



Owari Satsuma





Satsuma yield and quality at NFREC-Quincy from 2009-2014

Scion/Rootstock				
	Brown Select/ Rubidoux	Brown Select/ Flying Dragon	Owari/ Rubidoux	Owari/ Flying Dragon
Fruit Yield (lbs)	246	143	218	107
Fruit Size (g)	154	151	144	139
Acidity (pH)	3.73	3.75	3.70	3.73
Soluble Solids (Brix)	9.6	10.3	9.8	10.3

Satsuma yields and quality at NFREC-Quincy for 2016.

Scion/Rootstock				
	Brown Select/ Rubidoux	Brown Select/ Flying Dragon	Owari/ Rubidoux	Owari/ Flying Dragon
Fruit Yield (lbs)	487 ± 23	220 ± 19	335 ± 21	106 ± 12
Cull Yield (lbs)	94 ± 20	46 ± 9	109 ± 11	28 ± 5
Total Yield (lbs)	580 ± 24	266 ± 22	448 ± 22	134 ± 16
Fruit Size (g)	120 ± 3	111 ± 3	109 ± 4	108 ± 3
Acidity (pH)	3.38 ± 0.01	3.43 ± 0.02	3.42 ± 0.02	3.46 ± 0.02
Soluble Solids (Brix)	10.8 ± 0.1	11.2 ± 0.1	10.6 ± 0.1	10.3 ± 0.1





Navel Orange



Glen Navel



Navel



Red Navel





Minneola Honeybell



Minneola Honey Belle





Sugar Belle (Mandarin Orange Hybrid)

