



# CITRUS JANUARY FORECAST

## MATURITY TEST RESULTS AND FRUIT SIZE

Cooperating with the Florida Department of Agriculture and Consumer Services  
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January 12, 2015

**Florida All Orange Production Down 5 Percent**  
**Florida Non-Valencia Orange Production Down 8 Percent**  
**Florida Valencia Orange Production Down 2 Percent**  
**Florida All Grapefruit Production Unchanged**  
**Florida All Tangerine Unchanged**  
**Florida Tangelo Production Unchanged**  
**FCOJ Yield 1.59 Gallons per Box (42° Brix)**

| 2014-2015 SEASON FORECAST DATES |               |
|---------------------------------|---------------|
| February 10, 2015               | May 12, 2015  |
| March 10, 2015                  | June 10, 2015 |
| April 9, 2015                   | July 10, 2015 |

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

| Crop and State                           | Production <sup>1</sup>    |                            |                            | 2014-2015 Forecasted Production <sup>1</sup> |                          |
|------------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------------------------|--------------------------|
|                                          | 2011-2012<br>(1,000 boxes) | 2012-2013<br>(1,000 boxes) | 2013-2014<br>(1,000 boxes) | December<br>(1,000 boxes)                    | January<br>(1,000 boxes) |
| <b>Non-Valencia Oranges <sup>2</sup></b> |                            |                            |                            |                                              |                          |
| <b>Florida</b> .....                     | <b>74,200</b>              | <b>67,100</b>              | <b>53,300</b>              | <b>52,000</b>                                | <b>48,000</b>            |
| California .....                         | 45,500                     | 42,500                     | 39,000                     | 40,500                                       | 40,000                   |
| Texas .....                              | 1,108                      | 1,499                      | 1,400                      | 1,627                                        | 1,670                    |
| United States.....                       | 120,808                    | 111,099                    | 93,700                     | 94,127                                       | 89,670                   |
| <b>Valencia Oranges</b>                  |                            |                            |                            |                                              |                          |
| <b>Florida</b> .....                     | <b>72,500</b>              | <b>66,500</b>              | <b>51,300</b>              | <b>56,000</b>                                | <b>55,000</b>            |
| California .....                         | 12,500                     | 12,000                     | 11,000                     | 10,000                                       | 10,000                   |
| Texas .....                              | 311                        | 289                        | 376                        | 345                                          | 345                      |
| United States.....                       | 85,311                     | 78,789                     | 62,676                     | 66,345                                       | 65,345                   |
| <b>All Oranges</b>                       |                            |                            |                            |                                              |                          |
| <b>Florida</b> .....                     | <b>146,700</b>             | <b>133,600</b>             | <b>104,600</b>             | <b>108,000</b>                               | <b>103,000</b>           |
| California .....                         | 58,000                     | 54,500                     | 50,000                     | 50,500                                       | 50,000                   |
| Texas .....                              | 1,419                      | 1,788                      | 1,776                      | 1,972                                        | 2,015                    |
| United States.....                       | 206,119                    | 189,888                    | 156,376                    | 160,472                                      | 155,015                  |
| <b>Grapefruit</b>                        |                            |                            |                            |                                              |                          |
| <b>Florida-All</b> .....                 | <b>18,850</b>              | <b>18,350</b>              | <b>15,650</b>              | <b>15,000</b>                                | <b>15,000</b>            |
| <b>White</b> .....                       | <b>5,350</b>               | <b>5,250</b>               | <b>4,150</b>               | <b>4,000</b>                                 | <b>4,000</b>             |
| <b>Colored</b> .....                     | <b>13,500</b>              | <b>13,100</b>              | <b>11,500</b>              | <b>11,000</b>                                | <b>11,000</b>            |
| California .....                         | 4,000                      | 4,500                      | 4,000                      | 4,000                                        | 4,000                    |
| Texas .....                              | 4,800                      | 6,100                      | 5,700                      | 5,750                                        | 6,000                    |
| United States.....                       | 27,650                     | 28,950                     | 25,350                     | 24,750                                       | 25,000                   |
| <b>Lemons</b>                            |                            |                            |                            |                                              |                          |
| California.....                          | 20,500                     | 21,000                     | 19,000                     | 19,000                                       | 20,000                   |
| Arizona.....                             | 750                        | 1,800                      | 1,800                      | 2,000                                        | 2,200                    |
| United States.....                       | 21,250                     | 22,800                     | 20,800                     | 21,000                                       | 22,200                   |
| <b>Tangelos</b>                          |                            |                            |                            |                                              |                          |
| <b>Florida</b> .....                     | <b>1,150</b>               | <b>1,000</b>               | <b>880</b>                 | <b>800</b>                                   | <b>800</b>               |
| <b>Tangerines</b>                        |                            |                            |                            |                                              |                          |
| <b>Florida-All</b> .....                 | <b>4,290</b>               | <b>3,280</b>               | <b>2,900</b>               | <b>2,500</b>                                 | <b>2,500</b>             |
| <b>Early</b> <sup>3</sup> .....          | <b>2,330</b>               | <b>1,910</b>               | <b>1,750</b>               | <b>1,400</b>                                 | <b>1,400</b>             |
| <b>Honey</b> .....                       | <b>1,960</b>               | <b>1,370</b>               | <b>1,150</b>               | <b>1,100</b>                                 | <b>1,100</b>             |
| California <sup>4</sup> .....            | 10,800                     | 13,000                     | 14,500                     | 16,000                                       | 15,500                   |
| Arizona <sup>4</sup> .....               | 200                        | 200                        | 200                        | 220                                          | 220                      |
| United States.....                       | 15,290                     | 16,480                     | 17,600                     | 18,720                                       | 18,220                   |

