



CITRUS COMMERCIAL CITRUS INVENTORY
PRELIMINARY REPORT

Cooperating with the Florida Department of Agriculture & Consumer Services
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All Citrus Acreage Down 2 Percent

Results of the annual Commercial Citrus Inventory show total citrus acreage is 531,493, down almost 2 percent from the last survey and the lowest in a series which began in 1966. Orange, grapefruit, and specialty acreage also set new lows in the series. Compared to the previous inventory, the net decrease of 9,385 acres is less with a lower gross loss (19,383) and more new plantings (9,548). Of the 29 counties included in the survey, 24 recorded decreases in acreage, and 5 showed increases. Martin County, down 2,863 acres, has suffered the greatest loss for four straight years and has been declining since 1994. Desoto County has recorded gains in the last 5 surveys and this year's gain of 1,011 is the most of any county. Polk remains the leader in acreage with 82,572 and trees with 9.9 million.

Orange acreage declined for the eighth consecutive survey to 464,918, down 2 percent from the previous survey. Only the Western Area showed an increase in orange acreage. Valencias comprise 56 percent of the total orange trees, non-Valencias account for 43 percent, with the unidentified trees as the remainder. Bearing trees comprise 93 percent of the total orange trees, similar to recent years.

Grapefruit acreage fell 2 percent from the last survey to 48,191, a 54 percent reduction in the last decade. The combined white and colored seedless varieties lost 756 acres since the previous inventory. Only the Southern Area showed an increase in grapefruit acreage. The Indian River District still holds 75 percent of the total grapefruit acreage even after losing more than 560 acres.

Specialty acreage continued to decline and is down 5 percent from the last survey at 18,384. All tangerine acreage fell 4 percent to 12,552. Honey tangerines account for 49 percent of the tangerine total with 6,135 acres. Despite losses, Sunburst acreage is 79 percent of the early tangerine total with 5,080, while Fallglo is down to 1,337. Tangelo acreage decreased 5 percent to 4,173. Over 57 percent of the specialty acreage is located in the Central and Southern areas.

All Citrus: Acreage, by Variety and Survey Year, and Changes Between Surveys – Florida

Survey year	Oranges (acres)	Grapefruit (acres)	Specialty fruit (acres)	Total (acres)	Change ³		Net change (acres)	Total (acres)
					Gross loss (acres)	New plantings (acres)		
1976	628,567	137,909	85,893	852,369	40,518	28,789	-11,729	852,369
1978 ¹	616,020	136,342	78,873	831,235	49,127	27,993	-21,134	831,235
1980	627,174	139,944	78,165	845,283	25,925	39,973	+14,048	845,283
1982 ¹	636,864	139,939	71,053	847,856	51,942	54,515	+2,573	847,856
1984 ¹	573,991	134,680	52,694	761,365	159,719	73,228	-86,491	761,365
1986 ¹	466,252	117,845	40,395	624,492	185,598	48,725	-136,873	624,492
1988	536,737	119,606	41,586	697,929	52,240	125,677	+73,437	697,929
1990 ¹	564,809	125,300	42,658	732,767	85,858	120,696	+34,838	732,767
1992	608,636	135,166	47,488	791,290	74,704	133,227	+58,523	791,290
1994	653,370	146,915	53,457	853,742	45,214	107,666	+62,452	853,742
1996	656,598	144,416	56,673	857,687	35,947	39,892	+3,945	857,687
1998	658,390	132,817	54,053	845,260	49,325	36,898	-12,427	845,260
2000	665,529	118,145	48,601	832,275	59,516	46,531	-12,985	832,275
2002	648,806	105,488	43,009	797,303	77,197	42,225	-34,972	797,303
2004 ²	622,821	89,048	36,686	748,555	88,875	40,127	-48,748	748,555
2006 ²	529,241	63,419	28,713	621,373	150,805	23,623	-127,182	621,373
2008	496,518	56,881	23,178	576,577	66,924	22,128	-44,796	576,577
2009	492,529	53,863	22,422	568,814	19,918	12,155	-7,763	568,814
2010	483,418	50,189	20,430	554,037	25,109	10,332	-14,777	554,037
2011	473,086	48,990	19,252	541,328	21,769	9,060	-12,709	541,328
2012	464,918	48,191	18,384	531,493	19,383	9,548	-9,385	531,493

¹ January freezes in 1977, 1981, 1982, 1985, and 1986. December freezes in 1983, 1985, and 1989.

