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AGRICULTURAL
STATISTICS SERVICE
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CITRUS

FLORIDA AGRICULTURE

COMMERCIAL CITRUS TREE INVENTORY
PRELIMINARY REPORT

September 16, 1988

ALL CITRUS ACREAGE INCREASES TO 697,929 ACRES

Florida's Biennial Commercial Citrus Inventory, as of January 1988, increased to 697,929 acres, a significant gain from the low of 624,492 acres in 1986. The first acreage inventory was taken in 1966. The current 12 percent increase is a result of extensive new plantings in the southern areas, replanting of frozen out blocks primarily in the northern area, and resetting and interplanting in existing groves in all growing areas.

Of the 624,492 total acres in 1986, 52,240 acres were removed. However, 125,677 acres were planted during 1986 and 1987. These new plantings, less the removals, result in a net gain of 73,437 acres for Florida's citrus belt.

Total bearing acres of all citrus increased to 521,802 acres, up from 510,711 acres in 1986 following several freezes in the early and mid-1980's. Nonbearing acreage is up considerably at 176,127 compared to 113,781 acres in 1986.

ORANGE ACREAGE INCREASES TO 536,737 ACRES

The 1988 all orange acreage is 536,737 acres compared to 466,252 in 1986. This is a 15 percent increase in the past two years. However, tree numbers increased 25 percent because of the many new groves being set with more trees per acre.

Hamlin orange acreage is up dramatically at 151,665 acres after the 1986 low of 115,789 acres. This gain of nearly 31 percent represents 35,876 acres. Navel acreage reflects both large gains in recent plantings and classification from previously non-identified oranges. There are now 18,295 acres of Navels, many of which are young trees.

The bearing acreage for all oranges is 380,163 acres, up 3 percent from the 367,581 acres reported in 1986. However, there is a 59 percent gain in the current survey's nonbearing ages at 156,574 acres compared to 98,671 acres in 1986.

GRAPEFRUIT INCREASES TO 119,606 ACRES

Grapefruit shows a net increase of 1,761 acres in the past two years. White grapefruit at 53,084 acres decreased slightly while colored acreage increased to 51,443 acres from 47,004 acres in 1986. Seedy grapefruit are continuing to decline and are now at 8,903 acres which is the fewest for this type in many decades. There were more than 26,000 acres of Duncan (Seedy) grapefruit in 1968 before this variety started declining.

The bearing acreage for all grapefruit is virtually unchanged at 105,962 compared with 105,134 acres two years ago.

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	636,864	139,939	71,053	847,856
1984	573,991	134,680	52,694	761,365
1986	466,252	117,845	40,395	624,492
1988	536,737	119,606	41,586	697,929

SPECIALTY ACREAGE UP SLIGHTLY

The specialty citrus types are up in total acreage from 1986, but several types are lower. Temples, Dancy and Robinson tangerines, limes and lemons all show reduced acreages. The other citrus category which includes Sunburst tangerines, shows the largest gain among the specialty types. The Sunburst variety has 1,813 acres and 232,410 trees. There are probably additional blocks of Sunburst included in trees too young to identify. All of the tangelos and Honey tangerines show acreage increases.

FLORIDA COMMERCIAL CITRUS ACREAGE:
CHANGES BETWEEN CENSUSES

Census years	Two year change: Gross loss	Two year change: New plantings	Net change	Total
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/	49,127	27,993	-21,134	831,235
1980	25,925	39,973	+14,048	845,283
1982 1/	51,942	54,515	+2,573	847,856
1984 1/	159,719	73,228	-86,491	761,365
1986 1/	185,598	48,725	-136,873	624,492
1988	52,240	125,677	+73,437	697,929

1/ January freezes in 1971, 1977, 1981, 1982, 1985 and 1986. December freezes in 1983 and 1985.

