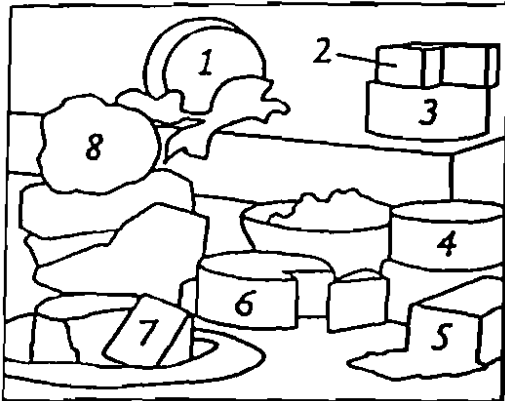


1999
TULARE COUNTY
AGRICULTURAL
CROP & LIVESTOCK
REPORT



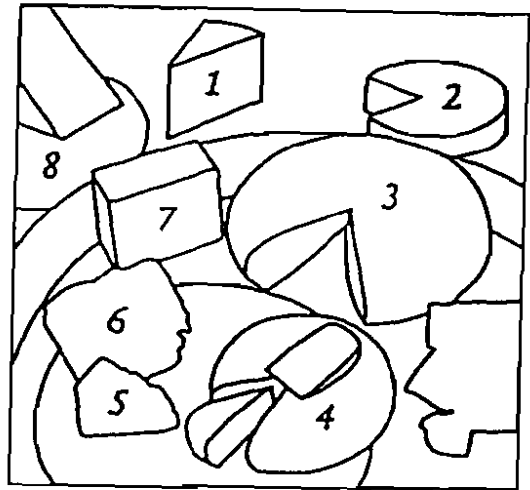
Cheese Identification Maps

Front Cover



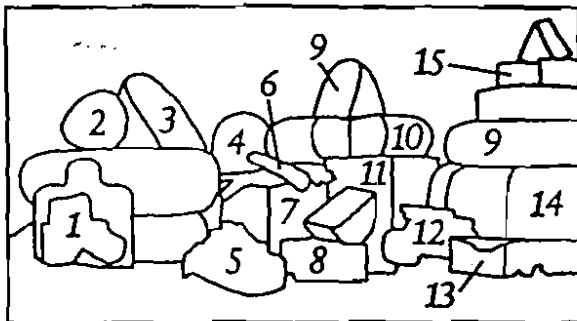
California cheesemakers produce a variety of Hispanic-style cheeses including (1) Panela, (2) Manchego, (3) Menonita, (4) Enchilado, (5) Queso Blanco Fresco, (6) Cotija, (7) Queso Fresco, (8) Oaxaca.

Back Cover



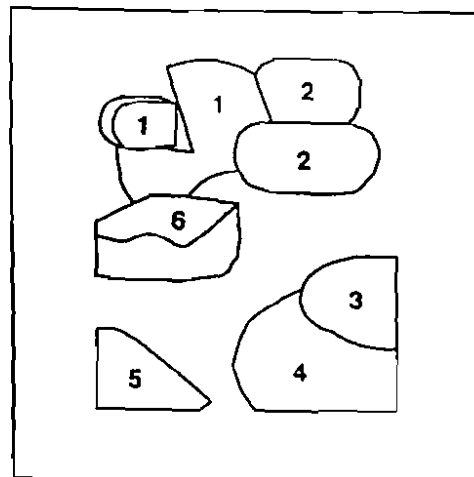
Spiced and flavored cheeses are a specialty of California cheesemakers. Examples include (1) Jalapeno Pepper Cheddar, (2) Herb Brie, (3) Jalapeno Pepper Jack, (4) Pesto Jack, (5) Sun Dried Tomato and Basil Feta, (6) Black Pepper Feta, (7) Pesto Cheddar and (8) Garlic Jack.

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The Real California Cheese family includes more than 130 varieties and styles of cheese. Some popular types of California cheese are (1) Cotija, (2) Mozzarella, (3) Dry Jack, (4) Oaxaca, (5) Queso Fresco, (6) String Cheese, (7) Edam, (8) Marbled Cheddar, (9) Jalapeno Pepper Jack, (10) Monterey Jack, (11) Cheddar, (12) Panela, (13) Teleme, (14) Gouda and (15) Brie.

Inside Front Cover



California's Original Cheeses

Renown for their innovation and willingness to experiment, California cheesemakers create new and flavorful cheeses as well as unique spiced and flavored varieties.

Reflecting the state's emergence as a culinary trendsetter, California has a rich heritage in cheesemaking, the following cheeses are the state's originals:

- (1) Dry Jack, (2) Carmody, (3) Pesto Jack, (4) Rosemary Jack, (5) Mediterranean Jack and (6) Teleme.



Tulare County Agricultural Commissioner/Sealer

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

2000

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

AND

THE HONORABLE BOARD OF SUPERVISORS
COUNTY OF TULARE

Bill Sanders, Chair
Bill Maze Jim Maples
Mel Richmond J. Stephen Worthley

Tom Sherry
Acting County Administrative Officer

It is my pleasure to submit the Annual Tulare County Crop and Livestock Report for 1999. The annual report is produced in accordance with Sections 2272 and 2279 of the California Food and Agricultural Code and summarizes the acreage, production and value of Tulare County's agricultural commodities. The figures represent gross returns to the producer and do not indicate actual net profit.

For the first time in the history of Tulare County, the value of all agricultural commodities exceeded three billion dollars. The 1999 value was \$3,078,186,000 which represents an increase of 5% over 1998.

Again this year, dairies and their associated industries were the basis for improvements in related categories except for manufacturing milk. The increase in the number of dairy cattle was particularly noticeable. Many dairies expanded their herds in late 1998 or early 1999, a time when milk prices were strong. These herd expansions resulted in milk volume increases which offset the decline in the price of market milk (just over \$1.50 per hundredweight), for the 1999 production year. The growing cheese industry, and the proximity to processors in neighboring counties, assures our dairymen of a steady demand for both products and fresh milk.