² August and September hurricanes in 2004, October hurricane in 2005.

³ One year change beginning in 2009.

All Citrus: Acreage, by Variety and Year Set, Crop Year 2011-2012

Year set	All citrus	Oranges						Tangelos	Other citrus
		Early	Midseason	Temples	Late	Unidentified	Total		
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
Pre-1968.....	24,852	6,667	3,356	647	10,547	-	21,217	552	36
1968-1977.....	15,564	2,386	1,520	53	5,239	-	9,198	78	19
1978-1987.....	83,749	34,225	3,398	183	35,113	-	72,919	523	138
1988-1990.....	88,951	26,708	2,783	247	45,123	1	74,862	1,031	382
1991-1993.....	81,800	23,873	3,945	116	40,577	4	68,515	942	444
1994-1996.....	30,588	9,238	1,297	79	16,623	-	27,237	214	167
1997-1999.....	48,319	12,680	2,576	73	30,012	-	45,341	217	139
2000-2002.....	46,158	17,559	2,722	61	22,792	20	43,154	215	145
2003-2005.....	39,992	17,234	1,885	43	17,391	27	36,580	259	83
2006-2008.....	36,896	14,719	1,711	6	16,412	1,637	34,485	89	79
Bearing.....	496,869	165,289	25,193	1,508	239,829	1,689	433,508	4,120	1,632
2009.....	13,302	4,792	607	-	5,071	1,467	11,937	25	24
2010.....	11,774	3,580	383	-	4,968	1,598	10,529	8	1
2011.....	9,548	3,333	416	1	3,826	1,368	8,944	20	2
Non-bearing.....	34,624	11,705	1,406	1	13,865	4,433	31,410	53	27
Total.....	531,493	176,994	26,599	1,509	253,694	6,122	464,918	4,173	1,659

See footnote(s) at end of table.

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All Citrus: Trees, by Variety and Year Set, Crop Year 2011-2012

Year set	All citrus	Oranges						Tangelos	Other citrus
		Early	Midseason	Temples	Late	Unidentified	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-1968.....	2,464.7	661.3	348.5	68.6	1,073.7	-	2,152.1	48.9	3.8
1968-1977.....	1,680.1	282.7	186.7	5.2	620.5	-	1,095.1	8.7	2.9
1978-1987.....	10,424.8	4,254.5	427.0	22.2	4,531.1	-	9,234.8	64.5	18.2
1988-1990.....	12,719.8	3,808.1	390.4	32.3	6,697.7	0.1	10,928.6	145.1	62.3
1991-1993.....	11,488.7	3,283.4	558.5	13.9	5,873.9	0.6	9,730.3	126.2	68.1
1994-1996.....	4,300.2	1,239.6	175.6	10.2	2,430.9	-	3,856.3	33.3	25.0
1997-1999.....	6,369.5	1,658.5	341.7	9.5	3,975.5	-	5,985.2	28.2	19.4
2000-2002.....	5,874.9	2,225.4	368.3	7.7	2,919.6	3.5	5,524.5	27.0	19.4
2003-2005.....	4,965.9	2,130.6	230.0	5.2	2,188.0	3.7	4,557.5	33.7	11.7
2006-2008.....	4,693.4	1,834.0	214.8	0.8	2,128.9	217.5	4,396.0	11.8	9.5
Bearing.....	64,982.0	21,378.1	3,241.5	175.6	32,439.8	225.4	57,460.4	527.4	240.3
2009.....	1,761.0	669.8	76.0	-	668.9	189.4	1,604.1	3.2	2.9
2010.....	1,548.8	477.9	50.7	-	641.9	202.9	1,373.4	0.7	0.3
2011.....	1,273.6	460.5	54.1	0.1	499.4	188.1	1,202.2	2.4	0.3
Non-bearing.....	4,583.4	1,608.2	180.8	0.1	1,810.2	580.4	4,179.7	6.3	3.5
Total.....	69,565.4	22,986.3	3,422.3	175.7	34,250.0	805.8	61,640.1	533.7	243.8

See footnote(s) at end of table.

