

1998
TULARE COUNTY
AGRICULTURAL
CROP & LIVESTOCK
REPORT





Tulare County Agricultural Commissioner/Sealer

Lenord Craft, Agricultural Commissioner
Sealer of Weights and Measures
Gary Kunkel, Assistant
Commissioner/Sealer

WILLIAM (BILL) J. LYONS, JR., SECRETARY
CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE

1999

AND

THE HONORABLE BOARD OF SUPERVISORS
COUNTY OF TULARE

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It is my pleasure to submit the Annual Tulare County Crop and Livestock Report for 1998. The annual report is produced in accordance with Sections 2272 & 2279 of the California Food and Agricultural Code and summarizes the acreage, production and valuation of Tulare County's agricultural commodities. This publication is the result of information gathered from many sources. The figures represent gross returns to the producer and do not indicate actual net profit.

1998 will be remembered for El Niño's devastating effects to the agricultural industry. Compounding these weather-related problems was the near record freeze of citrus crops that occurred in the last part of December. It should be noted that the economic effects of the freeze will not be reflected in this report, but rather in the 1999 crop year compilation. The lowered yields and reductions in fruit quality of other commodities were the direct result of cool temperatures and sporadic precipitation throughout the spring and early summer.

The Dairy Industry continues to lead Tulare County's agriculture. Although many other commodities experienced declines, milk and milk products experienced a 25% improvement. This was primarily due to an increase of \$2.41 per hundredweight for market milk. This price improvement, coupled with an increase in production, resulted in a record total value of \$898.8 million for the commodity. This allows us to report a seventh consecutive record year for Tulare County with gross receipts totaling \$2,924,235,800 representing a 1% improvement over 1997. Without the diversity of Tulare County's largest industry, agriculture, the weather-related problems of this El Niño year would have been devastating to our economic base.

I wish to express my sincere appreciation to the many producers, processors and agencies, both private and governmental, who contributed information to this report. I would like to thank the members of my staff, particularly Bob Chilton, Valerie Williams, and Dennis Haines whose hard work made the publication of this report possible.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Lenord L. Craft", is written over a horizontal line.

Lenord L. Craft
Agricultural Commissioner/Sealer

Tulare County Table Grapes

A century and a half ago, two men found wealth in the soil of California.

The most celebrated is James Marshall, who discovered gold at Sutter's mill in 1848. But the man who is arguably more important is William Wolfskill. A former Kentucky trapper, Wolfskill is credited with planting the first table grape vineyard near present-day Los Angeles in 1839.

Marshall's discovery created fortunes for a few, brief years. But in the spring, as the sun rises over the Sierra Nevada mountains and warms the vineyards of Tulare County, Wolfskill's efforts pay off year after year.

As the second leading county in agricultural production, Tulare County benefits greatly from the soil, climate and innovation that creates the world's food and fiber - the real gold of California. Through the years, grapes have been a key component in Tulare County's diverse agricultural output.

After that first planting in Southern California, table grape vineyards spread quickly up the San Joaquin Valley and were well established in Tulare County by the turn of the century. Today, more than 25,000 acres of Tulare County are planted in table grape vineyards, according to California Agriculture statistics. For 1998, those vineyards produced a crop valued at more than \$250 million*.

The year began with the promise of a near-record harvest of 80.75 million 21-pound boxes, a sizeable portion of which would come from Tulare County.

But the wet El Niño spring took its toll and the estimates got smaller. By the time harvest had begun in Tulare County, the estimate was down to 76 million box units. In the end, California's table grape crop reached an estimated 65.4 million 21-pound boxes. It fell far short of the early season promise, but was consistent with the state's five-year average in both volume and value.

That consistent value is due in large part to the strong worldwide demand for California table grapes. Research by the California Table Grape Commission shows that, given a choice, an overwhelming percentage of shoppers prefer grapes from California, as opposed to any other location. And with new and expanding markets around the world, table grapes are becoming an international favorite. Hong Kong, Taiwan, Singapore and the Philippines are steady customers for California fresh grapes. In recent years, new markets such as China, Korea and Vietnam joined the export list.

Looking forward to 1999 and beyond, the prospects for California table grapes, including Tulare County, looks even better. New information about the potential health benefits of fresh grapes - fighting cancer and heart disease - holds the promise of even stronger consumer demand. As foreign markets expand and the industry reaches expected exports of \$250 million by the year 2000, Tulare County will continue to profit.

The gold rush is over. But the riches that are found in the state's vineyards will continue to grow for generations to come.

** Exact value is not known. Estimate based on assumptions of vineyards in production multiplied by state average of box per acre (800) multiplied by 1998 industry average box price (\$12.21).*

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**Photograph above courtesy of Sherry Pinkham Exeter, Calif.*

TULARE COUNTY ACREAGE-PERMANENT PLANTINGS

ORCHARD CROPS	BEARING ACREAGE	NON-BEARING ACREAGE	TOTAL ACREAGE
CITRUS			
Grapefruit & Pummelos	1,539	982	2,521
Lemons	3,743	76	3,819
Limes	5	0	5
Navels	72,048	3,792	75,840
Valencias	29,738	1,239	30,977
Tangerines	2,178	847	3,025
TOTAL	109,251	6,936	116,187
DECIDUOUS AND GRAPES			
Almonds	13,395	2,181	15,576
Apples	1,374	72	1,446
Apricots	1,010	65	1,075
Avocados	647	0	647
Cherries	476	573	1,049
Figs	61	0	61
Grapes			
Raisin	33,869	283	34,152
Table	29,696	3,795	33,491
Wine	12,660	2,225	14,885
Kiwifruit	2,043	42	2,085
Nectarines	14,282	3,350	17,632
Olives	16,621	875	17,496
Peaches			
Cling	1,490	62	1,552
Freestone	11,679	879	12,558
Pears & Asian Pears	531	5	536
Pecans	889	37	926
Persimmons	715	15	730
Pistachio Nuts	7,266	2,050	9,316
Plums	16,918	1,673	18,591
Pomegranates	1,256	39	1,295
Prunes	6,093	2,489	8,582
Quince	176	17	193
Walnuts	27,346	3,038	30,384
Miscellaneous *	254	220	474
TOTAL			
Total Grapes	76,225	6,303	82,528
Total Orchard Crops	233,773	24,618	258,391
GRAND TOTAL	309,998	30,921	340,919

* Includes: Black Walnuts, Chestnuts, Dates, Grape Rootstock, Guava/Feijoa, Jojoba, Plumcot and Pluot.

