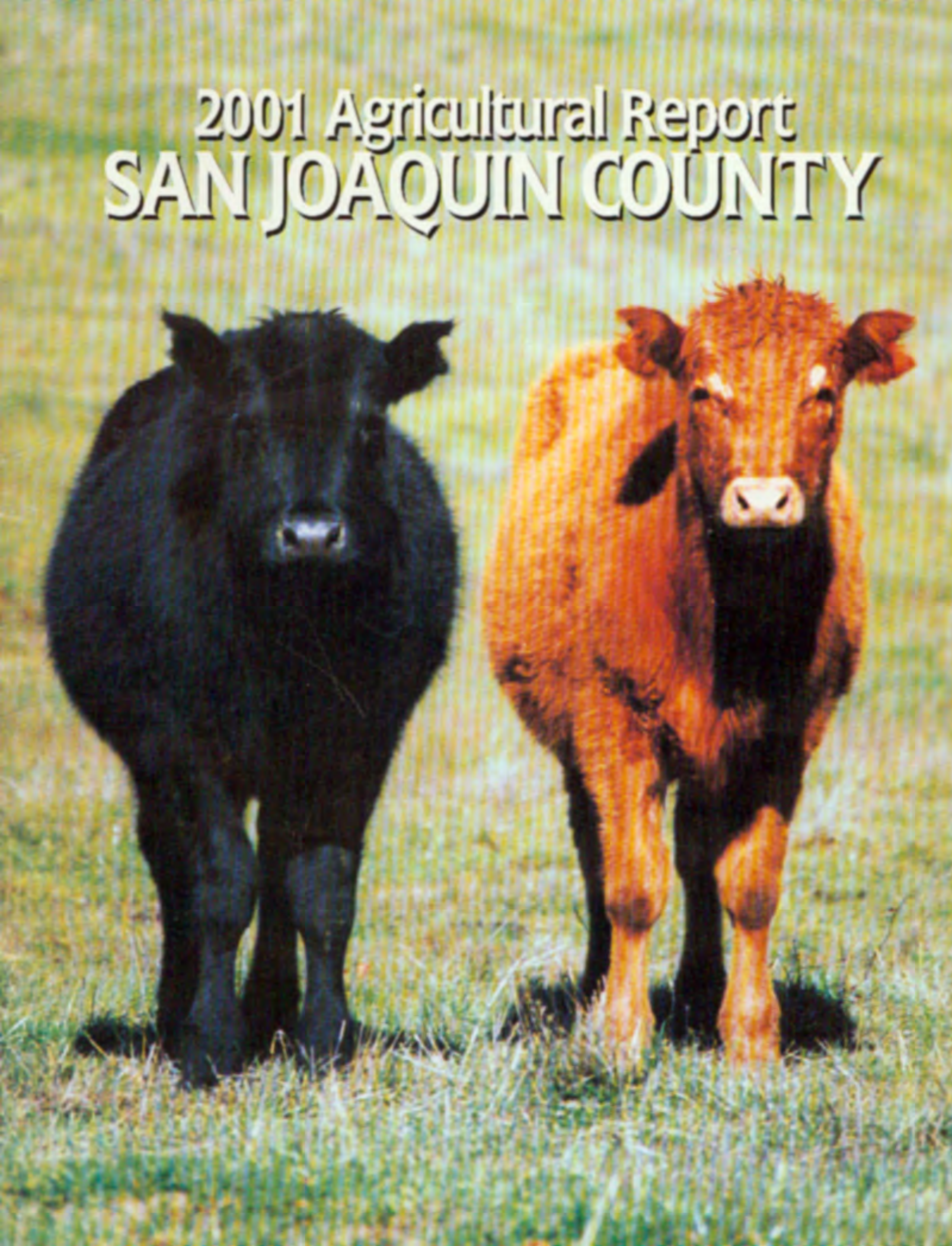
2001 Agricultural Report
SAN JOAQUIN COUNTY



Cattle and Calves

This year's San Joaquin County Crop Report is dedicated to our Cattle and Calf Industry. The cattle business has been an important part of California's history and economy since before the Gold Rush.

Cattle are considered to have been one of the first animals domesticated by man for agricultural purposes. It is not clear when cattle domestication first took place, however, cattle have been depicted in prehistoric drawings, tomb carvings and pictures.

The first domestic cattle provided milk, meat, and hides. They were also used as draft animals and for transportation. The same animal was used for meat, milk and for working purposes. Later men began breeding cattle specifically for use as beef animals or milk producers. Early cattle raisers were nomads, following their herds in search of grazing land for their animals. Eventually, some herdsman settled down and fed their cattle grain and stored forage feeds in addition to grass.

Domesticated cattle are in the family *Bovidae*. They belong to the genus *Bos* that includes the two species *taurus* (syn *bovis*) and *indicus*. All breeds of cattle from European ancestry such as: Angus, Hereford, Charlais, and Simmental belong to the species *taurus*. Tropical countries are home to the *indicus* species, which include humped cattle like the Brahman and Africander.

Many believe that the first herd of cattle in the U.S. grazed in what is now Texas as early as 1583. They were descendents from cows brought from Spain by ship to Mexico in 1521. These cattle were the ancestors of the legendary Texas Longhorns.

Cattle became established in California after Juan Bautista de Anza brought the first herd to the San Gabriel Mission from Mexico in 1774. Cattle in California were originally raised for hides and tallow. The cattle industry changed dramatically as miners poured into the state during the Gold Rush. The custom of slaughtering cattle for only their hides and tallow immediately gave way to the more profitable practice of driving the animals to market to sell as beef. A cow that was once worth up to four dollars now sold for as much as 75 dollars in San Francisco. Entrepreneurs from the eastern states soon realized the demand on the California's beef industry and began driving eastern cattle over the main immigrant roads. By the end of 1853, 62,000 head had entered the state.

The present-day beef cattle industry in San Joaquin County can be divided into two major phases: the purebred registered beef cattle production, and commercial beef production. The purebred operation is a small and specialized element of beef cattle production. It is designed to generate the breeding stock for commercial beef producers. The commercial producer's objective is to produce the maximum pounds of beef at the lowest possible cost. The commercial beef producers can be sub-divided into three operations: the breeding herd, usually referred to as the cow and calf operation; the stocker operation which purchases young animals to produce pounds of beef; and the feedlot or finishing operation where cattle, held in confinement, are fed grains and agricultural by-products to efficiently gain weight. The number of feed lots in California has declined over the years because of stringent regulations and the departure of facilities to other states.

Beef operations in San Joaquin County are typically small family owned operations that have been in the same family for four or five generations. Most present day operations run less then one hundred head of cattle and are not the sole source of income for their owners.