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All Citrus: Acreage, by Variety and Year Set, Crop Year 2011-2012 (continued)

Year set	Grapefruit					Tangerines				
	White seedless	Colored seedless	Seedy	Unidentified	Total	Fallglo	Sunburst	Early ¹	Honey	Total
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
Pre-1968	2,046	555	139	-	2,740	-	-	-	307	307
1968-1977	2,240	3,910	68	-	6,218	-	-	-	51	51
1978-1987	806	7,889	125	-	8,820	8	604	612	737	1,349
1988-1990	3,792	6,176	55	-	10,023	328	1,455	1,783	870	2,653
1991-1993	1,541	6,340	63	-	7,944	631	1,998	2,629	1,326	3,955
1994-1996	789	981	10	-	1,780	122	252	374	816	1,190
1997-1999	625	923	20	-	1,568	90	222	312	742	1,054
2000-2002	563	1,353	24	-	1,940	51	139	190	514	704
2003-2005	416	2,168	4	-	2,588	29	152	181	301	482
2006-2008	213	1,595	11	39	1,858	27	108	135	250	385
Bearing	13,031	31,890	519	39	45,479	1,286	4,930	6,216	5,914	12,130
2009	24	1,026	-	113	1,163	25	52	77	76	153
2010	23	875	26	162	1,086	14	37	51	99	150
2011	21	344	-	98	463	12	61	73	46	119
Non-bearing	68	2,245	26	373	2,712	51	150	201	221	422
Total	13,099	34,135	545	412	48,191	1,337	5,080	6,417	6,135	12,552

- Represents zero.

¹ Fallglo and Sunburst varieties.

All Citrus: Trees, by Variety and Year Set, Crop Year 2011-2012 (continued)

Year set	Grapefruit					Tangerines				
	White seedless	Colored seedless	Seedy	Unidentified	Total	Fallglo	Sunburst	Early ¹	Honey	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-1968	165.5	47.4	12.8	-	225.7	-	-	-	34.2	34.2
1968-1977	201.1	360.1	6.5	-	567.7	-	-	-	5.7	5.7
1978-1987	81.6	827.8	11.7	-	921.1	2.1	80.8	82.9	103.3	186.2
1988-1990	435.4	717.7	5.2	-	1,158.3	53.5	225.6	279.1	146.4	425.5
1991-1993	172.2	784.6	6.0	-	962.8	98.0	299.2	397.2	204.1	601.3
1994-1996	84.6	108.3	0.7	-	193.6	20.1	40.5	60.6	131.4	192.0
1997-1999	63.6	108.3	1.8	-	173.7	13.5	31.9	45.4	117.6	163.0
2000-2002	57.0	150.3	2.0	-	209.3	7.7	17.5	25.2	69.5	94.7
2003-2005	44.1	255.2	0.3	-	299.6	4.3	20.9	25.2	38.2	63.4
2006-2008	23.4	194.8	1.0	3.6	222.8	3.9	14.2	18.1	35.2	53.3
Bearing	1,328.5	3,554.5	48.0	3.6	4,934.6	203.1	730.6	933.7	885.6	1,819.3
2009	2.3	114.0	-	13.0	129.3	3.9	6.9	10.8	10.7	21.5
2010	2.8	129.9	2.5	21.0	156.2	2.2	4.5	6.7	11.5	18.2
2011	1.9	40.0	-	10.3	52.2	1.8	8.2	10.0	6.5	16.5
Non-bearing	7.0	283.9	2.5	44.3	337.7	7.9	19.6	27.5	28.7	56.2
Total	1,335.5	3,838.4	50.5	47.9	5,272.3	211.0	750.2	961.2	914.3	1,875.5

- Represents zero.

¹ Fallglo and Sunburst varieties.

