

# Agricultural Report

## SAN JOAQUIN COUNTY



1994

This year's Agricultural Report features the cherry industry. More cherries are grown in San Joaquin County than any other county in California. The County's cherry production amounts to 80% of the State's total production. Cherry trees do well in San Joaquin County's deep sandy loam soils, the relatively dry conditions that are prevalent during the harvest and growing seasons, and the moderating coastal influence on the County's hot summer temperatures.

Cherry trees were first brought to California by the Spanish missionaries for their gardens. Commercial cherry production began in San Joaquin County during the late 1800s along the Calaveras river east of Stockton. By World War I, commercial cherry production in the County had become extensive. The cherry industry continued to thrive until threatened by cherry die-back (buckskin) disease during the 1970s and early 1980s. Through a cooperative effort among San Joaquin County's cherry industry, the County U.C. Cooperative Extension Office, the County Agricultural Commissioner's Office, and the University of California, practices were developed to control this disease. The result has been a healthy rebound of the San Joaquin County's cherry industry.

In fact, the cherry industry has rebounded so well that 1994 was a record setting year. The value of the cherry crop broke all previous records with a value of \$76,915,000.00. Production was also the one of the highest ever with 39,800 tons being produced. The record setting year was largely due to increased cherry planting, above normal yields, and good prices on the export market.

Recently, cherry exports have become the driving force in the County's cherry industry, with Japan leading the list. Approximately 47% of the crop was exported in 1994 and over 70% of this amount was exported to Japan. Japan first opened its market to California cherries in 1987. Since then, this lucrative market has been a major factor in the fast-paced growth of San Joaquin County's cherry industry. As a result of recent legislation in Congress and expanding export markets, cherry exports are expected to continue at a high level into the future. This forecast bodes well for the health and vitality of San Joaquin County's cherry industry.

#### A SPECIAL THANK YOU

The San Joaquin County Agricultural Commissioner's Office expresses its deep appreciation to the San Joaquin Farm Bureau Federation and the Sierra-Bay Production Credit Association for their generous contributions to the 1994 Crop Report. Without their support the publication of this report would not have been possible.

SAN JOAQUIN COUNTY  
AGRICULTURAL COMMISSIONER'S OFFICE

# 1994 ANNUAL CROP REPORT

E. B. Eby  
Agricultural Commissioner

Compiled by  
Diane C. Curry

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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 first 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 growers.

The gross value of agricultural production for 1994 in San Joaquin County is estimated to be **\$1,121,395,000**. This represents a 6.5% increase from the estimated \$1,053,364,000 for 1993, and an all time high for San Joaquin County. Increases occurred in Field Crops (+5.5%), Fruit and Nut Crops (+11%), Apiary Products (+45.4%), Livestock & Poultry Products (+5.6%), Vegetable Crops (+2.5%), and in Nursery Products (+9.0%). Decreases occurred in Seed Crops (-19.4%), and Livestock & Poultry (-7.6%).

The largest increase in value was in Fruit and Nut Crops, which were up \$42,918,000 from the previous year. **Cherries in 1994 had a yield of 4.1 tons per acre and a significant increase in bearing acreage producing an all time record crop of 39,800 tons. This excellent production and a very strong export market increased the value of the Cherry crop by \$25,823,000 to a record \$76,915,000. Forty seven percent of the San Joaquin County Cherry crop was exported in 1994. Grapes were up in yield, price, and acreage in 1994, and their value increased \$ 24,242,000. Apples increased 74% to \$37,504,000. Significant increases in acreage and yield elevated Apples to the Top-ten list for the first time in 1994. These increases were somewhat off-set by significant decreases in Almond and Walnut prices which resulted in a combined decrease of \$ 30,139,000 for these crops.**

Field Crops were estimated to be up \$9,868,000 in 1994. Grain Corn and Alfalfa acreages were up considerably from the 1993 amounts. The increased value for these two crops amounted to \$9,067,000. Other significant increases occurred in Rice, and Silage Corn.

Livestock and Poultry products increased \$10,953,000. The value of milk, our number one crop, was responsible for this increase. The production and price were up in 1994, and the increase amounted to \$16,470,000. A significant decrease occurred in Chicken Egg production and price, lowering their value by \$5,551,000.

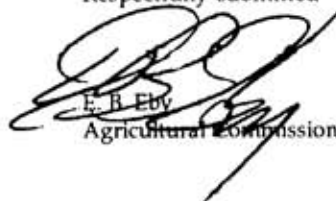
The value of Vegetable Crops increased by only 2.5% in 1994. Tomatoes showed the largest increase in value of \$17,649,000, due mainly to price and acreage increases. Melons, peppers, and pumpkins also showed slight increases in value in 1994. Decreases occurred in most other vegetable crops, due primarily to reduced acreage, and resulted in an overall increase in Vegetable Crops of only \$4,414,000.

Nursery Products and Apiary Products were up significantly in 1994 with a combined increase of \$6,250,000. The Nursery increases occurred in the vegetable plants, flowering potted plants, woody ornamental categories, but the most significant increase occurred in the bulbs, rhizomes, turf and cactus category with an increase of \$5,520,000. Apiary increases occurred in the pollination category due mainly to increases in Almond and Cherry acreage in which bees are used for pollinators.

Livestock and Poultry and Seed Crops were down for 1994 with a combined decrease of \$4,972,000. The previous years of drought continued to make water and feed very scarce in the rangeland which showed as a \$3,609,000 decrease in Cattle and Calves.

