

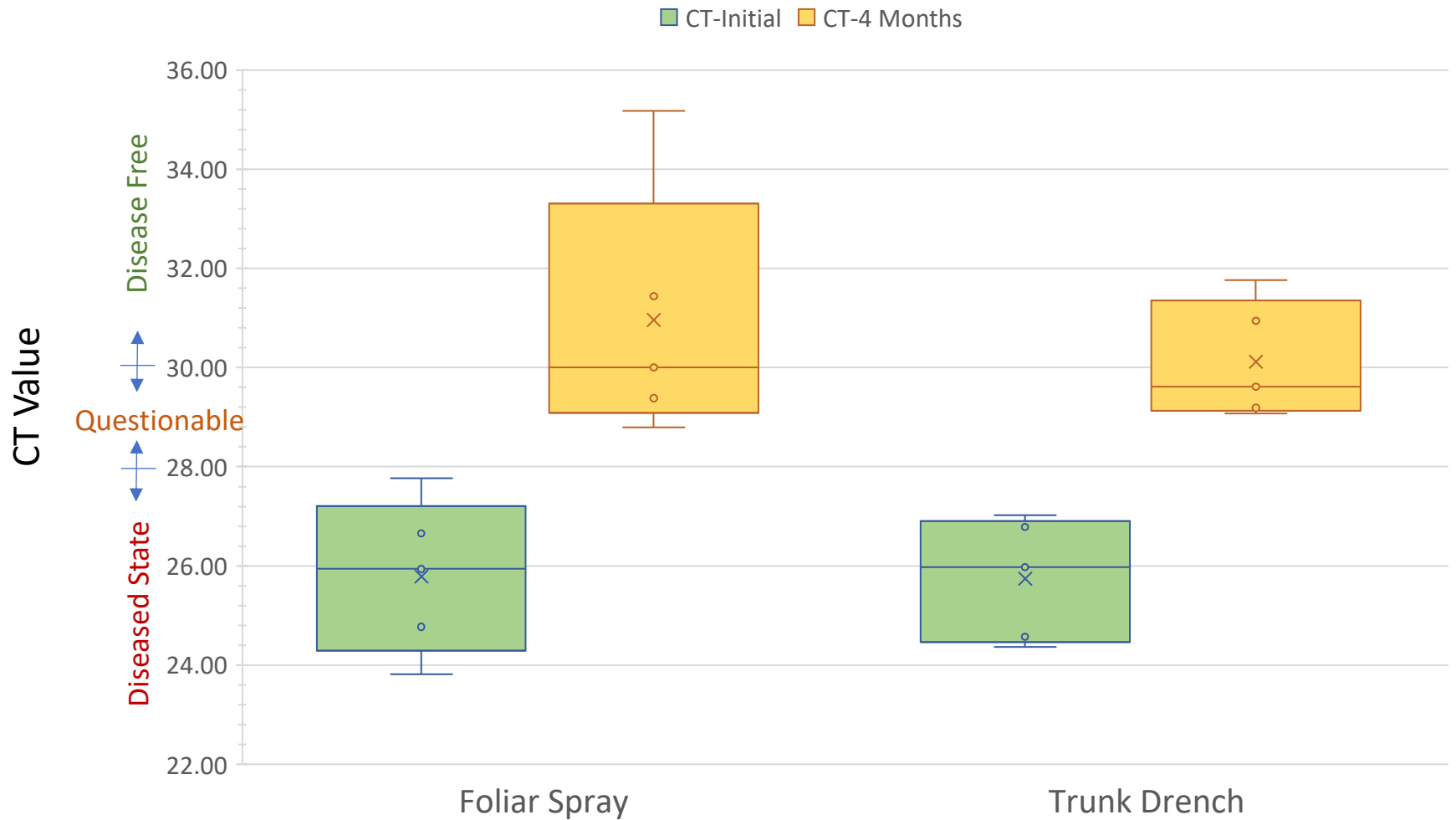
Cranberry Extracts Against Phytopathogens



