



**FLORIDA CROP AND
LIVESTOCK
REPORTING SERVICE**
1222 Woodward Street
Orlando, Florida 32803

CITRUS

Commercial Citrus Tree Inventory
Preliminary Report

FLORIDA AGRICULTURE

September 9, 1982

CITRUS ACREAGE SLIGHTLY HIGHER

The acreage of commercial citrus in Florida has increased slightly since January 1980, based on a new census done by the Florida Crop and Livestock Reporting Service. All citrus totals 847,385 acres in the recently completed 1982 census compared with 845,283 acres in the January 1980 census.

FLORIDA COMMERCIAL CITRUS ACREAGE

Census years	Oranges	Grapefruit	Specialty fruit	Total
1966	673,086	103,224	81,772	858,082
1968	713,400	119,883	97,966	931,249
1970	715,806	124,050	101,615	941,471
1972	659,418	124,142	94,459	878,019
1974	642,431	130,326	91,341	864,098
1976	628,567	137,909	85,893	852,369
1978	616,020	136,342	78,873	831,235
1980	627,174	139,944	78,165	845,283
1982	636,609	139,854	70,922	847,385

This is the ninth biennial census of Florida commercial citrus since the January 1966 inception of this survey system which is heavily based on aerial photography. Aerial photographs of about 14,000 square miles covering virtually all Florida citrus acreage, were taken in late November 1981. Although most of the photo interpretation had been completed and extensive in-grove field work done by January 12, the severe freeze that morning mandated a departure from the usual census in order to correct records for dead and dying trees. Ground survey work was expanded and the survey period extended into July. This accounts for the removal of the January reference date. Census results cover trees planted through 1981, and exclude trees dead or removed through April. Tree mortality resulting from the January 1982 freeze was evident by the end of the survey. Census acreages and tree numbers obviously do not describe tree vitality and its affects on bearing capability. The survival of freeze effected trees included in these 1982 census totals is mostly dependent on economic decisions made in the near future, and absence of severe weather in the 1982-83 season.

The new census shows a gross loss from the previous census of 52,395 acres or about 6.2 percent. History over the past 10 years would indicate at least half of this is normal attrition. Trees planted in 1980 and 1981 totaled 54,497 acres and slightly more than offset the gross loss of trees.

The census shows a drop in bearing acreage, from 775,767 acres in January 1980 to 753,619 for the current survey. As stated above, the census does not include trees set in 1982. During the 1980-1981 period there was extensive resetting with much at closer spacings, and expansion of existing groves. Also, in several counties sizable new acreages have been planted during the past two years. Largest increases in total citrus acreage occurred in Indian River, Hendry, Okeechobee, St. Lucie, Osceola, Polk, Lee and Collier counties. Largest decreases were in Lake, Orange, DeSoto, Hardee, Brevard and Palm Beach counties. Acreage shifts between censuses are described in the following table.

FLORIDA COMMERCIAL CITRUS ACREAGE: CHANGES BETWEEN CENSUSES

Census years	Two year change		Net change	Total
	Gross loss	New plantings		
1966	(First census via aerial photography)			858,082
1968	13,910	87,077	+73,167	931,249
1970	26,114	36,336	+10,222	941,471
1972 1/	82,948	19,496	-63,452	878,019
1974	40,181	26,260	-13,921	864,098
1976	40,518	28,789	-11,729	852,369
1978 1/	49,371	28,237	-21,134	831,235
1980	25,925	39,973	+14,048	845,283
1982 1/	52,395	54,497	+2,102	847,385

1/ January freezes in 1971, 1977, 1981, and 1982.

ACREAGE OF ORANGES INCREASES

The acreage of round oranges in the 1982 survey is 636,609 acres, an increase of 1.5 percent from the 627,174 acres in January 1980. There were 47,032 acres set during 1980 and 1981, and 37,597 acres lost since January 1980, with the resulting net increase of 9,435 acres.

The 1982 survey shows a total orange bearing acreage of 559,962, down 2.9 percent from 576,615 acres in January 1980.

Total acreage of early oranges increased 3,511 acres from the 1980 census while midseasons decreased by 6,890 acres and Valencias decreased by 4,182 acres. However, the total orange acreage unidentified in the current census is 45,379, much higher than the 1980 total of 28,383, because new plantings in 1981 have the largest acreage since 1966.

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FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES

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ALL FLORIDA CITRUS: 1982 inventory of commercial acreage by variety and year set.