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

Respectfully submitted

  
E. B. Eby  
Agricultural Commissioner

## FIELD CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION			GROSS VALUE		
			PER ACRE	TOTAL	UNIT	PER UNIT	SUBTOTAL	TOTAL
BARLEY	1994	4,120	2.06	8,500	TON	107.00		905,000
	1993	7,070	2.23	15,800	TON	106.00		1,672,000
BEANS, DRY, ALL	1994	19,200	1.20	23,000	TON	663.00		15,254,000
	1993	24,500	1.13	27,600	TON	692.00		19,101,000
BLACKEYE	1994	3,340	1.13	3,780	TON	645.00	2,434,000	
	1993	3,380	0.96	3,230	TON	695.00	2,245,000	
KIDNEY	1994	7,300	1.08	7,900	TON	618.00	4,872,000	
	1993	15,600	1.10	17,200	TON	686.00	11,795,000	
LIMA (FIELD)	1994	7,841	1.36	10,657	TON	711.00	7,582,000	
	1993	4,726	1.35	6,380	TON	721.00	4,600,000	
GARBANZOS	1994	680	0.96	653	TON	560.00	366,000	
	1993	800	0.90	720	TON	640.00	461,000	
CORN, GRAIN	1994	67,680	5.20	352,000	TON	105.00		36,953,000
	1993	56,200	5.03	283,000	TON	117.00		33,074,000
HAY, ALL	1994	80,700	6.69	540,000	TON	111.00		59,942,000
	1993	79,500	6.34	504,000	TON	112.00		56,304,000
ALFALFA	1994	70,300	7.25	510,000	TON	113.00	57,604,000	
	1993	64,000	7.00	448,000	TON	117.00	52,416,000	
OTHER	1994	10,400	2.92	30,400	TON	77.00	2,339,000	
	1993	15,500	3.62	56,100	TON	69.00	3,888,000	
OATS, GRAIN	1994	1,240	3.25	4,000	TON	118.00		475,000
	1993	1,000	3.25	3,250	TON	120.00		390,000
PASTURE & RANGE	1994	167,000			ACRE	41.00		6,843,000
	1993	168,000			ACRE	38.90		6,530,000
IRRIGATED	1994	24,000			ACRE	160.00	3,840,000	
	1993	23,700			ACRE	150.00	3,549,000	
OTHER	1994	143,000			ACRE	21.00	3,003,000	
	1993	144,000			ACRE	21.00	2,981,000	
RICE	1994	5,190	3.98	20,700	TON	276.00		5,701,000
	1993	5,040	3.75	18,900	TON	187.00		3,534,000
SAFFLOWER	1994	17,430	1.24	21,600	TON	301.00		6,506,000
	1993	21,900	1.52	33,300	TON	311.00		10,371,000
SILAGE, CORN	1994	27,008	29.00	783,000	TON	18.30		14,302,000
	1993	25,400	26.10	663,000	TON	16.80		11,142,000
SILAGE, OTHER INCLUDES GREEN CHOP	1994	26,900	13.50	362,000	TON	16.60		5,992,000
	1993	16,700	12.20	204,000	TON	16.10		3,293,000
SUGAR BEETS	1994	20,000	25.00	500,000	TON	36.50		18,250,000
	1993	20,600	25.30	522,000	TON	36.10		18,856,000

## FIELD CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION			GROSS VALUE	
			PER ACRE	TOTAL	UNIT	PER UNIT	SUBTOTAL
SUNFLOWERS	1994	2,180	1.37	2,987	TON	281.00	839,000
	1993	970	1.50	1,460	TON	299.00	437,000
WHEAT	1994	49,900	3.01	150,000	TON	114.00	17,106,000
	1993	49,000	2.63	129,000	TON	106.00	13,664,000
MISCELLANEOUS	1994	90					116,000
	1993	230					956,000
TOTAL	1994	489,000					189,192,000
	1993	476,000					179,454,000

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## SEED CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION			GROSS VALUE	
			PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
BEANS, CERTIFIED SEED	1994	1,300	19.00	24,900	CWT	32.10	799,000
DARK RED KIDNEY	1993	690	18.70	12,900	CWT	40.70	525,000
LIGHT RED KIDNEY	1994	1,900	23.00	43,900	CWT	37.00	1,625,000
	1993	2,680	23.00	61,500	CWT	38.00	2,339,000
BEANS, OTHER	1994	340	21.50	7,250	CWT	36.10	261,600
	1993	748	21.00	15,726	CWT	38.90	611,000
GRAIN SEED	1994	445	5,900	2,626,500	LBS	0.10	263,000
	1993	250	5,000	1,250,000	LBS	0.09	113,000
POTATOES, SEED	1994	510	290.00	148,500	CWT	10.50	1,559,000
	1993	934	290.00	270,900	CWT	10.50	2,844,000
VEGETABLE SEED	1994	190					1,216,700
	1993	282					788,000
MISCELLANEOUS SEED CLOVER, SUDAN & ETC.	1994	960					320,000
	1993	320					187,000
TOTAL	1994	5,670					6,044,000
	1993	5,900					7,407,000

