



**Agricultural Report**

**SAN  
JOAQUIN  
COUNTY**

**1996**

## SAN JOAQUIN COUNTY'S ALMOND CROP

The cultivated almond apparently originated from one or more of the many wild species that evolved in the deserts and lower mountain slopes of central and southwest Asia. Almonds were brought to the United States with the early colonists, but did not produce well in the eastern climate. They were brought to California with the westward migration, where they thrived in the Central Valley's Mediterranean climate. The first planting in San Joaquin County was in 1890 and centered around the Ripon Area. San Joaquin County has 40,507 acres in production, and most of these acres are near or around Escalon, Ripon, Manteca and West Tracy.

Almonds require sandy loam soils, considerable heat during the growing season, and frost free conditions during and after bloom. This is why San Joaquin County is well suited for growing almonds.

Almonds begin to bloom in February. Since fruit size is not especially important, no thinning is done and it is important that all blossoms be pollinated for maximum production. Pollination is accomplished by honeybees. Rain can interfere with pollination and can also contribute to disease.

Almonds require cross-pollination and orchards are planted with at least two or three different varieties. The most commonly grown varieties in San Joaquin County are: 'Nonpareil', (which is the most commonly grown in the state), 'Carmel', 'Texas/Mission', 'Merced', 'Price Cluster', and 'Butte'.

The Almond industry has grown tremendously in the last fifty years. It has gone from surplus production, few exports and some imports in the 1940s and early 1950s, to the current situation of no surpluses, no imports, and the number three agricultural crop exported in California.

### A SPECIAL THANK YOU

The San Joaquin County Agricultural Commissioner's Office expresses its deep appreciation to the San Joaquin Farm Bureau Federation, the Sierra-Bay Farm Credit Association and Blue Diamond for their generous contributions to the 1996 Crop Report. Without their support the publication of this report would not have been possible.

SAN JOAQUIN COUNTY  
AGRICULTURAL COMMISSIONER'S OFFICE

# 1996 ANNUAL CROP REPORT

Scott Hudson  
Agricultural Commissioner

Compiled by  
Diane Curry

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All staff are based in Stockton unless otherwise noted.



**SCOTT HUDSON**  
AGRICULTURAL COMMISSIONER  
SEALER OF WEIGHTS & MEASURES  
ANIMAL CONTROL

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

**SAN JOAQUIN COUNTY**  
OFFICE OF THE  
**AGRICULTURAL COMMISSIONER**

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.

TO ANN VENEMAN, 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 Agricultural Code, I am pleased to present the sixty-third Annual Report of Agricultural Production in the County of San Joaquin. 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 1996 in San Joaquin County is estimated to be **\$1,351,530,000**. This represents a 10.5% increase from the estimated \$1,222,600,000 for 1995, and is an all time high for San Joaquin County. Significant increases occurred in Nursery Products and Livestock and Poultry Products; while Seed Crops, Vegetable Crops, Field Crops, and Fruit and Nut Crops enjoyed moderate increases. Both Apiary Products and Livestock and Poultry experienced small declines in overall gross values.

Several Nursery Products did well in 1996. Flowering Potted Plants; Woody Ornamentals; and Bulbs, Rhizomes, Turf all showed substantial growth. The \$18,986,000 increase in Woody Ornamentals places that commodity in the 1996 Top Ten List for San Joaquin County. This is the first time a commodity from the Nursery Products category has ranked in the top ten.

Livestock and Poultry Products boasted the largest increase in value. Higher milk prices resulted in a significant jump in the gross value of this category. The value of milk rose \$44,009,000, breaking the \$200,000,000 gross value mark.

Grapes continue to be San Joaquin County's number one crop. For the second year in a row, higher prices and larger acreages resulted in grape's record breaking value. Increased production resulted in a \$13,564,000 gain in Almonds and a \$3,303,000 gain in Cherries. However, not all Fruit and Nut Crops fared well. Lack of chilling hours and problems with Blight caused lower yields in Walnuts, decreasing their value by \$5,615,000. Because of depressed prices, Apples also showed a decline of \$12,053,000.

Other crops showing a substantial increase in gross value were Asparagus, Potatoes, Wheat, and Corn for Grain. Those crops showing significant decreasing values were Shipping Tomatoes, Corn Silage, Cattle and Calves, and Light Red Kidney Beans for Seed.

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	PRODUCTION			GROSS VALUE			
	YEAR	HARVESTED ACREAGE	PER ACRE	TOTAL UNIT	PER UNIT	SUBTOTAL	TOTAL
BARLEY	1996	2,135	1.73	3,700 TON	\$168.00		\$621,000
	1995	2,660	2.27	6,000 TON	\$116.00		\$703,000
BEANS, DRY, ALL	1996	22,800	1.08	24,600 TON	\$820.00		\$20,181,000
	1995	24,100	1.15	27,600 TON	\$698.00		\$19,269,000
BLACKEYE	1996	3,430	1.27	4,400 TON	\$639.00	2,785,000	
	1995	4,190	1.15	4,800 TON	\$770.00	3,706,000	
KIDNEY	1996	8,080	1.11	9,000 TON	\$790.00	7,082,000	
	1995	11,860	1.08	12,800 TON	\$638.00	8,165,000	
LIMA	1996	11,330	0.99	11,200 TON	\$920.00	10,314,000	
	1995	8,080	1.24	10,000 TON	\$738.00	7,398,000	
CORN, GRAIN	1996	57,270	4.48	256,500 TON	\$119.00		\$30,642,000
	1995	40,430	4.97	200,900 TON	\$121.00		\$24,217,000
HAY, ALL	1996	76,500	6.56	502,000 TON	\$113.00		\$56,758,000
	1995	76,700	5.88	451,100 TON	\$109.00		\$53,418,000
ALFALFA	1996	64,890	6.81	441,900 TON	\$116.00	51,049,000	
	1995	59,830	7.25	397,200 TON	\$114.00	49,372,000	
OTHER	1996	11,560	5.20	60,100 TON	\$95.00	5,709,000	
	1995	16,860	3.20	53,900 TON	\$75.00	4,046,000	
OATS, GRAIN	1996	950	3.53	3,400 TON	\$68.00		\$228,000
	1995	3,350	3.31	11,100 TON	\$78.00		\$860,000
PASTURE & RANGE	1996	168,000		ACRE	\$30.00		\$5,057,000
	1995	167,000		ACRE	\$30.00		\$5,708,000
IRRIGATED	1996	26,900		ACRE	\$125.00	3,365,000	
	1995	26,400		ACRE	\$120.00	3,170,000	
OTHER	1996	140,970		ACRE	\$12.00	1,692,000	
	1995	141,000		ACRE	\$18.00	2,538,000	
RICE	1996	5,500	3.88	21,300 TON	\$236.00		\$5,039,000
	1995	5,170	3.82	19,700 TON	\$214.00		\$4,223,000
SAFFLOWER	1996	19,260	1.41	27,200 TON	\$364.00		\$9,876,000
	1995	15,070	1.40	21,100 TON	\$300.00		\$6,327,000
SILAGE, CORN	1996	23,120	27.55	636,800 TON	\$21.00		\$13,182,000
	1995	41,350	27.73	1,146,600 TON	\$20.00		\$22,771,000
SILAGE, OTHER	1996	15,460	11.66	180,300 TON	\$20.00		\$3,229,000
INCLUDES GREEN CHOP	1995	27,100	11.61	314,700 TON	\$20.00		\$6,549,000