U. S. Department of Agriculture
National Agricultural Statistics Service

Florida Department of Agriculture
Division of Marketing Division of Plant Industry

ALL FLORIDA CITRUS: 1988 INVENTORY OF COMMERCIAL ACRES BY VARIETY AND YEAR SET

YEAR SET	ALL CITRUS	ORANGES					SEEDLESS GRAPEFRUIT	
		EARLY	MIDSEASON	LATE	UNIDENT	TOTAL	WHITE	COLORED
	ACRES							
PRE-1944	66074	10079	10103	29254	58	49494	6648	2091
1944-53	34580	4469	3818	15642	2	23931	1393	6241
1954-63	106068	28287	17808	45116	8	91219	6449	1644
1964	25533	7131	4204	8677	4	20016	2679	362
1965	34204	8270	4616	8402	0	21288	6570	1771
1966	24498	5306	3310	5529	0	14145	6238	1548
1967	19665	2915	2345	4738	7	10005	5497	1716
1968	9581	1364	1011	2292	12	4679	2100	1338
1969	9177	1786	865	3292	2	5945	1118	1124
1970	7048	1534	1027	2155	0	4716	931	652
1971	5522	573	659	1251	0	2483	1593	1036
1972	10596	1907	1269	4218	1	7395	1151	1499
1973	8811	1042	737	1382	0	3161	2052	3025
1974	10174	1565	1337	2248	0	5150	2042	2462
1975	10195	1816	1352	3246	2	6416	1385	1743
1976	8728	2134	873	3144	5	6156	490	1360
1977	10397	2682	830	3211	2	6725	424	2235
1978	10599	2814	1042	3230	28	7114	364	2339
1979	15858	4676	1433	5209	33	11351	419	2230
1980	14682	4910	1119	5732	25	11786	340	1140
1981	20926	9556	1603	6036	136	17331	449	2247
1982	22198	10258	1260	6413	184	18115	573	2885
1983	36688	16285	3254	10815	1188	31542	624	2711
TOTAL BEARING	521802	131359	65875	181232	1697	380163	51529	45399
1984	24157	10939	1227	7016	914	20096	522	2389
1985	26293	9504	1005	6233	7197	23939	201	572
1986	46494	15412	878	11770	14527	42587	233	785
1987	79183	19627	2275	18617	29433	69952	599	2298
NON-BEARING	176127	55482	5385	43636	52071	156574	1555	6044
TOTAL	697929	186841	71260	224868	53768	536737	53084	51443

ALL FLORIDA CITRUS: 1988 INVENTORY OF COMMERCIAL ACRES BY VARIETY AND YEAR SET

YEAR SET	GRAPEFRUIT					TANGERINES		OTHER
	SEEDY	UNIDENT	TOTAL	TEMPLES	TANGELOS	DANCY ROBINSON	HONEY	CITRUS
	ACRES							
PRE-1944	5864	15	14618	957	147	814	0	44
1944-53	319	1	7954	1803	683	55	13	141
1954-63	329	0	8422	1849	2269	433	1141	735
1964	26	10	3077	720	875	156	277	412
1965	192	0	8533	1547	1561	362	527	386
1966	127	0	7913	749	816	228	385	262
1967	370	0	7583	523	921	204	159	270
1968	96	0	3534	152	426	87	152	551
1969	122	0	2364	109	277	151	71	260
1970	94	4	1681	139	234	143	27	108
1971	126	0	2755	40	53	95	17	79
1972	134	0	2784	79	118	81	58	81
1973	115	0	5192	65	60	59	4	270
1974	120	0	4624	46	26	18	2	308
1975	165	0	3293	44	66	34	73	269
1976	120	0	1970	19	72	73	44	394
1977	113	1	2773	27	66	42	53	711
1978	64	0	2767	58	90	22	35	513
1979	47	3	2699	54	79	65	385	1225
1980	56	13	1549	64	44	52	140	1047
1981	51	11	2758	102	192	125	134	284
1982	49	6	3513	63	111	72	87	237
1983	145	126	3606	134	236	170	317	683
TOTAL BEARING	8844	190	105962	9343	9422	3541	4101	9270
1984	13	75	2999	124	290	112	129	407
1985	7	371	1151	45	172	132	236	618
1986	18	1409	2445	207	470	251	206	328
1987	21	4131	7049	223	612	247	421	679
NON-BEARING	59	5986	13644	599	1544	742	992	2032
TOTAL	8903	6176	119606	9942	10966	4283	5093	11302

