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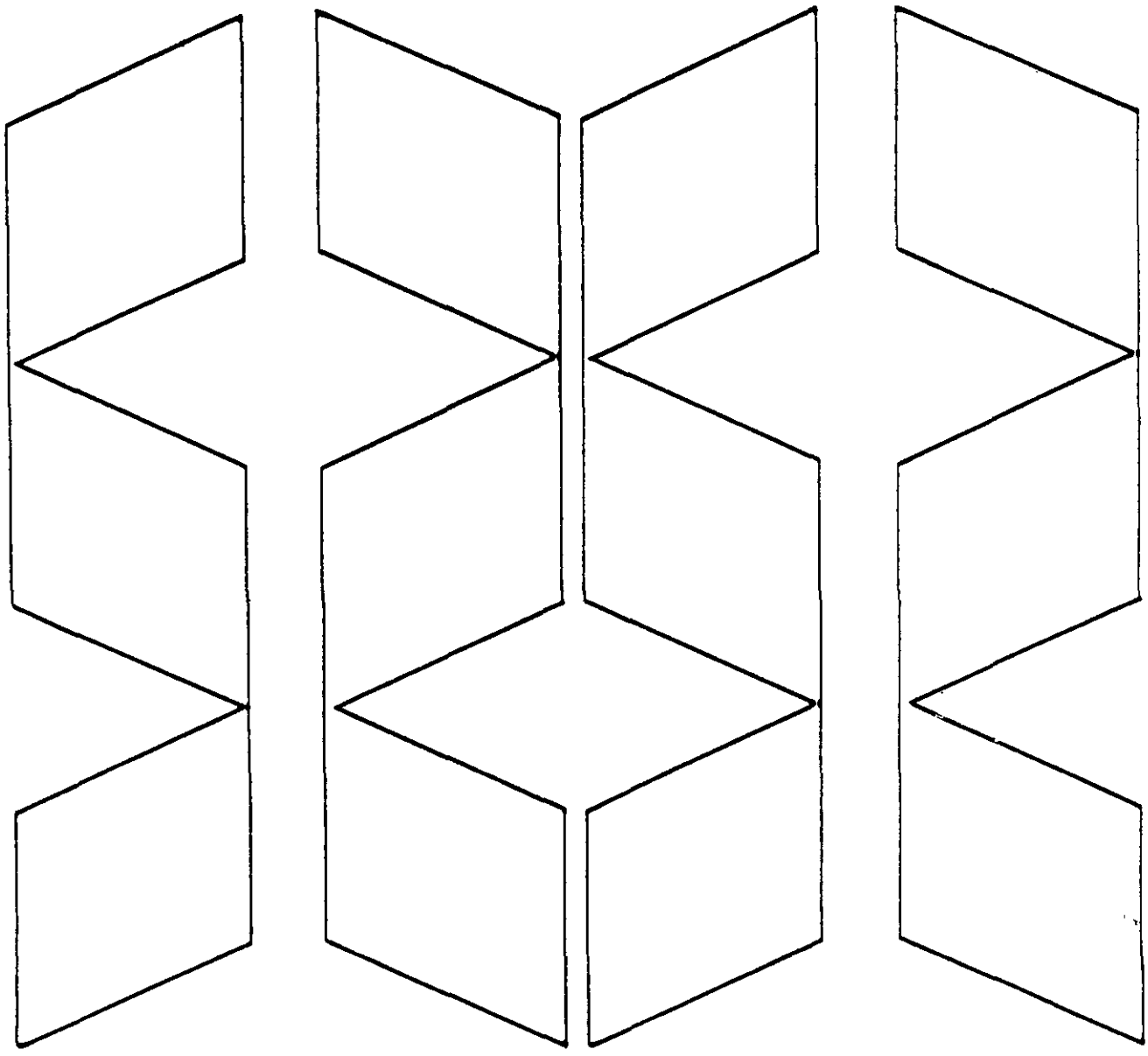
Citrus Fruits

1991 Summary

September 1991
Fr Nt 3-1(91)



