



**CITRUS** COMMERCIAL CITRUS INVENTORY  
PRELIMINARY REPORT

Cooperating with the Florida Department of Agriculture and Consumer Services  
851 Trafalgar Ct, Suite 310E, Maitland, FL 32751-4132  
(407) 648-6013 · (855) 271-9801 FAX · [www.nass.usda.gov/fl](http://www.nass.usda.gov/fl)

August 28, 2019

**All Citrus Acreage Down 4 Percent**

Results of the annual Commercial Citrus Inventory show total citrus acreage is 430,601 acres, down 4 percent from the last survey and the lowest in a series which began in 1966. The net loss of 16,411 acres is more than twice what was lost last season. New plantings at 10,068 acres are down 17 percent. All citrus trees, at 61.4 million, are down 2 percent from the previous season.

Of the 25 published counties included in the survey, 24 recorded decreases in acreage. Only Sarasota County showed an increase. For the second consecutive season, Indian River County lost the most acreage, down 3,520 acres from last year. Desoto County now has the most acres at 67,406 acres, surpassing Polk County which lead in citrus acreage the previous season.

**Orange** acreage declined to 392,515, down 3 percent from the previous season. The Western area has the most orange acreage at 124,909. The Central area has the second most with 123,852 acres. The Southern area now has 123,399 acres. The remaining two areas, the Northern and Indian River, combined have 20,355 orange acres. Valencia acreage accounts for 58 percent of the total orange acreage, non-Valencia acreage represents 41 percent, and the remaining orange acreage is unidentified.

**Grapefruit** acreage is now at 25,339 acres, down 18 percent from last season. White grapefruit (including seedy) is 17 percent of the total with 4,334 acres, while red grapefruit is 82 percent of the total with 20,805 acres, and the remaining grapefruit acreage is unidentified. The Indian River District has 70 percent of the total grapefruit acreage.

**Specialty fruit** acreage, at 12,747 acres is up 1 percent from last season. Tangelos account for 13 percent of the total. Early tangerines (Fallglo and Sunburst), comprise 21 percent, Royal tangerines account for 6 percent and Honey tangerines constitute 20 percent. Other tangerines account for 22 percent of the total specialty fruit acreage. The remaining specialty fruit acreage includes true lemons and other citrus acreage, with a total of 2,257 acres, or 18 percent.

**All Citrus Acreage, by Variety and Survey Year, and Changes Between Surveys – Florida: 1992-2019**

Survey <sup>1</sup> year	Oranges <sup>2</sup>  (acres)	Grapefruit  (acres)	Specialty <sup>2</sup> fruit  (acres)	Total  (acres)	Change		Net change  (acres)
					Gross loss  (acres)	New plantings  (acres)	
1992 .....	608,636	135,166	47,488	791,290	74,704	133,227	+58,523
1994 .....	653,370	146,915	53,457	853,742	45,214	107,666	+62,452
1996 .....	656,598	144,416	56,673	857,687	35,947	39,892	+3,945
1998 .....	658,390	132,817	54,053	845,260	49,325	36,898	-12,427
2000 .....	665,529	118,145	48,601	832,275	59,516	46,531	-12,985
2002 .....	648,806	105,488	43,009	797,303	77,197	42,225	-34,972
2004 .....	622,821	89,048	36,686	748,555	88,875	40,127	-48,748
2006 <sup>3</sup> .....	529,241	63,419	28,713	621,373	150,805	23,623	-127,182
2008 .....	496,518	56,881	23,178	576,577	66,924	22,128	-44,796
2009 .....	492,529	53,863	22,422	568,814	19,918	12,155	-7,763
2010 .....	483,418	50,189	20,430	554,037	25,109	10,332	-14,777
2011 .....	473,086	48,990	19,252	541,328	21,769	9,060	-12,709
2012 .....	464,918	48,191	18,384	531,493	19,383	9,548	-9,385
2013 .....	459,311	47,656	17,673	524,640	15,115	8,262	-6,853
2014 .....	452,364	45,922	16,861	515,147	21,041	11,548	-9,493
2015 .....	441,628	43,962	15,806	501,396	26,094	12,343	-13,751
2016 .....	425,728	40,316	14,077	480,121	31,365	10,090	-21,275
2017 .....	405,832	36,084	13,057	454,973	36,863	11,715	-25,148
2018 <sup>3</sup> .....	403,457	30,923	12,632	447,012	20,114	12,153	-7,961
2019 .....	392,515	25,339	12,747	430,601	26,479	10,068	-16,411

<sup>1</sup> One year survey beginning in 2009.

