



Features of Pageant Intrinsic as a Fungicide

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Pageant - fungicide characteristics

- ❖ Broad-spectrum (leaf spots, powdery and downy mildew, rust, crown rot and root rot)
- ❖ Long-term prevention
- ❖ Eradication
- ❖ Adjuvants not always needed
- ❖ Controls tough diseases
- ❖ Controls new diseases

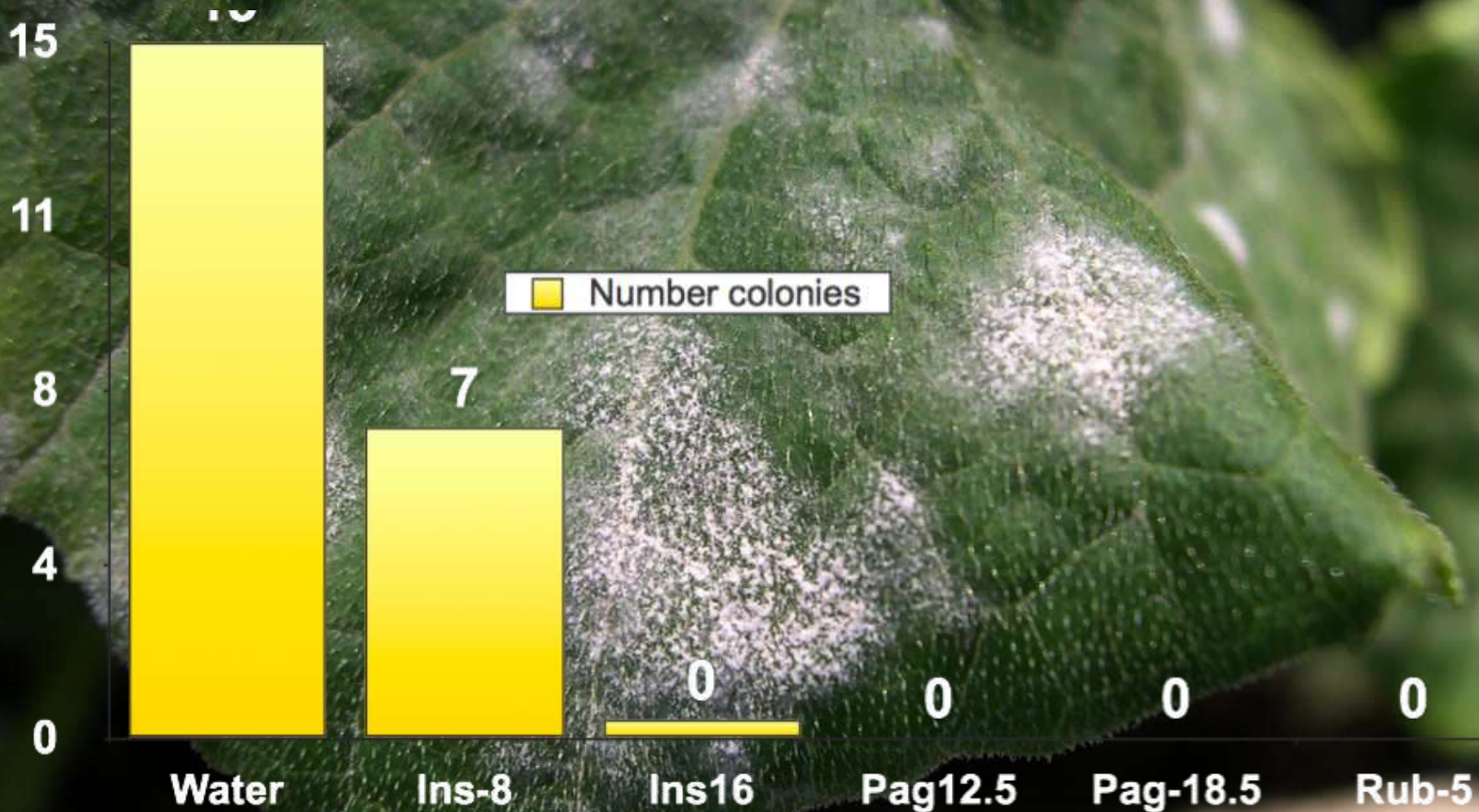


Broad-Spectrum

Pageant Efficacy

Disease	Efficacy
Alternaria leaf spot	very good to excellent
Anthraco nose	very good
Black Spot	good to very good
Botrytis blight	very good to excellent
Cercospora leaf spot	very good
Cylindrocladium	good
Downy mildew	very good to excellent
Fusarium stem rot and wilt	some to good
Myrothecium leaf spot	some
Phytophthora crown rot	variable (none to very good)
Powdery mildew	very good to excellent
Pythium root rot	variable (none to good) able
Rhizoctonia stem rot	excellent

