Cooperating with the Florida Department of Agriculture \& Consumer Services 1222 Woodward St. • Orlando, FL 32803
(407) 648-6013 • (407) 648-6029 FAX • www.nass.usda.gov/f|

December 11, 2007

## ALL ORANGES REMAIN 168.0 MILLION BOXES

The Florida all orange forecast released today by the USDA Agricultural Statistics Board is 168.0 million boxes, unchanged from the initial forecast in October. This is 30 percent more than the 129.0 million boxes produced last season and 31 percent below the record high utilization of 244.0 million (Temples not included) in the 1997-98 season. The division remains as in October, 81.0 million boxes of early-midseason-Navel (including Temples) and 87.0 million boxes of late season Valencia oranges.

Excluding the 2004-05 and 2005-06 hurricane affected seasons, the December forecast has differed from final utilization by an average of 3.6 percent. Seasonal differences range from 8.2 percent below in 1999-00 to 8.5 percent above in 2006-07. Seven of the 10 seasons have been above and three below the final utilization.

## EARLY-MIDSEASON-NAVEL REMAIN 81.0 MILLION BOXES

The early-midseason-Navel (including Temples) portion of the orange forecast remains at 81.0 million boxes. An estimated 3.1 million boxes of this amount are Navels, unchanged from October. Navel harvest is underway with fresh fruit packing houses packing for gift fruit and fundraiser programs for the holidays.

Citrus Production: December 1, 2007
Forecasts by varieties and states, with comparisons

| Crop and State | Production |  | Forecast |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 2005-06 | 2006-07 | Oct 12, 2007 | Dec 11, 2007 |
|  | -- 1,000 boxes -- |  |  |  |
| Early, Midseason, and Navel Oranges: |  |  |  |  |
| FLORIDA ${ }^{1 /}$ | 75,000 | 65,600 | 81,000 | 81,000 |
| California | 47,000 | 34,000 | 43,000 | 43,000 |
| Texas | 1,400 | 1,600 | 1,450 | 1,450 |
| Arizona | 250 | 200 | 200 | 200 |
| Total Above Varieties | 123,650 | 101,400 | 125,650 | 125,650 |
| Valencias: |  |  |  |  |
| FLORIDA | 72,700 | 63,400 | 87,000 | 87,000 |
| California | 14,000 | 11,000 | 15,000 | 15,000 |
| Texas | 200 | 380 | 350 | 350 |
| Arizona | 200 | 100 | 100 | 100 |
| Total Valencias | 87,100 | 74,880 | 102,450 | 102,450 |
| All Oranges: |  |  |  |  |
| FLORIDA | 147,700 | 129,000 | 168,000 | 168,000 |
| California | 61,000 | 45,000 | 58,000 | 58,000 |
| Texas | 1,600 | 1,980 | 1,800 | 1,800 |
| Arizona | 450 | 300 | 300 | 300 |
| Total All Oranges | 210,750 | 176,280 | 228,100 | 228,100 |

[^0]| FORECAST DATES - 2007-08 SEASON |  |
| :--- | :---: |
| January 11, 2008 | May 9, 2008 |
| February 8, 2008 | June 10, 2008 |
| March 11, 20088 | July 11, 2008 |
| April 9, 2008 |  |

Average fruit sizes of early-midseason oranges were the smallest ever measured in the month of November and are projected to be record small at harvest for a disaster-free season. Although low in October, the droppage rate increased over the last two months but is projected to be below the previous ten season non-hurricane average at harvest. Volume harvest for processing has just started.

## VALENCIA ORANGES 87.0 MILLION BOXES

The Valencia portion of the forecast is 87.0 million boxes, also unchanged from October. Average fruit sizes are small, although not record for this time of year and excluding the 2004-05 hurricane season, are projected to be the smallest since the 1992-93 season. Droppage is below the previous 10 nonhurricane season average and is projected to be below this average at harvest.

| Components Used in the December |  |  |  |  |
| :---: | ---: | :---: | :---: | :---: |
| Forecast |  |  |  |  |
| Type | Bearing <br> trees | Fruit <br> per <br> tree | Percent <br> droppage | Fruit <br> per <br> box |
| $(1,000)$ |  |  |  |  |
| Oranges: |  |  |  |  |
| Early-Mid | 24,473 | 1,052 | 8 | 271 |
| Navel | 1,284 | 440 | 10 | 138 |
| Valencia | 33,835 | 679 | 13 | 219 |

## FCOJ YIELD 1.60 GALLONS PER BOX

The initial projection of FCOJ yield of all oranges remains at 1.60 gallons per box. The average final yield over the last 10 seasons is 1.59 gallons per box. A separate projection of early-midseason and Valencia yield will be made next month.

