



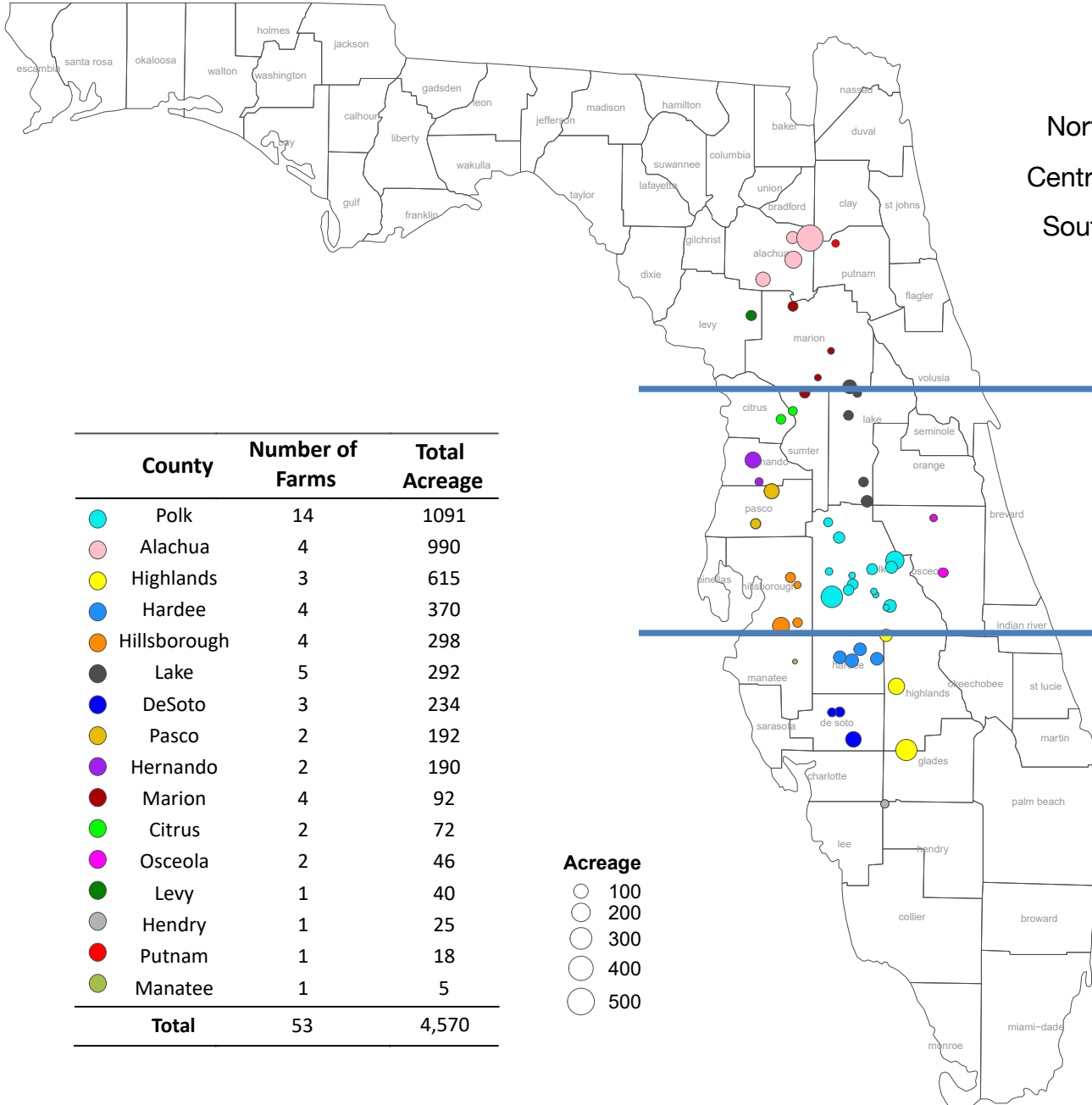
# 2020 End of Season Data Summary FBGA Fall Meeting