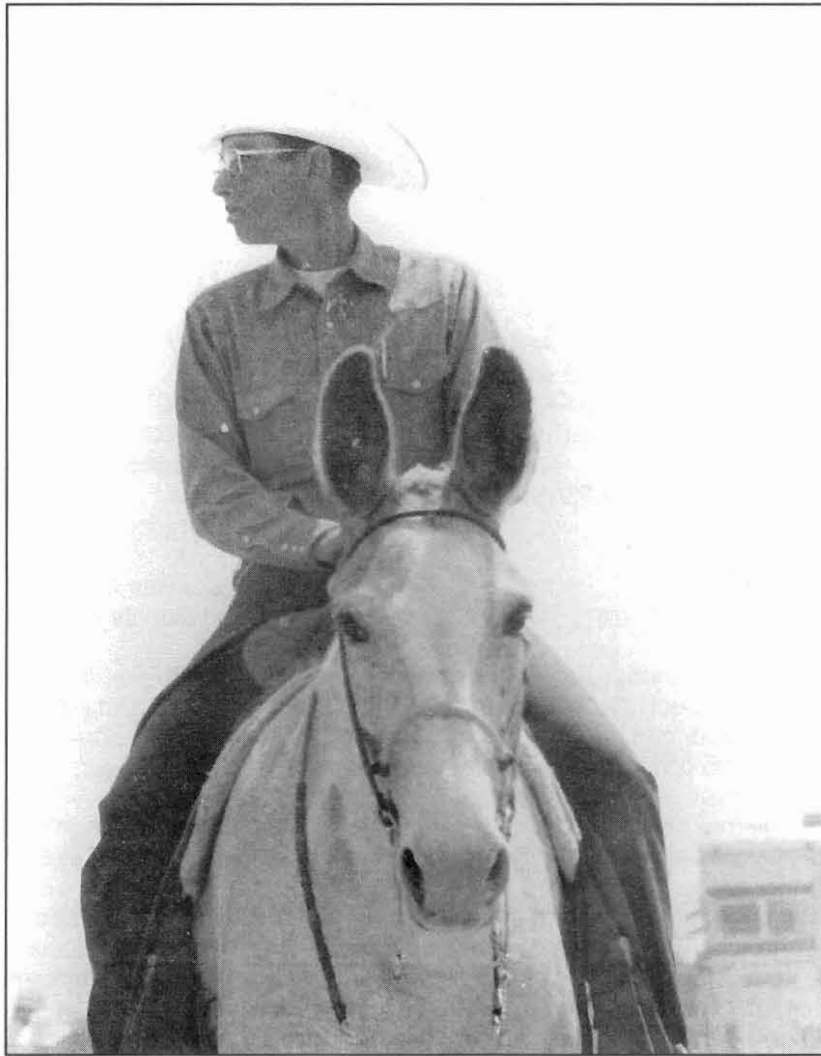
Tulare County agriculture is dynamic and reflects the changing demands and tastes of consumer and export markets. The growing global market is beginning to dictate the types of products grown locally. Farmers, handlers, and ranchers continue to assess and modify the way they do business to improve both the quality and sustainability of farm products.

I wish to express my sincere appreciation to the many producers, processors and agencies, both private and governmental, who supported our efforts in producing this report. I would also like to thank all the members of my staff, particularly Dawn McHugh, Valerie Williams, Bob Chilton, and R. Dennis Haines, whose input and hard work have made the publication of this report possible.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Lenord L. Craft".

Lenord L. Craft
Agricultural Commissioner/Sealer



Thomas K “Tom” LaMunyon

This past year, the Agricultural Commissioner/Sealer's Department lost a cherished member of its family. Tom LaMunyon passed away on June 12, 1999 at the age of 57. He served as an Agricultural Inspector for Tulare County for twenty-two years.

Tom was a native of Exeter, and attended the Exeter Schools. He Graduated from Exeter Union High School in 1960. Tom continued his education at the University of California at Davis where he obtained his degree in Veterinary Science.

Shortly after graduating, Tom served in the United States Army as a Veterinarian. After completing his military service, he returned to the San Joaquin Valley. Because of Tom's love for Tulare County, and the surrounding landscape of the Mineral King area, he established a veterinary practice in Porterville and operated as a cowboy for the Boswells in the Yokohl Valley. On occasion he assisted as a packer operating out of the Mineral King Pack Station. Tom joined the Agricultural Commissioner/Sealer's Department in 1978.

Throughout his adult years, Tom helped the youth of Tulare County with their FFA (Future Farmers of America) and 4H projects, whether it be working with heifers or showing young people all the right moves in the show ring. Being very community oriented, Tom also belonged to several organizations including: The Iditarod Trial Committee, the UC Davis Alumni Association, and The Veterinary Medical Association.

Thomas K La Munyon was a great person and one who possessed the utmost integrity. The people of Tulare County and his friends at the Agricultural Commissioner/Sealer's office are going to miss him deeply.

Cheese - A Budding Industry in Tulare County **by Bill Boersma, owner Bravo Farms**

The last Tulare County Agricultural Crop and Livestock Report which featured a special report on dairies and dairy products was published in 1988. At that time, Tulare County was number two in California in milk production, and California was number two nation-wide.

Tulare County now ranks number one in the state as well as the nation for total milk production. The production of milk in 1999 for Tulare County totaled 6.4 billion pounds, a near 15% increase over 1998 production and 22% of total state production.

Tulare County cheese production has also increased dramatically. In the last twelve years Tulare County has become home to several private cheese production facilities ranging from Kraft Foods and giant dairy cooperatives such as California Dairies and Land O' Lakes to specialty cheese makers and even farm-based specialty cheese producers. All of these factors have helped propel California into the number two cheese-production position nationally.

The future for cheese in Tulare County looks promising. Thirty years ago, 2% of California's milk production was used for cheese. Today 47% of all milk is used to produce cheese. Industry officials in California now expect to become the largest cheese-making state by the year 2005. Even though specialty cheese is a very small segment of total production, it evokes the most emotion among consumers.

Because of the relatively small quantities produced, specialty cheese has its own marketing difficulties. First, there is the perception that foreign imports are better, that exclusive cheeses can only be made outside of California. The consumer finds the specialty cheese case at stores filled with foreign imports, some of which have been mass-produced. One of the best marketing tools to overcome this problem is sampling, allowing people to taste the differences and letting them know that they have a local option. Second, specialty cheese costs more to produce. In this area, the specialty cheese maker need not apologize. Normally this type of cheese production is labor-intensive, and for cheese to ripen to a desired flavor profile takes time. And as we all know, time is expensive. Third, distribution is not easy. The dairy products distributors in this state have geared up for high volume product movement, and quite frankly, small volumes of product throw a wrench into the gears of high-tech warehousing and integrated movement of product to retailers.

Yet, here in Tulare County we have found great local support for our cheese, and we feel people here are becoming interested and excited about the possibility of new specialty cheeses that this county is very capable of producing.

A case in point is the newly developed California Dairy Products Technology Institute (C.D.P.T.I.), a vision of the head of the Agriculture Studies Department of College of the Sequoias, Larry Dutto. Through his leadership, Larry has sparked interest and cooperation between COS, the World Ag Expo, private industry, and labor organizations. The building and equipping of this institute should be completed this year. C.D.P.T.I. will have a unique role in the future of Tulare County dairy industry. Its mission is education and training for those who are studying dairy processing at the college. Many different departments can be involved, with students in the Business and Ag Business Departments studying marketing with a focus on warehousing, distribution, retailing, and international trade, for example. For the dairy industry to survive in California, we must grow our export market. Students interested in tourism and related fields could also be involved in projects of the C.D.P.T.I.

Dairy processing technology is growing rapidly, and C.D.P.T.I. would help the newly hired at local plants understand the flow of milk from the receiving bay through cheese production, packaging, and shipping. The technology of the past could be learned by those who are interested in hands-on production of specialty cheeses, whether they own a cheese plant or a deli, are considering setting up a farmstead cheese operation, or just love cheese.