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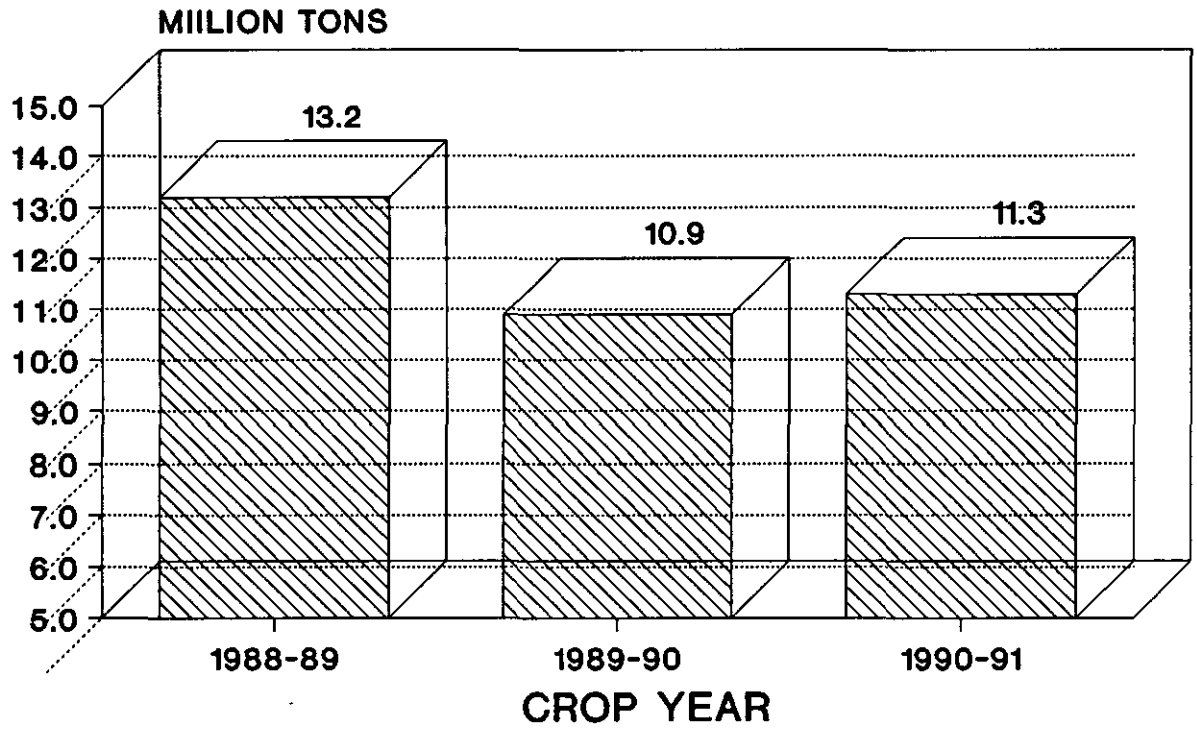
U.S. CITRUS
TOTAL PRODUCTION



All Citrus Fruit Production Higher in 1990-91

Citrus production for the 1990-91 season totaled 11.3 million tons, a 4 percent increase over 1989-90 but down 14 percent from 1988-89. In 1990-91 Florida accounted for 80 percent of the U.S. citrus production, while California accounted for 17 percent, and Arizona 3 percent. The Florida citrus crop production would have been larger but excessive fruit droppage reduced volume. California suffered extensive citrus crop losses due to the December 1990 freeze. The extent of the tree damage from the freeze will become more obvious as the current crop develops. Texas had no commercial production in 1990-91 due to the severe freeze in December 1989.

Value of the 1990-91 citrus production at 2.49 billion dollars was 11 percent higher than 1989-90. The value for every type of citrus increased over the previous season except for Navel oranges.

The revised production and utilization estimates in this report are based on all data available at the end of the marketing season, including information from marketing orders, shipments, processor records, etc. Allowances are made for unrecorded local utilization and home use. Estimates for the 1990-91 California Valencia oranges, grapefruit, and lemons are preliminary as records are not complete for the marketing season.

