

# Sutter County Crop Report



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OFFICE OF THE  
**AGRICULTURAL COMMISSIONER  
SEALER OF WEIGHTS & MEASURES**

MARK P. QUISENBERRY  
Agricultural Commissioner  
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Rick Landon  
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June 1999

To: William J. Lyons, Jr., Secretary  
California Department of Food  
and Agriculture

and

The Honorable Board of Supervisors,  
County of Sutter:

Dennis Nelson, Chairman, District 2

Casey Kroon, District 1

Larry Munger, District 3

Joan Bechtel, District 4

Dick Akin, District 5

In accordance with Section 2272 and 2279 of the California Food and Agricultural Code, I am pleased to submit the 1998 Agricultural Crop Report. Sutter County's gross agricultural production value totaled \$268,323,100, with Rice, Peaches, Tomatoes, Walnuts, and Prunes continuing as the leading agricultural commodities.

Overall, Sutter County production values were down 3 percent in comparison to 1997, which also was a year of depressed returns due to the Meridian flood and market supply and demand. The 1998 mixed weather conditions brought upon by El Niño and La Niña reduced yields and affected quality, in some cases rather significantly. Early Spring rains severely affected prunes and walnuts, and delayed or prevented the planting of other crops. Early Fall rains also affected rice, beans and melons. As previously noted, during the El Niño phenomenon losses to Sutter County growers exceeded \$16 Million, while lower export demand caused by the Asian economic crisis depressed returns for many growers and processors.

Despite the ill-treatment growers received from Mother Nature, the agricultural industry continues to provide a vital financial return to the local economy. Banking, labor, marketing, transportation, and other services directly or in-directly tied to agriculture benefit significantly, making the 1998 economic value worth more than \$939 Million.

I would like to express my sincere appreciation to staff members Mike Furuta and Laura Poma, and to the many individuals involved in the agricultural industry that assisted in the compilation of this report.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Mark P. Quisenberry", is written over a horizontal line.

Mark P. Quisenberry  
Agricultural Commissioner

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**FRUIT AND NUT CROPS  
ACREAGE, PRODUCTION AND VALUE**

CROPS	YEAR	PRODUCTION			UNIT	VALUE	
		HARVESTED ACRES	PER ACRE	TOTAL		PER UNIT	TOTAL
Almonds, Meats	1998	4,026	0.68	2,738	Tons	\$ 3,017.84	\$ 8,262,800
	1997	3,450	0.71	2,450	Tons	2,983.53	7,309,600
Almonds, Hulls	1998			685	Tons	70.00	48,000
	1997			612	Tons	70.00	42,800
Apples	1998	826	9.46	7,814	Tons	197.59	1,544,000
	1997	709	15.67	11,110	Tons	326.27	3,624,900
Cherries	1998	NO PRODUCTION					
	1997	34	1.06	36	Tons	1,603.86	57,700
Kiwifruit	1998	220	3.40	748	Tons	680.51	509,000
	1997	299	1.16	347	Tons	648.10	224,900
Peaches, Cling	1998	9,501	16.12	153,156	Tons	223.76	34,270,200
	1997	8,154	15.27	124,512	Tons	224.07	27,899,400
Peaches, Freestone	1998	121	4.80	581	Tons	625.00	363,100
	1997	68	6.13	417	Tons	179.06	74,700
Pears	1998	432	12.02	5,193	Tons	214.68	1,114,800
	1997	462	16.35	7,554	Tons	252.87	1,910,200
Persimmons	1998	126	2.17	273	Tons	454.20	124,000
	1997	134	2.38	319	Tons	501.90	160,100
Prunes, Dried	1998	20,599	1.11	22,865	Tons	742.26	16,971,800
	1997	19,053	1.88	35,820	Tons	785.45	28,134,800
Walnuts, English	1998	14,783	1.21	17,887	Tons	1,115.02	19,944,400
	1997	14,787	1.53	22,624	Tons	1,320.03	29,864,400
Walnuts, Black	1998	71	0.25	18	Tons	111.11	2,000
	1997	71	0.80	57	Tons	111.11	6,300
Miscellaneous Fruit & Nuts *	1998	306		309	Tons		306,100
	1997	308		764	Tons		727,800
Orchard By-Products	1998						1,060,000
	1997	N/A					
<b>TOTAL</b>	1998	<b>51,011</b>				<b>\$</b>	<b>84,520,200</b>
	1997	<b>47,529</b>				<b>\$</b>	<b>100,037,600</b>

\*Includes Apricots, Bushberries (Boysenberries, Blackberries & Raspberries), Chestnut, Feijoa/Guava, Figs, Grapefruit, Grapes, Jujube, Lemon, Limes, Loquat, Nectarines, Olives, Oranges (Mandarin, Naval & Valencia), Pecan, Pistachios, Plums, Pomegranates, Tangerines, Tangelos and other miscellaneous fruit and nut crops of a limited number of growers/processors in Sutter County.