Doug Phillips

UF/IFAS Blueberry Extension Coordinator

October 29, 2020

# Florida Blueberry Farms Surveyed 2020 Season

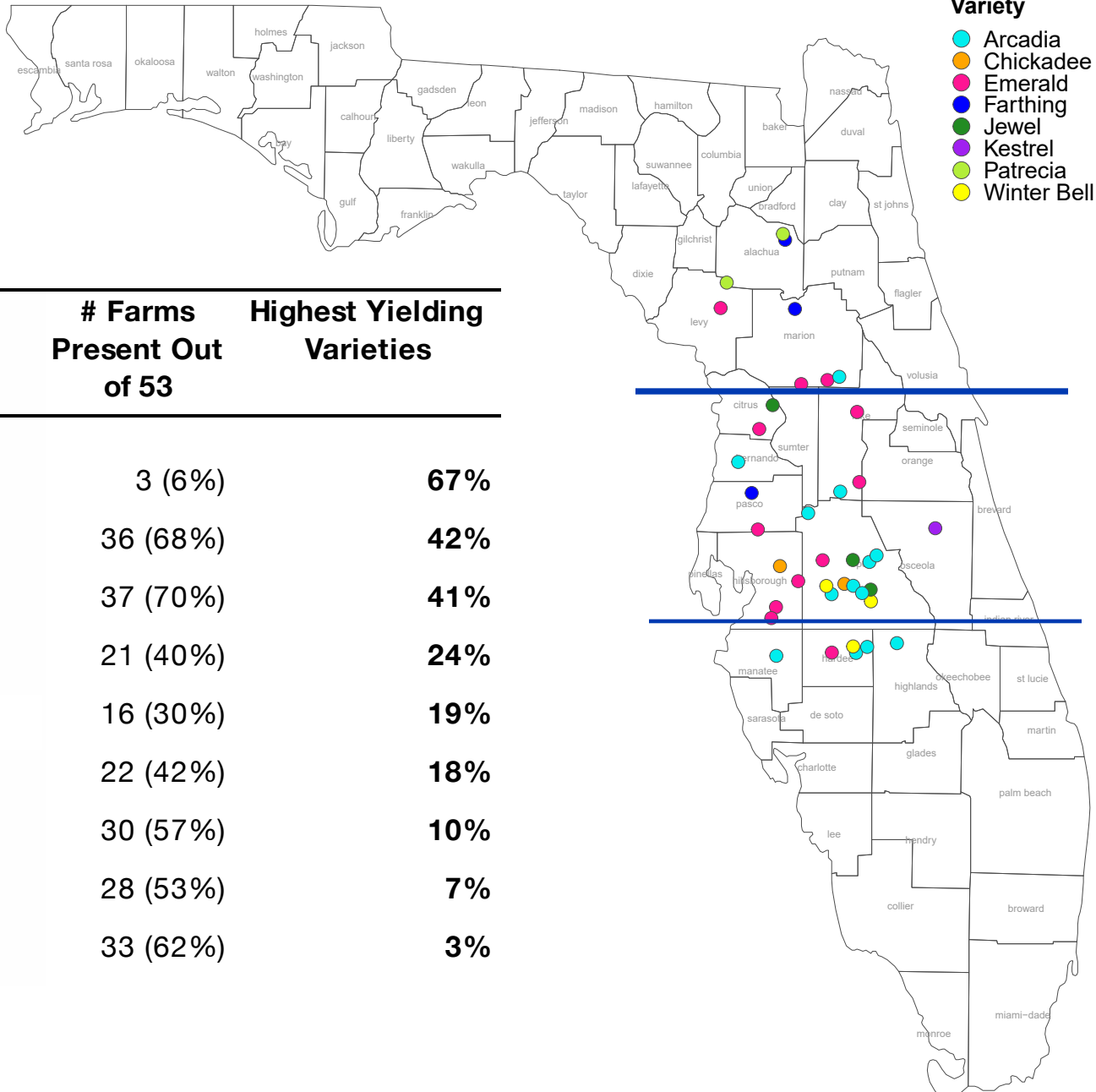


	# Farms	Acreage	% of Total in FL
North	10	1,140	22%
Central	31	2,181	42%
South	12	1,249	24%
	53	4,570	88%

# COVID-19 Impacts

- All growers surveyed reported negative price impacts.
- Half of the growers reported negative impacts on the volume of fruit sold.
- Very few growers reported any difficulties with availability of harvest supplies, harvest labor, or transportation to the packing house.

# Highest Yielding Varieties Reported by Growers





# Highest Yielding Reported by Region

## North-Central

Variety	# Farms Present out of 10	Highest Yielding
Emerald	5 (50%)	<b>80%</b>
Patrecia	3 (30%)	<b>67%</b>
Farthing	9 (90%)	<b>44%</b>

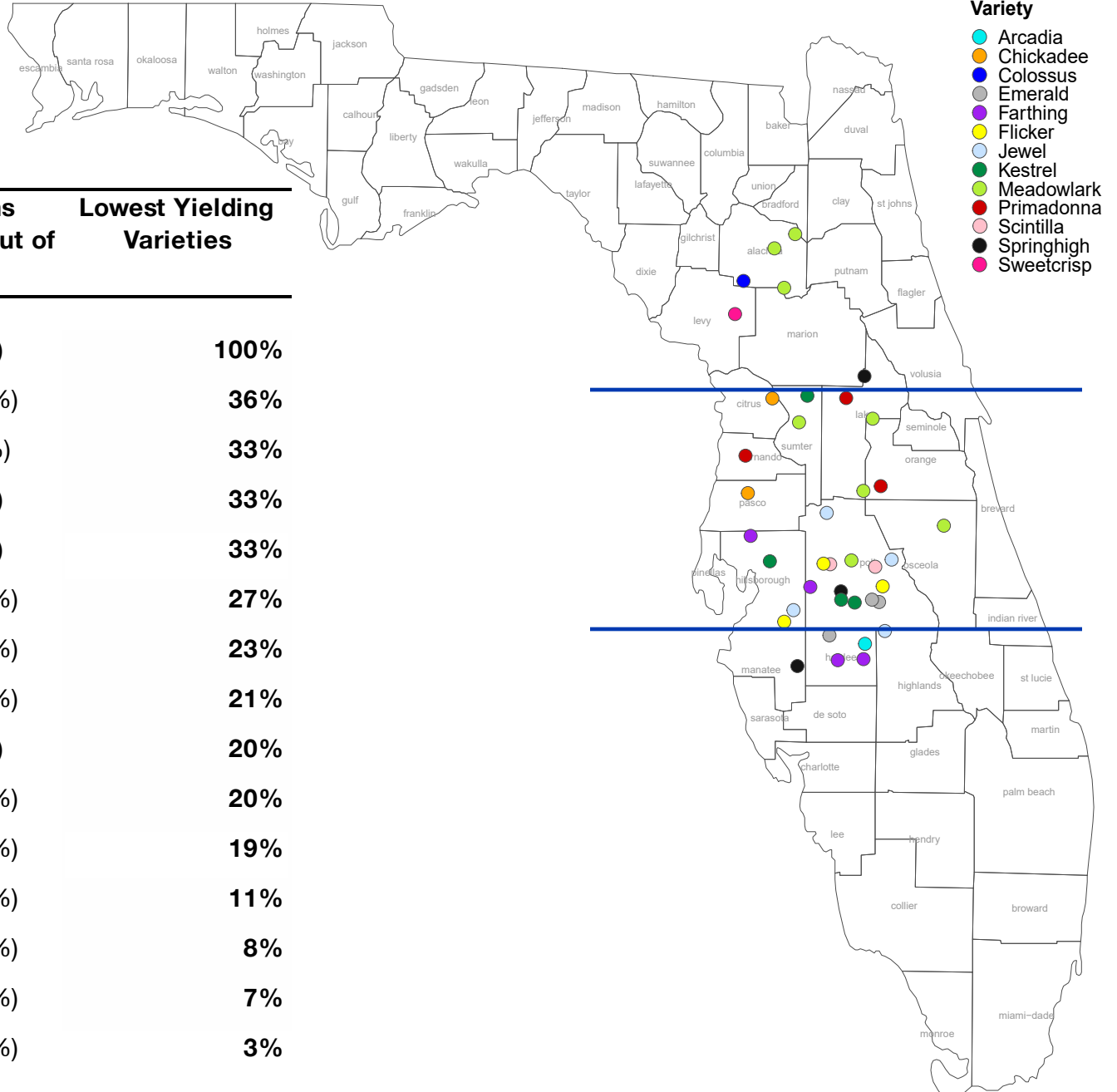
## Central

Variety	# Farms Present out of 31	Highest Yielding
Arcadia	26 (84%)	<b>38%</b>
Emerald	27 (87%)	<b>33%</b>
Winter Bell	12 (39%)	<b>17%</b>
Jewel	23 (74%)	<b>13%</b>
Chickadee	20 (65%)	<b>10%</b>
Farthing	11 (35%)	<b>9%</b>
Avanti	13 (42%)	<b>8%</b>
Kestrel	22 (71%)	<b>5%</b>

## South-Central

Variety	# Farms Present out of 12	Highest Yielding
Arcadia	10 (83%)	<b>50%</b>
Avanti	6 (50%)	<b>50%</b>
Winter Bell	3 (25%)	<b>33%</b>
Emerald	5 (42%)	<b>20%</b>

