









Orondis Gold Premix = Orondis + Ridomil

OXATHIAPIPROLIN GROUP 49 FUNGICIDE MEFENOXAM GROUP 4 FUNGICIDE PULL HERE TO OPEN



syngenta.

Fungicide

 Active Ingredient:
 0xathiapiprolin*:
 3.29%

 Mefenoxam**
 9.89%

 Other Ingredients:
 86.82%

100.00%

Total:

* CAS No. 1003318-67-9

**CAS Nos. 70630-17-0 and 69516-34-3

Orondis® Gold is formulated as a dispersible concentrate (DC) and contains 0.29 lb of oxathiapiprolin and 0.88lb of mefenoxam per gallon.

DANGER /

Should no entiende la etiquate d'asque a alguier para que se la expirique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

FIRST AID

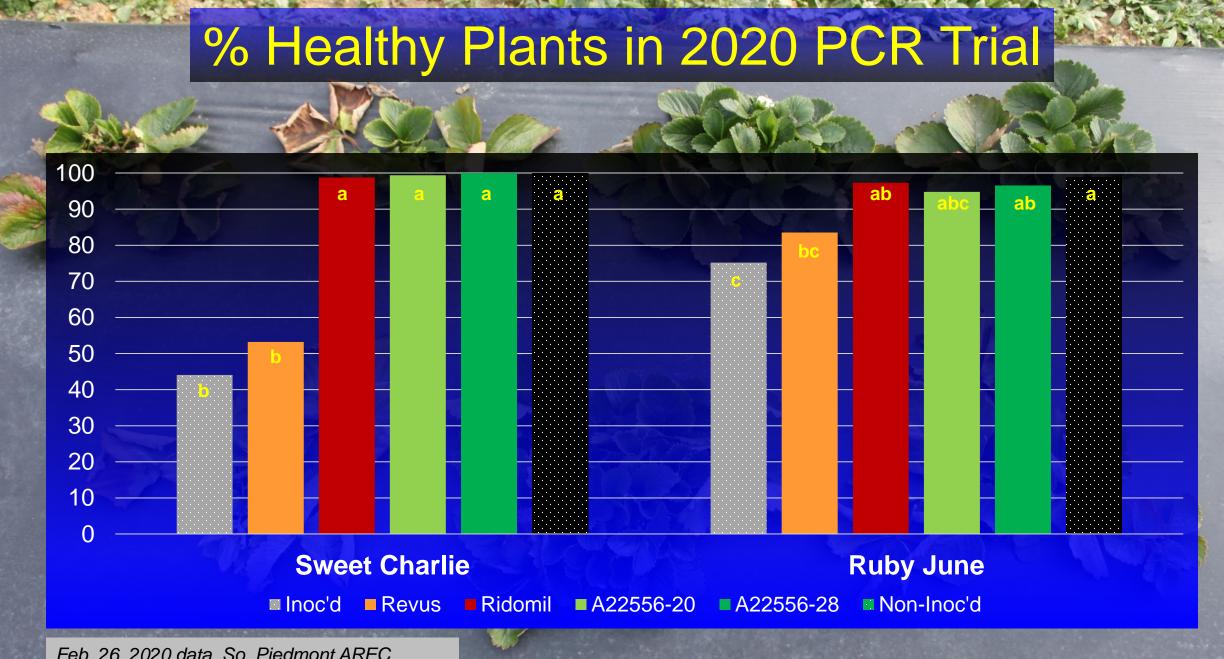
If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

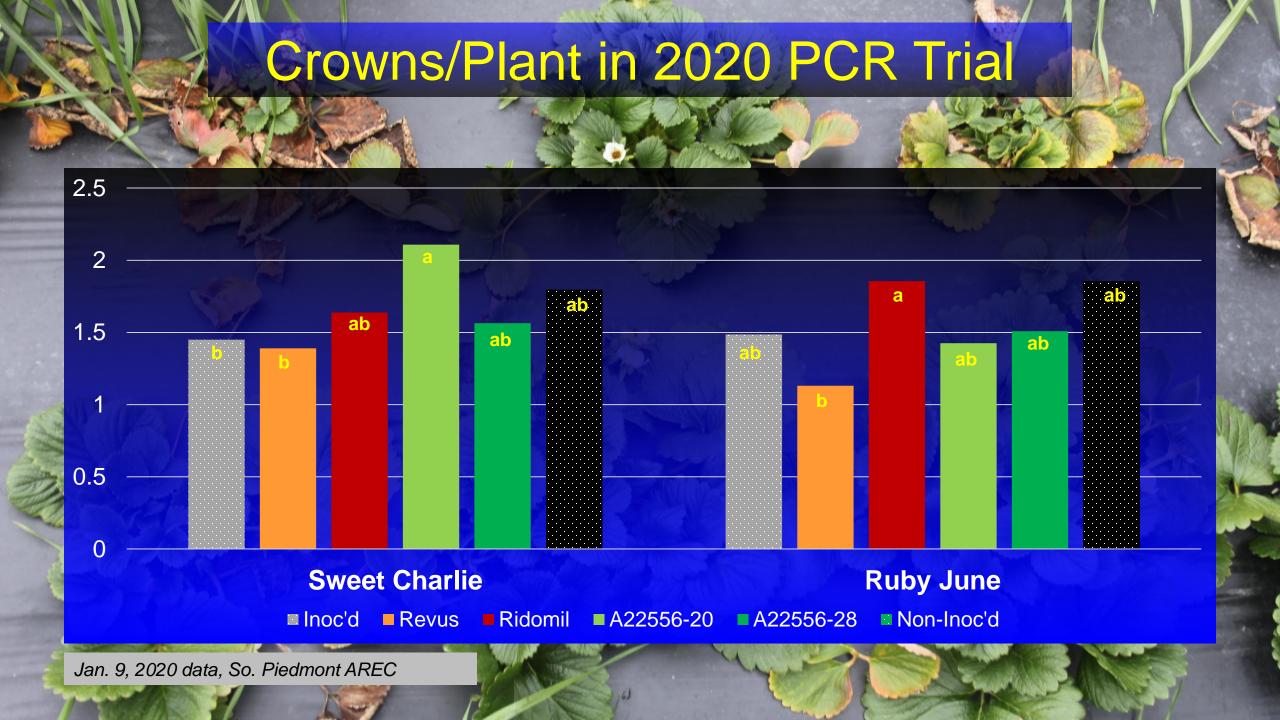
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

HOTLINE NUMBER: For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call 1-800-888-8372 • Rate = 24-27.8 fl oz/acre

- Equivalent to:
 - 4.8 fl oz Orondis Gold 200 &
 - 8 fl oz Ridomil Gold



Feb. 26, 2020 data, So. Piedmont AREC









Sublabel C: All Crop Groups Agricultural Use - Preplant, transplant & at plant treatment (nonfood use pattern)

Natamycin L

(alternate brand name: Zivion™ S)

Liquid Suspension Formulation—For Agricultural Use Only

For use as a pre-plant, transplant and at plant treatment as a broad spectrum pre-harvest biofungicide to control Anthracnose, Gray Mold, Black Mold, Powdery Mildew, Verticillium Wilt, Rhizopus Rot, Mucor Fruit Rot, Fusarium Wilt, Charachol Rot, Smut, White Rot, Southern Blight, Crown & Root Rot, Storage Rot, and common Leaf Spots, in all crop groups.

