Florida Department of
Agriculture and
Consumer Services
Division of Plant Industry





INDIAN RIVER

Research and Education Center

Indian River Citrus League & UF/IFAS IRREC grapefruit scion and rootstock trials

Dr. Greg Hodges, Ben Rosson (FDACS)
Dr. Rhuanito Ferrarezi, Dr. Flávia Zambon (IRREC)
Dr. Edzard van Santen (UF/IFAS)
Doug Bournique and Pat Schirard (IRCL)

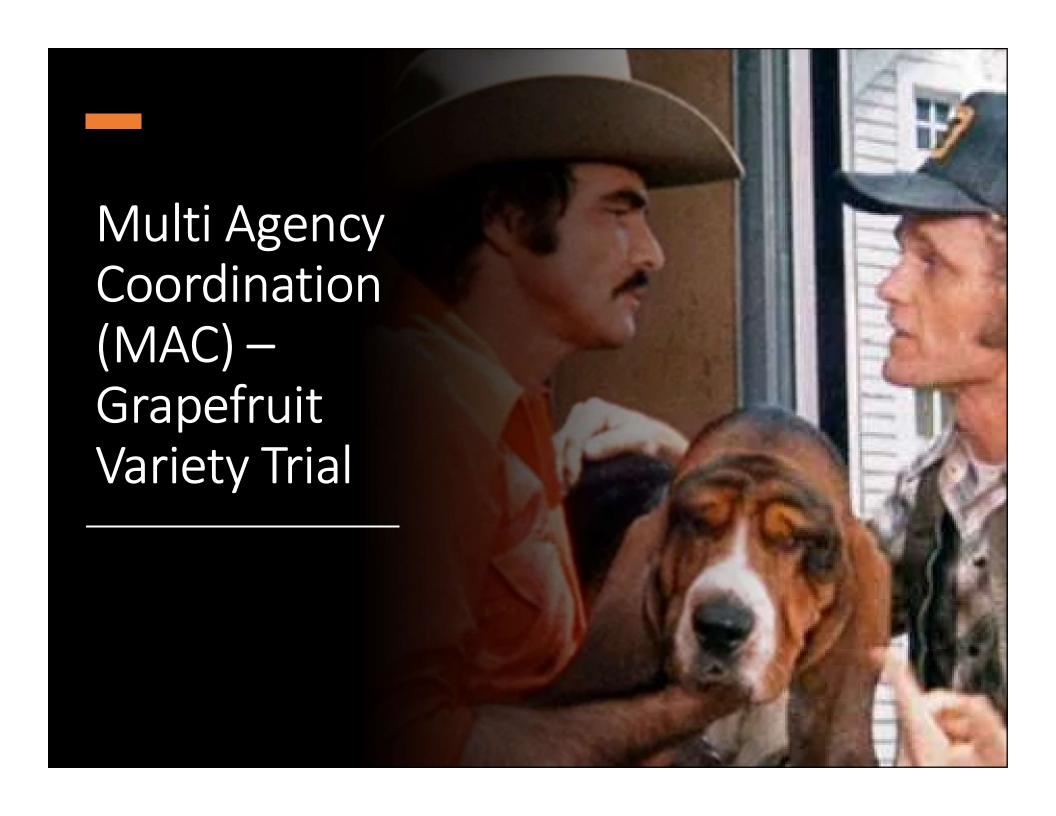
Florida Citrus Show – May 2021



- Project idea began in 2017, conversation between IRCL and FDACS-Division of Plant Industry.
- Goal is to evaluate potential HLB tolerant rootstock/scion combinations in large grower driven field trials.
- A total of 7 Scions and 6 rootstocks have been chosen for evaluation.
- This project reflects a partnership between IRCL, FDACS-DPI and the University of Florida-IRREC

- Project Coordinator for FDACS-DPI is Ben Rosson (Chief-Citrus Budwood Registration).
- Primary Investigative Researcher is Dr. Rhuanito (Johnny)
 Ferrarezi, University of Florida.
- Project Liaison with and for Growers is Doug Bournique, Executive Vice President, IRCL





 This project was intended to be in multiple phases with phase one being funded from Huanglongbing (HLB) Multi Agency Coordination group for \$1,828,971.56 over three years.

 After completing phase one, there will be a need for a second phase that will account for years 4 through 6. This phase will be utilized for collection of data and evaluation of rootstock/scion combinations. Initially we started planning for this project, the estimate for phase 2 was \$1,707,000.