Sugar Belle



Sugar Belle



Sugar Belle



Sugar Belle

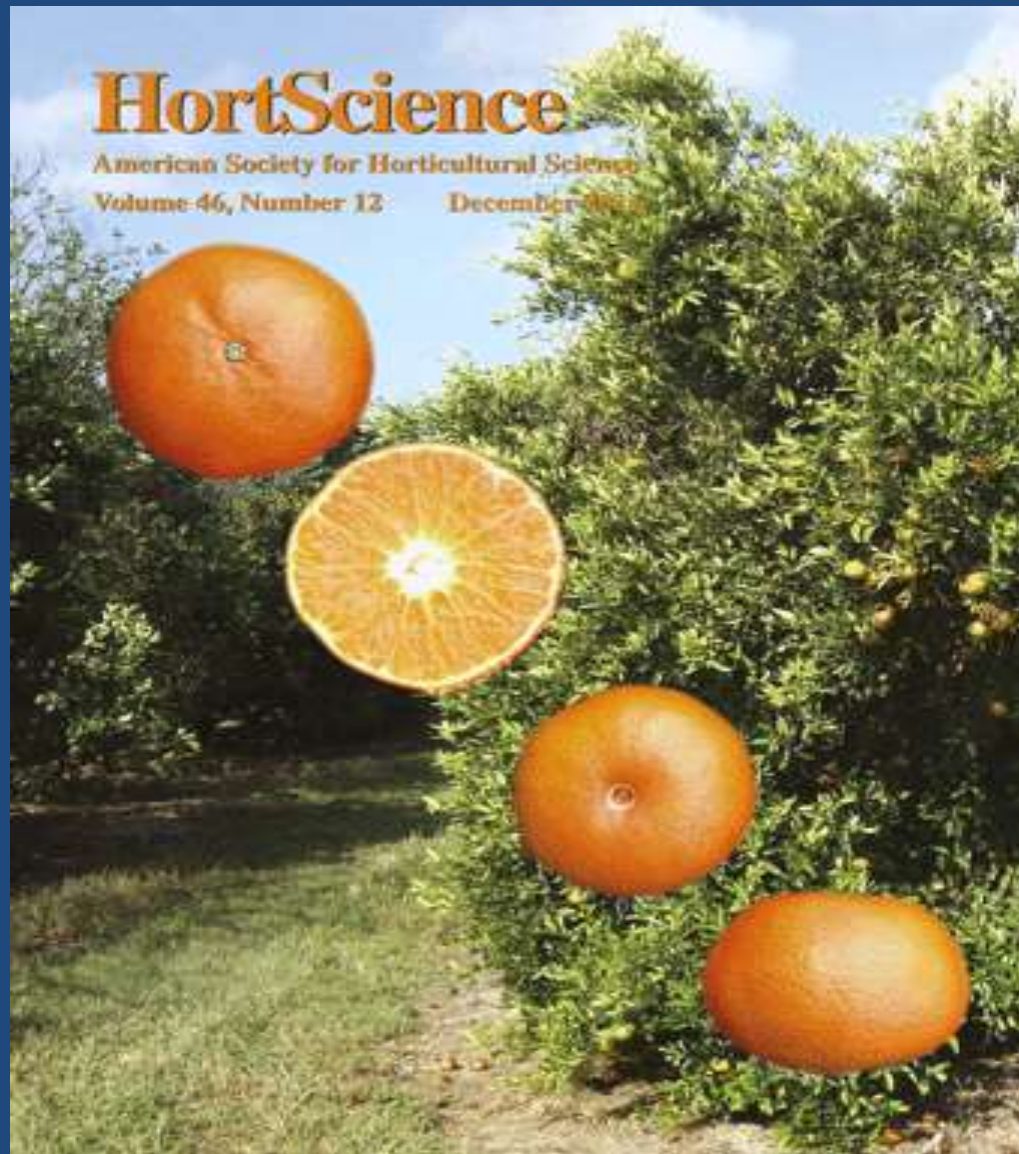


Tango



Tango





Early Pride (Mandarin hybrid)