With the great amount of production capability Tulare County dairies have, they are also taking a pro-active role in the business of the community - from environmental issues, which are under review at this time, to the business environment, which includes many ag commodities as well as related businesses that supply trades and services. The near future could see Tulare County as the place to come for the finest cheese and other dairy products available anywhere. Visitors and tourists will see it as a "must stop" instead of just a place to drive through. The future for agriculture and business in Tulare County will truly benefit from the dairy industry within her borders.

Agricultural Commissioner/Sealer of Weights & Measures

Lenord L. Craft

Assistant Agricultural Commissioner/Sealer

Gary W. Kunkel

Deputy Agricultural Commissioner/Sealer

William R. Appleby John O. Pennington C. Lynn Thomas

Systems and Procedures Analyst

Hector R. Prieto

Supervising Agricultural & Standards Inspectors

Bobby K. Bonds Bob Chilton Brian Cox Thomas Zikratch

Staff Biologist

R. Dennis Haines

District Agricultural & Standards Inspectors

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David Case
Bill Deavours

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Steven Brown
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Robert Ibbs
Don Irvin
John Loyd
Dawn McHugh

Stoney Savage
Paul Sihota
Curt Steggall
Valerie Williams

Extra Help Inspectors and Pest Detection Trappers

Jorge Alamo
Susie Bist
H. Edward Campbell

Esteban de la Cruz
Heather Higgins
Lupe Palacios

Eusebio Perez, Jr.
Gracie Ramirez
John R. Carter

Mano Sagredo
George Simpson

Secretary III

Retta Niday

Office Assistant III

Christine Sabbagh

Jesusita Martinez

Gloria Schoenborn

Tricia Wafford

Photos Provided By:

California Milk Producers Advisory Board, San Francisco, CA
Stan Grosz, Fresno, CA

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VISALIA	2500 Burrel Avenue	733-6391
AG WAREHOUSE	14173 Avenue 256, Visalia	733-6476
PORTERVILLE	25 S. Hockett	782-4787
LINDSAY	240 E. Honolulu	562-6025
DINUBA	289 S. "L" Street	591-5842
DINUBA	289 S. "L" Street	591-5855
EXETER	101 W. Pine Street	592-4075
PIXLEY	188 S. Main Street	757-3853



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TULARE COUNTY ACREAGE-PERMANENT PLANTINGS

ORCHARD CROPS	BEARING ACREAGE	NON-BEARING ACREAGE	TOTAL ACREAGE
CITRUS			
Grapefruit & Pummelos	2,041	329	2,370
Lemons	3,947	17	3,964
Limes	8	0	8
Navels	74,393	3,011	77,404
Valencias	31,856	1,305	33,161
Tangerines	2,600	657	3,257
TOTAL	114,845	5,319	120,164
DECIDUOUS AND GRAPES			
Almonds	16,009	457	16,466
Apples	1,668	24	1,692
Apricots	1,102	58	1,160
Avocados	646	0	646
Cherries	809	697	1,506
Figs	71	0	71
Grapes			
Raisin	33,990	694	34,684
Table	32,352	3,504	35,856
Wine	14,992	1,483	16,475
Kiwifruit	2,081	82	2,163
Nectarines	16,152	1,844	17,996
Olives	18,167	474	18,641
Peaches			
Cling	1,599	50	1,649
Freestone	12,959	1,084	14,043
Pears & Asian Pears	710	0	710
Pecans	934	5	939
Persimmons	821	19	840
Pistachio Nuts	9,674	904	10,578
Plums	19,384	908	20,292
Pomegranates	1,402	0	1,402
Prunes	8,871	0	8,871
Quince	214	20	234
Walnuts	30,086	3,248	33,334
Miscellaneous *	44	21	65
TOTAL			
Total Grapes	81,334	5,681	87,015
Total Orchard Crops	258,248	15,214	273,462
GRAND TOTAL	339,582	20,895	360,477

* Includes: Chestnuts, Dates, Guava/Feijoa, Plumcot and Pluot.

Field Crops

Depressed alfalfa prices for mid to late season cuttings resulted in lower values from what initially was anticipated to be a near record year. Despite increases in dairy herd numbers other forage crop values, except small grain silage, declined. A long mild growing season coupled with a nearly ideal harvest period helped cotton to rebound significantly from the depressed yields of 1998.

	Year	Harvested Acreage	Per Acre	Production		Value	
				Total	Unit	Per Unit	Total
Alfalfa - Hay	1999	103,000	8.67	893,000	Ton	88.00	78,584,000
	1998	104,000	7.50	780,000	Ton	101.00	78,780,000
Silage ^a	1999	X	3.25	137,000	Ton	20.00	2,740,000
	1998	X	4.00	139,000	Ton	24.30	3,378,000
Barley	1999	5,140	2.00	10,300	Ton	100.00	1,030,000
	1998	7,000	1.80	12,600	Ton	99.00	1,247,000
Beans - Dry	1999	12,400	1.19	14,800	Ton	400.00	5,920,000
	1998	7,600	1.22	9,270	Ton	582.00	5,395,000
Corn - Grain	1999	17,000	6.00	102,000	Ton	92.00	9,384,000
	1998	35,000	5.00	175,000	Ton	85.00	14,875,000
Silage	1999	103,000	25.00	2,575,000	Ton	18.00	46,350,000
	1998	104,000	24.30	2,527,000	Ton	19.50	49,276,000
Cotton - Lint ^b	1999	67,200	1,370.00	186,000	Bale	81.40	74,940,000
	1998	62,100	844.00	106,000	Bale	72.90	38,595,000
Seed	1999	X	X	65,100	Ton	140.00	9,114,000
	1998	X	X	38,000	Ton	179.00	6,802,000
Pasture & Range-Irrigated	1999	92,100	X	X	Acre	112.00	10,315,000
	1998	86,200	X	X	Acre	110.00	9,482,000
Native	1999	615,000	X	X	Acre	12.00	7,380,000
	1998	615,000	X	X	Acre	12.00	7,380,000
Other	1999	62,000	X	X	Acre	12.00	744,000
	1998	73,800	X	X	Acre	15.00	1,107,000
Silage - Small Grain ^c	1999	75,200	17.00	1,278,000	Ton	18.00	23,004,000
	1998	71,500	14.80	1,058,000	Ton	16.70	17,669,000
Sorghum Grain	1999	839	2.00	1,680	Ton	85.00	143,000
	1998	504	2.00	1,010	Ton	80.00	80,800
Sudan Grass ^e	1999	6,600	3.30	21,800	Ton	94.30	2,056,000
	1998	X	X	X	X	X	X
Sugar Beets	1999	4,500	28.50	128,000	Ton	34.00	4,352,000
	1998	3,760	28.90	109,000	Ton	32.50	3,542,000

Field Crops continued

	Year	Harvested Acreage	Per Acre	Production		Per Unit	Value
				Total	Unit		Total
Wheat	1999	56,800	2.35	133,000	Ton	97.00	12,901,000
	1998	59,100	1.85	109,000	Ton	95.00	10,355,000
Miscellaneous ^d	1999	34,635	X	X	X	X	2,731,000
	1998	12,795	X	X	X	X	9,208,000
TOTAL	1999	1,255,414					291,688,000
	1998	1,242,359					257,171,800

a Green weight basis.

