



CITRUS COMMERCIAL CITRUS INVENTORY
PRELIMINARY REPORT

Cooperating with the Florida Department of Agriculture and Consumer Services
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All Citrus Acreage Down 2 Percent, and Trees Down 1 Percent

Results of the annual Commercial Citrus Inventory show total citrus acreage is 515,147, down 2 percent from the last survey and the lowest in a series which began in 1966. New plantings are above 10,000 acres for the first time since 2010. Orange, grapefruit, and specialty acreage set new lows in the series. The gross loss of 21,041 is the largest since 2011. Of the 29 counties included in the survey, 22 recorded decreases in acreage, 6 showed increases, and 1 was unchanged. St. Lucie County, down 3,869 acres, has suffered the greatest loss this year, while Martin lost the highest percentage with a 27 percent reduction. Desoto County has recorded gains in the last 7 surveys and this year's gain of 917 acres is the most of any county. Polk remains the leader with 81,810 acres and 10.0 million trees.

Orange acreage declined for the tenth consecutive survey to 452,364, down 2 percent from the previous survey. The Central area contains 31 percent of the acreage but the Western production area was the only one to have an increase and now has 30 percent of the State's total orange acreage. Valencias account for 55 percent of the orange trees, non-Valencias 43 percent, and unidentified trees represent the remaining 2 percent. Similar to recent years, bearing trees constitute 92 percent of the total orange trees.

Grapefruit acreage fell 4 percent from the last survey to 45,922. Seedless varieties lost 2,012 acres and seedy grapefruit declined 5 percent since the previous inventory. Unidentified grapefruit acreage increased 57 percent, so total loss in grapefruit acreage is only 1,734. The Southern production area showed a 1 percent increase in grapefruit acreage. The Indian River District leads with 74 percent of the total grapefruit acreage even after losing 1,713 acres.

Specialty acreage continued to decline and is down 5 percent from the last survey at 16,861. All tangerine acreage fell 6 percent to 11,410. Honey tangerines account for 48 percent of the tangerine total with 5,491 acres. Despite losses, Sunburst acreage accounts for 78 percent of the early tangerine total with 4,613. Tangelo acreage decreased 7 percent to 3,698. True Lemon acreage fell 6 percent to 98. Other citrus acreage increased by 12 percent to 1,655 acres. All production areas showed a decrease in specialty acreage but the Central area continues to lead with 36 percent.

All Citrus: Acreage, by Variety and Survey Year, and Changes Between Surveys – Florida: 1980 - 2014

Survey year	Oranges (acres)	Grapefruit (acres)	Specialty fruit (acres)	Total (acres)	Change ¹		Net change (acres)
					Gross loss (acres)	New plantings (acres)	
1980 ²	627,174	139,944	78,165	845,283	25,925	39,973	+14,048
1982 ²	636,864	139,939	71,053	847,856	51,942	54,515	+2,573
1984 ²	573,991	134,680	52,694	761,365	159,719	73,228	-86,491
1986 ²	466,252	117,845	40,395	624,492	185,598	48,725	-136,873
1988	536,737	119,606	41,586	697,929	52,240	125,677	+73,437
1990 ²	564,809	125,300	42,658	732,767	85,858	120,696	+34,838
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 ³	622,821	89,048	36,686	748,555	88,875	40,127	-48,748
2006 ³	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

¹ One year change beginning in 2009.

² January freezes in 1977, 1981, 1982, 1985, and 1986. December freezes in 1983, 1985, and 1989.

³ August and September hurricanes in 2004, October hurricane in 2005.

All Citrus: Acreage, by Variety and Year Set – Florida: Crop Year 2013 – 2014

Year set	All citrus	Oranges						Tangelos	Other citrus
		Early	Midseason	Temples	Late	Unidentified	Total		
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
Pre-1970.....	22,395	5,723	2,840	561	9,457	-	18,581	440	24
1970-1979.....	15,697	2,950	1,262	48	5,116	-	9,376	38	7
1980-1989.....	118,261	44,553	4,154	384	53,273	-	102,364	988	307
1990-1992.....	89,477	25,561	3,236	89	46,924	-	75,810	958	271
1993-1995.....	36,987	10,914	2,161	46	18,932	4	32,057	313	119
1996-1998.....	37,383	9,082	1,679	78	23,627	-	34,466	222	138
1999-2001.....	46,195	15,792	26,50	67	25,081	-	43,590	169	136
2002-2004.....	38,771	16,125	1,974	53	17,593	-	35,745	293	74
2005-2007.....	32,567	13,900	1,399	17	14,811	6	30,133	93	56
2008-2010.....	40,216	15,602	1,975	3	18,298	900	36,778	92	215
Bearing.....	477,949	160,202	23,330	1,346	233,112	910	418,900	3,606	1,347
2011.....	13,075	4,161	664	3	5,933	1,328	12,089	25	92
2012.....	12,575	3,233	492	2	4,383	2,560	10,670	43	192
2013.....	11,548	3,352	454	4	3,649	3,246	10,705	24	122
Non-bearing.....	37,198	10,746	1,610	9	13,965	7,134	33,464	92	406
Total.....	515,147	170,948	24,940	1,355	247,077	8,044	452,364	3,698	1,753

See footnote(s) at end of table.