Field Crops

Most growers opted for shorter-season crops due to rainfall which disrupted planting schedules. Several blocks which might have been planted to field crops were flooded early on and were used as pasture or left fallow for the year instead. Ultimately, these weather-related planting problems resulted in an overall loss of just under \$76,000,000 for the field crop section.

	Year	Harvested Acreage	Per Acre	Production		Value	
				Total	Unit	Per Unit	Total
Alfalfa - Hay	1998	104,000	7.50	780,000	Ton	101.00	78,780,000
	1997	84,800	9.25	784,000	Ton	128.00	100,352,000
Silage ^a	1998	X	4.00	139,000	Ton	24.30	3,378,000
	1997	X	3.00	84,900	Ton	28.00	2,377,000
Barley	1998	7,000	1.80	12,600	Ton	99.00	1,247,000
	1997	20,000	2.30	46,000	Ton	120.00	5,520,000
Beans - Dry	1998	7,600	1.22	9,270	Ton	582.00	5,395,000
	1997	7,000	1.38	9,660	Ton	540.00	5,216,000
Corn - Grain	1998	35,000	5.00	175,000	Ton	85.00	14,875,000
	1997	25,400	4.80	122,000	Ton	120.00	14,640,000
Silage	1998	104,000	24.30	2,527,000	Ton	19.50	49,276,000
	1997	98,000	24.80	2,430,000	Ton	19.50	47,385,000
Cotton - Lint ^b	1998	62,100	844.00	106,000	Bale	72.90	38,595,000
	1997	88,300	1,250.00	223,000	Bale	75.00	83,617,000
Seed	1998	X	X	38,000	Ton	179.00	6,802,000
	1997	X	X	80,500	Ton	183.00	14,732,000
Pasture & Range-Irrigated	1998	86,200	X	X	Acre	110.00	9,482,000
	1997	60,200	X	X	Acre	110.00	6,622,000
Native	1998	615,000	X	X	Acre	12.00	7,380,000
	1997	615,000	X	X	Acre	12.00	7,380,000
Other	1998	73,800	X	X	Acre	15.00	1,107,000
	1997	63,000	X	X	Acre	15.00	945,000
Silage - Small Grain ^c	1998	71,500	14.80	1,058,000	Ton	16.70	17,669,000
	1997	52,600	16.00	842,000	Ton	17.00	14,314,000
Sorghum Grain	1998	504	2.00	1,010	Ton	80.00	80,800
	1997	5,310	2.25	11,900	Ton	102.00	1,214,000
Sugar Beets	1998	3,760	28.90	109,000	Ton	32.50	3,542,000
	1997	2,080	30.20	65,800	Ton	36.10	2,267,000

Field Crops continued

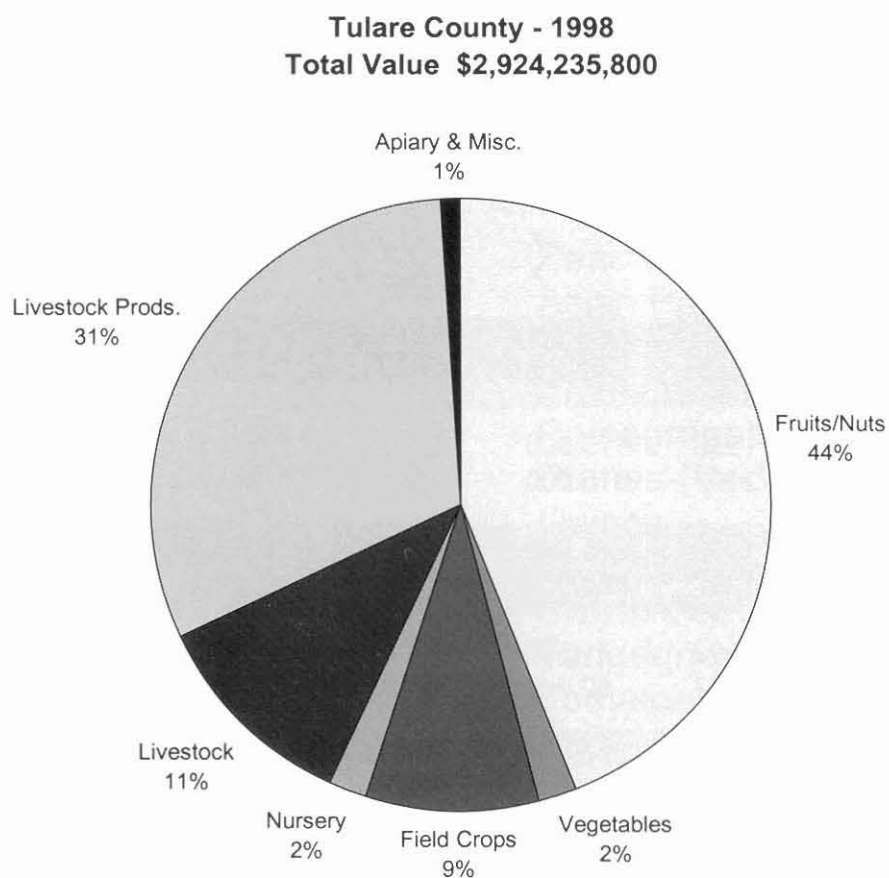
	Year	Harvested Acreage	Per Acre	Production		Per Unit	Value	
				Total	Unit		Total	
Wheat	1998	59,100	1.85	109,000	Ton	95.00	10,355,000	
	1997	49,000	2.60	127,000	Ton	134.00	17,018,000	
Miscellaneous ^d	1998	12,795	X	X	X	X	9,208,000	
	1997	20,895	X	X	X	X	9,602,000	
TOTAL	1998	1,242,359					257,171,800	
	1997	1,191,585					333,201,000	

a Green weight basis.

