

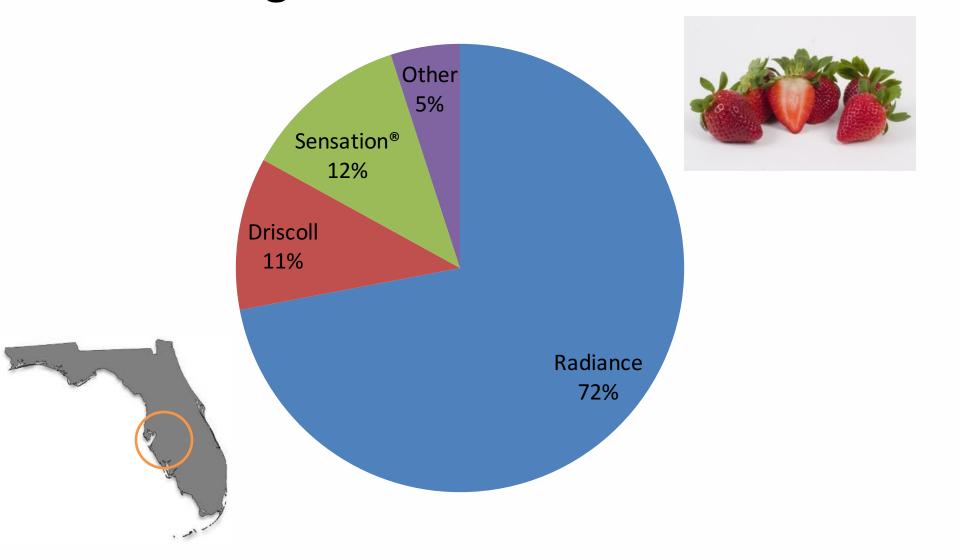
Breeding Updates: A New Selection in the Pipeline

Agritech Conference, Plant City, FL April 19, 2016

Vance M. Whitaker

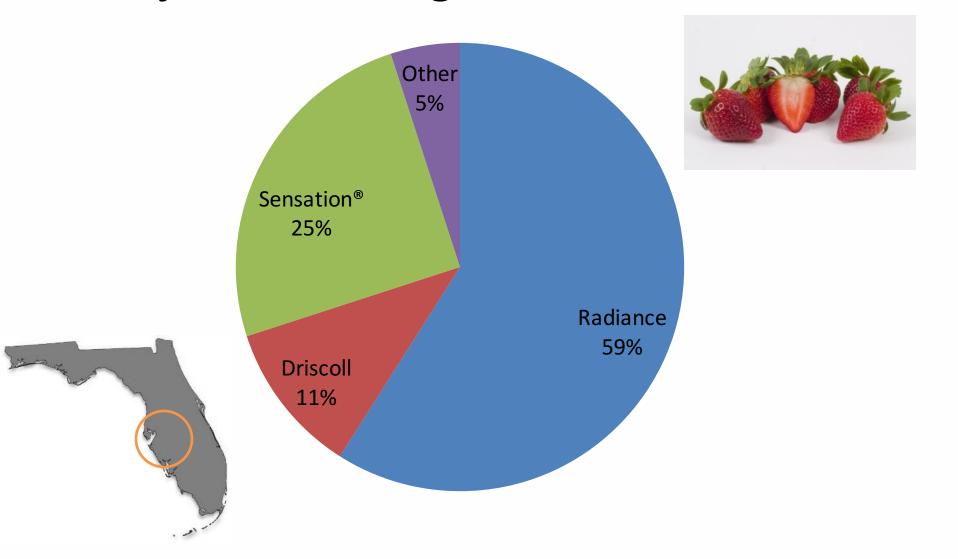


Acreage Estimate for 2015-16





Projected Acreage for 2016-17 ???