# Lowest Yielding Varieties Reported by Growers



Variety	# Farms Present Out of 53	Lowest Yielding Varieties
Flicker	3 (6%)	100%
Meadowlark	25 (47%)	36%
Scintilla	6 (11%)	33%
Star	3 (6%)	33%
Colossus	3 (6%)	33%
Kestrel	33 (62%)	27%
Primadonna	13 (25%)	23%
Springhigh	14 (26%)	21%
Sweetcrisp	5 (9%)	20%
Jewel	30 (57%)	20%
Farthing	21 (40%)	19%
Chickadee	28 (53%)	11%
Emerald	36 (68%)	8%
Endura	14 (26%)	7%
Arcadia	37 (70%)	3%

# Lowest Yielding by Region

## North-Central

Variety	# Farms Present out of 10	Lowest Yielding
Meadowlark	6 (60%)	<b>67%</b>
Sweetcrisp	2 (20%)	<b>50%</b>
Kestrel	4 (40%)	<b>50%</b>
Colossus	2 (20%)	<b>50%</b>
Star	2 (20%)	<b>50%</b>
Jewel	4 (40%)	<b>25%</b>

## Central

Variety	# Farms Present out of 31	Lowest Yielding
Flicker	3 (10%)	<b>100%</b>
Scintilla	4 (13%)	<b>50%</b>
Primadonna	8 (26%)	<b>38%</b>
Meadowlark	17 (55%)	<b>29%</b>
Springhigh	8 (26%)	<b>25%</b>
Kestrel	22 (71%)	<b>23%</b>
Farthing	11 (35%)	<b>18%</b>
Jewel	23 (74%)	<b>17%</b>
Chickadee	20 (65%)	<b>15%</b>
Emerald	27 (87%)	<b>7%</b>

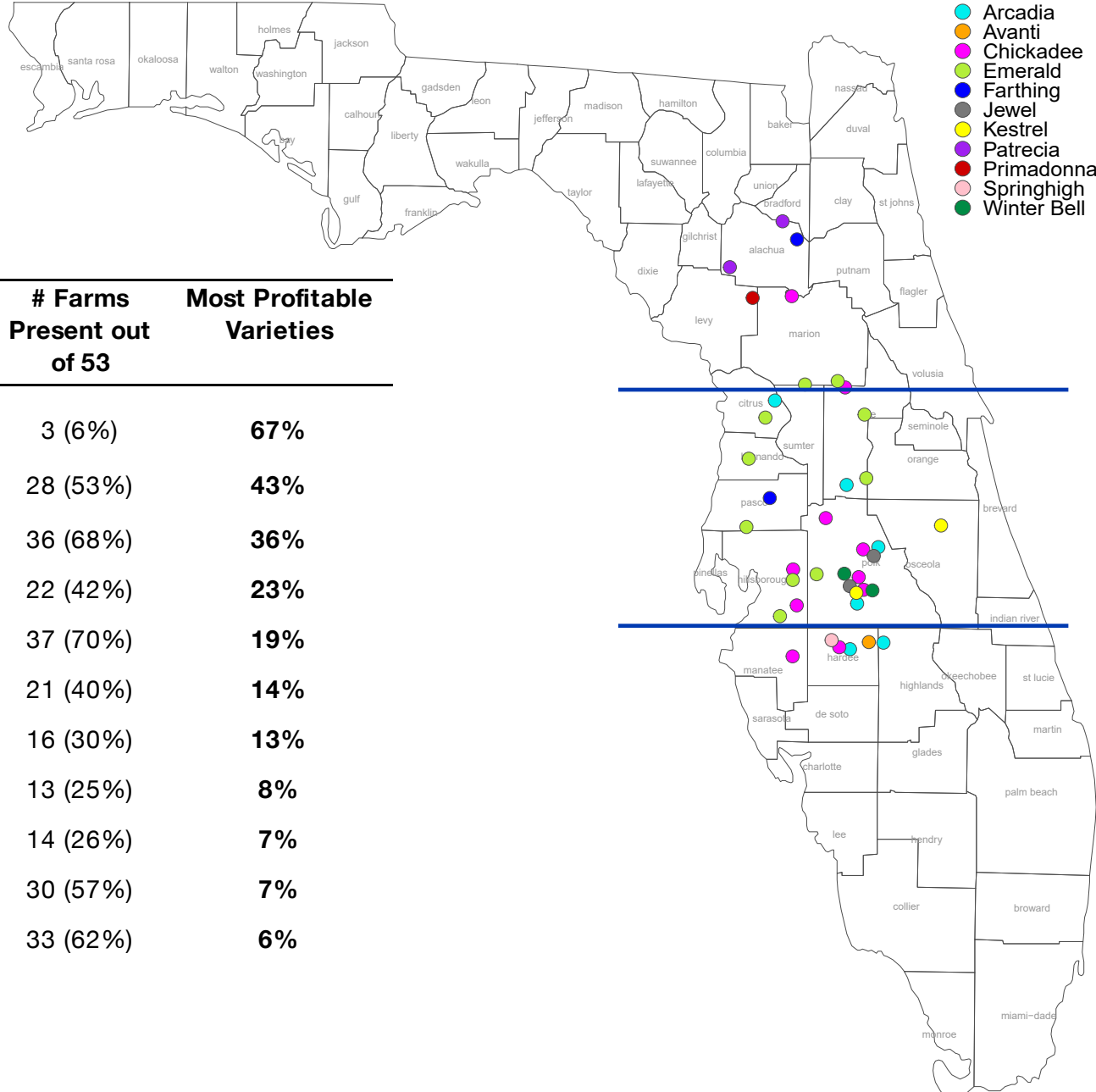
## South-Central

Variety	# Farms Present out of 12	Lowest Yielding
Farthing	2 (17%)	<b>100%</b>
Springhigh	2 (17%)	<b>50%</b>
Endura	4 (33%)	<b>25%</b>
Jewel	4 (33%)	<b>25%</b>
Kestrel	9 (75%)	<b>22%</b>
Emerald	5 (42%)	<b>20%</b>
Arcadia	10 (83%)	<b>10%</b>

# Most Profitable Varieties Reported by Growers

## Variety

- Arcadia
- Avanti
- Chickadee
- Emerald
- Farthing
- Jewel
- Kestrel
- Patrecia
- Primadonna
- Springhigh
- Winter Bell