b Yield per acre in pounds lint, production total in 495 lbs. net weight bales, unit value in dollars per lint hundredweight.

c Includes: Barley, Oats, and Winter Forage.

d Includes: Bean Screenings & Straw, Lima Beans, Oat Grain, Oat Hay, Rye Grain, Safflower, Soybeans, Straw, and Sudan Grass.



Vegetable Crops

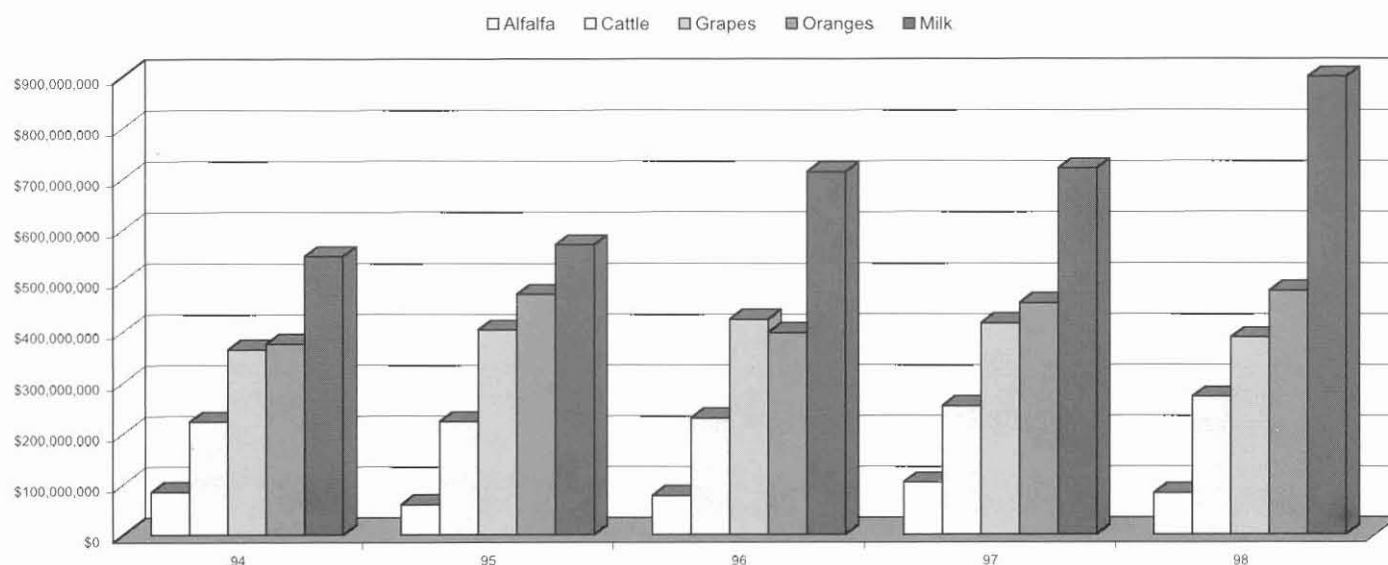
Cucumbers reached \$1,000,000 in total revenue for the first time in several years. Prices and yields varied, but a moderate increase in vegetable acreage led to an overall increase of 2.6% over 1997.

	Year	Harvested Acreage	Production		Unit	Value	
			Per Acre	Total		Per Unit	Total
Broccoli	1998	1,653	5.30	8,760	Ton	432.00	3,784,000
	1997	1,000	4.22	4,220	Ton	360.00	1,519,000
Cauliflower	1998	748	5.45	4,080	Ton	461.00	1,881,000
	1997	540	4.13	2,230	Ton	460.00	1,026,000
Cucumbers ^a ..	1998	125	10.60	1,320	Ton	760.00	1,003,000
	1997	X	X	X	Ton	X	X
Snap Beans - Fresh	1998	2,749	3.07	8,440	Ton	1,290.00	10,888,000
	1997	2,170	4.16	9,030	Ton	1,560.00	14,087,000
Sweet Corn	1998	635	11.60	7,370	Ton	245.00	1,806,000
	1997	1,300	9.62	12,500	Ton	400.00	5,000,000
Tomatoes - Fresh	1998	1,369	12.70	17,400	Ton	531.00	9,239,000
	1997	927	14.10	13,100	Ton	555.00	7,270,000
Miscellaneous *	1998	5,522	X	X	X	X	17,164,000
	1997	3,892	X	X	X	X	15,723,000
TOTAL	1998	12,801					45,765,000
	1997	9,829					44,625,000

* Includes: Artichokes, Beets, Bittermelon, Bokchoy, Cabbage, Cactus, Camote, Cantaloupe, Cardis, Carrots, Chayote, Collard Greens, Dill, Daikon, Eggplant, Filipino Squash, Garlic, Gourds, Honeydew Melons, Kale, Kang Kong, Mushrooms, Mustard Greens, Lettuce, Napa Cabbage, Okra, Onions, Parsley, Peas (English & Sugar), Assorted Peppers, Potatoes, Pumpkins, Radishes, Saluyot, Sinqua/Moqua, Spinach, Squash, Sugar Cane, Sweet Potatoes, Swiss Chard, Tarragon, Tomatillos, Tomatoes (processed), Turnips, and Watermelons.