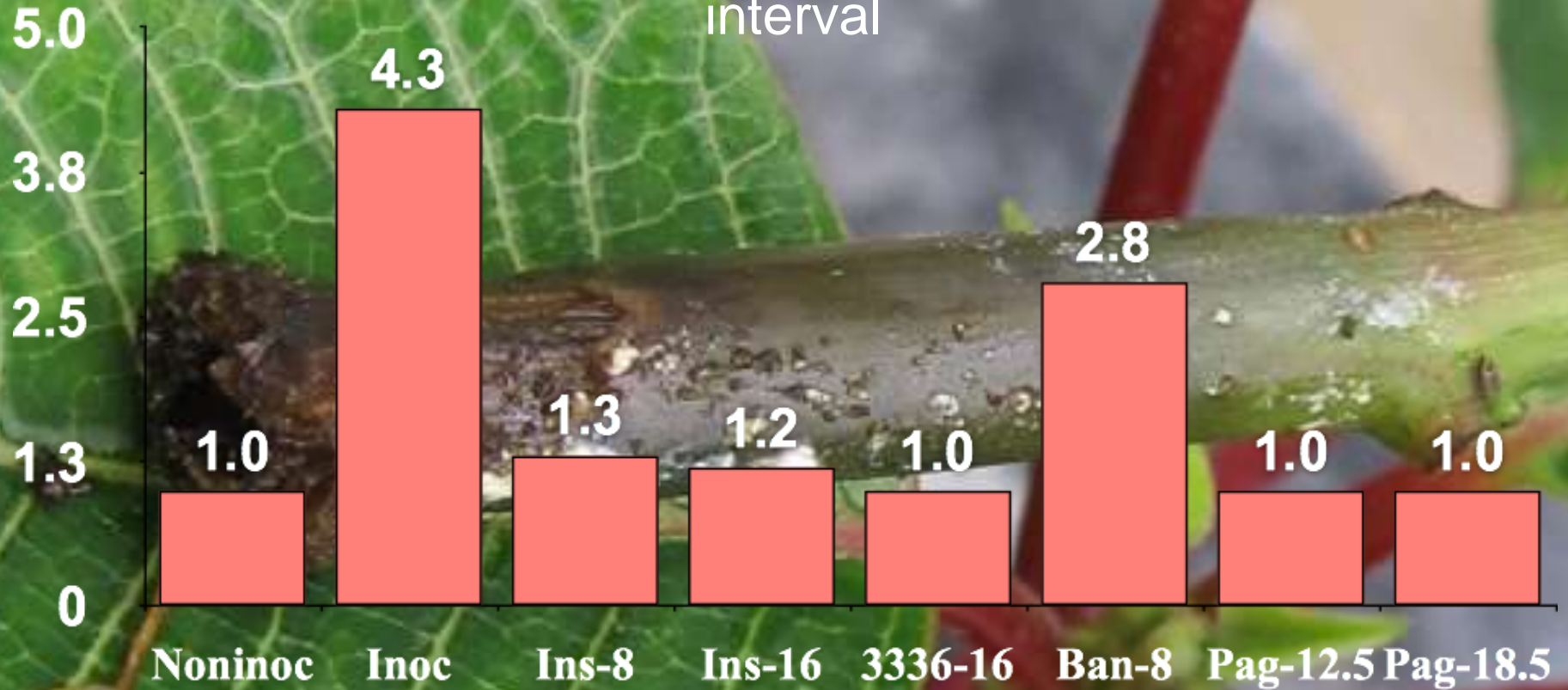
Prevention of powdery mildew on Gerbera



Nine sprays on a
7-day interval

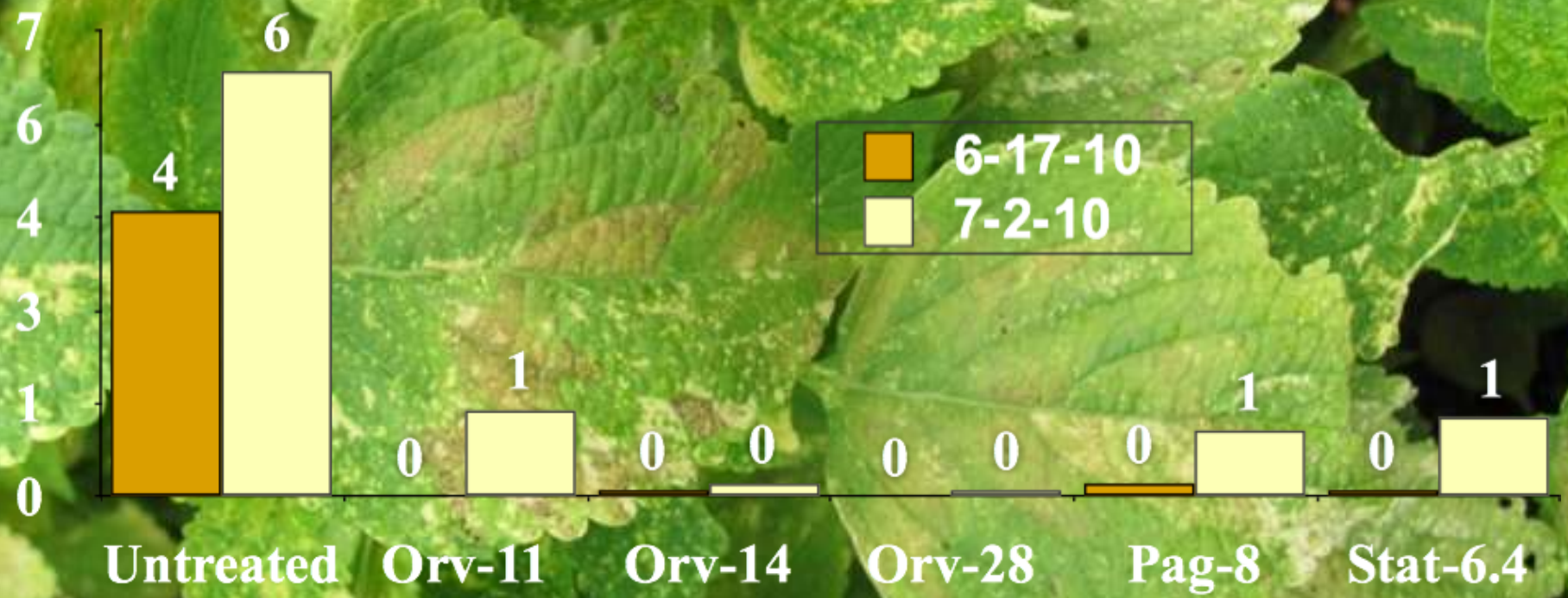
Rhizoctonia cutting rot control on Poinsettia