<sup>2</sup> Temples in specialty fruit through 2006 survey, then included in oranges through 2016 survey. Reclassified as Royal tangerines in the 2017 survey.

<sup>3</sup> August and September hurricanes in 2004. October hurricane in 2005. October hurricane in 2017.

### All Citrus Acreage, by Variety and Year Set – Florida: Crop Year 2018-2019

Year set	All citrus	Oranges					Grapefruit		
		Early non-Valencia	Midseason non-Valencia	Valencia	Unidentified	Total	Red Seedless	White Seedless	Seedy
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
Pre-1975 .....	10,571	2,429	1,274	4,525	-	8,228	1,161	733	45
1975-1984 .....	19,079	8,083	844	6,718	-	15,645	3,250	93	6
1985-1994 .....	131,013	40,078	4,370	72,239	-	116,687	8,166	2,744	74
1995-1997 .....	22,705	6,198	885	14,689	-	21,772	279	(D)	(D)
1998-2000 .....	32,614	10,042	1,246	20,312	-	31,600	522	89	7
2001-2003 .....	32,362	13,004	1,551	16,469	-	31,024	722	126	9
2004-2006 .....	26,630	11,420	911	13,074	-	25,405	859	(D)	(D)
2007-2009 .....	30,657	12,649	1,492	15,122	-	29,263	1,073	56	3
2010-2012 .....	34,508	12,582	1,885	16,678	10	31,155	2,177	77	-
2013-2015 .....	47,888	16,887	1,688	24,203	617	43,395	2,146	(D)	-
<b>Bearing.....</b>	<b>388,027</b>	<b>133,372</b>	<b>16,146</b>	<b>204,029</b>	<b>627</b>	<b>354,174</b>	<b>20,355</b>	<b>4,168</b>	<b>(D)</b>
2016.....	17,503	4,751	355	9,504	1,474	16,084	154	(D)	-
2017.....	15,003	2,338	387	8,437	2,016	13,178	202	(D)	-
2018.....	10,068	2,107	208	5,341	1,423	9,079	94	(D)	-
<b>Non-bearing.....</b>	<b>42,574</b>	<b>9,196</b>	<b>950</b>	<b>23,282</b>	<b>4,913</b>	<b>38,341</b>	<b>450</b>	<b>20</b>	<b>-</b>
<b>Total.....</b>	<b>430,601</b>	<b>142,568</b>	<b>17,096</b>	<b>227,311</b>	<b>5,540</b>	<b>392,515</b>	<b>20,805</b>	<b>4,188</b>	<b>(D)</b>

See footnote(s) at end of table.

--continued

### All Citrus Trees, by Variety and Year Set – Florida: Crop Year 2018-2019

Year set	All citrus	Oranges					Grapefruit		
		Early non-Valencia	Midseason non-Valencia	Valencia	Unidentified	Total	Red Seedless	White Seedless	Seedy
	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)
Pre-1975.....	1,214.8	284.8	157.8	551.6	-	994.2	103.0	66.8	4.3
1975-1984.....	2,285.1	981.3	113.7	839.1	-	1,934.1	330.1	9.7	0.6
1985-1994.....	18,877.9	5,644.7	645.1	10,728.4	-	17,018.2	1,005.1	324.3	7.4
1995-1997.....	3,193.4	842.9	121.3	2,105.3	-	3,069.5	29.7	(D)	(D)
1998-2000.....	4,319.6	1,314.1	169.2	2,705.9	-	4,189.2	64.1	9.4	0.8
2001-2003.....	4,222.4	1,693.3	218.3	2,156.5	-	4,068.1	79.7	13.1	0.9
2004-2006.....	3,400.9	1,446.4	119.8	1,682.7	-	3,248.9	101.5	(D)	(D)
2007-2009.....	4,141.9	1,692.9	201.6	2,076.0	-	3,970.5	126.6	5.2	0.3
2010-2012.....	4,890.3	1,796.2	284.4	2,339.0	1.4	4,421.0	276.9	8.7	-
2013-2015.....	7,582.2	2,592.3	245.2	3,861.9	95.5	6,794.9	311.0	(D)	-
<b>Bearing.....</b>	<b>54,128.5</b>	<b>18,288.9</b>	<b>2,276.4</b>	<b>29,046.4</b>	<b>96.9</b>	<b>49,708.6</b>	<b>2,427.7</b>	<b>464.0</b>	<b>(D)</b>
2016.....	3,036.9	820.0	52.8	1,697.1	222.7	2,792.6	19.0	(D)	-
2017.....	2,570.3	360.1	66.4	1,424.9	328.0	2,179.4	33.4	(D)	-
2018.....	1,628.7	296.7	28.8	877.1	251.4	1,454.0	19.0	(D)	-
<b>Non-bearing.....</b>	<b>7,235.9</b>	<b>1,476.8</b>	<b>148.0</b>	<b>3,999.1</b>	<b>802.1</b>	<b>6,426.0</b>	<b>71.4</b>	<b>3.5</b>	<b>-</b>
<b>Total.....</b>	<b>61,364.4</b>	<b>19,765.7</b>	<b>2,424.4</b>	<b>33,045.5</b>	<b>899.0</b>	<b>56,134.6</b>	<b>2,499.1</b>	<b>467.5</b>	<b>(D)</b>