Active Ingredient:

Natamycin Other Ingredients: This product contains 0.93 pounds of Natamycin per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

See side/back panel for precautionary statements

First Aid

- Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow
- . Do not induce vomiting unless told by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.
- - . Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye
 - · Call a poison control center or doctor for treatment advice

treatment. For emergency information call: Poison Control Center Emergency Number, 1-800-222-1222, 24

DSM Food Specialties, B.V PO Box 1, 2600 MA, Delft The Netherlands +31 (15) 279 34 74

Questions? Phone: 1-574-232-5000 Fax: 1-574-232-2468

Net Weight: 0.26 Gallon (1 Liter)

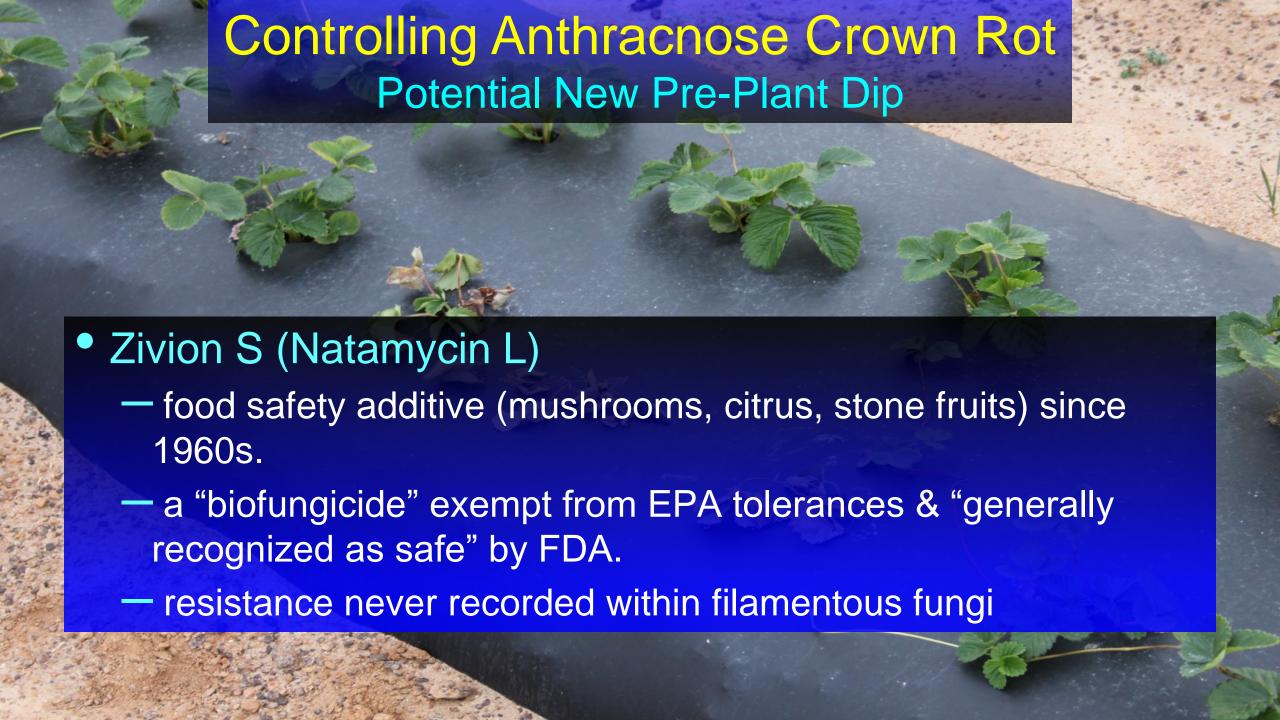
Natamycin L; EPA Reg. No. 87845-2 AMENDMENT: Addition of nonfood-use Sublabel C MASTER LABEL - label version (3a) dated May 31, 2017