**FRUIT AND NUT CROPS  
BEARING AND NON-BEARING ACREAGE\***

<b>CROP</b>	<b>BEARING ACRES</b>		<b>NON-BEARING ACRES</b>	
	<b>1997</b>	<b>1998</b>	<b>1997</b>	<b>1998</b>
Almonds	3,450	4,026	456	1,250
Apples	709	826	261	100
Apricots	6	5	0	0
Cherries	34	33	0	0
Chestnuts	21	21	4	4
Grapes	83	82	50	0
Kiwi	299	220	32	0
Nectarines	77	74	5	5
Olives	10	10	0	0
Oranges, Navel	5	5	3	0
Oranges, Valencia	2	2	0	0
Peaches, Cling	8,154	9,501	678	1,324
Peaches, Freestone	68	121	55	29
Pears	462	432	13	13
Pecans	11	11	4	4
Persimmons	134	126	46	52
Pistachios	40	38	1	1
Plums	37	32	0	0
Prunes	19,053	20,599	4,695	4,487
Strawberries	13	23	0	0
Walnuts, Black	71	71	8	8
Walnuts, English	14,787	14,783	2,752	5,801
Miscellaneous**	27	26	0	0
<b>TOTAL</b>	<b>47,553</b>	<b>51,067</b>	<b>9,063</b>	<b>13,078</b>

\* Acreage from California Crop and Livestock Reporting Service.

\*\*Includes Bushberries, Feijoa/Guava, Fig, Grapefruit, Jujube, Lemon, Lime, Loquat, Oranges (Mandarin), Pomegranates, Tangerines, Tangelos and other miscellaneous fruit and nut crops of a limited number of growers/processors in Sutter County.

## FIELD CROPS ACREAGE, PRODUCTION AND VALUE

CROPS	YEAR	PRODUCTION			UNIT	VALUE	
		HARVESTED ACREAGE	PER ACRE	TOTAL		PER UNIT	TOTAL
BEANS, DRY:							
Baby Lima	1998	1,455	0.89	1,295	Tons	\$ 797.54	\$ 1,032,800
	1997	7,668	1.21	9,278	Tons	546.00	5,067,800
Blackeye	1998	2,758	0.67	1,848	Tons	592.15	1,094,300
	1997	1,883	0.68	1,280	Tons	574.81	735,800
Pink	1998	2,662	0.84	2,236	Tons	465.46	1,040,800
	1997	2,443	0.63	1,539	Tons	594.35	914,700
Miscellaneous*	1998	1,321		991	Tons		702,900
	1997	924		632	Tons		452,100
Corn, field Grain	1998	5,791	4.28	24,785	Tons	107.95	2,675,500
	1997	4,500	5.10	22,950	Tons	113.65	2,608,300
Hay, Alfalfa	1998	6,279	5.50	34,535	Tons	102.80	3,550,200
	1997	5,118	6.22	31,834	Tons	114.75	3,653,000
Hay, Grain	1998	4,838	1.65	7,983	Tons	39.62	316,300
	1997	6,668	1.64	10,936	Tons	42.94	469,600
Hay, Other	1998	3,048	1.58	4,816	Tons	44.49	214,300
	1997	4,201	1.55	6,512	Tons	50.00	325,600
Oats, Grain	1998	451	1.28	577	Tons	87.00	50,200
	1997	131	1.12	147	Tons	85.00	12,500
Pasture, Irrigated	1998	21,500			Acres	120.00	2,580,000
	1997	21,500			Acres	110.00	2,365,000
Pasture, Range, Dry	1998	50,000			Acres	8.00	400,000
	1997	50,000			Acres	7.00	350,000
Rice**	1998	94,442	3.40	321,103	Tons	255.00	81,881,300
	1997	90,437	4.18	378,027	Tons	168.01	63,512,300
Safflower	1998	17,632	0.96	16,927	Tons	300.00	5,078,100
	1997	16,647	1.34	22,307	Tons	328.58	7,329,600