Year set	All Citrus	Oranges					Grapefruit		
		Early	Midseason	Late	Unidentified	Total	Seedy	Seedless	
								White	Pink
Acres									
Pre-1938	139,046	24,172	25,078	54,281	3	103,534	13,776	14,026	1,738
1938-1947	66,529	16,377	8,956	26,581	14	51,928	983	3,154	6,119
1948-1957	101,672	16,832	13,954	50,524	2	81,312	438	1,833	8,946
1958	20,413	5,845	3,661	8,196	2	17,704	36	926	313
1959	13,034	4,086	2,067	5,200	1	11,354	27	687	103
1960	33,884	10,674	6,613	12,202	0	29,489	148	1,337	213
1961	27,124	8,656	4,359	11,034	---	24,049	63	1,390	69
1962	35,328	12,259	6,083	12,789	1	31,132	114	863	186
1963	33,337	9,890	6,808	11,152	---	27,850	70	1,656	140
1964	39,243	11,795	6,837	12,836	---	31,468	68	2,938	381
1965	55,016	15,199	7,695	14,409	4	37,307	257	7,491	1,920
1966	34,903	7,729	5,191	7,887	---	20,807	449	6,798	1,810
1967	27,264	4,465	3,471	6,953	4	14,893	564	6,084	1,838
1968	13,611	2,030	1,567	3,330	4	6,931	245	2,493	1,464
1969	13,551	2,888	1,471	4,551	1	8,911	187	1,394	1,184
1970	10,263	2,306	1,857	2,830	3	6,996	218	1,098	737
1971	7,700	949	1,096	1,770	2	3,817	134	1,978	1,146
1972	13,775	2,603	1,718	5,056	5	9,382	310	1,613	1,720
1973	11,895	1,654	1,093	2,126	9	4,882	248	2,442	3,269
1974	13,392	2,337	1,779	2,871	22	7,009	265	2,505	2,819
1975	14,337	2,889	2,018	4,354	157	9,418	275	1,671	2,082
1976	13,365	3,515	1,329	4,499	168	9,511	201	676	1,790
1977	14,937	3,786	1,161	4,414	917	10,278	179	563	2,652
Total Bearing	753,619	172,936	115,862	269,845	1,319	559,962	19,255	65,616	42,639
1978	15,064	3,296	1,345	4,166	2,082	10,889	83	513	2,349
1979	24,205	2,790	1,232	3,390	11,314	18,726	52	246	667
1980	22,043	2,729	385	2,615	13,051	18,780	12	136	180
1981	32,454	5,296	1,657	3,686	17,613	28,252	2	138	741
Non-Bearing	93,766	14,111	4,619	13,857	44,060	76,647	149	1,033	3,937
Total	847,385	187,047	120,481	283,702	45,379	636,609	19,404	66,649	46,576

ALL FLORIDA CITRUS: 1982 inventory of commercial acreage by variety and year set.

Year set	Grapefruit		Templets	Tangelos	Tangerines	Honey Tangerines	Limes	Lemons	Other Citrus
	Unidentified	Total							
	Acres								
Pre-1938	---	29,540	1,201	127	4,042	---	20	20	562
1938-1947	20	10,276	3,190	426	423	8	30	14	234
1948-1957	22	11,239	4,231	1,970	712	1,016	310	311	571
1958	---	1,275	461	293	182	282	86	36	94
1959	---	817	189	205	97	253	33	22	64
1960	15	1,713	573	647	317	803	114	13	215
1961	---	1,522	257	534	139	490	52	0	81
1962	---	1,163	470	763	344	786	109	332	229
1963	---	1,866	622	1,095	687	738	157	99	223
1964	1	3,388	934	1,351	629	517	255	236	465
1965	43	9,711	1,943	2,938	1,218	866	237	182	614
1966	---	9,057	1,000	1,668	765	745	237	291	333
1967	---	8,486	591	1,573	713	337	238	134	299
1968	---	4,202	198	739	397	245	299	460	140
1969	---	2,765	159	584	576	128	315	2	111
1970	5	2,058	212	358	452	36	84	0	67
1971	2	3,260	53	95	303	48	89	15	20
1972	---	3,643	126	159	273	76	60	18	38
1973	---	5,959	92	114	255	20	144	379	50
1974	1	5,590	110	43	91	11	214	219	105
1975	9	4,037	78	88	113	95	266	147	95
1976	14	2,681	62	174	138	47	433	143	176
1977	107	3,501	44	107	121	67	733	44	42
Total Bearing	239	127,749	16,796	16,051	12,987	7,614	4,515	3,117	4,828
1978	146	3,091	114	114	81	61	630	61	23
1979	2,649	3,614	70	110	68	248	1,226	62	81
1980	1,617	1,945	49	31	82	57	1,054	14	31
1981	2,574	3,455	66	220	222	122	64	42	11
Non-Bearing	6,986	12,105	299	475	453	488	2,974	179	146
Total	7,225	139,854	17,095	16,526	13,440	8,102	7,489	3,296	4,974