Two sprays on a 7-day interval



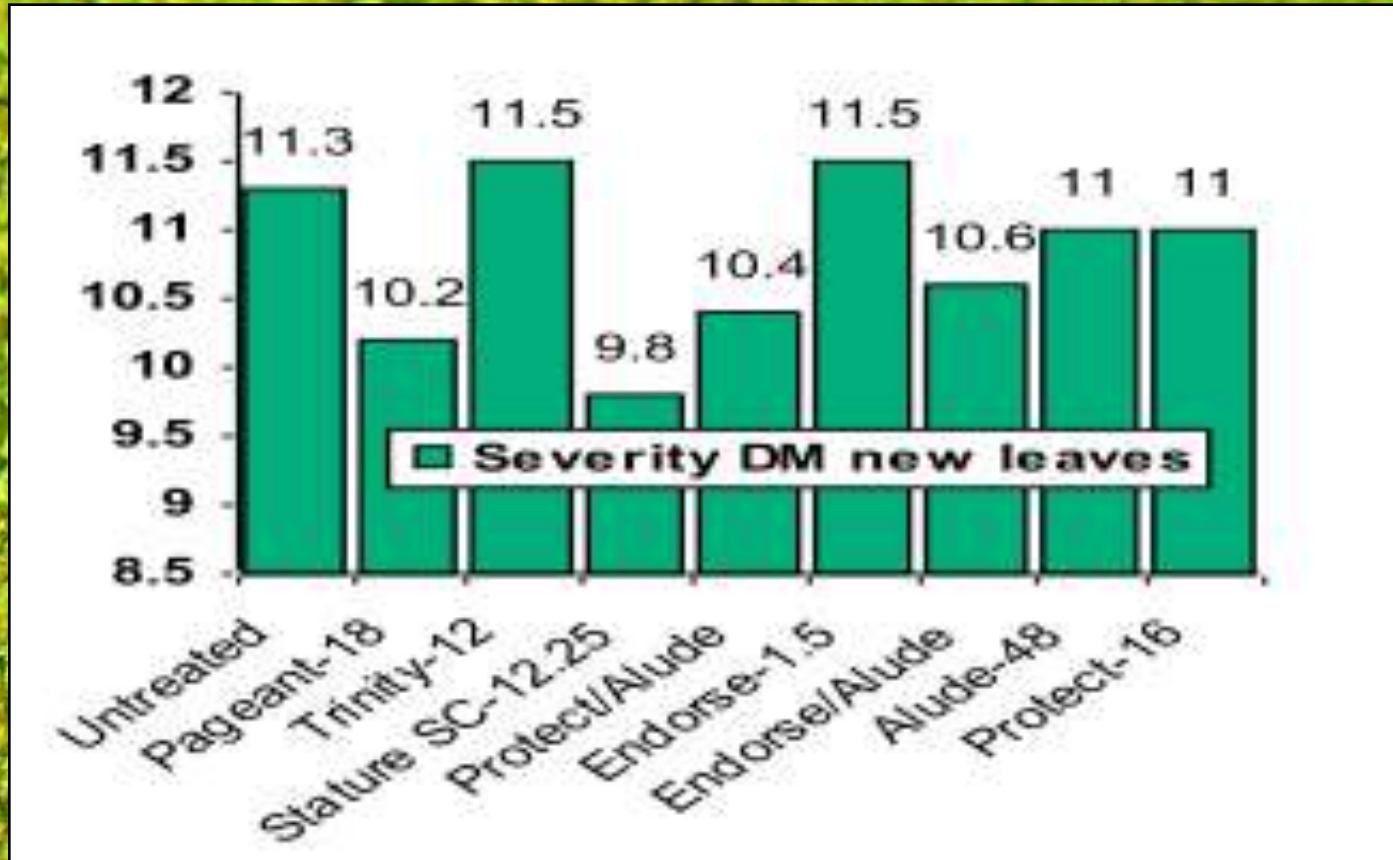
Prevention of Downy mildew on Coleus

Daughtrey, Cornell University



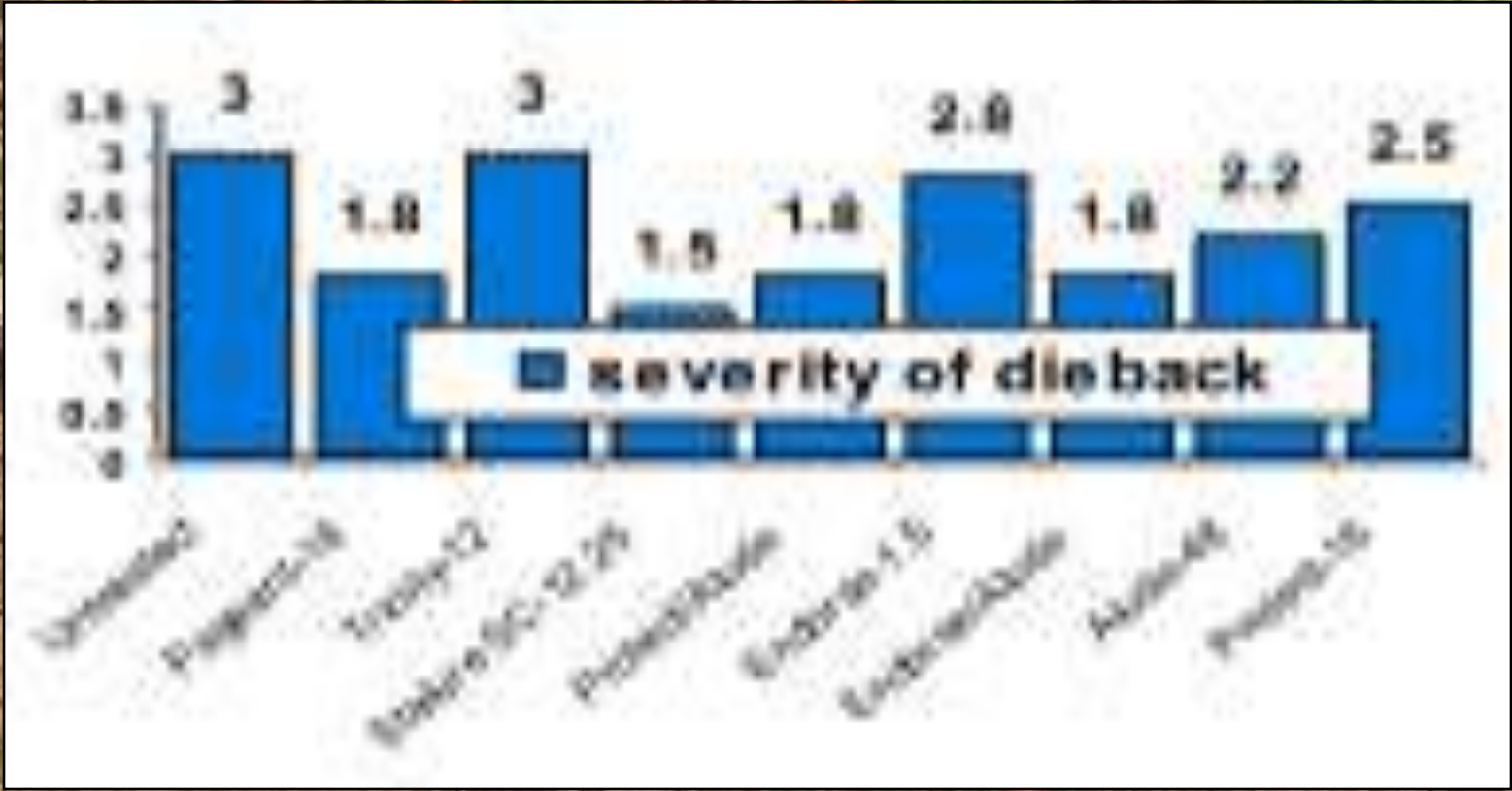
Long-Term Prevention

Controlling Downy Mildew on Rose



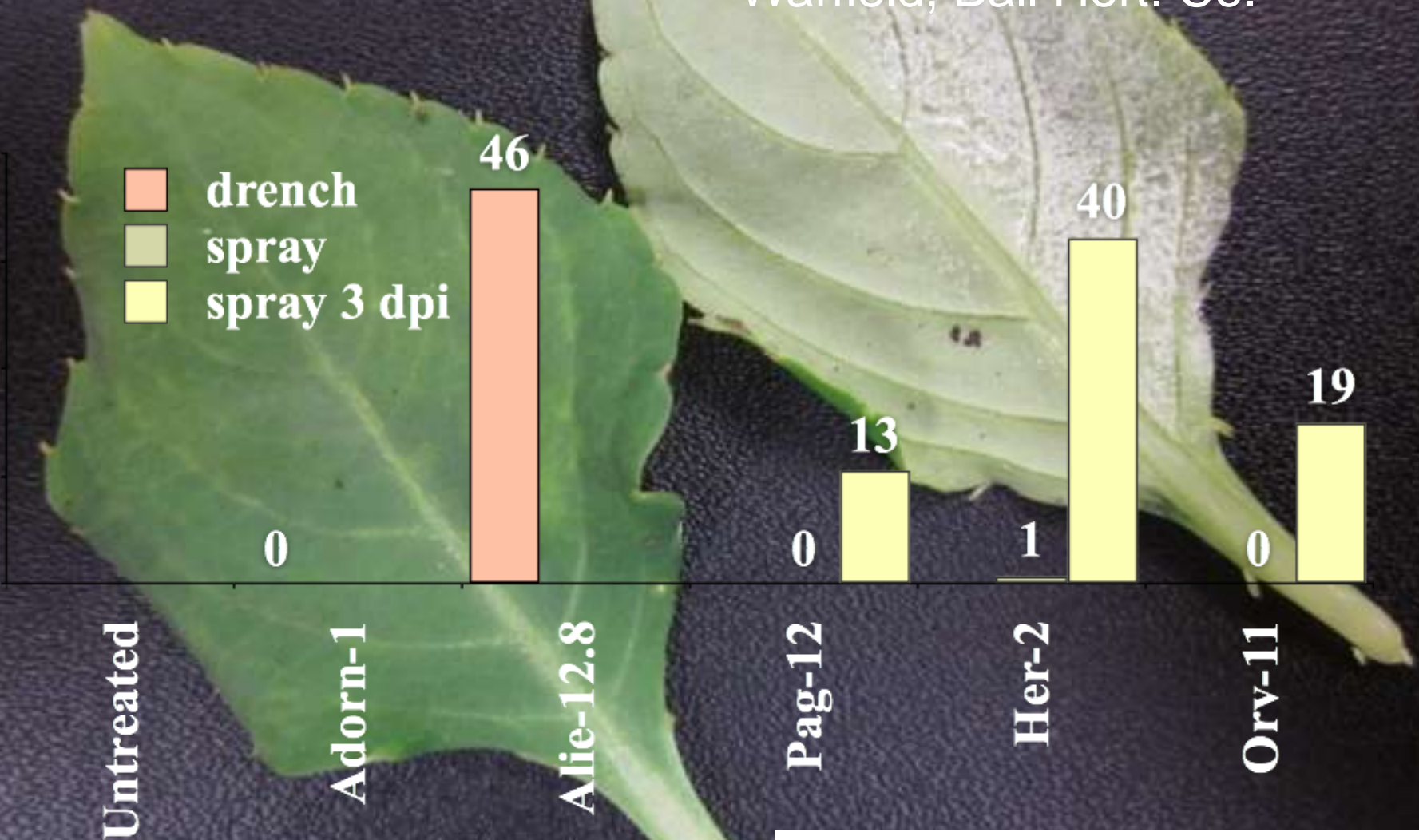
Four sprays on a 7-day interval

Long term prevention of dieback on rose

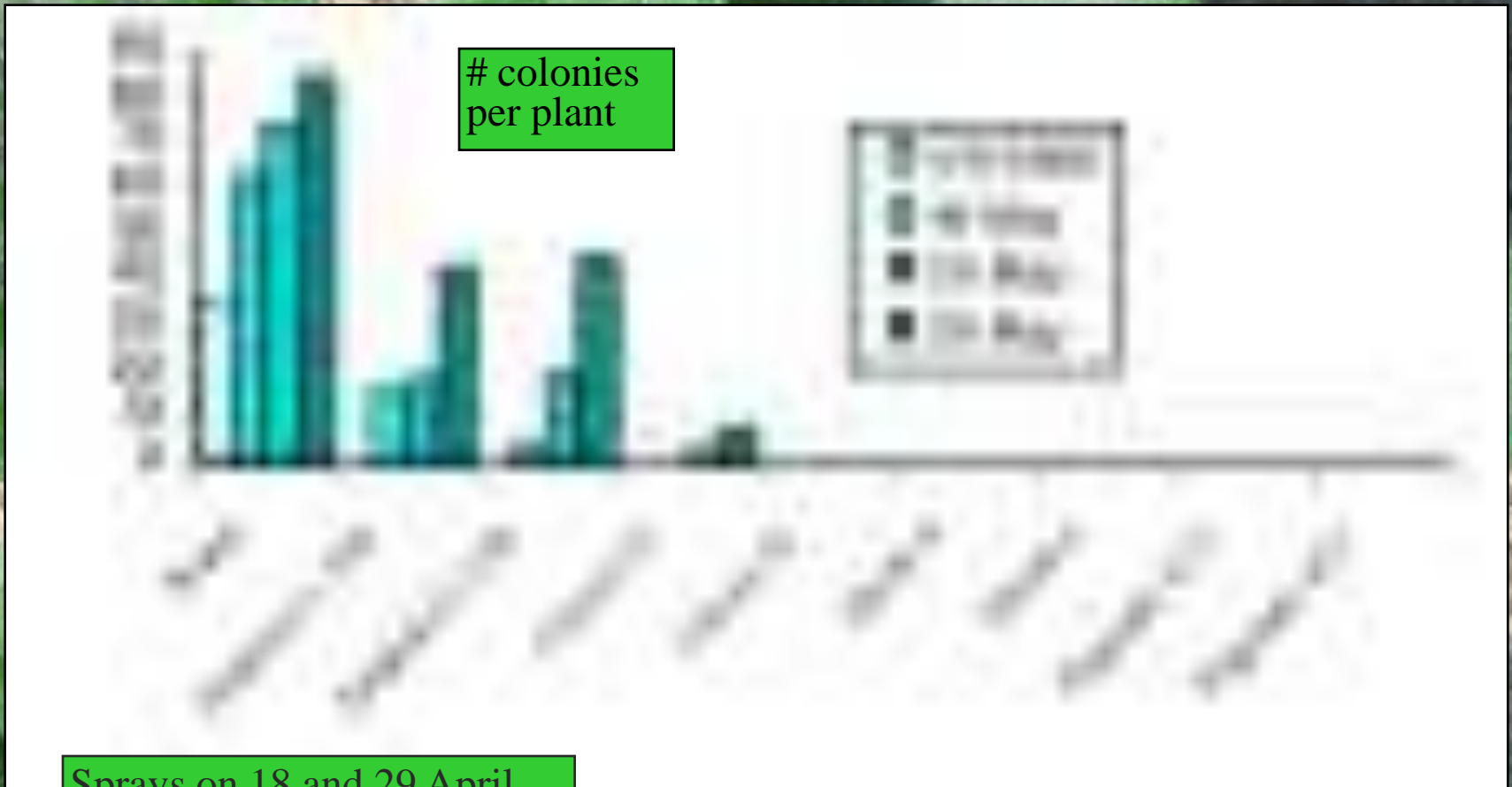


Prevention of Downy mildew on Impatiens

Warfield, Ball Hort. Co.