## FIELD CROPS continued

CROPS	YEAR	PRODUCTION			UNIT	VALUE		TOTAL
		HARVESTED ACREAGE	PER ACRE	TOTAL		PER UNIT		
Sorghum, Grain	1998	357	2.40	857	Tons	\$	100.40	\$ 86,000
	1997	1,579	2.82	4,453	Tons		95.49	425,200
Sugarbeets	1998	2,742	25.00	68,550	Tons		40.95	2,807,100
	1997	2,353	24.00	56,472	Tons		39.12	2,209,200
Wheat, Grain	1998	9,886	2.00	19,772	Tons		102.32	2,023,100
	1997	11,168	2.87	32,052	Tons		147.06	4,713,600
Wild Rice	1998	2,859	0.68	1,944	Tons		1,035.82	2,013,600
	1997	1,920	0.87	1,670	Tons		1,008.39	1,684,000
Miscellaneous***	1998	6,000		14,992	Tons			3,762,200
	1997	1,413		5,616	Tons			1,222,800
Field Crop By-Products	1998							714,600
	1997							823,100
<b>TOTAL</b>	1998	<b>234,021</b>						<b>\$ 112,023,300</b>
	1997	<b>230,553</b>						<b>\$ 98,874,200</b>

\* Includes Cranberry Beans, Butter Beans, Black Turtle Beans and other miscellaneous beans of a limited number of growers/processors in Sutter County.

\*\* Includes Production Flexibility Contract (PFC)

\*\*\*Includes Barley, Beans (Kidney & Pinto), Corn (Silage), Cotton, Millet, Popcorn, Sweet Rice and other miscellaneous field crops of a limited number of growers/processors in Sutter County.

## VEGETABLE CROPS ACREAGE, PRODUCTION AND VALUE

CROPS	YEAR	PRODUCTION			UNIT	VALUE	
		HARVESTED ACREAGE	PER ACRE	TOTAL		PER UNIT	TOTAL
Melons,	1998	5,095	7.64	38,926	Tons	\$ 181.62	\$ 7,069,700
Honeydew	1997	6,173	7.94	49,014	Tons	243.00	11,910,400
Pumpkins	1998	650	10.00	6,500	Tons	30.27	196,800
	1997	1,351	14.70	19,860	Tons	31.75	630,600
Squash	1998	300	8.07	2,421	Tons	213.04	515,800
	1997	220	8.65	1,903	Tons	252.54	480,600
Tomatoes,	1998	16,532	29.38	485,710	Tons	54.00	26,228,300
Canning	1997	14,135	30.57	432,107	Tons	51.41	22,214,600
Watermelons	1998	548	20.00	10,960	Tons	85.00	931,600
	1997	998	15.07	15,040	Tons	83.32	1,253,100
Miscellaneous*	1998	852		2,573	Tons		1,736,700
	1997	664		3,546	Tons		1,905,000
<b>TOTAL</b>	<b>1998</b>	<b>23,977</b>					<b>\$ 36,678,900</b>
	<b>1997</b>	<b>23,541</b>					<b>\$ 38,394,300</b>

\*Includes the following crops:

Arugula, Artichoke, Asparagus, Beans (Blackeye, Blue Lake, Brush, Faro, Green, Kentucky Wonder, Long & String), Beets, Bok Choy, Broccoli, Cabbage, Cantaloupe, Carrots, Cauliflower, Chard (Swiss), Chayote, Cilantro, Collard Greens, Corn (Indian & Sweet), Cucumber, Diakon, Eggplant, Gai-Lon, Garlic, Gourds, Herbs, Kohlrabi, Lettuce, Melons (Mixed & Bitter), Mustard Greens, Okra, Onions, Peas, (Blackeye, Snap, Snow & Sugar), Peppers (Bell, Red & Chili), Potatoes, Radish, Shallots, Spinach, Sprouts (Brussel & Bean) Strawberries, Tomatillo, Tomatoes (Fresh), Turnips, Watercress and other miscellaneous vegetables of a limited number of growers/processors in Sutter County.



