

CITRUS OCTOBER FORECAST MATURITY TEST RESULTS AND FRUIT SIZE

ALL ORANGES 176.0 MILLION BOXES

The 2004-05 Florida orange forecast, released today by the USDA Agricultural Statistics Board, is a hurricane reduced 176.0 million boxes. This forecast is for conditions as of October 1, and takes into account losses of fruit from the four hurricanes that passed through citrus producing areas of the State in August and September. The forecast is 66 million boxes, or 27 percent, less than last season's near record 242.0 million boxes. The total is divided into the early-midseason-Navel forecast of 92.0 million boxes and the Valencia portion of 84.0 million.

FORECAST PROCEDURES

All forecasts are based on tree inventory, fruit counts, and fruit measurements made by the Florida Agricultural Statistics Service. Analysis of these factors projects the quantity of fruit to be utilized during the season. Page 6 of this release details these procedures.

POST-HURRICANE ADAPTATIONS

This season the annual Limb Count survey was modified to account for the effects of recent hurricanes – Charley on August 13th and Frances on September 5th. In order to better assess the damage, crews refrained from surveying the areas affected for a period of time and concentrated on other counties. When work resumed in the affected areas,

CITRUS PRODUCTION, OCTOBER 1, 2004 FORECASTS BY VARIETIES AND STATES, WITH COMPARISONS

| Crop and State | | Forecast | | |
|-----------------------|-----------|----------|---------|---------|
| Crop and State | 2001-02 | 2002-03 | 2003-04 | 2004-05 |
| | | 1,000 | 0 boxes | |
| EARLY, MIDSEASON, AND | NAVEL ORA | NGES: | | |
| FLORIDA | 128,000 | 112,000 | 126,000 | 92,000 |
| California | 32,000 | 42,000 | 38,000 | 46,000 |
| Texas | 1,530 | 1,350 | 1,420 | 1,650 |
| Arizona | 270 | 200 | 300 | 270 |
| Total Above Varieties | 161,800 | 155,550 | 165,720 | 139,920 |
| VALENCIAS: | | | | |
| FLORIDA | 102,000 | 91,000 | 116,000 | 84,000 |
| California | 19,500 | 20,000 | 14,000 | 16,000 |
| Texas | 210 | 220 | 230 | 250 |
| Arizona | 250 | 270 | 170 | 170 |
| Total Valencias | 121,960 | 111,490 | 130,400 | 100,420 |
| ALL ORANGES: | | | | |
| FLORIDA | 230,000 | 203,000 | 242,000 | 176,000 |
| California | 51,500 | 62,000 | 52,000 | 62,000 |
| Texas | 1,740 | 1,570 | 1,650 | 1,900 |
| Arizona | 520 | 470 | 470 | 440 |
| Total All Oranges | 283,760 | 267,040 | 296,120 | 240,340 |

FLORIDA AGRICULTURE

October 12, 2004

FORECAST DATES 2004-05 SEASON

November 12, 2004

December 10, 2004

samples that were not counted prior to the storms were completed. To help adjust for the storm damages, approximately one-third of the limbs in previously sampled groves were recounted. This work was completed by September 25th, one day before Hurricane Jeanne. To account for additional fruit loss from Jeanne, field personnel assessed dropped fruit while collecting samples on the monthly Maturity Survey. Additional loss factors by location, type, and age of tree were then applied to fruit numbers from the Limb Count surveys.

In addition, the monthly size and drop survey was modified to account for storm losses in the areas affected. This survey will monitor fruit droppage and size in the coming months.

Bearing tree numbers used in the forecasts include trees planted in 2001 and earlier. Attrition rates of the last several seasons were considered when determining the rate to be applied to the 2004 Commercial Citrus Inventory that was completed before the hurricanes. Additional losses were estimated to account for trees lost from the hurricanes.

In seasons not affected by unusual weather events, the objective count procedures are designed to be, and have been successful at projecting final utilization within five percent in most seasons. In the past ten seasons, final utilization differed from the October forecast by an average of 3.9 percent. Accuracy of this season's forecasts will be affected by survey modifications and future weather conditions that may alter fruit size and drop assumptions.