The number of cattle and cattle operations in San Joaquin County have decreased during the last 25 five years or so. In 2001, there was an estimated 159 operations taking care of 21,000 cattle. As recently as 1997, there was 423 beef operations running 27,200 cattle. Regardless of the number of operations or the operation's size, long term success requires careful stewardship of animals and the environment. As long as there is range, pastureland and other abundant agricultural products to feed their cattle, ranchers in San Joaquin County will continue to use these rich resources to provide quality beef products for hungry consumers.

A SPECIAL "THANK YOU"

The San Joaquin County Agricultural Commissioner's Office expresses its deep appreciation to the San Joaquin Farm Bureau Federation and Ag Credit of California for their contributions to the 2001 Crop Report. We would also like to thank the San Joaquin County Cooperative Extension for their contributions and Kelly R. Viss for the cover photograph. Without their support the publication of this report would not be possible.

SAN JOAQUIN COUNTY
AGRICULTURAL COMMISSIONER'S OFFICE

2001 ANNUAL CROP REPORT

Scott Hudson
Agricultural Commissioner

Compiled by
Ted Viss and Don McCoon

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Laura Borjon	Office Assistant II
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Carol Giuffre	Office Assistant II
Terry King	Accounting Technician II
Swaran Prasad	Office Assistant II, Tracy
Laura Rocha	Office Assistant II, Simms Station

All staff are based in Stockton unless otherwise noted.

SAN JOAQUIN COUNTY
OFFICE OF THE
AGRICULTURAL COMMISSIONER

SCOTT HUDSON
AGRICULTURAL COMMISSIONER
SEALER OF WEIGHTS & MEASURES
ANIMAL CONTROL

VICKI HELMAR
ASST. AGRICULTURAL COMMISSIONER
ASST. SEALER OF WEIGHTS & MEASURES

POST OFFICE BOX 1809
STOCKTON, CALIFORNIA 95201-1809
PHONE: 209/468-3300
FAX: 209/468-3330

MAIN OFFICE - STOCKTON
1868 E. HAZELTON AVE.

LODI OFFICE
210 N. SACRAMENTO ST.

MANTECA OFFICE
392 S. MOFFATT BLVD.

TRACY OFFICE
503 E. 10TH STREET

ESCALON OFFICE
1540 ROOSEVELT ST.

WILLIAM J. LYONS JR., SECRETARY
CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE
AND
THE HONORABLE BOARD OF SUPERVISORS
SAN JOAQUIN COUNTY

Dear Secretary and Board Members:

In accordance with Section 2279 of the California Food and Agriculture Code, I am pleased to present the sixty-eighth Annual Report of Agricultural Production in San Joaquin County. The values shown are estimates based on the most common method of sale for the individual commodity, except for fresh fruits and vegetables where the value is based on the F.O.B. packed price at the shipping point. The figures contained in this report are gross values rather than net returns to the grower.

The gross value of agricultural production for 2001 in San Joaquin County is estimated to be $1,389,307,000. This represents a 3.7% increase from the estimated $1,348,628,000 for 2000. Significant increases occurred in Field Crops, Nursery, Apiary, and Livestock & Poultry Products. Seed Crops and Vegetable Crops remained relatively static. Fruit & Nut Crops and Livestock & Poultry decreased in value. Highlights of the 2001 crop year are as follows:

- Milk reclaimed the county's number one commodity title for the first time since 1994, with a value of $298,368,000.
- Cherry total value for 2001 reached an all-time high, elevating it to third on the "top ten list".
- Grape value decreased sharply because of yield and price reductions.
- Animal feed commodities, such as hay and silage, experienced an increase in acreage and total value.
- Field Crops increased in value and acreage for the first time since 1997.
- Dry bean acreage declined in 2001 because of poor market demand in 2000 and large carry-over inventory.
- Sugarbeet acreage dropped to zero with the permanent closure of the last local processing plant.
- Woody Ornamentals continues to spark the county's growing nursery industry, rising to number eight on the county's "top ten list".

I wish to express my sincere appreciation to all who assisted my biologists and deputies by furnishing the necessary information that made this report possible.

Respectfully submitted,

Scott Hudson
Agricultural Commissioner

FIELD CROPS

CROP	YEAR	PRODUCTION HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	GROSS VALUE SUBTOTAL	TOTAL
BEANS, DRY, ALL	2001	15,200	1.05	16,000	TON	$617.00		$9,875,000
	2000	21,700	1.09	23,600	TON	$527.00		$12,431,000
BLACKEYE	2001	3,700	0.98	3,600	TON	$550.00	1,998,000	
	2000	7,400	1.13	8,400	TON	$367.00	3,069,000	
KIDNEY	2001	4,200	0.83	5,200	TON	$728.00	2,525,000	
	2000	4,900	1.07	5,200	TON	$685.00	3,587,000	
LIMA	2001	5,500	1.31	7,200	TON	$685.00	4,915,000	
	2000	9,100	1.10	10,000	TON	$560.00	5,617,000	
GARBANZO	2001	1,750	0.48	840	TON	$520.00	437,000	
	2000	322	0.78	250	TON	$634.00	158,000	
CORN, GRAIN	2001	57,800	4.76	275,000	TON	$92.00		$25,409,000
	2000	56,500	5.13	289,800	TON	$88.00		$25,359,000
HAY, ALL	2001	78,200	6.47	505,600	TON	$120.00		$60,659,000
	2000	75,700	5.49	415,400	TON	$99.00		$41,316,000
ALFALFA	2001	59,900	7.20	431,400	TON	$125.00	54,012,000	
	2000	57,600	6.22	358,000	TON	$105.00	37,587,000	
OTHER	2001	18,300	4.05	74,200	TON	$90.00	6,647,000	
	2000	18,100	3.18	57,400	TON	$65.00	3,729,000	
PASTURE & RANGE	2001	146,000			ACRE	$31.00		$4,027,000
	2000	148,000			ACRE	$31.00		$4,035,000
IRRIGATED	2001	16,700			ACRE	$125.00	2,082,000	
	2000	16,600			ACRE	$125.00	2,070,000	
OTHER	2001	129,700			ACRE	$15.00	1,945,000	
	2000	131,000			ACRE	$15.00	1,965,000	
RICE	2001	6,600	4.01	26,500	TON	$160.00		$4,368,000
	2000	6,200	3.50	21,700	TON	$160.00		$3,472,000
SAFFLOWER	2001	8,500	1.42	12,100	TON	$221.00		$2,668,000
	2000	9,500	1.72	16,300	TON	$217.00		$3,524,000
SILAGE, CORN	2001	37,600	29.87	1,122,500	TON	$21.00		$23,449,000
	2000	33,600	28.89	971,000	TON	$18.00		$17,944,000
SILAGE, OTHER	2001	37,200	10.70	389,200	TON	$19.70		$7,847,000
INCLUDES GREEN CHOP	2000	22,600	10.32	233,100	TON	$24.00		$5,489,000