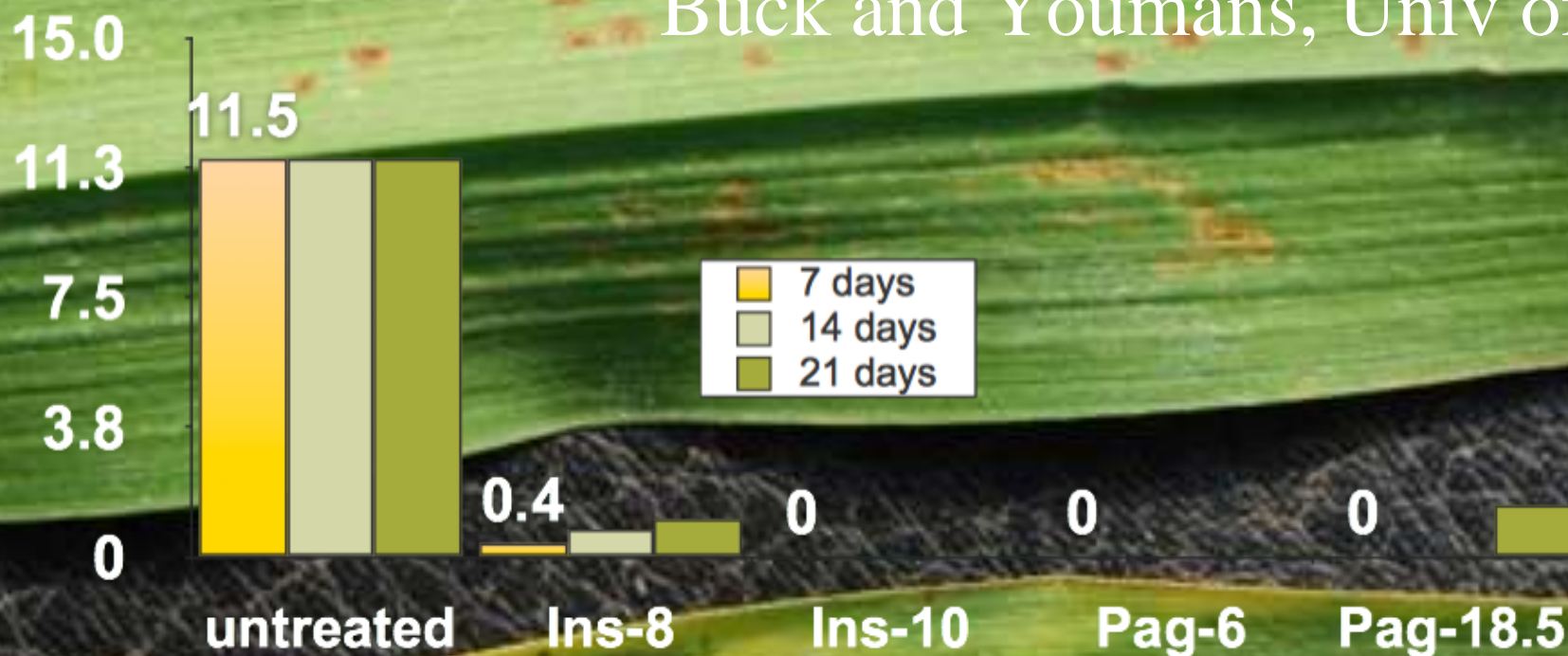
Long-term prevention of Gerbera powdery mildew