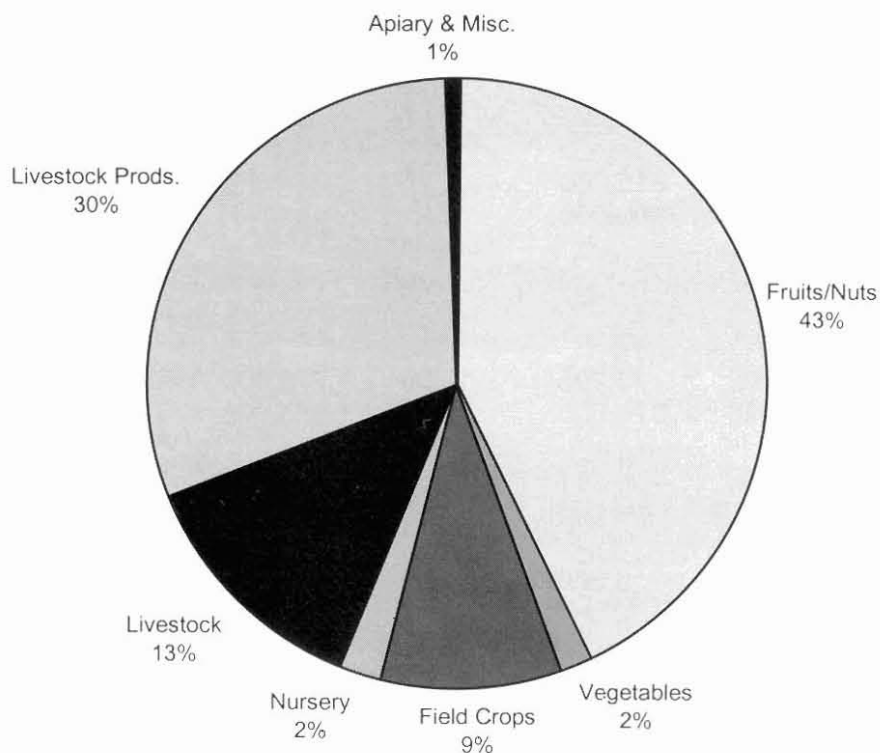
b Yield per acre in pounds lint, production total in 495 lbs. net weight bales, unit value in dollars per lint hundredweight.

c Includes: Barley, Oats, and Winter Forage.

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

e Not reported in 1998.

Tulare County - 1999
Total Value \$3,078,186,000



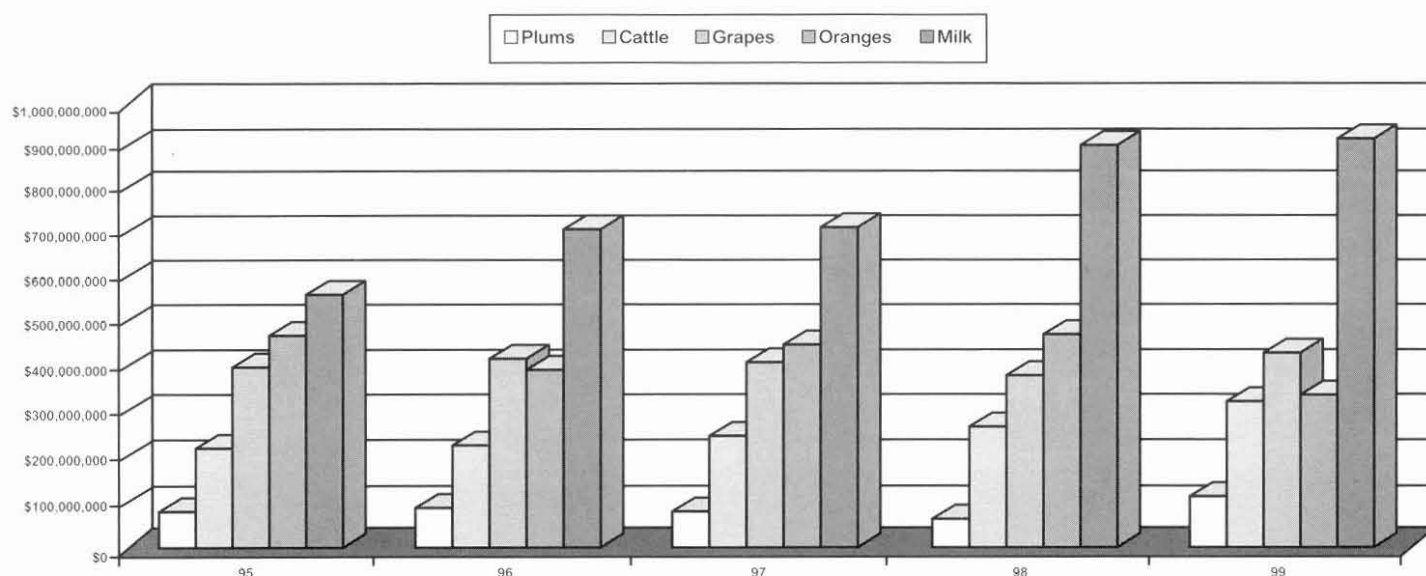
Vegetable Crops

Improved prices for most commodities helped to push this section to a slight improvement over 1998, but still well below the record year of 1994. A doubling of cauliflower acreage and a substantial increase in price led to a whopping 224% increase.

	Year	Harvested Acreage	Production		Per Unit	Value	
			Per Acre	Total		Total	
Broccoli	1999	1,694	7.06	12,000	Ton	608.00	7,296,000
	1998	1,653	5.30	8,760	Ton	432.00	3,784,000
Cauliflower	1999	1,496	4.65	6,960	Ton	875.00	6,090,000
	1998	748	5.45	4,080	Ton	461.00	1,881,000
Cucumbers	1999	133	13.10	1,740	Ton	680.00	1,183,000
	1998	125	10.60	1,320	Ton	760.00	1,003,000
Snap Beans - Fresh	1999	2,281	3.94	8,990	Ton	1,600.00	14,384,000
	1998	2,749	3.07	8,440	Ton	1,290.00	10,888,000
Sweet Corn	1999	386	7.50	2,900	Ton	220.00	638,000
	1998	635	11.60	7,370	Ton	245.00	1,806,000
Tomatoes - Fresh	1999	486	17.00	8,260	Ton	552.00	4,560,000
	1998	1,369	12.70	17,400	Ton	531.00	9,239,000
Miscellaneous *	1999	5,157	X	X	X	X	14,732,000
	1998	5,522	X	X	X	X	17,164,000
TOTAL	1999	11,633					48,883,000
	1998	12,801					45,765,000

* Includes: Artichokes, Assorted Peppers, Aztec Sweet Herb, Bamboo, Barrello, Basil, Beans-Dry, Beets, Bittermelon, Bokchoy, Brussels Sprouts, Cabbage, Cactus, Camote, Canary Melons, Cantaloupe, Cardis, Carrots, Celandine, Celery, Chameleon, Chayote, Chives, Chong Sun, Cilantro, Dill, Daikon, Eggplant, Garlic, Ginger, Gourds, Horse Radish, Lemon Grass, Lettuce, Nutako, Okra, Onions, Oregano, Pallang, Parsley, Peas(English & Sugar), Pechoy, Potatoes, Processed Tomatoes, Pumpkins, Radicchio, Radishes, Rosemary, Siqua, Spinach, Sprouts, Squash, Swiss Chard, Taro, Tomatillos, Turnips, Watermelons, Yachoy, Yams, and Zucchini.