## FIELD CROPS

CROP	PRODUCTION			GROSS VALUE			
	YEAR	HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
SUGAR BEETS	1996	14,210	25.70	365,200	TON	\$47.00	\$17,040,000
	1995	15,180	27.34	415,000	TON	\$35.00	\$14,366,000
SUNFLOWERS	1996	2,236	0.98	2,200	TON	\$402.00	\$881,000
	1995	2,440	1.06	2,600	TON	\$400.00	\$1,032,000
WHEAT	1996	58,140	2.39	139,000	TON	\$146.00	\$20,298,000
	1995	41,270	2.21	91,200	TON	\$127.00	\$11,622,000
MISCELLANEOUS	1996	500					\$291,000
	1995	390					\$264,000
TOTAL	1996	466,000					\$183,323,000
	1995	463,000					\$171,329,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

## SEED CROPS

CROP	PRODUCTION			GROSS VALUE			
	YEAR	HARVESTED ACREAGE	PER ACRE	TOTAL	PER UNIT	UNIT	TOTAL
BEANS, CERTIFIED SEED	1996	360	12.5	4,500	CWT	\$50.00	\$225,000
	DARK RED KIDNEY	1995	330	19.1	6,300	CWT	\$33.80
LIGHT RED KIDNEY	1996	730	14.0	9,900	CWT	\$42.30	\$419,000
	1995	1,510	24.0	35,500	CWT	\$36.00	\$1,278,000
BEANS, OTHER	1996	280	18.0	4,940	CWT	\$40.30	\$199,000
	1995	210	23.0	4,920	CWT	\$32.90	\$162,000
GRAIN SEED	1996	498	6,000	2,988,000	LBS	\$0.16	\$478,000
	1995	118	4,424	522,000	LBS	\$0.11	\$57,000
POTATOES, SEED	1996	125	263.00	32,900	CWT	\$12.50	\$411,000
	1995	187	279.00	52,200	CWT	\$12.00	\$627,000
VEGETABLE SEED	1996	760					\$2,625,000
	1995	570					\$1,456,000
MISCELLANEOUS SEED	1996	360					\$247,000
CLOVER, SUDAN & ETC.	1995	420					\$256,000
TOTAL	1996	3,110					\$4,604,000
	1995	3,350					\$4,049,000