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## FRUIT AND NUT CROPS

CROP	YEAR	HARVESTED ACREAGE	PRODUCTION			PER UNIT	GROSS VALUE	
			PER ACRE	TOTAL	UNIT		SUBTOTAL	TOTAL
ALMOND, MEATS	1994	40,400	0.80	32,300	TON	2,500.00		80,800,000
	1993	36,100	0.67	24,200	TON	3,720.00		90,024,000
ALMOND, HULLS	1994	73,500			TON	61.00		4,484,000
	1993	60,500			TON	75.00		4,538,000
APPLES	1994	3,368	17.40	58,600	TON	640.00		37,504,000
	1993	2,940	11.00	32,300	TON	666.00		21,512,000
APRICOTS	1994	3,380	8.40	28,500	TON	338.00		9,628,000
	1993	2,960	5.57	16,500	TON	285.00		4,703,000
CHERRIES, ALL	1994	9,700	4.10	39,800	TON	1,930.00		76,915,000
	1993	8,070	2.00	16,200	TON	3,150.00		51,092,000
FRESH	1994			29,700	TON	2,410.00	71,577,000	
	1993			13,900	TON	3,540.00	49,206,000	
PROCESSING	1994			10,100	TON	592.00	5,979,000	
	1993			2,340	TON	806.00	1,886,000	
GRAPES, ALL	1994	53,100	7.31	388,000	TON	393.00		152,475,000
	1993	48,400	7.02	340,000	TON	377.00		128,233,000
TABLE, ALL	1994	7,000	6.97	48,800	TON	156.00	7,661,000	
	1993	7,070	6.48	45,800	TON	167.00	7,627,000	
FRESH	1994			250	TON	626.00	155,000	
	1993			150	TON	615.00	92,000	
CRUSHED	1994			48,600	TON	155.00	7,505,000	
	1993			45,650	TON	165.00	7,535,000	
WINE, ALL	1994	46,100	7.40	339,200	TON	426.00	144,814,000	
	1993	41,300	7.12	294,000	TON	410.00	120,606,000	
FRESH	1994			5,400	TON	417.00	2,252,000	
	1993			7,900	TON	415.00	3,279,000	
CRUSHED	1994			334,000	TON	427.00	142,562,000	
	1993			286,000	TON	410.00	117,327,000	
PEACHES, ALL	1994	3,210	18.39	59,000	TON	216.00		12,753,000
	1993	2,440	17.87	43,600	TON	247.00		10,759,000
CLINGSTONE	1994	2,900	18.80	54,500	TON	203.00	11,068,000	
	1993	2,010	18.31	36,800	TON	230.00	8,464,000	
FREESTONE	1994	306	14.51	4,440	TON	380.00	1,687,000	
	1993	428	15.86	6,790	TON	338.00	2,295,000	
PEARS	1994	705	18.00	12,690	TON	223.00		2,830,000
	1993	707	14.00	9,900	TON	211.00		2,089,000

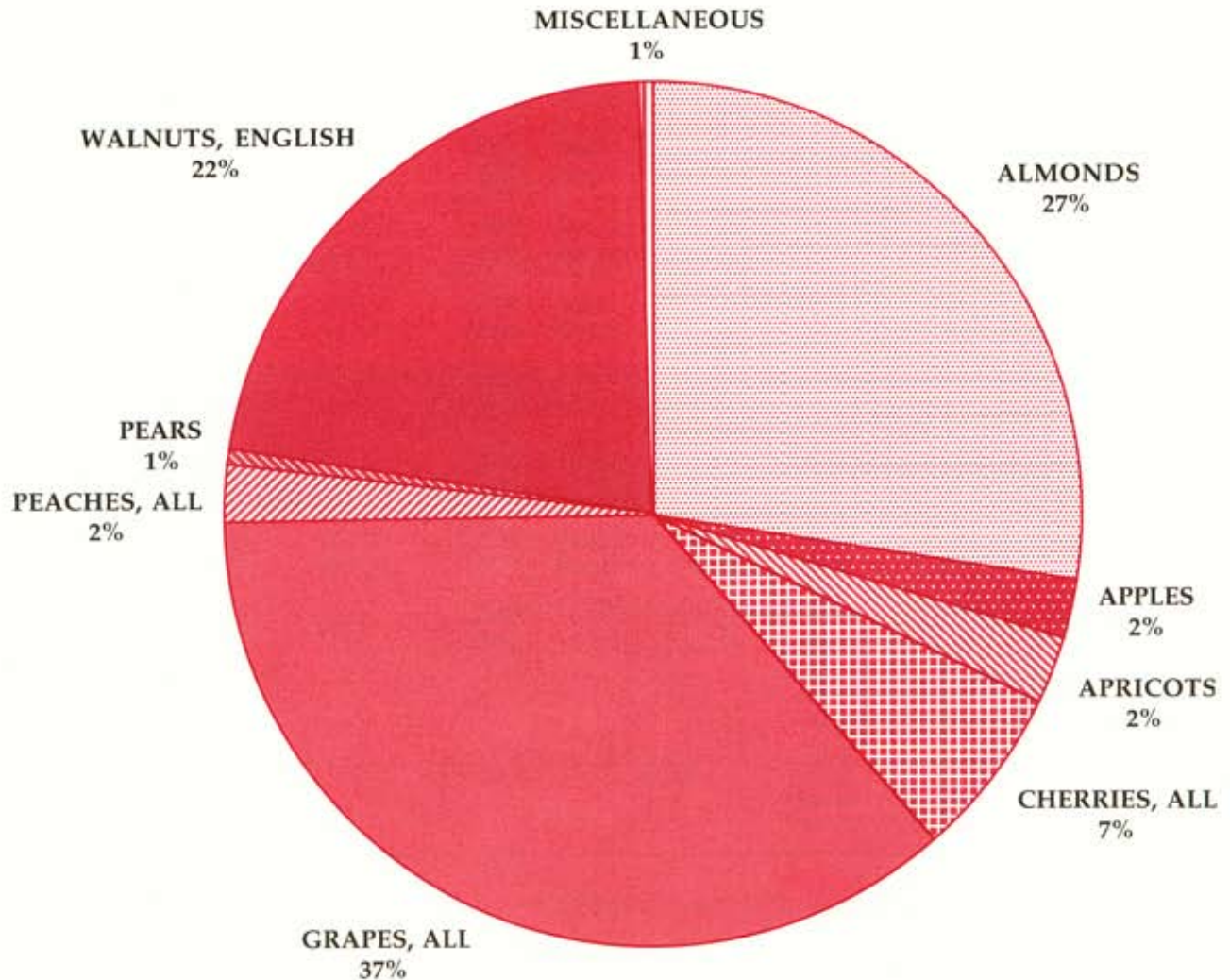


## FRUIT AND NUT CROPS

CROP	YEAR	PRODUCTION				GROSS VALUE	
		HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	SUBTOTAL
WALNUTS, ENGLISH	1994	32,200	1.42	45,700	TON	1,025.00	46,867,000
	1993	30,600	1.55	47,400	TON	1,430.00	67,782,000
MISCELLANEOUS	1994	887					3,895,000
	1993	790					4,503,000
TOTAL	1994	147,000					428,153,000
	1993	133,000					385,235,000