FIELD CROPS

CROP	YEAR	PRODUCTION HARVESTED ACREAGE	PRODUCTION PER ACRE	PRODUCTION TOTAL	UNIT	GROSS VALUE PER UNIT	GROSS VALUE TOTAL
SUGAR BEETS	2001	0	0.00	0	TON	$0.00	$0
	2000	14,600	28.40	415,600	TON	$32.00	$13,361,000
WHEAT	2001	47,300	2.62	123,800	TON	$92.00	$11,390,000
	2000	30,300	2.60	78,700	TON	$88.00	$6,923,000
OTHER*	2001	3,470					$1,230,000
	2000	1,140					$536,000
TOTAL	2001	437,000					$150,516,000
	2000	420,000					$134,310,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

*INCLUDES BARLEY FOR GRAIN, COTTON AND SUNFLOWERS

SEED CROPS

CROP	YEAR	PRODUCTION HARVESTED ACREAGE	PRODUCTION PER ACRE	PRODUCTION TOTAL	UNIT	GROSS VALUE PER UNIT	GROSS VALUE TOTAL
BEAN SEED, ALL*							
KIDNEY BEAN	2001	814	17.60	14,300	CWT	$34.29	$490,300
	2000	2,450	23.30	57,000	CWT	$33.00	$1,882,000
BEANS, OTHER	2001	543	9.00	4,724	CWT	$32.00	$151,000
	2000	308	15.00	4,770	CWT	$32.10	$153,000
POTATOES, SEED	2001	856	300.00	256,800	CWT	$13.00	$3,338,000
	2000	1,035	277.00	286,300	CWT	$9.20	$2,647,000
VEGETABLE SEED	2001	740					$3,838,000
	2000	810					$2,941,000
MISCELLANEOUS,	2001	220					$125,000
SUDAN, GRAIN & ETC.*	2000	50					$39,000
TOTAL	2001	2,950					$7,778,000
	2000	4,650					$7,662,000