Soumya Roy
Ocean Spray Cranberries, Inc.
Sept. 23, 2019

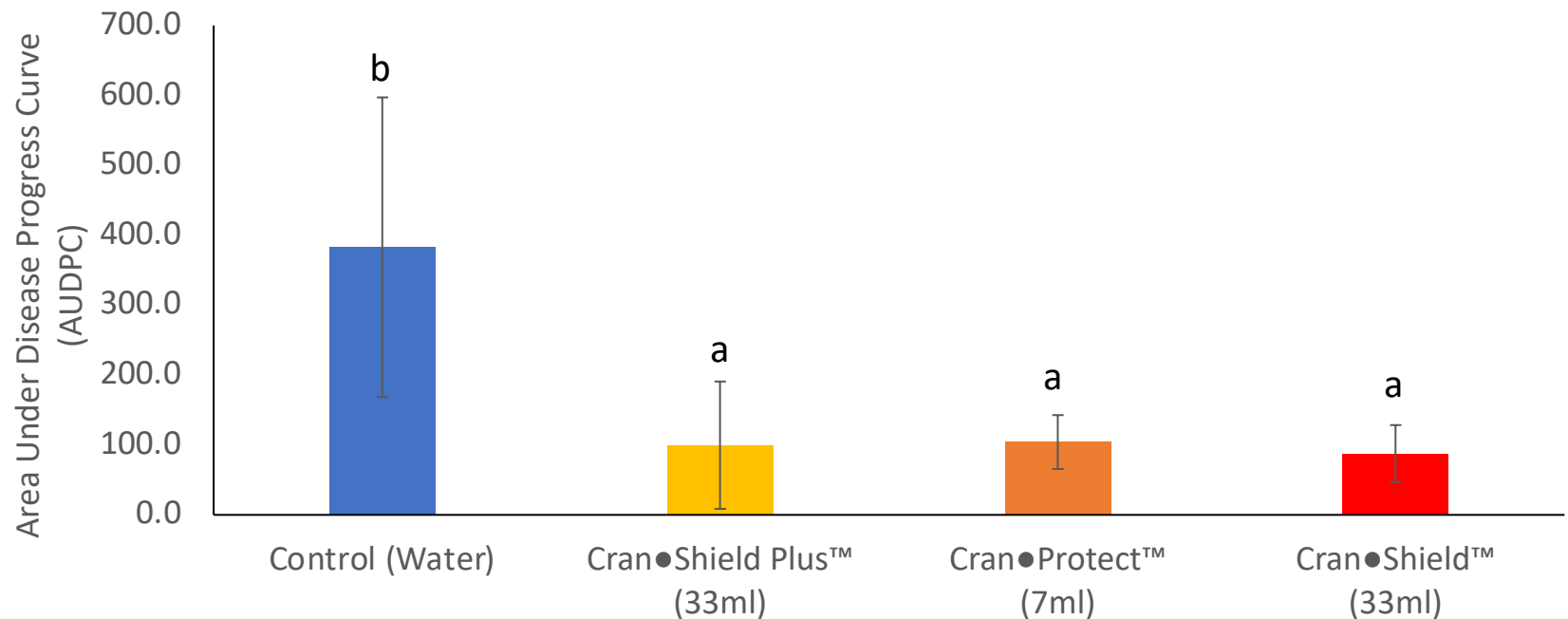
Citrus Greening Reversal in Matured Grapefruit Trees

- Ten Acre Field Study with Diseased 4-5 Year Old Grapefruit Trees
- Higher the CT Value, Lower the Diseased Condition



Effective Against Tomato Spot (*Xanthomonas perforans*)

- Copper & Streptomycin resistant strain
- Average of readings after 2 and 3 weeks after exposure to pathogens



- Cran●Shield™ & Cran●Shield Plus™ are already scaled-up
- Cran●Protect™ is currently produced only in lab quantities

Study Conducted at Mills River, NC State University (Inga Meadows)

Other Highlights

- EPA Approval Process
 - Pre-submission stage
- HLB-MAC Grant for:
 - Scaling up of Cran●Protect™ to pilot scale
 - Explore synergies with cranberry extract
- Patent pending:
 - US20190059392A1
 - Filed- August 15, 2018
- One Acre Study
 - Florida Research Center for Agricultural Sustainability
 - Young healthy plants
 - Protection of healthy plants from HLB



Cranberries

FOR HEALTHIER PLANTS



**From our Cranberry
Grower Families...**



**to Florida Citrus
Grower Families**