Sweet Sensation® 'Florida127'

Flavor and Aroma
Excellent Shelf Life
Fruit Size





My Management Recommendations for Sweet Sensation® 'Florida127'

- #1 Oct 1st 15th planting
- #2 16" in-row spacing
- #3 Don't fertilize like 'Radiance' (Plant Size!)
- #4 Phytophthora Powdery Mildew Botrytis
- #5 Let it color



FL 12.121-5

AU 2010-119 x 'Florida Radiance'





Adapted to Early Planting Dates



FL 12.121-5 Performance Data

- Agronomic Traits
- Fruit Quality and Flavor
- Disease Resistance
- Management Recommendations

UF Breeding Process

Crossing (100-150)



Stage 1 (~10,000)

Stage 2 (~400)





Grower Trials (1-2)





FL 12.121-5

AGRONOMIC TRAITS



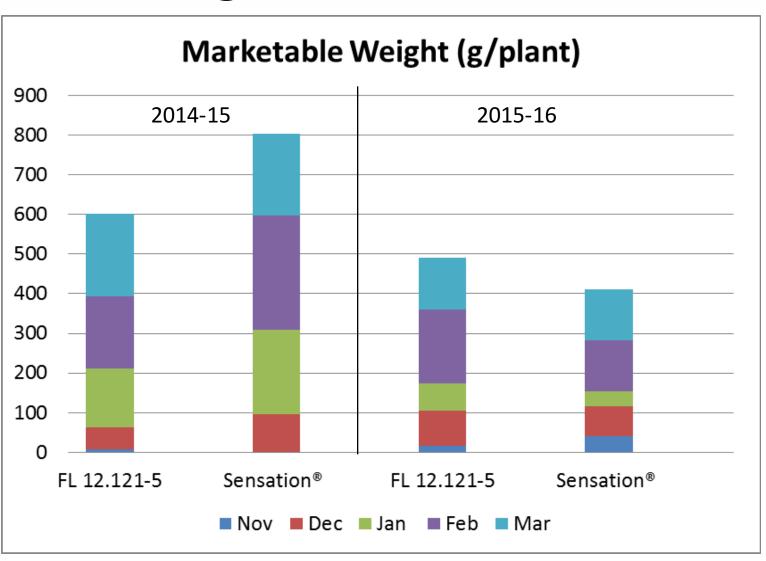
Description

- Compact Plant
- Ideal for Early Planting
- Day Neutral Tendencies
- Med Fruit Size
- Excellent Shape
- Vivid Red Color
- Tough Skin, Water Resistant



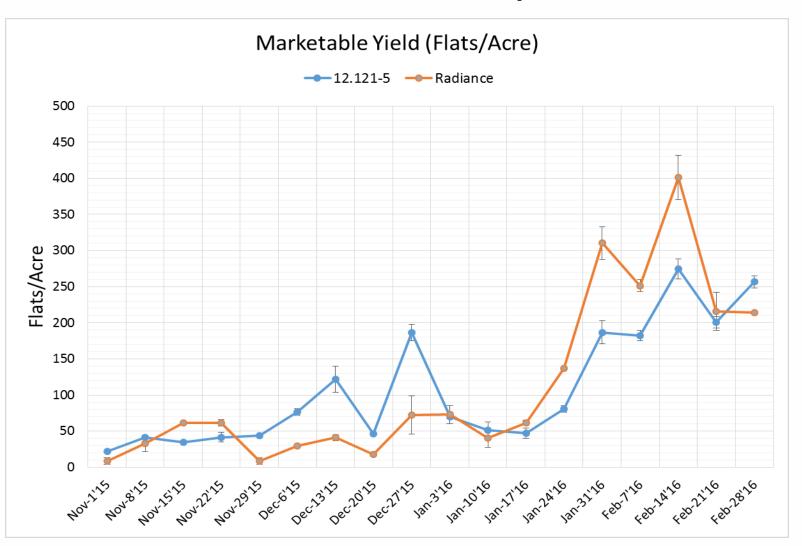


Stage 3 (Mid-Oct Planting)





Astin Ranch: Planted Sept 25th, 2015





Other Traits

Variety	2014-15		2015-16	
	FL 12.121-5	Sensation®	FL 12.121-5	Sensation®
Fruit Size (g/fruit)	21 b	31 a	19 b	22 a
Water Damage (%)	10 a	12 a	12 a	25 b
Misshapen (%)	5 a	7 a	9 b	10 a