ALL FLORIDA CITRUS: 1988 INVENTORY OF COMMERCIAL TREES BY VARIETY AND YEAR SET

YEAR SET	ALL CITRUS	ORANGES					SEEDLESS GRAPEFRUIT	
		EARLY	MIDSEASON	LATE	UNIDENT	TOTAL	WHITE	COLORED
	1,000 TREES							
PRE-1944	4817.9	768.6	750.7	2151.8	6.2	3677.3	455.7	146.3
1944-53	2539.5	338.1	300.4	1164.0	0.1	1802.6	95.4	406.0
1954-63	8849.5	2312.5	1534.4	3832.8	0.6	7680.3	436.5	115.6
1964	2402.1	668.0	397.2	842.9	0.2	1908.3	205.6	28.7
1965	3261.6	772.2	483.7	839.2	0.0	2095.1	540.9	146.8
1966	2435.1	540.8	351.4	590.4	0.0	1482.6	542.6	130.5
1967	1972.9	314.6	250.8	516.0	0.8	1082.2	460.9	154.5
1968	983.6	150.4	114.5	238.8	0.8	504.5	175.6	112.4
1969	955.2	193.6	99.7	343.5	0.2	637.0	97.8	99.5
1970	738.7	180.7	111.3	226.3	0.0	518.3	78.7	58.2
1971	529.2	58.0	75.9	126.5	0.0	260.4	132.0	92.1
1972	1161.9	222.4	148.3	492.8	0.1	863.6	101.3	136.9
1973	832.4	101.2	74.3	131.5	0.0	307.0	183.6	263.9
1974	1026.5	157.0	141.9	238.9	0.0	537.8	183.1	240.9
1975	989.3	176.5	134.5	326.1	0.3	637.4	113.1	161.3
1976	843.2	199.6	87.5	308.5	0.3	595.9	38.3	121.3
1977	1032.7	262.2	80.5	299.8	0.2	642.7	36.7	210.4
1978	1049.2	282.8	107.0	316.4	2.5	708.7	31.4	203.2
1979	1655.7	463.2	154.0	545.5	2.4	1165.1	35.9	206.5
1980	1583.6	505.8	115.9	610.5	2.4	1234.6	27.7	115.8
1981	2227.7	1028.7	176.8	651.9	13.0	1870.4	40.1	219.6
1982	2322.1	1096.5	143.1	677.0	18.4	1935.0	49.2	269.2
1983	3911.1	1748.4	357.2	1163.9	121.0	3390.5	56.1	260.1
TOTAL BEARING	48120.7	12541.8	6191.0	16635.0	169.5	35537.3	4118.2	3899.7
1984	2686.4	1213.3	140.1	798.1	94.7	2246.2	50.4	254.2
1985	3124.8	1122.7	113.2	803.9	805.0	2844.8	18.0	62.4
1986	5742.0	1924.2	103.2	1563.5	1707.2	5298.1	21.1	86.1
1987	9634.3	2539.0	285.9	2439.5	3345.8	8610.2	59.3	264.7
NON-BEARING	21187.5	6799.2	642.4	5605.0	5952.7	18999.3	148.8	667.4
TOTAL	69308.2	19341.0	6833.4	22240.0	6122.2	54536.6	4267.0	4567.1