Six rootstock selections

Seven scion selections:

US 802

US 942

UFR 4

UFR 5

X-639

Super Sour #1

Jackson GFT

Flame GFT

Star Ruby GFT

Rio Red

Grapefruit UF N40-16-11-11

Red GFT UF N40-11-7

Red Pummelo UF KW-1-50



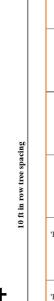
Patrick Fruit Company, LLC - Block: 29

41 blocks in total

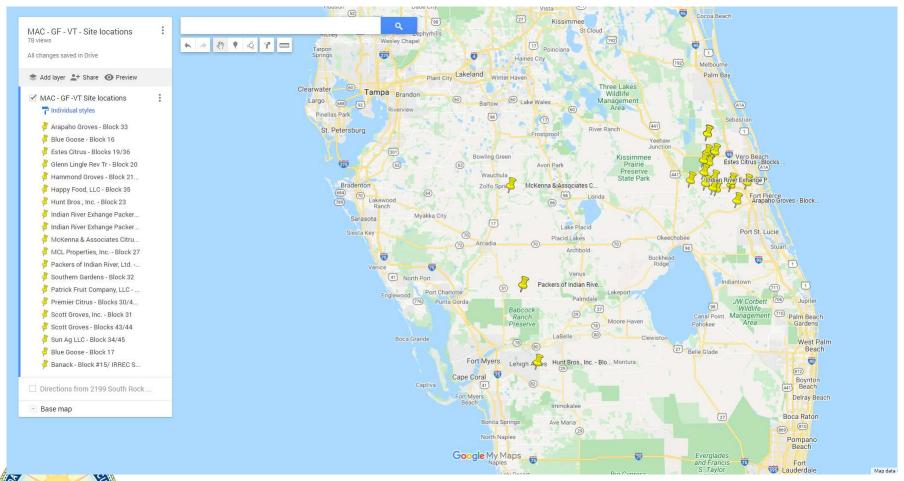
82 acres of new plantings



19 sites throughout the state



	Fatrick Fruit Company, LLC - Block: 29								
	'Star Ruby GFT'	'Star Ruby GFT'	'Star Ruby GFT'	'Star Ruby GFT'	'Star Ruby GFT'	'Star Ruby GFT'			
	X-639	UFR-5	US-802	US-942	Supersour #1	UFR-4			
	2917	2927	2937	2947	2957	2967			
	'Flame GFT'	'Flame GFT'	'Flame GFT'	'Flame GFT'	'Flame GFT'	'Flame GFT'			
	X-639	UFR-5	US-802	US-942	Supersour #1	UFR-4			
	2916	2926	2936	2946	2956	2966			
10 ft in row tree spacing	'Jackson GFT'	'Jackson GFT'	'Jackson GFT'	'Jackson GFT'	'Jackson GFT'	'Jackson GFT'			
	X-639	UFR-5	US-802	US-942	Supersour #1	UFR-4			
	2915	2925	2935	2945	2955	2965			
	'Rio Red'	'Rio Red'	'Rio Red'	'Rio Red'	'Rio Red'	'Rio Red'			
	X-639	UFR-5	US-802	US-942	Supersour #1	UFR-4			
	2914	2924	2934	2944	2954	2964			
	'RG UF N40-16-11-7'	'RG UF N40-16-11-7'	'RG UF N40-16-11-7'	'RG UF N40-16-11-7'	'RG UF N40-16-11-7'	'RG UF N40-16-11-7'			
	X-639	UFR-5	US-802	US-942	Supersour #1	UFR-4			
	2913	2923	2933	2943	2953	2963			
	'R Pum UF KW-1-50'	'R Pum UF KW-1-50'	'R Pum UF KW-1-50'	'R Pum UF KW-1-50'	'R Pum UF KW-1-50'	'R Pum UF KW-1-50'			
	X-639	UFR-5	US-802	US-942	Supersour #1	UFR-4			
	2912	2922	2932	2942	2952	2962			
	'G UF N40-16-11-11'	'G UF N40-16-11-11'	'G UF N40-16-11-11'	'G UF N40-16-11-11'	'G UF N40-16-11-11'	'G UF N40-16-11-11'			
	X-639	UFR-5	US-802	US-942	Supersour #1	UFR-4			
	2911	2921	2931	2941	2951	2961			
	Row 1	Row 2	Row 3	Row 4	Row 5	Row 6			
	Bed 1		Bed 2		Bed 3				



https://www.google.com/maps/d/u/0/edit?mid=1hs_DxvIN7aD-oN6_oSAjDHaLEsd0tnCf&usp=sharing

Multi Agency Coordination (MAC) – Grapefruit Variety Trial (Experimental portion)