FCOJ YIELD 1.56 GALLONS PER BOX

The all orange FCOJ yield projection is 1.56 gallons per box of 42 degrees Brix concentrate. Last season's final yield as reported by the Florida Citrus Processors Association was 1.5565 gallons per box. Final yield over the past five seasons has been very consistent, varying from a low of 1.54 to a high of 1.58. The record high yield of 1.63 gallons occurred in the 1998-99 season. A separate projection for fruit going into the early-midseason and late categories will be made in the January release. Projections of yield assume the processing relationships of recent seasons. See pages 3 and 4 for further details.

U.S. Department of Agriculture National Agricultural Statistics Service Florida Department of Agriculture and Consumer Services Division of Marketing and Development University of Florida Institute of Food and Agricultural Sciences

EARLY-MIDSEASON-NAVEL 92.0 MILLION BOXES

The early-midseason-Navel forecast is 92.0 million boxes, 27 percent less than harvested last season, and is the smallest crop since the 83.4 million boxes produced in the 1991-92 season.

Excluding Navels, 32.0 million bearing trees were used in the expansions, down 1.3 percent from last season. Bearing tree numbers have been declining since the 1998-99 season.

The average fruit per tree from the Limb Count survey (weighted by the 25 cell age/area matrix) is 30 percent less than last season and the lowest since the 1982-83 season. The Central area had the highest fruit per tree average, followed closely by the Southern area. Pieces of fruit per tree in the Indian River District, affected most severely by the recent hurricanes, have approximately one-third of the state average. The early portion, mostly Hamlins, represents 86 percent of the early-mid fruit population.

Fruit size in September ties as the second lowest in a ten season series, however the growth rate is projected to be slightly above average due to the abundant rainfall, and light fruit set. Average size is projected to be the third lowest in ten years at harvest. At this size, it will take 21 more fruit than last season to make a 90 pound equivalent box.

Current drop is slightly below average; however, drop is expected to be above average by harvest. Future weather conditions could alter the projection for both drop and size.

NAVEL ORANGES ONLY 3.0 MILLION BOXES

The Navel forecast at 3.0 million boxes is 30 percent less than last season's 4.3 million boxes harvested. This forecast includes an allocation of 1.0 million boxes for non-certified and gift fruit. The current forecast is the lowest since the 2.6 million boxes utilized in the 1987-88 season.

The number of bearing trees has been declining since the 1996-97 season and now are estimated at 1.9 million, eight percent less than last season. Average fruit per tree is 34 percent less than last season and the lowest on record since forecasting Navels separately beginning in the 1986-87 season. Fruit sizes are smaller than average and with the current growth rates fruit is expected to remain slightly below average.

Fruit drop is very low at this time, but is expected to be slightly above average by the end of the season. A good portion of this crop this year will be used by fund raising groups.

VALENCIA ORANGES 84.0 MILLION BOXES

The Valencia forecast of 84.0 million boxes is the lowest since the 74.0 million boxes harvested in the 1998-99 season. This forecast is 28 percent less than the record 116.0 million boxes harvested last season.

Estimated bearing tree numbers at 41.2 million are up compared to 40.9 million last season. A high proportion of the trees planted in the last few years have been Valencias, which are now coming into production.

Average fruit per tree decreased 22 percent from last season's level and is the second lowest average in a 10 year series, with the 2002-03 season being slightly lower. The fruit population distribution shows 70 percent of the crop in the Central and Southern areas, due to the heavy hurricane damage in the Western and Indian River areas. The Southern area, predominantly the Gulf Marketing District, has 38 percent as compared to 32 percent last season.