NUMBER MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

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



## VEGETABLE CROPS

CROP	YEAR	PRODUCTION				GROSS VALUE		
		HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	SUBTOTAL	TOTAL
ASPARAGUS	1994	17,200	1.49	25,630	TON	1,760.00		45,105,000
	1993	16,800	1.73	29,100	TON	1,720.00		50,052,000
BROCCOLI	1994	680	2.45	1,700	TON	390.00		663,000
	1993	1,140	3.51	4,000	TON	359.00		1,436,000
CAULIFLOWER	1994	610	3.51	2,100	TON	510.00		1,092,000
	1993	1,620	3.52	5,700	TON	513.00		2,924,000
CORN, SWEET	1994	2,250	6.00	13,500	TON	250.00		3,372,000
	1993	3,140	5.56	17,500	TON	287.00		5,023,000
CUCUMBERS	1994	2,320	15.00	34,800	TON	170.00		5,916,000
	1993	3,680	14.40	53,000	TON	170.00		9,010,000
MELONS, ALL	1994	3,510	12.30	43,000	TON	100.00		4,304,000
	1993	3,770	11.90	45,000	TON	93.00		4,189,000
WATERMELON	1994	1,900	14.50	27,600	TON	108.00	2,975,000	
	1993	1,770	15.00	26,600	TON	95.00	2,527,000	
OTHER	1994	1,608	9.70	15,600	TON	85.20	1,329,000	
	1993	2,000	9.20	18,400	TON	90.30	1,662,000	
ONIONS, DRY	1994	3,030	17.70	53,600	TON	131.00		7,025,000
	1993	3,550	17.90	63,500	TON	174.00		11,049,000
PEPPERS	1994	3,200	12.80	41,900	TON	330.00		13,517,000
	1993	3,580	15.50	55,500	TON	201.00		11,156,000
POTATOES	1994	2,660	15.50	39,900	TON	155.00		6,185,000
	1993	2,740	15.00	41,100	TON	155.00		6,371,000
PUMPKINS	1994	2,790	12.00	33,500	TON	118.00		3,951,000
	1993	2,530	10.90	27,600	TON	115.00		3,174,000
TOMATOES, ALL	1994	30,200	30.00	905,000	TON	96.00		87,289,000
	1993	27,900	28.10	784,000	TON	89.00		69,640,000
SHIPPING	1994	7,500	13.60	102,000	TON	474.00	48,348,000	
	1993	6,900	13.70	95,000	TON	390.00	37,050,000	
PROCESSING	1994	22,700	35.40	803,000	TON	48.50	38,941,000	
	1993	21,000	32.80	689,000	TON	47.30	32,590,000	
MISCELLANEOUS VEGETABLES	1994	3,308						5,725,000
	1993	3,410						5,692,000
TOTAL	1994	86,800						184,130,000
	1993	73,900						179,716,000

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## NURSERY PRODUCTS

ITEM	YEAR	QUANTITY SOLD BY PRODUCERS	UNIT	GROSS VALUE	
				TOTAL	
GRAPEVINES, STRAWBERRY PLANTS, FRUIT & NUT TREES	1994	79,464,000	PLANT		4,468,000
	1993	69,895,000	PLANT		4,427,000
VEGETABLE PLANTS	1994	132,908,000	PLANT		4,539,000
	1993	110,612,000	PLANT		3,883,000
FLOWERING POTTED PLANTS	1994	3,560,000	EACH		9,809,000
	1993	3,660,000	EACH		8,435,000
FOLIAGE PLANTS	1994	4,890,000	EACH		7,923,000
	1993	5,527,000	EACH		8,425,000
BEDDING PLANTS	1994	861,000	PKG		4,542,000
	1993	14,585,000	PKG		8,476,000
WOODY ORNAMENTALS	1994	4,032,000	EACH		15,009,000
	1993	3,142,000	EACH		13,296,000
CHRISTMAS TREES	1994	2,020	EACH		35,000
	1993	6,810	EACH		87,000
BULBS, RHIZOMES, TURE, CACTUS, ETC.	1994				12,213,000
	1993				6,693,000
TOTAL	1994				58,578,000
	1993				53,722,000

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## APIARY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	PER UNIT	GROSS VALUE	
					TOTAL	
HONEY	1994	620,000	LBS	0.54		335,000
	1993	615,000	LBS	0.54		332,000
POLLINATION	1994	151,400	HIVE	27.30		4,132,000
	1993	97,200	HIVE	28.20		2,741,000
TOTAL	1994					4,467,000
	1993					3,073,000