**SEED CROPS  
ACREAGE, PRODUCTION AND VALUE**

CROPS	YEAR	PRODUCTION			UNIT	VALUE	
		HARVESTED ACREAGE	PER ACRE	TOTAL		PER UNIT	TOTAL
Beans, Dry	1998	1,134	1,147	1,300,698	Lbs	\$ 0.33	\$ 429,200
	1997	1,643	1,235	2,029,105	Lbs	0.33	669,600
Cantaloupe & Honeydew	1998	134	413	55,342	Lbs	2.65	146,700
	1997	55	366	20,130	Lbs	3.14	63,200
Cucumber	1998	750	359	269,250	Lbs	5.82	1,567,000
	1997	785	245	192,325	Lbs	6.66	1,280,900
Pumpkin & Squash	1998	808	588	475,104	Lbs	2.73	1,297,000
	1997	1,146	417	477,882	Lbs	3.69	1,763,400
Rice	1998	3,310	7,600	25,156,000	Lbs	0.14	3,521,800
	1997	2,612	9,000	23,508,000	Lbs	0.10	2,350,800
Safflower	1998	3,710	1,625	6,028,750	Lbs	0.15	904,300
	1997	3,522	3,008	10,594,176	Lbs	0.15	1,589,100
Sunflower	1998	1,688	1,147	1,936,136	Lbs	0.55	1,064,900
	1997	2,813	1,148	3,229,324	Lbs	0.53	1,711,500
Watermelon	1998	1,028	369	379,332	Lbs	3.51	1,331,500
	1997	1,548	261	404,028	Lbs	6.00	2,424,200
Wheat	1998	1,579	1,531	2,417,449	Lbs	0.07	169,200
	1997	1,416	2,870	4,063,920	Lbs	0.08	325,100
Miscellaneous*	1998	898		751,520	Lbs		1,017,800
	1997	504		431,701	Lbs		473,200
<b>TOTAL</b>	<b>1998</b>	<b>15,039</b>					<b>\$ 11,449,400</b>
	<b>1997</b>	<b>16,044</b>					<b>\$ 12,651,000</b>

\*Includes Cabbage, Carrot, Clover, Corn, Cowpeas, Gourd, Kale, Onion, Tomato, Turnip, Wild Rice, and other miscellaneous seed crops of a limited number of growers/processors in Sutter County.

**NURSERY PRODUCTS  
ACREAGE, PRODUCTION AND VALUE**

<b>NURSERY CROPS</b>	<b>YEAR</b>	<b>FIELD ACRES</b>	<b>QUANTITY SOLD</b>	<b>UNIT</b>	<b>TOTAL</b>
Fruit & Nut	1998	230	2,256,372	Each	\$ 9,461,800
Trees & Vines	1997	285	2,754,000	Each	11,252,600
Ornamental Trees, Shrubs and other Nursery Stock	1998	61			429,100
	1997	58			586,700
	<b>1998</b>	<b>291</b>			<b>\$ 9,890,900</b>
<b>TOTAL</b>	<b>1997</b>	<b>343</b>			<b>\$ 11,839,300</b>

**APIARY PRODUCTS  
PRODUCTION AND VALUE**

<b>ITEM</b>	<b>YEAR</b>	<b>PRODUCTION</b>	<b>UNIT</b>	<b>VALUE PER UNIT</b>	<b>TOTAL</b>
Honey	1998	336,580	Pounds	\$ 0.60	\$ 201,900
	1997	320,552	Pounds	0.69	221,200
Beeswax	1998	8,554	Pounds	1.74	14,900
	1997	8,147	Pounds	1.74	14,200
Package Bees	1998	7,700	Pounds	9.00	69,300
	1997	7,150	Pounds	10.00	71,500
Queen Bees	1998	22,420	Each	5.50	123,300
	1997	36,770	Each	6.50	239,000
Pollination	1998	46,148	Colony	21.63	998,200
	1997	39,760	Colony	17.87	710,500
	<b>1998</b>				<b>\$ 1,407,600</b>
<b>TOTAL</b>	<b>1997</b>				<b>\$ 1,256,400</b>