See footnote(s) at end of table.

--continued

### All Citrus Acreage, by Variety and Year Set – Florida: Crop Year 2018-2019 (continued)

Year set	Grapefruit		Tangerines						Tangelos	Other Citrus
	Unidentified	Total	Fallglo <sup>1</sup>	Sunburst	Royal	Honey	Other	Total		
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
Pre-1975 .....	-	1,939	-	-	262	(D)	(D)	328	(D)	(D)
1975-1984 .....	-	3,349	-	(D)	21	(D)	(D)	62	(D)	(D)
1985-1994 .....	-	10,984	417	614	322	1,054	222	2,629	596	117
1995-1997 .....	-	406	56	44	46	230	9	385	59	83
1998-2000 .....	-	618	23	31	28	200	7	289	76	31
2001-2003 .....	-	857	8	(D)	39	129	(D)	202	176	103
2004-2006 .....	-	900	15	29	17	109	14	184	115	26
2007-2009 .....	-	1,132	30	(D)	7	90	(D)	164	36	62
2010-2012 .....	-	2,254	117	61	8	149	316	651	207	241
2013-2015 .....	(D)	2,245	304	156	5	316	1,021	1,802	212	234
<b>Bearing</b> .....	<b>(D)</b>	<b>24,684</b>	<b>970</b>	<b>999</b>	<b>755</b>	<b>2,369</b>	<b>1,603</b>	<b>6,696</b>	<b>1,575</b>	<b>898</b>
2016 .....	(D)	184	221	(D)	(D)	150	488	900	20	315
2017 .....	(D)	234	374	31	-	33	491	929	14	648
2018 .....	(D)	237	31	(D)	(D)	33	260	343	13	396
<b>Non-bearing</b> .....	<b>185</b>	<b>655</b>	<b>626</b>	<b>77</b>	<b>14</b>	<b>216</b>	<b>1,239</b>	<b>2,172</b>	<b>47</b>	<b>1,359</b>
<b>Total</b> .....	<b>(D)</b>	<b>25,339</b>	<b>1,596</b>	<b>1,076</b>	<b>769</b>	<b>2,585</b>	<b>2,842</b>	<b>8,868</b>	<b>1,622</b>	<b>2,257</b>

- Represents zero.

D Withheld to avoid disclosing data for individual operations.

<sup>1</sup> Includes Early Pride tangerines.