EPA Reg. No.: 87845-2

EPA Est. No. 87845-FRA-001

Zivion S



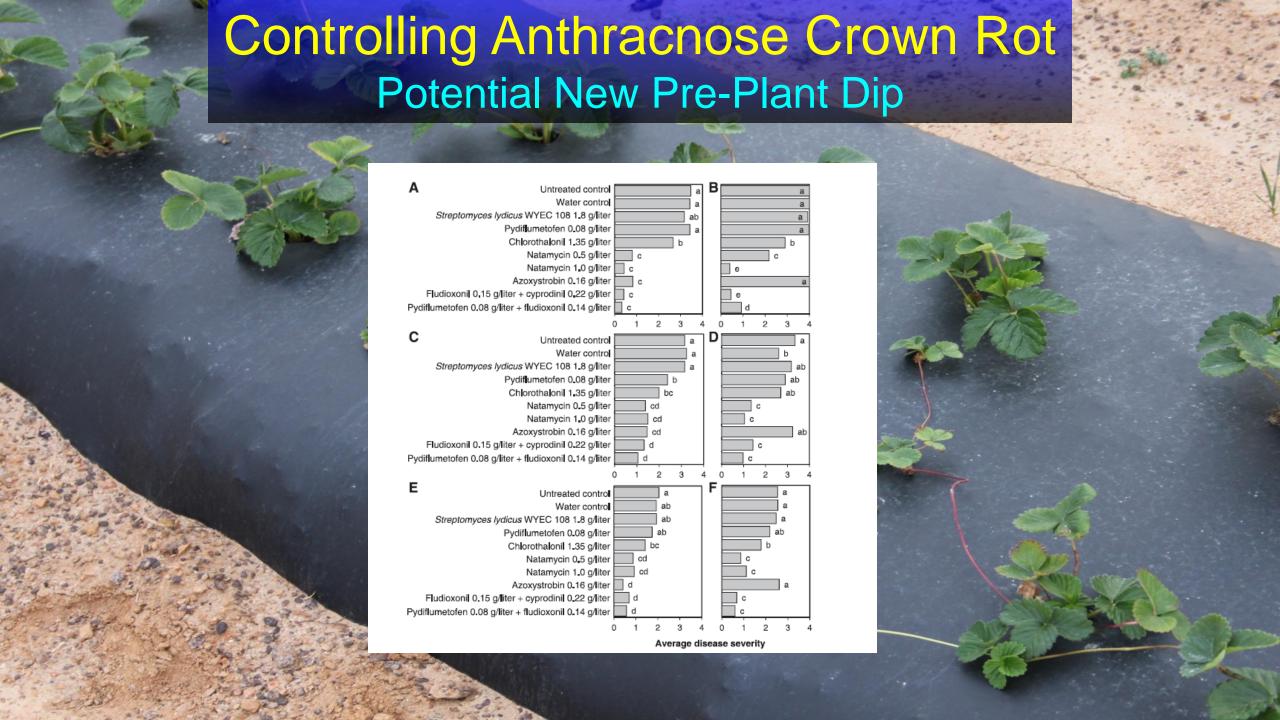


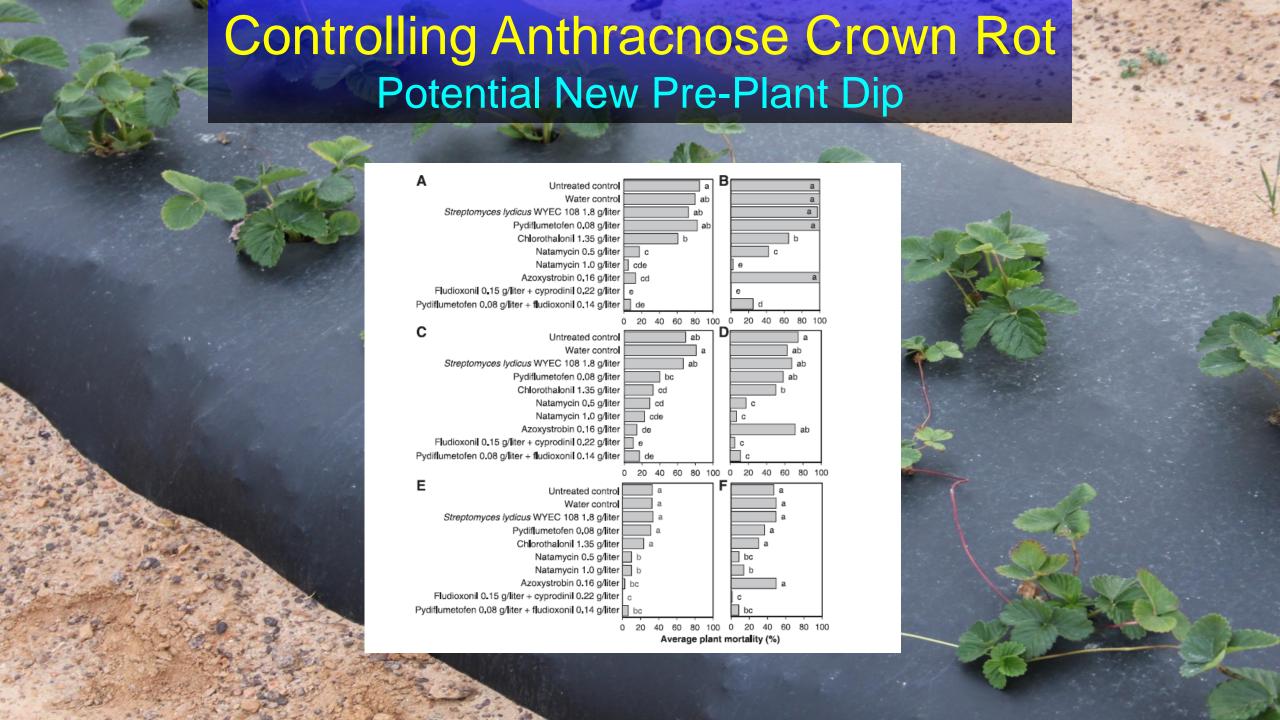
Controlling Anthracnose Crown Rot Potential New Pre-Plant Dip

- Zivion S (Natamycin L) Pre-Plant "Dip"
 - bare-root or cut-off plants or perhaps also tips
 - plants/tips should be free of excess soil before dipping
 - 6-12 fl oz Zivion/10 gal water
 - requires pre-mixing and continuous/frequent agitation
 - "Dip" = immerse for 2-5 minutes
 - inactivated by light?

Controlling Anthracnose Crown Rot Potential New Pre-Plant Dip

	% Disease	% Mortality	Yield (lb/A)	
Treatment, Rate/100 gal	2017	2018	2017	2018
Non-Inoculated Control	16.2 abc	1.2 b	1,690 de	7,041 a
Switch, 8 oz	1.2 e	7.5 ab	3,887 a	3,551 cde
Ziveon, 66.5 floz		10.0 ab		5,025 bc
Zivion, 26.6 fl oz	2.5 de	5.0 ab	2,924 abc	4,502 b-e
Abound, 8 fl oz	13.7 abc	15.0 a	1,644 de	3,522 cde
Inoculated Control		5.0 ab		4,596 bcd





Controlling Anthracnose Crown Rot Potential New Pre-Plant Dip

	Mean Fruit Wt (g)/replication						
	Tria	l #1	Trial #2				
Treatment, Rate/100 gal	Qol-Sensitive Qoi-Resistant		Qol-Sensitive	Qoi-Resistant			
Water Control	125 cde	102 ab	993 cd	813 c			
Switch, 8 oz	190 bc	255 a	1,999 ab	1,652 ab			
Ziveon, 1.0 g/l	161 bc	145 ab	1,738 ab	1,671 ab			
Zivion, 0.5 g/l	162 bc	262 a	1,827 ab	1,980 a			
Abound, 8 fl oz	378 a	16 c	1,946 ab	683 c			
Untreated Control	24 f	81 bc	835 d	641 c			

Botrytis & Anthracnose Fungicide Resistance Profiles

Send samples to: University of Georgia Plant Molecular Diagnostic Lab, Plant Science Building, 2360 Rainwater Rd. Tifton GA 31793

Instructions at:

https://site.caes.uga.edu/alimdl/fungicide-resistance-testing/

Botrytis: ≤10 specimens = 1 sample: \$250

Colletotrichum: ≤10 specimens = 1 sample: \$100

	Fungicide Decision Management Table											
Decision	Fungicide Resi	stance Issue	П	Sprays During Bloom and Fruit Ripening								
Code	Botrytis	Anthracnose	П	1	2	3	4	5	6			
Α	No resistance	No Disease		12+9	7	thiram+17	thiram+19	captan	Goto 1			
B-1	No resistance	No resistance		captan+17	11+7	12+9	captan+19	11+7	Goto 1			
C-1	FRAC 7	No resistance		captan+17	captan+11	12+9	captan+11	captan+19	Goto 1			
D-1	FRAC 17	No resistance		thiram+11	captan	12+9	11+7	captan+19	Goto 1			
E-1	FRAC 7+17	No resistance		thiram+11	captan	12+9	captan+11	captan+19	Goto 1			
F-1	FRAC 12+9	No resistance		captan+17	11+7	thiram	captan+19	captan+19	Goto 1			
G-1	FRAC 12+9+17	No resistance		thiram+11	captan	thiram	captan+11	captan+19	Goto 1			
H-1	FRAC 12+9+7	No resistance		captan+17	captan	thiram	captan+11	captan+19	Goto 1			
I-1	FRAC 12+9+7+17	No resistance		thiram+11	captan	thiram	captan+11	captan+19	Goto 1			
B-2	No resistance	FRAC 11		captan+17	captan+7	12+9	captan+19	captan+7	Goto 1			
C-2	FRAC 7	FRAC 11		captan+17	captan	12+9	captan+17	captan+19	Goto 1			
D-2	FRAC 17	FRAC 11		captan+7	captan+7	12+9	captan+7	captan+19	Goto 1			
E-2	FRAC 7+17	FRAC 11	П	12+9	captan	captan+19	12+9	captan	Goto 1			
F-2	FRAC 12+9	FRAC 11		captan+17	captan+7	thiram	captan+19	captan	Goto 1			
G-2	FRAC 12+9+17	FRAC 11		thiram+7	captan	captan+7	captan	captan+19	Goto 1			
H-2	FRAC 12+9+7	FRAC 11		captan+17	captan	thiram	captan+17	captan+19	Goto 1			
I-2	FRAC 12+9+7+17	FRAC 11		thiram	captan	captan+19	captan	captan+19	Goto 1			

Decision Management Code Guidelines:

A: Botrytis is expected with no resistance and plants are verified to be anthracnose free.