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All Citrus: Trees, by Variety and Year Set – Florida: Crop Year 2013 - 2014

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-1970.....	2,257.4	582.2	304.9	59.9	990.3	-	1937.3	39.6	2.2
1970-1979.....	1,688.4	338.1	153.2	5.2	596.6	-	1,093.1	4.4	0.8
1980-1989.....	15,747.7	5,899.9	552.9	49.5	7,343.0	-	13,845.3	132.7	45.2
1990-1992.....	12,724.5	3,547.0	445.3	11.1	6,970.4	-	10,973.8	131.7	34.7
1993-1995.....	5,245.7	1,484.8	323.2	5.9	2,732.7	0.4	4,547.5	42.0	21.9
1996-1998.....	5,057.8	1,201.7	223.2	10.0	3,239.3	-	4,674.2	33.6	18.4
1999-2001.....	5,970.1	2,032.2	364.2	8.9	3,250.8	-	5,656.1	22.1	18.6
2002-2004.....	4,871.1	2,033.7	250.2	6.3	2,229.6	-	4,519.8	35.7	10.1
2005-2007.....	4,063.4	1,711.6	174.0	2.3	1,862.3	0.6	3,750.8	12.7	7.8
2008-2010.....	5,323.1	2,078.1	256.6	0.3	2,441.0	118.3	4,894.3	10.4	34.7
Bearing.....	62,949.2	20,909.3	3,047.7	159.4	31,656.0	119.3	55,891.7	464.9	194.4
2011.....	1,767.4	575.3	97.8	0.3	782.9	181.9	1,638.2	3.0	16.9
2012.....	1,764.5	451.2	72.5	0.4	616.2	349.8	1,490.1	7.0	36.8
2013.....	1,653.2	518.8	62.1	0.5	499.0	445.1	1,525.5	3.7	24.7
Non-bearing.....	5,185.1	1,545.3	232.4	1.2	1,898.1	976.8	4,653.8	13.7	78.4
Total.....	68,134.3	22,454.6	3,280.1	160.6	33,554.1	1,096.1	60,545.5	478.6	272.8

See footnote(s) at end of table.

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All Citrus: Acreage, by Variety and Year Set – Florida: Crop Year 2013- 2014 (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-1970.....	2,197	765	132	-	3,094	-	-	-	256	256
1970-1979.....	1,666	4,469	50	-	6,185	-	-	-	91	91
1980-1989.....	2,767	9,308	123	-	12,198	130	1,313	1,443	961	2,404
1990-1992.....	2,452	6,692	63	-	9,207	417	1,732	2,149	1,082	3,231
1993-1995.....	788	1,785	23	-	2,596	409	621	1,030	872	1,902
1996-1998.....	730	798	16	-	1,544	112	219	331	682	1,013
1999-2001.....	430	1,134	18	-	1,582	62	144	206	512	718
2002-2004.....	480	1,753	13	-	2,246	14	95	109	304	413
2005-2007.....	138	1,693	11	-	1,842	32	161	193	250	443
2008-2010.....	194	2,218	50	198	2,660	48	162	210	261	471
Bearing.....	11,842	30,615	499	198	43,154	1,224	4,447	5,671	5,271	10,942
2011.....	36	525	1	107	669	31	71	102	98	200
2012.....	81	1,063	-	360	1,504	19	67	86	80	166
2013.....	1	411	-	183	595	32	28	60	42	102
Non-bearing.....	118	1,999	1	650	2,768	82	166	248	220	468
Total.....	11,960	32,614	500	848	45,922	1,306	4,613	5,919	5,491	11,410

- Represents zero.

¹ Fallglo and Sunburst varieties.