Citrus Fruits

Crop and Season	Bearing Acreage	Production	Utilization of Production: Fresh	Utilization of Production: Processed	Value of Production
	Acres	1,000 Tons	1,000 Tons	1,000 Tons	1,000 Dollars
Oranges					
Early, Midseason and Navel					
1988-89	325,000	5,186	1,278	3,908	1,002,370
1989-90	334,200	4,783	1,470	3,313	902,928
1990-91	339,000	4,550	631	3,919	858,800
Valencia					
1988-89	263,700	3,763	738	3,025	846,097
1989-90	263,600	2,962	633	2,329	565,971
1990-91	273,700	3,337	574	2,763	813,190
All Oranges					
1988-89	588,700	8,949	2,016	6,933	1,848,467
1989-90	597,800	7,745	2,103	5,642	1,468,899
1990-91	612,700	7,887	1,205	6,682	1,671,990
Grapefruit					
1988-89	150,200	2,844	1,395	1,449	416,041
1989-90	147,300	1,978	882	1,096	371,897
1990-91	133,400	2,255	1,240	1,015	380,764
Lemons					
1988-89	63,900	759	466	293	234,955
1989-90	63,300	706	466	240	279,825
1990-91	62,100	722	453	269	294,534
Limes					
1988-89	6,600	55	42	13	21,474
1989-90	6,700	72	44	28	22,884
1990-91	6,200	64	41	23	27,859
Tangelos					
1988-89	9,500	171	61	110	31,392
1989-90	8,900	132	50	82	20,778
1990-91	8,000	119	53	66	21,845
Tangerines 1/					
1988-89	19,300	239	153	86	83,075
1989-90	19,800	164	111	53	72,088
1990-91	20,200	164	116	48	77,753

See footnotes on page 5.

Citrus Fruits

Crop, Season and State	Bearing Acreage	Production	Utilization of Production: Fresh	Utilization of Production: Processed	Value of Production
	Acres	1,000 Tons	1,000 Tons	1,000 Tons	1,000 Dollars
Temples					
1988-89	9,300	169	39	130	27,844
1989-90	8,000	63	6	57	10,668
1990-91	7,700	113	36	77	19,726
Total Citrus					
AZ					
1988-89	36,000	296	184	112	67,735
1989-90	36,100	257	180	77	85,650
1990-91	36,000	321	218	103	108,195
CA					
1988-89	253,900	3,163	2,149	1,014	740,980
1989-90	249,400	3,649	2,410	1,239	905,588
1990-91	250,600	1,882	1,166	716	693,817
FL 1/ 2/					
1988-89	528,700	9,456	1,617	7,839	1,815,494
1989-90	534,600	6,823	980	5,843	1,233,383
1990-91	555,700	9,121	1,760	7,361	1,692,459
TX 3/					
1988-89	28,900	271	222	49	39,039
1989-90	31,700	131	92	39	22,418
1990-91	8,000	0	0	0	0
US 1/ 2/					
1988-89	847,500	13,186	4,172	9,014	2,663,248
1989-90	851,800	10,860	3,662	7,198	2,247,039
1990-91	850,300	11,324	3,144	8,180	2,494,471

1/ FL "all tangerines" include Sunburst tangerines beginning with the 1989-90 season.
2/ Does not include FL lemons and K-Early citrus fruit.
3/ No commercial production due to December 1989 freeze.