**LIVESTOCK AND POULTRY  
PRODUCTS  
PRODUCTION AND VALUE**

ITEM	YEAR	PRODUCTION			VALUE		TOTAL
		NUMBER	TOTAL LIVEWEIGHT	UNIT	PER UNIT	UNIT	
Cattle & Calves	1998	16,760	146,397	Cwt.	\$ 52.87	\$	7,740,000
	1997	17,630	151,621	Cwt.	54.75		8,301,200
Sheep & Lambs	1998	19,848	24,533	Cwt.	62.45		1,532,100
	1997	18,044	22,302	Cwt.	56.81		1,267,000
Wool	1998	122,532		Lbs.	0.40		49,000
	1997	93,348		Lbs.	0.65		60,700
Miscellaneous*	1998						3,026,700
	1997						4,363,400
Livestock By-Products	1998						5,000
	1997	N/A					
<b>TOTAL</b>	<b>1998</b>					<b>\$</b>	<b>12,352,800</b>
	<b>1997</b>					<b>\$</b>	<b>13,992,300</b>

\*Includes Angora Fur, Aquaculture, Bait Products, Chickens, Chicken Eggs, Ducks, Geese, Goats, Milk (Market), Chukar, Hogs & Pigs, Pheasants, Pigeons, Rabbits, Rabbit Hides, Turkeys and other miscellaneous livestock and poultry of a limited number of growers/processors in Sutter County.

**SUMMARY**  
**FARM VALUE OF AGRICULTURAL PRODUCTION**

	<u>1997</u>		<u>1998</u>
FRUIT & NUT CROPS	\$ 100,037,600	FRUIT & NUT CROPS	\$ 84,520,200
FIELD CROPS	98,967,200	FIELD CROPS	112,023,300
SEED CROPS	12,651,000	SEED CROPS	11,449,400
VEGETABLE CROPS	38,425,900	VEGETABLE CROPS	36,678,900
NURSERY PRODUCTS	11,839,300	NURSERY PRODUCTS	9,890,900
APIARY PRODUCTS	1,256,400	APIARY PRODUCTS	1,407,600
LIVESTOCK & POULTRY PRODUCTS	13,992,300	LIVESTOCK & POULTRY PRODUCTS	12,352,800
<b>TOTAL</b>	<b>\$ 277,169,700</b>		<b>\$ 268,323,100</b>

**TEN LEADING CROPS AND VALUE\***

	<u>1997</u>		<u>1998</u>
RICE	\$ 66,492,100	RICE	\$ 87,963,300
WALNUTS	\$ 29,870,700	PEACHES	\$ 34,270,200
PRUNES	\$ 28,134,800	TOMATOES	\$ 26,332,600
PEACHES	\$ 27,974,100	WALNUTS	\$ 19,944,400
TOMATOES	\$ 22,214,600	PRUNES	\$ 16,971,800
MELONS	\$ 16,339,900	NURSERY PRODUCTS	\$ 9,890,900
NURSERY PRODUCTS	\$ 11,839,300	MELONS	\$ 9,760,900
SAFFLOWER	\$ 8,918,700	ALMONDS	\$ 8,310,800
CATTLE & CALVES	\$ 8,301,200	CATTLE & CALVES	\$ 7,740,000
BEANS	\$ 7,883,800	SAFFLOWER	\$ 5,982,400

\*Includes Seed. Rice does not include Wild Rice.

