

SW Florida Sweet Orange Rootstock Planting

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CREC Citrus Plant Improvement*

SW Florida Sweet Orange Rootstock Planting - Description

This trial planted in a southwest Florida flatwoods site consists of 36 sweet orange/rootstock combinations (approximately 2800 trees planted in 2014). The scions are: 'Valencia' B9-65, OLL-8 and OLL-20 sweet oranges on 7 new sour orange-like hybrid rootstock candidates along with UFR-4, UFR-15, UFR-17 and White 1. The trial is not replicated, rather, combinations are planted in solid blocks. The trial was heavily impacted by Irma, with some flooding. The goal is to identify successful scion/rootstock combinations for southwest Florida flatwoods.

SW Sweet Orange Rootstock Planting - Summary

- Location: Immokalee, Collier 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, UFR-17 and White 1 rootstocks
- Date planted: 2014
- Data:
 - 2017/18: Yield; HLB rating; tree size rating.
 - 2018/19: HLB rating and tree size rating

- Trial status: **ACTIVE**

Rating legend for preceding graph

<u>Tree Size Rating</u>
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
<u>HLB Rating</u>
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
<u>Yield [boxes/tree]</u>
3 = Very good yield good fruit size 2 = Medium yield 1 = Low yield with small fruit 0 = No fruit

Fig. 1. SW Florida Sweet Orange rootstock planting – Tree size and HLB rating* and Yield [boxes/tree, Nov./17].