### All Citrus Trees, by Variety and Year Set – Florida: Crop Year 2018-2019 (continued)

Year set	Grapefruit		Tangerines						Tangelos	Other Citrus
	Unidentified	Total	Fallglo <sup>1</sup>	Sunburst	Royal	Honey	Other	Total		
	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)
Pre-1975 .....	-	174.1	-	-	30.1	(D)	(D)	38.0	(D)	(D)
1975-1984 .....	-	340.4	-	(D)	2.0	(D)	(D)	8.3	(D)	(D)
1985-1994 .....	-	1,336.8	70.8	101.9	41.8	180.7	33.3	428.5	77.9	16.5
1995-1997 .....	-	43.9	9.8	7.5	6.0	34.9	1.6	59.8	8.0	12.2
1998-2000 .....	-	74.3	4.0	4.8	3.7	28.1	1.2	41.8	9.8	4.5
2001-2003 .....	-	93.7	1.6	(D)	5.1	16.0	(D)	26.2	21.9	12.5
2004-2006 .....	-	105.4	2.1	4.4	2.4	16.9	2.0	27.8	14.3	4.5
2007-2009 .....	-	132.1	4.3	(D)	0.6	13.7	(D)	23.6	4.2	11.5
2010-2012 .....	-	285.6	21.2	9.0	1.0	24.0	60.5	115.7	28.7	39.3
2013-2015 .....	(D)	322.4	104.4	25.1	0.6	53.5	214.9	398.5	30.8	35.6
<b>Bearing</b> .....	<b>(D)</b>	<b>2,908.7</b>	<b>218.2</b>	<b>161.7</b>	<b>93.3</b>	<b>379.9</b>	<b>315.1</b>	<b>1,168.2</b>	<b>206.1</b>	<b>136.9</b>
2016 .....	(D)	22.9	39.9	(D)	(D)	24.2	101.4	173.2	2.7	45.5
2017 .....	(D)	39.5	104.0	6.0	-	6.2	128.3	244.5	1.6	105.3
2018 .....	(D)	37.3	6.7	(D)	(D)	4.0	62.3	75.9	2.1	59.4
<b>Non-bearing</b> .....	<b>24.8</b>	<b>99.7</b>	<b>150.6</b>	<b>13.9</b>	<b>2.7</b>	<b>34.4</b>	<b>292.0</b>	<b>493.6</b>	<b>6.4</b>	<b>210.2</b>
<b>Total</b> .....	<b>(D)</b>	<b>3,008.4</b>	<b>368.8</b>	<b>175.6</b>	<b>96.0</b>	<b>414.3</b>	<b>607.1</b>	<b>1,661.8</b>	<b>212.5</b>	<b>347.1</b>

- Represents zero.

D Withheld to avoid disclosing data for individual operations.

<sup>1</sup> Includes Early Pride tangerines.

## All Citrus Acreage and Trees, by County and Year of Inventory – Florida: 2016-2019

County	2016	2017	2018	2019	2016	2017	2018	2019
	(acres)	(acres)	(acres)	(acres)	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)
Brevard.....	2,055	890	771	360	257.2	118.7	106.7	47.6
Charlotte.....	13,655	14,538	14,674	14,448	1,963.6	2,179.7	2,299.4	2,301.5
Collier.....	29,253	29,310	30,752	30,462	4,317.2	4,330.2	4,550.7	4,509.8
DeSoto.....	66,672	67,610	67,604	67,406	8,973.3	9,188.8	9,308.7	9,427.8
Glades.....	6,163	6,073	5,490	5,463	877.2	862.9	783.6	781.5
Hardee.....	44,476	42,813	44,347	43,761	5,692.5	5,551.9	5,849.5	5,805.6
Hendry.....	64,575	64,834	64,226	61,656	9,955.2	10,057.1	9,985.0	9,653.7
Hernando.....	693	489	437	352	84.8	60.4	52.8	44.8
Highlands.....	57,921	54,244	58,829	57,964	7,651.8	7,258.0	8,514.0	8,536.7
Hillsborough.....	3,963	3,653	3,038	2,518	514.6	476.6	401.1	339.9
Indian River.....	26,218	23,761	19,228	15,708	3,060.5	2,784.9	2,358.0	2,030.7
Lake.....	8,766	7,342	6,567	6,083	1,264.4	1,073.4	966.0	908.7
Lee.....	10,267	10,263	9,369	9,107	1,398.8	1,397.3	1,276.6	1,236.7
Manatee.....	16,231	15,666	14,658	13,392	2,110.7	2,029.8	1,960.2	1,859.2
Marion.....	1,047	1,043	986	972	125.0	125.0	123.3	120.7
Martin.....	2,530	2,126	1,995	1,289	447.0	385.0	361.7	244.5
Okeechobee.....	6,000	4,320	3,664	3,597	750.8	565.7	529.4	524.5
Orange.....	1,993	1,300	1,130	992	248.1	170.0	150.2	135.6
Osceola.....	8,172	8,089	6,925	6,685	1,033.0	1,023.6	887.5	868.0
Pasco.....	3,722	1,928	1,900	1,276	531.3	279.2	273.0	175.5
Polk.....	76,455	69,950	67,770	66,969	9,544.7	8,951.1	8,827.5	8,991.7
St. Lucie.....	26,744	22,355	20,562	18,124	3,615.6	3,057.2	2,842.3	2,570.6
Sarasota.....	1,173	1,134	1,047	1,118	143.1	139.4	129.0	138.2
Seminole.....	354	319	307	302	44.1	41.5	40.3	39.9
Volusia.....	784	703	570	514	86.9	81.1	65.6	59.1
Other Counties <sup>1</sup> .....	239	220	166	83	31.6	28.8	21.9	11.9
<b>Total.....</b>	<b>480,121</b>	<b>454,973</b>	<b>447,012</b>	<b>430,601</b>	<b>64,723.0</b>	<b>62,217.3</b>	<b>62,664.0</b>	<b>61,364.4</b>