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## LIVESTOCK AND POULTRY

### GROSS VALUE

ITEM	YEAR	NO. HEAD	LIVEWEIGHT	UNIT	PER UNIT	TOTAL
CATTLE & CALVES	1994	150,000	552,000	CWT	68.60	37,867,000
	1993	155,000	570,000	CWT	70.00	39,900,000
SHEEP & LAMBS	1994	25,500	25,200	CWT	58.80	1,482,000
	1993	27,700	27,400	CWT	59.80	1,639,000
HOGS & PIGS	1994	6,440	6,840	CWT	68.90	471,000
	1993	6,200	6,580	CWT	68.90	453,000
BROILERS, FRYERS, DUCKS & RABBITS	1994	760,000	3,750,000	LBS	0.42	1,575,000
	1993	1,220,000	5,890,000	LBS	0.50	2,945,000
OTHER CHICKENS & SPENT HENS	1994	2,465,000	EACH	0.31	764,000	
	1993	2,634,000	EACH	0.31	817,000	
TURKEYS	1994	238,000	3,527,000	LBS	0.41	1,446,000
	1993	248,000	3,614,000	LBS	0.41	1,482,000
OTHER POULTRY & AQUACULTURE	1994					316,400
	1993					295,000
TOTAL	1994					43,922,000
	1993					47,531,000

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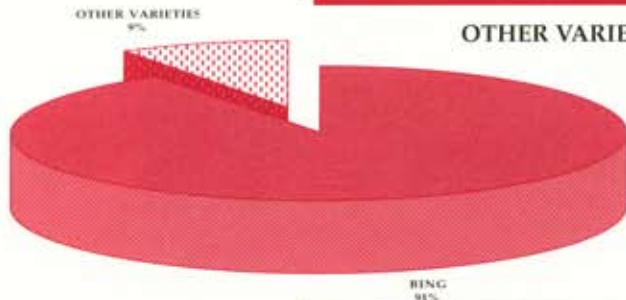
## LIVESTOCK AND POULTRY PRODUCTS

### GROSS VALUE

ITEM	YEAR	PRODUCTION	UNIT	PER UNIT	TOTAL
MILK, ALL	1994	16,088,000	CWT	11.60	185,927,000
	1993	14,870,000	CWT	11.40	169,457,000
MARKET	1994	15,879,000	CWT	11.60	183,560,000
	1993	14,665,000	CWT	11.40	167,181,000
MANUFACTURING	1994	209,000	CWT	11.30	2,362,000
	1993	205,000	CWT	11.10	2,276,000
WOOL	1994	193,000	LBS	0.73	141,000
	1993	201,000	LBS	0.51	103,000
EGGS, CHICKEN	1994	41,442,000	DOZ	0.46	19,063,000
	1993	45,581,000	DOZ	0.54	24,614,000
MANURE	1994	410,000	TON	5.00	2,050,000
	1993	405,000	TON	4.40	1,782,000
TOTAL	1994				206,909,000
	1993				197,356,000

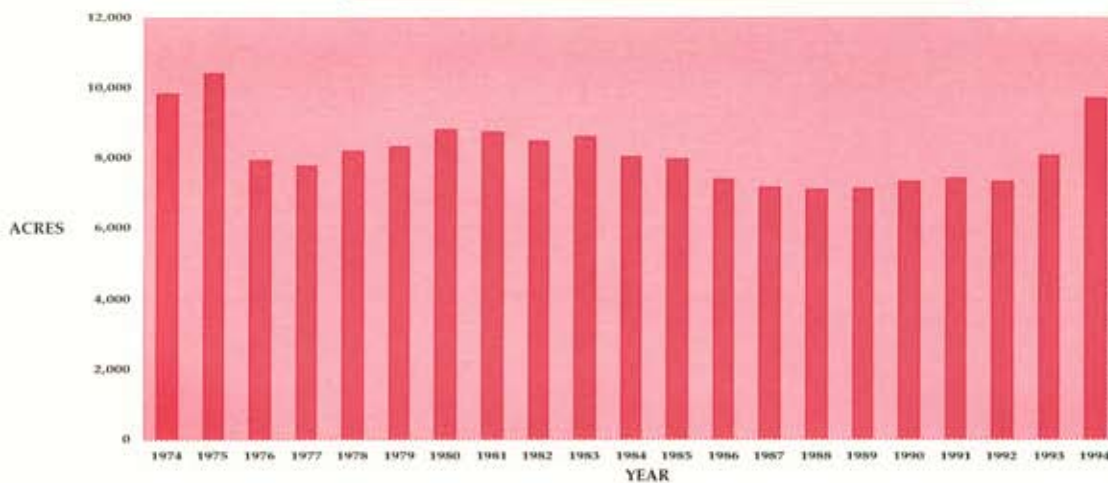
# CHERRIES 1994

## SAN JOAQUIN COUNTY CHERRY VARIETIES



OTHER VARIETIES INCLUDE: BURLAT, RAINIERS, LARIANS, GARNET, LAMBERT, VAN, CORAL CHAMPAGNE, RUBY, FIESTA, UTAH GIANT, ROYAL ANN, MONA, TARTARIAN, PRETTY BOY