Oranges

State, Crop and Season	Bearing Acreage	Yield Per Acre	Utilization of Production		
			Fresh	Processed	Total
	Acres	Boxes	1,000 Boxes 1/		
AZ					
Navel and Misc.					
1988-89	3,900	141	500	50	550
1989-90	4,400	89	351	39	390
1990-91	4,400	125	487	63	550
Valencia					
1988-89	6,500	177	715	435	1,150
1989-90	5,800	210	808	412	1,220
1990-91	5,800	207	931	269	1,200
All					
1988-89	10,400	163	1,215	485	1,700
1989-90	10,200	158	1,159	451	1,610
1990-91	10,200	172	1,418	332	1,750
CA					
Navel and Misc.					
1988-89	108,000	315	25,900	8,100	34,000
1989-90	106,000	418	32,300	12,000	44,300
1990-91	109,000	145	9,200	6,600	15,800
Valencia					
1988-89	69,600	358	14,700	10,200	24,900
1989-90	69,100	392	14,800	12,300	27,100
1990-91	69,100	159	6,700	4,300	11,000
All					
1988-89	177,600	332	40,600	18,300	58,900
1989-90	175,100	408	47,100	24,300	71,400
1990-91	178,100	150	15,900	10,900	26,800
FL					
Early, Midseason					
1988-89	205,400	415	5,434	79,866	85,300
1989-90	215,300	316	4,851	63,249	68,100
1990-91	223,300	392	5,966	81,534	87,500
Valencia					
1988-89	183,300	334	3,054	58,246	61,300
1989-90	184,200	229	1,071	41,029	42,100
1990-91	197,600	324	6,410	57,590	64,000
All					
1988-89	388,700	377	8,488	138,112	146,600
1989-90	399,500	276	5,922	104,278	110,200
1990-91	420,900	360	12,376	139,124	151,500
TX 2/					
Early, Midseason					
1988-89	7,700	156	1,021	179	1,200
1989-90	8,500	124	663	387	1,050
1990-91 3/	2,300	0	0	0	0
Valencia					
1988-89	4,300	151	535	115	650
1989-90	4,500	34	0	155	155
1990-91 3/	1,200	0	0	0	0
All					
1988-89	12,000	154	1,556	294	1,850
1989-90 4/	13,000	93	663	542	1,205
1990-91 3/	3,500	0	0	0	0

1/ See page 14 for net weight per box.
2/ Includes small quantities of tangerines in early, midseason.
3/ No commercial production due to December 1989 freeze.
4/ Fresh utilization insignificant due to freeze and included in processed.

Oranges

State, Crop and Season	Price Per Box 1/			Value of Production		
	Fresh	Processed:	All	Fresh	Processed:	Total
	Dollars			1,000 Dollars		
AZ						
Navel and Misc.						
1988-89	12.96	0.97	11.87	6,480	49	6,529
1989-90	11.67	2.58	10.76	4,096	101	4,197
1990-91	15.88	0.89	14.16	7,734	56	7,790
Valencia						
1988-89	9.76	2.84	7.14	6,978	1,235	8,213
1989-90	9.71	4.37	7.91	7,846	1,800	9,646
1990-91	25.97	1.12	20.40	24,178	301	24,479
All						
1988-89	11.08	2.65	8.67	13,458	1,284	14,742
1989-90	10.30	4.22	8.60	11,942	1,901	13,843
1990-91	22.50	1.08	18.44	31,912	357	32,269
CA						
Navel and Misc.						
1988-89	9.36	1.84	7.57	242,424	14,904	257,328
1989-90	9.67	3.61	8.03	312,341	43,320	355,661
1990-91	17.28	0.89	10.43	158,976	5,874	164,850
Valencia						
1988-89	11.36	3.72	8.23	166,992	37,944	204,936
1989-90	10.91	3.38	7.49	161,468	41,574	203,042
1990-91	30.17	1.62	19.01	202,139	6,966	209,105
All						
1988-89	10.08	2.89	7.85	409,416	52,848	462,264
1989-90	10.06	3.49	7.82	473,809	84,894	558,703
1990-91	22.71	1.18	13.95	361,115	12,840	373,955
FL						
Early, Midseason						
1988-89	9.50	8.48	8.54	51,623	677,264	728,887
1989-90	11.40	7.59	7.86	55,301	480,060	535,361
1990-91	10.60	7.64	7.84	63,240	622,920	686,160
Valencia						
1988-89	9.40	10.30	10.26	28,708	599,934	628,642
1989-90	15.60	8.19	8.38	16,708	336,028	352,736
1990-91	11.00	8.84	9.06	70,510	509,096	579,606
All						
1988-89	9.46	9.25	9.26	80,331	1,277,198	1,357,529
1989-90	12.16	7.83	8.06	72,009	816,088	888,097
1990-91	10.81	8.14	8.35	133,750	1,132,016	1,265,766
TX						
Early, Midseason						
1988-89	8.46	5.52	8.02	8,638	988	9,626
1989-90	9.10	4.33	7.34	6,033	1,676	7,709
1990-91 2/	0.00	0.00	0.00	0	0	0
Valencia						
1988-89	7.09	4.46	6.62	3,793	513	4,306
1989-90	0.00	3.53	3.53	0	547	547
1990-91 2/	0.00	0.00	0.00	0	0	0
All						
1988-89	7.99	5.11	7.53	12,431	1,501	13,932
1989-90	9.10	4.10	6.85	6,033	2,223	8,256
1990-91 2/	0.00	0.00	0.00	0	0	0