Variety	# Farms Present out of 53	Most Profitable Varieties
Patrecia	3 (6%)	<b>67%</b>
Chickadee	28 (53%)	<b>43%</b>
Emerald	36 (68%)	<b>36%</b>
Avanti	22 (42%)	<b>23%</b>
Arcadia	37 (70%)	<b>19%</b>
Farthing	21 (40%)	<b>14%</b>
Winter Bell	16 (30%)	<b>13%</b>
Primadonna	13 (25%)	<b>8%</b>
Springhigh	14 (26%)	<b>7%</b>
Jewel	30 (57%)	<b>7%</b>
Kestrel	33 (62%)	<b>6%</b>

# Most Profitable by Region

## North-Central

Variety	# Farms Present out of 10	Most Profitable
Patrecia	3 (30%)	<b>67%</b>
Chickadee	3 (30%)	<b>67%</b>
Emerald	5 (50%)	<b>60%</b>
Primadonna	3 (30%)	<b>33%</b>
Farthing	9 (90%)	<b>22%</b>

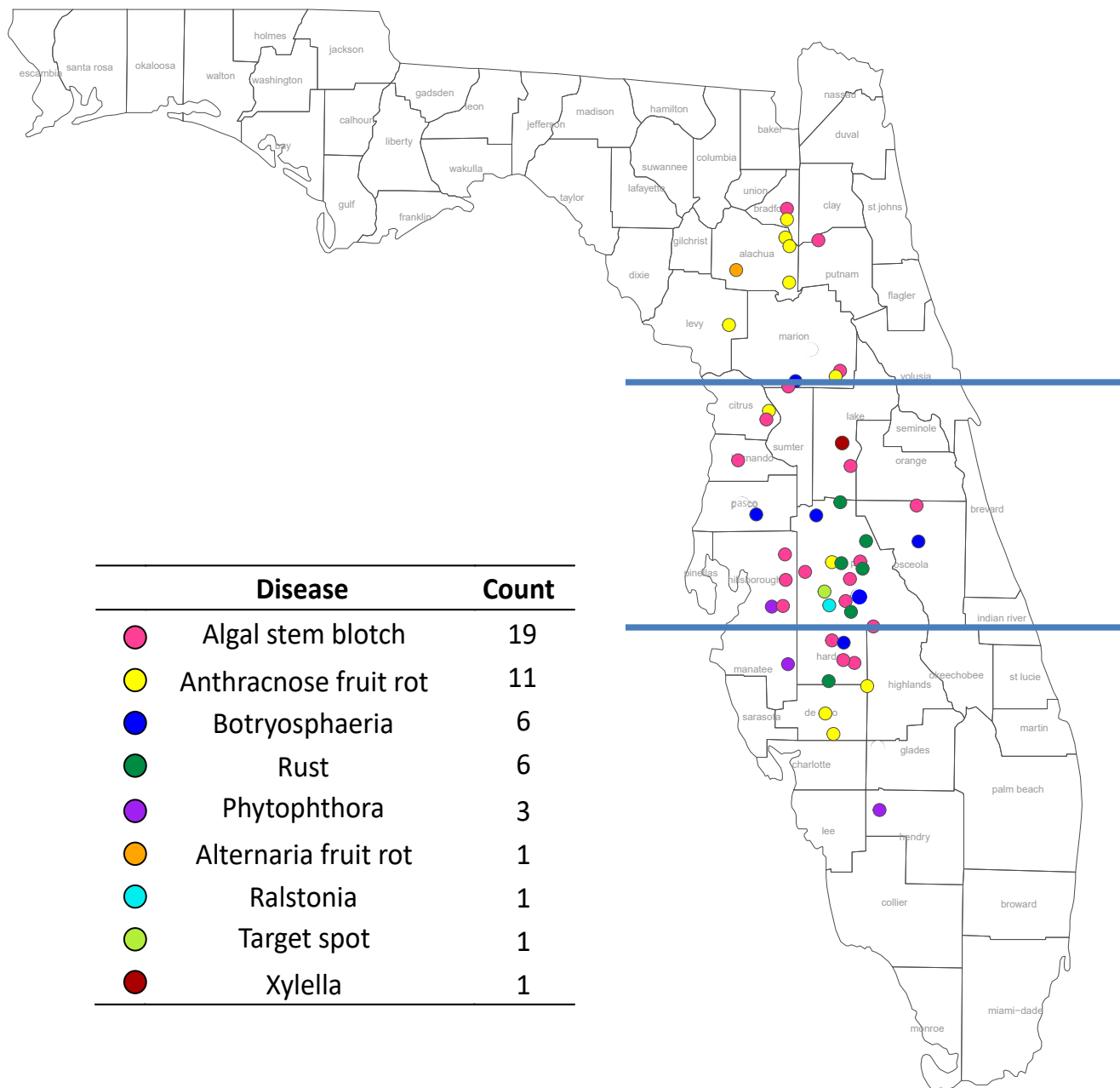
## Central

Variety	# Farms Present out of 31	Most Profitable
Emerald	27 (87%)	<b>37%</b>
Chickadee	20 (65%)	<b>35%</b>
Arcadia	26 (84%)	<b>19%</b>
Winter Bell	12 (39%)	<b>17%</b>
Farthing	11 (35%)	<b>9%</b>
Kestrel	22 (71%)	<b>9%</b>
Jewel	23 (74%)	<b>9%</b>
Avanti	13 (42%)	<b>9%</b>

## South-Central

Variety	# Farms Present out of 12	Most Profitable
Avanti	6 (50%)	<b>67%</b>
Chickadee	6 (50%)	<b>50%</b>
Springhigh	2 (17%)	<b>50%</b>
Arcadia	10 (83%)	<b>20%</b>

# Diseases Most Frequently Reported by Growers



# Diseases by Region

## North-Central

Disease	Freq	% Farms Surveyed
Anthrax Fruit Rot	5	50%
Algal Stem Blotch	2	20%
Alternaria Fruit Rot	1	10%
Bot .Stem Blight	1	10%