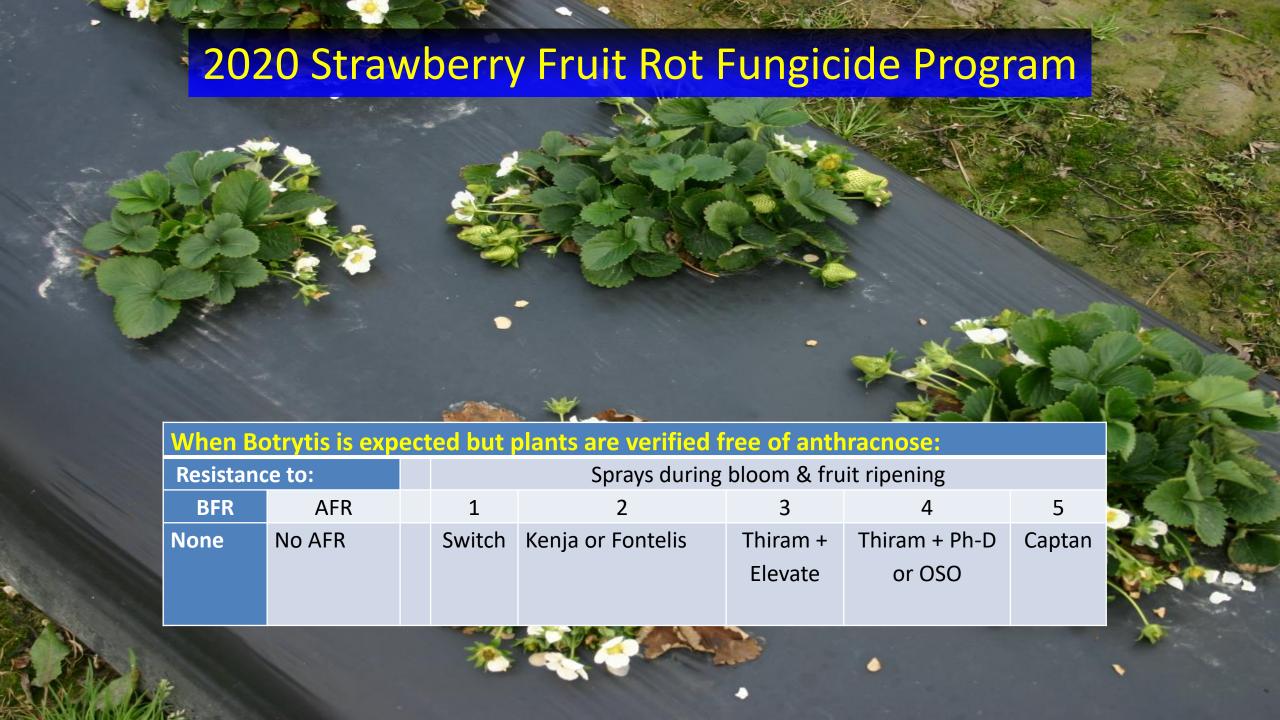
B-1 to I-1: The anthracnose pathogen is known to be <u>sensitive</u> to FRAC 11 products.

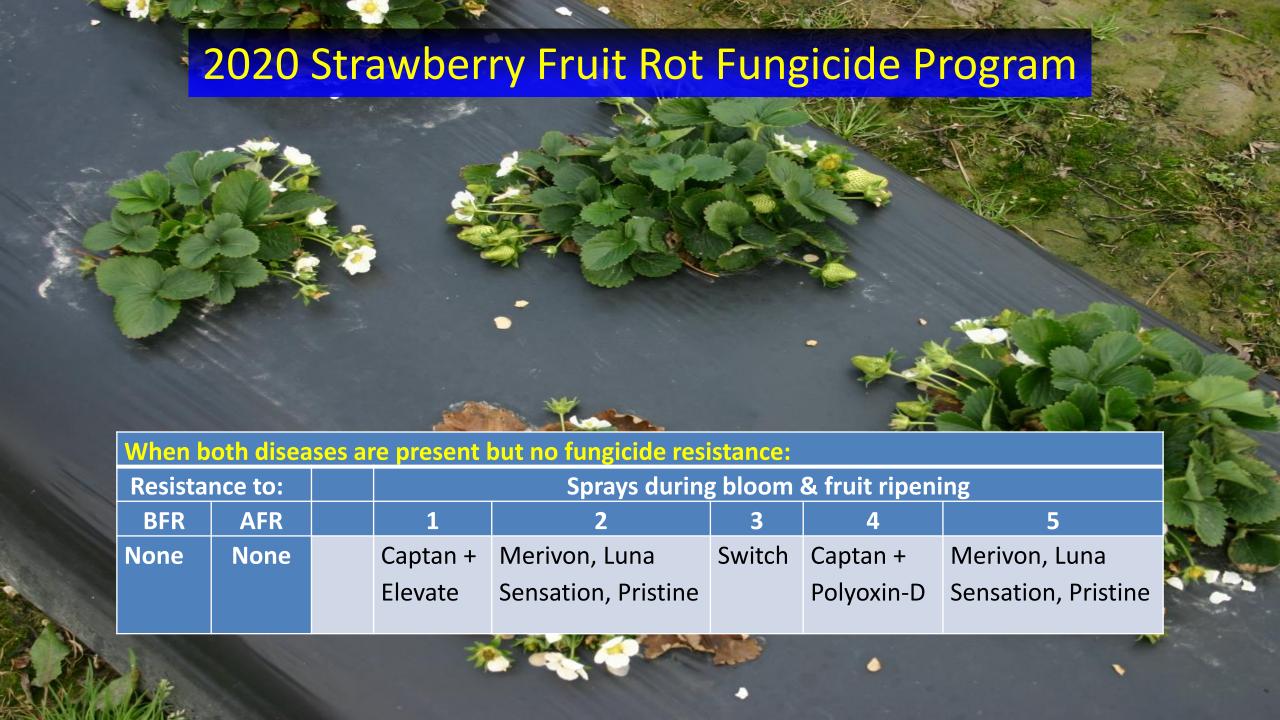
B-2 to I-2: The anthracnose pathogen is known to be resistant to FRAC 11 products.

NOTE: For B-1 to I-1: If anthracnose is known to be absent, then the FRAC 11 products are NOT needed.

B-1: Botrytis is expected, no resistance is documented, and plants are verified to harbor the anthracnose pathogen.

C-1: Botrytis is resistant to FRAC 7 products, and plants are verified to harbor the anthracnose pathogen.





Resistance to:		Sprays during bloom & fruit ripening					
BFR	AFR	1	2	3	4	5	
FRAC 7 (Kenja,	None	Captan +	Captan + Cabrio,	Switch	Captan + Cabrio,	Captan+	
Fontelis)		Elevate	Abound, or Azaka		Abound, or Azaka	PhD, OSO	
FRAC 17 (Elevate)	None	Thiram +	Captan	Switch	Pristine, Merivon, Luna	Captan+	
4		Cabrio, etc			Sensation	PhD, OSO	
FRAC 7 + 17	None	Thiram +	Captan	Switch	Captan	Captan+	
		Cabrio, etc			+ Cabrio, etc.	PhD, OSO	
FRAC 12 + 9	None	Captan +	Merivon, Luna	Thiram	Captan + PhD, OSO or Tavano	Captan+	
(Switch)		Elevate	Sensation, Pristine			PhD, OSO	
FRAC 12 + 9 + 17	None	Thiram +	Captan	Thiram	Captan + Cabrio, Abound or	Captan+	
		Cabrio, etc			Azaka	PhD, OSO	
FRAC 12 + 9 + 7	None	Captan +	Captan	Thiram	Captan + Cabrio, Abound or	Captan+	
		Elevate			Azaka	PhD, OSO	
FRAC 12 + 9 + 7 +	None	Thiram +	Captan	Thiram	Captan + Cabrio, Abound or	Captan+	
17		Cabrio, etc.			Azaka	PhD, OSO	