All Citrus: Trees, by Variety and Year Set – Florida: Crop Year 2013 - 2014 (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-1970.....	173.8	64.6	12.2	-	250.6	-	-	-	27.7	27.7
1970-1979.....	159.0	417.5	4.4	-	580.9	-	-	-	9.2	9.2
1980-1989.....	312.5	1,041.3	11.6	-	1,365.4	21.6	191.9	213.5	145.6	359.1
1990-1992.....	281.7	792.8	6.2	-	1,080.7	65.9	266.5	332.4	171.2	503.6
1993-1995.....	81.2	236.7	2.0	-	319.9	65.3	97.6	162.9	152.0	314.9
1996-1998.....	77.1	93.5	1.5	-	172.1	18.1	35.5	53.6	105.9	159.5
1999-2001.....	42.0	129.1	1.6	-	172.7	9.7	17.6	27.3	73.3	100.6
2002-2004.....	51.6	200.4	0.9	-	252.9	2.0	13.6	15.6	37.0	52.6
2005-2007.....	15.0	210.9	1.0	-	226.9	5.1	21.8	26.9	38.3	65.2
2008-2010.....	21.0	271.0	5.0	24.9	321.9	7.1	20.3	27.4	34.4	61.8
Bearing.....	1,214.9	3,457.8	46.4	24.9	4,744.0	194.8	664.8	859.6	794.6	1,654.2
2011.....	3.2	67.2	0.1	11.6	82.1	4.5	9.6	14.1	13.1	27.2
2012.....	14.3	144.3	-	50.1	208.7	2.8	8.1	10.9	11.0	21.9
2013.....	0.2	55.3	-	27.7	83.2	4.6	5.0	9.6	6.5	16.1
Non-bearing.....	17.7	266.8	0.1	89.4	374.0	11.9	22.7	34.6	30.6	65.2
Total.....	1,232.6	3,724.6	46.5	114.3	5,118.0	206.7	687.5	894.2	825.2	1,719.4

- Represents zero.

¹ Fallglo and Sunburst varieties.

All Citrus, Acreage and Trees, by County and Year of Inventory – Florida: 2011 - 2014

County	2011	2012	2013	2014	2011	2012	2013	2014
	(acres)	(acres)	(acres)	(acres)	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)
Brevard.....	3,430	3,330	3,062	2,990	396.7	387.3	360.6	357.5
Charlotte.....	12,607	13,071	13,213	13,273	1,796.2	1,869.7	1,887.6	1,896.7
Collier.....	30,078	30,780	30,410	30,099	4,406.1	4,503.3	4,452.0	4,420.5
DeSoto.....	63,247	64,258	65,187	66,104	8,435.5	8,595.2	8,732.4	8,864.9
Glades.....	8,433	8,149	8,222	8,009	1,265.9	1,240.9	1,253.3	1,220.9
Hardee.....	47,121	46,792	46,690	47,069	5,749.9	5,726.8	5,732.0	5,847.5
Hendry.....	64,797	63,792	63,291	63,355	9,723.1	9,553.4	9,500.1	9,530.9
Hernando.....	813	800	839	832	88.2	88.1	98.5	98.3
Highlands.....	62,301	61,525	61,685	60,391	8,004.2	7,898.3	7,960.5	7,888.6
Hillsborough.....	8,715	8,023	7,342	6,535	1,009.9	938.6	870.1	778.8
Indian River.....	34,899	32,820	31,922	31,606	3,781.6	3,592.3	3,527.4	3,514.8
Lake.....	11,903	11,060	10,311	10,141	1,680.4	1,577.4	1,480.5	1,463.6
Lee.....	10,490	10,589	10,415	10,498	1,429.5	1,444.6	1,419.7	1,430.1
Manatee.....	18,410	18,300	17,939	17,565	2,378.3	2,368.0	2,320.2	2,276.0
Marion.....	1,180	1,151	1,154	1,100	142.0	137.7	138.0	132.2
Martin.....	10,046	7,183	5,949	4,366	1,499.9	1,102.7	928.7	710.5
Okeechobee.....	7,079	6,850	6,650	6,358	843.3	819.4	797.7	758.2
Orange.....	3,515	3,373	3,238	2,958	420.8	405.5	389.4	359.2
Osceola.....	9,871	9,502	9,218	8,858	1,195.5	1,164.0	1,135.0	1,102.9
Pasco.....	7,097	7,040	6,846	5,912	993.1	984.4	964.8	834.5
Polk.....	82,577	82,572	81,696	81,810	9,878.6	9,938.8	9,923.8	9,997.4
Putnam.....	196	193	184	167	29.7	29.6	28.2	24.6
St. Lucie.....	39,223	37,424	36,247	32,378	5,118.7	4,865.6	4,737.2	4,302.0
Sarasota.....	1,398	1,336	1,335	1,263	157.7	151.4	152.4	145.2
Seminole.....	422	428	401	378	49.8	52.5	49.6	47.1
Volusia.....	981	815	825	765	100.6	85.8	86.8	83.8
Other Counties ¹	499	337	369	367	65.5	44.1	47.3	47.6
Total.....	541,328	531,493	524,640	515,147	70,640.7	69,565.4	68,973.8	68,134.3

¹ Includes Citrus, Palm Beach, and Pinellas.