^a not reported in 1997.

History of Key Commodities



Fruit and Nut Crops

Precipitation during prime pollination periods resulted in decreased yields for nearly all fruit and nut commodities. Only persimmons, oranges, and avocados exhibited increased yields. Unfortunately, the increases in prices paid did not completely offset the declines in production for most commodities.

	Year	Harvested creage	Per Acre	Production		Value	
				Total	Unit	Per Unit	Total
Almonds - Meats	1998	13,395	0.82	11,000	Ton	3,400.00	37,400,000
	1997	12,412	1.09	13,500	Ton	3,100.00	41,850,000
Hulls	1998	X	X	27,900	Ton	80.00	2,232,000
	1997	X	X	34,300	Ton	90.00	3,087,000
Apples	1998	1,374	7.82	10,700	Ton	852.00	9,116,000
	1997	1,986	10.60	21,100	Ton	670.00	14,137,000
Apricots	1998	1,010	5.31	5,360	Ton	1,060.00	5,682,000
	1997	1,004	6.15	6,170	Ton	835.00	5,152,000
Avocados	1998	647	6.06	3,920	Ton	760.00	2,979,000
	1997	747	4.92	3,680	Ton	816.00	3,003,000
Cherries	1998	476	1.61	766	Ton	6,880.00	5,270,000
	1997	722	1.68	1,210	Ton	4,190.00	5,070,000
Grapes - Total	1998	76,225	X	X	X	X	387,027,000
	1997	74,289	X	X	X	X	415,023,000
Raisin Varieties	1998	33,869	8.12	X	X	X	X
	1997	34,726	10.10	X	X	X	X
Canned	1998	X	X	18,200	Ton	229.00	4,168,000
	1997	X	X	25,100	Ton	248.00	6,225,000
Crushed ^a	1998	X	X	63,300	Ton	193.00	12,217,000
	1997	X	X	102,900	Ton	182.00	18,564,000
Dried ^b	1998	X	X	24,600	Ton	1,260.00	30,996,000
	1997	X	X	33,700	Ton	1,090.00	36,733,000
Fresh	1998	X	X	70,800	Ton	1,050.00	74,340,000
	1997	X	X	84,200	Ton	1,020.00	85,884,000
Table Varieties	1998	29,696	8.50	X	X	X	X
	1997	27,425	10.80	X	X	X	X
Crushed	1998	X	X	57,800	Ton	142.00	8,208,000
	1997	X	X	77,700	Ton	154.00	11,966,000
Fresh	1998	X	X	195,000	Ton	1,120.00	218,400,000
	1997	X	X	219,000	Ton	966.00	211,554,000

Fruit and Nut Crops continued

	Year	Harvested Acreage	Production		Unit	Value	
			Per Acre	Total		Per Unit	Total
Wine Varieties	1998	12,660	10.30	X	X	X	X
	1997	12,138	12.60	X	X	X	X
Crushed	1998	X	X	129,000	Ton	292.00	37,668,000
	1997	X	X	145,000	Ton	275.00	39,875,000
Juice	1998	X	X	1,630	Ton	632.00	1,030,000
	1997	X	X	8,150	Ton	518.00	4,222,000
Grapefruit - Fresh °	1998	1,539	8.51	13,100	Ton	489.00	6,406,000
	1997	1,164	13.10	15,200	Ton	518.00	7,874,000
Kiwifruit	1998	2,043	6.86	14,000	Ton	1,820.00	25,480,000
	1997	2,121	8.66	18,400	Ton	1,290.00	23,736,000
Lemons - Fresh	1998	3,743	14.00	36,200	Ton	621.00	22,480,000
	1997	4,086	19.50	53,400	Ton	635.00	33,909,000
Processed	1998	X	X	16,200	Ton	84.00	1,361,000
	1997	X	X	26,300	Ton	95.00	2,498,000
Nectarines - Fresh	1998	14,282	5.16	73,700	Ton	766.00	56,454,000
	1997	14,469	8.23	119,000	Ton	705.00	83,895,000
Olives - Canning	1998	16,621	3.07	50,800	Ton	520.00	26,416,000
	1997	17,249	2.24	34,400	Ton	696.00	23,942,000
Other	1998	X	X	337	Ton	526.00	177,000
	1997	X	X	4,250	Ton	230.00	978,000
Oranges - Navel	1998	72,048	11.40	674,000	Ton	479.00	322,846,000
	1997	72,723	10.80	667,000	Ton	451.00	300,817,000
Processed	1998	X	X	148,000	Ton	27.00	3,996,000
	1997	X	X	118,000	Ton	26.10	3,080,000
Valencia	1998	29,738	12.80	305,000	Ton	472.00	143,960,000
	1997	31,494	12.10	312,000	Ton	466.00	145,392,000
Processed	1998	X	X	76,200	Ton	101.00	7,696,000
	1997	X	X	68,600	Ton	81.60	5,598,000
Peaches - Cling	1998	1,490	19.00	28,300	Ton	225.00	6,368,000
	1997	1,403	22.00	30,900	Ton	208.00	6,427,000
Freestone - Fresh	1998	11,679	7.46	58,600	Ton	758.00	44,419,000
	1997	10,664	10.50	85,500	Ton	644.00	55,062,000
Processed	1998	X	X	28,600	Ton	188.00	5,377,000
	1997	X	X	26,400	Ton	204.00	5,386,000