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## FRUIT AND NUT CROPS

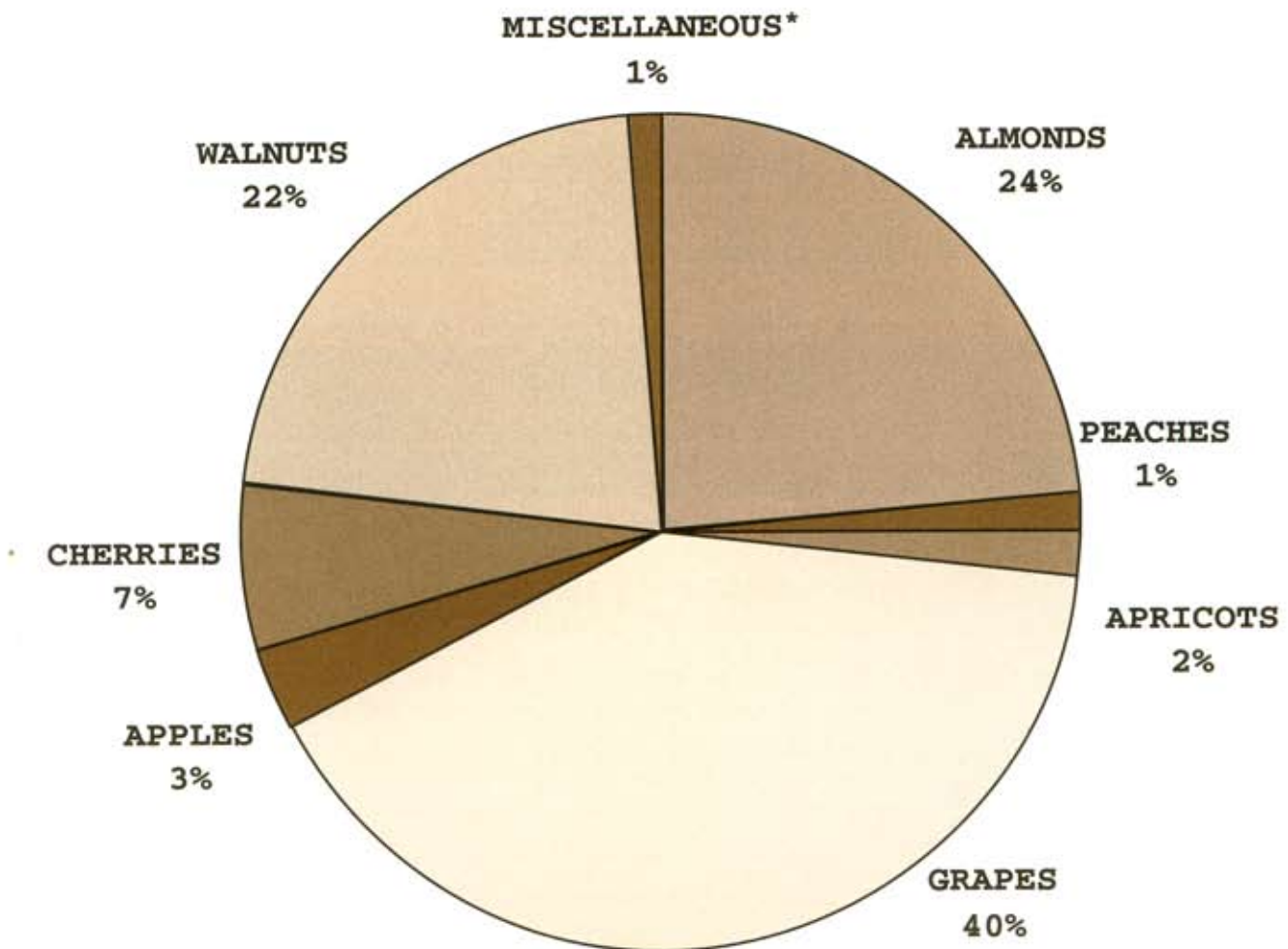
CROP	PRODUCTION			GROSS VALUE				
	YEAR	HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	SUBTOTAL	TOTAL
ALMOND, MEATS	1996	40,507	0.59	23,899	TON	\$4,161.00		\$99,444,000
	1995	40,206	0.48	19,299	TON	\$4,450.00		\$85,880,000
ALMOND, HULLS	1996			59,748	TON	\$75.00		\$4,481,000
	1995			48,247	TON	\$75.00		\$3,619,000
APPLES	1996	4,936	13.70	67,600	TON	\$761.00		\$51,432,000
	1995	4,654	14.20	66,200	TON	\$959.00		\$63,485,000
APRICOTS	1996	3,382	5.84	19,800	TON	\$309.00		\$6,118,000
	1995	3,330	4.11	13,700	TON	\$259.00		\$3,548,000
CHERRIES, ALL	1996	11,465	1.61	18,500	TON	\$3,150.00		\$58,261,000
	1995	11,100	1.14	12,700	TON	\$4,330.00		\$54,958,000
FRESH	1996			13,321	TON	\$4,166.00	\$55,497,000	
	1995			8,731	TON	\$6,056.00	\$52,875,000	
PROCESSING	1996			5,155	TON	\$536.05	\$2,764,000	
	1995			4,006	TON	\$520.00	\$2,083,000	
GRAPES, ALL	1996	69,000	6.74	465,000	TON	\$522.00		\$242,743,000
	1995	65,600	8.09	531,000	TON	\$426.00		\$226,133,000
TABLE, CRUSHED	1996	5,234	6.48	33,900	TON	\$173.00	\$5,862,000	
	1995	5,900	8.32	49,100	TON	\$160.00	\$7,877,000	
WINE, ALL	1996	63,810	6.75	431,000	TON	\$549.61	\$236,881,000	
	1995	59,700	8.06	481,400	TON	\$453.38	\$218,256,000	
FRESH	1996			6,660	TON	\$867.00	\$5,771,000	
	1995			8,550	TON	\$572.00	\$4,892,000	
CRUSHED	1996			424,300	TON	\$545.00	\$231,110,000	
	1995			472,800	TON	\$451.00	\$213,364,000	
PEACHES, ALL	1996	2,140	16.64	35,600	TON	\$224.00		\$7,971,000
	1995	2,520	17.22	43,400	TON	\$200.00		\$8,700,000
CLINGSTONE	1996	1,848	15.80	29,200	TON	\$232.00	\$6,774,000	
	1995	2,153	17.30	37,200	TON	\$203.00	\$7,552,000	
FREESTONE	1996	291	22.00	6,400	TON	\$187.00	\$1,197,000	
	1995	365	16.90	6,170	TON	\$186.00	\$1,148,000	
PEARS	1996	699	15.00	10,490	TON	\$220.00		\$2,308,000
	1995	630	10.00	6,300	TON	\$220.00		\$1,386,000
WALNUTS, ENGLISH	1996	37,702	1.20	45,240	TON	\$1,475.00		\$66,729,000
	1995	36,761	1.50	55,140	TON	\$1,312.00		\$72,344,000



## FRUIT AND NUT CROPS

CROP	PRODUCTION		GROSS VALUE
	YEAR	HARVESTED ACREAGE	TOTAL
MISCELLANEOUS	1996	977	\$4,843,000
	1995	849	\$5,595,000
TOTAL	1996	170,808	\$544,330,000
	1995	165,650	\$525,648,000