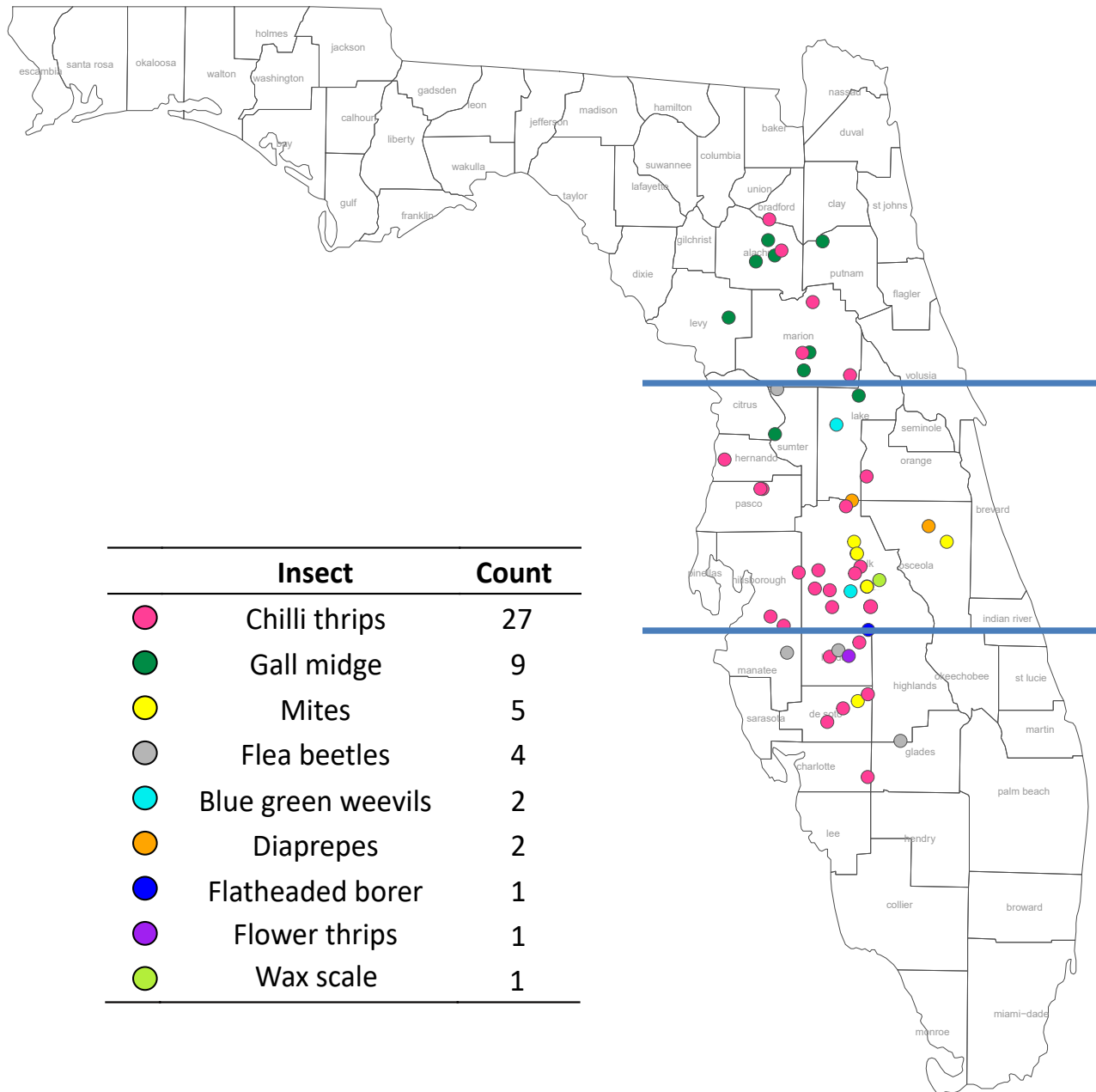
## Central

Disease	Freq	% Farms Surveyed
Algal Stem Blotch	13	42%
Rust	5	16%
Bot. Stem Blight	4	13%
Anthrax Fruit Rot	3	10%
Xylella	1	3%
Ralstonia	1	3%
Phytophthora	1	3%
Target Spot	1	3%

## South-Central

Disease	Freq	% Farms Surveyed
Algal Stem Blotch	3	33%
Anthrax Fruit Rot	3	25%
Phytophthora	2	17%
Bot. Stem Blight	1	8%
Rust	1	8%