Despite low average fruit per tree, the current below average growth rate has resulted in projected fruit sizes to be slightly below the ten year average. Early season above average rainfall may continue to affect growth rates and fruit sizes. Current drop rates are slightly below average, but are

COMPONENTS USED IN THE OCTOBER FORECAST

| Туре | Bearing trees | Fruit per tree | Percent droppage | Fruit per box | |
|-----------|------------------|----------------------|---------------------|------------------|--|
| | (1,000) | | | | |
| Early-Mid | 31,999 | 863 | 10 | 251 | |
| Navel | 1,862 | 249 | 14 | 134 | |
| Valencia | 41,208 | 529 | 15 | 207 | |

expected to be above average at harvest. Due to the longer time to maturity of Valencias than other orange varieties and weather conditions during the next several months, these fruit size and droppage assumptions could change and alter the expected crop size.

TEMPLES 800,000 BOXES

The Temple forecast of 800,000 boxes is the lowest amount since the series began in 1954-55. If realized, this crop will be 43 percent less than last season's utilization of 1.4 million boxes, and 87 percent below the record 6.0 million boxes.

Bearing tree numbers continue to decline, down 12 percent from last season. Also, because of the hurricanes, average fruit per tree is down 43 percent from last season.

As with other varieties, trees were uprooted and split from the hurricanes that affected the east coast and interior growing areas. Droppage is expected to be above average although weather effects of the next several months may alter this projection. Average fruit sizes are expected to be larger than average, but also may be altered by future weather conditions.

TANGELOS 1.4 MILLION BOXES

The tangelo forecast of 1.4 million boxes is 40 percent more than last season's greatly reduced 1.0 million boxes. Although not a record low, last season's production is the lowest in a downward trend dating back to 1979-80. Last season, the average fruit per tree was very low. This season, in spite of the hurricanes, average fruit per tree is 81 percent more than last.

Bearing tree numbers are down 21 percent from last season. Fruit sizes are smaller then average at this time and are expected to be smaller at harvest. Droppage at harvest is expected to be above average, but may be altered because of weather conditions in the next several months.

| EXPECTED GIFT FRUIT SHIPMENTS UNDER THE 6-R PROGRAM, AND NON-CERTIFIED USAGE, 2004-05 SEASON | | | | |
|--|--|--|--|--|
| Туре | 1,000 boxes | | | |
| Early and Midseason Oranges Valencia Oranges White Grapefruit Colored Grapefruit Temples Tangelos Tangerines | 2,000 1,000 200 500 50 200 300 | | | |

| FLORIDA CITRUS: | Distribution of estimated fruit population in |
|-----------------|---|
| Septer | nber by areas and age groups ^{1/1} |

| Areas | Oranges | | | | | |
|--|---|--|---|---|--|--|
| and | Early - M | idseason | Vale | encia | | |
| age groups | 2003-04 | 2004-05 | 2003-04 | 2004-05 | | |
| Indian River | | Pe | rcent | | | |
| District Northern Central Western Southern | 6 8 30 35 21 | 3 6 27 28 36 | 10 2 32 24 32 | 6 3 32 21 38 | | |
| 3 - 5 years 6 - 8 years 9 - 13 years 14 - 23 years 24 yrs & over | 2 3 23 45 27 | 4 4 20 54 18 | 6 5 30 34 25 | 6 7 26 45 16 | | |
| | | Soodloss | Granefruit | | | |
| Areas | | Occuless | Oraponun | | | |
| Areas and | Wh | iite | Col | ored | | |
| Areas and age groups | Wh 2003-04 | iite 2004-05 | Col 2003-04 | ored 2004-05 | | |
| Areas and age groups | Wh 2003-04 | ite 2004-05 Per | Col 2003-04 rcent | ored 2004-05 | | |
| Areas and age groups Indian River District Northern Central Western Southern | Wh 2003-04 72 ^{2/} 14 2 12 | 34 2004-05 Per 34 1 25 3 37 | Col 2003-04 rcent 69 2 12 4 13 | ored 2004-05 33 5 11 3 48 | | |



^{1/} Distribution of fruit population in September as determined by multiplying average fruit per tree from the Limb Count Survey by bearing age trees.

^{2/} Less than one percent.