### SAN JOAQUIN COUNTY'S FRUIT AND NUT ACREAGE



\*INCLUDES PEARS

## VEGETABLE CROPS

CROP	PRODUCTION			GROSS VALUE				
	YEAR	HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	SUBTOTAL	TOTAL
ASPARAGUS	1996	23,630	1.38	32,700	TON	\$2,304.00		\$75,288,000
	1995	20,840	1.18	24,600	TON	\$2,441.00		\$60,039,000
CAULIFLOWER	1996	597	8.00	4,800	TON	\$400.00		\$1,910,000
	1995	600	5.00	3,000	TON	\$510.00		\$1,523,000
CORN, SWEET	1996	2,110	5.38	11,400	TON	\$229.00		\$2,603,000
	1995	2,040	7.33	14,900	TON	\$381.00		\$5,694,000
CUCUMBERS	1996	5,640	9.10	51,300	TON	\$243.00		\$12,464,000
	1995	3,400	11.76	40,000	TON	\$239.00		\$9,555,000
MELONS, ALL	1996	2,970	17.20	51,200	TON	\$167.00		\$8,566,000
	1995	2,850	15.90	45,200	TON	\$192.00		\$8,671,000
WATERMELON	1996	2,380	18.35	43,700	TON	\$173.00	\$7,554,000	
	1995	2,050	18.00	37,000	TON	\$175.00	\$6,470,000	
OTHER	1996	590	12.71	7,500	TON	\$136.00	\$1,012,000	
	1995	800	10.20	8,200	TON	\$269.00	\$2,201,000	
ONIONS, DRY	1996	3,640	22.00	80,300	TON	\$201.00		\$16,151,000
	1995	2,980	23.00	67,900	TON	\$220.00		\$14,930,000
PEPPERS	1996	4,120	12.06	49,700	TON	\$295.00		\$14,651,000
	1995	4,200	12.00	50,400	TON	\$252.00		\$12,708,000
POTATOES	1996	4,390	15.65	68,700	TON	\$132.00		\$9,065,000
	1995	2,480	12.48	30,900	TON	\$140.00		\$4,318,000
PUMPKINS	1996	3,280	14.31	46,900	TON	\$152.00		\$7,118,000
	1995	2,570	16.15	41,500	TON	\$134.00		\$5,570,000
TOMATOES, ALL	1996	33,120	30.12	997,700	TON	\$80.00		\$79,838,000
	1995	32,570	31.21	1,016,400	TON	\$80.00		\$84,692,000
SHIPPING	1996	7,120	13.05	92,900	TON	\$345.00	\$32,110,000	
	1995	9,070	12.33	111,900	TON	\$341.00	\$38,109,000	
PROCESSING	1996	26,000	34.80	904,800	TON	\$53.00	\$47,728,000	
	1995	23,500	38.49	904,500	TON	\$52.00	\$46,583,000	
MISCELLANEOUS VEGETABLES	1996	2,590						\$8,228,000
	1995	4,850*						\$7,770,000*
TOTAL	1996	86,100						\$235,882,000
	1995	83,900						\$215,470,000

\* REVISED

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

## NURSERY PRODUCTS

ITEM	YEAR	QUANTITY SOLD BY PRODUCERS		GROSS VALUE	
		UNIT	TOTAL	UNIT	TOTAL
GRAPEVINES, STRAWBERRY PLANTS, FRUIT & NUT TREES	1996	82,423,000	PLANT		\$6,073,000
	1995	68,372,000	PLANT		\$8,703,000
VEGETABLE PLANTS	1996	130,448,000	PLANT		\$4,289,000
	1995	141,071,000	PLANT		\$4,377,000
FLOWERING POTTED PLANTS	1996	3,745,000	EACH		\$13,878,000
	1995	3,595,000	EACH		\$9,266,000
FOLIAGE PLANTS	1996	4,746,000	EACH		\$9,124,000
	1995	3,868,000	EACH		\$7,606,000
BEDDING PLANTS	1996	1,126,000	PKG		\$7,015,000
	1995	875,000	PKG		\$5,079,000
WOODY ORNAMENTALS	1996	6,505,000	EACH		\$35,140,000
	1995	5,242,000	EACH		\$16,154,000
CHRISTMAS TREES	1996	2,000	EACH		\$14,000
	1995	4,470	EACH		\$90,000
BULBS, RHIZOMES, TURF, CACTUS, ETC.	1996				\$22,383,000
	1995				\$12,326,000
TOTAL	1996				\$97,916,000
	1995				\$63,601,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

## APIARY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	PER UNIT	GROSS VALUE	
					TOTAL	TOTAL
HONEY	1996	236,000	LBS	\$0.85		\$201,000
	1995	632,000	LBS	\$0.52		\$329,000
POLLINATION	1996	163,600	HIVE	\$27.40		\$4,475,000
	1995	138,600	HIVE	\$31.50		\$4,361,000
TOTAL	1996					\$4,676,000
	1995					\$4,690,000

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## LIVESTOCK AND POULTRY

ITEM	YEAR	NO. HEAD	LIVEWEIGHT	UNIT	PER UNIT	GROSS VALUE	
						TOTAL	
CATTLE & CALVES	1996	99,000	496,000	CWT	\$43.60		21,642,000
	1995	157,000	568,000	CWT	\$43.70		24,827,000
SHEEP & LAMBS	1996	26,200	25,800	CWT	\$85.60		2,208,000
	1995	25,500	25,200	CWT	\$73.80		1,861,000
HOGS & PIGS	1996	3,250	4,620	CWT	\$55.00		254,000
	1995	6,440	6,840	CWT	\$44.30		303,000
BROILERS, FRYERS, DUCKS & RABBITS	1996	875,000	4,050,000	LBS	\$0.86		3,498,000
	1995	997,000	4,802,000	LBS	\$0.51		2,434,000
OTHER CHICKENS & SPENT HENS	1996	1,430,000		EACH	\$0.01		10,000
	1995	1,979,000		EACH	\$0.02		38,000
TURKEYS	1996	280,000	4,270,000	LBS	\$0.46		1,964,000
	1995	248,000	3,785,000	LBS	\$0.46		1,741,000
OTHER POULTRY & AQUACULTURE	1996						260,000
	1995						285,000
TOTAL	1996						29,836,000
	1995						31,489,000

## LIVESTOCK AND POULTRY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	PER UNIT	GROSS VALUE	
					SUBTOTAL	TOTAL
MILK, ALL	1996	17,119,000	CWT	\$13.70		234,813,000
	1995	16,300,000	CWT	\$11.70		190,804,000
MARKET	1996	16,638,000	CWT	\$13.70	\$227,926,000	
	1995	16,098,000	CWT	\$11.70	\$188,499,000	
MANUFACTURING	1996	481,000	CWT	\$14.30	\$6,887,000	
	1995	202,000	CWT	\$11.40	\$2,305,000	
WOOL	1996	168,000	LBS	\$0.65		110,000
	1995	191,000	LBS	\$1.20		229,000
EGGS, CHICKEN	1996	22,448,000	DOZ	\$0.62		13,825,000
	1995	25,636,000	DOZ	\$0.52		13,221,000
MANURE	1996	359,000	TON	\$6.17		2,215,000
	1995	414,000	TON	\$5.00		2,070,000
TOTAL	1996					250,963,000
	1995					206,324,000