ALL FLORIDA CITRUS: 1988 INVENTORY OF COMMERCIAL TREES BY VARIETY AND YEAR SET

YEAR SET	GRAPEFRUIT			TEMPLES	TANGELOS	TANGERINES		OTHER CITRUS
	SEEDY	UNIDENT	TOTAL			DANCY ROBINSON	HONEY	
	1,000 TREES							
PRE-1944	383.2	1.1	986.3	75.5	11.9	61.6	0.0	5.3
1944-53	23.2	0.1	524.7	140.8	48.8	4.7	1.3	16.6
1954-63	25.2	0.0	577.3	151.2	181.9	36.9	122.5	99.4
1964	1.9	0.6	236.8	69.3	78.6	14.3	34.6	60.2
1965	16.3	0.0	704.0	165.8	151.3	35.4	57.0	53.0
1966	9.2	0.0	682.3	80.9	87.3	23.1	45.4	33.5
1967	33.0	0.0	648.4	58.6	99.5	25.2	19.2	39.8
1968	7.5	0.0	295.5	17.1	43.0	9.5	17.0	97.0
1969	10.1	0.0	207.4	11.5	30.3	18.8	7.8	42.4
1970	7.9	0.2	145.0	14.0	25.9	16.1	2.9	16.5
1971	9.9	0.0	234.0	3.6	6.3	9.8	1.6	13.5
1972	10.8	0.0	249.0	7.4	14.2	8.7	7.8	11.2
1973	8.3	0.0	455.8	7.9	6.6	6.0	0.5	48.6
1974	10.0	0.0	434.0	4.1	2.7	2.2	0.2	45.5
1975	12.4	0.0	286.8	4.0	7.0	3.3	7.1	43.7
1976	11.4	0.0	171.0	1.4	6.7	7.7	5.2	55.3
1977	9.2	0.0	256.3	1.9	7.3	4.2	5.2	115.1
1978	4.3	0.0	238.9	5.7	10.4	2.2	3.8	79.5
1979	3.6	0.3	246.3	5.1	7.1	6.7	35.4	190.0
1980	3.8	1.2	148.5	6.2	3.7	5.6	20.2	164.8
1981	3.1	0.9	263.7	9.8	19.8	14.2	14.4	35.4
1982	3.6	0.4	322.4	6.9	10.5	9.2	8.8	29.3
1983	12.8	11.3	340.3	13.6	26.3	17.3	35.4	87.7
TOTAL BEARING	620.7	16.1	8654.7	862.3	887.1	342.7	453.3	1383.3
1984	1.0	11.0	316.6	13.4	33.4	10.4	14.6	51.8
1985	0.5	35.8	116.7	4.8	21.6	14.2	36.0	86.7
1986	1.9	154.9	264.0	24.2	57.2	29.7	26.0	42.8
1987	1.8	403.4	729.2	23.2	79.8	31.1	66.1	94.7
NON-BEARING	5.2	605.1	1426.5	65.6	192.0	85.4	142.7	276.0
TOTAL	625.9	621.2	10081.2	927.9	1079.1	428.1	596.0	1659.3

ALL FLORIDA CITRUS: Acreage and tree numbers in commercial groves by county, 1982 to 1988