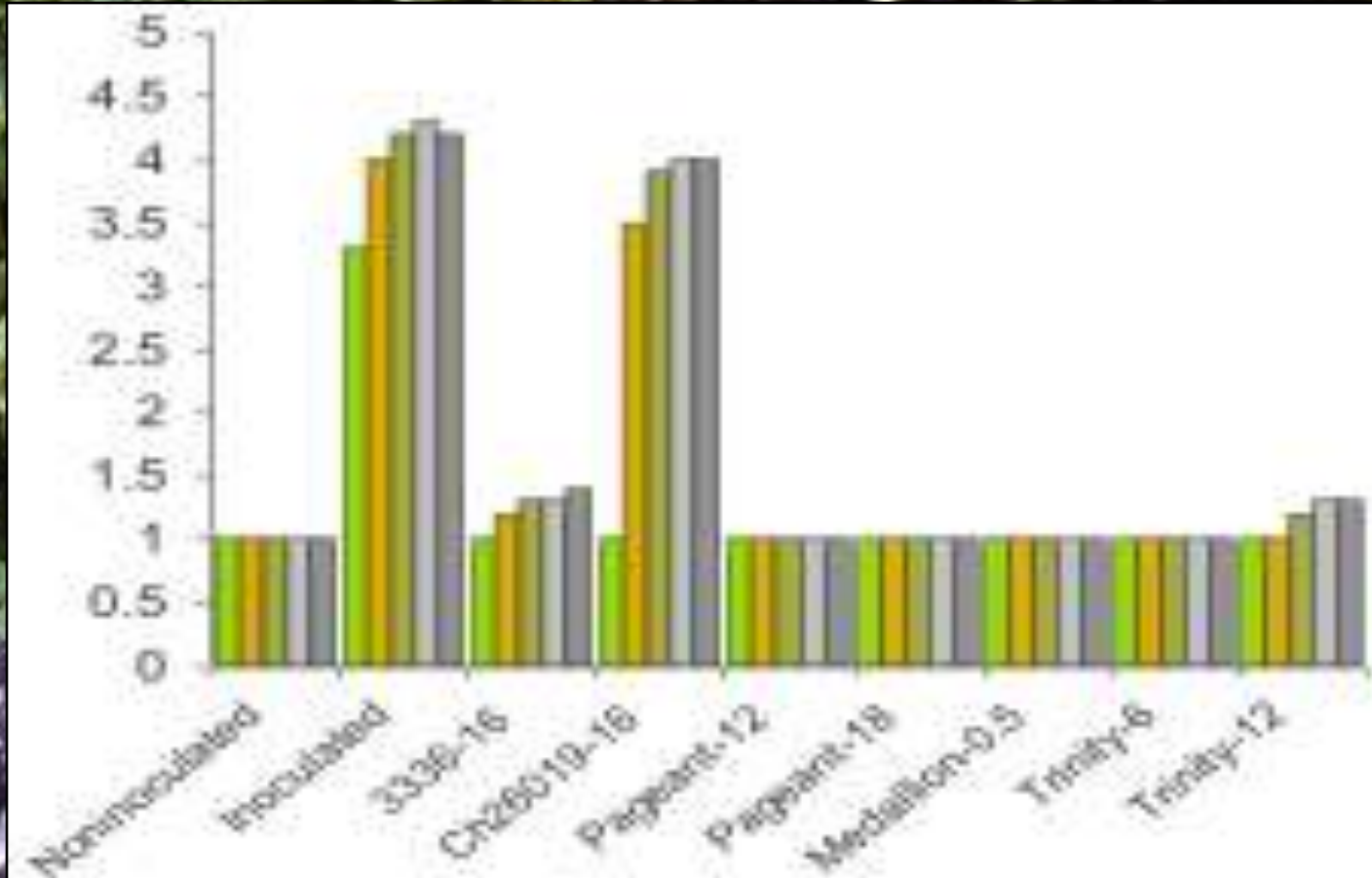
Sprays on 18 and 29 April

Longterm Prevention of Daylily Rust

Buck and Youmans, Univ of GA



Longterm Prevention of Rhizoctonia Stem Rot on Impatiens



Adjuvants not always needed

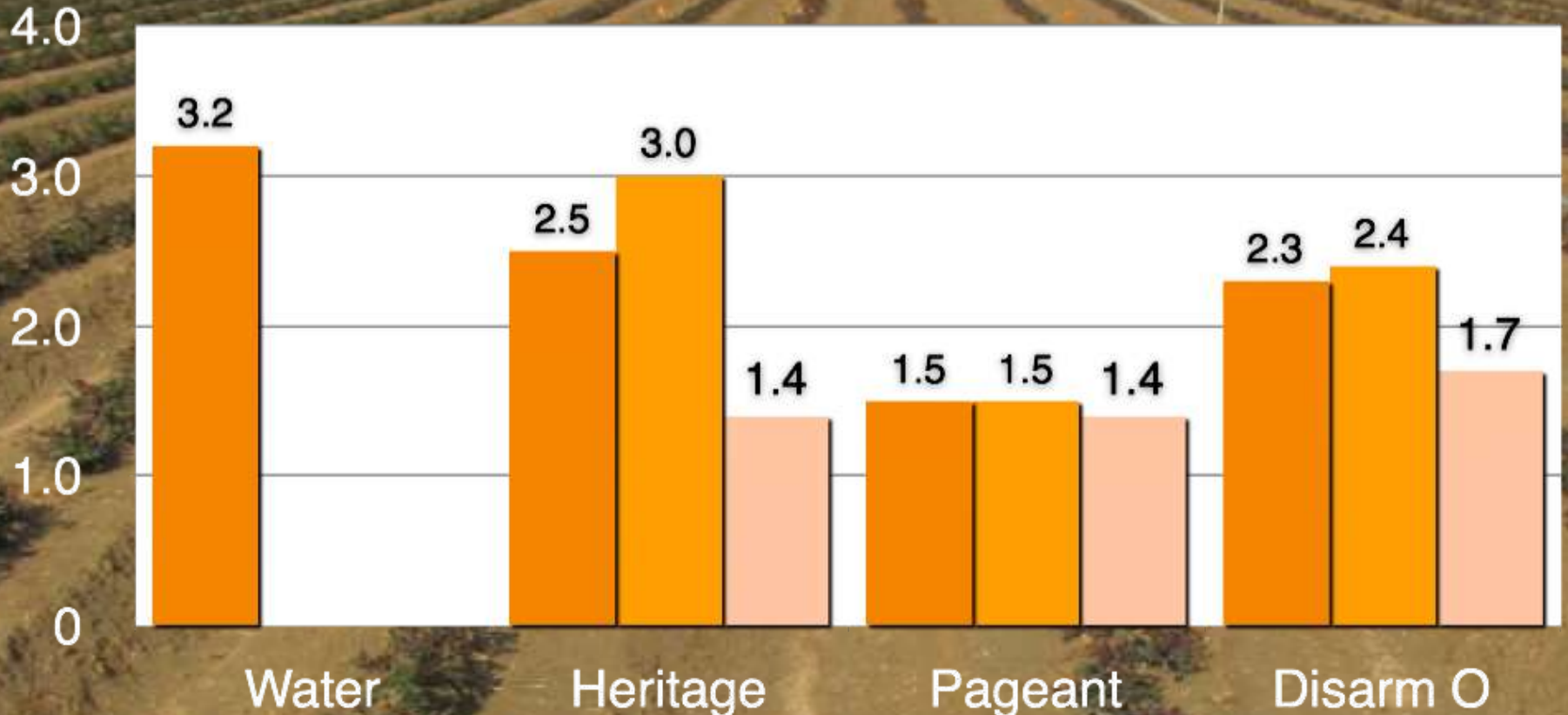
Hypericum rust control

Treatment	Rate/100 gal	Alone	With Latron B 1956
Water	—	16.1 b	Not tested
Compass O	4 oz	4.7 a	1.8 a
Insignia	4 oz	11.8 b	13.3 b
Heritage	4 oz	4.6 a	0.8 a
Pageant	4 oz	2.2 a	2.2 a

Powdery mildew control on rose with strobilurins

(with Gary Osteen)