UNADJUSTED MATURITY TESTS: Average of regular bloom fruit from sample groves, 2003-04 and 2004-05 seasons

| Fruit type (No. groves) | Aci | d | Soli (Bri | ds x) | Rat | tio | Unfinishe per | ed juice box | Soli per b | ds box |
|--|----------------------|----------------|----------------------|---------------------|---------------|--------------|----------------------|-----------------------|----------------|--------------|
| test date | 2003-04 | 2004-05 | 2003-04 | 2004-05 | 2003-04 | 2004-05 | 2003-04 | 2004-05 | 2003-04 | 2004-05 |
| ORANGES: Farly (120-120) | Perc | ent Juice a | Perc and solids p | ent er box are ι | unadjusted a | and not com | Pour parable to p | nds plant test res | Pour sults. | nds |
| Sep 1 Oct 1 | 1.21 0.83 | 1.62 1.08 | 9.34 9.68 | 9.31 9.27 | 7.85 11.82 | 5.85 8.73 | 42.64 49.07 | 42.42 48.40 | 3.98 4.75 | 3.95 4.49 |
| Mid (55-53) Sep 1 Oct 1 | 1.43 1.06 | 1.80 1.26 | 9.35 9.73 | 9.02 9.01 | 6.63 9.39 | 5.11 7.26 | 44.12 49.26 | 42.08 49.93 | 4.13 4.79 | 3.79 4.50 |
| Late (150-144) Sep 1 Oct 1 | NA 2.01 | NA 2.43 | NA 8.92 | NA 8.64 | NA 4.47 | NA 3.59 | NA 46.28 | NA 46.50 | NA 4.13 | NA 4.02 |
| GRAPEFRUIT: White Seedless (50-4) Sep 1 Oct 1 | 5) 1.55 1.39 | 1.70 1.42 | 9.53 9.78 | 9.55 9.24 | 6.18 7.05 | 5.62 6.54 | 34.78 38.74 | 32.97 38.87 | 3.31 3.79 | 3.15 3.59 |
| Colored Seedless (49 Sep 1 Oct 1 | -48) 1.49 1.33 | 1.66 1.37 | 9.81 10.12 | 9.74 9.45 | 6.58 7.63 | 5.87 6.94 | 34.79 40.26 | 33.96 40.29 | 3.42 4.07 | 3.31 3.81 |

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.

| from sample | e groves, | by types | s, as of O | ctober 1 | , 1996 throug | h 2004 |
|-------------|-----------|----------|------------|----------|---------------|---------|
| Fruit | Groves | Aoid | Solids | Datio | Unfinished | Solids |
| type | sampled | Aciu | (Brix) | Ralio | juice per box | per box |
| | Number | Percent | Percent | | Pounds | Pounds |
| ORANGES: | | | | | | |
| EARLY | | | | | | |
| 1996 | 120 | 1.14 | 9.85 | 8.84 | 48.14 | 4.74 |
| 1997 | 120 | 0.99 | 9.80 | 10.17 | 47.27 | 4.63 |
| 1998 | 120 | 1.14 | 9.38 | 8.34 | 47.88 | 4.49 |
| 1999 | 120 | 1.20 | 9.36 | 7.94 | 46.51 | 4.35 |
| 2000 | 120 | 1.10 | 9.85 | 9.13 | 48.63 | 4.78 |
| 2001 | 120 | 0.96 | 9.81 | 10.40 | 48.92 | 4.80 |
| 2002 | 120 | 0.89 | 9.82 | 11.41 | 51.79 | 5.08 |
| 2003 | 120 | 0.83 | 9.68 | 11.82 | 49.07 | 4.75 |
| 2004 | 120 | 1.08 | 9.27 | 8.73 | 48.40 | 4.49 |
| MIDSEASON | | | | | | |
| 1996 | 55 | 1.40 | 9.76 | 7.07 | 48.95 | 4.78 |
| 1997 | 54 | 1.14 | 9.43 | 8.47 | 50.05 | 4.72 |
| 1998 | 55 | 1.30 | 9.14 | 7.19 | 48.25 | 4.41 |
| 1999 | 55 | 1.41 | 9.10 | 6.57 | 46.89 | 4.27 |
| 2000 | 55 | 1.22 | 9.47 | 7.94 | 49.78 | 4.71 |
| 2001 | 55 | 1.17 | 9.56 | 8.39 | 49.75 | 4.76 |
| 2002 | 55 | 1.01 | 9.58 | 9.68 | 52.84 | 5.06 |
| 2003 | 55 | 1.06 | 9.73 | 9.39 | 49.26 | 4.79 |
| 2004 | 53 | 1.26 | 9.01 | 7.26 | 49.93 | 4.50 |
| LATE | | | | | | |
| 1996 | 150 | 2.40 | 8.93 | 3.76 | 46.08 | 4.11 |
| 1997 | 150 | 2.10 | 8.84 | 4.30 | 47.87 | 4.23 |
| 1998 | 150 | 2.44 | 8.65 | 3.60 | 45.68 | 3.95 |
| 1999 | 150 | 2.51 | 8.55 | 3.45 | 43.36 | 3.71 |
| 2000 | 150 | 2.45 | 8.80 | 3.65 | 46.50 | 4.09 |
| 2001 | 150 | 2.19 | 8.87 | 4.11 | 47.72 | 4.23 |
| 2002 | 150 | 2.04 | 8.70 | 4.34 | 48.96 | 4.26 |
| 2003 | 150 | 2.01 | 8.92 | 4.47 | 46.28 | 4.13 |
| 2004 | 144 | 2.43 | 8.64 | 3.59 | 46.50 | 4.02 |