## ALMOND FACTS

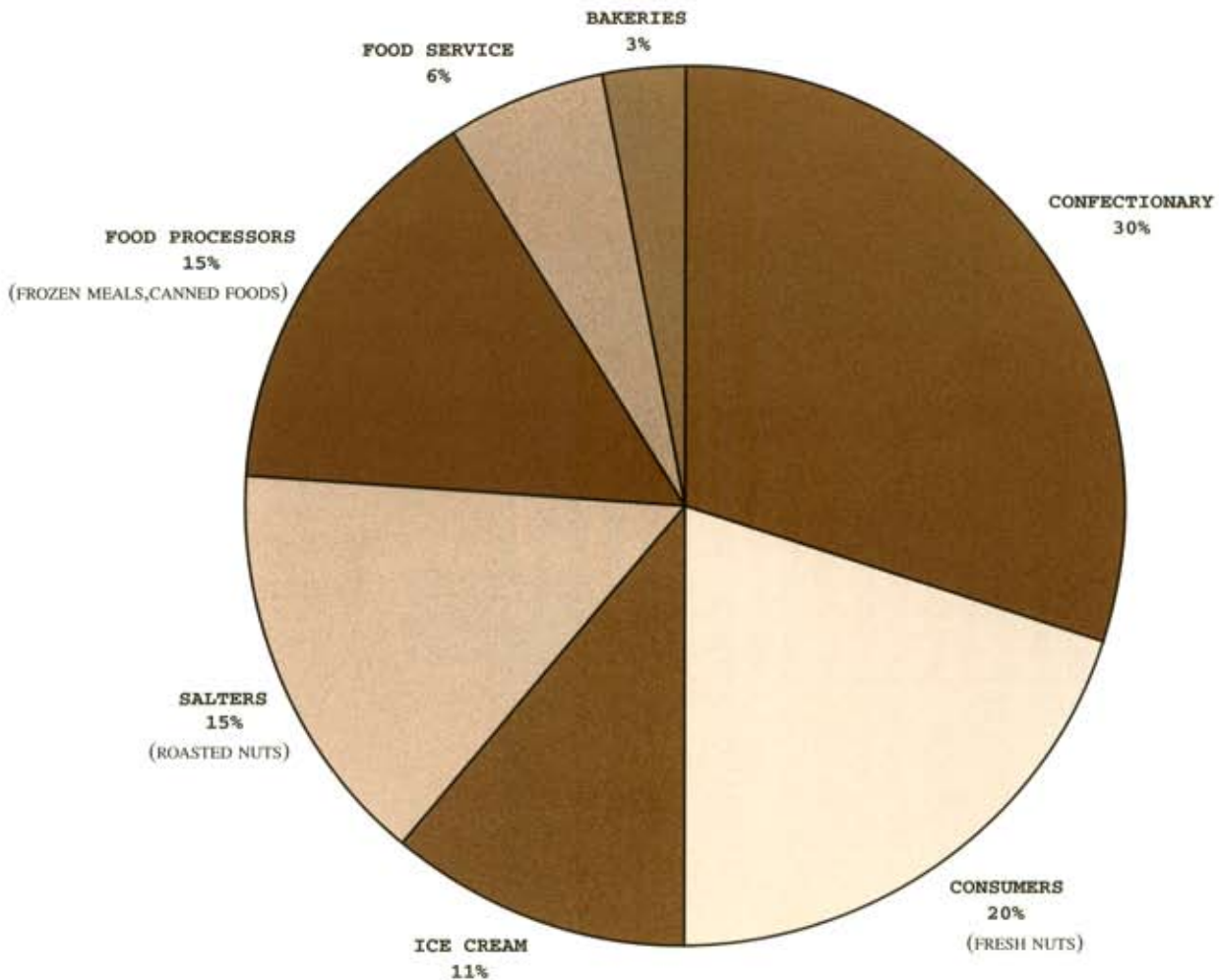
THE UNITED STATES EXPORTS MORE ALMONDS THAN IT CONSUMES.

IN 1996 UNITED STATES ALMOND EXPORTS REACHED A RECORD \$870.6 MILLION.

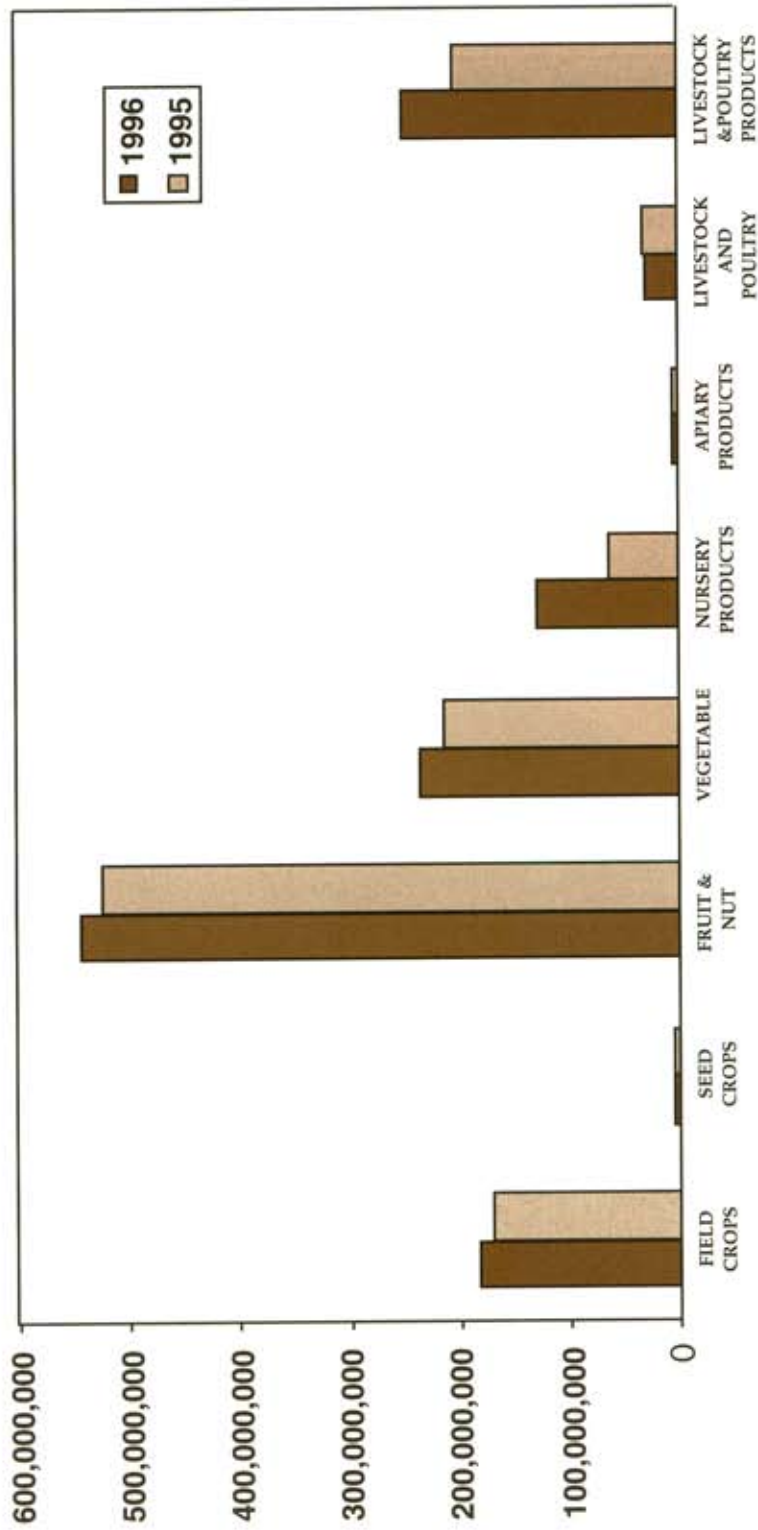
EUROPEAN UNION, JAPAN, CANADA, INDIA, MEXICO, KOREA, TAIWAN, ISRAEL, HONG KONG, AND THE UNITED ARAB EMIRATES ARE THE TOP TEN IMPORTERS.