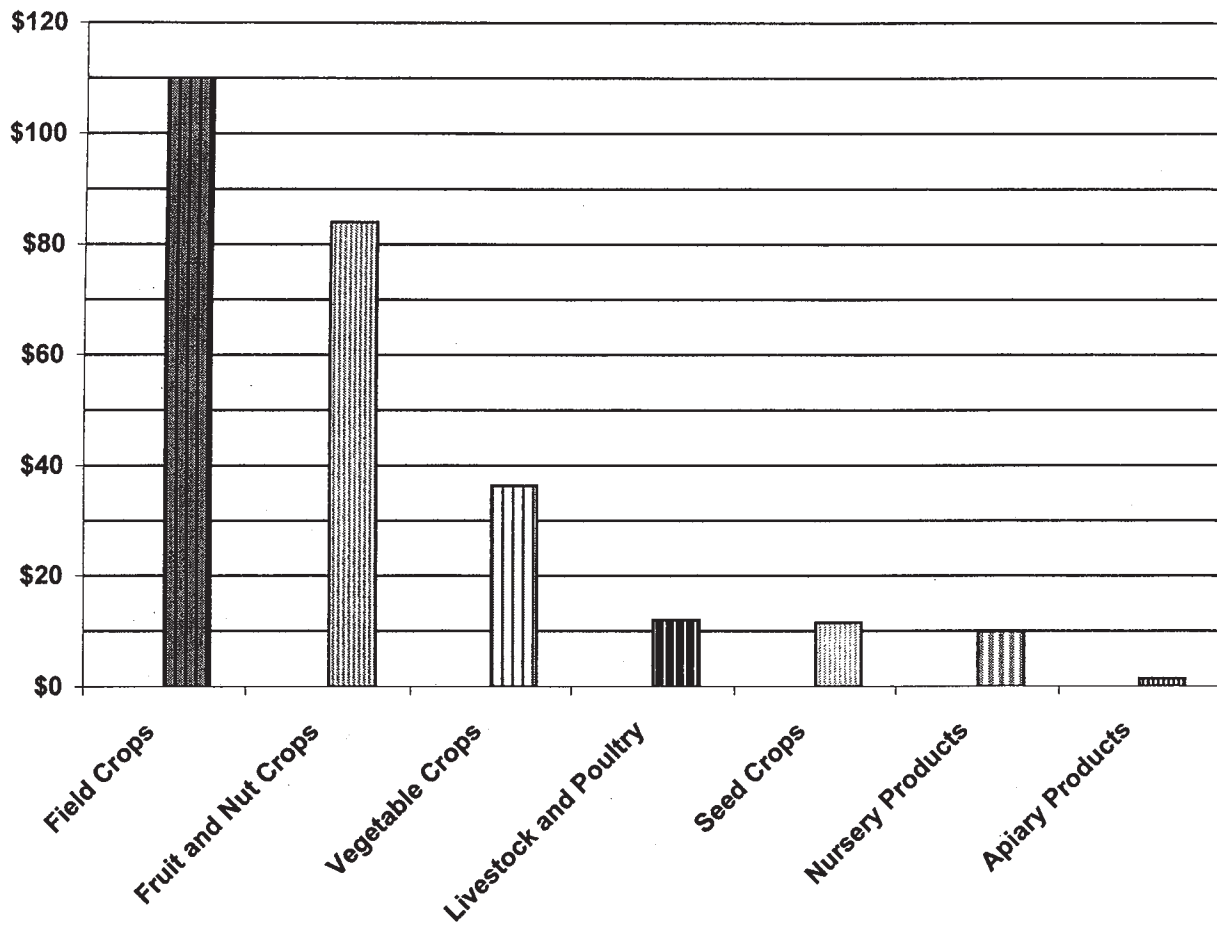
**GROSS VALUE  
OF  
AGRICULTURAL PRODUCTION**

<u>YEAR</u>	<u>VALUE</u>	<u>YEAR</u>	<u>VALUE</u>
1945	\$ 33,381,000	1972	\$ 95,118,000
1946	\$ 41,347,000	1973	\$ 159,204,000
1947	\$ 41,291,000	1974	\$ 179,719,000
1948	\$ 39,684,000	1975	\$ 187,517,000
1949	\$ 36,731,000	1976	\$ 178,554,000
1950	\$ 41,930,000	1977	\$ 200,878,000
1951	\$ 52,003,000	1978	\$ 220,502,000
1952	\$ 49,494,000	1979	\$ 258,666,900
1953	\$ 44,815,000	1980	\$ 299,014,700
1954	\$ 38,783,000	1981	\$ 316,465,900
1955	\$ 43,224,000	1982	\$ 247,784,100
1956	\$ 49,381,000	1983	\$ 205,335,300
1957	\$ 41,313,000	1984	\$ 262,285,500
1958	\$ 38,786,000	1985	\$ 255,449,600
1959	\$ 50,707,000	1986	\$ 229,364,800
1960	\$ 50,536,000	1987	\$ 216,183,600
1961	\$ 55,585,000	1988	\$ 201,345,800
1962	\$ 57,322,000	1989	\$ 243,940,200
1963	\$ 55,155,000	1990	\$ 217,400,000
1964	\$ 66,740,000	1991	\$ 268,941,900
1965	\$ 64,564,000	1992	\$ 285,622,700
1966	\$ 71,627,000	1993	\$ 292,108,300
1967	\$ 69,313,000	1994	\$ 340,171,300
1968	\$ 80,275,000	1995	\$ 330,170,500
1969	\$ 74,006,000	1996	\$ 302,706,400
1970	\$ 77,238,000	1997	\$ 277,169,700
1971	\$ 82,209,000	1998	\$ 268,323,100