## GRAPEFRUIT CONTINUES 25.0 MILLION BOXES

The Florida grapefruit forecast continues at 25.0 million boxes. However, there is a shift in the allocation between white and colored varieties. The white grapefruit forecast is lowered 1.0 million boxes to 8.0 million and the colored varieties forecast is increased 1.0 million to 17.0 million. With the exception of the hurricane-reduced 2004-05 and 2005-06 seasons, this grapefruit crop is forecast to be the lowest since the 24.2 million boxes harvested in the 1949-50 season.

The rate of fruit growth of white grapefruit has slowed since October. Droppage has increased and the combination indicates the reduced forecast. Average fruit size is projected to be the smallest on record in the series dating back to the 1968-69 season. It is now expected to take 103 pieces of fruit to fill an 85 pound field box. Although droppage is higher than average, it is expected to match last season's near 12 percent average.

The rate of fruit growth of colored grapefruit continues near the projected value in October and would result in the smallest sizes on record. Although still near the projected amount, droppage has slowed and now indicates slightly below the previous 10 season average at harvest. The combination indicates the increase in the forecast.

Citrus Production: December 1, 2007 forecasts by varieties and states, with comparisons

| Crop and State | Production |  | Forecast |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | :---: | :---: | :---: | :---: | :---: |
|  | $2005-06$ |  | $2006-07$ |  |  |  |  | Oct 12, 2007 | Dec 11, 2007 |
|  | $--\mathbf{1 , 0 0 0}$ boxes --- |  |  |  |  |  |  |  |  |
| GRAPEFRUIT: | $\mathbf{y y y y y}$ |  |  |  |  |  |  |  |  |
| FLORIDA-All | $\mathbf{1 9 , 3 0 0}$ | $\mathbf{2 7 , 2 0 0}$ | $\mathbf{2 5 , 0 0 0}$ | $\mathbf{2 5 , 0 0 0}$ |  |  |  |  |  |
| White | $\mathbf{6 , 5 0 0}$ | $\mathbf{9 , 3 0 0}$ | $\mathbf{9 , 0 0 0}$ | $\mathbf{8 , 0 0 0}$ |  |  |  |  |  |
| Colored | $\mathbf{1 2 , 8 0 0}$ | $\mathbf{1 7 , 9 0 0}$ | $\mathbf{1 6 , 0 0 0}$ | $\mathbf{1 7 , 0 0 0}$ |  |  |  |  |  |
| California | 6,000 | 4,000 | 4,500 | 4,500 |  |  |  |  |  |
| Texas | 5,200 | 7,100 | 6,800 | 6,800 |  |  |  |  |  |
| Arizona | 100 | 100 | 200 | 200 |  |  |  |  |  |
| Total Grapefruit | 30,600 | 38,400 | 36,500 | 36,500 |  |  |  |  |  |

Lemons:

| California | 22,000 | 16,000 | 16,500 | 16,500 |
| :--- | ---: | ---: | ---: | ---: |
| Arizona | 3,800 | 2,500 | 1,500 | 1,500 |
| Total Lemons | 25,800 | 18,500 | 18,000 | 18,000 |


| Temples: Florida | $\mathbf{7 0 0}$ | ${ }^{1 /}$ | ${ }^{1 /}$ | ${ }^{1 /}$ |
| :--- | ---: | ---: | ---: | ---: |
| Tangelos: Florida | $\mathbf{1 , 4 0 0}$ | $\mathbf{1 , 2 5 0}$ | $\mathbf{1 , 3 0 0}$ | $\mathbf{1 , 3 0 0}$ |
| TANGERINES: |  |  |  |  |
| FLORIDA-All | $\mathbf{5 , 5 0 0}$ | $\mathbf{4 , 6 0 0}$ | $\mathbf{5 , 1 0 0}$ | $\mathbf{4 , 8 0 0}$ |
| Early $^{2 /}$ | $\mathbf{2 , 8 5 0}$ | $\mathbf{2 , 4 0 0}$ | $\mathbf{2 , 6 0 0}$ | $\mathbf{2 , 6 0 0}$ |
| Honey $^{\text {California }}{ }^{3 /}$ | $\mathbf{2 , 6 5 0}$ | $\mathbf{2 , 2 0 0}$ | $\mathbf{2 , 5 0 0}$ | $\mathbf{2 , 2 0 0}$ |
| Arizona $^{3 /}$ | 3,600 | 2,900 | 4,700 | 4,700 |
| Total Tangerines | 550 | 300 | 400 | 400 |