Anthracnose sensitive to all fungicide MOAs

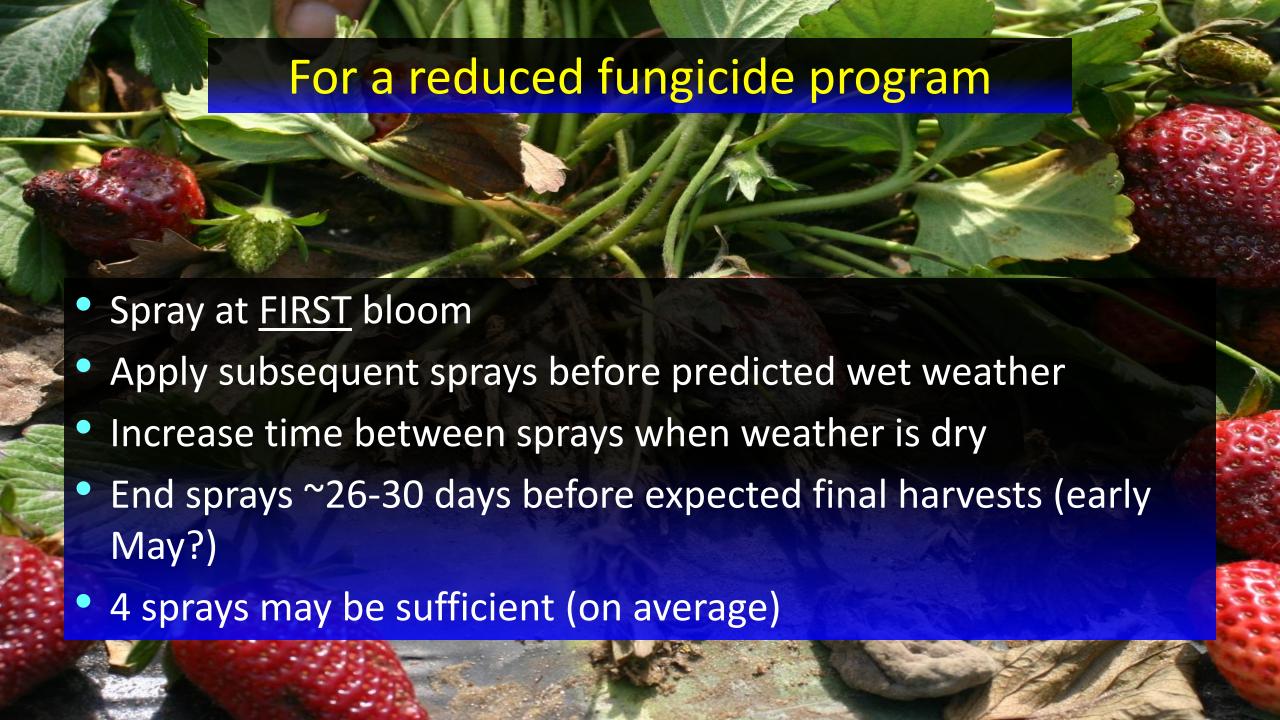
Resistance to:		Sprays during bloom & fruit ripening				
BFR	AFR	1	2	3	4	5
FRAC 7 (Kenja, Fontelis)	None	Captan +	Captan + Cabrio,	Switch	Captan + Cabrio,	Captan+
		Elevate	Abound, or Azaka		Abound, or Azaka	PhD, OSO
FRAC 17 (Elevate)	None	Thiram +	Captan	Switch	Pristine, Merivon, Luna	Captan+
		Cabrio, etc			Sensation	PhD, OSO
FRAC 7 + 17	None	Thiram +	Captan	Switch	Captan	Captan+
		Cabrio, etc			+ Cabrio, etc.	PhD, OSO
FRAC 12 + 9 (Switch)	None	Captan +	Merivon, Luna	Thiram	Captan + PhD, OSO or Tavano	Captan+
		Elevate	Sensation, Pristine			PhD, OSO
FRAC 12 + 9 + 17	None	Thiram +	Captan	Thiram	Captan + Cabrio, Abound or	Captan+
		Cabrio, etc			Azaka	PhD, OSO
FRAC 12 + 9 + 7	None	Captan +	Captan	Thiram	Captan + Cabrio, Abound or	Captan+
		Elevate			Azaka	PhD, OSO
FRAC 12 + 9 + 7 +	None	Thiram +	Captan	Thiram	Captan + Cabrio, Abound or	Captan+
17		Cabrio, etc.			Azaka	PhD, OSO

Tank mixes: Use FRAC 11 fungicides at the lower label rate with the higher label rate of a Captan or Captec product.

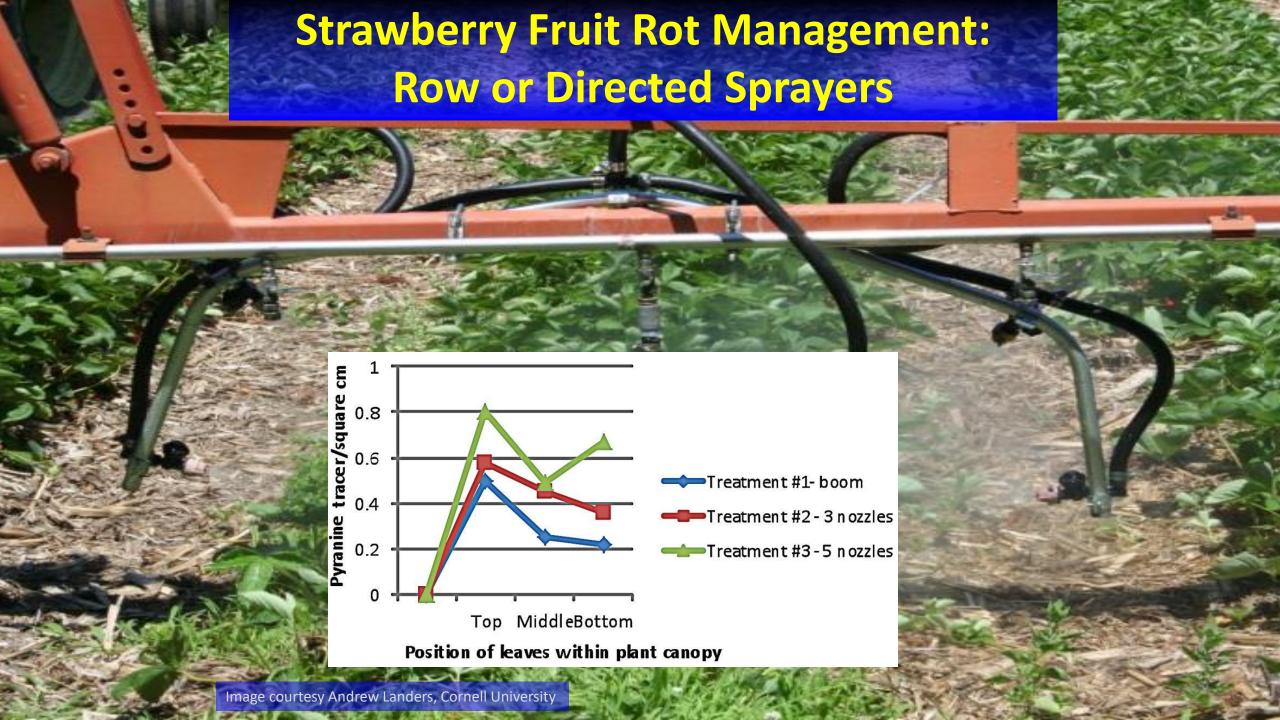
Anthracnose resistant to FRAC 11 fungicides