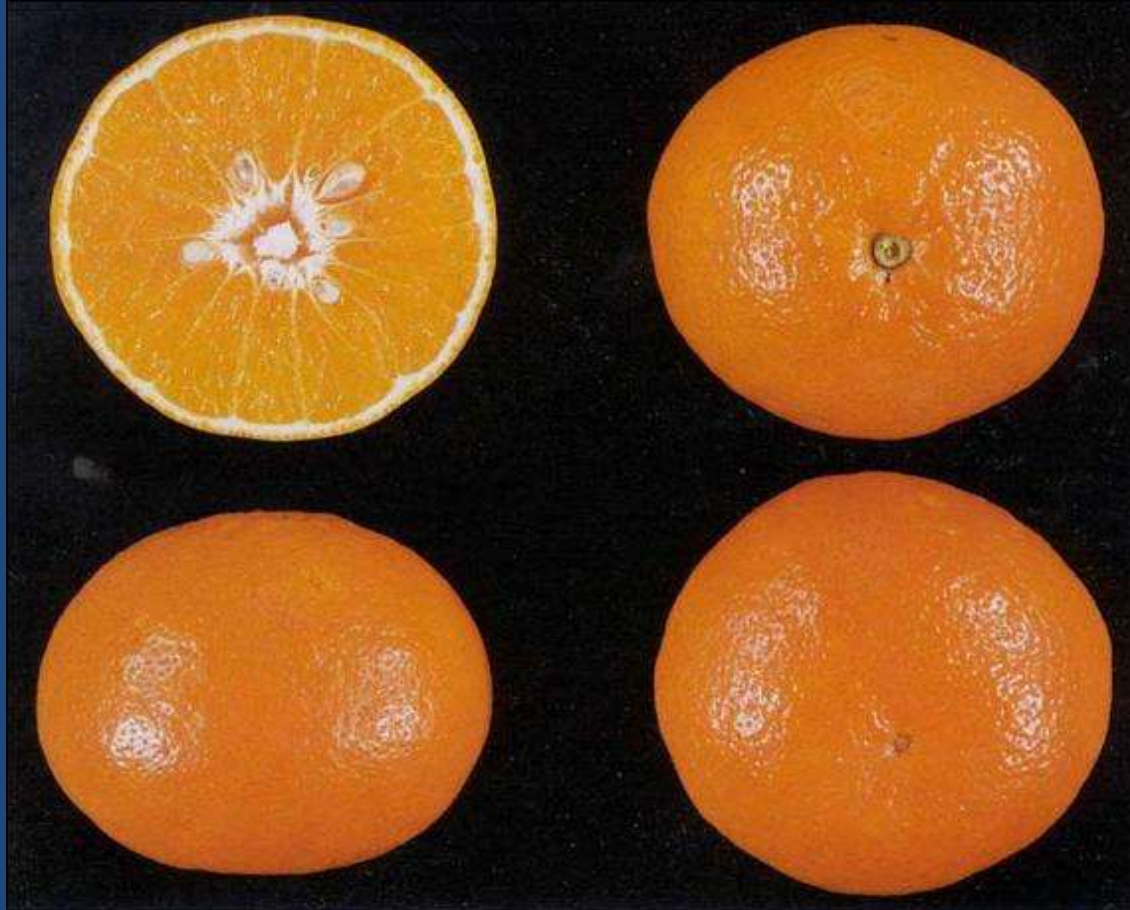
Early Pride



Orlando Tangelo



Orlando Tangelo



Valencia



Valencia EV1 Dec.



Credit: New Variety Development Corp.

Nova



Bud Blood



Fruit Characteristics of young (< 8 years) citrus at NFREC-Quincy (2016).

Scion	Rootstock	Fruit Size (g)	Soluble Solids (Brix)	Acidity (pH)
Tango	Swingle	102	12.4	3.27
Nova	Kinkjoi	136	11.7	3.47
Bud Blood	Trifoliate	124	12.6	3.46
Early Pride	Swingle	137	13.0	3.47
Sugar Belle	Swingle	137	15.5	3.17
Glen Navel	Swingle	192	12.6	4.10
Glen Navel	US897	199	14.5	4.06
Xie Shan satsuma	Swingle	137	11.2	3.24
Owari satsuma	Swingle	136	11.0	3.67
Brown Select satsuma	Swingle	168	10.5	3.32

Yields, fruit weight and soluble solids for 2017.

Scion/Rootstock	Age	Yield (lbs/tree)	Fruit size (g)	Soluble Solids Brix
Tango/897	4	52.8	110	11.4
Tango/Swingle	4	2.8	101	11.8
Tango/Swingle	6	45.9	128	10.7
Tango/Swingle	8	153.2	128	10.7
Bud Blood/Trifoliata	4	12.8	153	11.3
Nova/Kinkoji	4	22.4	157	12.0
Orlando Tan/Swingle	4	38.3	210	10.1
Glen Navel/Swingle	4	13.2	293	10.4
Glen Navel/897	4	41.8	375	10.1
Sugar Belle/897	4	31.5	162	13.0
Early Pride/ Swingle	6	11.8	165	11.9
SugarBelle/Swingle	4	16.2	168	12.4
Sugar Belle/Swingle	6	52.0	177	13.7
Sugar Belle/Swingle	8	298.3	180	13.6
Wash. Navel/Carrizo	13	168.3	356	10.1
Red Navel/Carrizo	13	163.9	392	9.1
Honeybelle/Carrizo	13	143.4	260	11.5

