Vero Beach Navel Orange and Grapefruit Rootstock Trial

Dr. Bill Castle – Dr. Fred Gmitter - Dr. Jude Grosser
Vero Beach Navel and Grapefruit Rootstock Trial - Description

This trial was planted in 2010 west of Vero Beach along Highway 60 and south on 146th Avenue. There are trees of Redblush, Ray Ruby and Star Ruby grapefruit with Ray Ruby on Swingle citrumelo and Cara Cara navel and standard navel clone 56-11 along with 56-11 on Swingle citrumelo planted on a broad range of 42 new hybrid rootstocks created in the UF/CREC plant improvement program or introduced from the USDA, the University of California, Riverside or Spain [FA series-Forner program]. Tree numbers and rootstocks vary according to the scion.
Vero Beach Navel and Grapefruit Rootstock Trial

Location: Vero Beach

Scion - Rootstocks:
- Navel orange (Cara Cara; standard clone 56-11)
- Grapefruit (Redblush, Ray Ruby, Star Ruby)
- Additional comparison trees: Ray Ruby/Swingle citrumelo; Navel 56-11/Swingle

Date Planted: April 2010

Design:
- Randomized complete-block with 2-4 replicates
- Plot size: mostly 3-5 trees
- Spacing: 7.5 x 22 ft.

Data collected:
- 2015-16: Navel Orange Juice Quality
- 2017-18: Grapefruit Juice Quality
- 2018-19: Grapefruit and Navel Orange Yield
- 2018-19: Tree Health Ratings
- 2018-19: Navel Orange Juice Quality

CREC Citrus Plant Improvement
2015-16 Vero Beach Rootstock Trial – Navel orange, Juice % – Mean + Std.Dev.

(*) Rootstocks without a bar, SD=0

CREC Citrus Plant Improvement
2015-16 Vero Beach Rootstock Trial – Navel orange, Juice Acid - Mean + Std.Dev.

(*) Rootstocks without a bar, SD=0

CREC Citrus Plant Improvement
2015-16 Vero Beach Rootstock Trial – Navel orange, Brix – Mean + Std.Dev.

(*) Rootstocks without a bar, SD=0

Scion - Rootstock

CREC Citrus Plant Improvement
2015-16 Vero Beach Rootstock Trial – Navel orange, Juice Ratio – Mean + Std.Dev.

(*) Rootstocks without a bar, SD=0

CREC Citrus Plant Improvement
2015-16 Vero Beach Rootstock Trial – Navel orange, PS/Box - Mean + Std.Dev.

(*) Rootstocks without a bar, SD=0

CREC Citrus Plant Improvement
2015-16 Vero Beach Rootstock Trial – Navel orange, Juice Color - Mean + Std.Dev.
2017-18 Vero Beach Rootstock Trial – Grapefruit, Juice Acid - Mean + Std.Dev.

(*) Rootstocks without a bar, SD=0

CREC Citrus Plant Improvement
2017-18 Vero Beach Rootstock Trial – Grapefruit, Juice Brix – Mean + Std.Dev.

(*) Rootstocks without a bar, SD=0

CREC Citrus Plant Improvement
2017-18 Vero Beach Rootstock Trial – Grapefruit, Juice Ratio – Mean + Std.Dev.

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(*) Rootstocks without a bar, SD=0

CREC Citrus Plant Improvement
2017-18 Vero Beach Rootstock Trial – Grapefruit, Juice Color – Mean + Std.Dev.

(*) Rootstocks without a bar, SD=0

CREC Citrus Plant Improvement
2018-19 Vero Beach Rootstock Trial – Tree Health Ratings – Grapefruit - Mean + Std.Dev.

Tree Health Ratings
0 = Dead
1 = Heavy decline
2 = Mild decline
3 = Healthy
4 = Very Healthy

(*) Rootstocks without a bar, SD=0

CREC Citrus Plant Improvement
2018-19 Vero Beach Rootstock Trial – Navel orange, Yield [boxes/tree]- Mean + Std.Dev.
2018-19 Vero Beach Rootstock Trial – Tree Health Ratings – Navel orange - Mean + Std.Dev.

| Scion – Rootstock [total number of trees] |

<table>
<thead>
<tr>
<th>Tree Health Ratings</th>
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<tbody>
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CREC Citrus Plant Improvement
2018-19 Vero Beach Rootstock Trial – Navel orange, % Juice – Mean + Std.Dev.

CREC Citrus Plant Improvement
2018-19 Vero Beach Rootstock Trial – Navel orange, Juice Acid - Mean + Std.Dev.
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CREC Citrus Plant Improvement
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CREC Citrus Plant Improvement
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CREC Citrus Plant Improvement