Dark orange = alone, medium = Bond MAX and pale = Franch

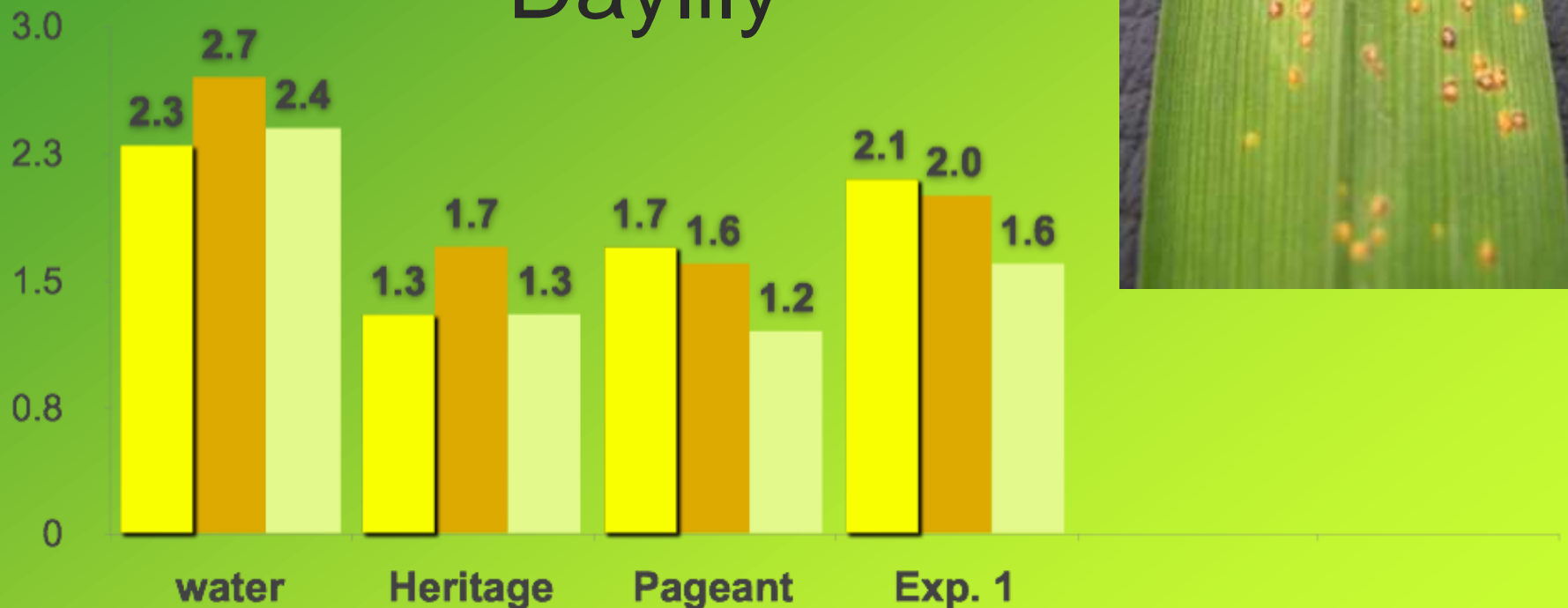


Good Eradicant on Some Diseases

Eradicating Rust on Bellis

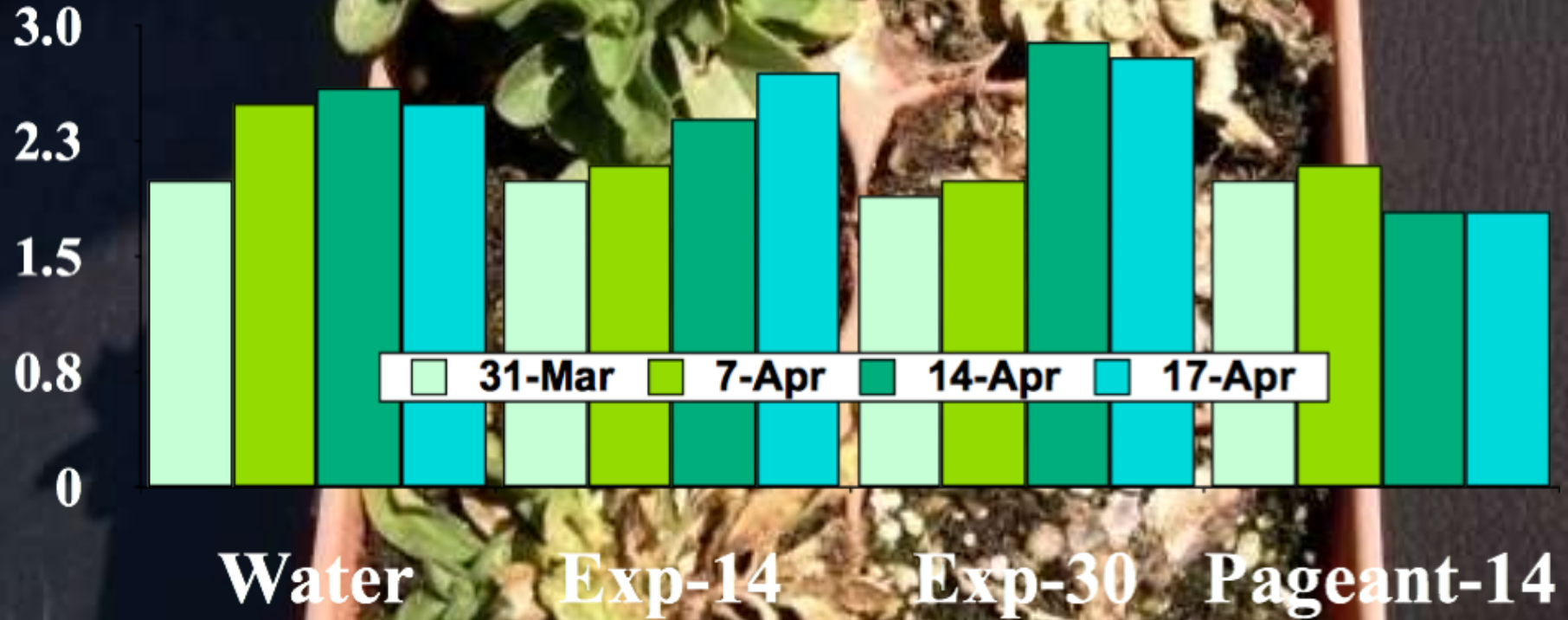


Eradicating Rust on Daylily



Three sprays on a 7 day interval

Eradicating Sclerotinia blight on Lobelia



Controls Tough Diseases

Black spot on rose
Southern blight (*Sclerotium
rolfsii*)

Sclerotinia blight

Anthraco nose (leaf spot,
canker and dieback)

Fusarium wilt, stem and root
rots

Preventing black spot and powdery mildew on Rose –

Mulrooney, University of Delaware

Treatment	Rate/100 gal	Black Spot Control 2006	% Black Spot 2007
Water	—	9.3 f	90 d
Insignia	4 oz	8.0 e	Not tested
Insignia	8 oz	6.3 d	Not tested
Pageant	8 oz	5.5 c	4 bc
Pageant	12.5	3.5 b	1 ab
Eagle	6 oz	2.2 a	0 a

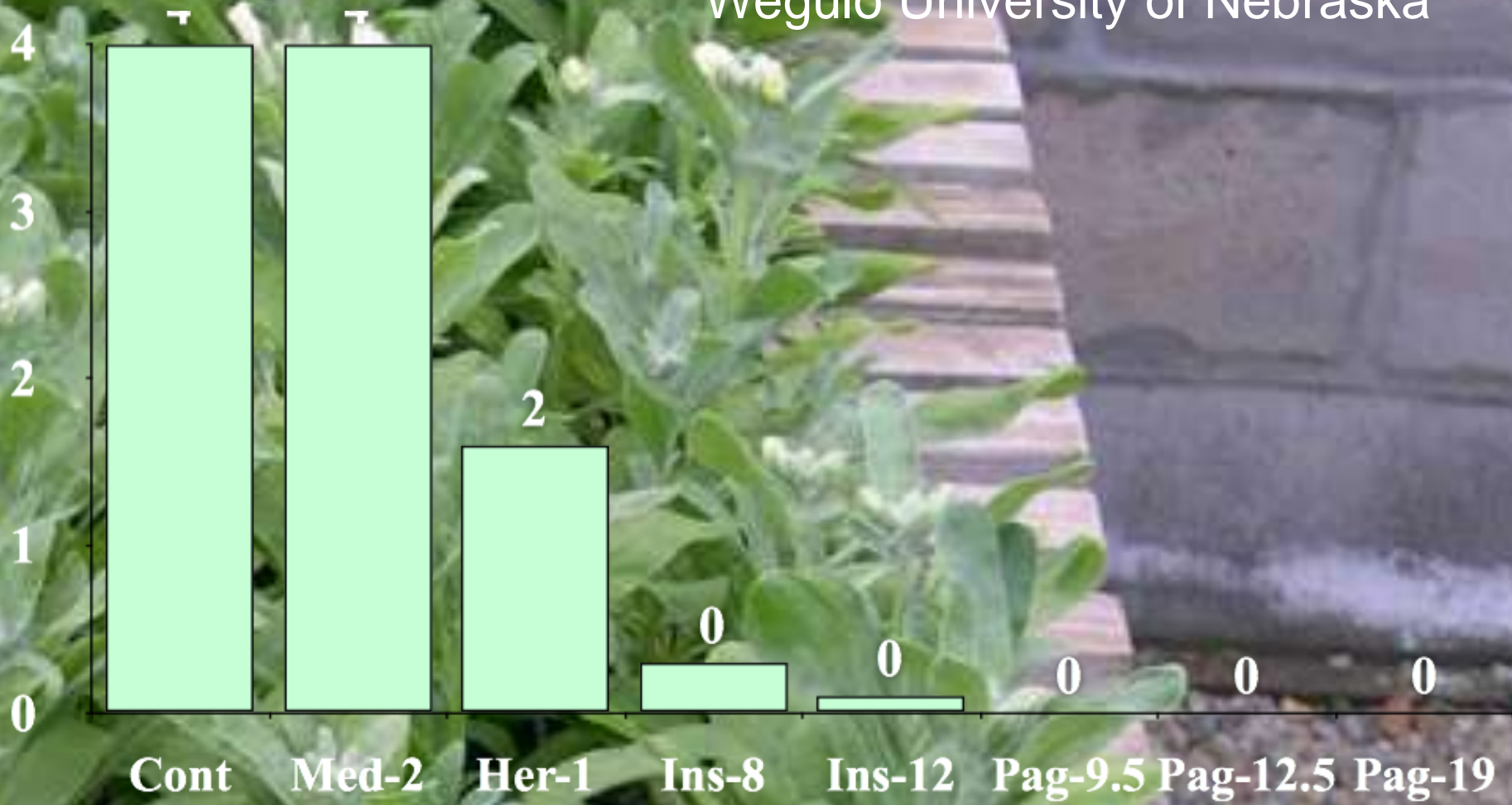
Black Spot Control

Treatment	Rate/100 gal.	Interval	Result
Banner MAXX	4 oz	14 days	some
Compass O	1-4 oz	7-28 days	good (4 oz-14 days)
Daconil Ultrex	1.4 lb	7-14 days	very good to excellent
Eagle 40WP	6 oz	7-14 days	excellent
Insignia	4-12 oz	14 days	poor to good
Medallion	2 oz	14 days	none
Pageant	8-12.5 oz	14 days	good to excellent
Phyton 27	25-40 oz	7-14 days	variable
Rhapsody	5 quart	7 days	poor
Triact	1%	7 days	none