New UF Mandarin/hybrids

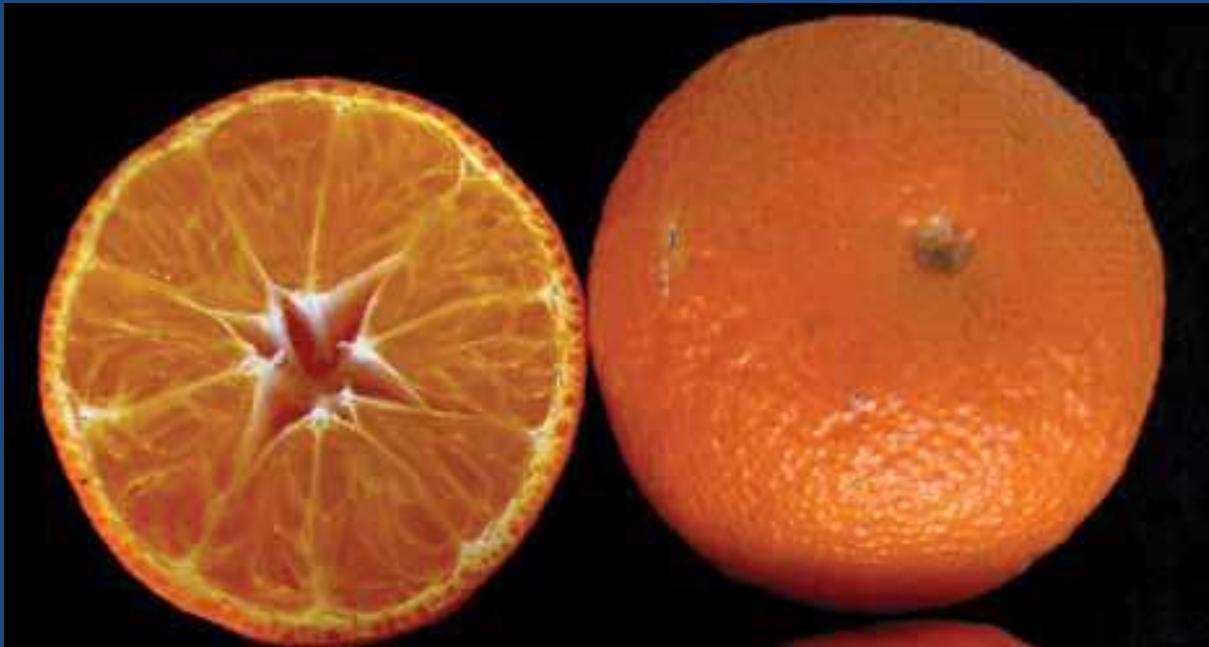
- **UF 900** - Early season (Sept./ Oct.). Seeds.
- **UF C4-15-19** - Early to Mid Season (Oct./Nov.)
Very Sweet. Excellent Color. Seedless.
- **Bingo** - Early to Mid Season. Seedless.
- **Seedless Snack** - Mid Season (Late Oct./Nov.)
Seedless.
- **UF Glow** - Mid Season (Nov.). Seedless.
- **UFSunrise** - Mid Season (Nov.). Seedless.
- **UF950** - Late Season (Dec.) Seedless.
- **UFDawn** - Late Season (Dec.). Seedless.

UF900 Sept. to Oct.