Fruit and Nut Crops continued

	Year	Harvested Acreage	Production		Unit	Value	
			Per Acre	Total		Per Unit	Total
Pears & Asian Pears	1998	531	3.42	1,820	Ton	2,350.00	4,277,000
	1997	630	4.91	3,090	Ton	1,510.00	4,666,000
Pecans	1998	889	0.75	667	Ton	3,510.00	2,341,000
	1997	1,014	1.20	1,220	Ton	2,120.00	2,586,000
Persimmons	1998	715	6.75	4,830	Ton	1,150.00	5,554,000
	1997	716	5.04	3,610	Ton	828.00	2,989,000
Pistachio Nuts	1998	7,266	1.07	7,770	Ton	2,220.00	17,249,000
	1997	6,441	1.47	9,470	Ton	2,420.00	22,917,000
Plums - Fresh	1998	16,918	5.03	85,100	Ton	784.00	66,718,000
	1997	17,698	7.44	132,000	Ton	620.00	81,840,000
Pomegranates	1998	1,256	2.01	2,520	Ton	1,350.00	3,402,000
	1997	1,261	3.85	4,850	Ton	739.00	3,584,000
Prunes - Processed	1998	6,093	2.53 ^d	14,600	Ton	846.00	12,352,000
	1997	6,551	2.91	18,700	Ton	851.00	15,914,000
Fresh ^e	1998	X	X	840	Ton	1,750.00	1,470,000
	1997	X	X	1,210	Ton	1,450.00	1,754,000
Quince	1998	176	8.16	1,440	Ton	996.00	1,434,000
	1997	198	9.11	1,800	Ton	603.00	1,085,000
Tangerines ^f	1998	2,178	6.26	13,600	Ton	835.00	11,356,000
	1997	2,224	10.30	22,900	Ton	654.00	14,977,000
Walnuts	1998	27,346	1.44	39,400	Ton	990.00	39,006,000
	1997	25,409	1.59	40,400	Ton	1,410.00	56,964,000
Miscellaneous ^g	1998	216	X	X	X	X	2,232,000
	1997	245	X	X	X	X	2,050,000
TOTAL	1998	309,894					1,290,533,000
	1997	308,920					1,397,242,000

a Includes green weight raisins for distillery materials and juice pack.

b A combined value reflecting free and reserve tonnage.

c Includes: Pummelos and Hybrids.

d Dry weight basis.

e Green weight basis.

f Includes: Tangelos and Tangors.

g Includes: Bushberries, Chestnuts, Figs, Guava/Feijoa, Jojoba, Limes, Plumcots, Pluots, Processed Plums, and Strawberries.

Nursery Products

Meeting the changes in consumer markets (for example, the rise in popularity of wines and wine varieties) fueled a 154% increase in grape and berry vine totals. Forces like new construction and renewed gardening popularity have helped to continue growth of the nursery industry -- up 26% overall.

	Year	Quantity Sold	Unit	Per Unit	Value Total
Citrus and Subtropical Trees	1998	750,000	Each	7.98	5,985,000
	1997	522,000	Each	8.38	4,374,000
Deciduous Fruit and Nut Trees	1998	683,000	Each	6.58	4,494,000
	1997	728,000	Each	6.86	4,994,000
Grape & Berry Vines	1998	7,031,000	Each	1.51	10,617,000
	1997	5,763,000	Each	.724	4,172,000
Foliage Plants & Cut Flowers	1998	X	X	X	1,949,000
	1997	X	X	X	1,211,000
Ornamental Trees & Shrubs	1998	4,055,000	Each	9.77	39,617,000
	1997	3,848,000	Each	8.96	34,478,000
Miscellaneous *	1998	X	X	X	2,644,000
	1997	X	X	X	2,594,000
TOTAL	1998				65,306,000
	1997				51,823,000

* Includes: Aquatics, Citrus (Buds, Cuttings & Scions), Christmas Trees, Ground Covers, Irises, Landscape Olive Trees, Palm Trees, Turf, and Vegetable & Flower Plants in Flats.

Apiary Products

The increased competition from foreign honey sources continues to depress the price of domestic honey. A re-evaluation of hive density estimates in citrus groves led to an increase in total value of this section.

	Year	Total	Unit	Per Unit	Value Total
Honey - Orange ^a	1998	13,728,000	Lb.	.66	9,060,000
	1997	3,193,000	Lb.	.77	2,459,000
Other	1998	2,450,000	Lb.	.59	1,446,000
	1997	2,781,000	Lb.	.66	1,835,000
Beeswax	1998	142,000	Lb.	1.47	209,000
	1997	161,000	Lb.	1.79	288,000
Pollination ^b	1998	47,000	Colony	32.20	1,513,000
	1997	60,700	Colony	32.30	1,961,000
TOTAL	1998				12,228,000
	1997				6,543,000

^a From bee colonies registered in Tulare County during 1998 citrus bloom period.

^b Estimated number of colonies required for adequate pollination.

Livestock and Poultry

Turkey numbers dropped dramatically (45%), but were offset by a 186% increase in price. The other categories remained relatively unchanged, except for cattle and calves which are primarily affected by the continued growth of the dairy industry.

	Year	No. of Head	Total Liveweight	Unit	Value Per Unit	Total
Cattle & Calves	1998	412,000	X	Head	658.00	271,096,000
	1997	382,000	X	Head	662.00	252,884,000
Lambs	1998	12,800	1,215,000	Lb.	.748	909,000
	1997	12,100	1,150,000	Lb.	.916	1,053,000
Hogs & Pigs	1998	283,000	X	Head	77.70	21,989,000
	1997	278,000	X	Head	124.00	34,472,000
Turkeys	1998	799,000	19,107,000	Lb.	1.20	22,928,000
	1997	1,457,000	33,745,000	Lb.	.42	14,173,000
Miscellaneous *	1998	X	X	X	X	17,197,000
	1997	X	X	X	X	13,498,000
TOTAL	1998					334,119,000
	1997					316,080,000

* Includes: Aquaculture, Beneficial Organisms, Chickens, Escargot, Fish Bait, Game birds, Goats, Pet Food, Pigeons, Pullets, Rabbits, Sheep and Turkey Breeders.

Livestock and Poultry Products

A substantial increase of 16% in milk prices and improved demand for dairy products, especially cheese, contributed to a \$172,000,000 increase for this category.