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*INCLUDES CERTIFIED SEED

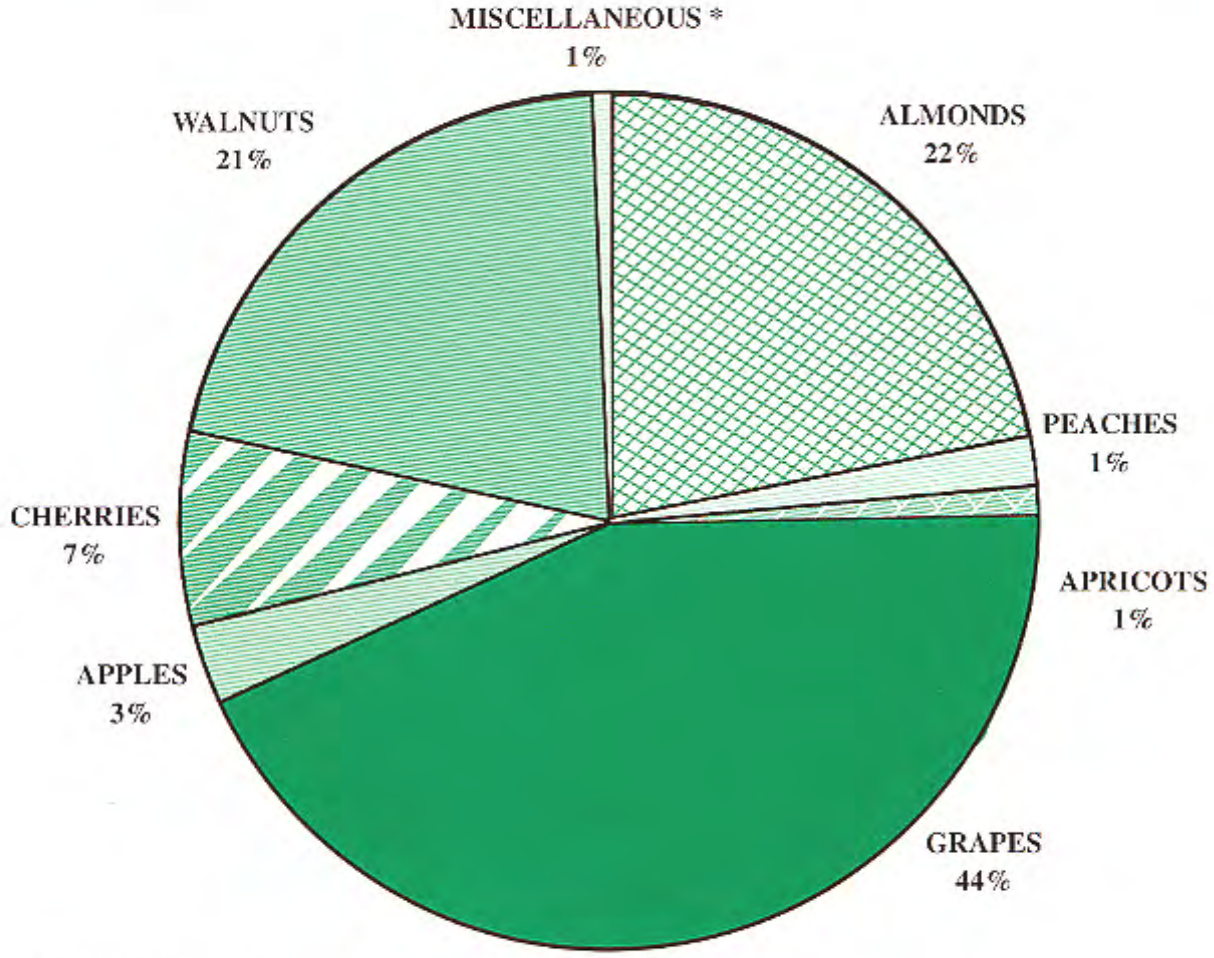
FRUIT AND NUT CROPS

CROP	YEAR	PRODUCTION HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	GROSS VALUE SUBTOTAL	TOTAL
ALMOND, MEATS	2001	43,100	0.80	34,500	TON	$1,780.00		$61,406,000
	2000	41,800	0.87	36,400	TON	$2,400.00		$87,306,000
ALMOND, HULLS	2001			86,300	TON	$77.50		$6,684,000
	2000			91,000	TON	$75.00		$6,819,000
APPLES, ALL	2001	5,787	11.71	68,780	TON	$461.00		$31,248,000
	2000	5,510	10.40	57,500	TON	$589.00		$33,865,000
FRESH	2001			41,700		$712.00	$29,724,000	
	2000			40,066		$819.00	$32,802,000	
PROCESSING	2001			26,100		$58.50	$1,524,000	
	2000			17,436		$61.00	$1,063,000	
APRICOTS	2001	2,620	4.94	13,000	TON	$242.00		$3,129,000
	2000	2,620	9.98	26,200	TON	$210.00		$5,496,000
CHERRIES, ALL	2001	14,300	2.66	38,100	TON	$2,600.00		$99,135,000
	2000	14,000	2.16	30,200	TON	$2,720.00		$82,186,000
FRESH	2001			32,976	TON	$2,945.00	$97,114,000	
	2000			23,733	TON	$3,356.00	$79,648,000	
PROCESSING	2001			5,130	TON	$394.00	$2,021,000	
	2000			6,442	TON	$394.00	$2,538,000	
GRAPES, ALL	2001	84,700	6.92	586,000	TON	$416.00		$243,665,000
	2000	81,000	7.73	627,000	TON	$474.00		$296,888,000
TABLE, CRUSHED	2001	1,640	8.90	14,600	TON	$98.00	$1,427,000	
	2000	2,781	9.49	26,400	TON	$165.00	$4,345,000	
WINE, ALL	2001	83,100	6.87	571,000	TON	$487.00	$242,238,000	
	2000	78,300	7.68	601,000	TON	$487.00	$292,543,000	
FRESH	2001			5,710	TON	$259.00	$1,477,000	
	2000			2,830	TON	$387.00	$1,095,000	
CRUSHED	2001			564,800	TON	$426.00	$240,761,000	
	2000			598,400	TON	$487.00	$291,448,000	
PEACHES, ALL	2001	2,910	16.94	49,300	TON	$298.00		$14,674,000
	2000	2,800	21.36	59,800	TON	$316.00		$18,877,000
CLINGSTONE	2001	2,030	20.00	40,600	TON	$235.00	$9,541,000	
	2000	2,040	22.40	45,700	TON	$233.00	$10,648,000	
FREESTONE	2001	876	9.90	8,670	TON	$592.00	$5,133,000	
	2000	760	18.60	14,140	TON	$582.00	$8,229,000	

FRUIT AND NUT CROPS

CROP	YEAR	PRODUCTION HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	GROSS VALUE PER UNIT	TOTAL
PEARS	2001	617	17.00	10,490	TON	$230.00	$2,413,000
	2000	735	13.80	10,140	TON	$125.00	$1,268,000
WALNUTS, ENGLISH	2001	41,500	1.73	71,810	TON	$1,100.00	$78,986,000
	2000	40,100	1.23	49,310	TON	$1,200.00	$59,167,000
MISCELLANEOUS	2001	995					$5,595,000
	2000	1,129					$4,439,000
TOTAL	2001	197,000					$546,935,000
	2000	190,000					$596,311,000

SAN JOAQUIN COUNTY'S FRUIT AND NUT ACREAGE



*INCLUDES PEARS