FOOD PROCESSORS PREFER ALMONDS BECAUSE THEY HAVE LONGER SHELF LIFE THAN OTHER NUTS.

### ALMOND USAGE IN UNITED STATES



## CROP CATEGORY GROSS VALUES

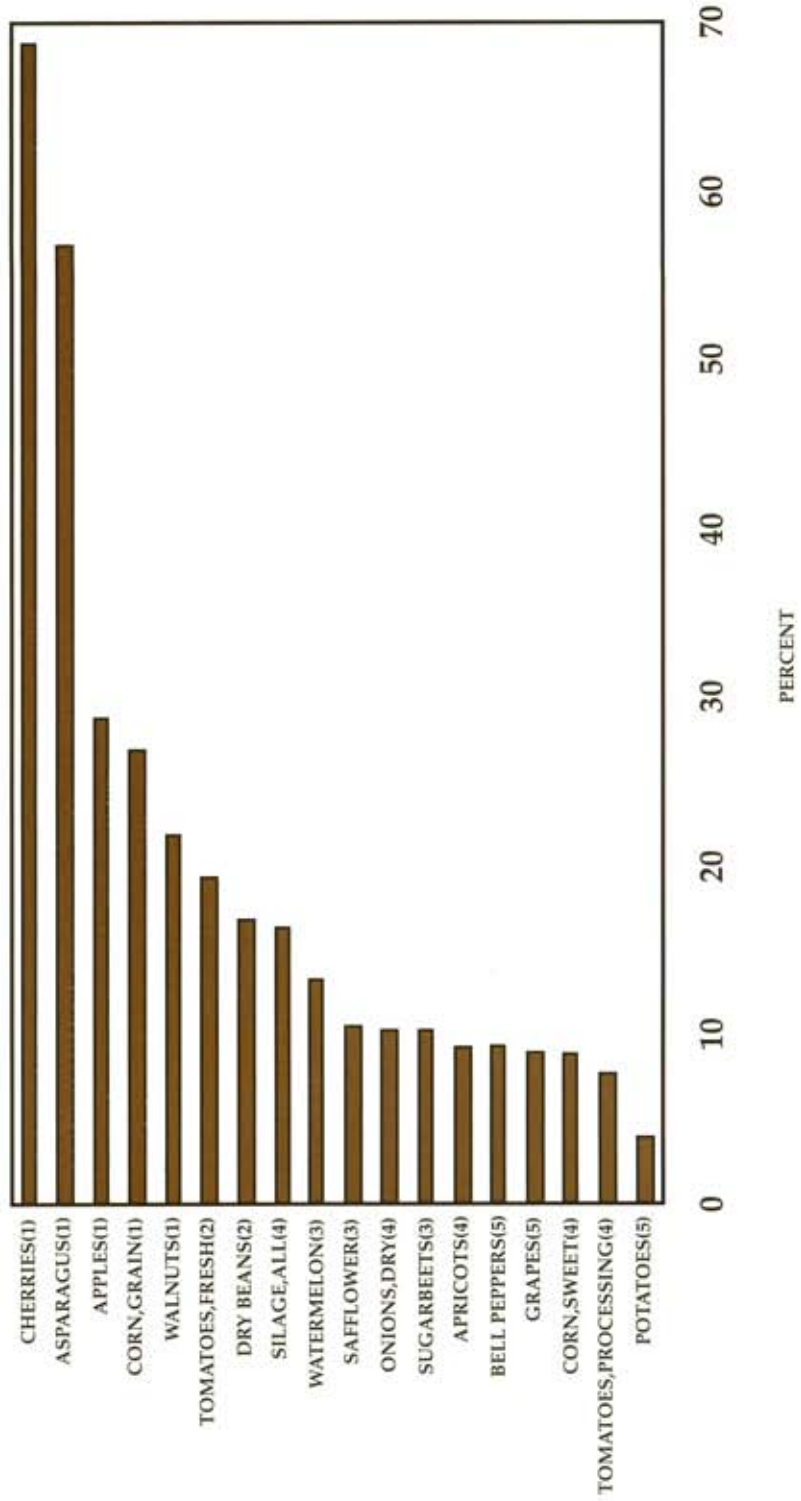


**TOTAL VALUE 1995: \$1,222,600,000**

**TOTAL VALUE 1996: \$1,351,530,000**

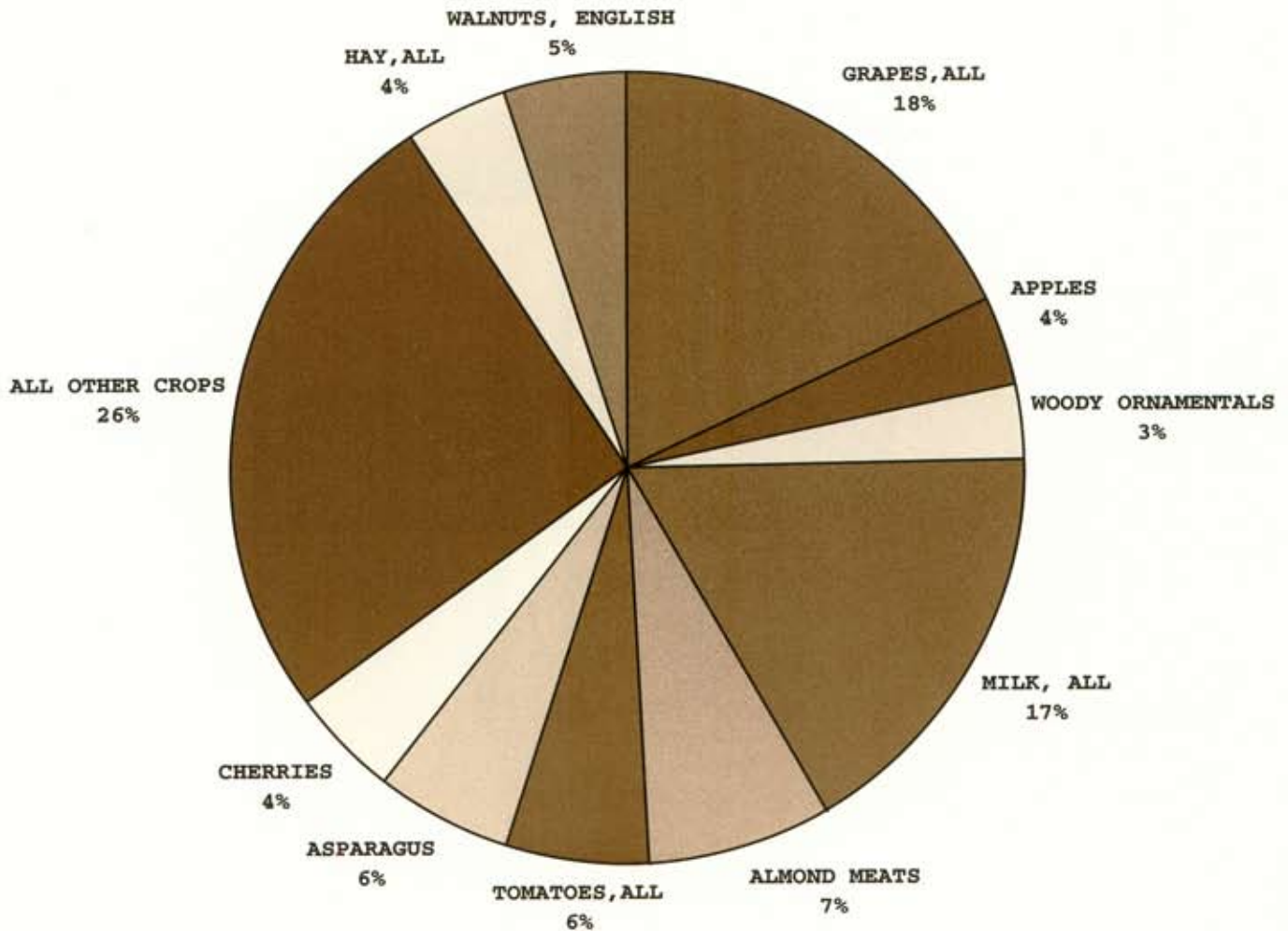
## SAN JOAQUIN COUNTY'S SHARE OF PRODUCTION

Listed below are the crops in which San Joaquin County ranked in the top five in the State based on gross value during the 1995 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

GRAPES, ALL	\$242,743,000
MILK, ALL	\$234,813,000
ALMOND MEATS	\$99,444,000
TOMATOES, ALL	\$79,838,000
ASPARAGUS	\$75,288,000
WALNUTS, ENGLISH	\$66,729,000
CHERRIES	\$58,261,000
HAY, ALL	\$56,758,000
APPLES	\$51,432,000
WOODY ORNAMENTALS	\$35,140,000
ALL OTHER CROPS	\$351,084,000





