# United States Department of Agriculture 

 National Agricultural Statistics Service

November 8, 2013
Florida All Orange Production Down 6 Percent From Last Season Florida Non-Valencia Orange Production Down 14 Percent Florida Valencia Orange Production Up 1 Percent Florida All Grapefruit Production Down 3 Percent Florida All Tangerine Production Up 14 Percent Florida Tangelo Production Unchanged

| Forecast DATES | - |
| :--- | ---: |
| December 10, 2013 |  |
| January 10, 2014 | April 9, 2014 SEASON |
| February 10, 2014 | May 9, 2014 |
| March 10, 2014 | June 11, 2014 |

## Citrus Production by Type and State - United States

| Crop and State | Production ${ }^{1}$ |  |  | Forecasted Production ${ }^{1}$$2013-2014$ |
| :---: | :---: | :---: | :---: | :---: |
|  | 2010-2011 | 2011-2012 | 2012-2013 |  |
|  | (1,000 boxes) | (1,000 boxes) | (1,000 boxes) | (1,000 boxes) |
| Non-Valencia Oranges ${ }^{2}$ |  |  |  |  |
| Florida | 70,300 | 74,200 | 67,100 | 58,000 |
| California. | 48,000 | 45,500 | 44,000 | 44,000 |
| Texas. | 1,700 | 1,108 | 1,499 | 1,400 |
| United States. | 120,000 | 120,808 | 112,599 | 103,400 |
| Valencia Oranges |  |  |  |  |
| Florida ........ | 70,200 | 72,500 | 66,500 | 67,000 |
| California. | 14,500 | 12,500 | 12,500 | 12,500 |
| Texas ..... | 249 | 311 | 289 | 364 |
| United States. | 84,949 | 85,311 | 79,289 | 79,864 |
| All Oranges |  |  |  |  |
| Florida .... | 140,500 | 146,700 | 133,600 | 125,000 |
| California. | 62,500 | 58,500 | 56,500 | 56,500 |
| Texas | 1,949 | 1,419 | 1,788 | 1,764 |
| United States................ | 204,949 | 206,119 | 191,888 | 183,264 |
| Grapefruit |  |  |  |  |
| Florida-All .......... | 19,750 | 18,850 | 18,350 | 17,800 |
| White........ | 5,850 | 5,350 | 5,250 | 4,800 |
| Colored..... | 13,900 | 13,500 | 13,100 | 13,000 |
| California....... | 4,310 | 4,000 | 4,000 | 4,000 |
| Texas ........ | 6,300 | 4,800 | 6,100 | 5,190 |
| United States...... | 30,360 | 27,650 | 28,450 | 26,990 |
| Lemons |  |  |  |  |
| California....... | 20,500 | 20,500 | 21,000 | 21,500 |
| Arizona. | 2,500 | 750 | 1,800 | 1,785 |
| United States. | 23,000 | 21,250 | 22,800 | 23,285 |
| Tangelos |  |  |  |  |
| Florida | 1,150 | 1,150 | 1,000 | 1,000 |
| Tangerines |  |  |  |  |
| Florida-All | 4,650 | 4,290 | 3,280 | 3,750 |
| Early ${ }^{3}$ | 2,600 | 2,330 | 1,910 | 2,050 |
| Honey | 2,050 | 1,960 | 1,370 | 1,700 |
| California ${ }^{4}$. | 10,600 | 10,800 | 13,000 | 13,500 |
| Arizona ${ }^{4}$ | 300 | 200 | 200 | 200 |
| United States. | 15,500 | 15,290 | 16,480 | 17,450 |

[^0]
## All Oranges 125.0 Million Boxes

The 2013-2014 Florida all orange forecast released today by the USDA Agricultural Statistics Board is 125.0 million boxes, a 6 percent decrease from last season's production. If realized, this would be the lowest production since the freeze-affected 1989-1990 season. The total is comprised of 58.0 million boxes of non-Valencia oranges (early, midseason, Navel, and Temple varieties) and 67.0 million boxes of Valencia oranges. The Navel orange forecast is 2.1 million boxes, 4 percent of the non-Valencia total.

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, average actual production is 157.5 million boxes. The initial forecast has deviated from final production by an average of 4 percent with 7 seasons above and 1 below, with differences ranging from 1 percent below to 15 percent above.