1/ Equivalent packinghouse-door returns.
2/ No commercial production due to December 1989 freeze.

Oranges

State, Crop and Season	Bearing Acreage	Yield Per Acre	Utilization of Production		
			Fresh	Processed	Total
	Acres	Boxes	1,000 Boxes		
US					
Early, Midseason and Navel					
1988-89	325,000	372	32,855	88,195	121,050
1989-90	334,200	341	38,165	75,675	113,840
1990-91	339,000	306	15,653	88,197	103,850
Valencia					
1988-89	263,700	334	19,004	68,996	88,000
1989-90	263,600	268	16,679	53,896	70,575
1990-91	273,700	278	14,041	62,159	76,200
Total					
1988-89	588,700	355	51,859	157,191	209,050
1989-90	597,800	308	54,844	129,571	184,415
1990-91	612,700	294	29,694	150,356	180,050

Oranges Processed 1/, Florida

Season	Frozen Concentrates	Chilled Products	Other Processed 2/	Total Processed
	1,000 Boxes			
1988-89	113,732	29,902	1,141	144,775
1989-90	73,640	33,836	659	108,135
1990-91	104,136	38,366	568	143,070

1/ Includes tangelos, temples, tangerines and K-Early citrus.
2/ Includes sections and salads, cannery juice, and blend.

Frozen Concentrated Orange Juice Yield 1/, Florida

Season	Early Midseason	Valencia	All
	Gallons Per Box		
1988-89	1.47532	1.62816	1.53625
1989-90	1.23446	1.20566	1.22604
1990-91	1.39285	1.55915	1.45383

1/ Gallons per box at 42.0 degrees Brix.

Oranges

State, Crop and Season	Price Per Box 1/ 2/			Value of Production		
	Fresh	Processed:	All	Fresh	Processed:	Total
	-------- Dollars -------			------ 1,000 Dollars --------		
US						
Early, Midseason and Navel						
1988-89	9.43	7.96	8.32	309,165	693,205	1,002,370
1989-90	9.94	7.03	7.93	377,771	525,157	902,928
1990-91	14.40	7.21	8.21	229,950	628,850	858,800
Valencia						
1988-89	10.82	9.42	9.69	206,471	639,626	846,097
1989-90	11.21	7.20	8.06	186,022	379,949	865,971
1990-91	20.29	8.39	10.44	296,827	516,363	813,190
Total						
1988-89	9.94	8.59	8.90	515,636	1,332,831	1,848,467
1989-90	10.32	7.10	7.98	563,793	905,106	1,468,899
1990-91	17.21	7.70	9.15	526,777	1,145,213	1,671,990

1/ Equivalent packinghouse-door returns.
2/ U. S. marketing year average prices are derived by weighting the state marketing year average prices per box by the respective box weights.

Grapefruit Processed, Florida

Season	Frozen Concentrates	Chilled Products	Other Processed 1/	Total Processed
	1,000 Boxes			
1988-89	26,621	2,626	1,601	30,848
1989-90	19,405	1,931	1,019	22,355
1990-91	17,413	3,396	373	21,182

1/ Includes sections and salads, cannery juice, and blend.

