

# Multi-Sweet Orange Scion SW Flatwoods Rootstock Trial, LaBelle

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CREC Citrus Plant Improvement*

## Multi-Sweet Orange Scion SW Flatwoods Rootstock Trial - Description

Trial consists of 25 late-maturing orange selection/rootstock combinations (approximately 1100 trees planted as resets in 2014) planted in southwest Florida. The scion selections are 'Valencia' B9-65, OLL-8 and OLL-20 sweet oranges on 7 new sour orange-like hybrid rootstocks along with UFR-2, UFR-4, UFR-15 and UFR-17 rootstocks. The project also includes a new UF 'Hamlin' clone N13-32 on the same rootstocks (data not presented). The overall goal of the trial is to identify scion/rootstock combinations for southwest Florida flatwoods sites.

## Multi-Sweet Orange Scion SW Flatwoods Rootstock Trial - Summary

- Location: LaBelle, Hendry county.
- Scion: 'Valencia' B9-65, OLL-8 and OLL-20 sweet oranges
- Rootstocks: 7 new sour orange-like hybrid rootstocks and UFR-2, UFR-4, UFR-15 and UFR-17 rootstocks
- Date planted: 2014
- Data:
  - 2017/18: Yield; HLB rating; tree size rating.
- Trial status: **ACTIVE**

Table 1. Multi-Sweet Orange Scion SW Flatwoods Rootstock Trial - Rootstock parentage and number of trees planted

OLL8		
Rootstock	Parentage	Number of Trees
46x20-04-09	Hirado Buntan pummelo x Cleopatra	64
46x20-04-2	Hirado Buntan pummelo x Cleopatra	70
46x20-04-48	Hirado Buntan pummelo x Cleopatra	33
46x20-04-64	Hirado Buntan pummelo x Cleopatra	58
UFR 17: Green 2	[Nova + HBPummelo] x [sour orange + Carrizo]	16
UFR 2: Orange 4	[Nova + HBPummelo] x [Cleopatra + Argentine trifoliate orange]	37
UFR 4: Orange 19	[Nova + HBPummelo] x [Cleopatra + Argentine trifoliate orange]	96
UFR15: 46x20-04-37	[Nova + HBPummelo] x [Cleopatra + Argentine trifoliate orange]	89