UNADJUSTED MATURITY TESTS: Averages of regular bloom fruit om sample groves, by types, as of October 1, 1996 through 2004

MATURITY

Results of the second maturity tests of the 2004-05 season for all but the late oranges, which were tested for the first time, are to the left. Samples tested are from groves on routes which cover all five major citrus producing areas.

Sample size for all types have remained constant for the past several seasons. The grapefruit sample size was 100 at the start of this season, which included 50 samples each for the white and colored seedless types. After the hurricanes, only 45 white samples had sufficient fruit remaining to test, however 48 colored grapefruit samples remained for use. All of the 120 early oranges, 53 of the 55 midseason, and 144 of the 150 Valencias were available for testing.

Samples were collected September 28-29 and tested at the Orlando test laboratory of the Florida Agricultural Statistics Service. Only regular bloom fruit is collected and tested.

Rainfall through the summer has been excessive in all areas. Lower interior and coastal areas have received more than the upper interior with some recording stations showing two or three times the average for the year.

In comparison to previous seasons, acid levels are the highest since 2000-01 for the early and late varieties and 1999-00 for the midseason fruit. Brix levels are lower than in recent seasons. Grapefruit acid levels are higher than last season at this time.

The ratio of solids to acid is low reflecting the high acid levels. Juice levels for early oranges are slightly lower than last season but higher for midseasons and Valencias. Generally, maturity levels are two or three weeks behind last season.

Some fresh fruit packers opened in late September. Varieties being shipped include early oranges, early tangerines, and grapefruit.

Maturity test averages by areas, October 1, 2004

| Fruit type | Groves sampled | Acid | Solids (Brix) | Ratio | Unfinished juice per box | Solids per box |
|--------------------|----------------|---------|------------------|-------|-----------------------------|-------------------|
| | Number | Percent | Percent | | Pounds | Pounds |
| ORANGES: | | | | | | |
| EARLY | | | | | | |
| Indian River Dist. | 9 | 1.21 | 9.49 | 7.95 | 46.68 | 4.42 |
| Other Areas | 111 | 1.07 | 9.26 | 8.79 | 48.54 | 4.49 |
| MIDSEASON | | | | | | |
| Indian River Dist. | 10 | 1.29 | 8.68 | 6.81 | 49.60 | 4.30 |
| Other Areas | 43 | 1.25 | 9.08 | 7.36 | 50.01 | 4.54 |
| LATE | | | | | | |
| Indian River Dist. | 23 | 2.37 | 8.54 | 3.67 | 46.71 | 4.00 |
| Other Areas | 121 | 2.45 | 8.65 | 3.57 | 46.47 | 4.02 |
| GRAPEFRUIT: | | | | | | |
| WHITE SEEDLESS | | | | | | |
| Indian River Dist. | 35 | 1.43 | 9.29 | 6.51 | 38.96 | 3.62 |
| Other Areas | 10 | 1.37 | 9.07 | 6.63 | 38.56 | 3.50 |
| COLORED SEEDLESS | | | | | | |
| Indian River Dist. | 38 | 1.38 | 9.44 | 6.89 | 40.38 | 3.82 |
| Other Areas | 10 | 1.34 | 9.46 | 7.14 | 39.91 | 3.77 |