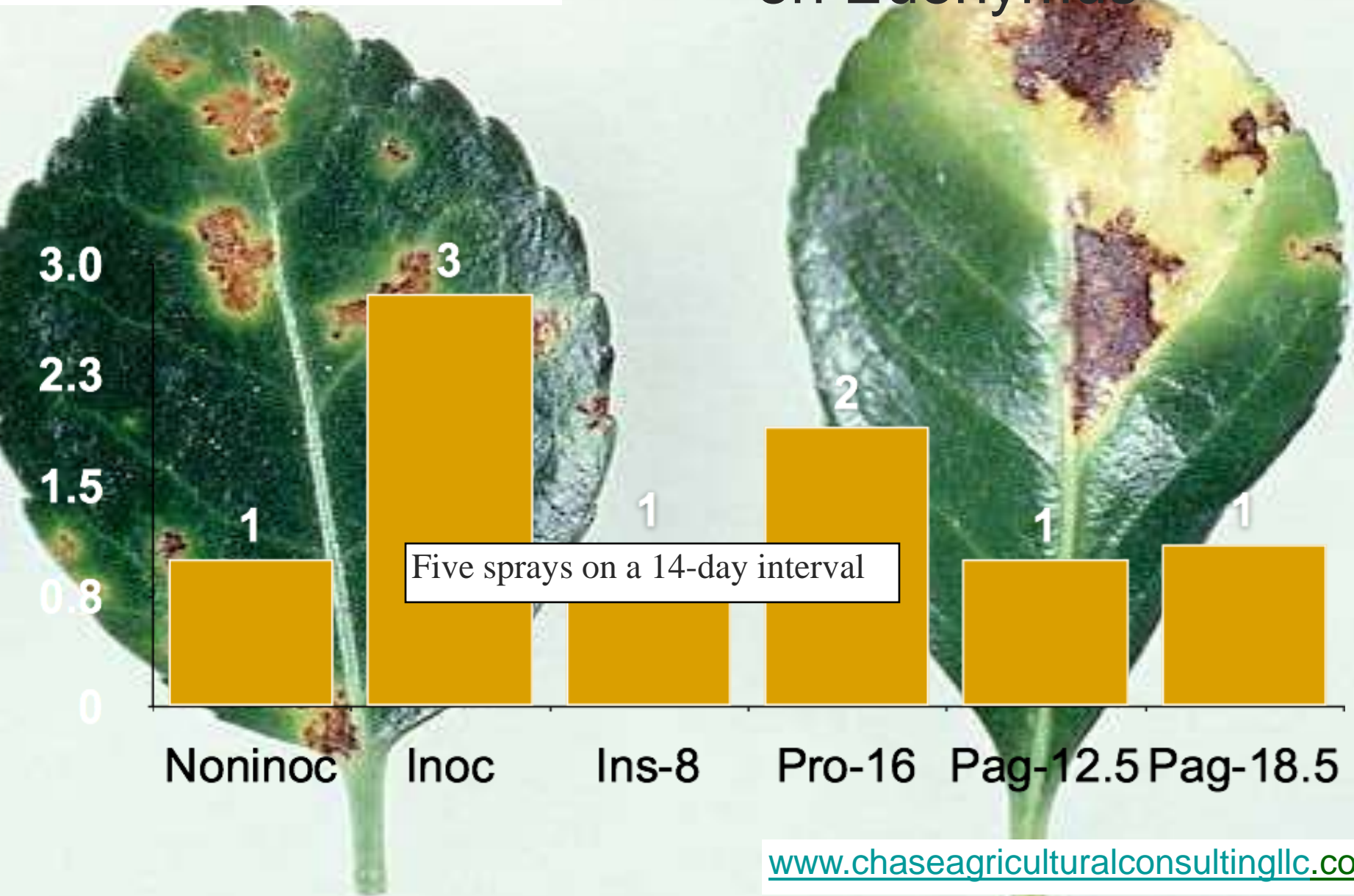
Preventing Southern Blight on Hosta and Aucuba— Hagan, Olive and Stephenson, Auburn University

Treatment	Rate/10 0 gal	Interval (method)	Hosta (% colonized)	Aucuba (% survival)
Noninoculated	-----	-----	0 b	100 a
Inoculated	-----	-----	88 a	25 c
Pageant	18 oz	2 (heavy spray)	0 b	63 abc
Pageant	18 oz	4 (heavy spray)	0 b	88 a
Pageant	18 oz	4 (drench)	13 b	88 a
Trinity	8 oz	2 (heavy spray)	0 b	38 bc
Insignia	8 oz	4 (heavy spray) vy	0 b	88 a
Heritage	8 oz	4 (drench)	0 b	75 ab

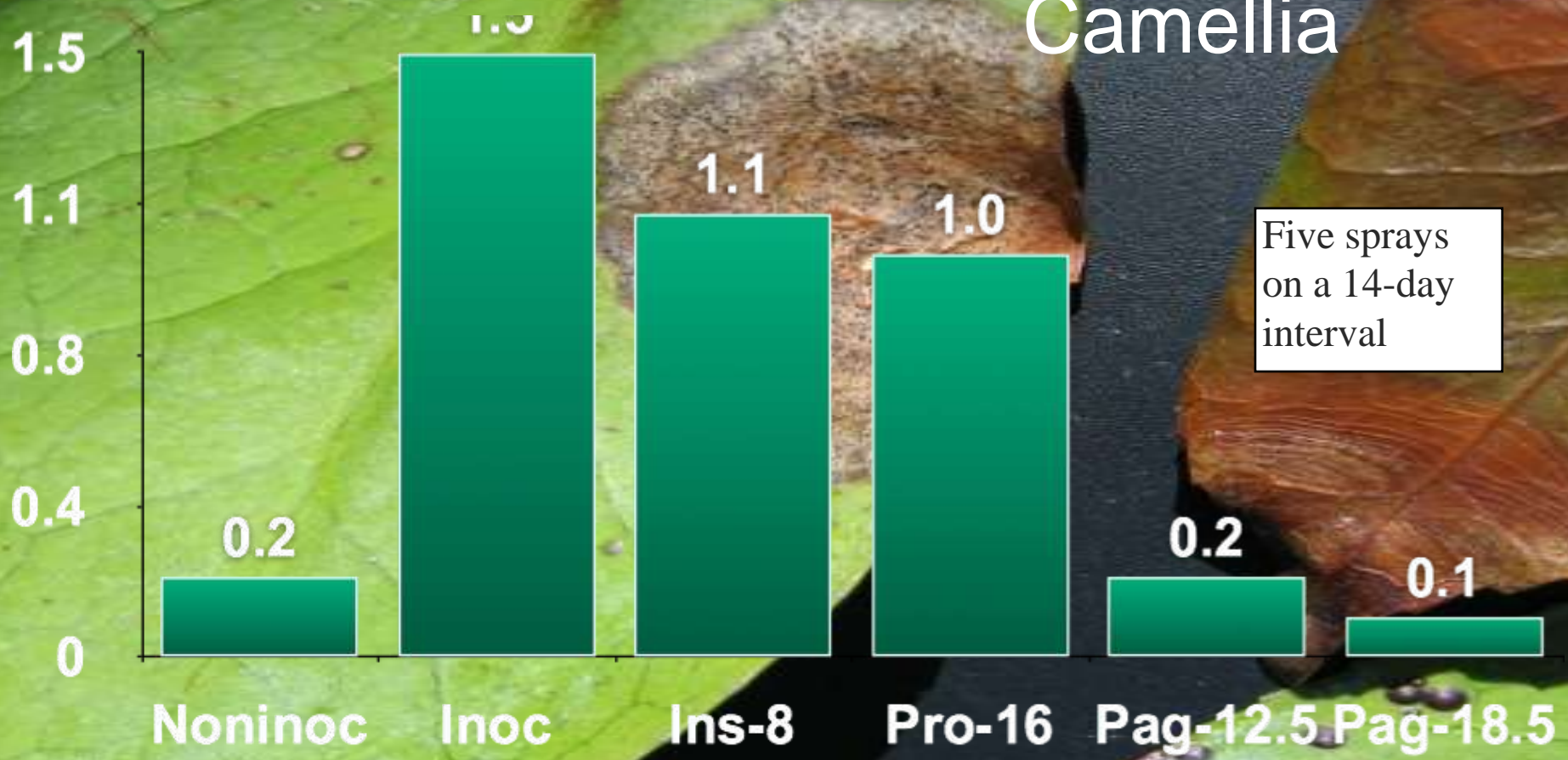
Prevention of Sclerotinia blight on stock – Wegulo University of Nebraska