The estimated number of bearing trees for all oranges is 56.8 million, down 1 percent from the previous season. Trees planted in 2010 and earlier are considered bearing this season. Field work for the latest Commercial Citrus Inventory was completed in July 2013. Attrition rates were applied to the results to determine the number of bearing trees which are used to weight and expand objective count data in the forecast model.

The early months of 2013 brought little precipitation and average temperatures to the citrus growing region. Significant rainfall returned in late spring and slowly eliminated drought conditions by the first week in July. Seasonal temperatures together with above average precipitation continued throughout the summer months and kept the citrus groves drought-free through mid-October. Dry seasonal conditions returned during the final weeks of October as the harvest began.

The procedures used in this forecast are the same as used in past seasons. The methodology is described on page 5 of this report. All references to "average" refer to the average of the previous 8 non-hurricane seasons.

## Non-Valencia Oranges 58.0 Million Boxes

The non-Valencia forecast of 58.0 million boxes is 14 percent lower than last season's production. The estimated number of bearing trees (excluding Navels) is 23.7 million, down 1 percent from the previous season. The estimated fruit per tree for early-midseason oranges is 918 , a decrease of 11 percent from last season. Projected fruit size is below the minimum, requiring an estimated 284 pieces of fruit to fill a 90-pound box. Projected droppage is near the maximum at 18 percent.

The prorated forecast shows a decrease of 1.4 million boxes in the Southern area compared to last season. The Indian River area shows a decrease of 100 thousand boxes and all other areas show a combined decrease of 7.6 million boxes when compared to 2012-2013

The Navel forecast of 2.1 million boxes is 5 percent lower than last season's production. The estimated number of bearing trees is 985 thousand, down 2 percent from the previous season. The estimated fruit per tree is 429 , an increase of 4 percent from last season. Projected fruit size is near the minimum, requiring an estimated 142 pieces of fruit to fill a 90 -pound box. Projected droppage is above average at 19 percent.

## Valencia Oranges 67.0 Million Boxes

The Valencia forecast of 67.0 million boxes is 1 percent higher than last season's production. The estimated number of bearing trees is 32.1 million, down 1 percent from the previous season. The estimated fruit per tree is 614 , a decrease of 7 percent from last season. Projected fruit size is below the minimum, requiring an estimated 234 pieces of fruit to fill a 90 -pound box. Projected droppage is above average at 18 percent.

The prorated forecast shows a decrease of 1.6 million boxes in the Southern area compared to last season. The Indian River area shows an increase of 900 thousand boxes and all other areas show a combined increase of 1.2 million boxes when compared to 2012-2013

## FCOJ Yield 1.60 Gallons per Box

The projection for frozen concentrated orange juice (FCOJ) is 1.60 gallons per box of $42^{\circ}$ Brix concentrate. Last season's final yield for all oranges was 1.587680 gallons per box, as reported by the Florida Department of Citrus. Projections for the components will be published in January. Record yields are 1.597195 gallons per box for the early-midseason category in 2008-2009, and
1.790343 gallons per box for the late oranges (Valencias) in 2007-2008. The record yield for all oranges is 1.672737 gallons per box set in 2007-2008.

Forecast Components, by Variety - Florida: November 2013
[Survey data is considered final in December for Navels, January for early-midseason oranges, February for grapefruit, and April for Valencias]

| Type | Bearing trees | Fruit per tree | Droppage | Fruit per box |
| :---: | :---: | :---: | :---: | :---: |
|  | (1,000 trees) | (number) | (percent) | (number) |
| ORANGES |  |  |  |  |
| Early-midseason. | 23,660 | 918 | 18 | 284 |
| Navel... | 985 | 429 | 19 | 142 |
| Valencia ............. | 32,149 | 614 | 18 | 234 |
| GRAPEFRUIT |  |  |  |  |
| White.. | 1,282 | 555 | 20 | 122 |
| Colored | 3,617 | 500 | 20 | 122 |