# Insect Pests Most Frequently Reported by Growers





# Insect Pests by Region

## North-Central

Pests	Freq	% Farms Surveyed
Gall Midge	6	60%
Chilli Thrips	3	30%

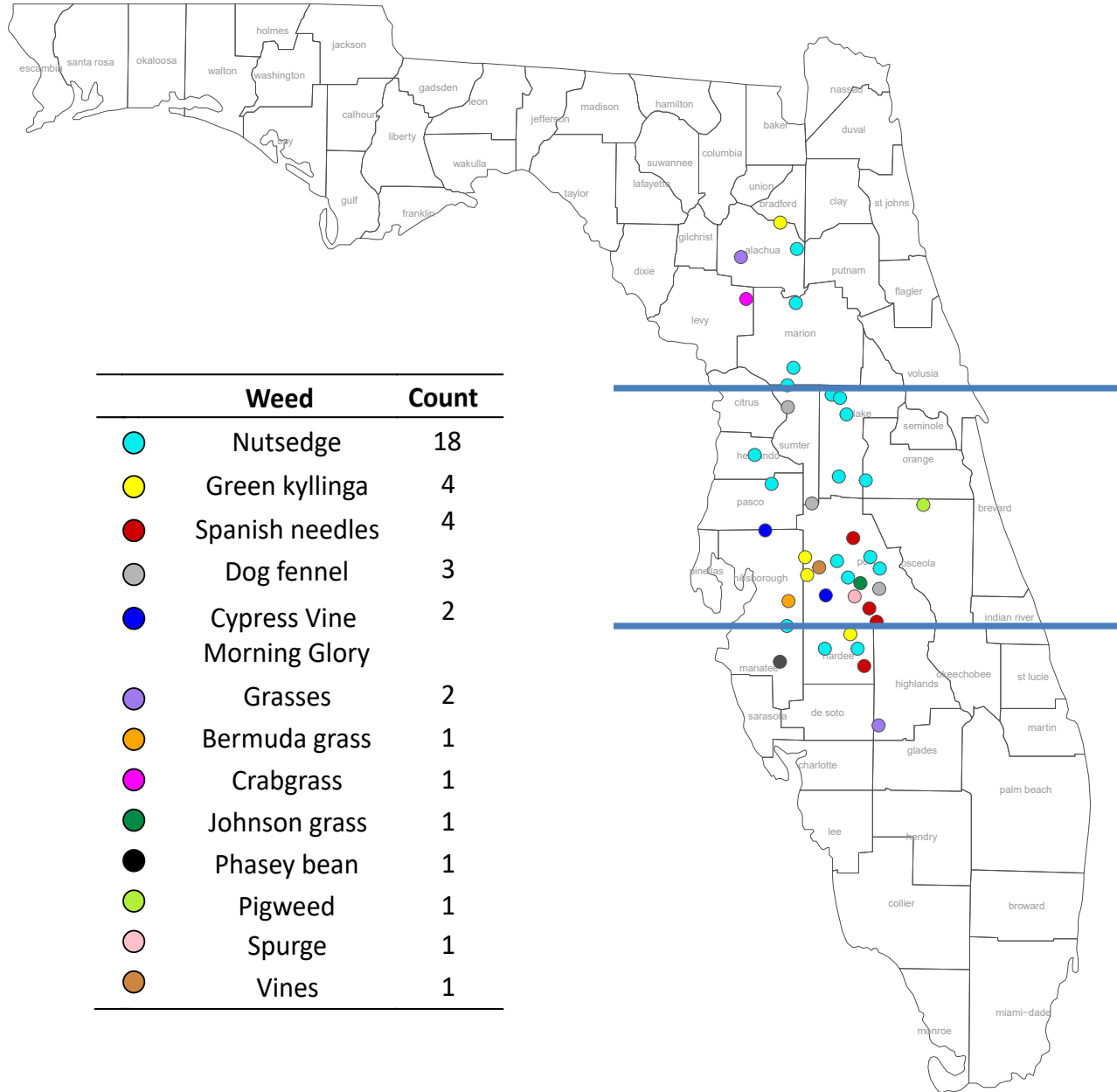
## Central

Pests	Freq	% Farms Surveyed
Chilli Thrips	18	58%
Mites	4	13%
Diaprepes	2	6%
Blue-Green Weevil	2	6%
Gall Midge	2	6%
Flea Beetle	1	3%
Wax Scale	1	3%

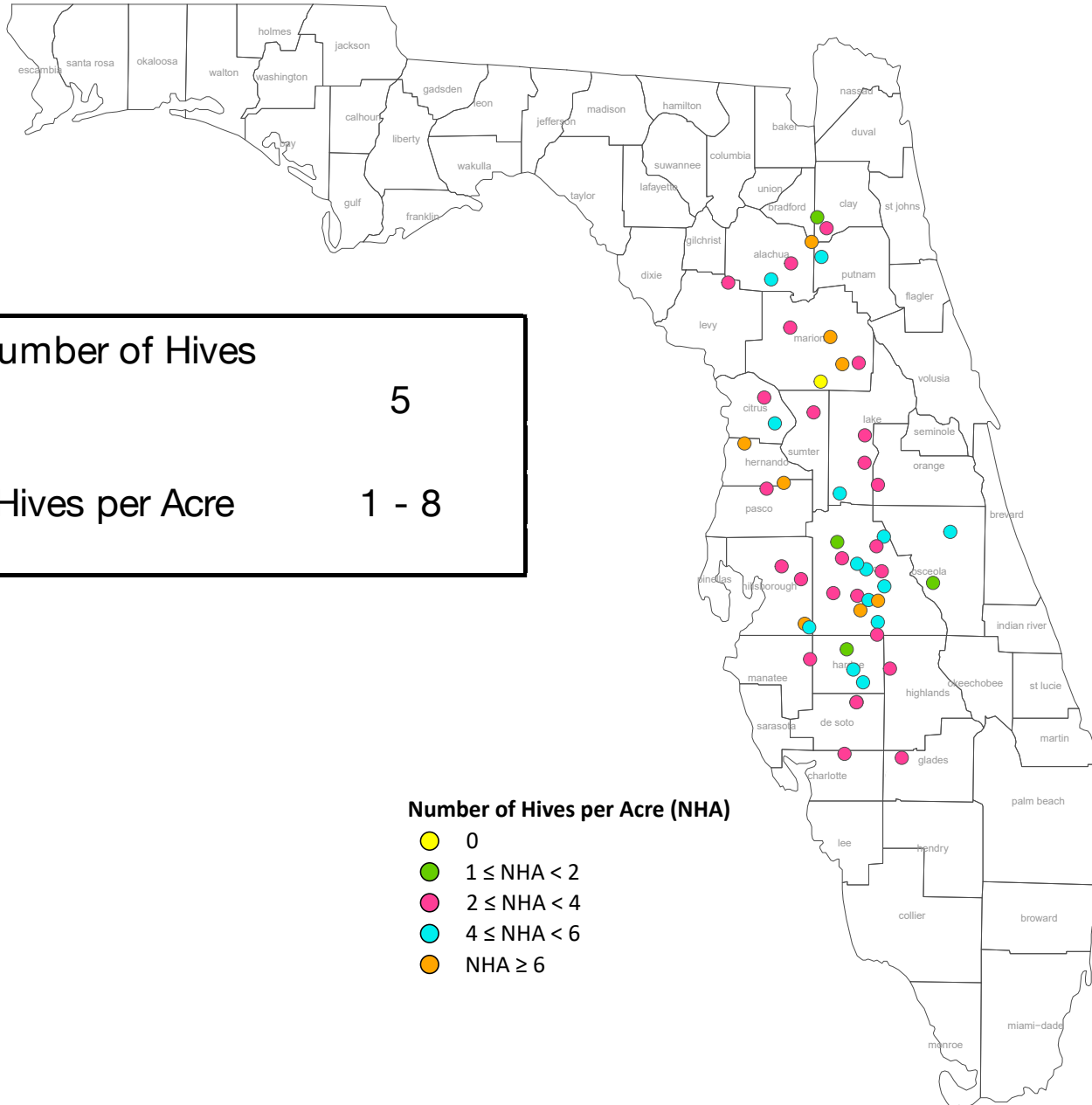
## South-Central

Pests	Freq	% Farms Surveyed
Chilli Thrips	6	50%
Flea Beetles	3	25%
Flatheaded Borer	1	8%
Flower Thrips	1	8%
Mites	1	8%

