



FBGA Research Priorities Committee

2024 FBGA Fall Meeting

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FBGA Research Priorities

- Committee of FBGA Board Members
 - Charge is to formalize a list of prioritized research needs for the Florida Blueberry Industry
 - A draft list of topics has been put together with Board of Directors' input
 - We'd like to get your input!
 - What are the most important research needs for your farm?
- Result of this effort will be a research priorities publication, outlining prioritized needs



FBGA Research Priorities

- Breeding-Cultivar development, improvement
- Horticulture
- Pest and Disease Management
 - Entomology-insect pests
 - Nematology-replant disorder
 - Pathology-diseases
 - Weeds
- Pollination
- Biological control/organic options



FBGA Research Priorities

- Breeding-Cultivar development, improvement
 - Increase yield, firmness, pest and disease resistance, flavor, machine harvestability
- Entomology-Control measure development for:
 - Chili thrips, mites, gall midge, diaprepes
 - Rankings of varieties for tolerance to pests
 - Spray timing, rotations, rates, economic returns
- Nematology-investigate replant disorder
 - Survey, fumigation work
- Weeds-Additional control options for:
 - Sedge, perennial grasses, QuinStar safety for FL
 - Plant safety, specifically when carrying fruit
 - Evaluate combinations, reduce PHI's for glufosinate, organic options
- Pathology-Control options for:
 - Rust, root rot, stem blight, anthracnose, bacterial wilt
 - Refine effectiveness ratings, economic return studies
 - Overhead vs drip irrigation impacts on disease
 - Methods to limit spread of pathogens to limit risk, sanitation efforts
 - Root girdling, sucker removal, stem blight



FBGA Research Priorities

Continued

- Horticultural practices-
 - Variety specific pruning practice effects on yield for machine harvesting
 - Renewal pruning practices vs renovation, economic thresholds for evergreen and deciduous
 - Plant spacing and density multi-year multi variety research
 - Precocious varieties recommendations to maximize yr1 yield, crop insurance implications
 - Phosphorous and other nutrient management impact on fruit quality and yield
 - Nitrogen needs for crop production leading to and through harvest, crop load impacts, slow release tech
 - Fruit drop, red cap, pollination, fert impacts on fruit abortion (Sentinel, Meadowlark, Optimus)
 - Mechanization, fruit toughening practices, new harvest tech
 - Pine bark alternatives, coco,
 - Low temp impact and damage studies at different floral and fruit development stages (water conservation)
- Pollination
 - Flower visitation studies with yield prediction by AI to promote market stability
 - Cross pollination partners, interplant density requirements
- Biological control
 - Development and evaluation of biological control products/solutions



Continued effort

Annual survey (2024)

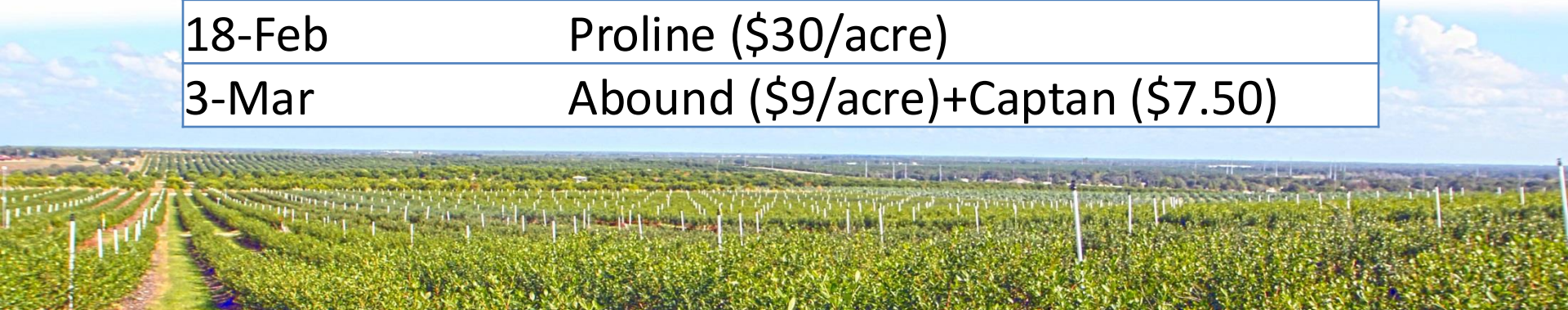
Most Prob. Disease	Mentions	Top 5 Mentions	
leaf rust	15	leaf rust	22
algal stem blotch	7	algal stem blotch	13
anthracnose fruit rot	5	phyt. root rot	12
Phytophthora root rot	4	anthracnose fruit rot	11
Ralstonia bacterial wilt	4	stem blight	7
stem blight	2	ralstonia bac. Wilt	6
cercospora leaf spot	1	target spot	4
target spot	1	cercospora leaf spot	1



Prices will vary

- Example calendar spray (rust) evergreen

15-Oct	Bravo (\$15 to \$20/acre)
29-Oct	Indar (\$17/acre)
12-Nov	Bravo (\$15 to \$20/acre)
26-Nov	Tilt (\$6/acre)
10-Dec	Bravo (\$15 to \$20/acre)
24-Dec	Proline (\$30/acre)
7-Jan	Quilt Xcel (\$19/acre)
21-Jan	Aprovia (\$60/acre) ← only lowbush!
4-Feb	Quash (\$25/acre)
18-Feb	Proline (\$30/acre)
3-Mar	Abound (\$9/acre)+Captan (\$7.50)



Feedback

- Critical research needs
 - What did we miss?
 - What is most important to you?

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Any Questions?

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