**AGRICULTURAL PRODUCTION COMPARISON**  
**- 1997 -**

COUNTY	1997 RANK	GROSS VALUE	TOTAL COUNTY ACRES	FARMLAND ACRES	PERCENT FARMLAND	AG VALUE PER COUNTY ACRES
<b>Fresno</b>	1	\$ 3,313,426,000	4,080,000	2,134,762	52%	\$ 812.11
<b>Tulare</b>	2	\$ 2,801,021,000	3,158,400	1,512,589	48%	\$ 886.85
<b>Kern</b>	3	\$ 2,067,028,000	5,223,000	3,037,068	58%	\$ 395.75
<b>Monterey</b>	4	\$ 1,934,907,558	2,127,360	1,426,212	67%	\$ 909.53
<b>Sutter</b>	22	\$ 277,169,700	388,480	320,000	82%	\$ 713.47

**1998 SUTTER COUNTY AGRICULTURAL PRODUCTION**  
**(VALUE IN MILLIONS OF DOLLARS)**



1998

**SUTTER COUNTY EXPORTS**

**VEGETABLE SEEDS**

Seeds include the following: Alfalfa, artichoke, asparagus, bean, beet, broccoli, cabbage, carrot, cauliflower, celery, chard (swiss), collard, coriander, corn, cucumber, eggplant, endive, leek, lettuce, melon, mustard, okra, onion, parsley, pea, pepper, pumpkin, radish, rice, spinach, squash, tomato, turnip, watermelon, grass seed

Costa Rica	Syria	Jordan
Uruguay	People's Republic of China	Chile
Mauritius	Trinidad & Tobago	India
Guyana	Greece	Honduras
Spain	Philippines	Thailand
Martinique	Netherlands	Peru
Colombia	Saudi Arabia	Argentina
Sri Lanka	Venezuela	France
Portugal	Guatemala	Lebanon
Japan	Dominican Republic	Hong Kong
Brazil	United Arab Emirates	Pakistan
South Africa	Mexico	Turkey
Italy	Ecuador	Jamaica
Paraguay	Australia	Morocco
Bolivia	Haiti	Russia
Grenada	Norway	Senegal
Egypt	Nicaragua	Ghana
Fiji Islands		

**PADDY RICE/WILD RICE**

France	Germany	Switzerland
Mexico	United Kingdom	Republic of Korea
Turkey	Austria	Finland

**DRIED PRUNES**

Sweden	Barbados	Singapore
Germany	Switzerland	Greece
Canada	Colombia	France
Israel	Italy	Norway
Venezuela	United Arab Emirates	Denmark
Brazil	United Kingdom	Jamaica
Egypt	French Polynesia	Latvia
Taiwan	Spain	Finland
Poland	Mexico	Japan
Panama	Belgium	Australia
Cyprus	Vietnam	Saudi Arabia
Korea	Indonesia	Peru

**FRESH CHERRIES**

Japan

**FRESH PRUNES**

Taiwan

**DRY BEANS/PEAS/POPCORN**

Martinique	French Guiana	Saudi Arabia
Costa Rica	United Arab Emirates	New Zealand
Panama	Trinidad & Tobago	Jamaica
Guadeloupe	Italy	Australia
New Caledonia	French Polynesia	Hong Kong
Venezuela	Antigua/Barbuda	Cyprus
Colombia	Bahrain	Philippines
South Africa	Barbados	Taiwan
Kuwait	Portugal	Belize
Jordan		

**FRESH GARLIC**

Mexico

**FRESH KIWI**

Republic of Korea	Taiwan	Mexico
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**WALNUTS - MEATS AND IN SHELL**

Malta	Cyprus	Spain	Singapore
Brazil	Canada	Italy	Germany

**FRESH SQUASH**

Japan

**FRESH MELONS**

Japan	Mexico	Taiwan
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**APRICOT KERNELS**

Morocco	Mexico
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**STRAWBERRY PLANTS**

Mexico	Lebanon	Spain
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**ASPARAGUS**