Citrus Production and Prorated Forecast, by Production Area - 2012-2013 and 2013-2014
[Forecasts based on fruit populations. The possible differences between growing areas, concerning average fruit size, loss from droppage, and harvest patterns, can alter the prorated estimates]

| Production Area | Oranges |  |  |  | Grapefruit |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Non-Valencia |  | Valencia |  | White |  | Colored |  |
|  | 2012-2013 | 2013-2014 | 2012-2013 | 2013-2014 | 2012-2013 | 2013-2014 | 2012-2013 | 2013-2014 |
|  | (1,000 boxes) | (1,000 boxes) | (1,000 boxes) | (1,000 boxes) | (1,000 boxes) | (1,000 boxes) | (1,000 boxes) | (1,000 boxes) |
| Indian River. | 1,800 | 1,700 | 2,700 | 3,600 | 3,700 | 4,000 | 8,100 | 9,200 |
| Southern. | 16,700 | 15,300 | 24,400 | 22,800 | 500 | 250 | 2,300 | 1,700 |
| Other. | 48,600 | 41,000 | 39,400 | 40,600 | 1,050 | 550 | 2,700 | 2,100 |
| Florida Total ... | 67,100 | 58,000 | 66,500 | 67,000 | 5,250 | 4,800 | 13,100 | 13,000 |

Distribution of Estimated Fruit Population, by Type, Area, and Age Groups - Florida
[Distribution of fruit population in September as determined by multiplying average fruit per tree from the Limb Count Survey by bearing age trees]

| Areas and age groups | Oranges |  |  |  | Grapefruit |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Non-Valencia |  | Valencia |  | White |  | Colored |  |
|  | 2012-2013 | 2013-2014 | 2012-2013 | 2013-2014 | 2012-2013 | 2013-2014 | 2012-2013 | 2013-2014 |
|  | (percent) | (percent) | (percent) | (percent) | (percent) | (percent) | (percent) | (percent) |
| Indian River. | 3 | 3 | 5 | 5 | 77 | 83 | 70 | 71 |
| Northern... | 7 | 6 | 3 | 3 | (Z) | 1 | 4 | 2 |
| Central... | 30 | 31 | 35 | 35 | 13 | 9 | 10 | 10 |
| Western .. | 36 | 34 | 24 | 23 | 2 | 2 | 3 | 4 |
| Southern.. | 24 | 26 | 33 | 34 | 8 | 5 | 13 | 13 |
| 3-5 years.... | 3 | 3 | 2 | 2 | 1 | 1 | 3 | 3 |
| 6-8 years..... | 5 | 4 | 4 | 4 | 1 | 1 | 4 | 4 |
| 9-13 years.... | 13 | 12 | 14 | 11 | 4 | 4 | 6 | 6 |
| 14-23 years.. | 37 | 34 | 48 | 44 | 48 | 35 | 36 | 31 |
| 24 yrs \& over... | 42 | 47 | 32 | 39 | 46 | 59 | 51 | 56 |

$(Z)$ Less than half of the unit shown.

Expected Gift Fruit Shipments Under the 6-R
Program and Non-Certified Usage, by Type -
Florida: 2013-2014

| Type | 1,000 boxes |
| :---: | :---: |
| Non-Valencia Oranges | 1,000 |
| Valencia Oranges. | 500 |
| White Grapefruit | 200 |
| Colored Grapefruit. | 500 |
| Tangelos. | 100 |
| Tangerines. | 300 |



## Maturity

Regular bloom fruit samples were collected from groves on established routes in Florida's five major citrus producing areas and tested in the Florida Agricultural Statistics Service (FASS) laboratory October 30-November 1, 2013. The orange sample size is 323 and the grapefruit sample size is 97 . All comparisons are made to November 2012. Acid levels are higher on all fruit types, while solids (Brix) are lower on all orange varieties but higher on grapefruit. Ratios, unfinished juice and solids per box are lower for all fruit types.