	Year	Production	Unit	Value Per Unit	Total
Manure ^a	1998	1,855,000	Ton	5.56	10,314,000
	1997	1,789,000	Ton	5.55	9,929,000
Milk - Market	1998	60,421,000	Cwt.	14.82	895,439,000
	1997	57,725,000	Cwt.	12.41	716,367,000
Manufacturing	1998	257,000	Cwt.	13.15	3,380,000
	1997	205,000	Cwt.	11.57	2,372,000
Miscellaneous ^b	1998	X	X	X	5,418,000
	1997	X	X	X	13,484,000
TOTAL	1998				914,551,000
	1997				742,152,000

^a Includes: Dairy and Poultry Manure. The figure for 1997 has been revised.

^b Includes: Turkey Hatching Eggs, Chicken Eggs (Market & Hatching), Goat Milk, and Wool.

Seed Crops

Lower yields were realized due to weather-related planting and harvesting delays culminating in a 26% reduction in this category

	Year	Harvested Acreage	Per Acre	Production		Value	
				Total	Unit	Per Unit	Total
Cotton - Registered or Certified ^a	1998	2,780	X	1,390	Ton	348.00 ^b	484,000
	1997	3,992	X	3,470	Ton	318.00	1,103,000
Miscellaneous ^c	1998	1,402	X	X	X	X	951,000
	1997	1,279	X	X	X	X	837,000
TOTAL	1998	1,402					1,435,000
	1997	1,279					1,940,000

^a Not included in total acreage for Seed Crops.

^b Includes \$40 per acre approval.

^c Includes: Alfalfa, Blackeye Cow Peas, Cucumbers, Lettuce, Oats, Squash, Watermelon and Wheat.

Industrial Crops

A slight decrease in the amount of timber harvested, coupled with a reduction in price, resulted in a 37% decrease in total revenue.

	Reporting Year	Production Total	Unit	Value	
				Per Unit	Total
Timber Harvested ^a	1998	9,272,000	Board Ft.	0.235	2,179,000
	1997	9,603,000	Board Ft.	0.420	4,033,000
Miscellaneous ^b	1998	X	X	X	948,000
	1997	X	X	X	943,000
TOTAL	1998				3,127,000
	1997				4,976,000

^a Previous year's production & value based on information provided by Timber Tax Division, Property Taxes Dept., State Board of Equalization.

^b Includes: Biomass, Firewood, and Walnut Stumps.

SUMMARY

COMMODITY	YEAR	HARVESTED ACREAGE	VALUE
FIELD CROPS	1998	1,242,359	257,171,800
	1997	1,191,585	333,201,000
VEGETABLE CROPS	1998	12,801	45,765,000
	1997	9,829	44,625,000
FRUIT AND NUT CROPS	1998	309,894	1,290,533,000
	1997	308,920	1,397,242,000
NURSERY PRODUCTS	1998	X	65,306,000
	1997	X	51,823,000
APIARY PRODUCTS	1998	X	12,228,000
	1997	X	6,543,000
LIVESTOCK AND POULTRY	1998	X	334,119,000
	1997	X	316,080,000
LIVESTOCK AND POULTRY PRODUCTS	1998	X	914,551,000
	1997	X	742,152,000
SEED CROPS	1998	1,402	1,435,000
	1997	1,279	1,940,000
INDUSTRIAL CROPS	1998	X	3,127,000
	1997	X	4,976,000
GRAND TOTAL	1998	1,566,456	2,924,235,800
	1997	1,511,613	2,898,582,000

MILLION DOLLAR PRODUCTS

1998 Ranking

1997 Ranking

1. Milk	898,819,000	1
2. Oranges - Navel & Valencia	478,498,000	2
3. Grapes	387,027,000	3
4. Cattle & Calves	271,096,000	4
5. Alfalfa - Hay & Silage	82,158,000	5
6. Plums	66,718,000	8
7. Corn - Grain and Silage	64,151,000	10
8. Nectarines	56,454,000	7
9. Peaches - Cling & Freestone	56,164,000	9
10. Cotton - Lint & Seed	45,881,000	6
11. Almonds	39,632,000	12
12. Nursery - Ornamental Trees & Shrubs	39,617,000	14
13. Walnuts	39,006,000	11
14. Olives	26,590,000	16
15. Kiwifruit	25,480,000	15
16. Lemons	23,841,000	13
17. Turkeys	22,928,000	24
18. Hogs & Pigs	21,989,000	15
19. Pasture & Range	17,969,000	22
20. Silage - Small Grain	17,669,000	23
21. Pistachio Nuts	17,249,000	18
22. Prunes	13,822,000	19
23. Tangerines	11,356,000	21
24. Snap Beans - Fresh	10,888,000	26
25. Nursery - Grape & Berry Vines	10,617,000	39
26. Honey	10,506,000	38
27. Wheat - Grain & Seed	10,437,000	20
28. Manure	10,314,000	27
29. Tomatoes	9,239,000	29
30. Apples	9,116,000	25
31. Grapefruit	6,406,000	28
32. Nursery - Citrus & Subtropical Trees	5,985,000	37
33. Apricots	5,682,000	32
34. Persimmons	5,554,000	43
35. Beans - Dry	5,395,000	31
36. Cherries	5,270,000	33
37. Nursery - Deciduous Fruit & Fruit Trees	4,494,000	35
38. Pears & Asian Pears	4,277,000	36
39. Broccoli	3,784,000	47
40. Sugar Beets	3,542,000	45
41. Pomegranates	3,402,000	41
42. Avocados	2,979,000	42
43. Pecans	2,341,000	44
44. Timber Harvested	2,179,000	40
45. Nursery - Foliage Plants & Cut Flowers	1,949,000	49
46. Cauliflower	1,881,000	52
47. Corn - Sweet	1,806,000	34
48. Pollination	1,511,000	46
49. Quince	1,434,000	50
50. Barley	1,247,000	30
51. Cucumbers	1,003,000	**