History of Key Commodities



Fruit and Nut Crops

Almost ideal pollination weather prevailed throughout the bloom period. As a result, yields for many varieties improved (many significantly) over the rain shortened season of 1998. Freezing temperatures of December 1998 lowered the values of oranges and lemons by as much as 32% when compared to the previous year. Acreage and yield increases helped improve grape values by 14%.

	Year	Harvested Acreage	Per Acre	Production		Value	
				Total	Unit	Per Unit	Total
Almonds - Meats	1999	16,009	0.97	15,500	Ton	1,590.00	24,645,000
	1998	13,395	0.82	11,000	Ton	3,400.00	37,400,000
Hulls	1999	X	X	39,400	Ton	60.00	2,364,000
	1998	X	X	27,900	Ton	80.00	2,232,000
Apples	1999	1,668	10.90	18,200	Ton	685.00	12,467,000
	1998	1,374	7.82	10,700	Ton	852.00	9,116,000
Apricots	1999	1,102	5.31	5,850	Ton	1,390.00	8,132,000
	1998	1,010	5.31	5,360	Ton	1,060.00	5,682,000
Avocados	1999	646	1.75	1,130	Ton	1,380.00	1,559,000
	1998	647	6.06	3,920	Ton	760.00	2,979,000
Cherries	1999	809	2.28	1,840	Ton	4,210.00	7,746,000
	1998	476	1.61	766	Ton	6,880.00	5,270,000
Grapes - Total	1999	81,334	X	X	X	X	442,652,000
	1998	76,225	X	X	X	X	387,027,000
Raisin Varieties	1999	33,990	8.23	X	X	X	X
	1998	33,869	8.12	X	X	X	X
Canned	1999	X	X	20,900	Ton	201.00	4,201,000
	1998	X	X	18,200	Ton	229.00	4,168,000
Crushed ^a	1999	X	X	52,100	Ton	195.00	10,160,000
	1998	X	X	63,300	Ton	193.00	12,217,000
Dried ^b	1999	X	X	32,400	Ton	1,230.00	39,852,000
	1998	X	X	24,600	Ton	1,260.00	30,996,000
Fresh	1999	X	X	71,640	Ton	1,160.00	83,102,000
	1998	X	X	70,800	Ton	1,050.00	74,340,000
Table Varieties	1999	32,352	9.51	X	X	X	X
	1998	29,696	8.50	X	X	X	X
Crushed	1999	X	X	68,900	Ton	176.00	12,126,000
	1998	X	X	57,800	Ton	142.00	8,203,000
Fresh	1999	X	X	239,000	Ton	1,050.00	250,950,000
	1998	X	X	195,000	Ton	1,120.00	218,400,000
Wine Varieties	1999	14,992	10.40	X	X	X	X
	1998	12,660	10.30	X	X	X	X
Crushed	1999	X	X	152,000	Ton	262.00	39,824,000
	1998	X	X	129,000	Ton	292.00	37,668,000
Juice	1999	X	X	4,480	Ton	544.00	2,437,000
	1998	X	X	1,630	Ton	632.00	1,030,000
Grapefruit - Fresh ^c	1999	2,041	12.50	25,500	Ton	661.00	16,856,000
	1998	1,539	8.51	13,100	Ton	489.00	6,406,000

Fruit and Nut Crops continued

	Year	Harvested Acreage	Production		Unit	Value	
			Per Acre	Total		Per Unit	Total
Kiwifruit	1999	2,081	4.46	9,280	Ton	1,090.00	10,115,000
	1998	2,043	6.86	14,000	Ton	1,820.00	25,480,000
Lemons - Fresh	1999	3,947	9.45	22,000	Ton	822.00	18,084,000
	1998	3,743	14.00	36,200	Ton	621.00	22,480,000
Processed	1999	X	X	15,300	Ton	41.00	627,000
	1998	X	X	16,200	Ton	84.00	1,361,000
Nectarines - Fresh	1999	16,152	7.29	118,000	Ton	597.00	70,446,000
	1998	14,282	5.16	73,700	Ton	766.00	56,454,000
Olives	1999	18,167	5.45	99,000	Ton	475.00	47,025,000
	1998	16,621	3.07	51,100	Ton	520.00	26,572,000
Oranges - Navel	1999	74,393	8.49	341,000	Ton	698.00	238,018,000
	1998	72,048	11.40	674,000	Ton	479.00	322,846,000
Processed	1999	X	X	291,000	Ton	28.00	8,148,000
	1998	X	X	148,000	Ton	27.00	3,996,000
Valencia	1999	31,856	5.34	116,000	Ton	841.00	97,556,000
	1998	29,738	12.80	305,000	Ton	472.00	143,960,000
Processed	1999	X	X	54,400	Ton	99.00	5,386,000
	1998	X	X	76,200	Ton	101.00	7,696,000
Peaches - Cling	1999	1,599	17.00	27,200	Ton	233.00	6,338,000
	1998	1,490	19.00	28,300	Ton	225.00	6,368,000
Freestone - Fresh	1999	12,959	11.70	103,000	Ton	507.00	52,221,000
	1998	11,679	7.46	58,600	Ton	758.00	44,419,000
Processed	1999	X	X	48,300	Ton	210.00	10,143,000
	1998	X	X	28,600	Ton	188.00	5,377,000
Pears & Asian Pears	1999	710	3.87	2,750	Ton	1,510.00	4,152,000
	1998	531	3.42	1,820	Ton	2,350.00	4,277,000
Pecans	1999	934	0.75	700	Ton	2,200.00	1,540,000
	1998	889	0.75	667	Ton	3,510.00	2,341,000
Persimmons	1999	821	6.94	5,700	Ton	1,200.00	6,840,000
	1998	715	6.75	4,830	Ton	1,150.00	5,555,000
Pistachio Nuts	1999	9,674	0.87	8,420	Ton	2,980.00	25,092,000
	1998	7,266	1.07	7,770	Ton	2,220.00	17,249,000
Plums - Fresh	1999	19,384	6.88	133,000	Ton	887.00	117,971,000
	1998	16,918	5.03	85,100	Ton	784.00	66,718,000
Pomegranates	1999	1,402	2.33	3,270	Ton	1,310.00	4,284,000
	1998	1,256	2.01	2,520	Ton	1,350.00	3,402,000