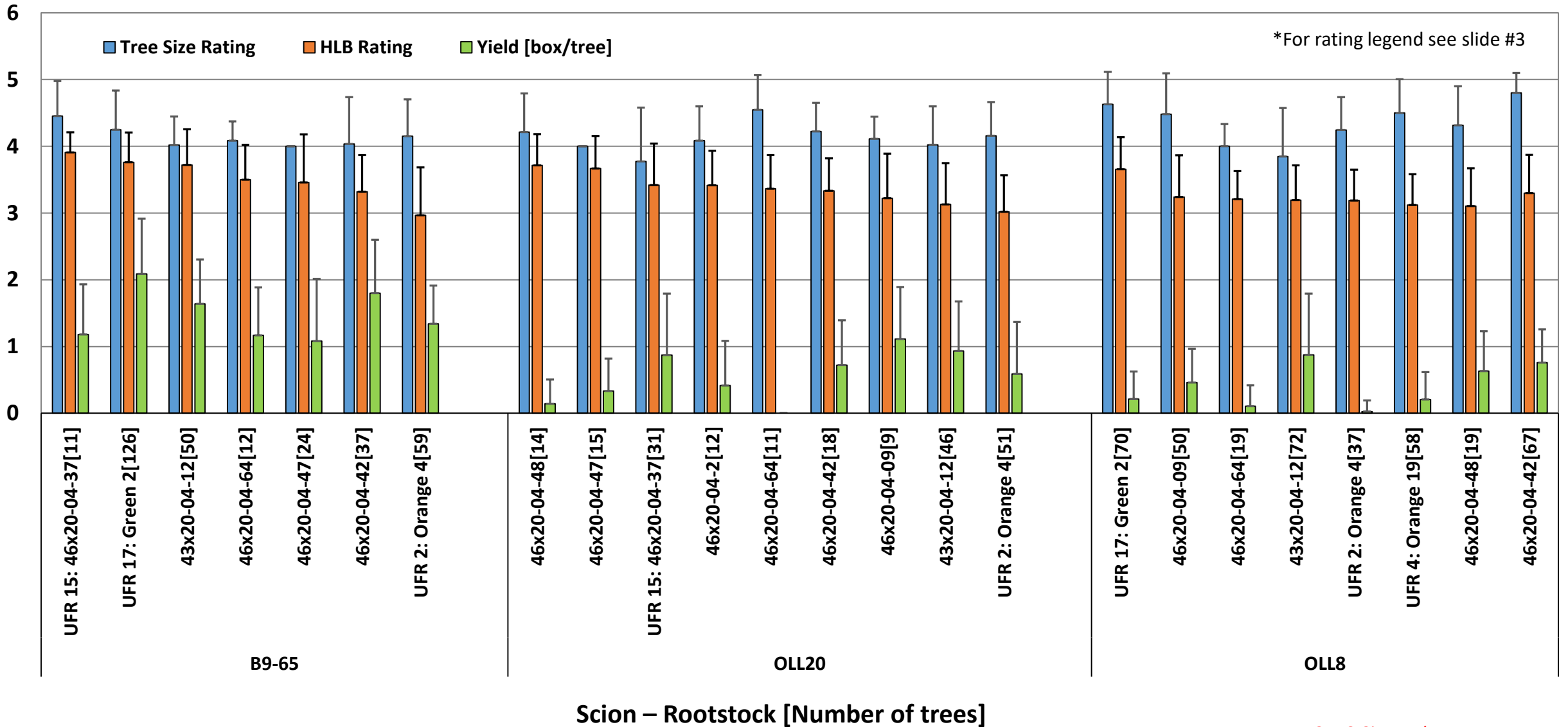
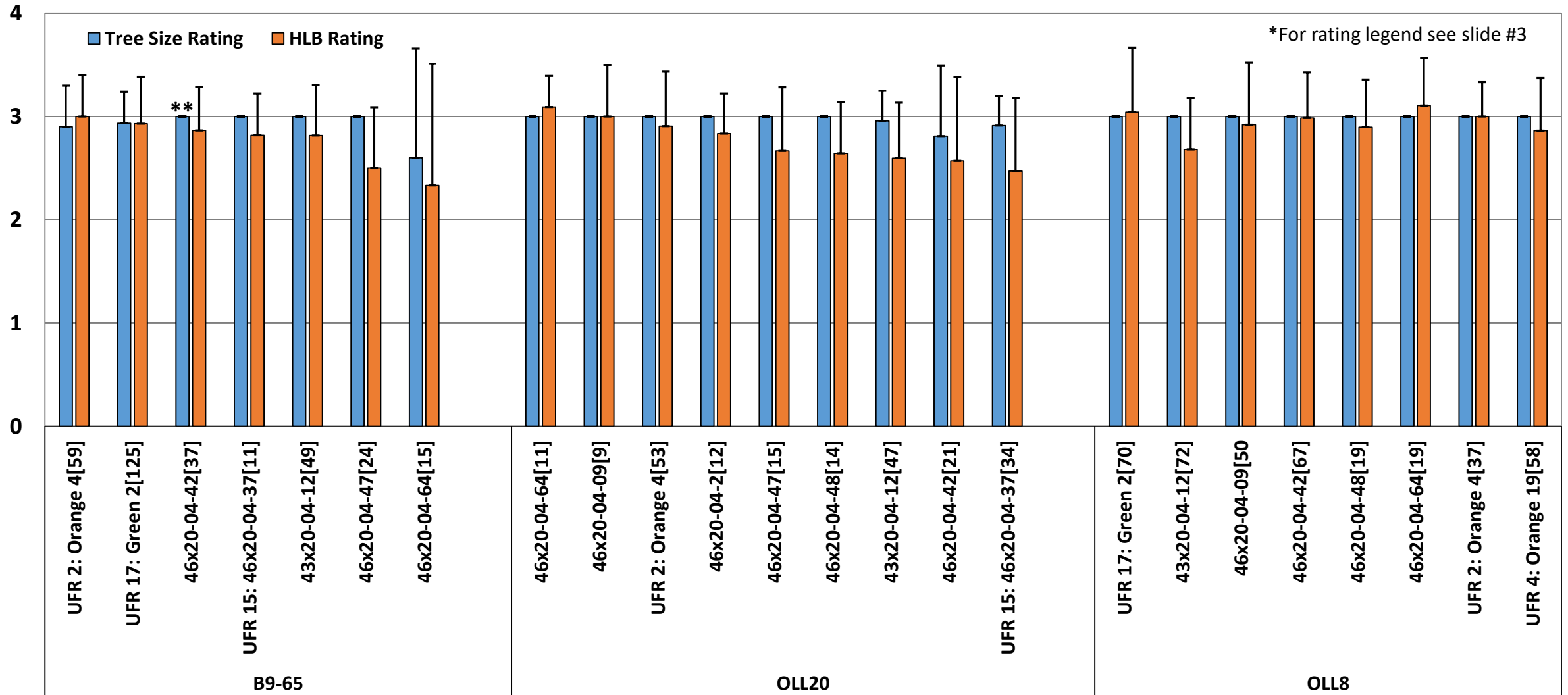