All Citrus: Acreage and Trees, by County and Year of Inventory

County	2009	2010	2011	2012	2009	2010	2011	2012
	(acres)	(acres)	(acres)	(acres)	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)
Brevard.....	3,622	3,691	3,430	3,330	410.4	422.9	396.7	387.3
Charlotte.....	12,098	12,258	12,607	13,071	1,716.1	1,741.6	1,796.2	1,869.7
Collier.....	31,247	30,366	30,078	30,780	4,579.5	4,443.5	4,406.1	4,503.3
DeSoto.....	62,304	62,508	63,247	64,258	8,304.5	8,334.6	8,435.5	8,595.2
Glades.....	9,090	8,571	8,433	8,149	1,389.7	1,285.7	1,265.9	1,240.9
Hardee.....	47,130	46,921	47,121	46,792	5,714.6	5,701.2	5,749.9	5,726.8
Hendry.....	66,821	66,814	64,797	63,792	10,038.6	10,019.9	9,723.1	9,553.4
Hernando.....	917	906	813	800	104.2	103.3	88.2	88.1
Highlands.....	62,443	62,440	62,301	61,525	8,018.5	8,044.0	8,004.2	7,898.3
Hillsborough.....	10,946	9,677	8,715	8,023	1,236.8	1,103.3	1,009.9	938.6
Indian River.....	38,377	35,497	34,899	32,820	4,204.0	3,843.2	3,781.6	3,592.3
Lake.....	12,884	12,397	11,903	11,060	1,797.3	1,729.3	1,680.4	1,577.4
Lee.....	10,477	10,511	10,490	10,589	1,433.1	1,436.4	1,429.5	1,444.6
Manatee.....	18,609	18,400	18,410	18,300	2,413.8	2,389.0	2,378.3	2,368.0
Marion.....	1,183	1,166	1,180	1,151	144.1	141.1	142.0	137.7
Martin.....	18,999	14,613	10,046	7,183	2,769.7	2,126.2	1,499.9	1,102.7
Okeechobee.....	7,930	7,627	7,079	6,850	901.2	876.3	843.3	819.4
Orange.....	3,618	3,572	3,515	3,373	433.4	426.2	420.8	405.5
Osceola.....	9,718	9,936	9,871	9,502	1,154.7	1,191.0	1,195.5	1,164.0
Pasco.....	7,615	7,423	7,097	7,040	1,063.9	1,036.6	993.1	984.4
Polk.....	82,629	83,471	82,577	82,572	9,841.8	9,952.3	9,878.6	9,938.8
Putnam.....	203	202	196	193	30.5	30.3	29.7	29.6
St. Lucie.....	45,800	41,535	39,223	37,424	5,883.7	5,368.1	5,118.7	4,865.6
Sarasota.....	1,411	1,403	1,398	1,336	159.3	160.1	157.7	151.4
Seminole.....	482	428	422	428	55.4	50.2	49.8	52.5
Volusia.....	1,065	1,090	981	815	106.5	110.9	100.6	85.8
Other Counties ¹	1,196	614	499	337	185.2	97.6	65.5	44.1
Total.....	568,814	554,037	541,328	531,493	74,090.5	72,164.8	70,640.7	69,565.4

¹ Includes Alachua, Citrus, Palm Beach, and Pinellas in 2009 and 2010; Citrus, Palm Beach, and Pinellas in 2011 and 2012.