** Not reported in 1997

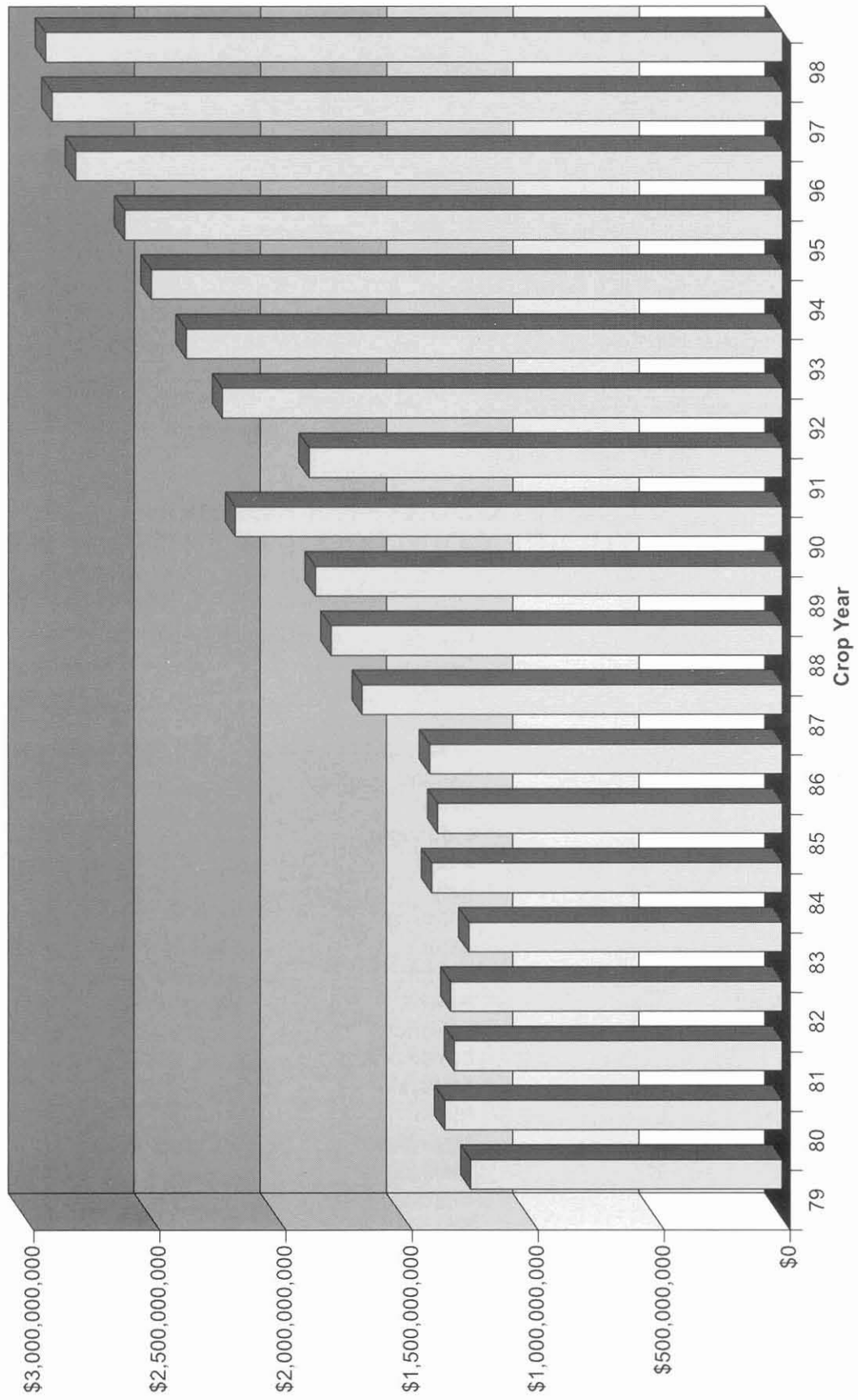
**TWENTY YEAR COMPARISON OF AGRICULTURE
INCOME IN TULARE COUNTY
1979-1998**

1979	\$1,239,814,400	1989	\$1,853,101,600
1980	\$1,340,559,400	1990	\$2,169,448,000
1981	\$1,301,921,200	1991	\$1,878,425,400
1982	\$1,316,016,300	1992	\$2,221,612,100
1983	\$1,245,238,100	1993	\$2,365,202,000
1984	\$1,392,273,500	1994	\$2,504,944,000
1985	\$1,368,387,100	1995	\$2,611,088,000
1986	\$1,400,743,000	1996	\$2,805,452,000
1987	\$1,667,201,900	1997	\$2,898,582,000
1988	\$1,791,151,200	1998	\$2,924,235,800

**STANDARD CARTON WEIGHTS (LBS.)
FOR FRESH MARKET COMMODITIES**

Apples	40	Peaches-Freestone . .	25
Apricots	24	Asian Pears/Pears . . .	11
Avocados	25	Persimmons	11
Broccoli	23	Plums	28
Cauliflower	25	Pomegranates	28
Cherries	18	Prunes-Fresh	28
Grapes-Table	21	Quince	22
Grapefruit	36	Snap Beans	30
Kiwifruit	7½	Sweet Corn	50
Lemons	40	Tangerines	25
Nectarines	25	Tomatoes	25
Oranges	37½		

Tulare County **20 years of agricultural income**



1998 PRODUCE EXPORTS TOP TEN COUNTRIES

COUNTRY	# CONTAINERS CERTIFIED	PHYTOSANITARY CERT. ISSUED
1. Japan	6,173,414	5,957
2. Taiwan	2,452,742	2,534
3. Mexico	2,063,069	1,192
4. Republic of Korea	1,843,536	1,669
5. Australia	681,536	635
6. Philippines	602,705	449
7. New Zealand	545,293	694
8. British Columbia	534,031	1083
9. Guatemala	404,960	356
10. Venezuela	315,186	322
TOTAL	15,616,472	14,891