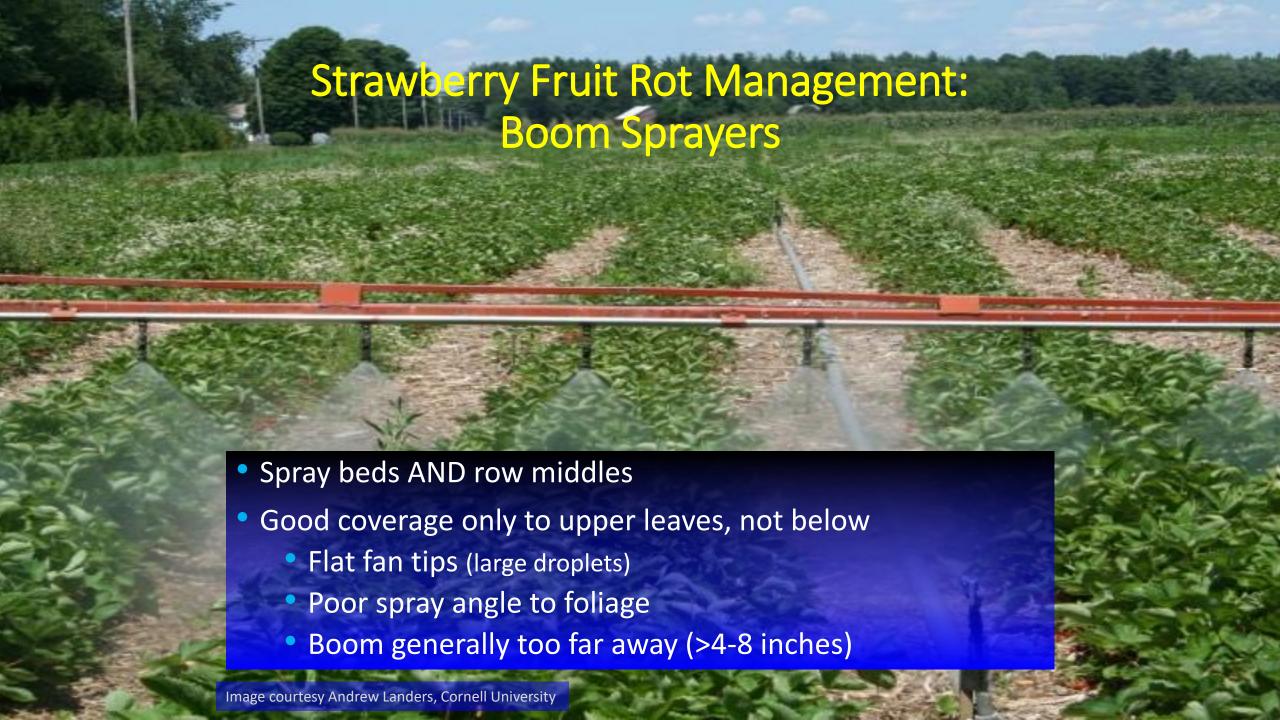
BFR Resistance		Sprays during bloom & fruit ripening									
To FRAC No.:		1	2	3	4	5					
None		Captan + Elevate	Captan + Fontelis or Kenja	Switch	Captan + PhD, OSO	Captan + Kenja,					
•						Fontelis					
FRAC 7		Captan + Elevate	Captan	Switch	Captan + Elevate	Captan + PhD, OSO					
FRAC 17 (Elevate)		Captan + Kenja or	Captan + Kenja or Fontelis	Switch	Captan + Kenja or	Captan+					
		Fontalis			Fontelis	PhD, OSO					
FRAC 7,17		Switch	Captan	Captan + PhD, OSO	Switch	Captan					
FRAC 12,9 (Switch)		Captan + Elevate	Captan + Kenja or	Thiram	Captan + PhD, OSO	Captan					
			Fontelis		or Tavano						
FRAC 12,9,17		Thiram + Kenja or	Captan	Captan + Kenja or	Captan	Captan + PhD, OSO					
		Fontelis		Fontelis							
FRAC 12,9,7		Captan + Elevate	Captan	Thiram	Captan + Elevate	Captan + PhD, OSO					
FRAC 12,9,7,17		Thiram	Captan	Captan+PhD, OSO	Captan	Captan +					
In mixtures: Use other fungicides at the lower label rate with the higher label rate of a Captan or PhD, OSO											

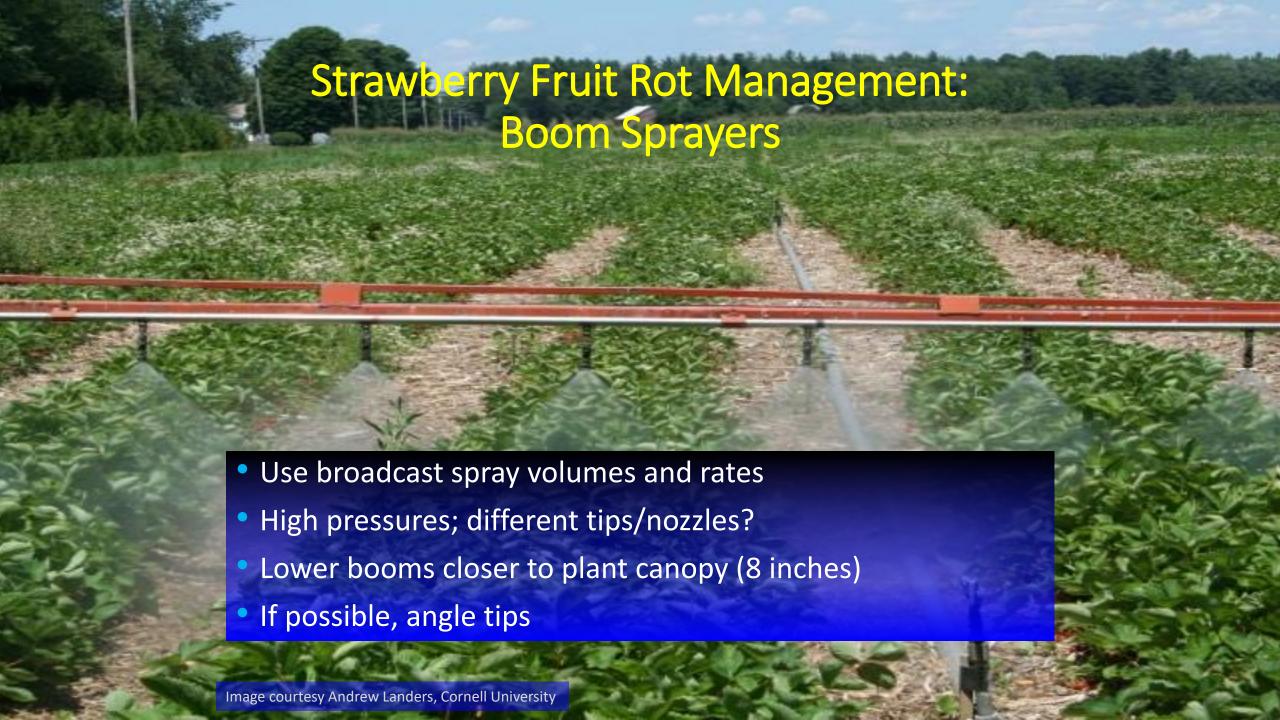
Captec product.