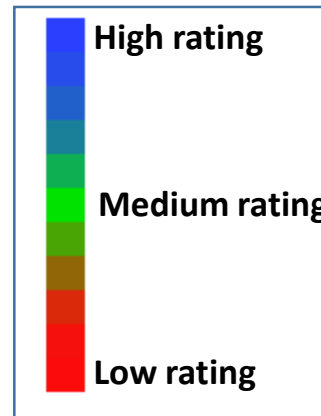
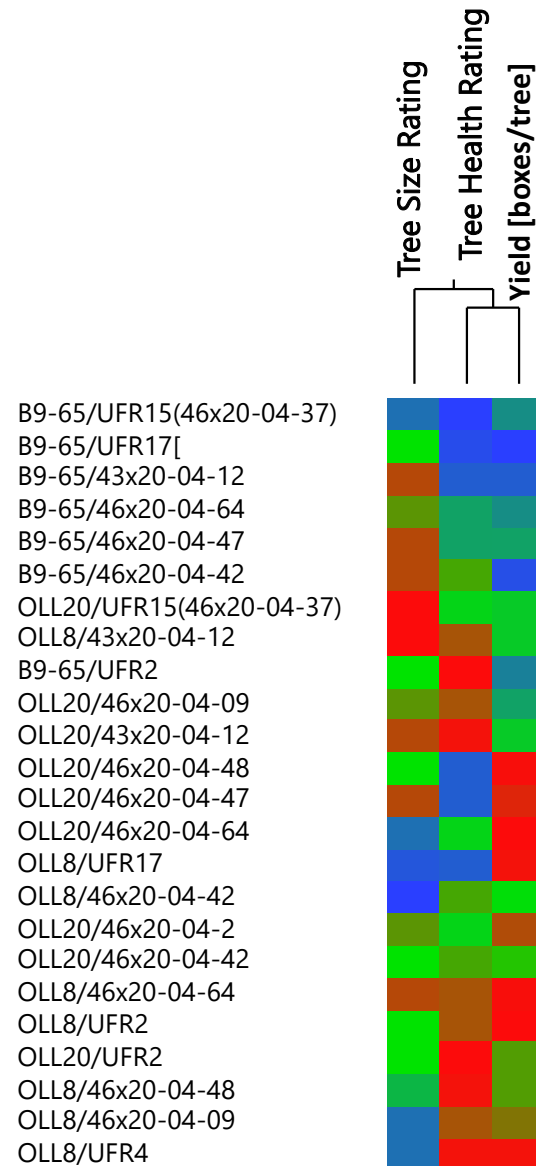
Fig. 2. SW Florida Sweet Orange rootstock planting – Tree size and HLB rating*: mean + std. dev. [Nov./18].



** Rootstocks without a bar, std. dev. = 0

Scion - Rootstock [Number of trees]

Fig. 3. SW Florida Sweet Orange rootstock planting – Heat Map: Tree size and health rating and yield Data collected from 3 year old trees [Nov./17].



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 for each rating. The other colors represent the values between high and low according to the color scale.