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UNIVERSITY *of* FLORIDA

# Algal Spot

Funding



# Algal Spot



- An old problem, re-emerging anew
- Many different growers affected in most citrus production regions
- An increasing concern

# Algal Spot

## Branch Symptoms



- Gray-green much of year
- Summer fruiting bodies very visible with raised, velvety, red lesions around gray center
- Lesions generally  $\frac{1}{2}$  inch, but can join to cover entire branch
- First symptom is bark thickening around lesions

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## Branch Cracking

- Can lead to bark cracking and loss of bark in small pieces
- If extreme, branches stunt with leaf chlorosis and drop
- Branches up to 2 inches dia. can be killed

# Algal Spot

## Current Treatment Recommendations



- Three application timings:
  - 1) late January to early February
  - 2) post-bloom
  - 3) mid-June
- Recommend phosphite salts at 0.5 gal in 125 gal/acre
- Ensure enough coverage to wet the wood adequately

# Algal Spot

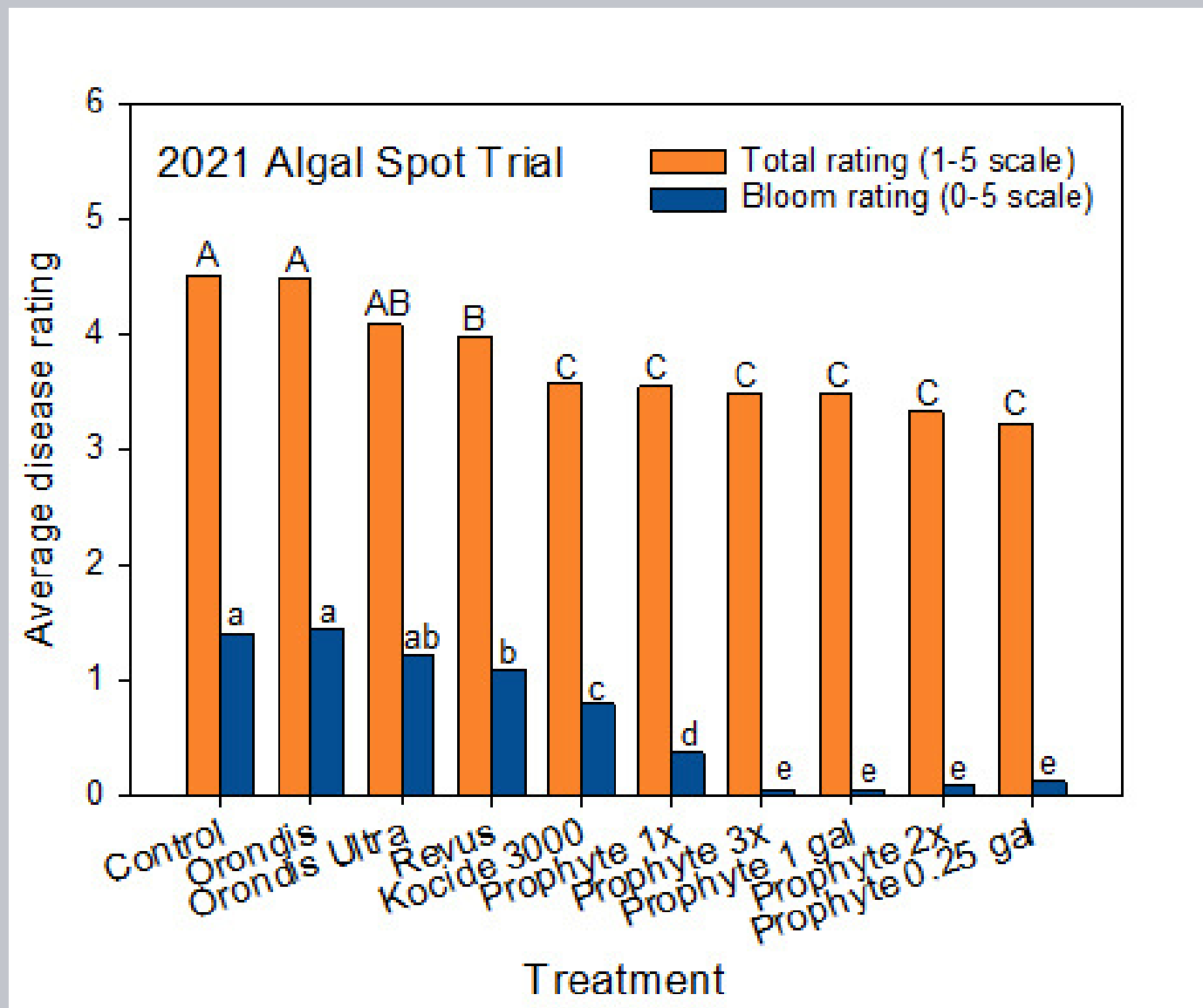
## Treatments in 2021 Trial

- Three application timings:
  - Feb 10
  - May 7
  - June 22
- Most treatments (see details on last slide) applied at all three timings
- Looked at effect of timing with ProPhyte (1/2 gal/acre) with applications at all three timings, May and June, or June