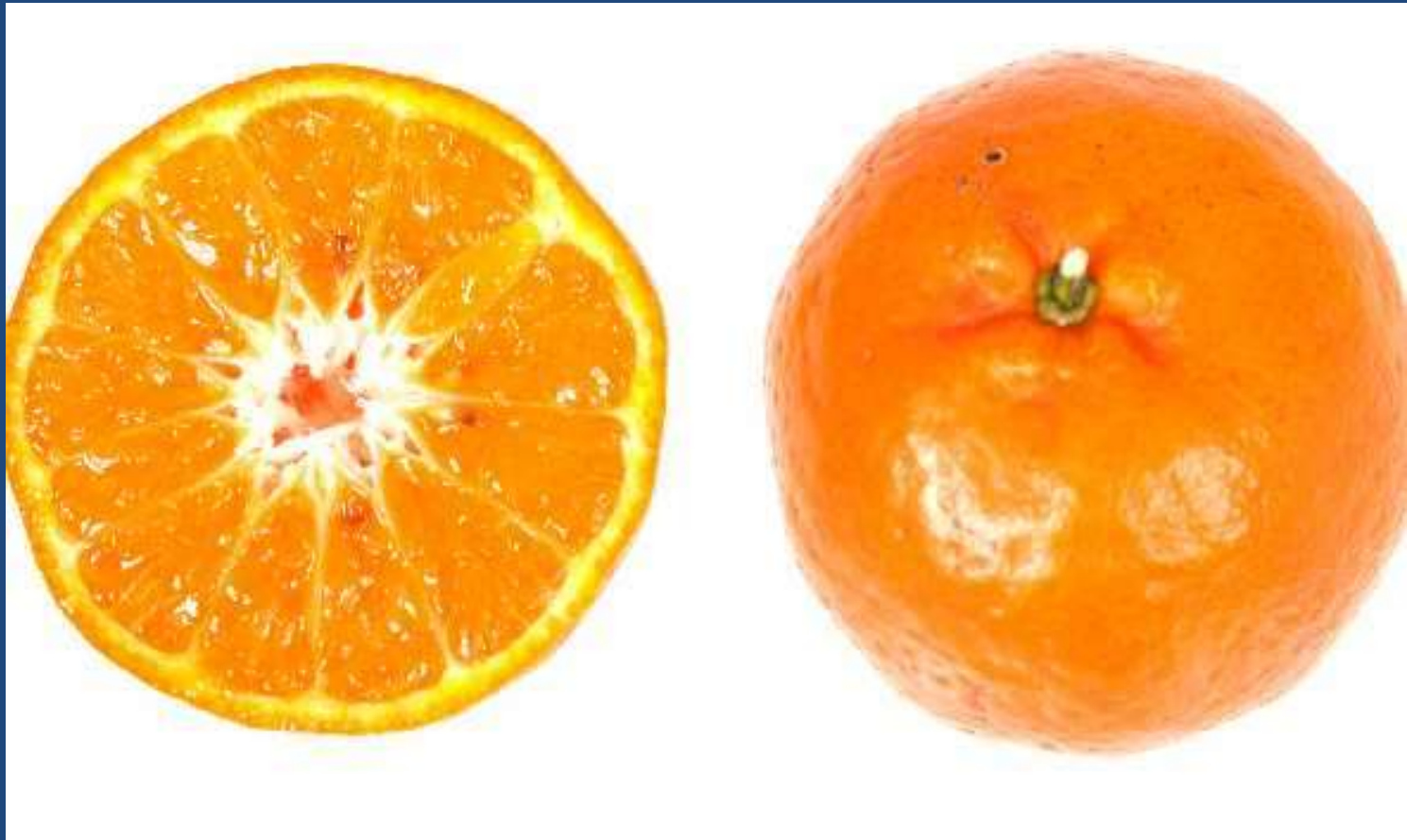
Credit: New Variety Development Corp.

UF C4-15-19 Oct. to Nov.