# Problematic Weeds Most Frequently Reported by Growers



# Honey Bee Hives per Acre Reported by Growers



# Bumble Bee Quads per Acre Reported by Growers

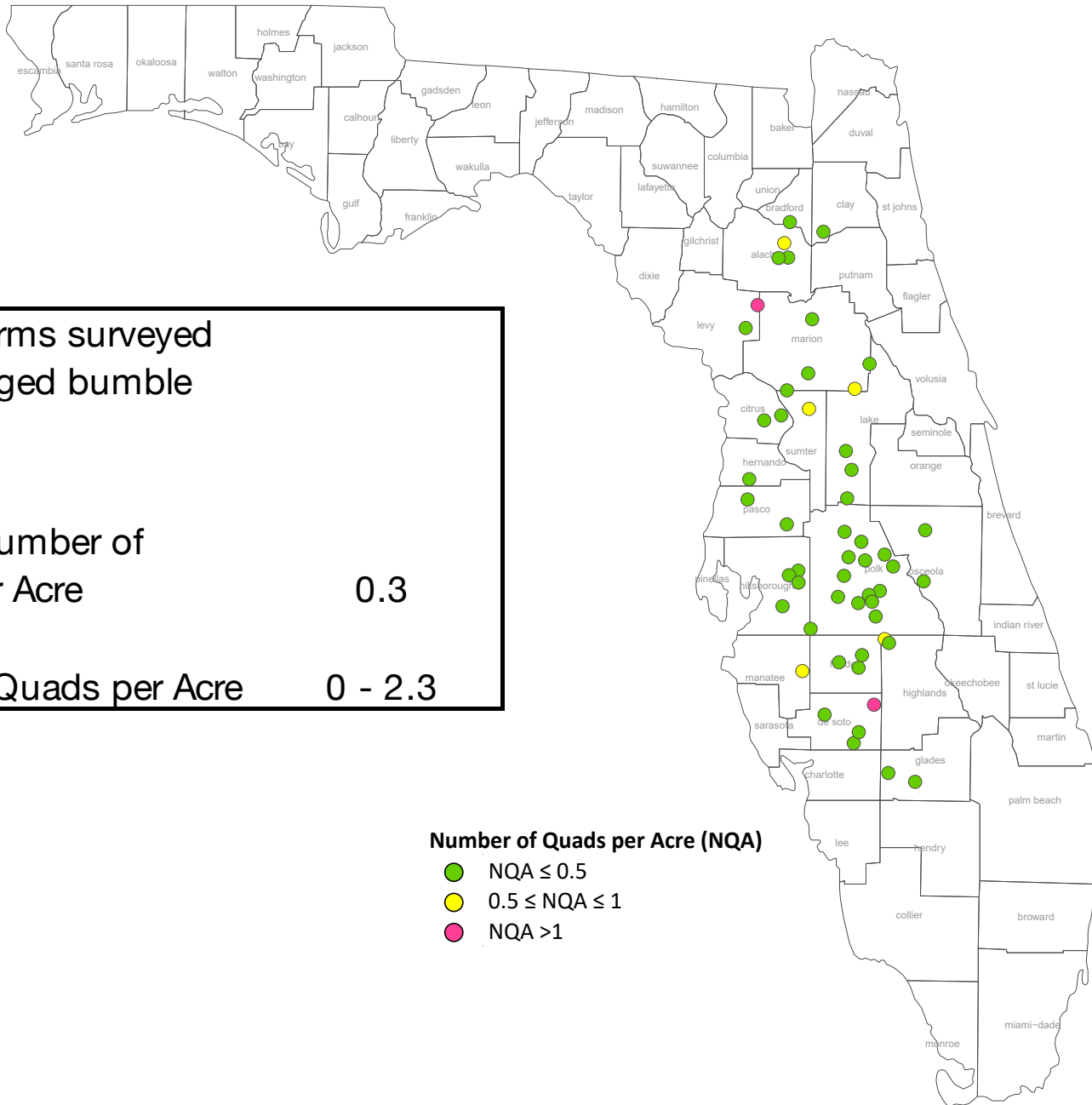
53% of farms surveyed  
had managed bumble  
bees

Average Number of  
Quads per Acre 0.3

Range of Quads per Acre 0 - 2.3

## Number of Quads per Acre (NQA)

- $NQA \leq 0.5$
- $0.5 \leq NQA \leq 1$
- $NQA > 1$



# 2019 – 2020 Comparison

	2019 (47 Farms)	2020 (53 Farms)
<b>Highest Yield</b>		
• North	Farthing	Emerald
• Central	Emerald	Arcadia, Emerald
• South	Arcadia	Arcadia
<b>Lowest Yield</b>		
• North	Meadowlark	Meadowlark
• Central	Meadowlark	Meadowlark
• South	Meadowlark, Endura	Jewel, Endura
<b>Most Profitable</b>		
• North	Chickadee, Farthing	Chickadee, Emerald
• Central	Emerald, Jewel	Emerald, Chickadee
• South	Avanti	Avanti

# 2019 – 2020 Comparison

	<b>2019</b> (47 Farms)	<b>2020</b> (53 Farms)
Diseases	Algal Stem Blotch	Algal Stem Blotch
Insect Pests	Chilli Thrips	Chilli Thrips

# Notable Items

- Total farms surveyed in south-central region increased from 4 in 2019 to 12 in 2020
- Surveyed acreage increased from 78% of USDA reported acreage in 2019 to 88% in 2020
- Honey bee hive density increased from 3.5 to 5 hives per acre
- Higher reported incidence of anthracnose fruit rot in 2020

# UF Blueberry Breeding Website

2020 season data maps will be available on the UF blueberry breeding website –

[www.blueberrybreeding.com/blog](http://www.blueberrybreeding.com/blog)

You can also access –

- information and data on UF blueberry cultivars
- all UF EDIS blueberry extension publications



# Southern Highbush Blueberry Grower Guide

- Phone app grower guide
- Initial function is a scouting guide
- Other functions to be added
- Projected to be released on Apple and Google Play stores on December 1



# Southern Highbush Blueberry Grower Guide

- Phone app scouting tool for field diagnosis of:
  - Disease
  - Insect pests
  - Nutrient deficiencies
  - Abiotic damage
- Specific to southern highbush
- Diagnostic key, images, extension publications

Note - this is not a substitute for sending samples for diagnosis to the UF Plant Diagnostic Center for confirmation.

# Acknowledgements

- Participating blueberry growers
- Mia Acker, Ivone Oliveira – map development
- UF Blueberry Breeding Program for funding all of this research