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 (number of groves) test date | Acid |  | $\begin{aligned} & \hline \text { Solids } \\ & \text { (Brix) } \end{aligned}$ |  | Ratio |  | Unfinished juice per box |  | Solids 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) |
| ORANGES |  |  |  |  |  |  |  |  |  |  |
| Early (119-119) |  |  |  |  |  |  |  |  |  |  |
| Sep 1.. | 1.24 | 1.47 | 9.37 | 9.24 | 7.69 | 6.41 | 46.43 | 42.38 | 4.35 | 3.92 |
| Oct 1. | 0.98 | 1.06 | 9.49 | 9.47 | 9.88 | 9.06 | 47.47 | 47.42 | 4.51 | 4.49 |
| Nov 1. | 0.76 | 0.89 | 10.25 | 10.04 | 13.71 | 11.52 | 51.38 | 44.64 | 5.27 | 4.48 |
| Midseason (55-55) |  |  |  |  |  |  |  |  |  |  |
| Sep 1.. | 1.41 | 1.69 | 9.35 | 9.26 | 6.77 | 5.59 | 45.84 | 43.30 | 4.28 | 4.01 |
| Oct 1 | 1.19 | 1.31 | 9.57 | 9.56 | 8.24 | 7.54 | 48.79 | 48.37 | 4.67 | 4.63 |
| Nov 1. | 0.92 | 1.11 | 10.46 | 10.29 | 11.69 | 9.53 | 52.07 | 45.75 | 5.45 | 4.71 |
| Late (150-149) |  |  |  |  |  |  |  |  |  |  |
| 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 | 46.32 | 3.97 | 4.01 |
| Nov 1. | 1.69 | 1.84 | 9.29 | 9.26 | 5.60 | 5.11 | 51.32 | 50.85 | 4.77 | 4.71 |
| GRAPEFRUIT <br> White Seedless (47-49) |  |  |  |  |  |  |  |  |  |  |
| Sep 1.. | 1.53 | 1.78 | 9.92 | 10.08 | 6.50 | 5.70 | 35.02 | 31.46 | 3.47 | 3.17 |
| Oct 1. | 1.44 | 1.55 | 9.83 | 9.87 | 6.83 | 6.39 | 36.32 | 35.65 | 3.57 | 3.51 |
| Nov 1... | 1.33 | 1.54 | 9.89 | 10.21 | 7.48 | 6.68 | 42.68 | 39.49 | 4.22 | 4.03 |
| Colored Seedless (49-48) |  |  |  |  |  |  |  |  |  |  |
| Sep 1... | 1.52 | 1.70 | 10.16 | 10.00 | 6.70 | 5.91 | 35.45 | 33.13 | 3.60 | 3.31 |
| Oct 1. | 1.41 | 1.48 | 10.03 | 9.84 | 7.12 | 6.71 | 37.62 | 36.51 | 3.77 | 3.59 |
| Nov 1......................... | 1.34 | 1.43 | 9.99 | 10.17 | 7.52 | 7.16 | 41.84 | 40.56 | 4.18 | 4.12 |

(NA) Not available.
Citrus Maturity Test Averages, by Areas — Florida: November 1, 2012-2013 and 2013-2014

| Fruit type (number of groves) test date | Acid |  | $\begin{aligned} & \hline \text { Solids } \\ & \text { (Brix) } \\ & \hline \end{aligned}$ |  | Ratio |  | Unfinished juice per box |  | Solids 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) |
| ORANGES |  |  |  |  |  |  |  |  |  |  |
| Early |  |  |  |  |  |  |  |  |  |  |
| Indian River (9-8). | 0.73 | 1.00 | 10.09 | 10.14 | 13.99 | 10.40 | 52.80 | 43.49 | 5.35 | 4.41 |
| Other Areas (110-111)... | 0.76 | 0.88 | 10.26 | 10.03 | 13.69 | 11.60 | 51.27 | 44.72 | 5.26 | 4.48 |
| Midseason |  |  |  |  |  |  |  |  |  |  |
| Indian River (11-11). | 0.93 | 1.16 | 10.55 | 10.33 | 11.51 | 9.24 | 49.90 | 45.02 | 5.27 | 4.64 |
| Other Areas (44-44)....... | 0.91 | 1.09 | 10.44 | 10.28 | 11.73 | 9.60 | 52.61 | 45.93 | 5.49 | 4.73 |
| Late |  |  |  |  |  |  |  |  |  |  |
| Indian River (27-29).... | 1.78 | 1.88 | 9.36 | 9.48 | 5.30 | 5.14 | 51.48 | 50.19 | 4.81 | 4.76 |
| Other Areas (123-120)... | 1.67 | 1.83 | 9.27 | 9.20 | 5.67 | 5.10 | 51.28 | 51.01 | 4.76 | 4.69 |
| GRAPEFRUIT <br> White Seedless |  |  |  |  |  |  |  |  |  |  |
| Indian River (38-38)....... | 1.34 | 1.58 | 10.04 | 10.42 | 7.50 | 6.65 | 42.29 | 39.27 | 4.25 | 4.09 |
| Other Areas (9-11)......... | 1.26 | 1.41 | 9.28 | 9.48 | 7.39 | 6.78 | 44.32 | 40.24 | 4.11 | 3.81 |
| Colored Seedless |  |  |  |  |  |  |  |  |  |  |
| Indian River (40-39)....... | 1.37 | 1.44 | 10.03 | 10.26 | 7.39 | 7.16 | 41.47 | 40.94 | 4.15 | 4.20 |
| Other Areas (9-9) .......... | 1.21 | 1.38 | 9.83 | 9.78 | 8.13 | 7.15 | 43.45 | 38.88 | 4.27 | 3.80 |