[^1]Components Used in the December

| FORECAST |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Type | Bearing <br> trees | Fruit <br> per <br> tree | Percent <br> droppage | Fruit <br> per <br> box |
| $(1,000)$ |  |  |  |  |
| GrAPEFRUIT: $^{\text {White }}$ 1/ | 1,862 | 557 | 12 | 103 |
| Colored | 4,155 | 499 | 12 | 110 |
| ${ }^{1 /}$ Seedless variety only. |  |  |  |  |

Combining the white and colored indicators continues to show the 25.0 million total box forecast.

Harvest of grapefruit is less than normal at this time because of later maturity and small sizes. Utilization to the first of December is estimated at 2.5 million boxes compared to 3.4 million last season to the same time. Most of the white grapefruit is being exported and colored varieties are being shipped to domestic and export markets.

## All TANGERINES REDUCED TO 4.8 MILLION BOXES

The forecast of all tangerines is reduced 300,000 boxes to 4.8 million. All of the reduction is in the later maturing Honey variety. The forecast of early varieties remains at 2.6 million boxes, but the Honey variety is reduced from 2.5 million boxes to 2.2 million.

The early variety forecast, consisting of Fallglo and Sunburst tangerines, is continued at 2.6 million boxes. Harvest of Fallglo is near complete with an estimated 650,000 boxes utilized. Harvest of the Sunburst variety has begun and will continue strong through the holiday period. Sunburst fruit sizes measured in November indicate the smallest on record.

The Honey tangerine forecast is reduced 300,000 boxes to 2.2 million. The rate of fruit growth has slowed since October and is now projected to average the smallest since the 1989-90 freeze season. Fruit droppage has increased and the combination indicates the reduction in the forecast. Start of harvest may be delayed because of lagging maturity and small sizes.

## TANGELOS REMAIN 1.3 MILLION BOXES

The tangelo forecast is continued at 1.3 million boxes. Fruit sizes remain small with droppage low. Harvest of the Orlando variety for the holidays has started. Estimated utilization to the first of the month however is only 145,000 boxes.

## Unadjusted Maturity Tests: Average of regular bloom fruit from sample groves, 2006-07 and 2007-08 seasons

| $\begin{array}{c}\text { Fruit type } \\ \text { (No. groves) } \\ \text { test date }\end{array}$ | Acid |  | $\begin{array}{c}\text { Solids } \\ \text { (Brix) }\end{array}$ |  | Ratio |  | $\begin{array}{c}\text { Unfinished juice } \\ \text { per box }\end{array}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | \(\left.\begin{array}{c}Solids <br>

per box\end{array}\right]\)

Oranges:
Early (111-115)