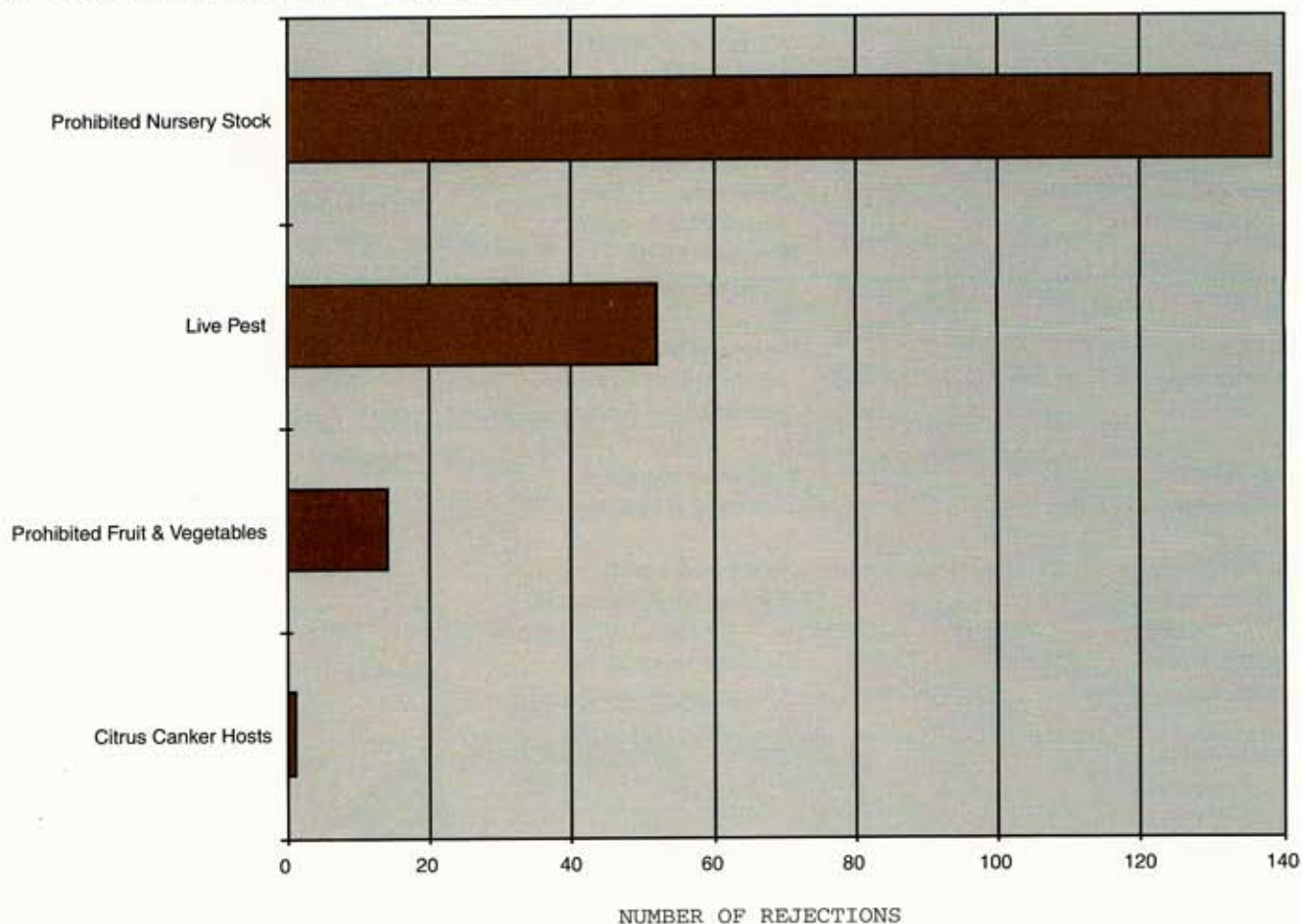
# SAN JOAQUIN COUNTY SUSTAINABLE AGRICULTURE

## 1995 BIOLOGICAL CONTROL

<u>PEST</u>	<u>CONTROL ORGANISM</u>	<u>SCOPE OF PROGRAM</u>
Yellowstar Thistle <i>Centaurea solstitialis</i>	Bud weevil <i>Bangasternus orientalis</i>	5 sites
	Seed-head fly <i>Urophora sirunaseva</i>	2 sites
	Hairy weevil <i>Eustenopus villosus</i>	2 sites
Water Hyacinth <i>Eichornia crassipes</i>	Hyacinth weevils <i>Neochetina eichorniae</i> <i>Neochetina bruchii</i>	1 site
	Hyacinth Moth <i>Sameodes albigitallis</i>	
Puncturevine <i>Tribulus terrestris</i>	Puncturevine weevil <i>Microlarinus lareynii</i> <i>Microlarinus lyperformis</i>	countywide
Italian Thistle <i>Carduus pycnocephalus</i>	Seed-head weevil <i>Rhinocylus conicus</i>	limited
Milk Thistle <i>Silybum marianum</i>	Seed-head weevil <i>Rhinocylus conicus</i>	countywide
Klamath Weed <i>Hypericum perforatum</i>	Klamath weed beetle <i>Chrysolina quadrigemina</i>	limited
Russian Thistle <i>Salsola australis</i>	Stem mining moths <i>Coleophora spp.</i>	limited
Ash Whitefly <i>Siphoninus phillyreae</i>	Encarsia Wasp <i>Encarsia partenopea</i>	countywide
	Ladybird beetle <i>Clitostethus arcuatus</i>	3 sites
Greenhouse Whitefly <i>Trialeurodes vaporariorum</i>	Ladybird beetle <i>Clitostethus arcuatus</i>	1 site (field)
	Wasp <i>Encarsia formosa</i>	2 sites (greenhouse)
Cottonycushion scale <i>Icerya purchasi</i>	Vedalia beetle <i>Rodalia cardinalis</i>	countywide
	Parasitic fly <i>Cryptochaetum iceryae</i>	
Greenhouse Pest Fungus gnats	Nematode <i>Steinernema feltiae</i>	2 sites
Two-spot mites	Predator mite <i>Phytoseiulus sp.</i> <i>Metaseiulus occidentalis</i>	2 sites

## PEST EXCLUSION REJECTIONS 1996

The following depicts the number of Exclusion rejections 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.



<u>PEST INTERCEPTED</u>	<u>SOURCE</u>	<u>SCOPE OF PROGRAM</u>
Live Pests		
Burrowing Nematode	Nurseries	3 Rejections/Destroyed
Quarantined Scales	Nurseries, P.O., UPS	15 Rejections/Destroyed
Quarantined Snails, Slugs	Nurseries, P.O., UPS	21 Rejections/Destroyed
Other Quarantined Insects	Nurseries, P.O., UPS	11 Rejections/Destroyed
Noxious Weeds	P.O., Ethnic Mkt.	2 Rejections/Destroyed
Prohibited Fruit & Vegetables	P.O., UPS, Ethnic Mkt.	14 Rejections/Destroyed
Citrus Canker Hosts	Ethnic Markets, P.O.	1 Rejection/Destroyed
Prohibited Nursery Stock	Nurseries, P.O., UPS	138 Rejections/Destroyed

## GENERAL SAN JOAQUIN COUNTY INFORMATION

COUNTY SEAT	STOCKTON
COUNTY POPULATION (1995)	530,700
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 - 1992)	783,715
TOTAL CROPLAND (ACRES - 1992)	555,819
IRRIGATED CROPLAND (ACRES - 1992)	467,987
NUMBER OF FARMS (1992)	4,097
AVERAGE SIZE OF FARMS ( ACRES - 1992)	191
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

