



# CITRUS JANUARY FORECAST

## MATURITY TEST RESULTS AND FRUIT SIZE

Cooperating with the Florida Department of Agriculture & Consumer Services  
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January 10, 2014

**Florida All Orange Production Down 5 Percent**  
**Florida Non-Valencia Orange Production Down 4 Percent**  
**Florida Valencia Orange Production Down 6 Percent**  
**Florida All Grapefruit Production Down 1 Percent**  
**Florida All Tangerine Production Down 6 Percent**  
**Florida Tangelo Production Unchanged**  
**FCOJ Yield 1.61 Gallons per Box (42° Brix)**

| FORECAST DATES    | — | 2013-2014 SEASON |
|-------------------|---|------------------|
| February 10, 2014 |   | May 9, 2014      |
| March 10, 2014    |   | June 11, 2014    |
| April 9, 2014     |   | July 11, 2014    |

### Citrus Production by Type and State – United States

| Crop and State                           | Production <sup>1</sup>    |                            |                            | 2013-2014 Forecasted Production <sup>1</sup> |                          |
|--|----------------------------|----------------------------|----------------------------|--|--------------------------|
|  | 2010-2011<br>(1,000 boxes) | 2011-2012<br>(1,000 boxes) | 2012-2013<br>(1,000 boxes) | December<br>(1,000 boxes)                    | January<br>(1,000 boxes) |
| <b>Non-Valencia Oranges <sup>2</sup></b> |                            |                            |                            |  |                          |
| Florida .....                            | 70,300                     | 74,200                     | 67,100                     | 56,000                                       | 54,000                   |
| California .....                         | 48,000                     | 45,500                     | 44,000                     | 44,000                                       | 42,000                   |
| Texas .....                              | 1,700                      | 1,108                      | 1,499                      | 1,400  | 1,455                    |
| United States.....                       | 120,000                    | 120,808                    | 112,599                    | 101,400                                      | 97,455                   |
| <b>Valencia Oranges</b>                  |                            |                            |                            |  |                          |
| Florida .....                            | 70,200                     | 72,500                     | 66,500                     | 65,000                                       | 61,000                   |
| California .....                         | 14,500                     | 12,500                     | 12,500                     | 12,500                                       | 11,500                   |
| Texas .....                              | 249                        | 311                        | 289                        | 364  | 370                      |
| United States.....                       | 84,949                     | 85,311                     | 79,289                     | 77,864                                       | 72,870                   |
| <b>All Oranges</b>                       |                            |                            |                            |  |                          |
| Florida .....                            | 140,500                    | 146,700                    | 133,600                    | 121,000                                      | 115,000                  |
| California .....                         | 62,500                     | 58,500                     | 56,500                     | 56,500                                       | 53,500                   |
| Texas .....                              | 1,949                      | 1,419                      | 1,788                      | 1,764  | 1,825                    |
| United States.....                       | 204,949                    | 206,119                    | 191,888                    | 179,264                                      | 170,325                  |
| <b>Grapefruit</b>                        |                            |                            |                            |  |                          |
| Florida-All .....                        | 19,750                     | 18,850                     | 18,350                     | 16,700                                       | 16,500                   |
| White.....                               | 5,850                      | 5,350                      | 5,250                      | 4,700  | 4,500                    |
| Colored.....                             | 13,900                     | 13,500                     | 13,100                     | 12,000                                       | 12,000                   |
| California .....                         | 4,310                      | 4,000                      | 4,000                      | 4,000  | 4,000                    |
| Texas .....                              | 6,300                      | 4,800                      | 6,100                      | 5,190  | 5,370                    |
| United States.....                       | 30,360                     | 27,650                     | 28,450                     | 25,890                                       | 25,870                   |
| <b>Lemons</b>                            |                            |                            |                            |  |                          |
| California.....                          | 20,500                     | 20,500                     | 21,000                     | 21,500                                       | 20,000                   |
| Arizona.....                             | 2,500                      | 750                        | 1,800                      | 1,785  | 1,785                    |
| United States.....                       | 23,000                     | 21,250                     | 22,800                     | 23,285                                       | 21,785                   |
| <b>Tangelos</b>                          |                            |                            |                            |  |                          |
| Florida .....                            | 1,150                      | 1,150                      | 1,000                      | 1,000  | 1,000                    |
| <b>Tangerines</b>                        |                            |                            |                            |  |                          |
| Florida-All .....                        | 4,650                      | 4,290                      | 3,280                      | 3,600  | 3,400                    |
| Early <sup>3</sup> .....                 | 2,600                      | 2,330                      | 1,910                      | 2,000  | 1,800                    |
| Honey .....                              | 2,050                      | 1,960                      | 1,370                      | 1,600  | 1,600                    |
| California <sup>4</sup> .....            | 10,600                     | 10,800                     | 13,000                     | 13,500                                       | 13,200                   |
| Arizona <sup>4</sup> .....               | 300                        | 200                        | 200                        | 200  | 200                      |
| United States.....                       | 15,500                     | 15,290                     | 16,480                     | 17,300                                       | 16,800                   |