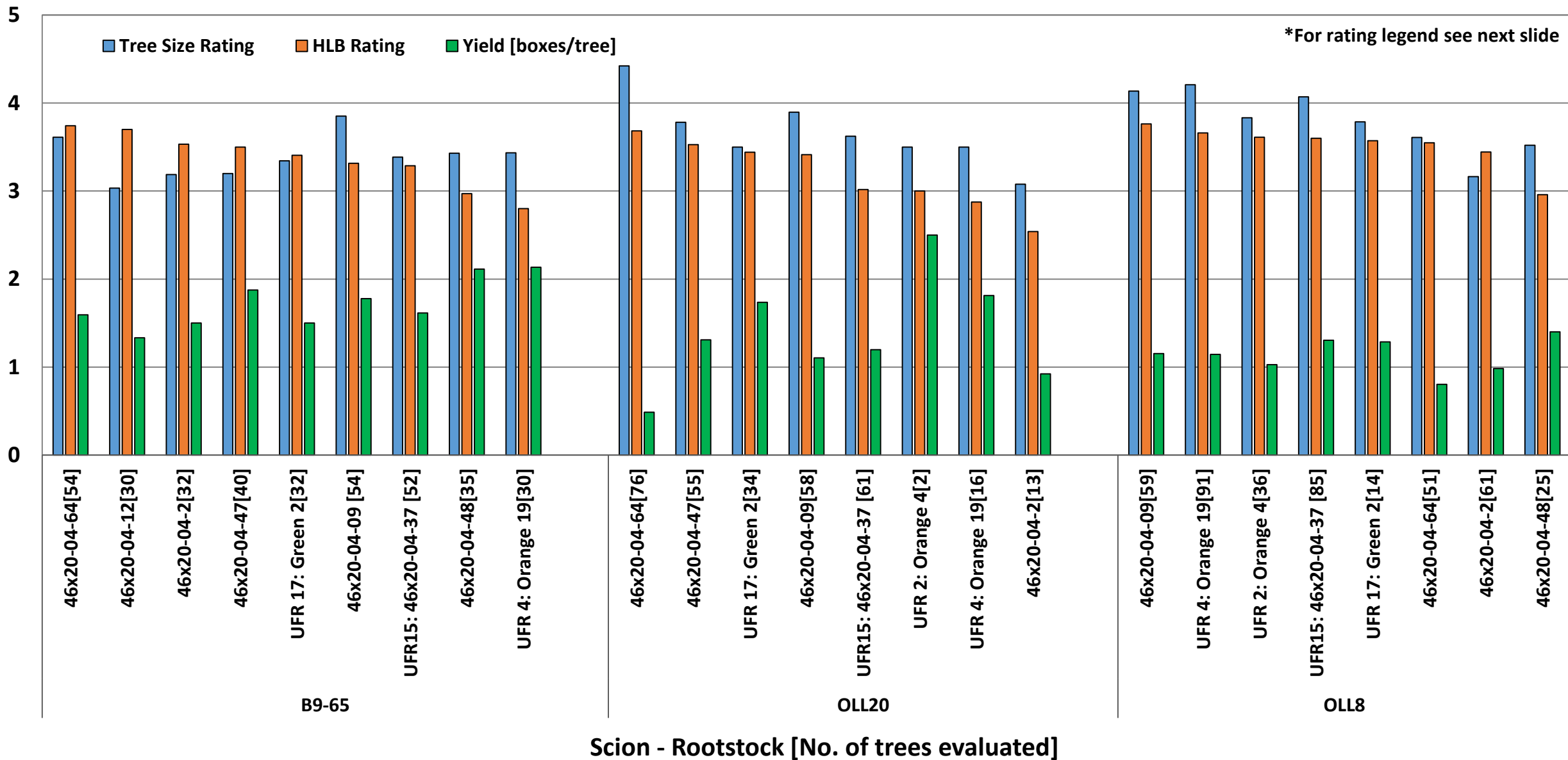
Table 1 (cont'd.). Multi-Sweet Orange Scion SW Flatwoods Rootstock Trial - Rootstock parentage and number of trees planted

OLL20		
Rootstock	Parentage	Number of Trees
46x20-04-09	Hirado Buntan pummelo x Cleopatra	65
46x20-04-2	Hirado Buntan pummelo x Cleopatra	16
46x20-04-47	Hirado Buntan pummelo x Cleopatra	55
46x20-04-64	Hirado Buntan pummelo x Cleopatra	84
UFR 17: Green 2	[Nova + HBPummelo] x [sour orange + Carrizo]	38
UFR 2: Orange 4	[Nova + HBPummelo] x [Cleopatra + Argentine trifoliolate orange]	2
UFR 4: Orange 19	[Nova + HBPummelo] x [Cleopatra + Argentine trifoliolate orange]	18
UFR15: 46x20-04-37	[Nova + HBPummelo] x [Cleopatra + Argentine trifoliolate orange]	69

Table 1 (cont'd.). Multi-Sweet Orange Scion SW Flatwoods Rootstock Trial - Rootstock parentage and number of trees planted

B9-65		
Rootstock	Parentage	Number of Trees
46x20-04-09	Hirado Buntan pummelo x Cleopatra	61
46x20-04-12	Hirado Buntan pummelo x Cleopatra	31
46x20-04-2	Hirado Buntan pummelo x Cleopatra	36
46x20-04-47	Hirado Buntan pummelo x Cleopatra	53
46x20-04-48	Hirado Buntan pummelo x Cleopatra	39
46x20-04-64	Hirado Buntan pummelo x Cleopatra	60
UFR 17: Green 2	[Nova + HBPummelo] x [sour orange + Carrizo]	44
UFR 4: Orange 19	[Nova + HBPummelo] x [Cleopatra + Argentine trifoliate orange]	31
UFR15: 46x20-04-37	[Nova + HBPummelo] x [Cleopatra + Argentine trifoliate orange]	51

Fig.1. Multi-Sweet orange scion SW flatwoods rootstock trial - Tree size & HLB rating and yield [boxes/tree]\* [Nov./17].