Prevention of Phyllosticta on Euonymus



Prevention of Colletotrichum Anthracnose on Camellia

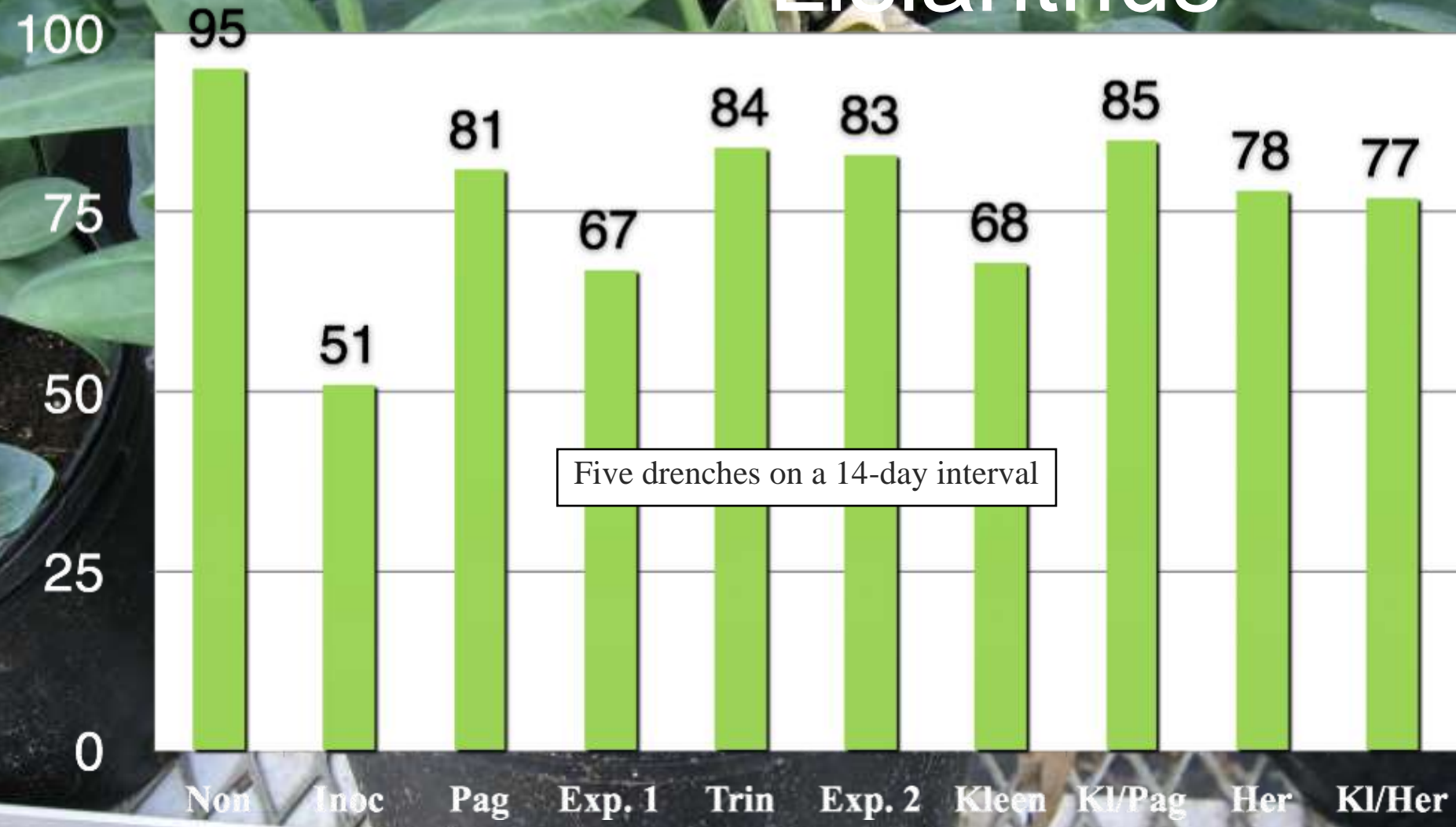


Control of Colletotrichum on cyclamen

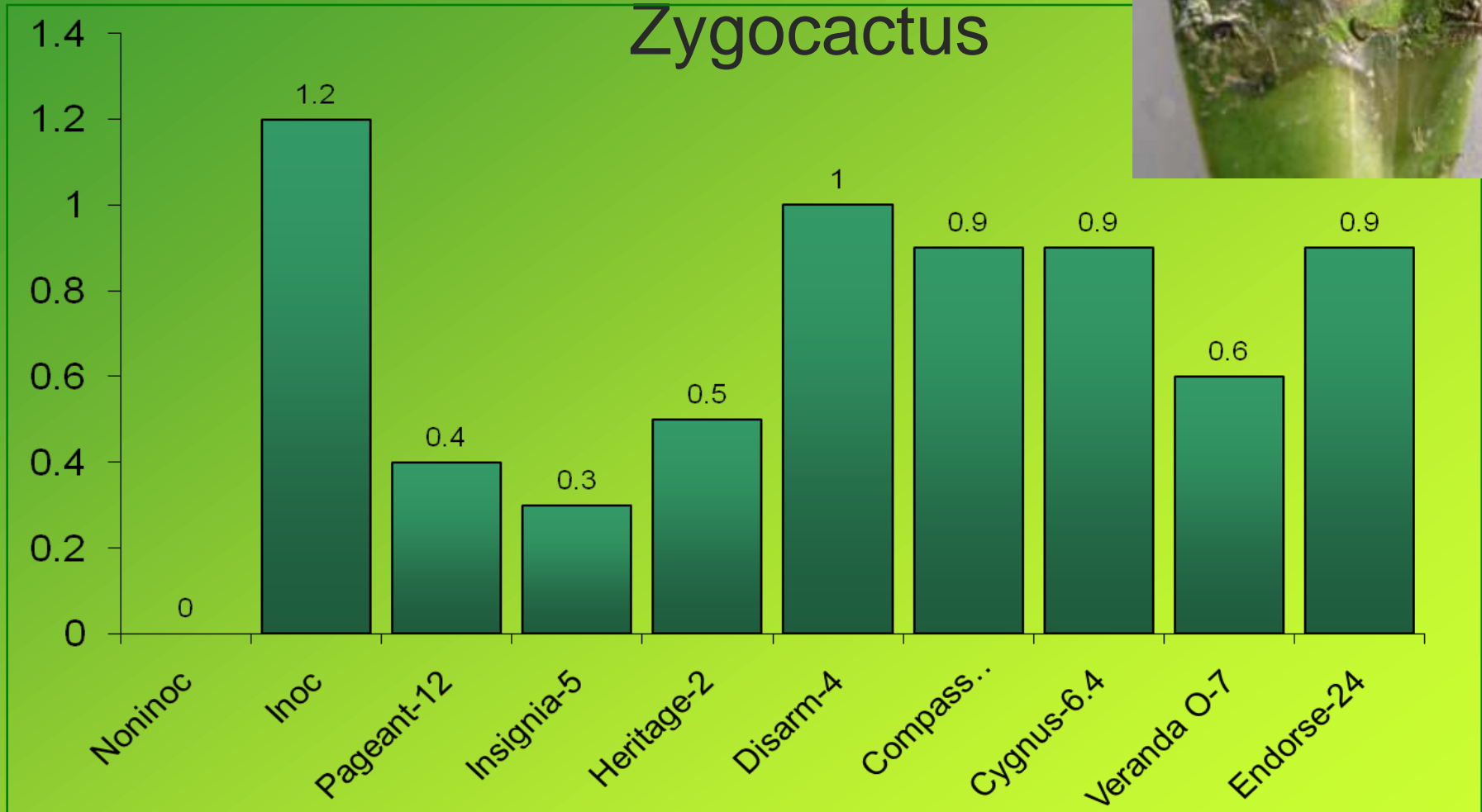


Treatment	Rate/100 gal.	# spots 8-24-11
Water Noninoculated	-----	0.0 a
Water Inoculated	-----	71.7 c
Trinity	4 oz	35.0 b
Trinity	8 oz	42.9 b
Trinity	12 oz	28.5 b
Trinity	24 oz	30.1 b
KleenGrow	12.5 oz	69.2 c
Pageant	18 oz	3.3 a

Fusarium wilt on Lisianthus



Prevention of Fusarium Stem Rot on Zygocactus



Two sprays on a 7 day interval



Controls New Diseases



Downy mildew on
coleus, impatiens
Boxwood blight
(*Cylindrocladium*)

Impatiens Downy mildew

Daughtrey, Cornell University

The impatiens downy mildew, *Plasmopara obducens*, has been present in this country since at least 1897, when it was reported from Vermont on wild relatives of today's flower crop. Both *Impatiens pallida* and *Impatiens capensis* can host this disease; these species grow as wildflowers all over the Eastern United States

The problem now striking the horticultural industry in the United States dates back to 2004, one year after the problem was first reported from the UK. A few greenhouses in NY and other states reported the problem in 2004, but the disease did not cause serious losses.





Product (MOA)	Commercial Landscape	Nursery	Greenhouse
Adorn (43) (tank-mix)	yes	yes	yes
Aliette (33)	yes	yes	yes
FenStop (11)	no	no	yes
Heritage (11)	yes	yes	yes
Pageant (7 and 11)	yes	yes	yes
Protect (M5)	yes	yes	yes
Segway (21)	yes	yes	yes
Stature (40)	no	yes	yes
Vital (33)	yes		

In October 2011, a disease of boxwood new to the United States was identified as boxwood blight, caused by the fungus *Cylindrocladium pseudonaviculatum*. To date, boxwood blight has also been found in Connecticut, North Carolina, Virginia, Maryland, Rhode Island, New York, Massachusetts, Ohio, Oregon, and British



It not known how the pathogen was introduced into the U.S.

The pathogen has since been found on Pachysandra in Connecticut.

Box Blight



Brown/black stem cankers and lesions



Cylindrocladium leaf spot on Myrtle



Best Guess for Box Blight Control

fungicide	rate/100 gal	efficacy
Heritage	2-4 oz	some to very good
Insignia	8-16 oz	some to very good
Medallion	2 oz	excellent
Pageant	12-16 oz	good to excellent
Palladium	4-6 oz	very good
Terms and conditions	8 oz	very good

Chase Agricultural Consulting , LLC

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