Grapefruit

State, Crop and Season	Bearing Acreage	Yield Per Acre	Utilization of Production		
			Fresh	Processed	Total
	Acres	Boxes	1,000 Boxes 1/		
AZ					
All					
1988-89	6,500	300	1,335	615	1,950
1989-90	6,400	344	1,665	535	2,200
1990-91	6,400	375	1,692	708	2,400
CA					
Desert					
1988-89	8,200	427	2,550	950	3,500
1989-90	7,600	461	2,400	1,100	3,500
1990-91	7,200	486	2,500	1,000	3,500
Other Areas					
1988-89	11,700	385	2,950	1,550	4,500
1989-90	11,600	509	3,600	2,300	5,900
1990-91	11,100	405	2,700	1,800	4,500
All					
1988-89	19,900	402	5,500	2,500	8,000
1989-90	19,200	490	6,000	3,400	9,400
1990-91	18,300	437	5,200	2,800	8,000
FL					
White Seedless					
1988-89	51,100	542	8,033	19,667	27,700
1989-90	48,200	373	4,054	13,946	18,000
1990-91	47,400	458	8,189	13,511	21,700
Colored Seedless					
1988-89	47,100	503	15,869	7,831	23,700
1989-90	47,700	342	9,290	7,010	16,300
1990-91	50,700	430	15,729	6,071	21,800
Other 2/					
1988-89	8,700	385	0	3,350	3,350
1989-90	7,100	197	0	1,400	1,400
1990-91	6,100	262	0	1,600	1,600
All					
1988-89	106,900	512	23,902	30,848	54,750
1989-90	103,000	347	13,344	22,356	35,700
1990-91	104,200	433	23,918	21,182	45,100
TX					
All					
1988-89	16,900	284	3,890	910	4,800
1989-90	18,700	107	1,605	395	2,000
1990-91 3/	4,500	0	0	0	0
US					
Total					
1988-89	150,200	463	34,627	34,873	69,500
1989-90	147,300	335	22,614	26,686	49,300
1990-91	133,400	416	30,810	24,690	55,500

1/ See page 14 for net weight per box.
2/ Fresh sales insignificant and included in processed sales.
3/ No commercial production due to December 1989 freeze.

Grapefruit

State, Crop and Season	Price Per Box 1/			Value of Production		
	Fresh	Processed:	All	Fresh	Processed:	Total
	------- Dollars -------			------ 1,000 Dollars -------		
AZ						
All						
1988-89	6.42	0.09	4.42	8,571	55	8,626
1989-90	13.08	0.42	10.00	21,778	225	22,003
1990-91	9.18	-0.27	6.39	15,533	-191	15,342
CA						
Desert						
1988-89	6.42	-0.06	4.66	16,371	-57	16,314
1989-90	13.08	0.37	9.09	31,392	407	31,799
1990-91	8.48	-0.27	5.98	21,200	-270	20,930
Other Areas						
1988-89	11.12	0.22	7.37	32,804	341	33,145
1989-90	11.68	0.70	7.40	42,048	1,610	43,658
1990-91	9.88	-0.23	5.84	26,676	-414	26,262
All 2/						
1988-89	8.99	0.12	6.21	49,175	284	49,459
1989-90	12.22	0.60	8.01	73,440	2,017	75,457
1990-91	9.22	-0.24	5.90	47,876	-684	47,192
FL						
White Seedless						
1988-89	7.82	5.21	5.97	62,818	102,465	165,283
1989-90	12.51	5.20	6.85	50,716	72,519	123,235
1990-91	10.27	3.52	6.07	84,101	47,559	131,660
Colored Seedless						
1988-89	7.53	3.88	6.32	119,494	30,384	149,878
1989-90	11.20	3.62	7.94	104,048	25,376	129,424
1990-91	10.46	2.44	8.23	164,525	14,813	179,338
Other 3/						
1988-89	0.00	5.28	5.28	0	17,688	17,688
1989-90	0.00	5.44	5.44	0	7,616	7,616
1990-91	0.00	4.52	4.52	0	7,232	7,232
All						
1988-89	7.63	4.88	6.08	182,312	150,537	332,849
1989-90	11.60	4.72	7.29	154,764	105,511	260,275
1990-91	10.39	3.29	7.06	248,626	69,604	318,230
TX						
All						
1988-89	6.04	1.77	5.23	23,496	1,611	25,107
1989-90	8.44	1.56	7.08	13,546	616	14,162
1990-91 4/	0.00	0.00	0.00	0	0	0
US 5/						
Total						
1988-89	7.59	4.47	6.00	263,554	152,487	416,041
1989-90	11.60	4.18	7.49	263,528	108,369	371,897
1990-91	10.18	2.89	6.90	312,035	68,729	380,764