County	Acreage in commercial groves				Trees in commercial groves			
	1982	1984	1986	1988	1982	1984	1986	1988
	Acres				1,000 trees			
Brevard	15,827	15,804	11,676	11,641	1,519.9	1,509.3	1,143.2	1,132.5
Broward	1,770	1,646	1,276	764	124.5	124.8	95.8	54.6
Charlotte	6,120	8,220	8,759	9,345	580.8	783.6	852.9	926.5
Citrus	1,256	*	75	191	85.8	*	5.2	17.1
Collier	7,931	8,425	10,063	17,309	847.2	896.3	1,140.3	2,200.2
Dade	7,158	6,976	6,976	6,656 1/	1,134.0	1,120.3	1,120.3	1,060.1 1/
DeSoto	34,212	34,786	36,042	43,143	3,463.0	3,589.9	3,769.2	4,782.4
Glades	4,026	5,141	6,076	6,235	358.2	463.6	572.6	613.7
Hardee	43,568	43,954	42,751	45,898	3,477.2	3,687.0	3,730.2	4,269.4
Hendry	32,944	36,807	40,269	54,953	3,672.0	4,101.1	4,635.6	7,051.9
Hernando	6,471	*	167	695	520.6	*	20.5	77.1
Highlands	37,661	44,030	46,012	48,569	3,131.1	3,906.6	4,176.6	4,806.0
Hillsborough	37,631	*	23,754	25,507	3,118.9	*	1,967.8	2,233.2
Indian River	62,703	63,510	64,302	65,162	5,451.2	5,507.7	5,648.5	5,850.4
Lake	117,730	*	13,523	26,228	9,026.3	*	1,241.1	2,749.8
Lee	6,711	6,575	7,313	8,247	729.1	700.9	792.4	929.4
Manatee	14,071	14,360	15,688	18,779	1,151.1	1,201.0	1,360.4	1,773.4
Marion	11,396	*	329	1,209	888.4	*	29.3	129.0
Martin	40,646	40,483	41,095	40,921	3,977.9	4,077.7	4,222.9	4,395.9
Okeechobee	6,954	8,044	7,449	8,124	640.9	754.9	701.3	784.0
Orange	48,547	*	14,692	17,356	3,678.1	*	1,164.9	1,532.4
Osceola	17,959	16,133	13,035	14,114	1,405.3	1,266.9	1,046.2	1,238.4
Palm Beach	15,664	15,382	15,198	14,887	1,648.7	1,575.6	1,580.5	1,607.9
Pasco	33,425	*	3,903	9,371	2,566.6	*	407.9	1,091.2
Pinellas	2,417	1,674	394	276	196.7	133.0	32.7	23.1
Polk	133,545	129,912	106,993	108,546	9,663.3	9,591.1	8,274.1	9,133.4
Putnam	2,464	*	14	46	203.0	*	1.4	5.7
St. Lucie	76,863	80,402	82,770	88,893	6,728.9	7,110.0	7,463.0	8,405.5
Sarasota	1,570	1,619	1,568	1,929	143.4	145.5	143.0	191.0
Seminole	6,823	*	1,194	1,440	522.3	*	92.6	114.7
Sumter	1,593	*	116	116	134.0	*	11.8	11.8
Volusia	9,810	*	1,020	1,379	749.5	*	84.6	116.5
Other Counties 2/	390	*	0	0	32.0	*	0.0	0.0
Total	847,856	761,365	624,492	697,929	71,569.9	65,975.5	57,528.8	69,308.2

*Counties worked by probability sampling: 177,482 acres, 13,728,700 trees.

1/ Surveyed in November 1986.

2/ Alachua, Flagler and St. Johns.

ALL FLORIDA CITRUS: Acreage and tree numbers in commercial groves by variety, 1982 to 1988