VEGETABLE CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION PER ACRE	TOTAL	UNIT	PER UNIT	GROSS VALUE SUBTOTAL	TOTAL
ASPARAGUS	2001	22,400	1.27	28,400	TON	$1,600.00		$45,451,000
	2000	23,600	1.34	31,600	TON	$1,828.00		$57,840,000
CORN, SWEET	2001	2,690	8.54	23,000	TON	$365.00		$8,404,000
	2000	2,460	7.70	19,000	TON	$199.00		$3,774,000
CUCUMBERS	2001	3,520	8.29	29,200	TON	$140.00		$4,086,000
	2000	2,470	7.25	17,900	TON	$182.00		$3,248,000
MELONS, ALL	2001	3,870	19.80	76,700	TON	$169.00		$12,934,000
	2000	2,980	24.30	72,300	TON	$123.00		$8,903,000
WATERMELON	2001	1,450	31.96	46,300	TON	$117.00	$5,409,000	
	2000	2,380	28.00	66,700	TON	$107.00	$7,153,000	
OTHER	2001	2,420	12.56	30,400	TON	$247.00	$7,525,000	
	2000	600	9.26	5,600	TON	$315.00	$1,750,000	
ONIONS, DRY	2001	2,340	23.00	54,700	TON	$205.00		$11,217,000
	2000	4,150	26.00	107,600	TON	$190.00		$20,491,000
PEPPERS	2001	2,180	14.90	32,400	TON	$290.00		$9,421,000
	2000	1,850	15.13	28,000	TON	$294.00		$8,219,000
POTATOES	2001	4,270	16.87	72,000	TON	$261.00		$18,783,000
	2000	3,210	15.45	49,600	TON	$221.00		$10,960,000
PUMPKINS	2001	3,960	11.89	47,100	TON	$146.00		$6,857,000
	2000	4,200	14.17	59,400	TON	$143.00		$8,472,000
TOMATOES, ALL	2001	34,680	29.08	1,008,400	TON	$90.00		$90,979,000
	2000	33,580	30.43	1,022,000	TON	$94.00*		$96,014,000
SHIPPING	2001	10,480	11.01	115,400	TON	$406.00	$46,866,000	
	2000	8,880	11.01	97,700	TON	$495.00	$48,414,000	
PROCESSING	2001	24,200	36.90	893,000	TON	$49.00	$44,113,000	
	2000	24,700	37.42	924,300	TON	$52.00	$47,600,000	
MISCELLANEOUS VEGETABLES	2001	5,250						$19,120,000
	2000	4,150						$8,787,000
TOTAL	2001	85,200						$227,252,000
	2000	82,700						$226,708,000

*revised

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

NURSERY PRODUCTS

ITEM	YEAR	QUANTITY SOLD BY PRODUCERS	UNIT	GROSS VALUE TOTAL
GRAPEVINES, STRAWBERRY PLANTS, FRUIT & NUT TREES	2001	48,838,000	PLANT	$2,875,000
	2000	48,099,000	PLANT	$6,158,000
VEGETABLE PLANTS	2001	195,088,000	PLANT	$6,208,000
	2000	159,541,000	PLANT	$3,503,000
FLOWERING POTTED PLANTS	2001	2,614,000	EACH	$9,678,000
	2000	2,753,000	EACH	$10,112,000
FOLIAGE PLANTS	2001	6,854,000	EACH	$16,477,000
	2000	6,959,000	EACH	$15,209,000
BEDDING PLANTS	2001	718,000	PKG	$4,300,000
	2000	778,000	PKG	$3,508,000
WOODY ORNAMENTALS	2001	9,870,000	EACH	$34,257,000
	2000	8,728,000	EACH	$30,223,000
BULBS, RHIZOMES, TURF, CACTUS, CHRISTMAS TREES, ETC.	2001			$25,429,000
	2000			$19,481,000
TOTAL	2001			$99,224,000
	2000			$88,194,000