1/ Equivalent packinghouse-door returns.
2/ CA marketing year average prices are derived by weighting the area marketing year average prices per box by the respective box weights.
3/ Fresh sales insignificant and included in processed sales.
4/ No commercial production due to December 1989 freeze.
5/ U.S. marketing year average prices are derived by weighting the State marketing year average prices per box by the respective box weights.

Lemons, Limes, Tangelos, Tangerines, and Temples

Crop, State and Season	Bearing Acreage	Yield Per Acre	Utilization of Production		
			Fresh	Processed	Total
	Acres	Boxes	------- 1,000 Boxes 1/ -------		
Lemons					
AZ					
1988-89	15,500	245	1,980	1,820	3,800
1989-90	15,500	181	1,764	1,036	2,800
1990-91	15,400	266	2,410	1,690	4,100
CA					
1988-89	48,400	335	10,300	5,900	16,200
1989-90	47,800	331	10,500	5,300	15,800
1990-91	46,700	319	9,500	5,400	14,900
US					
1988-89	63,900	313	12,280	7,720	20,000
1989-90	63,300	294	12,264	6,336	18,600
1990-91	62,100	306	11,910	7,090	19,000
Limes					
FL					
1988-89	6,600	189	950	300	1,250
1989-90	6,700	246	1,010	640	1,650
1990-91	6,200	234	930	520	1,450
Tangelos					
FL					
1988-89	9,500	400	1,348	2,452	3,800
1989-90	8,900	331	1,118	1,832	2,950
1990-91	8,000	331	1,186	1,464	2,650
Tangerines					
AZ					
1988-89	3,600	181	520	130	650
1989-90	4,000	150	460	140	600
1990-91	4,000	150	497	103	600
CA					
1988-89	8,000	255	1,475	565	2,040
1989-90	7,300	226	1,240	410	1,650
1990-91	7,500	173	1,030	270	1,300
FL 2/					
1988-89	7,700	377	1,639	1,261	2,900
1989-90	8,500	200	999	701	1,700
1990-91	8,700	224	1,227	723	1,950
US					
1988-89	19,300	290	3,634	1,956	5,590
1989-90	19,800	199	2,699	1,251	3,950
1990-91	20,200	191	2,754	1,096	3,850
Temples					
FL					
1988-89	9,300	403	869	2,881	3,750
1989-90	8,000	175	139	1,261	1,400
1990-91	7,700	325	790	1,710	2,500

1/ See page 14 for net weight per box. 2/ FL "all tangerines" include Sunburst tangerines beginning with the 1989-90 season.