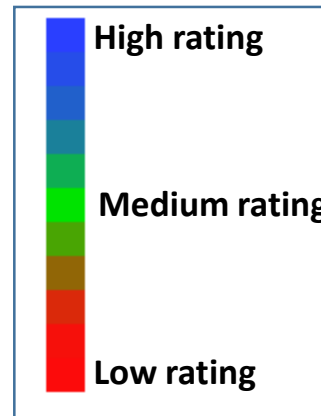
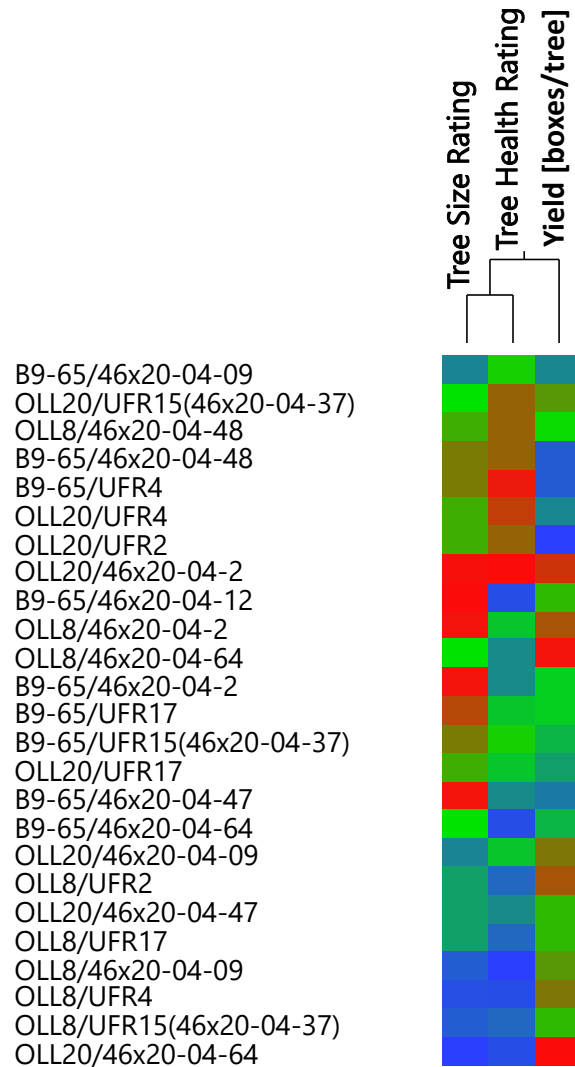
# Rating legend for preceding graph

<b><u>Tree Size Rating</u></b>
5 = Tallest with full canopy 4 = Tallest with thinner canopy 3 = Average size 2 = Smaller with thin canopy 1 = little to no growth thin canopy
<b><u>HLB Rating</u></b>
5 = Healthy with very little HLB 4 = Healthy with some HLB 3 = HLB thru out the tree 2 = Heavy HLB thin canopy 1 = Heavy HLB thin canopy with very little growth
<b><u>Yield [boxes/tree]</u></b>
3 = Very good yield good fruit size 2 = Medium yield 1 = Low yield with small fruit 0 = No fruit



Fig. 2. Multi-Sweet orange scion rootstock trial – Tree size, tree health rating and yield Heat Map [Nov./17].

Data collected from 3-year-old trees



### Heat Map Interpretation

Color coding is used to better visualize the rating for tree size, tree health and yield for sweet orange on each of the rootstocks in this trial. A high (Best) rating is in blue and low (Worst) rating is in red. The other colors represent the values between high and low according to the color scale.