ALL FLORIDA CITRUS: 1982 inventory of commercial trees by variety and year set.

Year set	All Citrus	Oranges					Grapefruit		
		Early	Midseason	Late	Unidentified	Total	Seedy	Seedless	
								White	Pink
1,000 trees									
Pre-1938	9,639.7	1,753.6	1,783.3	3,748.9	0.2	7,286.0	876.2	921.1	118.3
1938-1947	4,741.2	1,181.3	656.7	1,898.3	0.8	3,737.1	64.3	206.3	395.6
1948-1957	7,467.2	1,211.5	1,035.6	3,730.7	0.1	5,977.9	32.0	122.2	575.0
1958	1,589.2	451.4	285.7	637.2	0.1	1,374.4	3.0	63.9	23.0
1959	1,022.3	312.1	165.6	411.8	0.1	889.6	1.8	45.8	8.1
1960	2,747.5	825.8	550.1	1,019.7	0.0	2,395.6	9.4	90.4	14.8
1961	2,233.7	705.3	358.7	922.1	---	1,986.1	5.7	92.4	5.6
1962	2,961.3	988.4	503.9	1,073.9	0.1	2,566.3	8.5	59.4	12.5
1963	2,837.6	812.5	576.0	967.4	---	2,355.9	4.9	116.1	11.0
1964	3,551.9	1,037.3	621.1	1,183.7	---	2,842.1	4.7	231.6	29.6
1965	5,114.2	1,340.4	763.8	1,379.9	0.4	3,484.5	20.3	621.9	158.0
1966	3,407.2	750.7	525.5	801.6	---	2,077.8	35.0	586.8	152.2
1967	2,739.8	465.2	366.5	732.0	0.3	1,564.0	49.2	516.4	165.7
1968	1,382.8	206.3	168.2	338.4	0.2	713.1	19.5	211.6	121.0
1969	1,414.7	303.5	158.8	468.1	0.1	930.5	14.3	122.2	106.0
1970	1,058.2	252.5	198.8	291.7	0.2	743.2	16.9	91.4	64.8
1971	733.3	89.4	117.2	175.2	0.1	381.9	9.3	160.0	101.4
1972	1,469.5	285.2	189.6	582.2	0.3	1,057.3	24.8	142.0	157.2
1973	1,090.4	148.4	105.2	187.6	0.6	441.8	18.1	214.6	289.6
1974	1,300.1	214.9	177.2	273.5	1.6	667.2	23.1	224.7	278.6
1975	1,301.4	256.8	185.1	397.1	15.4	854.4	19.4	135.5	185.3
1976	1,201.6	305.1	118.3	400.3	13.3	837.0	16.1	51.0	153.5
1977	1,380.2	341.6	101.6	384.1	79.6	906.9	13.7	45.4	245.9
Total Bearing	62,385.0	14,239.2	9,712.5	22,005.4	113.5	46,070.6	1,290.2	5,072.7	3,372.7
1978	1,396.5	310.0	127.4	369.5	178.2	985.1	5.5	41.9	204.8
1979	2,336.2	265.2	131.5	347.1	1,019.7	1,763.5	3.5	20.9	62.2
1980	2,180.8	263.8	37.1	278.6	1,234.5	1,814.0	1.0	11.4	19.7
1981	3,270.4	582.8	174.6	390.2	1,716.6	2,864.2	0.1	11.3	77.4
Non-Bearing	9,183.9	1,421.8	470.6	1,385.4	4,149.0	7,426.8	10.1	85.5	364.1
Total	71,568.9	15,661.0	10,183.1	23,390.8	4,262.5	53,497.4	1,300.3	5,158.2	3,736.8

ALL FLORIDA CITRUS: 1982 inventory of commercial trees by variety and year set.