<sup>1</sup> Net pounds per box: oranges in California-80, Florida-90, Texas-85; grapefruit in California-80, Florida-85, Texas-80; lemons-80, tangelos-90; tangerines and mandarins in Arizona and California-80, Florida-95.

<sup>2</sup> Navel and miscellaneous varieties in California. Early (including Navel) and midseason varieties in Florida and Texas. Includes small quantities of tangerines in Texas and Temples in Florida.

<sup>3</sup> Fallglo and Sunburst varieties.

<sup>4</sup> Includes tangelos and tangors.

## All Oranges 115.0 Million Boxes

The 2013-2014 Florida all orange forecast released today by the USDA Agricultural Statistics Board is 115.0 million boxes, down 5 percent from December and 14 percent less than last season's production. The total comprises 54.0 million boxes of the non-Valencia oranges (early, midseason, Navel, and Temple varieties) and 61.0 million boxes of Valencia oranges.

The hurricane seasons of 2004-2005 and 2005-2006 have been excluded from the usual 10-year regression analysis and from comparisons of the current season to previous seasons. For those previous 8 seasons, the January forecast has deviated from final production by an average of 3 percent with 5 seasons above and 3 below, with differences ranging from 1 percent below to 9 percent above. All references to "average" or "minimum" refer to the previous 8 non-hurricane seasons unless otherwise noted.

## Non-Valencia Oranges 54.0 Million Boxes

The forecast of non-Valencia production is lowered by 2.0 million boxes to 54.0 million boxes. Final fruit size is below the minimum, requiring 286 pieces of fruit to fill a 90-pound box; final droppage at 23 percent is the highest in a series dating back to the 1960-1961 season. The Navel forecast, included in the non-Valencia forecast, is decreased by 200,000 boxes to 1.9 million boxes and now represents 4 percent of the non-Valencia total. Navel harvest has tapered off, with estimated weekly utilization dropping to 20,000 boxes at the end of December.

## Valencia Oranges 61.0 Million Boxes

The forecast of Valencia production is lowered by 4.0 million boxes to 61.0 million boxes. Current fruit size is below the minimum and is projected to be below the minimum at harvest. Current droppage is now above the maximum and is projected to be above the maximum at harvest.

## All Grapefruit 16.5 Million Boxes

The forecast of all grapefruit production is lowered by 200,000 boxes to 16.5 million boxes. This reduction is in the white grapefruit forecast, now at 4.5 million boxes; the colored grapefruit forecast remains at 12.0 million boxes. Current fruit size for both white and colored grapefruit is near the minimum, but is expected to be below the minimum at harvest. Current droppage for both white and colored grapefruit is above the maximum and is projected to be well above the maximum at harvest.

## All Tangerines 3.4 Million Boxes

The forecast of all tangerine production is lowered to 3.4 million boxes. The early tangerine forecast (Fallglo and Sunburst) is reduced 200,000 boxes to 1.8 million boxes. Early tangerine estimated utilization reached 1.65 million boxes as of January 1, 2014. Fallglo tangerine harvest is complete, while Sunburst harvest is expected to be complete this month. The forecast of the later maturing Honey variety continues at 1.6 million boxes. Projected Honey fruit size is slightly below the minimum while the droppage rate is slightly above average.

## Tangelos 1.0 Million Boxes

The forecast of tangelo production is unchanged at 1.0 million boxes. The Row Count survey conducted December 30-31, 2013 showed 35 percent of the rows were harvested. Components were final last month with size below the minimum and droppage above average.

## FCOJ Yield 1.61 Gallons per Box

The projection for frozen concentrated orange juice (FCOJ) remains 1.61 gallons per box of 42° Brix concentrate. First yield projections for the components are 1.51 gallons per box for the early-midseason portion, and 1.71 for the late (Valencia) portion. Last season's final yield for all oranges was 1.587680 gallons per box, as reported by the Florida Department of Citrus.