## All Grapefruit 17.8 Million Boxes

The forecast of grapefruit production is 17.8 million boxes, 3 percent lower than last season's production. The total is comprised of 4.8 million boxes of white grapefruit and 13.0 million boxes of colored grapefruit. All grapefruit bearing trees are estimated to be 4.9 million, up less than 1 percent from the previous season.

The white grapefruit forecast of 4.8 million boxes is 9 percent lower than last season's production. The estimated number of bearing trees is down 3 percent from the previous season. The estimated fruit per tree is 555, an increase of 1 percent from last season. Projected fruit size is below the minimum, requiring an estimated 122 pieces of fruit to fill an 85 -pound box. Projected droppage is above average at 20 percent.

The colored grapefruit forecast of 13.0 million boxes is 1 percent lower than last season's final production. The estimated number of bearing trees is up 1 percent from the previous season. The estimated fruit per tree is 500 , an increase of 2 percent from last season. Projected fruit size is close to the minimum, requiring an estimated 122 pieces of fruit to fill an 85 -pound box. Projected droppage is above average at 20 percent.

## All Tangerines 3.75 Million Boxes

The forecast of all tangerines is 3.75 million boxes, 14 percent higher than last season's production. The total is comprised of 2.05 million boxes of the early varieties (Fallglo and Sunburst) and 1.7 million boxes of the later maturing Honey variety. All tangerine bearing trees are estimated to be 1.69 million, down 4 percent from last season.

The Fallglo tangerine forecast of 550 thousand boxes is 7 percent lower than last season's final production. The estimated number of bearing trees is down 2 percent from the previous season. The estimated fruit per tree is 999 , an increase of 16 percent from last season. Final fruit size is above average, requiring an estimated 255 pieces of fruit to fill a 95 -pound box. Final droppage is average at 16 percent.

The Sunburst tangerine forecast of 1.50 million boxes is 14 percent higher than last season's final production. The estimated number of bearing trees is down 4 percent from the previous season. The estimated fruit per tree is 1,128 , a 16 percent increase from last season. Projected fruit size is near the minimum, requiring an estimated 404 pieces of fruit to fill a 95 -pound box. Projected droppage is above average at 31 percent.

The Honey tangerine forecast of 1.7 million boxes is 24 percent higher than last season's final production. The estimated number of bearing trees is down 3 percent from last season. The estimated fruit per tree is 1,092 , a 1 percent increase from last season. Projected fruit size is below average, requiring an estimated 293 pieces of fruit to fill a 95 -pound box. Projected droppage is above average at 40 percent.

## Tangelos 1.0 Million Boxes

The tangelo forecast of 1.0 million boxes is equal to last season's final production. The estimated number of bearing trees is down 6 percent from the previous season. The estimated fruit per tree is 905 , an increase of 4 percent from last season. Projected fruit size is near the minimum, requiring an estimated 302 pieces of fruit to fill a 90 -pound box. Projected droppage is above average at 9 percent.

## Forecast Procedures

All citrus forecasts are based on actual fruit counts and measurements. The objective count method uses four components:
(1) bearing age trees provided from the latest Commercial Citrus Inventory;
(2) average fruit per tree obtained from the Limb Count survey using randomly selected trees and limbs;
(3) fruit size from the fruit measurement survey and
(4) fruit loss from the drop survey.

These measurements are used in the forecast models, which use data from the 2003-2004 through 2013-2014 seasons, excluding the hurricane seasons of 2004-2005 and 2005-2006.