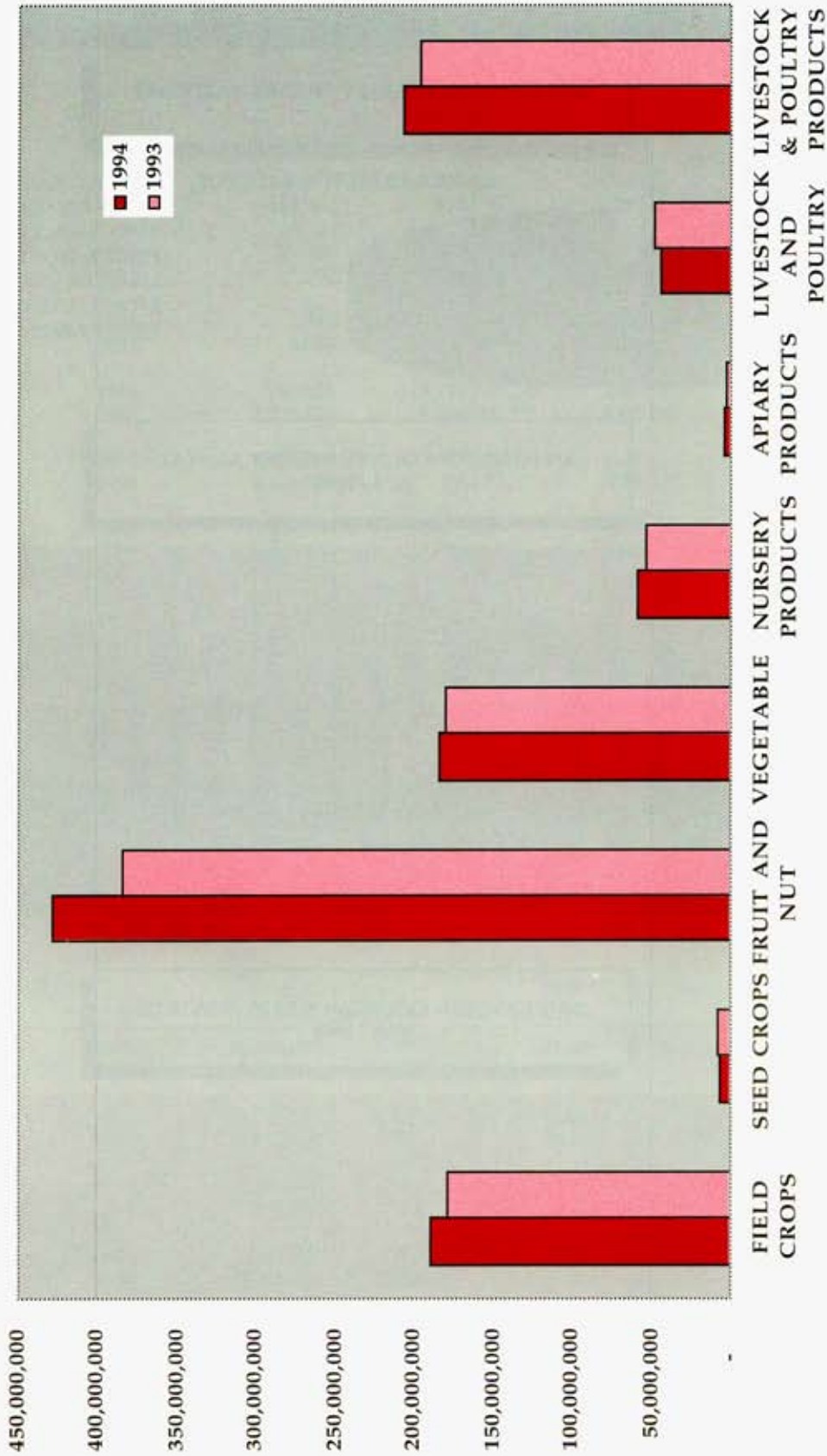
## SAN JOAQUIN COUNTY CHERRY ACREAGE 1974 - 1994