<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 mandarins, tangelos, and tangors.

## All Oranges 103.0 Million Boxes

The 2014-2015 Florida all orange forecast released today by the USDA Agricultural Statistics Board is 103.0 million boxes, down 5 percent from December and 2 percent less than last season's production. The total comprises 48.0 million boxes of the non-Valencia oranges (early, midseason, Navel, and Temple varieties) and 55.0 million boxes of Valencia oranges.

Regression data used are from the 2006-2007 through 2013-2014 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, and with differences ranging from 1 percent below to 10 percent above. All references to "average", "minimum", and "maximum" refer to the previous 8 seasons unless noted.

## Non-Valencia Oranges 48.0 Million Boxes

The forecast of non-Valencia production is lowered by 4.0 million boxes to 48.0 million boxes. The Non-Valencia harvest has reached almost 4 million boxes per week. Estimated utilization to January 1, 2015, with an allocation for non-certified fruit is 15.8 million boxes. At 303 pieces of fruit to fill a 90-pound box, final fruit size is the lowest in a series dating back to the 1960-1961 season; final droppage at 22 percent is close to the maximum record set last season. The Navel forecast, included in the non-Valencia forecast, is unchanged at 1.5 million boxes and now represents 3 percent of the non-Valencia total. The Row Count survey conducted December 30-31, 2014 showed 34 percent of the non-Valencia (excluding navels) rows harvested, and 76 percent of the Navel rows harvested.

## Valencia Oranges 55.0 Million Boxes

The forecast of Valencia production is lowered by 1.0 million boxes to 55.0 million boxes. Current fruit size is at the minimum and is projected to be below the minimum at harvest. Current droppage is above average and is projected to be well above average at harvest.

## All Grapefruit 15.0 Million Boxes

The forecast of all grapefruit production remains at 15.0 million boxes. The white grapefruit forecast is unchanged at 4.0 million boxes. The colored grapefruit forecast is unchanged at 11.0 million boxes. Current fruit size for both white and colored grapefruit is less than average, and is projected to be close to the minimum at harvest. Current droppage for both white and colored grapefruit is close to the maximum and is projected to be close to the maximum at harvest.

## All Tangerines 2.5 Million Boxes

The forecast of all tangerine production is continued at 2.5 million boxes. The early tangerine forecast (Fallglo and Sunburst) is unchanged at 1.4 million boxes, and the later maturing Honey forecast remains at 1.1 million boxes. The Fallglo tangerine harvest is over while the Sunburst harvest is nearly complete. The harvesting of the late maturing Honey tangerine is getting underway. Projected Honey fruit size is slightly below the minimum while the projected droppage rate is slightly above the maximum.

## Tangelos 800 Thousand Boxes

The forecast of tangelo production is unchanged at 800,000 boxes. The Row Count survey conducted December 30-31, 2014, showed 36 percent of the rows were harvested. Components were final last month with size below average and droppage above the maximum.

## FCOJ Yield 1.59 Gallons per Box

The projection for frozen concentrated orange juice (FCOJ) is lowered to 1.59 gallons per box of 42° Brix concentrate. First yield projections for the components are 1.45 gallons per box for the early-midseason portion, and 1.72 for the late (Valencia) portion. Last season's final yields for all oranges, as reported by the Florida Department of Citrus were: 1.569080 gallons per box for all oranges, 1.521318 gallons per box for early-midseason oranges, and 1.642463 gallons per box for late (Valencia) oranges.