# Questions?

Doug Phillips

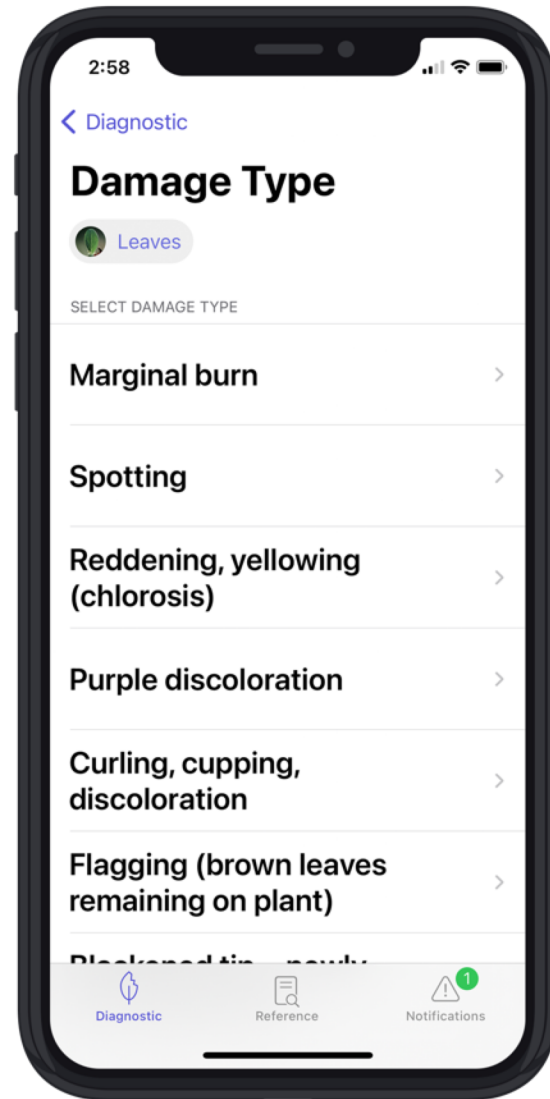
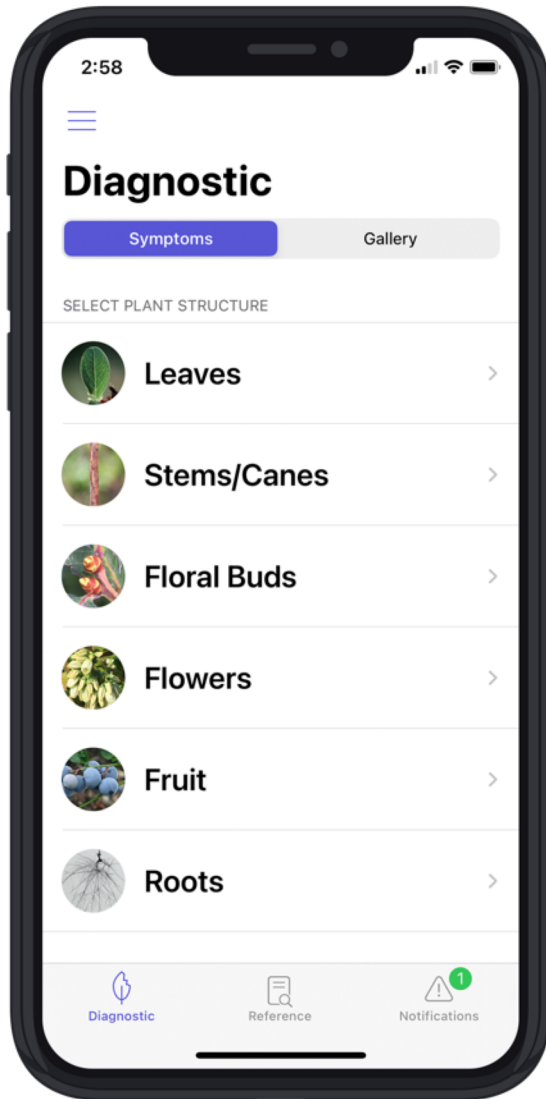
[dal64372@ufl.edu](mailto:dal64372@ufl.edu)

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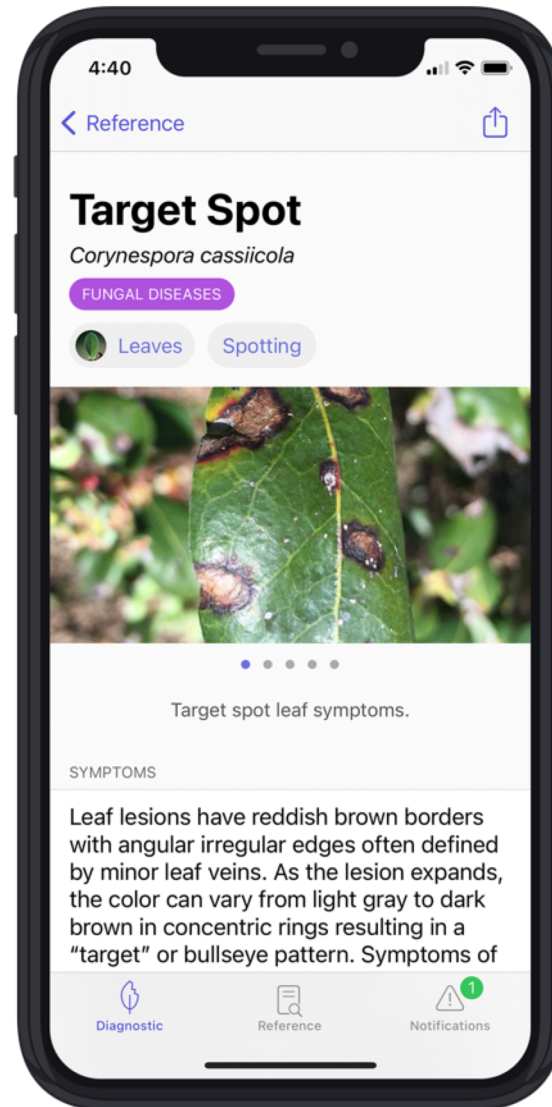
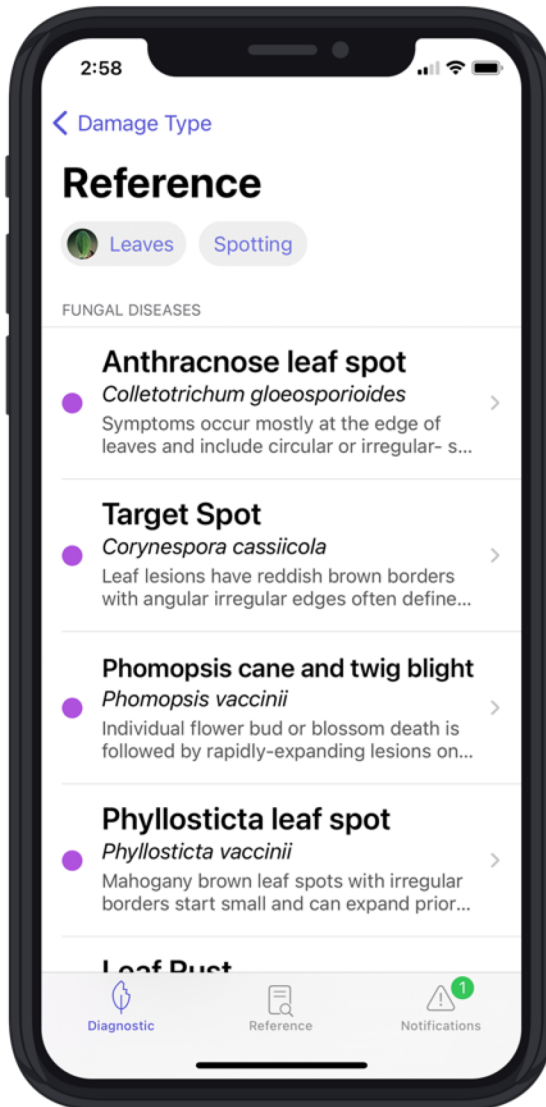
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# Scouting Guide Diagnostic Key



# Scouting Guide Diagnostic Key



# Scouting Guide Diagnostic Key