## SAN JOAQUIN COUNTY CHERRY EXPORTS 1985 - 1994



CROP CATEGORY GROSS VALUES

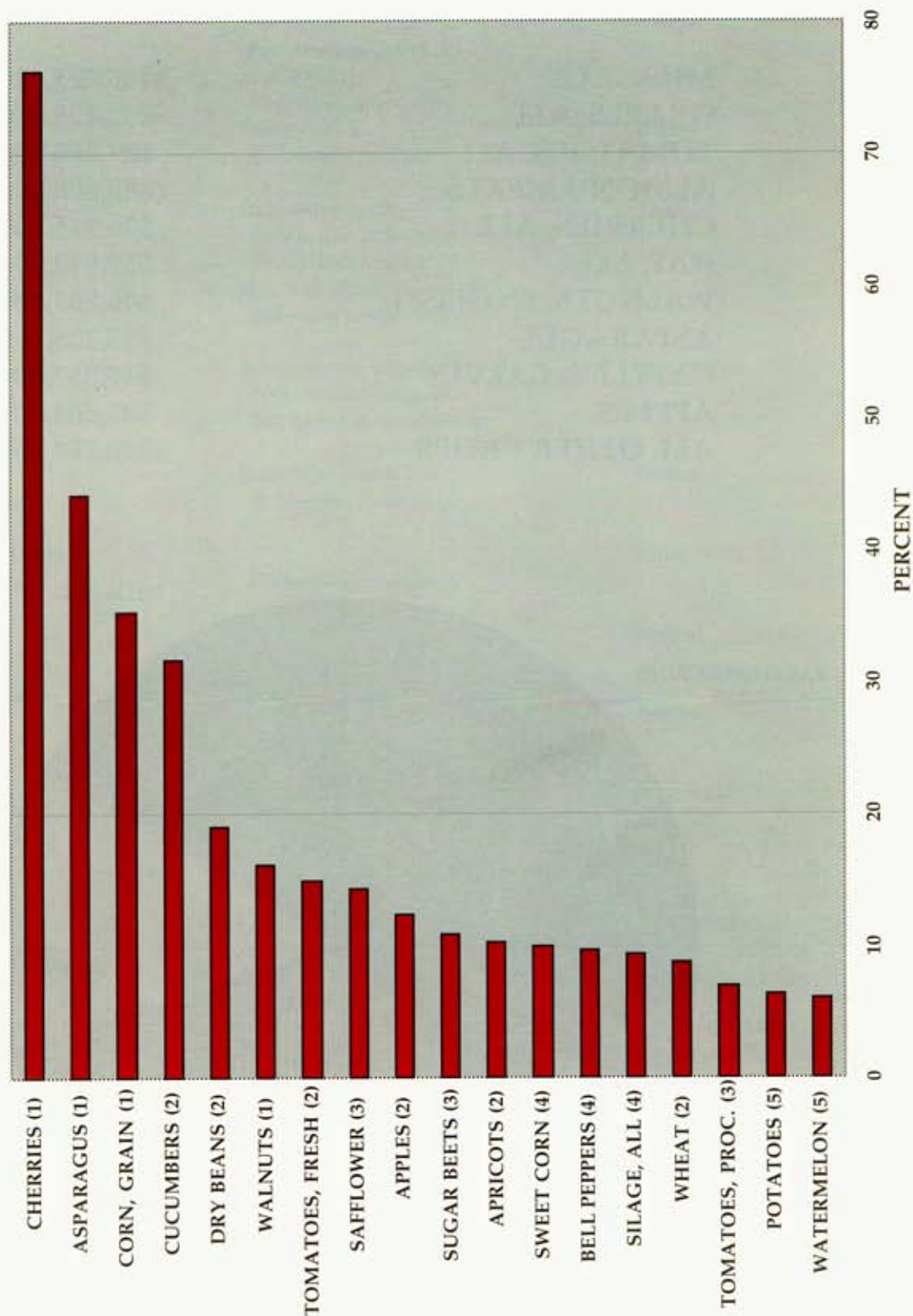


TOTAL VALUE 1994: \$1,121,395,000

TOTAL VALUE 1993: \$1,053,364,000

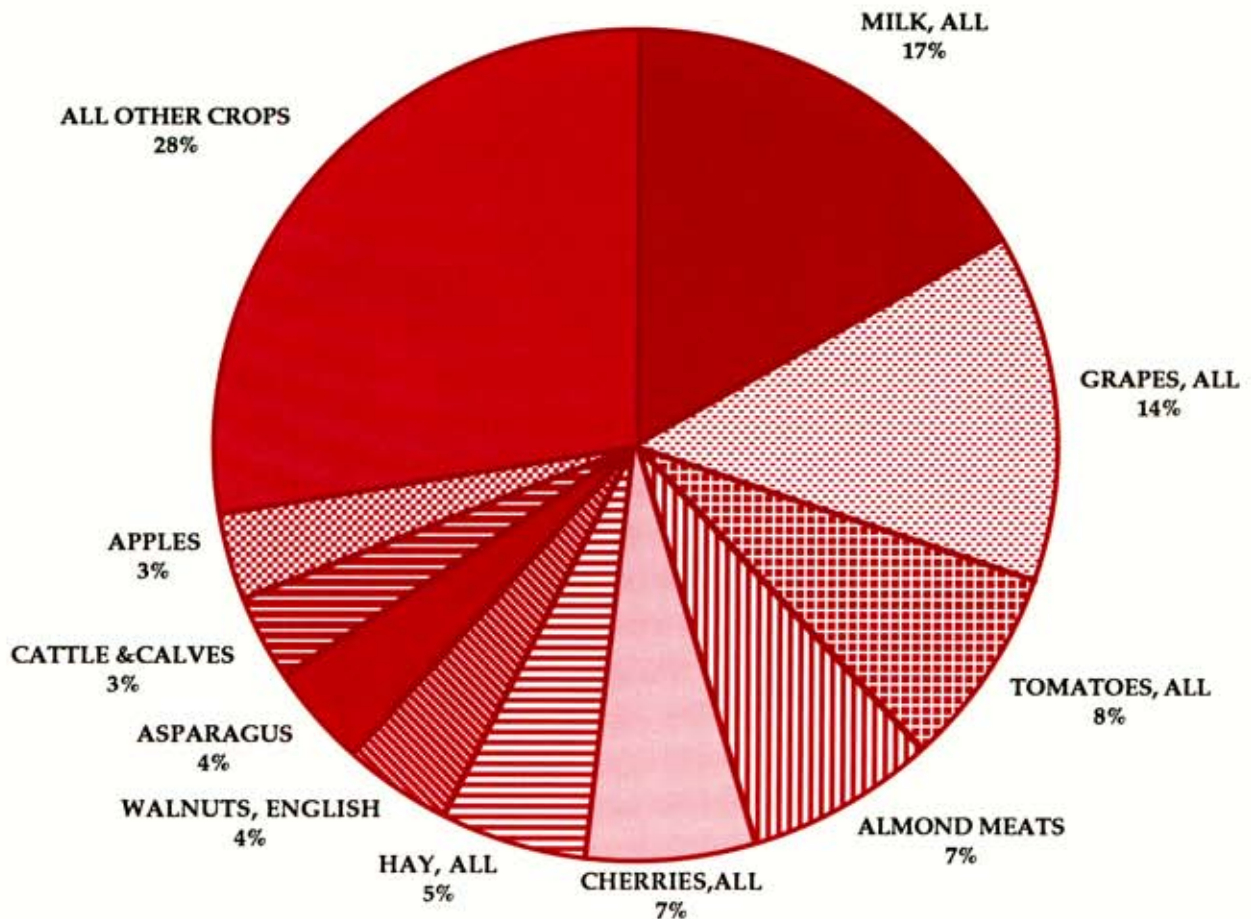
### SAN JOAQUIN COUNTY'S SHARE OF CALIFORNIA PRODUCTION