| Sep 1 | 1.71 | 1.76 | 9.44 | 9.45 | 5.61 | 5.50 | 42.68 | 41.07 | 4.02 | 3.88 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Oct 1 | 1.16 | 1.26 | 9.57 | 10.27 | 8.44 | 8.36 | 48.86 | 45.92 | 4.68 | 4.71 |
| Nov 1 | 0.92 | 0.88 | 10.33 | 10.21 | 11.42 | 11.91 | 49.83 | 50.87 | 5.15 | 5.19 |
| Dec 1 | 0.83 | 0.82 | 10.81 | 10.90 | 13.18 | 13.62 | 52.09 | 51.74 | 5.62 | 5.63 |
| Mid (50-54) |  |  |  |  |  |  |  |  |  |  |
| Sep 1 | 1.81 | 2.00 | 9.28 | 9.63 | 5.24 | 4.91 | 42.79 | 41.56 | 3.97 | 4.00 |
| Oct 1 | 1.29 | 1.50 | 9.52 | 9.63 | 7.52 | 6.57 | 50.09 | 46.23 | 4.77 | 4.45 |
| Nov 1 | 1.04 | 1.01 | 10.30 | 10.30 | 10.15 | 10.47 | 50.87 | 50.74 | 5.24 | 5.23 |
| Dec 1 | 0.88 | 0.97 | 10.85 | 11.23 | 12.49 | 11.77 | 52.49 | 50.30 | 5.69 | 5.64 |
| Late (150-149) |  |  |  |  |  |  |  |  |  |  |
| Sep 1 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Oct 1 | 2.50 | 2.62 | 8.91 | 9.47 | 3.59 | 3.66 | 45.75 | 43.86 | 4.08 | 4.15 |
| Nov 1 | 2.02 | 1.95 | 9.82 | 9.27 | 4.94 | 4.82 | 48.78 | 48.85 | 4.79 | 4.53 |
| Dec 1 | 1.70 | 1.70 | 9.88 | 10.11 | 5.89 | 6.02 | 51.66 | 52.22 | 5.10 | 5.28 |
| APEFRUIT: |  |  |  |  |  |  |  |  |  |  |
| White Seedless (47-45) |  |  |  |  |  |  |  |  |  |  |
| Sep 1 | 1.87 | 1.94 | 10.55 | 10.18 | 5.64 | 5.31 | 32.16 | 30.29 | 3.38 | 3.08 |
| Oct 1 | 1.60 | 1.64 | 10.51 | 10.09 | 6.59 | 6.17 | 37.28 | 35.63 | 3.91 | 3.59 |
| Nov 1 | 1.58 | 1.40 | 10.78 | 9.96 | 6.85 | 7.17 | 41.47 | 41.40 | 4.46 | 4.12 |
| Dec 1 | 1.56 | 1.37 | 10.87 | 10.08 | 7.01 | 7.40 | 42.90 | 44.15 | 4.67 | 4.45 |
| Colored Seedless (46-48) |  |  |  |  |  |  |  |  |  |  |
| Sep 1 | 1.86 | 1.96 | 10.46 | 10.52 | 5.65 | 5.40 | 31.91 | 30.61 | 3.33 | 3.21 |
| Oct 1 | 1.55 | 1.67 | 10.49 | 10.56 | 6.79 | 6.36 | 38.76 | 35.34 | 4.06 | 3.73 |
| Nov 1 | 1.54 | 1.40 | 11.26 | 10.43 | 7.37 | 7.50 | 42.75 | 41.69 | 4.81 | 4.35 |
| Dec 1 | 1.45 | 1.37 | 10.94 | 10.64 | 7.57 | 7.79 | 43.94 | 44.79 | 4.81 | 4.76 |

NOTICE: 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.

## Maturity test averages by areas, December 1, 2007

| Fruit type | Groves sampled | Acid | $\begin{aligned} & \hline \text { Solids } \\ & \text { (Brix) } \end{aligned}$ | Ratio | Unfinished juice per box | Solids per box |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | Percent | Percent |  | Pounds | Pounds |
| Oranges: |  |  |  |  |  |  |
| Early |  |  |  |  |  |  |
| Indian River | 9 | 0.84 | 10.79 | 13.16 | 51.47 | 5.55 |
| Other Areas | 106 | 0.82 | 10.91 | 13.66 | 51.76 | 5.64 |
| Midseason |  |  |  |  |  |  |
| Indian River | 11 | 1.00 | 11.10 | 11.13 | 52.44 | 5.81 |
| Other Areas | 43 | 0.96 | 11.26 | 11.94 | 49.75 | 5.60 |
| Late |  |  |  |  |  |  |
| Indian River | 25 | 1.83 | 10.03 | 5.54 | 53.24 | 5.17 |
| Other Areas | 124 | 1.68 | 10.12 | 6.12 | 52.02 | 5.26 |
| Grapefruit: |  |  |  |  |  |  |
| White Seedless |  |  |  |  |  |  |
| Indian River | 35 | 1.39 | 10.11 | 7.31 | 43.88 | 4.44 |
| Other Areas | 10 | 1.31 | 9.96 | 7.68 | 45.12 | 4.49 |
| Colored Seedless |  |  |  |  |  |  |
| Indian River | 38 | 1.39 | 10.62 | 7.69 | 45.01 | 4.78 |
| Other Areas | 10 | 1.31 | 10.69 | 8.20 | 43.94 | 4.69 |

## FRUIT SIZE COMPARISONS BY TYPES TO PREVIOUS SEASONS

Size frequency distributions developed from the November size survey are shown in the following table. The distributions are by percent of fruit falling within the size range of each 4/5bushel container. These frequency distributions relate to fruit from regular bloom and exclude summer bloom in all years.