Partner' name	Visited by IFAS	Trees planted	1 st size measurement	No. of trees
Peter Spyke	TBA			
Rusty Banack & IFAS/IRREC	2/2/2021	04/23-24-25 / 2021		3,666
Tim Dooley - Blue Goose	9/18/2020	Block #17: 01/19/2021	3/22/2021	574
Cody Estes	7/27/2020	Aug/2020	12/1/2020	490
Jason Lingle	9/16/2020	4/28/2021		280
Tom Hammond	9/22/2020			
Brian Randolph - IMG Citrus – St. Lucy	10/8/2020	3/23/2021		273
Brand Schirard - IR Exchange Packers	2/3/2021			
Brand Schirard - Schirard Groves				
Tom Kirschner - Hunt Bros	2/19/2021	3/15/2021		
Scott Lambeth - Indian River Exchange Packers	9/17/2020	4/2/2021		280
Marty McKenna	No visit	1/18/2021		287
Matthew Hamilton	11/17/2020	12/22/2020	3/22/2021	287
Brian Randolph IMG- Chiquita Block	8/7/2020	11/11/2020	11/30/2020	574
Pat Schirard	10/2/2020	01/19 + 02/08/2021	3/22/2021	574
David Bass/Randy Weaver - Premier	7/16/2020			
Ken Scott	9/17/2020	03/10-16/2021		826
Michael Monroe - Sun Ag	7/24/2020	Unknown	12/2/2020	861
Total				8,972

+32,234 trees in the grower portion



Initial visit - IFAS

After planting



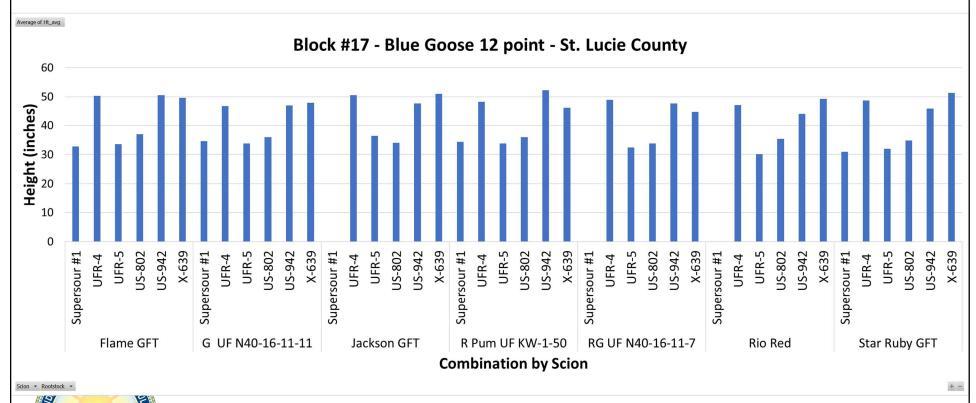


Video: Planting at the Moshell Block – Vero Beach, FL (UF/IFAS trees)





Preliminary data – tree growth – post planting



(tree size data to be collected in 41 sites)

Current: years 0 to 3

- Finish Planting
- Take initial data
- Request an additional 12 months from funding agency to complete Phase 1.



Next steps: Phase 2, years 4-6

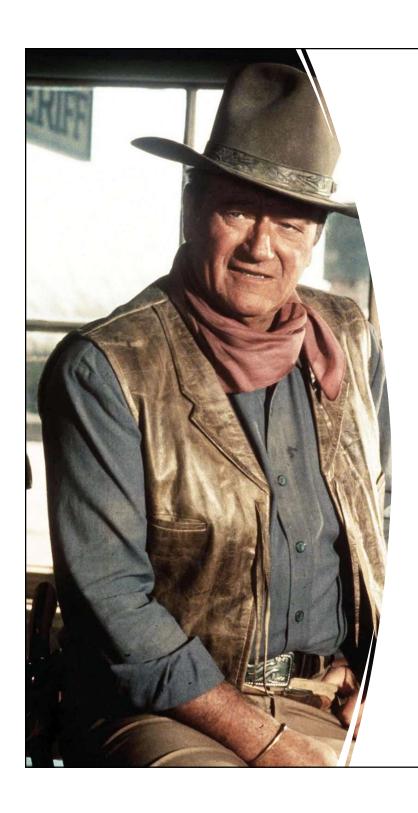
- Planning for Phase 2 with FDACS-DPI, UF-IFAS-IRREC and IRCL
- Acquire funding for Phase 2 from HLB MAC



Next steps: Phase 2, years 4-6

- Tree Size Measurements
- HLB Assessments
- Fruit Yield and Quality Assessments





- Next steps: Phase 2, years 4-6
 - Before we can begin Phase 2.....
 - We must complete Phase 1 and spend the appropriated monies.

Acknowledgements

We thank all the participant growers, their planting crew, and Richard Chandler for assisting during the planting process. We also thank the UF/IFAS IRREC Ferrarezi Citrus Horticulture Lab Staff for their help during the sorting/arrangement of trees before planting.

We acknowledge Karen Smith, Megan King, Greg Taylor, and Dr. Edzard Van Santen for their endless effort to facilitate the inspection, delivery, communication, data collection and analysis.