Fruit and Nut Crops continued

	Year	Harvested Acreage	Per Acre	Production		Value	
				Total	Unit	Per Unit	Total
Prunes - Processed	1999	8,871	2.04	17,500	Ton	825.00	14,438,000
	1998	6,093	1.53*	9,060	Ton	846.00	7,665,000
Fresh ^e	1999	X	X	1,830	Ton	1,440.00	2,635,000
	1998	X	X	840	Ton	1,750.00	1,470,000
Quince	1999	214	4.90	1,050	Ton	1,420.00	1,491,000
	1998	176	8.16	1,440	Ton	996.00	1,434,000
Tangerines ^f	1999	2,600	5.02	13,100	Ton	990.00	12,969,000
	1998	2,178	6.26	13,600	Ton	835.00	11,356,000
Walnuts	1999	30,086	1.51	45,400	Ton	900.00	40,860,000
	1998	27,346	1.44	39,400	Ton	990.00	39,006,000
Miscellaneous ^g	1999	206	X	X	X	X	2,138,000
	1998	216	X	X	X	X	2,232,000
TOTAL	1999	339,665					1,314,938,000
	1998	309,894					1,285,826,000

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, Limes, Plumcots, Pluots, Processed Plums, Strawberries, Kumquat, Loquat, and Peanuts.

* Typographical error in 1998 report.



Nursery Products

The continued growth of ornamental trees and shrubs helped push this category to another new record.

	Year	Quantity Sold	Unit	Per Unit	Value Total
Citrus and Subtropical Trees	1999	621,000	Each	8.67	5,384,000
	1998	750,000	Each	7.98	5,985,000
Deciduous Fruit and Nut Trees	1999	696,000	Each	6.66	4,635,000
	1998	683,000	Each	6.58	4,494,000
Grape & Berry Vines	1999	5,544,000	Each	1.82	10,090,000
	1998	7,031,000	Each	1.51	10,617,000
Foliage Plants & Cut Flowers	1999	X	X	X	1,838,000
	1998	X	X	X	1,949,000
Ornamental Trees & Shrubs	1999	4,725,000	Each	9.53	45,029,000
	1998	4,055,000	Each	9.77	39,617,000
Miscellaneous *	1999	X	X	X	2,706,000
	1998	X	X	X	2,644,000
TOTAL	1999				69,682,000
	1998				65,306,000

* 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 availability of cheaply priced imported honey has diminished domestic honey sales. A large amount of the 1999 crop has yet to be sold. Pollination prices will increase due to higher colony cultural costs and limited availability of California bees for pollination.

	Year	Total	Unit	Per Unit	Value Total
Honey - Orange ^a	1999	15,725,000	Lb	0.58	9,120,000
	1998	13,728,000	Lb.	0.66	9,060,000
Other	1999	1,925,000	Lb	0.47	905,000
	1998	2,450,000	Lb.	0.59	1,446,000
Beeswax	1999	105,000	Lb.	1.55	163,000
	1998	142,000	Lb.	1.47	209,000
Pollination ^b	1999	60,300	Colony	33.60	2,026,000
	1998	47,000	Colony	32.20	1,513,000
TOTAL	1999				12,214,000
	1998				12,228,000

^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

Continued growth of the dairy industry especially in 1999, fueled a \$61 million increase in the cattle and calves category alone. Again this year other categories remained relatively unchanged.

	Year	No. of Head	Total Liveweight	Unit	Value Per Unit	Total
Cattle & Calves	1999	484,000	X	Head	686.00	332,024,000
	1998	412,000	X	Head	658.00	271,096,000
Lambs	1999	12,800	1,215,000	Lb	.748	909,000
	1998	12,800	1,215,000	Lb.	.748	909,000
Hogs & Pigs	1999	283,000	X	Head	79.60	22,527,000
	1998	283,000	X	Head	77.70	21,989,000
Turkeys	1999	818,000	19,969,000	Lb	1.30	25,960,000
	1998	799,000	19,107,000	Lb.	1.20	22,928,000
Miscellaneous *	1999	X	X	X	X	16,204,000
	1998	X	X	X	X	17,197,000
TOTAL	1999					397,624,000
	1998					334,119,000

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

Livestock and Poultry Products

Although the market milk price dropped by more than \$1.50 per hundred weight, volume increases helped push this item to another new record.

	Year	Production	Unit	Value Per Unit	Total
Manure ^a	1999	1,938,000	Ton	5.56	10,775,000
	1998	1,855,000	Ton	5.56	10,314,000
Milk - Market	1999	69,249,000	Cwt	13.26	918,242,000
	1998	60,421,000	Cwt.	14.82	895,439,000
Manufacturing	1999	162,000	Cwt	11.92	1,931,000
	1998	257,000	Cwt.	13.15	3,380,000
Miscellaneous ^b	1999	X	X	X	7,136,000
	1998	X	X	X	5,418,000
TOTAL	1999				938,084,000
	1998				914,551,000

^a Includes: Dairy and Poultry Manure.

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

Seed Crops

A return to more normal yields for cotton helped this category. Acreage drops in the miscellaneous section resulted in an overall decrease of only \$354 thousand dollars.

	Year	Harvested Acreage	Per Acre	Production		Value	
				Total	Unit	Per Unit	Total
Cotton - Registered or Certified ^a	1999	2,313	X	2,080	Ton	365.00	759,000
	1998	2,780	X	1,390	Ton	348.00	484,000
Miscellaneous ^c	1999	640	X	X	X	X	322,000
	1998	1,402	X	X	X	X	951,000
TOTAL	1999	640					1,081,000
	1998	1,402					1,435,000

^a Not included in total acreage for "Seed Crops".

^b Includes \$40 per acre approval.

^c Includes: Alfalfa, Blackeye Cow Peas, Triticale, and Sunflowers.

Industrial Crops

A marginal rise in the price per foot and an improvement in the value of miscellaneous commodities combined for an increase of \$865 thousand over 1998.

	Reporting Year	Production		Value	
		Total	Unit	Per Unit	Total
Timber Harvested ^a	1999	8,362,000	Board Ft.	0.264	2,208,000
	1998	9,272,000	Board Ft.	0.235	2,179,000
Miscellaneous ^b	1999	X	X	X	1,784,000
	1998	X	X	X	948,000
TOTAL	1999				3,992,000
	1998				3,127,000

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

^b Includes: Biomass, Fire Wood, and Walnut Stumps.