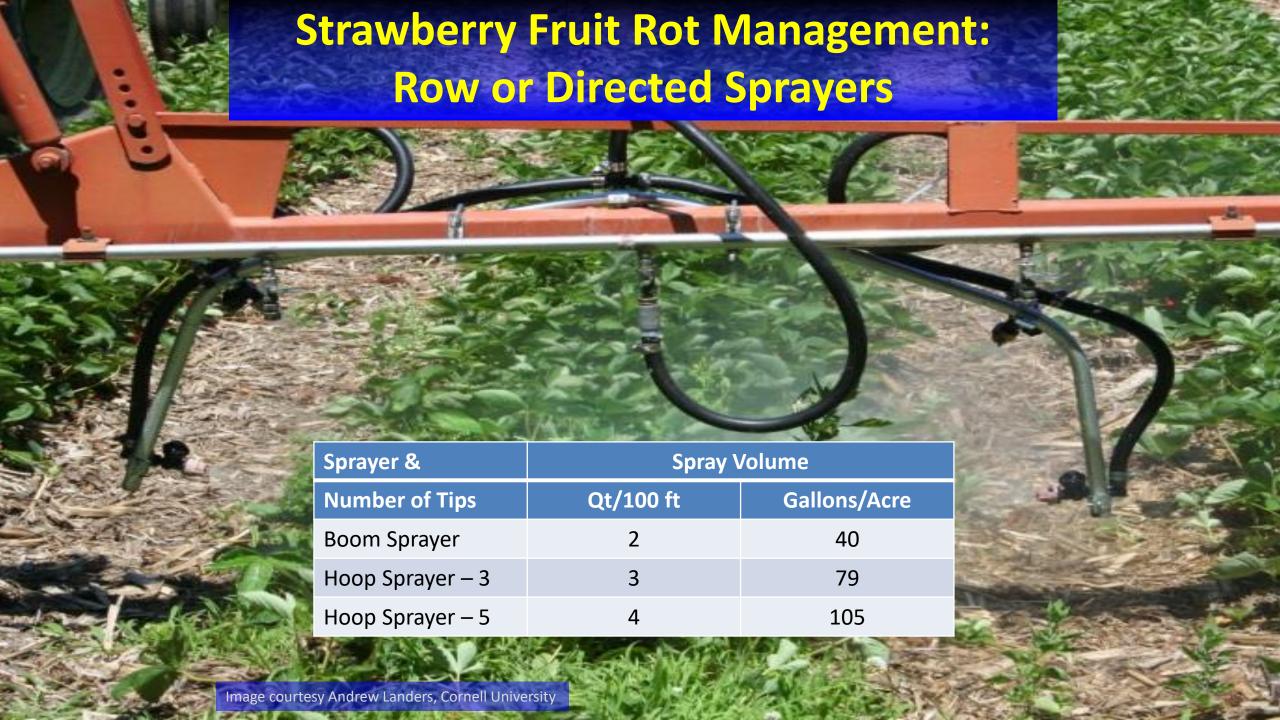


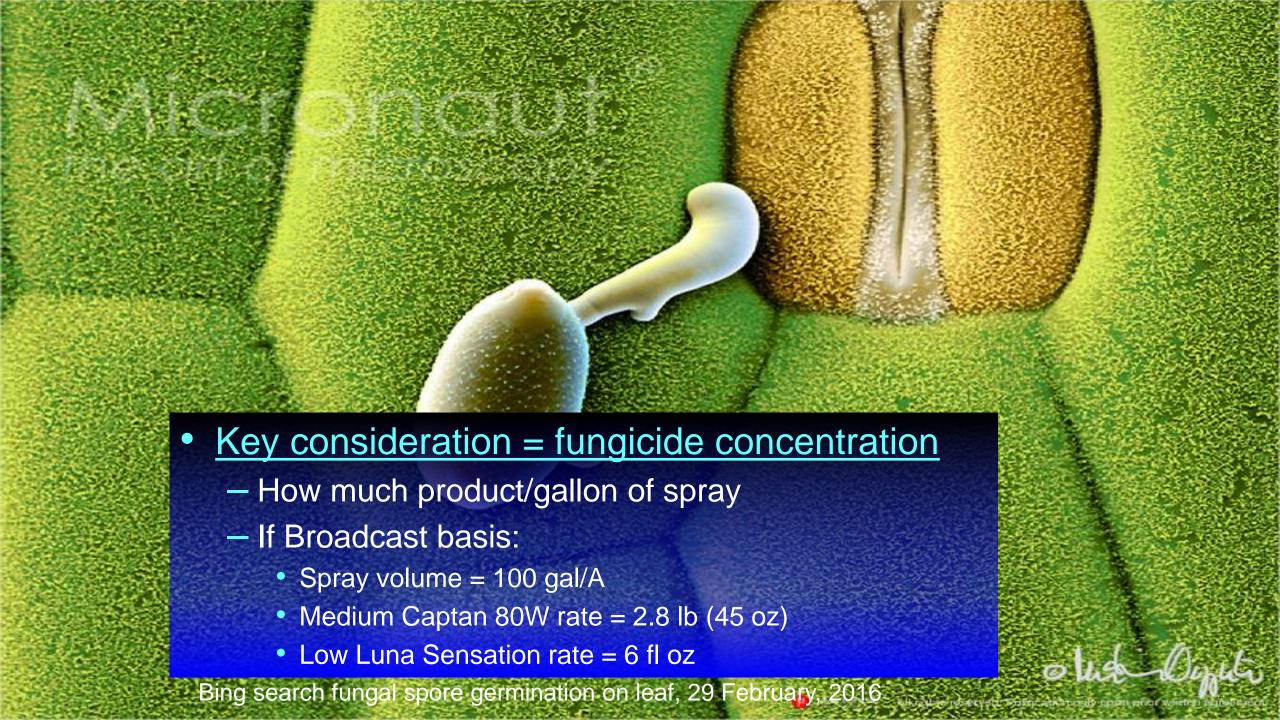


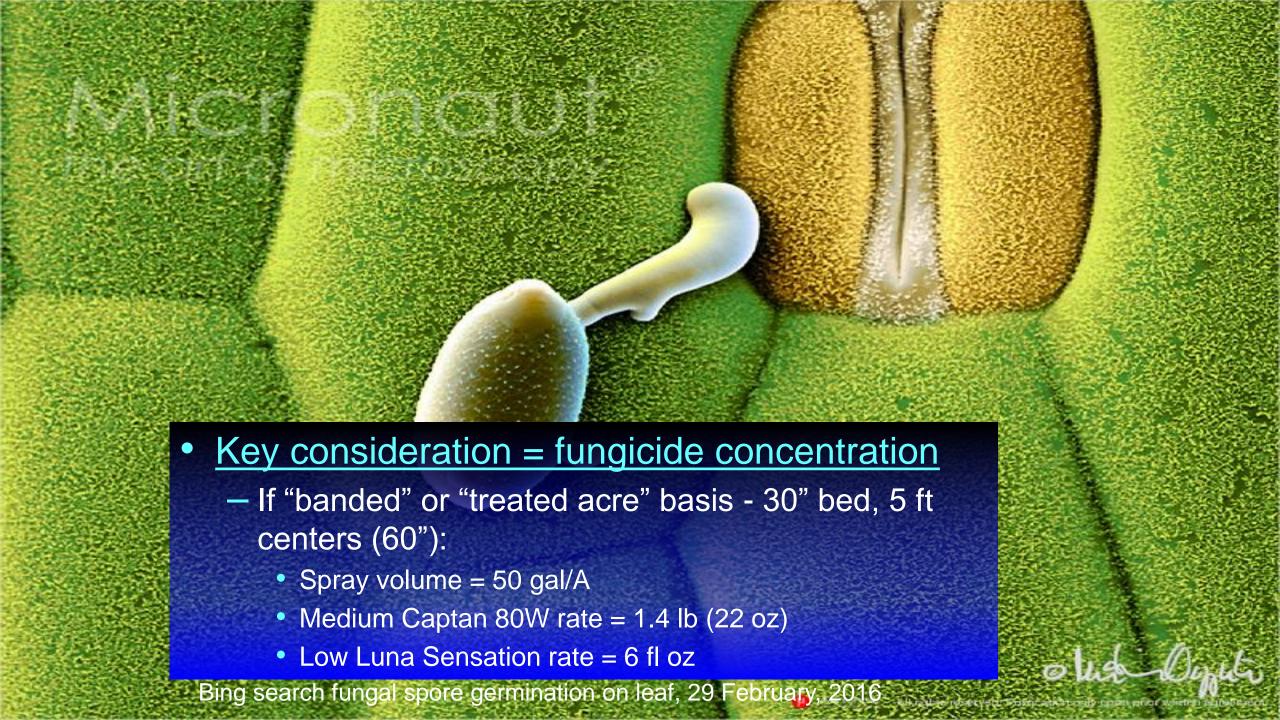


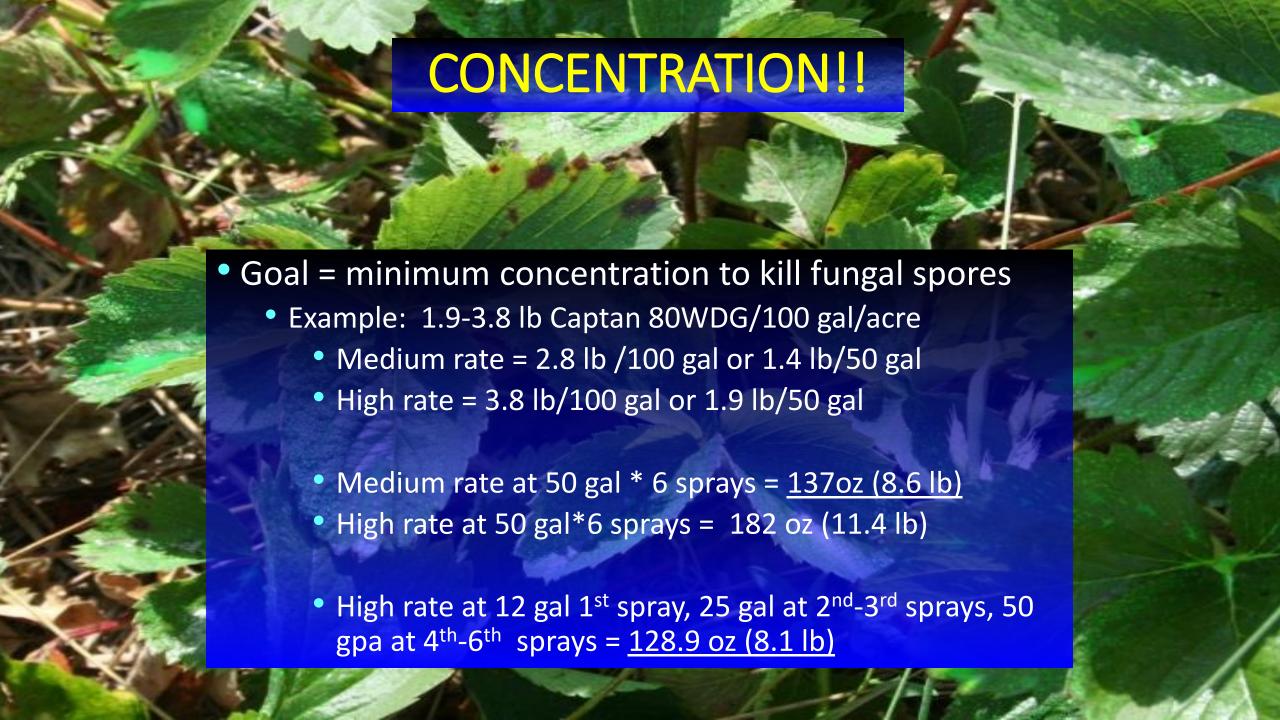


