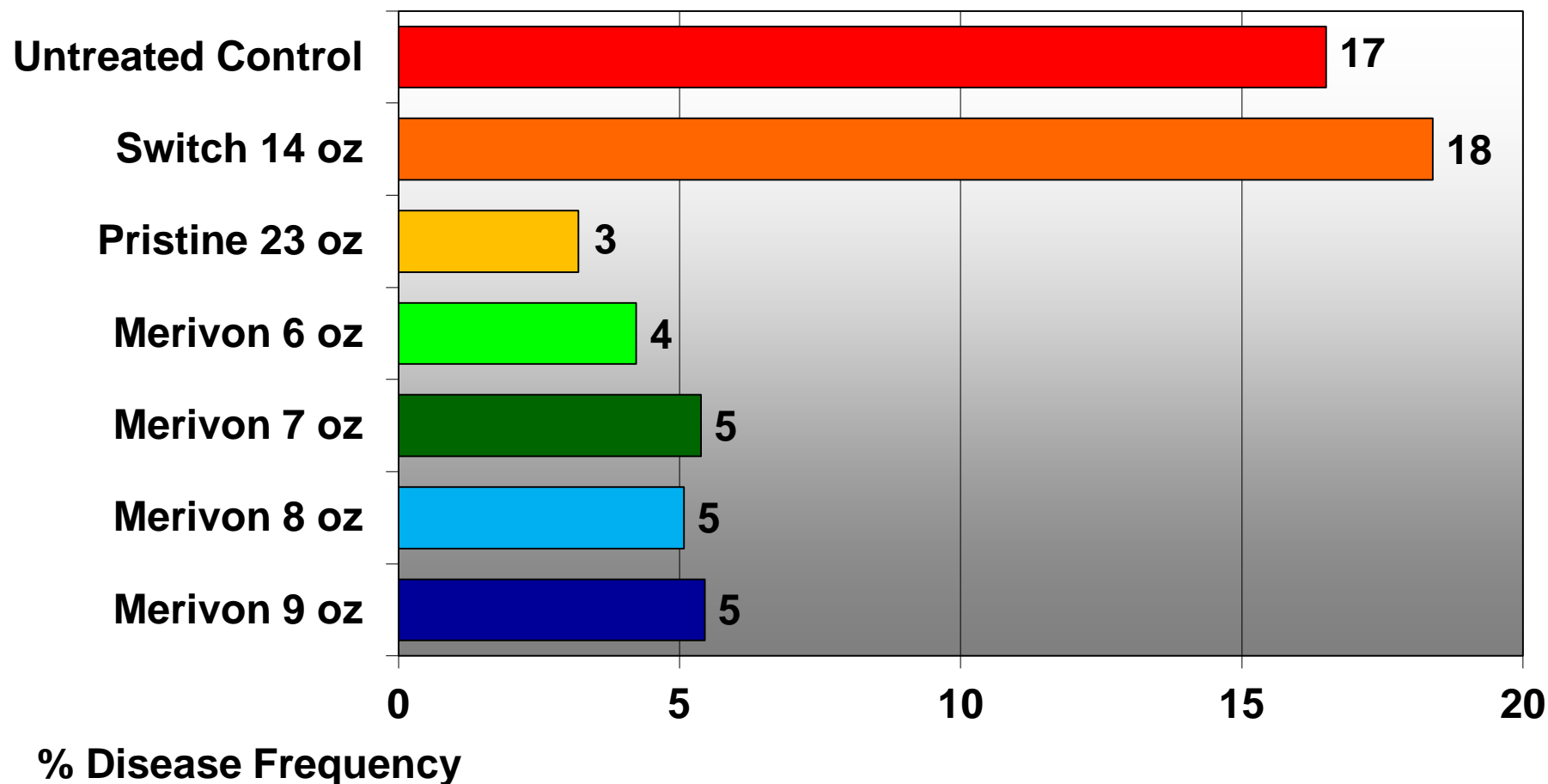
2012 Pacific Ag Research



Trial Location: San Luis Obispo, CA. Field applications made 14 days before harvest. Fruit harvested on May 8. Evaluations made on May 11. Severity ratings based on % diseased fruit per sample. Sample consists of 10 fruit/plot. All treatments included Organosilicone adjuvant.

Merivon® Strawberry Rhizopus Control

2013 Southeast Ag



Higher Level Disease Control with Merivon

Merivon fungicide research testing results



Control



Pristine
23 oz



Merivon
11 oz

Berries were placed in incubator at 68 degrees Fahrenheit. Photos taken 5 days after harvest

Strawberry PM and Botrytis Options



PM Products	Class	Botrytis Products	Class
SI (Various)	3	Captan	M4
Sulfur	M2	Thiram	M3
Cabrio & Abound	11	Scala	9
Pristine	7/11	Switch	9/12
Quintec	13	Pristine	7/11
Torino	U6	Elevate	17
Merivon	7/11	Topsin M	1
		Fontellis	7
		Merivon	7/11

Fungicide Rotation Tips

- **Use the FRAC numbers to your advantage**
 - Products will work better and longer if they are rotated more often
- **Back to back applications**
 - Although they are allowed this is not optimal
- **Calibrate your application equipment**
 - The best products will not make up for poor applications
- **Use labeled rates**
 - Cutting rates increase the chances for resistance

Merivon® Key Application Information



- **Optimal pH**
 - Wide range just don't go to the extremes
- **Surfactants**
 - No Restrictions
 - Use spreaders and penetrators rather than stickers
- **Tank mixes**
 - No tank mix restrictions
 - Ok with nutrients, insecticides, miticides and other fungicides

Merivon Key Application Information

- **Water Volumes**
 - 10 GPA Minimum
- **Application Methods**
 - Ground, Air, & Chemigation
- **Rainfast Period**
 - 1 hr. Drying Time
- **Signal Word**
 - Warning

Things To Remember About Merivon

- **Systemic Properties**
 - Continuous redistribution throughout the plant
 - Movement is in the Xylem
- **Broad Spectrum Disease Control**
 - PM, Botrytis, Anthracnose, Rhizopus
- **Post Harvest Disease Control**
 - Protecting the berries in and out of the field.

A close-up photograph of several ripe, red strawberries with green leaves and stems, growing in a field of straw mulch. The image is used as a background for the presentation slide.

Thank you for your attention

Questions?

Registered products mentioned in the presentation

- FUNGICIDES
 - Elevate® is a registered trademarks of Helena Holding Company
 - Switch® is a registered trademark of Syngenta Crop Protection, LLC
 - Pristine® is a registered trademark of BASF Corporation
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