Fruit types	Acreage in commercial groves				Trees in commercial groves			
	1982	1984	1986	1988	1982	1984	1986	1988
	Acres				1,000 trees			
ORANGES:								
Hamlin	141,622	129,928	115,789	151,665	12,050.8	11,549.3	11,135.6	15,797.4
Navel	12,603	12,584	13,236	18,295	1,095.2	1,149.0	1,296.1	1,918.2
Other Early	32,936	26,284	15,198	16,881	2,518.2	2,073.1	1,316.7	1,625.4
Pineapple	105,467	86,616	67,837	65,670	9,118.7	7,708.2	6,347.5	6,429.1
Other Midseason	15,072	11,226	6,304	5,590	1,065.4	792.0	449.9	404.3
Valencia	283,782	254,610	207,163	224,868	23,393.8	21,520.1	18,720.8	22,240.0
Unidentified	45,382	52,743	40,725	53,768	4,262.3	5,093.0	4,194.8	6,122.2
Sub-total	636,864	573,991	466,252	536,737	53,504.4	49,884.7	43,461.4	54,536.6
GRAPEFRUIT:								
Seedy	19,423	15,327	10,326	8,903	1,299.5	1,015.8	696.8	625.9
White Seedless	66,682	62,013	54,761	53,084	5,158.2	4,800.6	4,324.2	4,267.0
Colored Seedless	46,608	48,806	47,004	51,443	3,736.2	4,002.5	4,015.9	4,567.1
Unidentified	7,226	8,534	5,754	6,176	639.3	764.0	587.1	621.2
Sub-total	139,939	134,680	117,845	119,606	10,833.2	10,582.9	9,624.0	10,081.2
SPECIALTY:								
Temples	17,102	13,826	10,251	9,942	1,469.6	1,215.1	933.2	927.9
Orlando Tangelos	12,677	9,216	6,905	7,734	1,151.8	843.5	638.4	745.4
Minneola Tangelos	2,267	2,195	2,058	2,265	200.5	198.0	188.9	218.5
Other Tangelos	1,565	1,265	899	967	177.8	145.4	104.7	115.2
Dancy Tangerines	8,690	4,957	2,919	2,345	666.8	386.3	238.9	195.7
Robinson Tangerines	4,754	3,160	2,278	1,938	548.7	368.0	268.8	232.4
Honey Tangerines	8,108	6,215	4,845	5,093	853.4	663.0	540.2	596.0
Limes	7,491	7,009	7,238	7,079[1/]	1,194.2	1,118.2	1,141.9	1,110.4[1/]
True Lemons	2,106	1,808	1,547	946	267.9	235.7	214.5	153.0
Meyer Lemons	1,194	488	167	150	201.4	77.5	24.2	23.5
Other Citrus	5,099	2,555	1,288	3,127[2/]	500.2	257.2	149.7	372.4[2/]
Sub-total	71,053	52,694	40,395	41,586	7,232.3	5,507.9	4,443.4	4,690.4
Total Citrus	847,856	761,365	624,492	697,929	71,569.9	65,975.5	57,528.8	69,308.2

1/ Includes Dade County surveyed as of November 1986.

2/ Includes 1,813 acres and 232,400 trees of Sunburst Tangerines.

CITRUS ACREAGE IN FLORIDA AS OF JANUARY 1988 BY FRUIT TYPES AND PRODUCTION AREAS

Areas	Oranges		Grapefruit		Specialty types		Total		
	1986	1988	1986	1988	1986	1988	1986	1988	
Indian River Mkt. Dist.	87,000	91,346	77,166	78,306	8,347	8,083	172,513	177,735	3+
Northern	29,935	50,620	1,287	2,054	2,953	4,382	34,175	57,056	67+
Central	135,472	141,743	20,449	19,092	9,650	9,730	165,571	170,565	3+
Western	111,149	126,182	4,930	5,240	4,118	4,060	120,197	135,482	13+
Southern	102,696	126,846	14,013	14,914	15,327	15,331	132,036	157,091	19+
Total	466,252	536,737	117,845	119,606	40,395	41,586	624,492	697,929	

CITRUS CENSUS PROCEDURES

This Biennial Census, the 12th in a series which began in January, 1966, was conducted using current aerial photography. Aerial photos of the 14,000 square miles covering virtually all of Florida's citrus were taken during a four month period beginning about the first of November 1987.