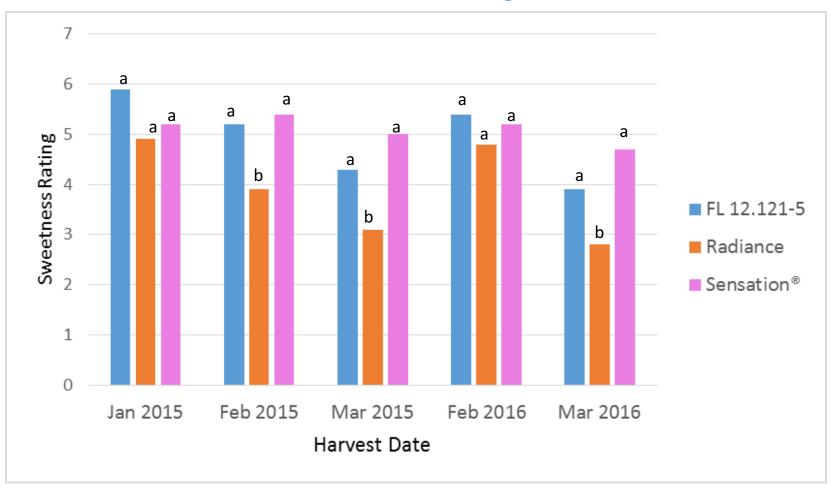


FL 12.121-5

FRUIT QUALITY AND FLAVOR

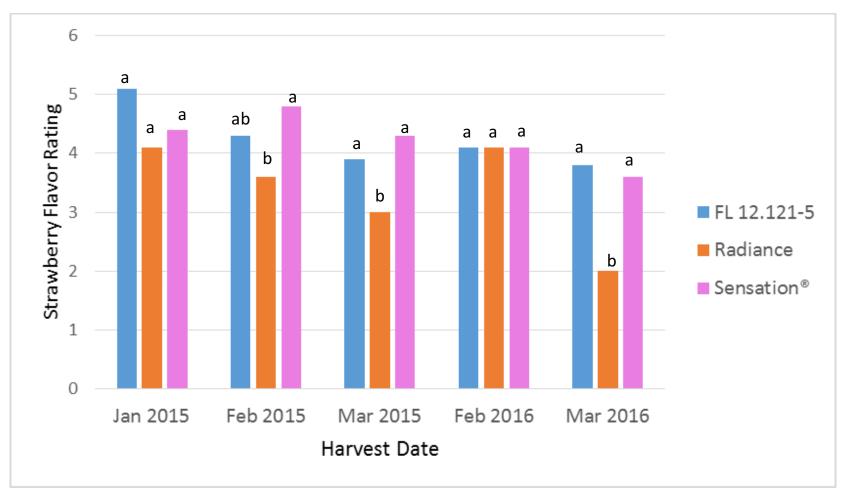
Trained Taste Panels

Sweetness Ratings



Trained Taste Panels

Strawberry Flavor Ratings





Postharvest Ratings

Grower Trials

- See Cecilia Nunes Presentation
- Intermediate Shelf Life to Sensation[®] and Radiance



FL 12.121-5

DISEASE RESISTANCE



Disease Resistance

N. Peres Trials

Disease	Causal Agent	Radiance	FL 12.121-5	
Anthracnose fruit rot	Colletotrichum acutatum	R	MS	,
Angular leaf spot	Xanthomonas fragariae	MS	MS	
Botrytis fruit rot	Botrytis cinerea	MS	MS	
Charcoal rot	Macrophomina phaseolina	MR	?	
Colletotrichum crown rot	Colletotrichum gloeosporoides	MS	?	
Phytophthora root rot	Phytophthora cactorum	HS	MR	
Powdery mildew	Podosphaera aphanis	MR	MS	



Preliminary Recommendations

1) Early Planting Dates (Sept 25 – Oct 1; not after 5th)

- 2) Manage Fertility Similar to Radiance
- 3) Focus on Powdery Mildew control

4) Could be marketed under the Sweet Sensation® brand





What's Next?



FL 12.121-5

- Clean stock in pipeline
- Release proposal August, 2016
- 2016-17: Larger grower trials
- 2017-18: Commercial availability



Newer Selections for grower trial

2016-17: One 2013 selection

2017-18: One or more new selections

Thank You!

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 - Luis Osorio
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 - Angelita Arredondo
 - Kelsey Cearley
 - Sujeet Verma
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 - Wantanee Prescott
 - Claire Martin

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 - Seonghee Lee
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 - Anne Plotto
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