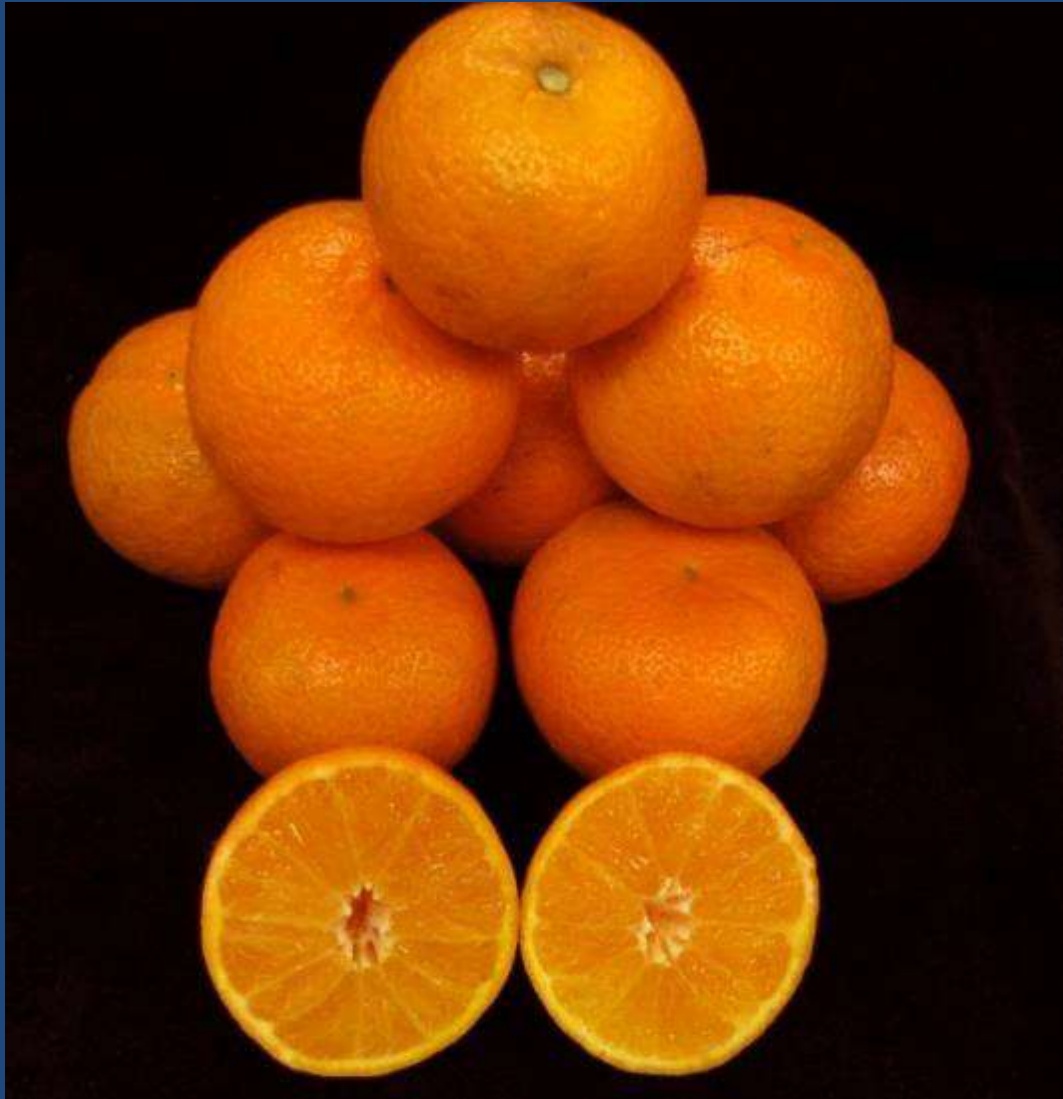
Credit: Fred Gmitter, Jude Grosser and Bill Castle