Year set	Grapefruit		Temples	Tangelos	Tangerines	Honey Tangerines	Limes	Lemons	Other Citrus
	Unidentified	Total							
	1,000 Trees								
Pre-1938	---	1,915.6	89.1	9.7	289.5	---	1.9	2.2	45.7
1938-1947	1.3	667.5	247.9	31.8	29.6	0.7	3.6	2.2	20.8
1948-1957	1.6	730.8	325.5	145.8	51.1	97.1	37.7	56.3	45.0
1958	---	89.9	33.2	23.9	13.6	28.9	13.4	4.3	7.6
1959	---	55.7	14.6	15.1	7.5	27.4	2.8	4.6	5.0
1960	1.6	116.2	40.3	53.1	26.1	81.3	14.9	1.4	18.6
1961	---	103.7	21.5	41.4	12.7	52.2	8.7	0.0	7.4
1962	---	80.4	43.7	65.3	30.1	85.4	14.7	55.0	20.4
1963	---	132.0	56.5	92.6	61.0	71.1	29.7	15.7	23.1
1964	0.0	265.9	87.1	118.7	56.2	60.5	42.9	34.6	43.9
1965	4.5	804.7	204.2	283.4	114.3	93.6	38.3	27.8	63.4
1966	---	774.0	105.4	177.0	77.3	83.3	35.4	41.2	35.8
1967	---	731.3	65.5	166.0	89.1	37.6	39.6	13.1	33.6
1968	---	352.1	21.7	75.3	42.7	27.2	55.6	77.5	17.6
1969	---	242.5	16.0	66.0	70.1	16.4	61.9	0.1	11.2
1970	0.3	173.4	21.8	41.1	53.3	3.9	13.7	0.0	7.8
1971	0.3	271.0	5.3	11.8	37.2	5.1	17.2	1.5	2.3
1972	---	324.0	11.6	18.6	33.7	9.7	9.0	1.7	3.9
1973	---	522.3	9.5	11.4	28.3	2.2	24.9	43.3	6.7
1974	0.0	526.4	10.3	4.0	9.2	0.9	34.4	34.9	12.8
1975	0.7	340.9	6.7	8.6	10.7	9.0	43.0	15.4	12.7
1976	0.8	221.4	4.5	15.7	13.5	5.5	66.0	13.7	24.3
1977	8.0	313.0	3.2	11.2	10.5	6.1	120.5	4.1	4.7
Total Bearing	19.1	9,754.7	1,445.1	1,487.5	1,167.3	805.1	729.8	450.6	474.3
1978	14.6	266.8	9.8	11.9	7.5	6.4	100.5	5.7	2.8
1979	229.2	315.8	5.7	9.8	7.7	24.8	190.5	7.2	11.2
1980	145.6	177.7	3.6	2.9	9.2	5.5	161.2	1.5	5.2
1981	230.4	319.2	6.5	24.7	25.6	12.0	12.1	4.5	1.6
Non-Bearing	619.8	1,079.5	25.6	49.3	50.0	48.7	464.3	18.9	20.8
Total	638.9	10,834.2	1,470.7	1,536.8	1,217.3	853.8	1,194.1	469.5	495.1