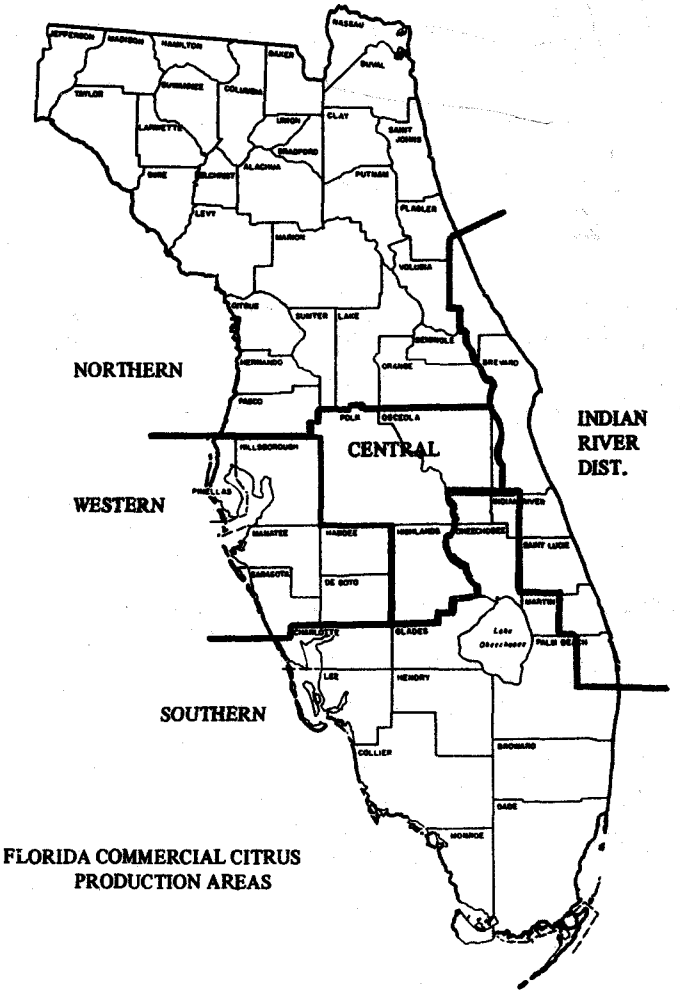
The Census procedure starts with a complete mapping and indexing of all citrus plantings onto scaled photo enlargements from the previous Census. Aided by stereoscopic techniques, the current aerial photos are compared with photos from the previous census to detect grove changes, tree removals and new tree plantings. Each change observed by the photo interpreter is followed by a visit and ground check which usually results in a new tree count for the grove. The ground checks are accomplished by experienced field personnel. Acreages are measured from photo enlargements with a polar planimeter. Tree numbers are from actual tree counts or expansions from measured acreages. Block sizes are reduced as necessary for excessive counts of 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 for plantings no longer existing are removed. Because of frequent changes, more than eighty percent of the variety blocks in the citrus belt have been visited for updates or corrections during the 1988 census. Usually, in non-freeze years, less than one third of all blocks require visitations to complete a biennial tree census. Many grove changes made in this census resulted from recent freezes and general grove rehabilitation. The availability of trees has greatly increased new plantings and resetting in older groves.

Much of the credit for completing the field work for the 1988 Census goes to the Division of Plant Industry, which supplied nine trained citrus technologists with four wheel drive vehicles.

FREEZE DAMAGED GROVES

In most remaining freeze damaged groves, individual tree counts were made. Any tree with green foliage in the limb scaffold was considered alive unless the total block could be considered abandoned for lack of care. In blocks where trees are continuing to die back, counts will be re-evaluated in the 1990 tree census.



FLORIDA COMMERCIAL CITRUS PRODUCTION AREAS

PRODUCTION AREAS OUTLINED

For the first time since the objective survey work was started, production areas were redesigned following the 1986 Census to give greater efficiency in sampling, through reduced variances. The principal change was to place all the northern cold prone regions in a single area. The Indian River Marketing District was set apart, as was the southern flatwoods plantings. This stratification is providing greater homogeneity within each sampling stratum. Current tree census statistics by production area are directly comparable with 1986 census data. However, the establishment of newly defined areas resulted in a loss of comparative data for earlier years.