COUNTRIES RECEIVING TULARE COUNTY COMMODITIES IN 1998

Austria	Germany	Oman
Argentina	Greece	Panama
Australia	Guatemala	Paraguay
Bahrain	Honduras	Peoples Rep. of China
Bahamas	Hong Kong	Peru
Belgium	Iceland	Philippines
Bolivia	India	Portugal
Brazil	Indonesia	Puerto Rico
British Columbia	Israel	Republic of Korea
Brunei Dar Ussalam	Italy	Russian Federation
Bulgaria	Jamaica	Saudi Arabia
Cambodia	Japan	Singapore
Canada	Jordan	South Africa
Canary Island	Kuwait	Spain
Cayman Islands	Lebanon	Sri Lanka
Chile	Luxembourg	Sweden
Colombia	Malaysia	Switzerland
Costa Rica	Malta	Taiwan
Cyprus	Mauritius	Thailand
Denmark	Mexico	Trinidad & Tobago
Dominican Republic	Morocco	Turkey
Ecuador	Nepal	United Arab Emirates
Egypt	Netherlands	United Kingdom
El Salvador	Netherlands Antilles	Uruguay
Fiji	New Caledonia	Venezuela
Finland	Nicaragua	Vietnam
France	New Zealand	
French Polynesia	Norway	

TULARE COUNTY SUSTAINABLE AGRICULTURAL REPORTING

Pest	Agent/Mechanism	Program Scope
COUNTY BIOLOGICAL CONTROL		
Ash Whitefly <i>Siphoninus phillyreae</i>	Parasitic Wasp <i>Encarsia inaron</i> Ladybird Beetle <i>Cleitostethus arcuatus</i>	Upon demand Upon demand
Bull Thistle <i>Cirsium vulgare</i>	Seedhead Gall Fly <i>Urophora stylata</i>	2 sites
Comstock Mealybug <i>Pseudococcus comstocki</i>	Parasitic Wasps <i>Pseudaphycus malinus</i> <i>Allotropa burrelli</i>	Upon demand
Cottony-Cushion Scale <i>Icerya purchasi</i>	Parasitic Fly <i>Cryptochetum iceryae</i> Vedalia Beetle <i>Rodolia cardinalis</i>	4 sites 4 sites
Italian Thistle <i>Carduus pycnocephalus</i>	Seed Head Weevil <i>Rhinocylus conicus</i>	3 sites
Milk Thistle <i>Silybum marianum</i>	Seed Head Weevil <i>Rhinocylus conicus</i>	Upon demand
Mulberry Whitefly <i>Tetraleurodes mori</i>	Ladybird Beetle <i>Delphastus dejavu</i>	Upon demand
Puncture Vine <i>Tribulus terrestris</i>	Seed & Stem Weevils <i>Microlarinus lareynii</i> <i>Microlarinus lypriformis</i>	Upon demand
Russian Thistle <i>Salsola australis</i>	Casebearer Moth <i>Coleophora klimeschiella</i>	Upon demand
Silverleaf Whitefly <i>Bemesia argentifolia</i>	Parasitic Wasps <i>Eretmocerus spp.</i>	1 site
Western Grapeleaf Skeletonizer <i>Harrisina brillians</i>	Virus collection for CDFA Biological Control Lab	Upon demand
Yellow Star Thistle <i>Centaurea solstitialis</i>	Flowerhead Bud Weevil <i>Bangasternus orientalis</i> Flower Weevil <i>Larinus curtus</i> Hairy Weevil <i>Eustenopus villosus</i> Peacock Fly <i>Chaetorellia spp.</i>	3 sites 1 site 13 sites 5 sites

County Pest Detection

Target Pest	Host Crops	Number of Traps
European Corn Borer	Corn/Sorghum	10
European Pine Shoot Moth	Pines	10
Gypsy Moth	Shade Trees	146
Japanese Beetle	Turf/Flowers	84
Khapra Beetle	Stored Food Products	59
Mediterranean Fruit Fly	Fruit Trees	529
Melon Fruit Fly	Vegetables	91
Mexican/Caribbean Fruit Fly	Fruit Trees	154
Oriental Fruit Fly	Fruit Trees	89

Sustainable Agriculture Reporting continued

COUNTY PEST ERADICATION

Pest	Agent/Mechanism	Program Scope
Alligatorweed <i>Alternanthera philoxeroides</i>	Mechanical/Chemical Control	71 sites
Hydrilla <i>Hydrilla verticillata</i>	Chemical Control	2 sites
Pink Bollworm <i>Pectinophora gossypiella</i>	Mechanical/Host Free Period	62,145 acres
Scotch Thistle <i>Onopordum acanthium</i>	Mechanical/Chemical Control	General Distribution
Camelthorn <i>Alhagi pseudoalhagi</i>	Mechanical/Chemical Control	2 sites

COUNTY PEST EXCLUSION

Pest Rejections

Citrus Tristeza Virus	Wholesale	1 rejection/ destroyed
Q-Rated Soil Mealybug <i>Rhizoecus hibisci</i>	Retail/Wholesale	3 rejections/ destroyed
Q-Rated Snail <i>Bradybaenidae similis</i>	Wholesale	1 rejection/ destroyed

Phytosanitary Trapping

Phytosanitary Trapping	Host Crop	Number of Traps
Apple Maggot	Apples	129
Mediterranean Fruit Fly	Cherries/Table Grapes	170
Western Cherry Fruit Fly	Cherries	23

REGISTERED ORGANIC FARMING STATISTICS

Growers	29
Acres	1,678
Packers/Shippers	3
Certified Producers Certificates	188

Notes

Notes