## Forecast Components, by Variety — Florida: January 2014

[Survey data is considered final in December for Navels, January for early-midseason oranges, February for grapefruit, and April for Valencias]

| Type                 | Bearing trees<br>(1,000 trees) | Fruit per tree<br>(number) | Droppage<br>(percent) | Fruit per box<br>(number) |
|----------------------|--------------------------------|----------------------------|-----------------------|---------------------------|
| <b>ORANGES</b>       |                                |                            |                       |                           |
| Early-midseason..... | 23,660                         | 918                        | 23                    | 286                       |
| Navel.....           | 985                            | 429                        | 19                    | 144                       |
| Valencia.....        | 32,149                         | 614                        | 25                    | 243                       |
| <b>GRAPEFRUIT</b>    |                                |                            |                       |                           |
| White.....           | 1,282                          | 555                        | 25                    | 122                       |
| Colored.....         | 3,617                          | 500                        | 25                    | 128                       |

## Maturity

Regular bloom fruit samples were collected on December 30-31, 2013 from groves on established routes in Florida's five major citrus producing areas and tested January 2-3, 2014. All comparisons are made to January 1, 2013. Solids (Brix) levels are higher for early and midseason oranges while acid levels are the same resulting in higher ratios. Late oranges have lower acid and solids, but a higher ratio. Unfinished juice per box is higher only on early oranges; solids per box is higher on early and midseason oranges.

Indian River early and midseason oranges have higher acid levels compared to other areas this month, resulting in lower ratios. Late oranges in the Indian River have lower acid and a higher ratio. Solids per box and unfinished juice per box are higher on all orange varieties in fruit from the Indian River District.

### Citrus Unadjusted Maturity Tests — Florida: 2012-2013 and 2013-2014

[Averages of regular bloom fruit from sample groves. Juice and solids per box are unadjusted and not comparable to juice processing plant test results. All samples were run through an FMC 091 machine using mechanical pressure only. This machine utilizes a .040 short strainer and standard 5/8 inch orifice tube. The beam settings are also identical to past tests and no restrictors are used]

| Fruit type<br>(number of groves)<br>test date | Acid      |           | Solids<br>(Brix) |           | Ratio     |           | Unfinished juice<br>per box |           | Solids<br>per box |           |
|---|-----------|-----------|------------------|-----------|-----------|-----------|-----------------------------|-----------|-------------------|-----------|
|   | 2012-2013 | 2013-2014 | 2012-2013        | 2013-2014 | 2012-2013 | 2013-2014 | 2012-2013                   | 2013-2014 | 2012-2013         | 2013-2014 |
|   | (percent) | (percent) | (percent)        | (percent) |           |           | (pounds)                    | (pounds)  | (pounds)          | (pounds)  |
| <b>ORANGES</b>                                |           |           |                  |           |           |           |                             |           |                   |           |
| Early (71- 74)                                |           |           |                  |           |           |           |                             |           |                   |           |
| Sep 1.....                                    | 1.26      | 1.48      | 9.34             | 9.27      | 7.51      | 6.40      | 46.37                       | 42.75     | 4.34              | 3.96      |
| Oct 1.....                                    | 0.98      | 1.08      | 9.48             | 9.51      | 9.86      | 8.93      | 47.72                       | 46.80     | 4.52              | 4.45      |
| Nov 1.....                                    | 0.79      | 0.91      | 10.27            | 10.09     | 13.27     | 11.36     | 51.87                       | 44.55     | 5.33              | 4.49      |
| Dec 1.....                                    | 0.75      | 0.76      | 10.82            | 10.81     | 14.71     | 14.50     | 51.65                       | 51.35     | 5.59              | 5.56      |
| Jan 1.....                                    | 0.71      | 0.71      | 11.11            | 11.59     | 15.90     | 16.58     | 50.93                       | 50.96     | 5.66              | 5.90      |
| Midseason (45-38)                             |           |           |                  |           |           |           |                             |           |                   |           |
| Sep 1.....                                    | 1.40      | 1.68      | 9.31             | 9.17      | 6.77      | 5.57      | 46.11                       | 43.14     | 4.29              | 3.96      |
| Oct 1.....                                    | 1.19      | 1.29      | 9.55             | 9.51      | 8.15      | 7.63      | 48.62                       | 47.81     | 4.65              | 4.55      |
| Nov 1.....                                    | 0.92      | 1.11      | 10.41            | 10.33     | 11.65     | 9.51      | 51.89                       | 45.42     | 5.40              | 4.70      |
| Dec 1.....                                    | 0.94      | 0.94      | 11.24            | 11.50     | 12.26     | 12.42     | 52.11                       | 52.73     | 5.85              | 6.06      |
| Jan 1.....                                    | 0.87      | 0.87      | 11.71            | 12.02     | 13.65     | 14.21     | 52.06                       | 51.56     | 6.10              | 6.20      |
| Late (150-148)                                |           |           |                  |           |           |           |                             |           |                   |           |
| Sep 1.....                                    | (NA)      | (NA)      | (NA)             | (NA)      | (NA)      | (NA)      | (NA)                        | (NA)      | (NA)              | (NA)      |
| Oct 1.....                                    | 2.16      | 2.18      | 8.81             | 8.66      | 4.17      | 4.01      | 45.00                       | 46.33     | 3.97              | 4.01      |
| Nov 1.....                                    | 1.69      | 1.84      | 9.29             | 9.26      | 5.60      | 5.10      | 51.32                       | 50.85     | 4.77              | 4.71      |
| Dec 1.....                                    | 1.51      | 1.51      | 10.10            | 10.06     | 6.84      | 6.77      | 53.56                       | 54.28     | 5.41              | 5.46      |
| Jan 1.....                                    | 1.34      | 1.27      | 10.90            | 10.89     | 8.26      | 8.68      | 54.56                       | 54.17     | 5.95              | 5.90      |