Florida Citrus: Size frequency distributions from November measurements

| Type of fruit and size in 4/5-bushel containers | 2005 | 2006 | 2007 |
| :---: | :---: | :---: | :---: |
|  | -- - Percent -- |  |  |
| Early and midseason oranges: (excluding Navels) |  |  |  |
| 64 and larger | 0.4 | 3.9 | 0.8 |
| 80 | 3.3 | 13.9 | 6.1 |
| 100 | 17.2 | 32.8 | 22.0 |
| 125 | 37.3 | 31.3 | 35.9 |
| 163 and smaller | 41.8 | 18.1 | 35.2 |
| NaVEL oranges: |  |  |  |
| 64 and larger | 49.9 | 75.4 | 52.8 |
| 80 | 33.5 | 20.4 | 32.3 |
| 100 | 13.1 | 3.7 | 9.9 |
| 125 | 2.7 | 0.5 | 3.8 |
| 163 and smaller | 0.8 | 0.0 | 1.2 |
| Valencia oranges: |  |  |  |
| 64 and larger | 0.6 | 2.7 | 1.1 |
| 80 | 6.0 | 16.4 | 7.8 |
| 100 | 27.8 | 37.1 | 28.7 |
| 125 | 39.1 | 29.5 | 35.1 |
| 163 and smaller | 26.5 | 14.3 | 27.3 |
| White seedless grapefruit: |  |  |  |
| 32 and larger | 16.7 | 11.1 | 3.7 |
| 36 | 19.3 | 19.7 | 10.0 |
| 40 | 26.3 | 25.0 | 15.0 |
| 48 | 15.5 | 17.7 | 22.3 |
| 56 | 9.7 | 11.0 | 17.2 |
| 63 and smaller | 12.5 | 15.5 | 31.8 |
| Colored seedless grapefruit: |  |  |  |
| 32 and larger | 14.1 | 4.3 | 2.7 |
| 36 | 14.1 | 12.1 | 7.3 |
| 40 | 23.3 | 22.5 | 13.7 |
| 48 | 17.4 | 21.1 | 21.7 |
| 56 | 12.9 | 16.1 | 14.3 |
| 63 and smaller | 18.2 | 23.9 | 40.3 |
| Sunburst tangerines: |  |  |  |
| 80 and larger | 9.3 | 10.3 | 7.3 |
| 100 and larger | 21.5 | 27.8 | 18.6 |
| 120 | 25.2 | 27.8 | 32.1 |
| 176 | 15.3 | 18.1 | 13.4 |
| 210 and smaller | 28.7 | 16.0 | 28.6 |
| Honey tangerines |  |  |  |
| 80 and larger | 2.6 | 7.5 | 2.6 |
| 100 | 18.5 | 25.0 | 14.7 |
| 120 | 40.2 | 34.1 | 27.0 |
| 176 | 18.7 | 12.5 | 18.8 |
| 210 and smaller | 20.0 | 20.9 | 36.9 |
| Tangelos: |  |  |  |
| 80 and larger | 18.9 | 40.8 | 22.7 |
| 100 | 33.3 | 34.2 | 25.6 |
| 120 | 25.6 | 17.3 | 25.6 |
| 156 and smaller | 22.2 | 7.7 | 26.1 |

The charts below describe the relationships of the fruit size measurements with those taken in the previous year. The diameter measurements shown are the minimum values of each eight inch range, except for the smallest values.

Chart 1: Early and midseason oranges (excluding Navels) size frequency by diameter from November measurements


Chart 2: White seedless grapefruit size frequency by diameter from November measurements

Diameter
(Inches)



[^0]:    ${ }^{1 /}$ Includes Temples beginning in 2006-07. Historic Temple production listed on page 2.

[^1]:    ${ }^{1 /}$ Included in early-midseason-Navel oranges.
    ${ }^{2 /}$ Fallglo and Sunburst varieties.
    ${ }^{3 /}$ Includes tangelos and tangors.

