



CITRUS MATURITY TEST RESULTS

Cooperating with the Florida Department of Agriculture and Consumer Services
851 Trafalgar Ct. Suite 310E, Maitland, FL 32751-4132
(407) 648-6013 · (855) 271-9801 FAX · www.nass.usda.gov/fl

September 12, 2019

Results of the first orange and grapefruit maturity tests for the 2019-2020 season, using only regular bloom fruit, are listed below. Over 80 percent of the grapefruit sample groves are located in the Indian River District, while over 90 percent of the orange sample groves are in the other four production areas. Sample groves and trees remain relatively constant from season to season. Fruit was picked from trees throughout the five production areas of the citrus growing region on August 26-27, 2019. Each sample was weighed, juiced, and tested by the Florida Agricultural Statistics Service (FASS) on August 28-29, 2019. The next monthly maturity and yield test results will be published in the October 10, 2019 forecast release, and will include late oranges.

Results on this page are averages for the state. The table on page two reports averages for the Indian River District separately from the other areas. Compared to the other areas, fruit sampled from the Indian River District had lower solids to acid ratios for early oranges and white grapefruit, but higher for red grapefruit. The unfinished juice per box and solids per box in fruit from the Indian River District was lower on all varieties.

Citrus Unadjusted Maturity Tests by Type – Florida: September 1, For Crop Years 2015-2016 through 2019-2020

[Averages of regular bloom fruit from sample groves. Juice and solids per box are unadjusted and not comparable to juice processing plant test results. For 2015-2016 and 2016-2017, all samples were run through an FMC 091 machine using mechanical pressure only. That machine utilized a 0.040 short strainer and standard 5/8 inch orifice tube on all cups. For 2017-2018 through 2019-2020, samples were run through an FMC-091B machine using pneumatic pressure. This machine utilizes a 0.025 short strainer and a 1.00 inch orifice tube for the 3 inch cup and a 1.25 inch orifice tube for the 4 inch and 5 inch cups]

| Fruit Type and Crop Year | Groves sampled | Acid | Solids (Brix) | Solids/Acid | Unfinished juice per box | Solids per box |
|----------------------------------|----------------|-----------|---------------|-------------|--------------------------|----------------|
| | (number) | (percent) | (percent) | (ratio) | (pounds) | (pounds) |
| Early Oranges | | | | | | |
| 2015-2016..... | 120 | 1.26 | 9.14 | 7.33 | 44.82 | 4.09 |
| 2016-2017..... | 120 | 1.39 | 9.26 | 6.79 | 41.39 | 3.83 |
| 2017-2018..... | 117 | 1.17 | 9.10 | 7.96 | 43.84 | 3.99 |
| 2018-2019..... | 120 | 1.19 | 8.84 | 7.51 | 43.68 | 3.86 |
| 2019-2020..... | 120 | 1.21 | 9.06 | 7.58 | 45.11 | 4.09 |
| Midseason Oranges | | | | | | |
| 2015-2016..... | 55 | 1.42 | 9.08 | 6.51 | 45.82 | 4.16 |
| 2016-2017..... | 55 | 1.55 | 9.19 | 5.99 | 41.67 | 3.83 |
| 2017-2018..... | 55 | 1.27 | 8.97 | 7.22 | 44.70 | 4.01 |
| 2018-2019..... | 55 | 1.32 | 8.93 | 6.84 | 44.64 | 3.99 |
| 2019-2020..... | 55 | 1.37 | 9.04 | 6.71 | 45.55 | 4.12 |
| Red Seedless Grapefruit | | | | | | |
| 2015-2016..... | 50 | 1.58 | 9.77 | 6.20 | 35.37 | 3.45 |
| 2016-2017..... | 50 | 1.70 | 10.17 | 6.02 | 33.17 | 3.37 |
| 2017-2018..... | 49 | 1.43 | 9.83 | 6.89 | 37.09 | 3.65 |
| 2018-2019..... | 50 | 1.44 | 9.72 | 6.79 | 36.75 | 3.58 |
| 2019-2020..... | 50 | 1.53 | 10.10 | 6.63 | 39.41 | 3.98 |
| White Seedless Grapefruit | | | | | | |
| 2015-2016..... | 50 | 1.65 | 9.74 | 5.91 | 35.06 | 3.41 |
| 2016-2017..... | 50 | 1.78 | 10.24 | 5.77 | 31.92 | 3.26 |
| 2017-2018..... | 48 | 1.53 | 9.75 | 6.39 | 37.19 | 3.63 |
| 2018-2019..... | 50 | 1.53 | 9.84 | 6.45 | 36.37 | 3.58 |
| 2019-2020..... | 50 | 1.63 | 10.32 | 6.36 | 38.92 | 4.02 |

Citrus Fruit Maturity Test Averages, by Area – Florida: September 1, 2019

| Fruit type and Area | Groves sampled | Acid | Solids (Brix) | Solids/Acid | Unfinished juice per box | Solids per box |
|-----------------------|----------------|-----------|---------------|-------------|--------------------------|----------------|
| | (number) | (percent) | (percent) | (ratio) | (pounds) | (pounds) |
| ORANGES: | | | | | | |
| Early | | | | | | |
| Indian River..... | 9 | 1.31 | 9.44 | 7.23 | 40.85 | 3.86 |
| Other areas..... | 111 | 1.20 | 9.03 | 7.61 | 45.46 | 4.11 |
| Midseason | | | | | | |
| Indian River..... | 2 | (D) | (D) | (D) | (D) | (D) |
| Other areas..... | 53 | 1.37 | 9.03 | 6.72 | 45.57 | 4.11 |
| GRAPEFRUIT: | | | | | | |
| Red Seedless | | | | | | |
| Indian River..... | 42 | 1.53 | 10.15 | 6.65 | 38.83 | 3.94 |
| Other areas..... | 8 | 1.50 | 9.82 | 6.56 | 42.51 | 4.17 |
| White Seedless | | | | | | |
| Indian River..... | 43 | 1.64 | 10.37 | 6.34 | 38.49 | 3.99 |
| Other areas..... | 7 | 1.56 | 10.07 | 6.48 | 41.61 | 4.19 |

D Withheld to avoid disclosing data for individual operations.