Japan

**MILLET**

Mexico

# SUSTAINABLE AGRICULTURE

JANUARY - DECEMBER 1998

## ORGANIC PRODUCERS

Twenty-six (26) Organic Producers Registered in Sutter County

## BIOLOGICAL CONTROL

<u>Pest</u>	<u>Control Agent</u>	<u>Program Scope</u>
Puncture Vine <i>Trebulus terrestris</i>	Seed & Stem Weevils <i>Microlarinus lareynii</i> <i>Microlarinas lypriformis</i>	1 release, survey
Yellow Starthistle (YST) <i>Centaurea solstitialis</i>	Flower Head Weevils <i>Bangasternus orientalis</i> <i>Larinus curtus</i>	5 sites; no releases 2 sites; no releases
	YST Hairy Weevil <i>Eustenopus villosus</i>	8 sites; 3 releases
	YST Gall Fly <i>Urophora sirunaseva</i>	3 sites; no releases

## PEST DETECTION

	<u>Visual Hours</u>	<u>Number of Properties</u>	<u>Number of Acres</u>
Commercial Crops	75	17	1,199
Public Contact	85	10	3
Special Survey:			
Apple Maggot	59	16	671
Jointedvetch	2	2	2
Purple Loosestrife	8	2	3
Cherry-Mediterranean Fruit Fly	5	4	33
Khapra Beetle	28	23	N/A

## EXOTIC PEST DETECTION

	<u>Traps in Operation (Seasonal High)</u>	<u>Total Number of Services</u>
Mediterranean Fruit Fly	110	1,090
Oriental Fruit Fly	21	208
Melon Fruit Fly	21	178
Gypsy Moth	60	350
Japanese Beetle	42	277
European Pine Shoot Moth	5	24

## PEST ERADICATION

	<u>Properties</u>
White Horsenettle	4
Purple Starthistle	1
Artichoke Thistle	9
Diffuse Knapweed	Eradicated 1995
Scotch Thistle	Eradicated 1995
Hydrilla	Eradicated 1992
Rice Root Nematode	Eradicated 1989
Barb Goatgrass	Eradicated 1968

## PEST EXCLUSION

	<u>Total Units Inspected</u>
Interstate, Intrastate, & Foreign Shipments	48,526

## VERTEBRATE PEST CONTROL

	<u>Properties</u>	<u>Control Agents</u>	<u>Units Used/Sold</u>
Ground Squirrels, Gophers, Jackrabbits, Rats & Mice	665	Anticoagulant Bait Anticoagulant, Paraffin Blocks Zinc Phosphide Bait Maki Strychnine (Below ground use only)	1,727 1,346 1,847 144 7
Muskrats, Skunks, Opossums, Raccoons, Fox, Beavers & Coyotes	491	Live Trapping and Other Methods	



**AGRICULTURAL COMMISSIONER  
SEALER OF WEIGHTS & MEASURES  
MARK P. QUISENBERRY**

**ASSISTANT AGRICULTURAL COMMISSIONER  
Rick Landon**

**ASSISTANT DIRECTOR OF WEIGHTS & MEASURES  
Rallin C. Ahlers**

**DEPUTY AGRICULTURAL COMMISSIONER  
Stan Anderson**

**SUPERVISING AGRICULTURAL & STANDARDS BIOLOGIST  
Michael S. Furuta**

**AGRICULTURAL & STANDARDS BIOLOGIST III  
Harold Dirks Mark Brown Harkirat Hothi Margaret Stelmok**

**AGRICULTURAL & STANDARDS BIOLOGIST II  
Kurt Schoenwald**

**AGRICULTURAL & STANDARDS BIOLOGIST I  
Janice Kendel Jeff Citron David Karnegas  
Alfred Barth Lisa Pedley**

**AGRICULTURAL FIELD ASSISTANT II  
Paul Schwall Kenneth Woolery Dennis Hanna**

**ANIMAL DAMAGE CONTROL SPECIALIST  
Jim Kincaide**

**SUPPORT STAFF**

**Marguerite "Sue" Habel, EXECUTIVE SECRETARY I  
Laura Poma, ACCOUNT CLERK III  
Anna Anderson/Rosemary Pierson, CLERICAL SPECIALIST  
Whitley Graham/Gladys Pair, OFFICE ASSISTANT II  
Debbie Faria, OFFICE ASSISTANT I**