APIARY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	PER UNIT	GROSS VALUE TOTAL
HONEY	2001	301,000	LBS	$0.65	$195,000
	2000	146,000	LBS	$0.63	$92,000
BEESWAX	2001	1,804	LBS	$1.13	$2,000
	2000	3,584	LBS	$1.30	$4,700
POLLINATION	2001	182,900	HIVE	$40.80	$7,471,000
	2000	173,700	HIVE	$40.90	$7,113,000
TOTAL	2001				$7,668,000
	2000				$7,210,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

LIVESTOCK AND POULTRY

ITEM	YEAR	NO. HEAD	WEIGHT	UNIT	PER UNIT	GROSS VALUE TOTAL
CATTLE & CALVES	2001	66,100	557,600	CWT	$49.20	$27,455,000
	2000	60,700	509,900	CWT	$55.30	$28,195,000
SHEEP & LAMBS	2001	14,300	17,160	CWT	$71.00	$1,218,000
	2000	12,400	12,200	CWT	$82.30	$1,004,000
BROILERS	2001	1,421,000	4,974,000	LBS	$0.38	$1,890,000
	2000	1,760,000	6,160,000	LBS	$0.37	$2,279,000
OTHER CHICKENS	2001	1,236,000		EACH	$0.02	$25,000
& SPENT HENS	2000	1,798,000		EACH	$0.02	$36,000
TURKEYS	2001	245,000	3,920,000	LBS	$0.42	$1,646,000
	2000	527,000	8,042,000	LBS	$0.42	$3,377,000
OTHER LIVESTOCK*	2001					$7,673,000
	2000					$6,687,000
TOTAL	2001					$39,907,000
	2000					$41,578,000

* Other livestock include hogs, squab, ducks and other fowl.

LIVESTOCK AND POULTRY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	PER UNIT	GROSS VALUE SUBTOTAL	GROSS VALUE TOTAL
MILK, ALL	2001	21,188,000	CWT	$14.08		$298,368,000
	2000	20,513,000	CWT	$11.60		$237,954,000
MARKET	2001	21,050,000	CWT	$14.10	$296,747,000	
	2000	20,267,000	CWT	$11.60	$235,475,000	
MANUFACTURING	2001	138,000	CWT	$11.70	$1,621,000	
	2000	246,000	CWT	$10.10	$2,479,000	
WOOL	2001	81,000	LBS	$0.40		$32,000
	2000	76,000	LBS	$0.41		$31,000
EGGS, CHICKEN	2001	19,363,000	DOZ	$0.50		$9,682,000
	2000	15,814,000	DOZ	$0.44		$6,880,000
MANURE	2001	389,000	TON	$5.00		$1,945,000
	2000	345,000	TON	$5.01		$1,728,000
TOTAL	2001					$310,027,000
	2000					$246,593,000

SOME FACTS, FIGURES AND INTERESTING INFORMATION ABOUT THE BEEF INDUSTRY

- An estimated 901,000 farmers and ranchers raise beef cattle in the United States.
- Cattle and Calves is ranked fourth in commodities grown in California. In 2000 this industry was worth $1.27 billion to the state's economy.
- Every dollar of cattle sales generates an additional $5 to $6 of trade activity in the farm supply and food industry, and in other businesses as well.
- California is the 7th leading beef-producing state in the nation, marketing 2.47 billion pounds of beef in the year 2000.
- In California, 85% of the beef cow operations own less then 100 head of cattle.
- More then 80% of the beef sold in the U.S. is at the retail level.
- Steak is the most popular in-home beef dish. Hamburger is the second most popular in-home item.
- Cattle operations can be found in every county in California except San Francisco.
- California's beef producers operate on a variety of land types and climatic conditions, from arid desert to coastal flats to forestland and high mountain meadows.
- While 98% of each beef animal is used, less then half is consumed as beef.

Cattle By-Products

Gelatin is another food item produced from beef cows. Gelatin is used to make candies, dairy products, desserts, diet products, jellies, and marshmallows.

Household products made from cattle by-products include:

Candles	Insecticides	Plastic
Ceramics	Insulation	Photographic film
Crayons	Linoleum	Shaving cream
Cosmetics	Mouthwash	Soaps
Deodorants	Paints	Synthetic rubber
Detergents	Paper	Textiles
Floor wax	Perfume	Toothpaste

Pharmaceuticals derived from cattle by-products include:

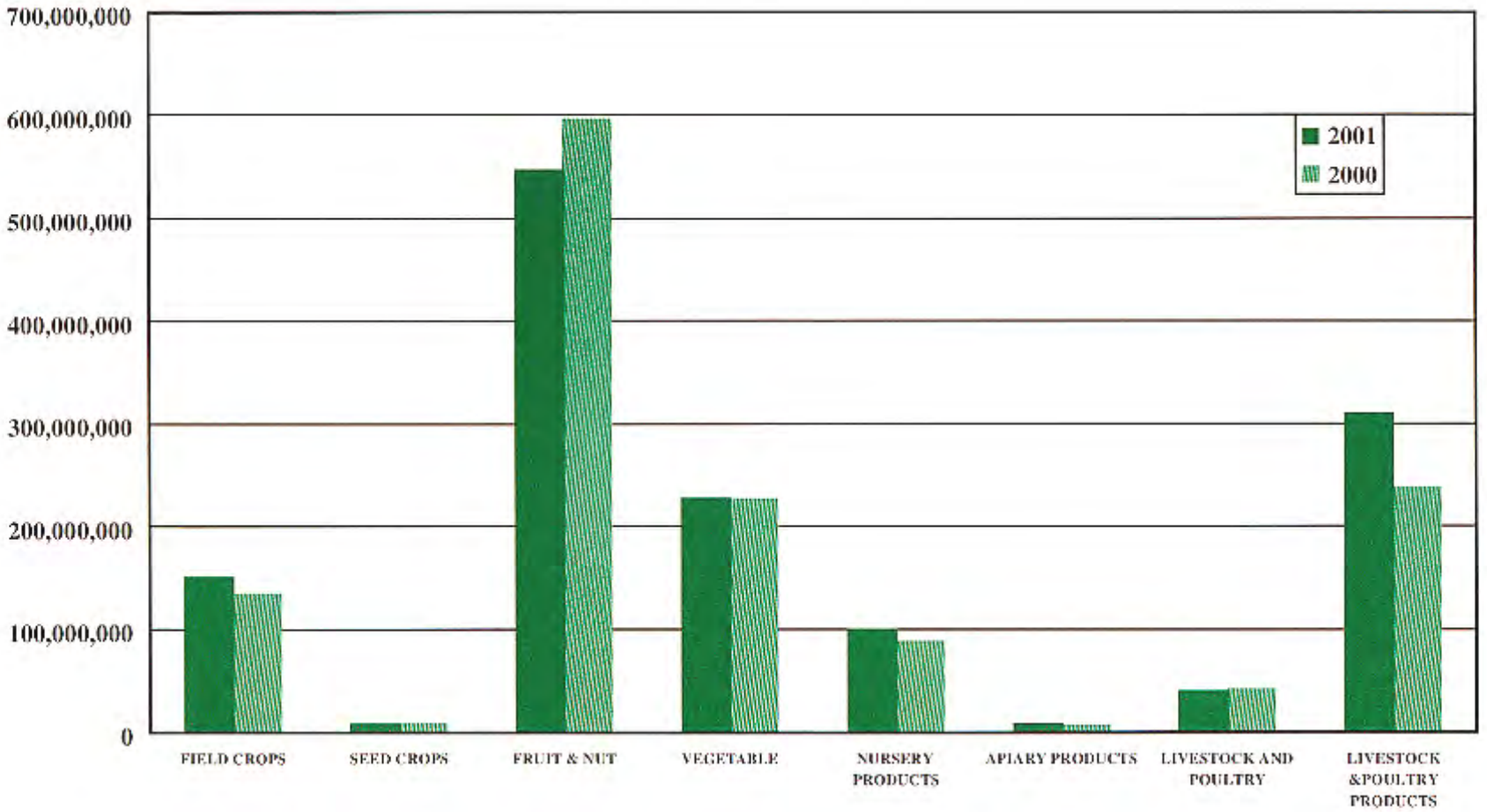
Blood factors (for treating hemophilia, killing viruses and making anti-rejection drugs).
Chymotrypsin (promotes healing of burns and wounds).
Collagen (used in plastic surgery).
Cortisol (an anti-inflammatory drug).
Glucagon (treats hypoglycemia or low blood sugar).
Heparin (anticoagulant used to treat blood clots).
Insulin (for treating diabetes or high blood sugar).
Pancreatin (aids in digestion of food).