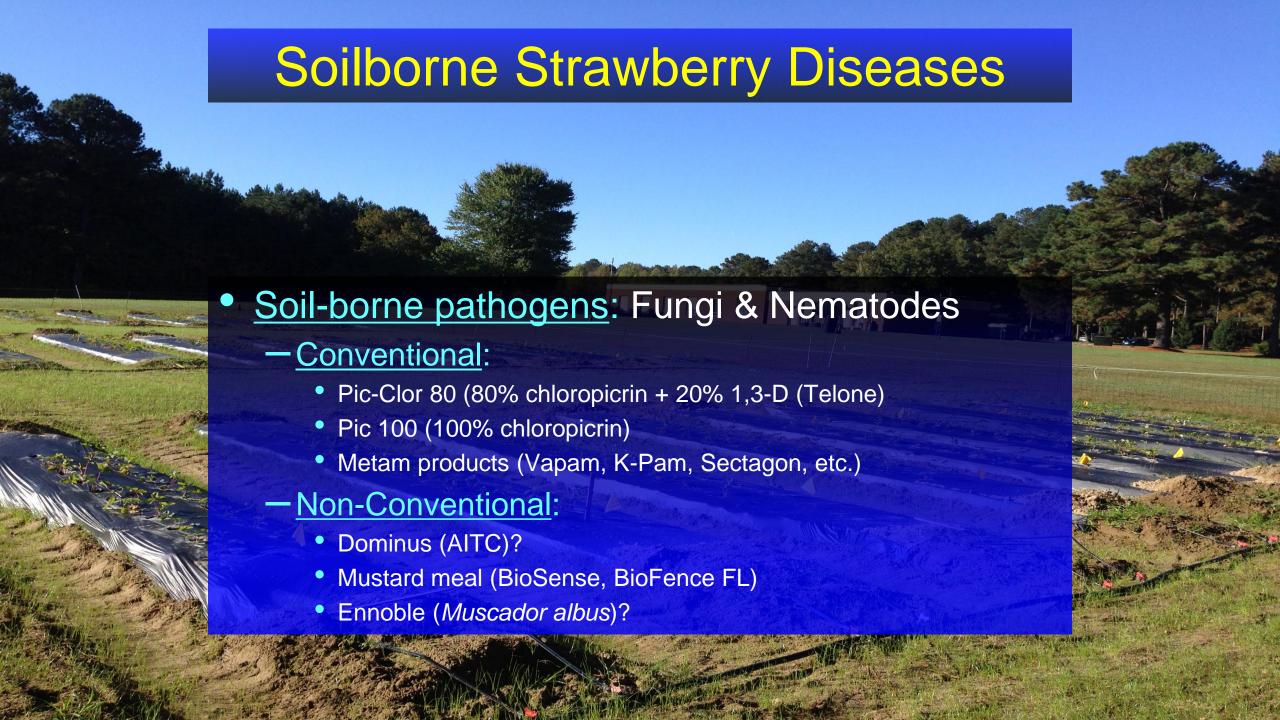




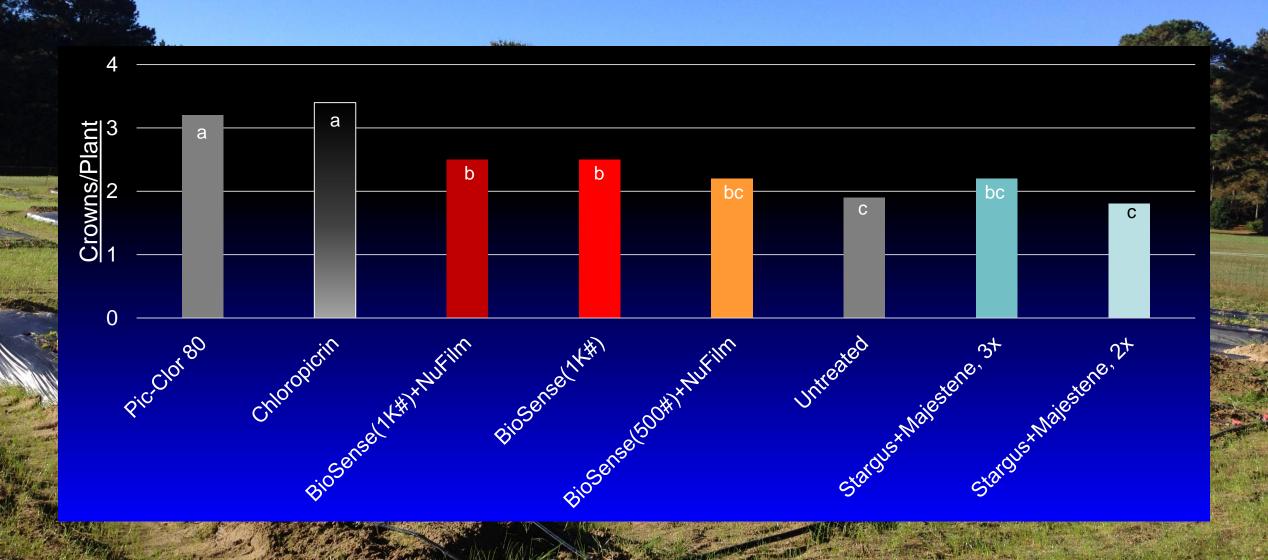








2019 Strawberry Fumigation Test



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