All Citrus: Acreage and Trees, by Variety and Year of Inventory

Variety	2009	2010	2011	2012	2009	2010	2011	2012
	(acres)	(acres)	(acres)	(acres)	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)
Oranges:								
Hamlin.....	157,558	155,833	154,558	154,135	20,227.1	20,056.8	19,950.1	19,986.2
Navel.....	9,802	9,106	8,713	8,444	1,248.3	1,154.0	1,105.0	1,080.5
Ambersweet.....	1,397	1,363	1,275	1,156	188.5	184.1	170.7	156.4
Other early.....	15,195	14,479	13,999	13,259	2,033.6	1,917.6	1,854.5	1,763.2
Pineapple.....	25,258	22,781	21,422	19,797	3,166.0	2,838.3	2,673.3	2,480.4
Other mids.....	6,703	6,791	6,772	6,802	931.9	942.0	937.1	941.9
Temples.....	1,822	1,741	1,649	1,509	208.6	196.1	190.1	175.7
Non-Valencia.....	217,735	212,094	208,388	205,102	28,004.0	27,288.9	26,880.8	26,584.3
Valencia.....	267,112	262,906	257,464	253,694	36,045.0	35,439.4	34,733.9	34,250.0
Unidentified.....	7,682	8,418	7,234	6,122	943.7	1,048.4	914.2	805.8
Total Oranges.....	492,529	483,418	473,086	464,918	64,992.7	63,776.7	62,528.9	61,640.1
Grapefruit:								
Seedy.....	573	565	561	545	52.9	52.5	52.4	50.5
White seedless.....	15,966	14,124	13,707	13,099	1,637.6	1,437.6	1,394.6	1,335.5
Colored seedless.....	36,974	35,160	34,283	34,135	4,136.5	3,918.5	3,853.0	3,838.4
Unidentified.....	350	340	439	412	34.0	37.3	49.6	47.9
Total Grapefruit.....	53,863	50,189	48,990	48,191	5,861.0	5,445.9	5,349.6	5,272.3
Specialty:								
Tangelos:								
Orlando Tangelos.....	2,977	2,752	2,541	2,407	383.9	352.6	328.6	311.9
Minneola Tangelos.....	1,975	1,716	1,587	1,526	240.3	207.3	192.9	185.8
Other Tangelos.....	285	259	255	240	41.5	38.3	38.1	36.0
Total Tangelos.....	5,237	4,727	4,383	4,173	665.7	598.2	559.6	533.7
Tangerines:								
Fallglo Tangerines.....	1,559	1,476	1,459	1,337	243.5	231.1	228.6	211.0
Sunburst Tangerines.....	6,118	5,681	5,326	5,080	895.2	830.5	782.2	750.2
Early Tangerines.....	7,677	7,157	6,785	6,417	1,138.7	1,061.6	1,010.8	961.2
Honey Tangerines.....	7,319	6,456	6,342	6,135	1,101.9	962.8	940.6	914.3
Total Tangerines.....	14,996	13,613	13,127	12,552	2,240.6	2,024.4	1,951.4	1,875.5
True Lemons.....	461	436	310	309	82.2	78.7	54.0	54.0
Other Citrus ¹	1,728	1,654	1,432	1,350	248.3	240.9	197.2	189.8
Total Specialty.....	22,422	20,430	19,252	18,384	3,236.8	2,942.2	2,762.2	2,653.0
Total Citrus.....	568,814	554,037	541,328	531,493	74,090.5	72,164.8	70,640.7	69,565.4

¹ Includes Meyer Lemons, Robinson and Dancy Tangerines.

All Citrus: Acreage, by Production Area and Year of Inventory

Production Area	Oranges		Grapefruit		Specialty		Total	
	2011	2012	2011	2012	2011	2012	2011	2012
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
Indian River	39,029	35,368	36,482	35,919	2,502	2,348	78,013	73,635
Northern	21,468	20,614	900	877	3,359	3,141	25,727	24,632
Central.....	141,463	140,613	4,626	4,435	6,698	6,578	152,787	151,626
Western.....	134,889	134,945	1,517	1,400	2,516	2,382	138,922	138,727
Southern.....	136,237	133,378	5,465	5,560	4,177	3,935	145,879	142,873
Total	473,086	464,918	48,990	48,191	19,252	18,384	541,328	531,493

CITRUS INVENTORY PROCEDURES

This inventory is the fourth annual survey following a biennial series which began in January 1966. Following the 2008 survey, the work was divided between 2 years with part of each county being visited each year. Florida uses the Public Land Survey System with the units of township and section to describe land. Each township contains 36 sections, each 1 square mile in size. The township is divided into quadrants of 9 square miles. In each survey period, one-half of the quadrants will be inspected. Citrus groves in the northern half of each township will be visited in the odd years and those in the southern half visited in even years.

In 2005, all mapped records were transferred to a geographical information system (GIS) for use with digital imagery. Base maps are 2004 Digital Ortho Quarter Quads with newer high resolution imagery provided by the Florida Resources and Environmental Analysis Center, as they become available. Changes are now detected by comparing digital imagery taken at different times. 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 interpolations 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.

In combination with the citrus inventory, abandoned citrus groves were also identified and their locations mapped. During the major portion of the survey, the Division of Plant Industry provided experienced agricultural personnel to assist the Florida Field Office's tree inventory team to evaluate tree condition and make an overall assessment of each citrus grove.