All Citrus, Acreage and Trees, by Variety and Year of Inventory – Florida: 2011 - 2014

Variety	2011	2012	2013	2014	2011	2012	2013	2014
	(acres)	(acres)	(acres)	(acres)	(1,000 trees)	(1,000 trees)	(1,000 trees)	(1,000 trees)
Oranges:								
Hamlin.....	154,558	154,135	152,566	150,040	19,950.1	19,986.2	19,877.2	19,714.7
Parson Brown.....	10,154	9,497	9,044	8,370	1,350.6	1,268.0	1,209.1	1,114.1
Navel.....	8,713	8,444	8,337	8,236	1,105.0	1,080.5	1,068.4	1,058.8
Ambersweet.....	1,275	1,156	1,070	989	170.7	156.4	144.9	135.4
Other early.....	3,845	3,762	3,575	3,313	503.9	495.2	466.2	431.6
Pineapple.....	21,422	19,797	18,901	18,072	2,673.3	2,480.4	2,386.7	2,318.9
Other mids.....	6,772	6,802	7,016	6,868	937.1	941.9	978.6	961.2
Temples.....	1,649	1,509	1,474	1,355	190.1	175.7	172.0	160.6
Non-Valencia.....	208,388	205,102	201,983	197,243	26,880.8	26,584.3	26,303.1	25,895.3
Valencia.....	257,464	253,694	251,770	247,077	34,733.9	34,250.0	34,119.0	33,554.1
Unidentified.....	7,234	6,122	5,558	8,044	914.2	805.8	744.9	1,096.1
Total Oranges.....	473,086	464,918	459,311	452,364	62,528.9	61,640.1	61,167.0	60,545.5
Grapefruit:								
Seedy.....	561	545	529	500	52.4	50.5	49.5	46.5
White seedless.....	13,707	13,099	12,599	11,960	1,394.6	1,335.5	1,291.0	1,232.6
Colored seedless.....	34,283	34,135	33,987	32,614	3,853.0	3,838.4	3,846.1	3,724.6
Unidentified.....	439	412	541	848	49.6	47.9	64.6	114.3
Total Grapefruit.....	48,990	48,191	47,656	45,922	5,349.6	5,272.3	5,251.2	5,118.0
Specialty:								
Tangelos:								
Orlando Tangelos.....	2,541	2,407	2,239	2,061	328.6	311.9	292.5	272.4
Minneola Tangelos.....	1,587	1,526	1,541	1,451	192.9	185.8	186.8	179.0
Other Tangelos.....	255	240	205	186	38.1	36.0	30.4	27.2
Total Tangelos.....	4,383	4,173	3,985	3,698	559.6	533.7	509.7	478.6
Tangerines:								
Fallglo Tangerines.....	1,459	1,337	1,315	1,306	228.6	211.0	209.3	206.7
Sunburst Tangerines.....	5,326	5,080	4,863	4,613	782.2	750.2	722.5	687.5
Early Tangerines.....	6,785	6,417	6,178	5,919	1,010.8	961.2	931.8	894.2
Honey Tangerines.....	6,342	6,135	5,930	5,491	940.6	914.3	884.0	825.2
Total Tangerines.....	13,127	12,552	12,108	11,410	1,951.4	1,875.5	1,815.8	1,719.4
True Lemons.....	310	309	104	98	54.0	54.0	14.3	13.3
Other Citrus ¹	1,432	1,350	1,476	1,655	197.2	189.8	215.8	259.5
Total Specialty.....	19,252	18,384	17,673	16,861	2,762.2	2,653.0	2,555.6	2,470.8
Total Citrus.....	541,328	531,493	524,640	515,147	70,640.7	69,565.4	68,973.8	68,134.3

¹ Includes Meyer Lemons, Robinson and Dancy Tangerines.

All Citrus Acreage, by Production Area and Year of Inventory – Florida: 2013 - 2014

Production Area	Oranges		Grapefruit		Specialty		Total	
	2013	2014	2013	2014	2013	2014	2013	2014
	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)	(acres)
Indian River	32,000	29,227	35,692	33,979	2,540	2,406	70,232	65,612
Northern	19,782	18,460	859	841	2,991	2,838	23,632	22,139
Central.....	140,056	138,750	4,309	4,266	6,287	6,047	150,652	149,063
Western.....	134,883	135,108	1,374	1,361	2,254	2,085	138,511	138,554
Southern.....	132,590	130,819	5,422	5,475	3,601	3,485	141,613	139,779
Total	459,311	452,364	47,656	45,922	17,673	16,861	524,640	515,147

CITRUS INVENTORY PROCEDURES

This inventory is the sixth 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 Department of Transportation, 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, 50 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.