Listed below are the crops in which San Joaquin County ranked in the top five in the State based on gross value during the 1993 crop year. The bars represent San Joaquin County's percentage of the total 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	\$185,927,000
GRAPES, ALL	\$152,475,000
TOMATOES, ALL	\$87,289,000
ALMOND MEATS	\$80,800,000
CHERRIES, ALL	\$76,915,000
HAY, ALL	\$59,942,000
WALNUTS, ENGLISH	\$46,867,000
ASPARAGUS	\$45,105,000
CATTLE & CALVES	\$37,867,000
APPLES	\$37,504,000
ALL OTHER CROPS	\$310,704,000





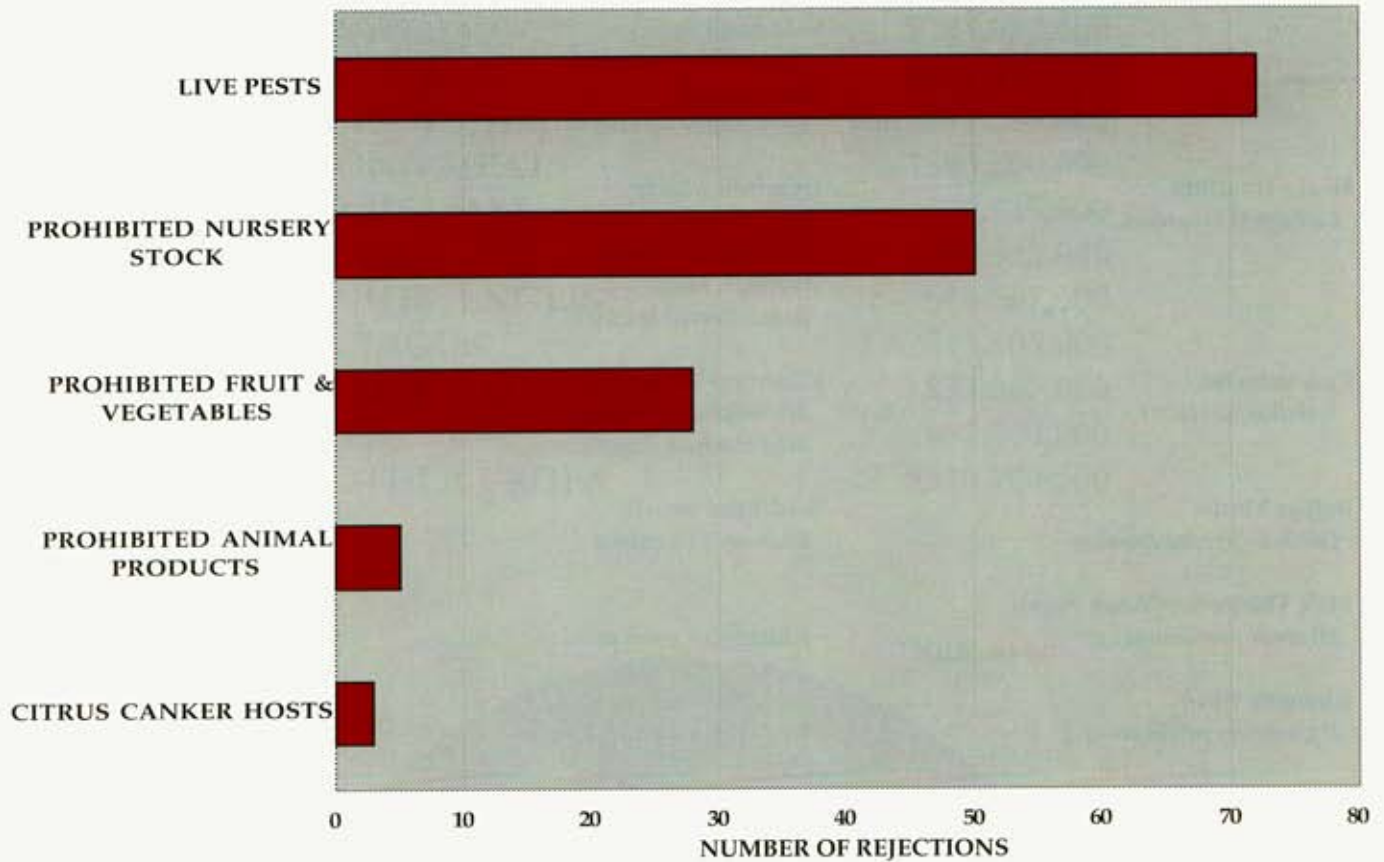
# SAN JOAQUIN COUNTY SUSTAINABLE AGRICULTURE

## 1994 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 albiguttalis</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 Seed-head weevil <i>Silybum marianum</i>	<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 pests
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 1994

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	5 Rejections/Destroyed
Quarantined Scales	Nurseries, P.O., UPS	36 Rejections/Destroyed
Quarantined Snails, Slugs	Nurseries, P.O., UPS	12 Rejections/Destroyed
Imported Fire Ant	Warehouses	1 Rejection/Destroyed
Other Quarantined Insects	Nurseries, P.O., UPS	14 Rejections/Destroyed
Noxious Weeds	P.O., Ethnic Mkt.	4 Rejections/Destroyed
Prohibited Fruit & Vegetables	P.O., UPS, Ethnic Mkt.	28 Rejections/Destroyed
Citrus Canker Hosts	Ethnic Markets, P.O.	3 Rejections/Destroyed
Prohibited Nursery Stock	Nurseries, P.O., UPS	50 Rejections/Destroyed
Prohibited Animal & Meat Products	P.O.	5 Rejections/Destroyed

## GENERAL SAN JOAQUIN COUNTY INFORMATION

COUNTY SEAT	STOCKTON
COUNTY POPULATION (1995)	523,758
POPULATION PER SQUARE MILE	374
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