## Forecast Components, by Variety — Florida: January 2015

[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..... | 22,707                         | 890                        | 22                    | 303                       |
| Navel.....           | 970                            | 295                        | 21                    | 139                       |
| Valencia .....       | 31,190                         | 624                        | 28                    | 241                       |
| <b>GRAPEFRUIT</b>    |                                |                            |                       |                           |
| White.....           | 1,199                          | 477                        | 26                    | 117                       |
| Colored .....        | 3,374                          | 445                        | 23                    | 119                       |

## Maturity

Regular bloom fruit samples were collected on December 30-31, 2014, from groves on established routes in Florida's five major citrus producing areas and tested January 5-6, 2015. All comparisons are made to January 1, 2014. Acid levels are higher for early oranges but lower for midseason and late oranges. Ratios are lower for early and midseason oranges but higher for late oranges. Unfinished juice per box is lower for early oranges but higher for midseason and late oranges. Solids per box is lower for early and midseason oranges, but higher for late oranges.

Indian River early and midseason oranges have lower acid levels compared to other areas this month, resulting in higher ratios. Late oranges in the Indian River have higher acid levels and a lower ratio. Unfinished juice per box is lower for early and late oranges but higher for midseason oranges. Solids per box is higher for all orange types in the Indian River District when compared to other areas.

### Citrus Unadjusted Maturity Tests — Florida: 2013-2014 and 2014-2015

[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 |           |
|-----------------------------------------------|-----------|-----------|------------------|-----------|-----------|-----------|-----------------------------|-----------|-------------------|-----------|
|                                               | 2013-2014 | 2014-2015 | 2013-2014        | 2014-2015 | 2013-2014 | 2014-2015 | 2013-2014                   | 2014-2015 | 2013-2014         | 2014-2015 |
|                                               | (percent) | (percent) | (percent)        | (percent) |           |           | (pounds)                    | (pounds)  | (pounds)          | (pounds)  |
| <b>ORANGES</b>                                |           |           |                  |           |           |           |                             |           |                   |           |
| Early (74-81)                                 |           |           |                  |           |           |           |                             |           |                   |           |
| Sep 1.....                                    | 1.48      | 1.41      | 9.27             | 9.10      | 6.40      | 6.56      | 42.75                       | 43.92     | 3.96              | 3.99      |
| Oct 1.....                                    | (NA)      | 1.03      | (NA)             | 9.03      | (NA)      | 8.95      | (NA)                        | 49.42     | (NA)              | 4.46      |
| Nov 1.....                                    | 0.91      | 0.89      | 10.09            | 9.69      | 11.36     | 11.11     | 44.55                       | 51.92     | 4.49              | 5.03      |
| Dec 1.....                                    | 0.76      | 0.81      | 10.81            | 10.33     | 14.50     | 12.97     | 51.35                       | 51.67     | 5.56              | 5.34      |
| Jan 1.....                                    | 0.71      | 0.74      | 11.59            | 10.79     | 16.58     | 14.77     | 50.96                       | 50.22     | 5.90              | 5.42      |
| Midseason (38-42)                             |           |           |                  |           |           |           |                             |           |                   |           |
| Sep 1.....                                    | 1.68      | 1.54      | 9.17             | 9.04      | 5.57      | 6.00      | 43.14                       | 43.66     | 3.96              | 3.95      |
| Oct 1.....                                    | (NA)      | 1.14      | (NA)             | 9.03      | (NA)      | 8.04      | (NA)                        | 49.39     | (NA)              | 4.46      |
| Nov 1.....                                    | 1.11      | 1.01      | 10.33            | 9.82      | 9.51      | 9.90      | 45.42                       | 52.14     | 4.70              | 5.12      |
| Dec 1.....                                    | 0.94      | 0.93      | 11.50            | 10.76     | 12.42     | 11.78     | 52.73                       | 52.71     | 6.06              | 5.66      |
| Jan 1.....                                    | 0.87      | 0.81      | 12.02            | 11.21     | 14.21     | 14.11     | 51.56                       | 51.62     | 6.20              | 5.79      |
| Late (148-150)                                |           |           |                  |           |           |           |                             |           |                   |           |
| Sep 1.....                                    | (NA)      | (NA)      | (NA)             | (NA)      | (NA)      | (NA)      | (NA)                        | (NA)      | (NA)              | (NA)      |
| Oct 1.....                                    | (NA)      | 2.08      | (NA)             | 8.69      | (NA)      | 4.23      | (NA)                        | 45.17     | (NA)              | 3.92      |
| Nov 1.....                                    | 1.84      | 1.76      | 9.26             | 9.10      | 5.10      | 5.22      | 50.85                       | 50.35     | 4.71              | 4.58      |
| Dec 1.....                                    | 1.51      | 1.48      | 10.06            | 9.70      | 6.77      | 6.62      | 54.28                       | 53.83     | 5.46              | 5.22      |
| Jan 1.....                                    | 1.27      | 1.26      | 10.89            | 10.85     | 8.68      | 8.72      | 54.17                       | 54.84     | 5.90              | 5.95      |

NA Not available.