ALL GRAPEFRUIT 15.0 MILLION BOXES

The forecast of grapefruit for certified utilization is 15.0 million boxes. This forecast is greatly reduced from previous seasons because of the effects of four hurricanes that hit the State's growing areas in August and September. Only the Southern area was not directly affected with Hendry, Collier, and Lee counties receiving primarily heavy rainfall amounts on several occasions. If realized, this forecast will be 63 percent less than last season's production.

| GRAPEFRUIT: 2003-04 production and a proration of the | |
|---|-------|
| 2004-05 forecasts based on fruit populations, by production are | as 1/ |

| Production Area | 2003 | 3-04 | 4-05 | |
|------------------|--------|---------|-------|---------|
| T TOduction Area | White | Colored | White | Colored |
| | | 1,000 | boxes | |
| Indian River | 11,200 | 16,800 | 1,400 | 3,600 |
| Southern | 1,400 | 4,500 | 1,500 | 5,300 |
| Other | 3,300 | 3,700 | 1,100 | 2,100 |
| | | | | |

^{1/} The possible differences between growing areas, concerning average fruit size, loss from droppage, and harvest patterns, can alter the prorated estimates.

The Indian River growing area was greatly affected by Hurricane Frances on September 5th and Hurricane Jeanne on September 29th. Both storms brought high winds and heavy rain which blew fruit off the trees, broke limbs, and split trees. Standing water in groves has caused softening of fruit and continued fruit droppage.

| forecasts by varieties and states, with comparisons | | | | | | | |
|--|--|--|--|---|--|--|--|
| Crop and State | | Production | | Forecast | | | |
| orop and otato | 2001-02 | 2002-03 | 2003-04 | 2004-05 | | | |
| GRAPEFRUIT: | | boxes | | | | | |
| FLORIDA-All White Colored Texas Arizona California | 46,700 18,900 27,800 5,900 160 5,900 | 38,700 16,200 22,500 5,650 130 5,600 | 40,900 15,900 25,000 5,700 140 5,400 | 15,000 4,000 11,000 5,900 200 5,200 | | | |
| Total Grapefruit | 58,660 | 50,080 | 52,140 | 26,300 | | | |
| LEMONS: | | | | | | | |
| California Arizona | 18,300 2,800 | 24,000 3,000 | 18,000 3,000 | 19,500 2,400 | | | |
| Total Lemons | 21,100 | 27,000 | 21,000 | 21,900 | | | |
| Limes: Florida | 150 | 1/ | 1/ | 1/ | | | |
| Temples: Florida | 1,550 | 1,300 | 1,400 | 800 | | | |
| Tangelos: Florida | 2,150 | 2,350 | 1,000 | 1,400 | | | |
| K-Early: Florida | 30 | 1/ | 1/ | 1/ | | | |
| TANGERINES: | | | | | | | |
| FLORIDA-All Early ^{2/} Honey California ^{3/} Arizona ^{3/} | 6,600 4,350 2,250 2,200 620 | 5,500 3,000 2,500 2,800 430 | 6,500 3,600 2,900 2,700 690 | 4,700 2,500 2,200 2,900 500 | | | |
| Total Tangerines | 9,420 | 8,730 | 9,890 | 8,100 | | | |

CITRUS PRODUCTION: October 1, 2004

No forecast

^{2/} 2001-02 -- Robinson, Fallglo, Sunburst, and Dancy varieties, Fallglo and Sunburst only beginning in 2002-03.

^{3/} Includes tangelos.

