ESTABLISHING CITRUS RESEARCH TRIALS TO SUPPORT THE GROWING INDUSTRY IN GEORGIA AND THE SOUTHEAST

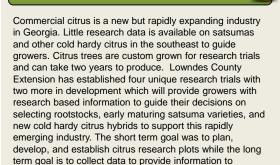
Price,*J1., Dawson, J2., Carter, A3., Shealey, J4., Sawyer, A5.

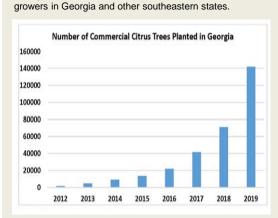
¹Extension Agent, University of Georgia, Valdosta, GA 31601 ³Extension Agent, University of Georgia, Valdosta, GA 31601

⁵Extension Agent, University of Georgia, Valuosta, GA 31001

²Extension Agent, Ft. Valley State University, Valdosta, GA 31601 ⁴Extension Agent, University of Georgia, Statenville, GA 31648

NEED/GOAL STATEMENT





Trial #1	Trial #2	Trial #3	Trial #4	Trial #5 & #6
OWARI SATSUMA	EARLY MATURING	ORANGE	SUGAR BELLE	SATSUMA &
ON 10	SATSUMA	FROST(OF)	ON 4	TANGO ON NEW
ROOTSTOCKS	VARIETIES	& ARTIC(AF)	ROOTSTOCKS	HLB TOLERANT
(6 repetitions)	(6 repetitions)	(6 repetitions)	(5 repetitions)	ROOTSTOCKS
Planted 2014	Planted 2016	Planted 2018	Planted 2018	(2020)
Swingle	Okitsu Wase	OF/Rubidoux	SB/US-897	US-1279
Sour Orange	Miho Wase	OF/US-852	SB/US-942	US-1282
Cleopatra	Ueno	AF/Rubidoux	SB/Rubidoux	US-1283
Rubidoux	Owari 25	Owari/Rubidoux	SB/US-852	US-1516
US-897	Brown Select			UFR-6
US-852	Miyagawa			UFR-17
US-942	Iveriya			US-942
US-812	Iwasaki			US-812
X-639	Sweet Frost			US-1777
Kuharski	Xie Shan			Rubidoux

OBJECTIVES

- Compare satsuma cold hardiness, yield, disease resistance, and fruit quality on new citrus rootstocks.
- Find the best early maturing satsuma varieties for Georgia and the southeast.
- Evaluate newly released citrus hybrids that have potential in Georgia on newer rootstocks.

METHODS

- Collaborate with USDA-ARS in Ft. Pierce Florida and National Germplasm Repository for Citrus in Riverside California.
- Cooperate with USDA certified citrus nurseries in Florida: Briteleaf, Rucks, & Agromillora to grow rootstocks and research trees.
- Negotiated trial agreement between Greenleaf Nursery of Oklahoma and the University of Georgia Board of Regents to propagate satsuma hybrids.
- Propagated trees for trials at Loch Laurel Nursery in Georgia using budwood that could not be shipped to Florida for propagation.

RESULTS

- Obtained "Owari" satsuma trees on 10 standard and newly developed rootstocks.
- Successfully propagated early maturing satsuma varieties from California for a trial.
- Successfully propagated 2 potentially cold-hardy satsuma hybrids "Artic & Orange Frost", developed in Texas for trial.
- Obtained the potentially cold-hardy University of Florida patented variety "Sugar Belle", on 4 rootstocks for trial.
- 9 new HLB tolerant rootstocks have been tissue cultured for a trial to be planted in 2020.

IMPACT

- Satsumas are being evaluated on new rootstocks that have never been tested before. Three year preliminary data shows promising new rootstocks.
- New hybrid satsuma varieties are being evaluated in the southeast for the first time.
- "Sugar Belle" which has HLB tolerance, is being evaluated for the first time in Georgia.
- Early maturing satsuma varieties never tested in the southeast have begun to yield fruit data as of 2019.
- Tango mandarins and Silverhill satsumas are being grown on HLB tolerant rootstocks for a trial that will provide data as HLB encroaches on Georgia growers.