(NA) Not available.

### Citrus Maturity Test Averages, by Areas — Florida: January 1, 2012-2013 and 2013-2014

| Fruit type<br>(number of groves) | Acid      |           | Solids<br>(Brix) |           | Ratio     |           | Unfinished juice<br>per box |           | Solids<br>per box |           |
|----------------------------------|-----------|-----------|------------------|-----------|-----------|-----------|-----------------------------|-----------|-------------------|-----------|
|                                  | 2012-2013 | 2013-2014 | 2012-2013        | 2013-2014 | 2012-2013 | 2013-2014 | 2012-2013                   | 2013-2014 | 2012-2013         | 2013-2014 |
|                                  | (percent) | (percent) | (percent)        | (percent) |           |           | (pounds)                    | (pounds)  | (pounds)          | (pounds)  |
| <b>ORANGES</b>                   |           |           |                  |           |           |           |                             |           |                   |           |
| Early                            |           |           |                  |           |           |           |                             |           |                   |           |
| Indian River (5-5).....          | 0.68      | 0.72      | 10.92            | 11.57     | 16.41     | 16.26     | 53.86                       | 51.65     | 5.88              | 5.98      |
| Other Areas (66-69).....         | 0.71      | 0.71      | 11.13            | 11.59     | 15.86     | 16.60     | 50.70                       | 50.91     | 5.64              | 5.90      |
| Midseason                        |           |           |                  |           |           |           |                             |           |                   |           |
| Indian River (11-10).....        | 0.94      | 0.97      | 12.14            | 12.61     | 13.04     | 13.25     | 50.96                       | 51.84     | 6.18              | 6.52      |
| Other Areas (34-28).....         | 0.85      | 0.84      | 11.57            | 11.81     | 13.85     | 14.55     | 52.42                       | 51.47     | 6.07              | 6.08      |
| Late                             |           |           |                  |           |           |           |                             |           |                   |           |
| Indian River (27-29).....        | 1.41      | 1.23      | 11.08            | 10.97     | 7.90      | 9.03      | 54.06                       | 54.61     | 6.00              | 5.98      |
| Other Areas (123-119).....       | 1.32      | 1.28      | 10.86            | 10.88     | 8.34      | 8.59      | 54.67                       | 54.06     | 5.94              | 5.88      |