COMPONENTS USED IN THE OCTOBER FORECAST

| Туре | Bearing trees | Fruit per tree | Percent droppage | Fruit per box |
|--------------------------------|------------------|----------------------|---------------------|---------------------|
| | (1,000) | | | |
| White Grapefruit ^{1/} | 2,861 | 109 | 11 | 79 |
| Colored Grapefruit | 5,366 | 210 | 12 | 88 |
| 1/ | | | | |

^{1/} Seedless variety only.

This season's bearing tree numbers include trees planted in 2001 and earlier. Attrition rates, calculated using the 2002 and 2004 editions of the Commercial Citrus Inventory, were used as a guide to determine the rate to apply to last season's tree numbers. In addition, further reductions were made for losses from the hurricanes.

White grapefruit bearing tree numbers continue to decline although the number planted in 2001 was higher than in the previous four years. Estimated white seedless tree numbers used in the forecast model declined nine percent from last season to 2.861 million. Average fruit per tree is 109, down 78 percent from last season, due to the hurricanes. Many trees have very small amounts of fruit remaining and harvest of these blocks is in question. Fruit sizes at harvest are estimated near the same as last season, which is above average, but final sizes may be further affected by continuing rainfall and standing water. Droppage is estimated above average for the same reasons.

Colored grapefruit bearing tree numbers are estimated at 5.366 million, six percent less than last season. Although attrition rates of older trees continue to be high, the number of trees planted in 2001 was higher than in the previous seven years. Average fruit per tree is greatly reduced because of the hurricanes and, at 210 pieces per tree, is 58 percent less than last season. Colored grapefruit was less affected by the storms because of the many younger trees in this category. Average fruit sizes at harvest are estimated larger than last season, but weather conditions later in the season may affect the outcome of this projection. Droppage is estimated above average at 12 percent.

ALL TANGERINES 4.7 MILLION BOXES

The forecast of all tangerines at 4.7 million boxes is 28 percent less than produced last season (due to the hurricanes) and is the lowest production since the 1995-96 season. The forecast is comprised of the early varieties (Fallglo and Sunburst) at 2.5 million boxes and the Honey variety at 2.2 million.

Fallglo tangerines, the earliest maturing variety, comprises about 25 percent of the early category forecast. Bearing trees at 317,000 are down 10 percent from last season. Some trees were reported badly broken by the hurricanes. Average fruit per tree is reduced because of the storms, but fruit sizes are above average. Droppage is projected near the average of 14 percent. Limited harvest has started.

Sunburst tangerines comprise the majority of the early tangerine production. Bearing tree numbers are estimated at 1.277 million, down seven percent from last season. Trees were reported broken because of the storms. Fruit per tree at 503, a relatively high amount, was reduced by the storms. Fruit sizes are projected to be larger than average at harvest. Droppage is projected near average.

The Honey tangerine forecast of 2.2 million boxes is the smallest crop since the 2.05 million boxes produced in the 2000-01 season. A large portion of these trees are located in the Southern area and were not affected by the storms. Fruit sizes are projected to be slightly larger than average with droppage rates near normal as well.

FORECAST PROCEDURES FOR THE 2004-05 SEASON

All citrus forecasts except seedy grapefruit are based on actual fruit counts and measurements. These objective count methods utilize: (1) the bearing age tree population provided from the latest aerial photography with field verifications, (2) the average fruit per tree obtained from the fruit count survey using randomly selected trees and limbs, and (3) the fruit measurement and fruit drop count surveys to determine fruit sizes and loss from fruit droppage.

The latest Connercial Citrus Inventory is the base used to determine forecast tree numbers for this season. All trees planted in 2001 and earlier are included. An attrition factor by age and area was applied to these base numbers to account for tree losses since the inventory period. In addition an adjustment factor was applied to areas affected by the hurricanes to account for trees blown over, uprooted, and severely damaged.