<sup>1</sup> Includes Citrus and Putnam in 2016 and 2019; includes Alachua, Citrus and Putnam in 2017 and 2018.

## All Citrus Acreage and Trees, by Variety and Year of Inventory – Florida: 2016-2019

Variety	2016	2017	2018	2019	2016	2017	2018	2019
	(acres)	(acres)	(acres)	(acres)	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)
<b>Oranges:</b>								
Hamlin.....	141,004	134,779	131,027	127,464	18,825.0	18,271.2	18,020.4	17,661.5
Parson Brown.....	6,875	5,783	5,271	4,987	923.0	778.5	720.9	690.1
Navel.....	8,295	7,758	7,482	7,270	1,096.2	1,057.6	1,043.8	1,026.8
Ambersweet.....	608	361	203	140	82.0	48.9	29.3	20.6
Other early non-Valencia....	2,961	2,862	2,717	2,707	389.4	381.9	364.3	366.7
Pineapple.....	14,695	13,515	12,496	11,495	1,928.9	1,793.4	1,696.1	1,595.5
Other mid non-Valencia.....	6,324	5,898	5,788	5,601	895.7	841.6	840.9	828.9
Temples.....	1,115	(X)	(X)	(X)	131.3	(X)	(X)	(X)
<b>Non-Valencia.....</b>	<b>181,877</b>	<b>170,956</b>	<b>164,984</b>	<b>159,664</b>	<b>24,271.5</b>	<b>23,173.1</b>	<b>22,715.7</b>	<b>22,190.1</b>
Valencia.....	232,285	225,770	229,863	227,311	31,917.3	31,468.7	32,933.8	33,045.5
Unidentified.....	11,566	9,106	8,610	5,540	1,763.3	1,380.5	1,371.8	899.0
<b>Total Oranges.....</b>	<b>425,728</b>	<b>405,832</b>	<b>403,457</b>	<b>392,515</b>	<b>57,952.1</b>	<b>56,022.3</b>	<b>57,021.3</b>	<b>56,134.6</b>
<b>Grapefruit:</b>								
Seedy.....	436	345	156	146	41.7	33.7	15.6	14.5
Red seedless.....	30,244	27,360	24,179	20,805	3,523.7	3,183.1	2,861.1	2,499.1
White seedless.....	9,206	7,873	6,181	4,188	946.9	808.4	652.8	467.5
Unidentified.....	450	506	407	200	69.7	91.4	68.4	27.3
<b>Total Grapefruit.....</b>	<b>40,316</b>	<b>36,084</b>	<b>30,923</b>	<b>25,339</b>	<b>4,582.0</b>	<b>4,116.6</b>	<b>3,597.9</b>	<b>3,008.4</b>
<b>Specialty:</b>								
<b>Tangelos:</b>								
Orlando Tangelos.....	1,264	825	628	463	178.0	119.3	90.4	67.0
Minneola Tangelos.....	1,237	1,296	1,254	1,159	154.1	160.9	158.1	145.5
Other Tangelos.....	122	98	(X)	(X)	18.7	15.1	(X)	(X)
<b>Total Tangelos.....</b>	<b>2,623</b>	<b>2,219</b>	<b>1,882</b>	<b>1,622</b>	<b>350.8</b>	<b>295.3</b>	<b>248.5</b>	<b>212.5</b>
<b>Tangerines:</b>								
Fallglo Tangerines <sup>1</sup> .....	1,174	991	911	1,596	189.5	161.5	153.5	368.8
Sunburst Tangerines.....	3,288	2,043	1,519	1,076	496.5	316.9	239.9	175.6
Royal Tangerines.....	(X)	877	821	769	(X)	105.4	100.2	96.0
Honey Tangerines.....	4,337	3,973	3,211	2,585	671.4	616.7	495.4	414.3
Other Tangerines <sup>2</sup> .....	(X)	(X)	2,943	2,842	(X)	(X)	615.5	607.1
<b>Total Tangerines.....</b>	<b>8,799</b>	<b>7,884</b>	<b>9,405</b>	<b>8,868</b>	<b>1,357.4</b>	<b>1,200.5</b>	<b>1,604.5</b>	<b>1,661.8</b>
<b>Total Tangerines and Tangelos.....</b>	<b>11,422</b>	<b>10,103</b>	<b>11,287</b>	<b>10,490</b>	<b>1,708.2</b>	<b>1,495.8</b>	<b>1,853.0</b>	<b>1,874.3</b>
True Lemons.....	95	125	124	214	12.7	15.9	15.8	32.3
Other Citrus <sup>3</sup> .....	2,560	2,829	1,221	2,043	468.0	566.7	176.0	314.8
<b>Total Specialty.....</b>	<b>14,077</b>	<b>13,057</b>	<b>12,632</b>	<b>12,747</b>	<b>2,188.9</b>	<b>2,078.4</b>	<b>2,044.8</b>	<b>2,221.4</b>
<b>Total Citrus.....</b>	<b>480,121</b>	<b>454,973</b>	<b>447,012</b>	<b>430,601</b>	<b>64,723.0</b>	<b>62,217.3</b>	<b>62,664.0</b>	<b>61,364.4</b>