Bingo Oct. to Nov.



Credit IFAS communications

Seedless Snack Late Oct. to Nov.



Credit: Fred Gmitter

UFGlow Mid-Oct to mid-Dec.



Credit: Kamille Chaparro

UFSunrise Mid-Nov. to mid-Dec.



Credit: Kamille Chaparro

UF950 Dec.



Credit: Fred Gmitter, Jude Grosser and Bill Castle

UFDawn Early to mid-Dec.

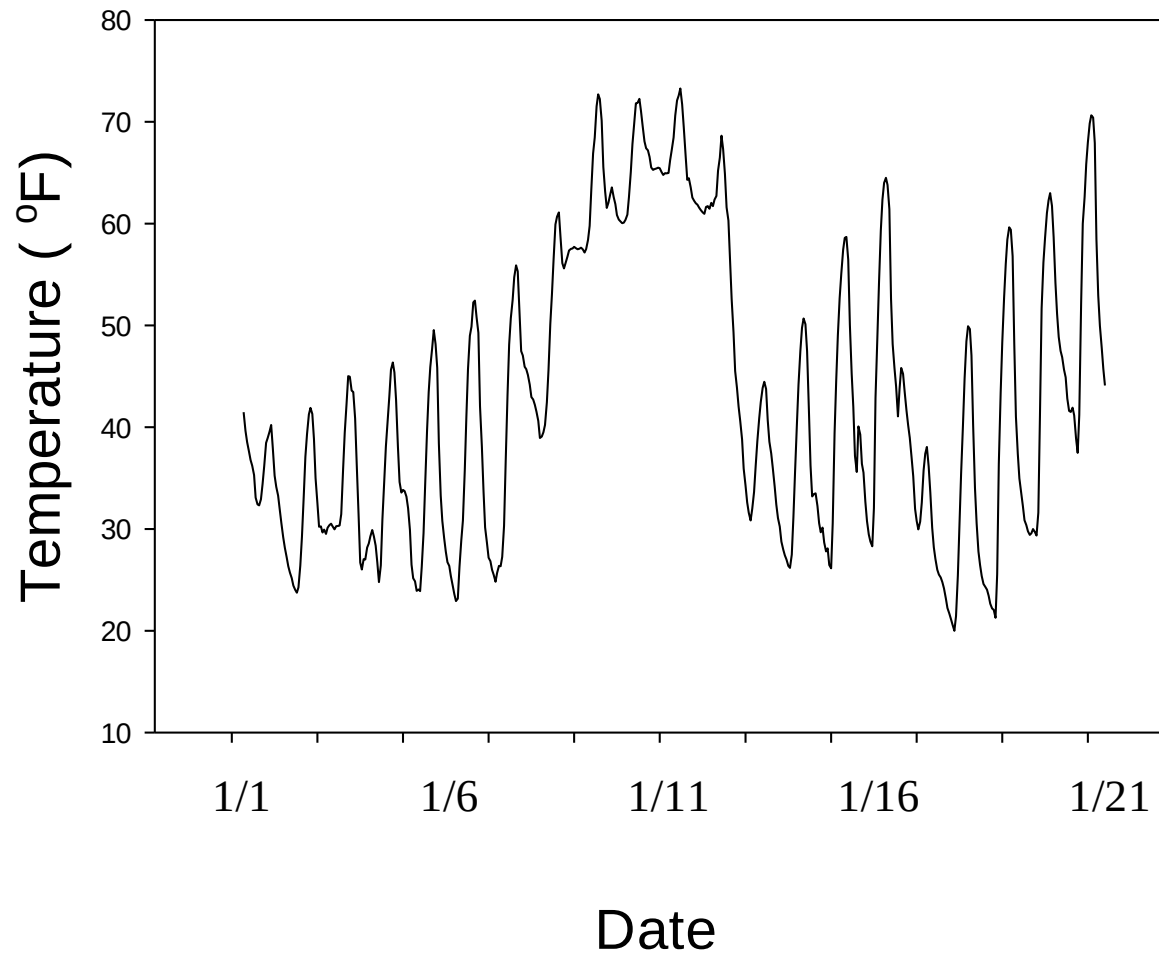


Credit: Kamille Chaparro

Ranking of Freeze Tolerance

- For mature trees ranking:
 - Satsuma (Trifoliate orange rtsk) most tolerant - No damage.
 - Mature Navel and Honeybell (Carrizo rtsk)- Tip burn.
- For young trees (All Swingle rtsk) ranking:
 - Satsuma - little or no damage.
 - Sugar Belle - 9 of 16 survived. Trunk sprouts. Leaf burn.
 - Tango - 2 of 16 trees survived. Trunk sprouts. Most trees killed above soil mound.
 - Minneola Honeybelle - 0 of 16 survived. Some trunk sprouts. Trees killed above soil mound.
 - Early Pride - 0 of 16 survived. Some trunk sprouts. Trees killed above soil mound.

Temperatures at NFREC-Quincy, Jan1-21, 2018



Older Planting



Cold Hardiness (1-10, 10=Best)

- Tango/ US 897 9.4
- Sugar Belle/ US897 9.2
- Wash. Navel/ Carizzo 9.1
- Minneola/ Carizzo 9.0
- Sugar Belle/ Swingle 8.9
- Glenn Navel/ Swingle 8.8
- Glenn Navel/ US 897 8.8
- Orlando Tangelo/ Swingle 8.3
- Nova/ Kinkoji 8.2
- Bud Blood/ P. trifoliata 8.0
- Early Pride/ Swingle 6.5

New Planting



Cold Hardiness (1-10, 10=Best)

• Sugar Belle/ Swingle	7.8	UF Sunrise/ Swingle	5.5
• UF 950/ Swingle	7.5	UF Sunrise/ US 897	4.7
• UF 950/ US 897	6.5	UF Dawn/ US 897	4.7
• Tango/ US 897	6.4	UF Dawn/ Swingle	4.7
• UF 900/ US 897	6.4	UF Glow/ Swingle	4.4
• Seedless Snack/ US 897	6.4	UF 4-15-19/ Swingle	4.2
• Seedless Snack/ US 942	6.0	UF Glow/ US 897	3.7
• UF 900/ Swingle	5.6	Bingo/ US897	3.2



UFSunrise