SUMMARY

COMMODITY	YEAR	HARVESTED ACREAGE	VALUE
FIELD CROPS	1999	1,255,414	291,688,000
	1998	1,242,359	257,171,800
VEGETABLE CROPS	1999	11,633	48,883,000
	1998	12,801	45,765,000
FRUIT AND NUT CROPS	1999	339,665	1,314,938,000
	1998	309,894	1,285,826,000
NURSERY PRODUCTS	1999	X	69,682,000
	1998	X	65,306,000
APIARY PRODUCTS	1999	X	12,214,000
	1998	X	12,228,000
LIVESTOCK AND POULTRY	1999	X	397,624,000
	1998	X	334,119,000
LIVESTOCK AND POULTRY PRODUCTS	1999	X	938,084,000
	1998	X	914,551,000
SEED CROPS	1999	640	1,081,000
	1998	1,402	1,435,000
INDUSTRIAL CROPS	1999	X	3,992,000
	1998	X	3,127,000
GRAND TOTAL	1999	1,607,352	3,078,186,000
	1998	1,566,456	2,919,528,800

MILLION DOLLAR PRODUCTS

1999 Ranking

1998 Ranking

1.	Milk	920,173,000	1
2.	Grapes	442,652,000	3
3.	Oranges - Navel & Valencia	349,108,000	2
4.	Cattle & Calves	332,024,000	4
5.	Plums	117,971,000	6
6.	Cotton - Lint & Seed	84,813,000	10
7.	Alfalfa - Hay & Silage	81,324,000	5
8.	Nectarines	70,446,000	8
9.	Peaches - Cling & Freestone	68,702,000	9
10.	Corn - Grain & Silage	55,734,000	7
11.	Olives	47,025,000	14
12.	Nursery - Ornamental Trees & Shrubs	45,029,000	12
13.	Walnuts	40,860,000	13
14.	Almonds	27,009,000	11
15.	Turkeys	25,960,000	17
16.	Pistachio Nuts	25,092,000	21
17.	Silage - Small Grain	23,004,000	20
18.	Hogs & Pigs	22,527,000	18
19.	Lemons	18,711,000	16
20.	Pasture & Range	18,439,000	19
21.	Prunes	17,073,000	29
22.	Grapefruit	16,856,000	31
23.	Snap Beans - Fresh	14,384,000	23
24.	Tangerines	12,969,000	22
25.	Wheat	12,901,000	26
26.	Apples	12,467,000	30
27.	Manure	10,775,000	27
28.	Kiwifruit	10,115,000	15
29.	Nursery - Grape & Berry Vines	10,090,000	24
30.	Honey	10,025,000	25
31.	Apricots	8,132,000	33
32.	Cherries	7,746,000	36
33.	Broccoli	7,296,000	39
34.	Persimmons	6,840,000	34
35.	Cauliflower	6,090,000	46
36.	Beans - Dry	5,920,000	35
37.	Nursery - Citrus & Subtropical Trees	5,384,000	32
38.	Nursery - Deciduous Fruit & Nut Trees	4,635,000	37
39.	Tomatoes	4,560,000	28
40.	Sugar Beets	4,352,000	40
41.	Pomegranates	4,284,000	41
42.	Pears & Asian Pears	4,152,000	38
43.	Timber Harvested	2,208,000	44
44.	Sudan Grass	2,056,000	**
45.	Pollination	2,026,000	47
46.	Nursery - Foliage Plants & Cut Flowers	1,838,000	45
47.	Avocados	1,559,000	42
48.	Pecans	1,540,000	43
49.	Quince	1,491,000	48
50.	Cucumbers	1,183,000	50
51.	Barley	1,030,000	49

** Not reported in 1998

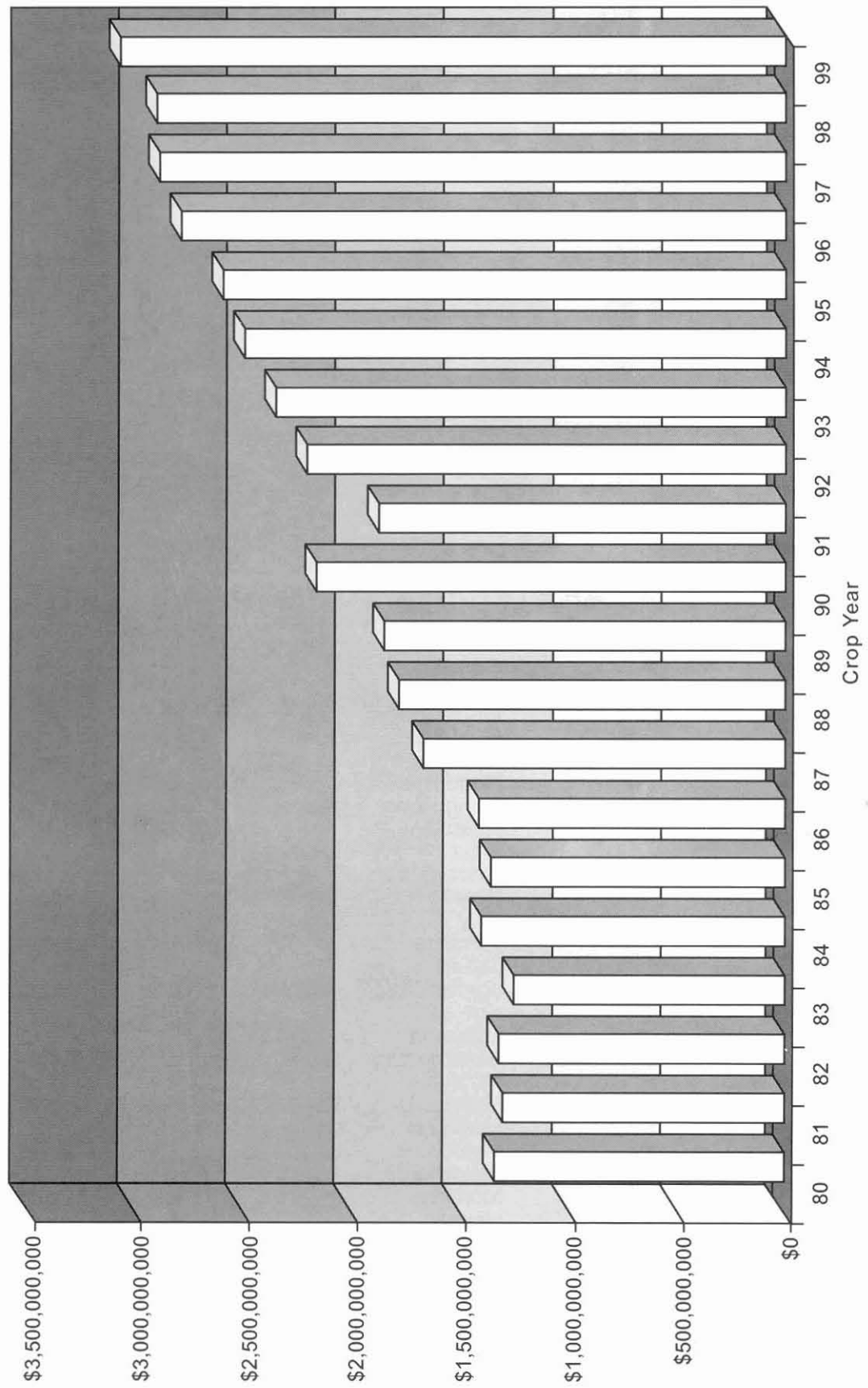
**TWENTY YEAR COMPARISON OF AGRICULTURE
INCOME IN TULARE COUNTY
1980-1999**

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	2,900,892,000
1988	1,791,151,200	1998	2,919,528,800
1989	1,853,101,600	1999	3,078,186,000