Apparel, Coverings and Accessories:

Cowhides provide leather, which is used to make clothing, shoes, boots, belts, purses, wallets, gloves, luggage, and automobile and furniture upholstery.

Information provided by the California Beef Council and the California Cattlemen's Association.

CROP CATEGORY GROSS VALUES

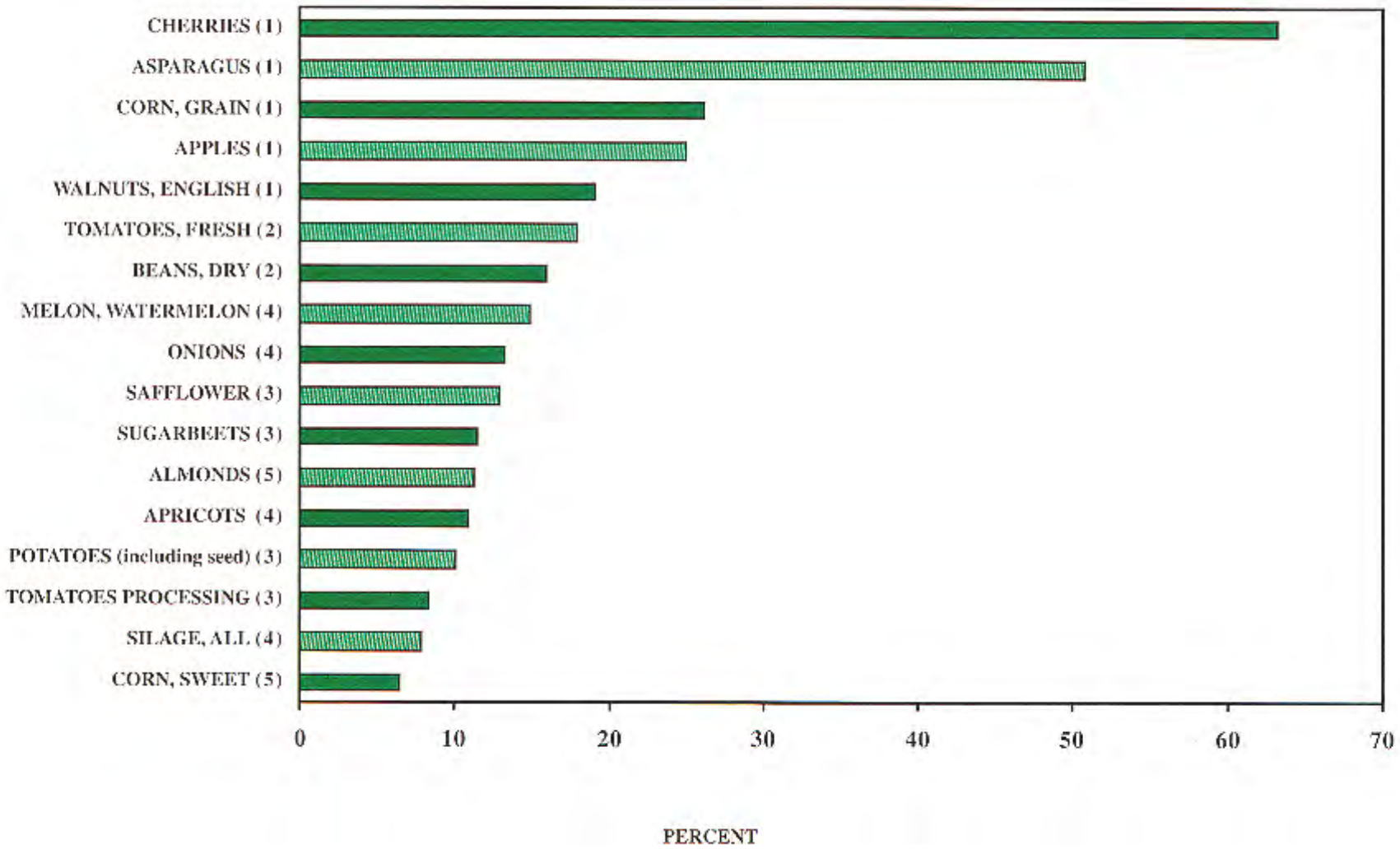


TOTAL VALUE 2000: $1,348,628,000

TOTAL VALUE 2001: $1,389,307,000

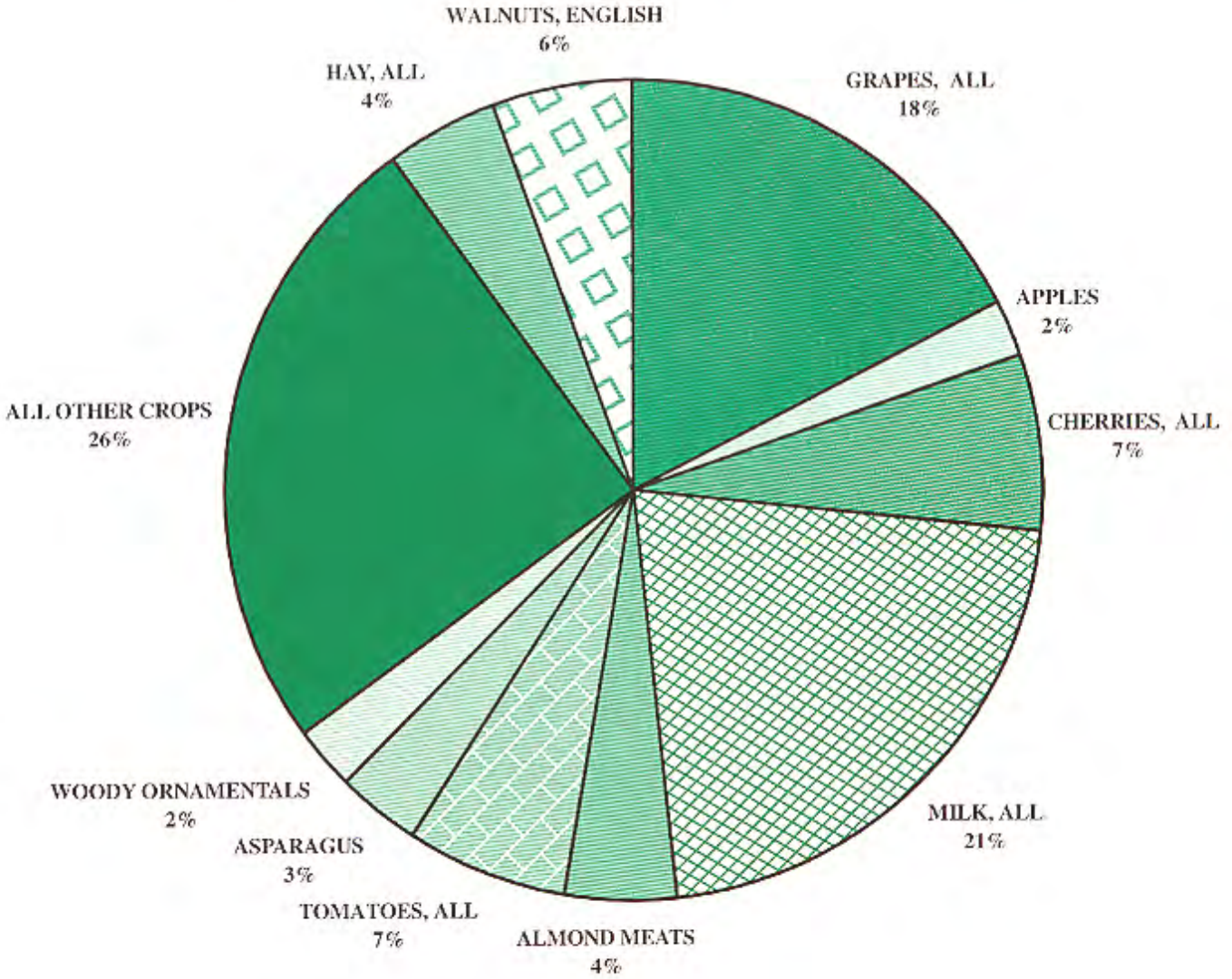
SAN JOAQUIN COUNTY'S SHARE OF PRODUCTION

Listed below are the crops in which San Joaquin County ranked in the top five in the State based on gross value during the 2000 crop year. The bars represent San Joaquin County's percentage of the state value for that crop. The numbers in parentheses next to the crop labels show San Joaquin County's ranking for that crop.



SAN JOAQUIN COUNTY'S TEN LEADING CROPS

MILK, ALL	$298,665,000
GRAPES, ALL	$243,665,000
CHERRIES, ALL	$99,135,000
TOMATOES, ALL	$90,979,000
WALNUTS, ENGLISH	$78,986,000
ALMOND MEATS	$61,406,000
HAY, ALL	$60,659,000
ASPARAGUS	$45,451,000
WOODY ORNAMENTALS	$34,257,000
APPLES	$31,248,000
ALL OTHER CROPS	$347,173,000