### Citrus Maturity Test Averages, by Areas — Florida: January 1, 2013-2014 and 2014-2015

| Fruit type<br>(number of groves) | Acid      |           | Solids<br>(Brix) |           | Ratio     |           | Unfinished juice<br>per box |           | Solids<br>per box |           |
|----------------------------------|-----------|-----------|------------------|-----------|-----------|-----------|-----------------------------|-----------|-------------------|-----------|
|                                  | 2013-2014 | 2014-2015 | 2013-2014        | 2014-2015 | 2013-2014 | 2014-2015 | 2013-2014                   | 2014-2015 | 2013-2014         | 2014-2015 |
|                                  | (percent) | (percent) | (percent)        | (percent) |           |           | (pounds)                    | (pounds)  | (pounds)          | (pounds)  |
| <b>ORANGES</b>                   |           |           |                  |           |           |           |                             |           |                   |           |
| Early                            |           |           |                  |           |           |           |                             |           |                   |           |
| Indian River (5-8).....          | 0.72      | 0.72      | 11.57            | 11.39     | 16.26     | 16.15     | 51.65                       | 48.45     | 5.98              | 5.52      |
| Other Areas (69-73).....         | 0.71      | 0.74      | 11.59            | 10.73     | 16.60     | 14.62     | 50.91                       | 50.41     | 5.90              | 5.40      |
| Midseason                        |           |           |                  |           |           |           |                             |           |                   |           |
| Indian River (10-11).....        | 0.97      | 0.79      | 12.61            | 11.47     | 13.25     | 14.78     | 51.84                       | 52.01     | 6.52              | 5.96      |
| Other Areas (28-31).....         | 0.84      | 0.81      | 11.81            | 11.12     | 14.55     | 13.87     | 51.47                       | 51.47     | 6.08              | 5.73      |
| Late                             |           |           |                  |           |           |           |                             |           |                   |           |
| Indian River (29-29).....        | 1.23      | 1.30      | 10.97            | 11.14     | 9.03      | 8.68      | 54.61                       | 53.83     | 5.98              | 6.00      |
| Other Areas (119-121).....       | 1.28      | 1.25      | 10.88            | 10.78     | 8.59      | 8.73      | 54.06                       | 55.08     | 5.88              | 5.94      |

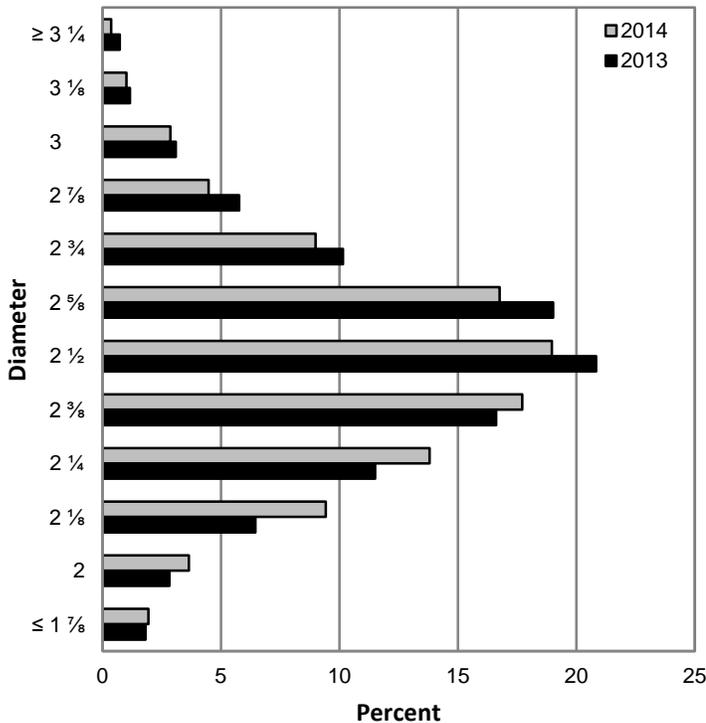
### Citrus Size Frequency Measurement Distributions, by Type — Florida: December Survey