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

Almonds	50	Oranges	37½
Apples	40	Pistachio (roasted, salted) . .	25
Apricots	24	Peaches-Freestone	25
Avocados	25	Asian Pears/Pears	11
Broccoli	23	Persimmons	11
Cauliflower	25	Plums	28
Figs	8	Pomegranates	28
Cherries	18	Prunes-Fresh	28
Grapes - Juice	36	Quince	22
Grapes-Table	21	Snap Beans	30
Grapefruit	36	Squash	25
Honeydew Melons	30	Sweet Corn	50
Kiwifruit	7½	Tangerines	25
Lemons	40	Tomatoes	25
Nectarines	25		

Tulare County 20 years of agricultural income



**1999 PRODUCE EXPORTS
TOP TEN COUNTRIES**

COUNTRY	# CONTAINERS CERTIFIED	PHYTOSANITARY CERT. ISSUED
1. Taiwan	3,351,286	2,667
2. Mexico	2,842,033	1,699
3. Japan	1,129,077	1,211
4. Philippines	991,540	650
5. Republic of Korea	669,987	554
6. British Columbia	592,028	1,556
7. Venezuela	367,303	306
8. El Salvador	294,341	297
9. Guatemala	273,900	318
10. Hong Kong	270,322	185
TOTAL	10,781,817	9,443

**COUNTRIES RECEIVING
TULARE COUNTY COMMODITIES IN 1999**

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

Tulare County Sustainable Agricultural Reporting

County Biological Control

Pest	Agent/Mechanism	Program Scope
Aphids <i>Aphis</i> spp.	Asian Ladybird Beetle <i>Harmonia axyridis</i>	3 sites
Ash Whitefly <i>Siphoninus phillyreae</i>	Parasitic Wasp <i>Encarsia inaron</i>	Upon demand
	Ladybird Beetle <i>Cleitostethus arcuatus</i>	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>Pseudoaphycus malinus</i> <i>Allotrropa burrelli</i>	2 sites
Cottony-Cushion Scale <i>Icerya purchasi</i>	Parasitic Fly <i>Cryptochetum iceryae</i>	Upon demand
	Vedalia Beetle <i>Rodolia cardinalis</i>	Upon demand
Cotton/Melon Aphid <i>Aphis gossypii</i>	Parasitic Wasp <i>Aphelinus gossypii</i>	1 site
Italian Thistle <i>Carduus pycnocephalus</i>	Seedhead Weevil <i>Rhinocylus conicus</i>	1 site
Milk Thistle <i>Silybum marianum</i>	Seedhead 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</i> spp.	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>	3 sites
	Flower Weevil <i>Larinus curtus</i>	2 sites
	Hairy Weevil * <i>Eustenopus villosus</i>	64 sites
	Peacock Fly <i>Chaetorellia succinea</i>	3 sites

* Also provided insect agents to other out-of-county agencies.

County Pest Detection**Target Pest****Number of Traps****Host Crops**

European Corn Borer
 European Pine Shoot Moth
 Gypsy Moth
 Japanese Beetle
 Khapra Beetle
 Mediterranean Fruit Fly
 Melon Fruit Fly
 Mexican/Caribbean Fruit Flies
 Olive Fruit Fly/Glassy-winged
 Sharpshooter
 Oriental Fruit Fly

10
 10
 146
 84
 54
 529
 91
 154

 1776
 89

Corn/Sorghum
 Pines
 Shade Trees
 Turf/Flowers
 Stored Food Products
 Fruit Trees
 Vegetables
 Fruit Trees

 Olive Trees
 Fruit Trees

**County Pest Abatement
Pest****Host Crops****Program Scope**

Citricola Scale
Coccus pseudomagnoliarum
 Cottony Cushion Scale
Icerya purchasi

Citrus

1

Citrus Tristeza Virus

Citrus

1

Codling Moth
Cydia pomonella

Walnuts and Asian Pears

2

Fiddleneck
Amsinckia spp.

Pasture

1

Milk Thistle
Silybum marianum

Pistachios

1

Mistletoe
Phoradendron flavescens

Walnuts

1

Navel Orangeworm
Amyelois transitella

Walnuts

1

**County Pest Eradication
Pest****Agent/Mechanism****Program Scope**

Alligatorweed
Alternanthera philoxeroides

Mechanical/Chemical Control

160 plants

Camelthorn
Alhagi pseudoalhagi

Mechanical/Chemical Control

2 sites

Hydrilla
Hydrilla verticillata

Chemical Control

1 site

Pink Bollworm
Pectinophora gossypiella

Mechanical/Host Free Period

67,200 acres

Scotch Thistle
Onopordum acanthium

Mechanical/Chemical Control

General distribution

**Registered Organic
Farming Statistics**

Grower
 Acres
 Packers/Shippers
 Certified Producers Certificates

29
 1,678
 3
 188

County Pest Exclusion Pest Rejections

Setting

Program Scope

B - Rated Scales <i>Lepidosaphes beckii</i> <i>Lepidosaphes gloverii</i> <i>Parlatoria pergande</i>	Wholesale	1 rejection/ destroyed
Burrowing Nematode <i>Radopholus similis</i>	Wholesale	2 rejections/ destroyed
C - Rated Scales <i>Chrysomphalus aoudum</i> <i>Aonidiella citrina</i> <i>Fuchadaspis zamiae</i>	Wholesale	2 rejections/ destroyed
Citrus Canker <i>Xanthomonas campestris citri</i>	Wholesale	1 rejection/ destroyed
Citrus Leafminer <i>Phyllocnistis citrella</i>	Wholesale	1 rejection/ destroyed
Decay	Incoming Shipment	5 rejections/ destroyed
Frogbit/Salvinia	Retail/Wholesale	3 rejections/ destroyed
General Pests	Wholesale	23 rejections/ destroyed
Golden Nematode <i>Globodera rostochiensis</i>	Incoming Shipment	1 rejection/ destroyed
Gypsy Moth <i>Lymantria dispar</i>	Incoming Shipment	1 rejection/ destroyed
Japanese Beetle <i>Popilla japonica</i>	Wholesale	2 rejections/ destroyed
Markings	Incoming Shipments	106 rejections/ destroyed or released
Mexican Fruit Fly <i>Anastrepha ludens</i>	Wholesale	2 rejections/ destroyed
Ozonium Root Rot <i>Phymatotrichum omnivorum</i>	Retail/Wholesale	3 rejections/ destroyed
Q - Rated Leafhopper	Wholesale	3 rejections/ destroyed
Q - Rated Thrips <i>Scirtothrips</i> sp.	Wholesale	3 rejections/ destroyed
Red Imported Fire Ant <i>Solenopsis invicta</i>	Wholesale	1 rejection/ destroyed

Phytosanitary Trapping

Host Crops

Number of Traps

Apple Maggot	Apples	129
Mediterranean Fruit Fly	Cherries	10
Mediterranean Fruit Fly	Citrus	440
Mediterranean Fruit Fly	Table Grapes	160
Western Cherry Fruit Fly	Cherries	23

A SPECIAL THANK YOU

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