**ALL FLORIDA CITRUS: Acreage and tree numbers in commercial groves
by county, 1976 to 1982**

County	Acres in commercial groves				Trees in commercial groves			
	1976	1978	1980	1982	1976	1978	1980	1982
	Acres				1,000 trees			
Alachua	155	109	109	102	13.8	8.8	8.9	8.6
Brevard	18,158	17,039	17,006	15,812	1,751.2	1,643.3	1,612.7	1,520.6
Broward	3,317	3,199	2,147	1,769	248.0	238.6	160.3	124.3
Charlotte	6,408	6,100	6,122	6,114	621.0	595.6	590.0	581.1
Citrus	1,379	1,280	1,260	1,248	96.6	88.8	87.2	86.8
Collier	5,396	5,975	6,706	7,920	584.8	649.8	718.0	847.6
Dade	4,536	4,587	6,142	7,157	750.4	754.1	990.6	1,134.0
DeSoto	34,963	33,882	36,157	34,193	3,552.0	3,476.1	3,722.3	3,463.1
Flagler	192	192	177	177	16.1	16.0	14.1	14.4
Glades	1,615	1,613	3,395	4,026	153.2	152.8	304.2	358.1
Hardee	44,812	44,084	45,161	43,553	3,401.5	3,387.0	3,530.4	3,477.3
Hendry	25,944	28,903	30,086	32,930	2,884.5	3,214.1	3,340.2	3,672.6
Hernando	6,717	6,554	6,765	6,466	546.6	528.6	549.3	520.5
Highlands	37,375	37,105	37,767	37,640	2,965.4	2,982.0	3,063.1	3,131.0
Hillsborough	39,750	38,163	37,976	37,621	3,252.8	3,141.0	3,140.1	3,117.9
Indian River	56,206	56,200	58,262	62,680	4,666.8	4,701.7	4,916.1	5,451.5
Lake	126,016	123,246	122,777	117,696	9,794.2	9,570.5	9,473.0	9,026.1
Lee	6,243	5,384	5,451	6,704	667.1	584.9	595.4	728.7
Manatee	15,221	14,730	14,802	14,057	1,248.8	1,201.8	1,197.1	1,151.3
Marion	11,327	11,272	11,484	11,372	890.0	887.3	905.1	887.5
Martin	40,264	38,361	40,768	40,547	3,895.7	3,707.7	3,940.0	3,969.3
Okeechobee	4,162	4,171	4,281	6,949	370.8	370.0	379.9	641.5
Orange	54,007	51,174	50,673	48,533	4,087.6	3,872.0	3,830.3	3,679.0
Osceola	16,922	16,231	16,457	17,943	1,243.2	1,201.3	1,218.3	1,404.9
Palm Beach	16,030	16,343	16,797	15,654	1,712.5	1,727.4	1,765.8	1,648.4
Pasco	34,286	33,367	33,314	33,402	2,649.2	2,583.1	2,567.7	2,567.2
Pinellas	3,770	3,205	2,579	2,406	307.1	262.8	211.3	197.2
Polk	137,693	134,261	132,124	133,520	9,748.1	9,567.1	9,439.1	9,664.4
Putnam	3,041	2,692	2,631	2,468	253.0	223.3	218.0	202.7
St. Johns	127	125	112	111	10.8	10.7	9.3	9.6
St. Lucie	73,912	70,462	75,140	76,848	6,402.9	6,121.0	6,534.8	6,729.3
Sarasota	1,661	1,604	1,538	1,561	151.2	146.3	141.2	144.2
Seminole	8,276	7,635	7,202	6,822	634.7	584.6	548.1	522.7
Sumter	1,760	1,760	1,772	1,589	148.1	145.7	146.7	134.1
Volusia	10,728	10,227	10,143	9,795	827.3	791.0	783.8	751.4
TOTAL	852,369	831,235	845,283	847,385	70,547.0	69,136.8	70,652.4	71,568.9

ALL FLORIDA CITRUS: Acreage and tree numbers in commercial groves
by variety , 1976 to 1982

Variety	Acres in commercial groves				Trees in commercial groves			
	1976	1978	1980	1982	1976	1978	1980	1982
	Acres				1,000 trees			
ORANGES								
Hamlin	134,981	133,118	138,188	141,540	11,301.3	11,176.3	11,609.8	12,047.1
Navel	10,865	10,826	11,487	12,588	917.6	920.6	984.9	1,094.6
Other Early	35,554	34,202	33,861	32,919	2,707.5	2,607.2	2,581.4	2,519.3
Pineapple	118,790	112,355	111,215	105,423	10,131.3	9,622.5	9,542.4	9,117.8
Other Mids.	18,642	17,075	16,156	15,058	1,316.2	1,208.6	1,139.3	1,065.3
Valencia	298,236	288,389	287,884	283,702	24,237.9	23,620.6	23,584.6	23,390.8
Unidentified	11,499	20,055	28,383	45,379	983.5	1,687.4	2,535.4	4,262.5
Total	628,567	616,020	627,174	636,609	51,595.3	50,843.2	51,977.8	53,497.4
GRAPEFRUIT								
Seedy	23,296	21,495	20,321	19,404	1,551.4	1,439.6	1,363.4	1,300.3
White Seedless	69,305	68,119	67,973	66,649	5,318.8	5,268.9	5,261.6	5,158.2
Pink Seedless	38,639	39,961	44,163	46,576	2,939.9	3,116.9	3,488.4	3,736.8
Unidentified	6,669	6,767	7,487	7,225	588.0	587.1	655.3	638.9
Total	137,909	136,342	139,944	139,854	10,398.1	10,412.5	10,768.7	10,834.2
SPECIALTY								
Temples	20,978	19,129	18,470	17,095	1,809.1	1,645.5	1,585.1	1,470.7
Tangelos	19,011	18,149	17,643	16,526	1,807.9	1,713.3	1,649.5	1,536.8
Dancy Tang.	12,698	11,287	10,126	8,692	970.6	861.2	772.7	668.0
Robinson Tang	5,943	5,622	5,552	4,748	699.2	662.6	650.2	549.3
Honey Tang.	8,855	8,536	8,569	8,102	938.1	902.4	900.0	853.8
Satsumas	1,167	1,075	986	819	106.8	96.2	87.7	72.3
Limes	4,752	4,807	6,539	7,489	778.5	790.9	1,059.3	1,194.1
True Lemons	6,170	4,420	4,141	2,105	712.2	530.2	483.1	268.3
Meyer Lemons	1,594	1,427	1,355	1,191	262.5	241.2	230.9	201.2
Miscellaneous	4,725	4,421	4,784	4,155	468.7	437.6	487.4	422.8
Total	85,893	78,873	78,165	70,922	8,553.6	7,881.1	7,905.9	7,237.3
ALL CITRUS	852,369	831,235	845,283	847,385	70,547.0	69,136.8	70,652.4	71,568.9