| Type and number of fruit per 4/5 – bushel containers | 2012      | 2013      | 2014      | Type and number of fruit per 4/5 – bushel containers | 2012      | 2013      | 2014      |
|------------------------------------------------------|-----------|-----------|-----------|------------------------------------------------------|-----------|-----------|-----------|
|                                                      | (percent) | (percent) | (percent) |                                                      | (percent) | (percent) | (percent) |
| <b>NON-VALENCIA ORANGES <sup>1</sup></b>             |           |           |           | <b>WHITE GRAPEFRUIT <sup>2</sup></b>                 |           |           |           |
| 64 or less .....                                     | 1.3       | 1.2       | 0.8       | 32 or less .....                                     | 4.5       | 4.6       | 3.3       |
| 80 .....                                             | 6.8       | 6.2       | 5.5       | 36 .....                                             | 9.3       | 8.1       | 8.9       |
| 100 .....                                            | 24.6      | 21.5      | 17.9      | 40 .....                                             | 8.2       | 10.3      | 13.1      |
| 125 .....                                            | 34.7      | 31.9      | 29.3      | 48 .....                                             | 15.0      | 13.3      | 15.3      |
| 163 or more.....                                     | 32.6      | 39.2      | 46.5      | 56 .....                                             | 11.9      | 12.7      | 13.4      |
|                                                      |           |           |           | 63 or more .....                                     | 51.1      | 51.0      | 46.0      |
| <b>VALENCIA ORANGES</b>                              |           |           |           | <b>COLORED GRAPEFRUIT</b>                            |           |           |           |
| 64 or less .....                                     | 2.5       | 1.6       | 1.3       | 32 or less .....                                     | 1.9       | 2.0       | 3.2       |
| 80 .....                                             | 11.7      | 9.1       | 9.0       | 36 .....                                             | 7.1       | 5.6       | 8.2       |
| 100 .....                                            | 32.3      | 27.2      | 29.1      | 40 .....                                             | 10.8      | 9.3       | 12.5      |
| 125 .....                                            | 31.3      | 32.4      | 32.7      | 48 .....                                             | 16.3      | 17.4      | 16.6      |
| 163 or more .....                                    | 22.2      | 29.7      | 27.9      | 56 .....                                             | 13.1      | 12.7      | 12.4      |
|                                                      |           |           |           | 63 or more .....                                     | 50.8      | 53.0      | 47.1      |
| <b>HONEY TANGERINES</b>                              |           |           |           |                                                      |           |           |           |
| 80 or less .....                                     | 11.4      | 8.3       | 8.7       |                                                      |           |           |           |
| 100 .....                                            | 18.8      | 18.5      | 21.5      |                                                      |           |           |           |
| 120 .....                                            | 21.6      | 24.9      | 17.7      |                                                      |           |           |           |
| 176 .....                                            | 17.1      | 18.1      | 11.0      |                                                      |           |           |           |
| 210 or more .....                                    | 31.1      | 30.2      | 41.1      |                                                      |           |           |           |

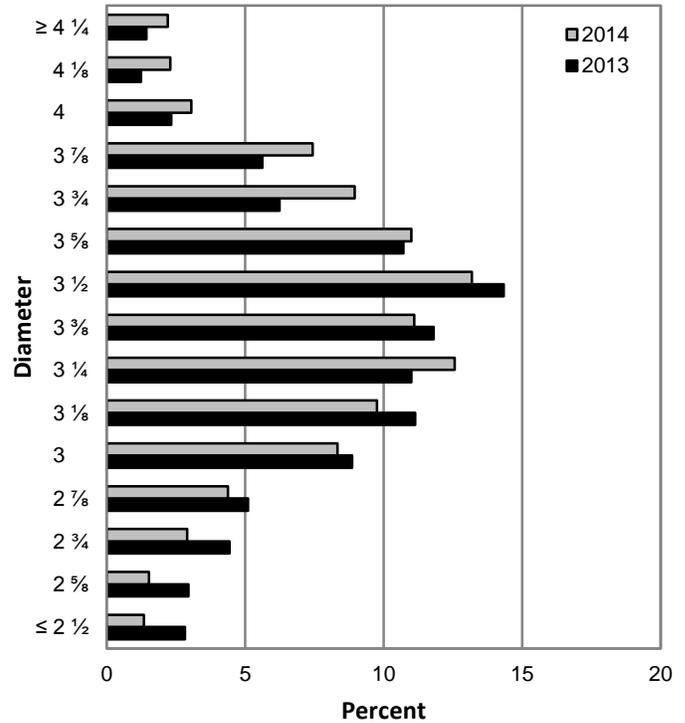
<sup>1</sup> Excludes Navel and Temple varieties.

<sup>2</sup> Excludes seedy.

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



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



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