The same unbiased fruit count procedures were used as in all of the past 47 seasons. Following the passage of Hurricane Charley on August 13th and Hurricane Frances on September 5th, recounts were conducted on a sub-sample of trees in the affected areas. Following the passage of Hurricane Jeanne on September 26th, subjective evaluations were conducted in each county affected to account for additional green fruit on the ground. An adjustment factor was then applied by fruit type, county, and age group of trees to reduce the average fruit per tree estimate.

Fruit size surveys were conducted in August and September. The fruit loss surveys (drop count) were begun in August and modified following the first two hurricanes. These surveys, along with historical records, were used to project the fruit size at harvest and the fruit population that is expected to remain on trees until harvest.

The chart below describes the relationship of the September 2004 early and midseason orange (excluding Navels) fruit size measurements with those taken in September 2003. The diameter measurements shown are the minimum values of each eighth inch range, except for the smallest values.

Fruit Size: Early and midseason oranges (excluding Navels) size frequency by diameter from September measurements.



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

FLORIDA CITRUS: Size frequency distributions from September measurements

| Type of fruit and size | 2002 | 2003 | 2004 |
|------------------------------|----------|--------------|------|
| in 4/5-bushel containers | Devee at | | |
| | | Percent - | |
| (excluding Navels) | | | |
| 64 and larger | 1 1 | 0.6 | 0.2 |
| 80 | 6.8 | 4.8 | 13 |
| 100 | 26.4 | 20.0 | 8.2 |
| 125 | 37.1 | 36.0 | 27.9 |
| 163 and smaller | 28.6 | 38.6 | 62.4 |
| NAVEL ORANGES: | _0.0 | | •=•• |
| 64 and larger | 31.4 | 44.3 | 19.7 |
| 80 | 37.9 | 35.3 | 34.6 |
| 100 | 22.7 | 15.2 | 31.5 |
| 125 | 6.8 | 4.3 | 11.4 |
| 163 and smaller | 1.2 | 0.9 | 2.8 |
| VALENCIA ORANGES: | | | |
| 64 and larger | 1.2 | 0.4 | 0.0 |
| 80 | 8.5 | 5.3 | 0.6 |
| 100 | 31.5 | 24.5 | 7.9 |
| 125 | 35.4 | 37.2 | 28.9 |
| 163 and smaller | 23.4 | 32.6 | 62.6 |
| WHITE SEEDLESS GRAPEFRUIT: | | | |
| 32 and larger | 10.0 | 7.9 | 3.1 |
| 36 | 15.0 | 9.8 | 8.1 |
| 40 | 22.6 | 16.8 | 14.0 |
| 48 | 20.4 | 21.7 | 19.1 |
| 56 | 12.8 | 13.2 | 16.9 |
| 63 and smaller | 19.2 | 30.6 | 38.8 |
| COLORED SEEDLESS GRAPEFRUIT: | | 4.0 | 0.0 |
| 32 and larger | 8.2 | 4.0 | 0.9 |
| 30 | 12.5 | 1.0 | 5.0 |
| 40 | 20.2 | 11.0 | 11.2 |
| 40 56 | 20.3 | 20.0 19.4 | 10.0 |
| 63 and smaller | 12.9 | 10.4 27.6 | 17.2 |
| EALL CLO TANGEDINES | 20.9 | 57.0 | 40.0 |
| 80 and larger | 41 1 | 24 5 | 19.0 |
| 100 | 25.6 | 24.0 41 4 | 54.0 |
| 120 | 17.2 | 12 7 | 22.0 |
| 176 | 7.2 | 6.8 | 3.0 |
| 210 and smaller | 8.9 | 14.6 | 2.0 |
| SUNBURST TANGERINES: | 0.0 | | |
| 100 and larger | 15.0 | 4.5 | 2.9 |
| 120 | 25.3 | 12.2 | 9.8 |
| 176 | 19.7 | 15.5 | 9.8 |
| 210 and smaller | 40.0 | 67.8 | 77.5 |
| TANGELOS: | | | |
| 80 and larger | 8.5 | 9.2 | 0.6 |
| 100 | 23.8 | 25.0 | 4.0 |
| 120 | 31.9 | 25.0 | 17.5 |
| 156 and smaller | 35.8 | 40.8 | 77.9 |