Lemons, Limes, Tangelos, Tangerines, and Temples

Crop, State and Season	Price Per Box 1/			Value of Production		
	Fresh	Processed:	All	Fresh	Processed:	Total
	------- Dollars -------			------ 1,000 Dollars -------		
Lemons						
AZ						
1988-89	15.68	1.86	9.06	31,046	3,385	34,431
1989-90	20.95	2.79	14.23	36,956	2,890	39,846
1990-91	18.48	2.70	11.98	44,537	4,563	49,100
CA						
1988-89	18.38	1.90	12.38	189,314	11,210	200,524
1989-90	21.25	3.18	15.19	223,125	16,854	239,979
1990-91	24.38	2.56	16.47	231,610	13,824	245,434
US 2/						
1988-89	17.94	1.89	11.75	220,360	14,595	234,955
1989-90	21.21	3.12	15.04	260,081	19,744	279,825
1990-91	23.19	2.59	15.50	276,147	18,387	294,534
Limes						
FL						
1988-89	21.60	3.18	17.18	20,520	954	21,474
1989-90	21.20	2.30	13.87	21,412	1,472	22,884
1990-91	28.20	3.14	19.21	26,226	1,633	27,859
Tangelos						
FL						
1988-89	10.10	7.25	8.26	13,615	17,777	31,392
1989-90	9.90	5.30	7.04	11,068	9,710	20,778
1990-91	12.00	5.20	8.24	14,232	7,613	21,845
Tangerines						
AZ						
1988-89	18.76	1.39	15.29	9,755	181	9,936
1989-90	20.81	2.75	16.60	9,573	385	9,958
1990-91	22.97	0.66	19.14	11,416	68	11,484
CA						
1988-89	18.66	2.14	14.08	27,524	1,209	28,733
1989-90	24.41	2.88	19.06	30,268	1,181	31,449
1990-91	26.27	0.66	20.95	27,058	178	27,236
FL						
1988-89	21.60	7.14	15.31	35,402	9,004	44,406
1989-90	27.00	5.29	18.05	26,973	3,708	30,681
1990-91	28.20	6.13	20.02	34,601	4,432	39,033
US 2/						
1988-89	20.17	5.58	14.92	72,681	10,394	83,075
1989-90	24.96	4.36	18.23	66,814	5,274	72,088
1990-91	26.71	4.55	20.17	73,075	4,678	77,753
Temples						
FL						
1988-89	9.00	6.95	7.43	7,821	20,023	27,844
1989-90	19.60	6.30	7.62	2,724	7,944	10,668
1990-91	13.00	5.53	7.89	10,270	9,456	19,726

1/ Equivalent packinghouse-door returns.
2/ U.S. marketing year average prices are derived by weighting the State marketing year average prices per box by the respective box weights.

Growers' Marketing Seasons and Net Weight Per Box

Oranges:	Arizona -- November 1 to August 31	75 pounds
	California -- Navel, November 1 to June 15; Valencia, March 15 to December 20	75 pounds
	Florida -- Early and Midseason, October 1 to April 15; Valencia, February 1 to July 31	90 pounds
	Texas -- September 25 to May 15	85 pounds
Grapefruit:	Arizona -- November 1 to July 31	64 pounds
	California -- Desert, November 15 to July 15	64 pounds
	Other Areas, March 20 to October 30	67 pounds
	Florida -- September 10 to July 31	85 pounds
	Texas -- October 1 to May 30	80 pounds
Lemons:	*Arizona* -- August 15 to March 1	76 pounds
	California -- August 1 to July 31	76 pounds
Limes:	Florida -- April 1 to March 31	88 pounds
Tangelos:	Florida -- October 15 to April 15	90 pounds
Tangerines:	Arizona -- November 1 to February 1	75 pounds
	California -- November 1 to May 15	75 pounds
	Florida -- October 1 to April 1	95 pounds
Temples:	Florida -- December 1 to May 1	90 pounds

Crop Values and Prices

Crop value estimates in this report cover the growers' marketing season or crop year and should not be confused with cash receipts from these crops which are on a calendar year. The following procedure is using marketing year average price **(MYAP)** at equivalent packinghouse-door fresh and processed sales to compute State values for all commodity groups:

State Value Computation Procedure

Fresh Market Value = Fresh Market MYAP x Fresh Market Utilization

Process Market Value = Process Market MYAP x Process Market Utilization

"All" Sales Value = Fresh Market Value + Process Market Value

$$\text{"All" Sales MYAP} = \frac{\text{"All" Sales Value}}{\text{"All" Sales Utilization}}$$

For commodities with components not identified by market channel, substitute breakdown name for fresh/processing market and use the same procedure. The procedure used for computation of U.S. marketing year average price follows:

U.S. MYAP Computation Procedure

Fresh Market MYAP = **Fresh Market Value for all States**
Fresh Market Utilization for all States

Process Market MYAP = **Process Market Value for all States**
Process Market Utilization for all States

"All" Sales MYAP = **Sales Value for all States**
Sales Utilization for all States

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The next "**Citrus Fruits**" report will be released in **September 1992**.