GRAPEFRUIT TOTAL UNCHANGED

The acreage of total grapefruit was 139,854 and virtually the same as in January 1980. White seedless acreage decreased from 67,973 to 66,649 while pink seedless increased from 44,163 to 46,576 acres. Pink seedless includes Ruby Red, Star Ruby and all other colored grapefruit types. This total has increased with every census since January 1966. It is further expected that most of the 6,986 acres of young non-bearing grapefruit trees listed as unidentified in the grapefruit acreage total are pink seedless types. The steady decline in acreage of Duncan, the white seedy grapefruit, continued as it has since before the January 1966 census.

SPECIALTY CITRUS DECREASES

Temples, tangelos and tangerines all continued their steady decline in acreage with tangerines dropping the most. Honey tangerines which had maintained their acreage in the two previous surveys, again continued downward from the 1970 peak acreage.

The acreage of limes, primarily in the Homestead area, was 7,489 acres, and again substantially higher than the previous census. Lemon acreage, particularly the True varieties dropped sharply, primarily as the result of freeze damage.

CITRUS CENSUS PROCEDURES

This biennial census, the ninth in a series which began with January 1966 was to be based, as previously, around current aerial photographic coverage. Aerial photos of the 14,000 square miles which virtually cover Florida citrus were taken during November 1981--this was the first of the nine censuses in which the photographic coverage was obtained in the same winter of a severe freeze, and did not provide the desired interval for the purpose of detecting tree losses.

The census procedure relies on a complete mapping, and indexing of all citrus plantings onto photo enlargements to precise scale made from earlier censuses. The current aerial photos are interpreted by stereoscopic comparison with photos from the previous census to detect changes--tree

removals and new tree plantings. Each change observed is followed up by visits to the grove. Block acreages are measured from the enlargement with a polar planimeter. Tree numbers for most blocks, except where actual tree counts are made, are calculated from a combination of planimetered acreage and from row and tree spacing measured on the ground in each block. Each block is reduced as necessary for counts made of excessive dead trees or empty spaces, as well as barnyards, turn rows, etc.

Records of nearly 200,000 separate plantings or blocks are maintained in the system. A new record is created for each new planting, and records for plantings no longer existing are removed. In most previous censuses over two-thirds of these plantings were unchanged from the census two years earlier, and these records were brought forward and entered into the current census tabulations. Thus, usually fewer than one-third of the plantings or blocks have required in-grove visits.

The January 1981 freeze had substantially increased the number of plantings detected as change by photo interpretation, thus expanding the amount of necessary ground survey work. As this work was proceeding, the January 1982 freeze pushed many plantings into more severely damaged status, with an especially great effect in DeSoto and Hardee counties and on one and two year old trees throughout the State. It then became necessary to field check many additional groves for freeze damage in areas that did not have damage from the January 1981 freeze. Ideal recovery conditions following this latest freeze assisted the fieldmen in their decision to count out the trees which were not recovering.

Much of the credit for success of this field work goes to the Division of Plant Industry, which supplied eight trained citrus technologists with 4-wheel drive vehicles for the duration of the survey.

Results of this tree census form the basis for the October citrus crop forecasts; first as a population for selecting a probability sample of trees for the limb count survey, and secondly, in providing the number of bearing trees which, with the limb count survey, indicates the total number of fruit.