# Algal Spot

## Results of 2021 Trial

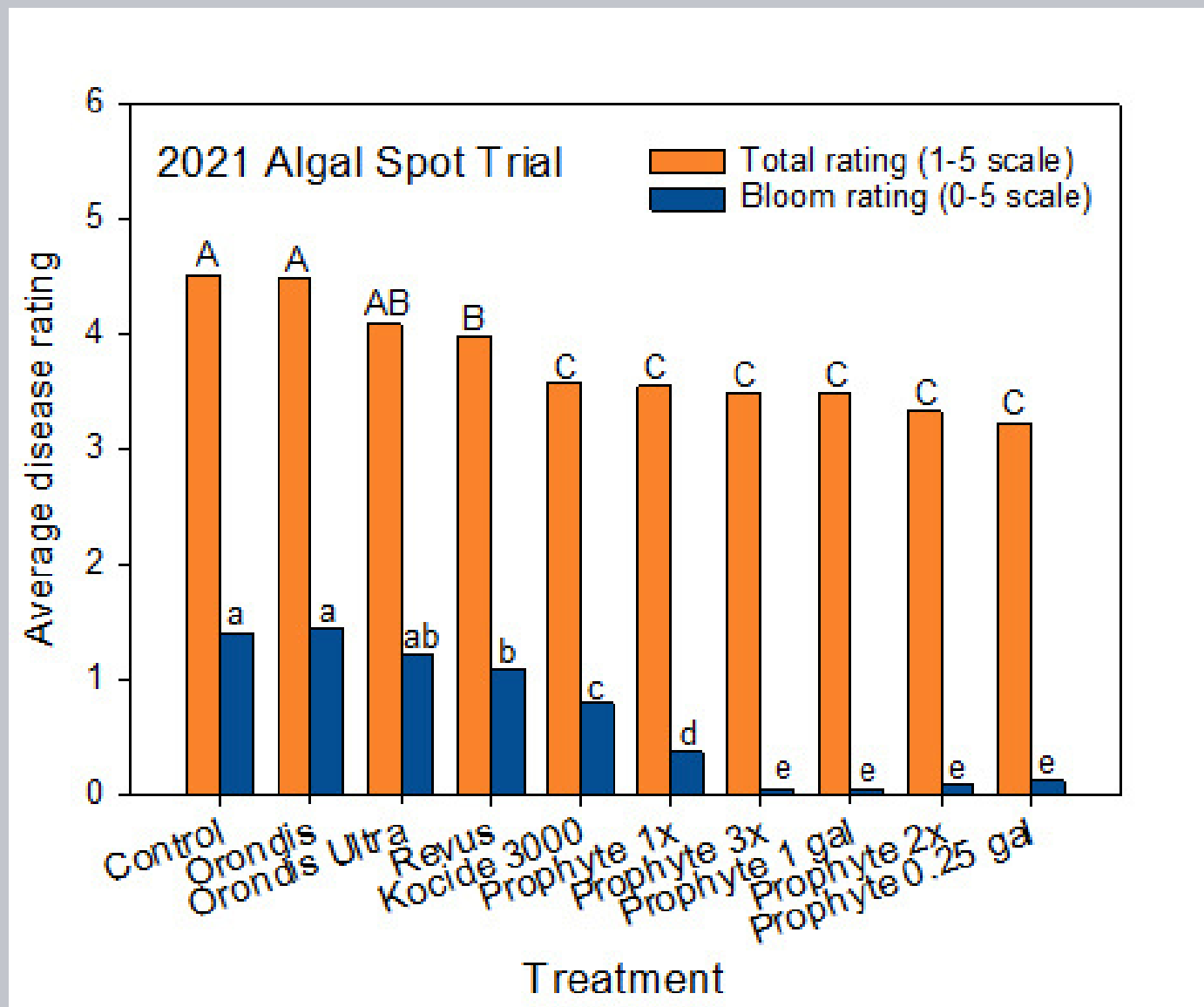


- Measured total branch area affected (orange bars)
- Measured effect on bloom which is the red growth (blue bars)
- ProPhyte reduced total area affected and amount of bloom
- ProPhyte effect greater on bloom



# Algal Spot

## Results of 2021 Trial (continued)



- Applying ProPhyte ( $\frac{1}{2}$  gal/acre) 2 or 3 times per season equally effective
- Applying once when algal spot blooming can reduce disease, but preferable to apply at least twice
- No bloom, reduced spread

# Algal Spot

PRODUCT	TIMING (2021)	RATE/ACRE
Revus	Feb 10, May 7, June 22	8 fl oz
Orondis	Feb 10, May 7, June 22	2.6 fl oz
Orondis Ultra	Feb 10, May 7, June 22	8 fl oz
ProPhyte	Feb 10, May 7, June 22	¼ gal
ProPhyte	Feb 10, May 7, June 22	1 gal

## Treatment Details for 2021 Trial

PRODUCT	TIMING (2021)	RATE
Kocide 3000	Feb 10, May 7, June 22	2.23 lbs (metallic)
ProPhyte	Feb 10, May 7, June 22	½ gal
ProPhyte	May 7, June 22	½ gal
ProPhyte	June 22	½ gal
Untreated Control	--	--