X Not applicable.

<sup>1</sup> Includes Early Pride Tangerines beginning in 2019.

<sup>2</sup> Includes Autumn Honey, Juicy Crunch, Orri, Robinson, Roe, Tango and other minor tangerine varieties.

<sup>3</sup> Includes Meyer lemons.

## All Citrus Acreage, by Production Area and Year of Inventory – Florida: 2018-2019

Production Area	Oranges		Grapefruit		Specialty		Total	
	2018	2019	2018	2019	2018	2019	2018	2019
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
Indian River .....	13,420	11,537	22,562	17,738	2,728	3,423	38,710	32,698
Northern .....	10,083	8,818	498	451	1,373	1,202	11,954	10,471
Central.....	125,422	123,852	2,277	1,989	3,854	3,839	131,553	129,680
Western.....	127,676	124,909	1,033	1,049	1,985	2,237	130,694	128,195
Southern.....	126,856	123,399	4,553	4,112	2,692	2,046	134,101	129,557
<b>Total .....</b>	<b>403,457</b>	<b>392,515</b>	<b>30,923</b>	<b>25,339</b>	<b>12,632</b>	<b>12,747</b>	<b>447,012</b>	<b>430,601</b>

### Citrus Inventory Procedures

This publication represents the results of the most recent annual Commercial Citrus Inventory survey of Florida citrus trees. The Florida Agricultural Statistics Service first began indexing citrus groves using aerial photography with the January 1966 survey. Subsequent surveys, using aerial photography, were conducted as of January every two years through 2006. In 2005, grove boundaries were digitized and saved as geodatabases in our Geographic Information System (GIS). GIS software provides tools to enhance comparative photo interpretation for grove change detection. This technology provides current tree inventory data for evaluating Florida's potential citrus production in a shorter period of time and at less cost than by ground survey methods alone.

Each change observed by the photo interpreter is followed by a ground check which usually results in a revised tree count for the grove. Acreages can be verified using the GIS. Tree numbers are from actual tree counts or from measured acreage. Block sizes are reduced as necessary for dead trees or empty spaces, as well as barnyards, turn rows, swale ditches, and irrigation ponds.

A record for each separate planting or block is maintained in the data system. A new record is created for each new planting, and records of plantings which no longer exist are transferred to an inactive layer. For this inventory period, 55 percent of the state's total citrus acreage was visited to update the records.

Production areas were redesigned in 1986 to give greater efficiency for objective forecasting purposes. The principal change was to place all the northern freeze-prone regions in a single area and to set apart the southern flatwoods plantings. The Indian River District follows the boundary of the Indian River Marketing District. This stratification provides greater homogeneity within each sampling stratum.