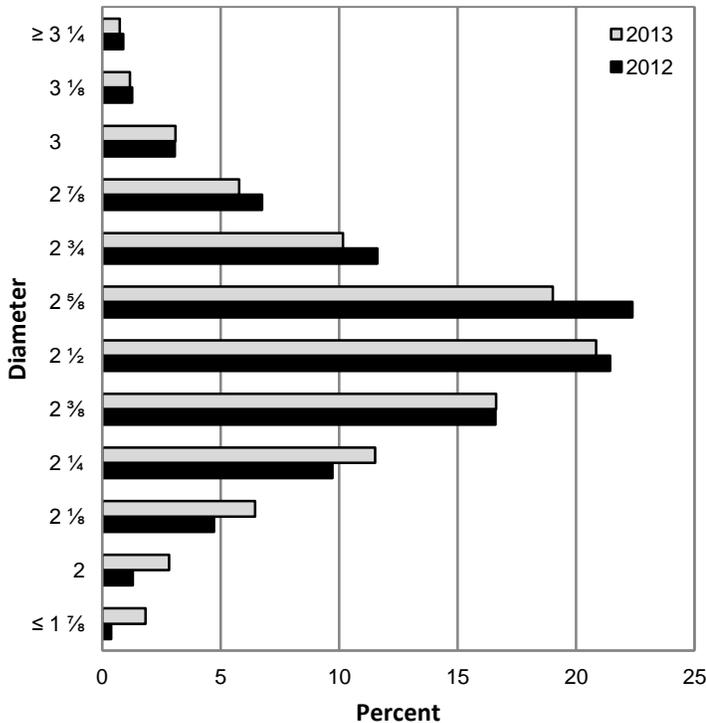
### Citrus Size Frequency Measurement Distributions, by Type — Florida: December Survey

| Type and number of fruit per 4/5 – bushel containers | 2011      | 2012      | 2013      | Type and number of fruit per 4/5 – bushel containers | 2011      | 2012      | 2013      |
|--|-----------|-----------|-----------|--|-----------|-----------|-----------|
|  | (percent) | (percent) | (percent) |  | (percent) | (percent) | (percent) |
| <b>NON-VALENCIA ORANGES <sup>1</sup></b>             |           |           |           | <b>WHITE GRAPEFRUIT <sup>2</sup></b>                 |           |           |           |
| 64 or less .....                                     | 4.4       | 1.3       | 1.2       | 32 or less .....                                     | 11.5      | 4.5       | 4.6       |
| 80 .....   | 17.4      | 6.8       | 6.2       | 36 .....   | 18.5      | 9.3       | 8.1       |
| 100 .....  | 37.7      | 24.6      | 21.5      | 40 .....   | 18.8      | 8.2       | 10.3      |
| 125 .....  | 28.8      | 34.7      | 31.9      | 48 .....   | 15.6      | 15.0      | 13.3      |
| 163 or more.....                                     | 11.7      | 32.6      | 39.2      | 56 .....   | 11.3      | 11.9      | 12.7      |
|  |           |           |           | 63 or more .....                                     | 24.3      | 51.1      | 51.0      |
| <b>VALENCIA ORANGES</b>                              |           |           |           | <b>COLORED GRAPEFRUIT</b>                            |           |           |           |
| 64 or less .....                                     | 5.5       | 2.5       | 1.6       | 32 or less .....                                     | 8.9       | 1.9       | 2.0       |
| 80 .....   | 24.7      | 11.7      | 9.1       | 36 .....   | 13.5      | 7.1       | 5.6       |
| 100 .....  | 38.7      | 32.3      | 27.2      | 40 .....   | 15.7      | 10.8      | 9.3       |
| 125 .....  | 23.2      | 31.3      | 32.4      | 48 .....   | 17.4      | 16.3      | 17.4      |
| 163 or more .....                                    | 7.9       | 22.2      | 29.7      | 56 .....   | 13.6      | 13.1      | 12.7      |
|  |           |           |           | 63 or more .....                                     | 30.9      | 50.8      | 53.0      |
| <b>HONEY TANGERINES</b>                              |           |           |           |  |           |           |           |
| 80 or less .....                                     | 23.8      | 11.4      | 8.3       |  |           |           |           |
| 100 .....  | 27.5      | 18.8      | 18.5      |  |           |           |           |
| 120 .....  | 22.4      | 21.6      | 24.9      |  |           |           |           |
| 176 .....  | 11.1      | 17.1      | 18.1      |  |           |           |           |
| 210 or more .....                                    | 15.2      | 31.1      | 30.2      |  |           |           |           |

<sup>1</sup> Excludes Navel and Temple varieties.

<sup>2</sup> Excludes seedy.

**Fruit Size Frequency Measurements, Non-Valencia Oranges <sup>1</sup>, by Diameter - Florida: December**



<sup>1</sup> Excludes Navel and Temple varieties.

**Fruit Size Frequency Measurements, Colored Grapefruit, by Diameter - Florida: December**