The latest tree inventory is used to determine estimated tree numbers. All trees planted in 2010 and earlier are included for the current season. An attrition factor was applied to these tree numbers (by age and area) to account for losses since the inventory period.

Statistically valid procedures are used to provide unbiased estimates of fruit count. Samples are drawn with known probabilities from the Commercial Citrus Inventory, taking into account the variability in fruit per tree. Limbs are randomly selected from sample trees. Fruit on these limbs are counted in the mid-July to mid-September period.

Fruit size and loss surveys were conducted in August, September, and October. Results of these surveys are used in the models to project the fruit size at harvest and the fruit population expected to be available for harvest.

Citrus Size Frequency Measurement Distributions, by Type - Florida: October

| 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) |
| NON-VALENCIA ORANGES ${ }^{1}$ |  |  |  | WHITE GRAPEFRUIT ${ }^{2}$ |  |  |  |
| 64 or less. | 2.0 | 0.5 | 0.4 | 32 or less.. | 7.3 | 2.2 | 1.3 |
| 80. | 10.6 | 3.4 | 2.8 | 36 | 15.2 | 8.0 | 4.8 |
| 100. | 33.5 | 16.3 | 12.7 | 40 | 15.2 | 9.9 | 7.2 |
| 125. | 34.7 | 31.6 | 27.1 | 48 | 17.6 | 12.8 | 12.5 |
| 163 or more. | 19.2 | 48.2 | 57.0 | 56 | 13.7 | 12.9 | 11.2 |
|  |  |  |  | 63 or more. | 31.0 | 54.2 | 63.0 |
| NAVEL ORANGES |  |  |  | COLORED GRAPEFRUIT |  |  |  |
| 64 or less. | 42.4 | 30.0 | 25.1 | 32 or less. | 6.9 | 0.8 | 1.3 |
| 80. | 35.8 | 29.6 | 30.1 | 36 | 12.7 | 3.3 | 3.0 |
| 100. | 18.1 | 23.0 | 24.3 | 40 | 15.6 | 8.1 | 6.4 |
| 125. | 2.9 | 10.3 | 12.7 | 48 | 18.0 | 13.5 | 11.7 |
| 163 or more. | 0.8 | 7.1 | 7.8 | 56 | 13.6 | 12.9 | 11.8 |
|  |  |  |  | 63 or more. | 33.2 | 61.4 | 65.8 |
| VALENCIA ORANGES |  |  |  | FALLGLO TANGERINES |  |  |  |
| 64 or less. | 1.4 | 0.8 | 0.4 | 80 or less. | 90.0 | - | 20.0 |
| 80. | 12.7 | 5.1 | 2.9 | 100 | 5.0 | 28.0 | 45.0 |
| 100. | 36.4 | 21.7 | 15.3 | 120 | 5.0 | 35.0 | 35.0 |
| 125. | 32.7 | 34.8 | 30.0 | 176 | - | 10.0 | - |
| 163 or more. | 16.8 | 37.6 | 51.4 | 210 or more | - | 27.0 | - |
| TANGELOS |  |  |  | SUNBURST TANGERINES |  |  |  |
| 80 or less. | 28.5 | 11.2 | 7.6 | 100 or less. | 33.7 | 12.1 | 6.5 |
| 100. | 35.4 | 20.2 | 15.9 | 120 | 29.7 | 18.2 | 15.2 |
| 120. | 21.7 | 28.4 | 23.0 | 176 | 16.6 | 19.5 | 10.4 |
| 156 or more......................... | 14.4 | 40.2 | 53.5 | 210 or more ........................ | 20.0 | 50.2 | 67.9 |

- Represents zero.
${ }^{1}$ Excludes Navel and Temple varieties.
${ }^{2}$ Excludes seedy.

Fruit Size Frequency Measurements, Non-Valencia Oranges ${ }^{1}$, by Diameter Florida: October

${ }^{1}$ Excludes Navel and Temple varieties.

Fruit Size Frequency Measurements,
Colored Grapefruit, by Diameter Florida: October



[^0]:    ${ }^{1}$ 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.
    ${ }^{2}$ 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.
    ${ }^{3}$ Fallglo and Sunburst varieties.
    ${ }^{4}$ Includes tangelos and tangors.