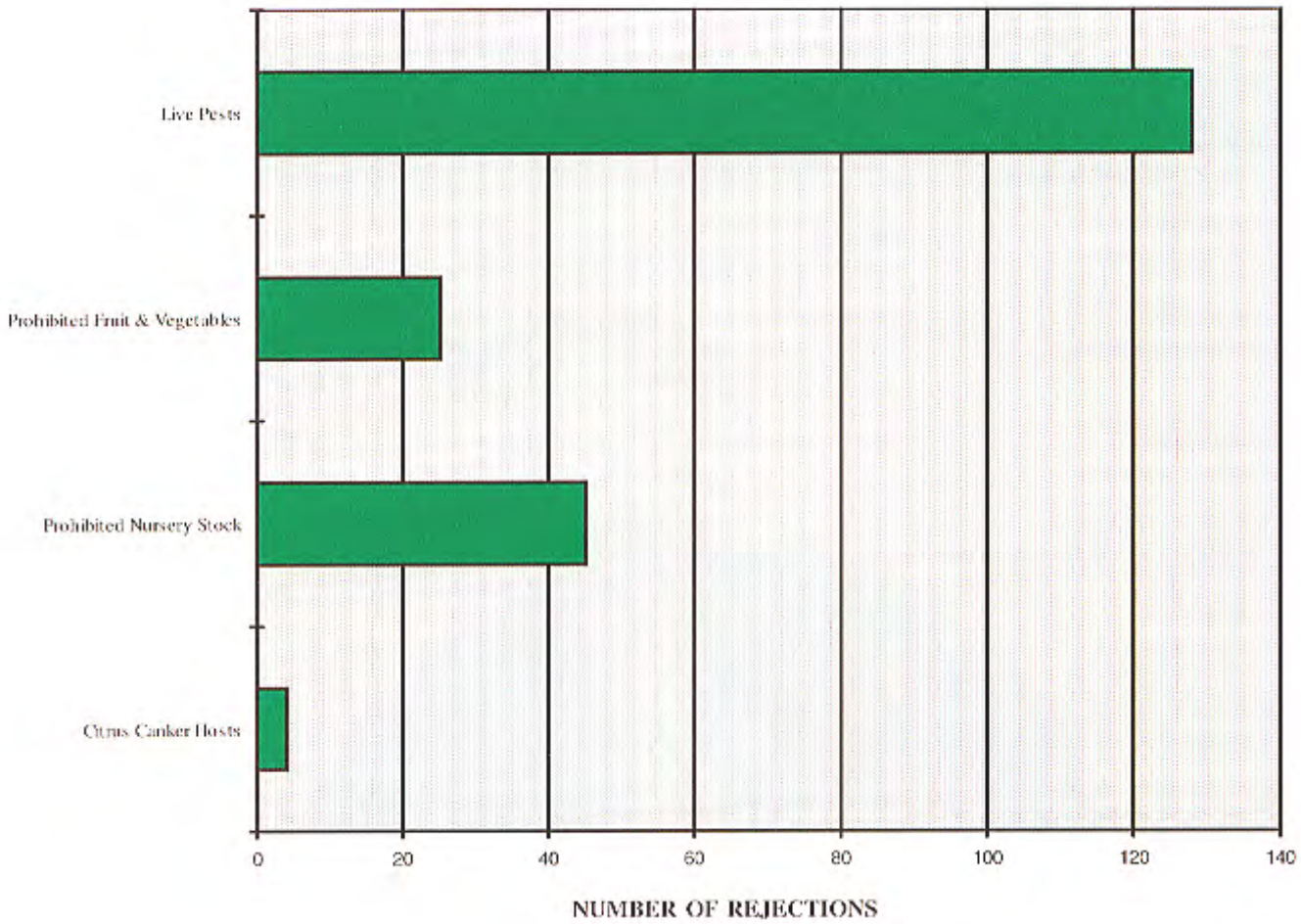


SAN JOAQUIN COUNTY SUSTAINABLE AGRICULTURE
2001 BIOLOGICAL CONTROL

WEED PESTS	BIO CONTROL ORGANISM	SCOPE OF PROGRAM
Bull Thistle *Cirsium vulgare*	bull thistle gall fly, *Urophora stylata*	1 site
Italian Thistle *Carduus pycnocephalus*	seed-head weevil, *Rhinocylus conicus*	limited
Klamathweed *Hypericum perforatum*	klamathweed beetle, *Chrysolina quadrigemina*	limited
Milk Thistle *Silybum marianum*	thistle head weevil, *Rhinocylus conicus*	countywide
	artichoke fly, *Terellia fuscicornis*	countywide
Puncturevine *Tribulus terrestris*	puncturevine seed weevil, *Microlarinus lareynii*	countywide
	puncturevine stem weevil, *Microlarinus lypriformis*	countywide
Purple Loosestrife *Lythrum salicaria*	black-margined loosestrife beetle, *Galerucella calmariensis*	1 site
	golden loosestrife beetle, *Galerucella pusilla*	1 site
Russian Thistle *Salsola australis*	stem mining moths, *Coleophora* spp.	limited
Water Hyacinth *Eichhornia crassipes*	chevroned water hyacinth weevil, *Neochetina bruchii*	1 site
	mottled water hyacinth weevil, *Neochetina eichhorniae*	1 site
	water hyacinth moth, *Sameodes albiguttalis*	1 site
Yellow Starthistle (yst) *Centaurea solstitialis*	yst bud weevil, *Bangasternus orientalis*	2 sites
	yst gall fly, *Urophora sirunaseva*	2 sites
	yst hairy weevil, *Eustenopus villosus*	2 sites
	false yst peacock fly, *Chaetorellia succinea*	countywide
INSECT PESTS		
Aphid & Scale Insects (numerous species)	Asiatic ladybird beetle, *Harmonia axyridis*	countywide
Cottony Cushion Scale *Icerya purchasi*	Vedalia beetle, *Rodalia cardinalis*	countywide
	parasitic fly, *Cryptochaetum iceryae*	countywide
Ash Whitefly *Siphoninus phillyreae*	ladybird beetle, *Clitostethus arcuatus*	3 sites
	Encarsia wasp, *Encarsia partenopea*	countywide
Greenhouse Whitefly *Trialeurodes vaporariorum*	ladybird beetle, *Clitostethus arcuatus*	1 site (field)
	Encarsia wasp, *Encarsia formosa*	2 sites (greenhouse)
GREENHOUSE PESTS		
Fungus Gnats, *Sciara* spp.	a nematode, *Steinernema feltiae*	2 sites
Twospotted mites *Tetranychus* spp.	predator mites, *Galendromus (=Metaseiulus) occidentalis* *Phytoseiulus* spp.	2 sites

PEST EXCLUSION REJECTIONS 2001

The following depicts the number of Exclusion rejection notices issued on shipments in violation of California quarantines. All shipments of plant material entering San Joaquin County are inspected as a function of the Agricultural Commissioner's Pest Exclusion Program.



PEST INTERCEPTED	SOURCE	SCOPE OF PROGRAM
Live Pests		
Quarantine Scales	Nurseries, Express Carrier	59 Rejections
Quarantined Snails and Slugs	Nurseries, Express Carrier	9 Rejections
Mealybugs	Nurseries, Express Carrier	14 Rejections
Leafhoppers	Nurseries, Express Carrier	43 Rejections
Other Quarantined Insects	Nurseries, Express Carrier	19 Rejections
Prohibited Fruit & Vegetables	P.O., Express Carrier, Specialty Markets	25 Rejections
Citrus Canker Hosts	Specialty Markets, P.O.	4 Rejections
Prohibited Nursery Stock	Nurseries, P.O.	45 Rejections

GENERAL SAN JOAQUIN COUNTY INFORMATION

COUNTY SEAT	STOCKTON
COUNTY POPULATION (2001)	583,700
POPULATION PER SQUARE MILE	379
INCORPORATED CITIES (7)	
ESCALON, LATHROP, LODI, MANTECA, RIPON, STOCKTON AND TRACY	
LAND AREA (SQUARE MILES)	1,400
LAND IN FARMS (ACRES - 1997)	808,838
TOTAL CROPLAND (ACRES - 1997)	559,435
IRRIGATED CROPLAND (ACRES - 1997)	519,021
NUMBER OF FARMS (1997)	3,862
AVERAGE SIZE OF FARMS (ACRES - 1997)	209
AGRICULTURAL WORK FORCE	15,700
LOWEST ELEVATION IN COUNTY (DELTA AREA)	12' BELOW SEA LEVEL
HIGHEST ELEVATION IN COUNTY (SOUTHWESTERN AREA)	3065' ABOVE SEA LEVEL
LENGTH OF COUNTY (NORTH TO SOUTH)	75 MILES
WIDTH OF COUNTY (EAST TO WEST)	65 MILES
AVERAGE JANUARY TEMPERATURE	53°
AVERAGE JULY TEMPERATURE	93°
AVERAGE ANNUAL RAINFALL	
NORTH COUNTY	16 INCHES
SOUTH COUNTY	14 INCHES
EAST COUNTY	12 INCHES
WEST COUNTY	9 INCHES

AGRICULTURAL COMMISSIONER'S OFFICE
SAN JOAQUIN COUNTY
P.O. BOX 1809
STOCKTON, CA 95201