



Agricultural Report

SAN
JOAQUIN
COUNTY

1993

Grapes have been the number one plant crop in San Joaquin County for over a decade (exceeded only by milk, our leading agricultural commodity). This year's Crop Report highlights the grape industry. Grapes have been a major part of our agricultural scene since the time of the Civil War.

There are four major commercial groups of grapes: table grapes, raisin grapes, wine grapes and sweet juice grapes. Of these groups, only table grapes and wine grapes are significant in San Joaquin County. Grapes are highly concentrated in the parts of the county surrounding Lodi and the Manteca-Ripon-Escalon area.

For about a century the table grape variety *Flame Tokay* was the dominant variety in the county. First planted in 1862, it thrives in the Lodi area. Once highly regarded for its flavor and lovely color, it has fallen out of favor as a table grape because it is seeded. Now it is mostly crushed for blending wine, and *Tokay* vineyards are rapidly disappearing. However they are being replaced by new plantings of many different wine grape varieties.

Wine grapes are of two types, Red (or Black) varieties and White varieties, that get their names from the color of the skin, not of the wine produced. There are about 24,000 acres of Red wine varieties in the county, over half of which are *Zinfandel*. This distinctive variety with a fruity, raspberry-like flavor has a long history in both California and San Joaquin County. About 16,000 acres of White varieties are grown here, dominated by *Chardonnay*, which is used in fine table wines and sparkling wines.

The cover of this report depicts a mosaic of color, form and flavor that is to be found in our cornucopia of Grapes.

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 1993 Crop Report. Without their support the publication of this report would not have been possible.

**SAN JOAQUIN COUNTY
AGRICULTURAL COMMISSIONER'S OFFICE**

1993 ANNUAL CROP REPORT

**E. B. Eby
Agricultural Commissioner**

**Compiled by
Kirby W. Brown**

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Deputy Agricultural Commissioner
Deputy Agricultural Commissioner

Senior Agricultural Inspector
Senior Agricultural Inspector, Lodi
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Computer Programmer
Data Entry Operator

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Specialist Clerk
Clerk Typist III
Clerk Typist II, Lodi
Clerk Typist II
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Clerk Typist II, Manteca

All staff are based in Stockton unless otherwise noted



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AGRICULTURAL COMMISSIONER
SEALER OF WEIGHTS & MEASURES
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TO HENRY J. VOSS, 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 sixtieth 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 growers.

The gross value of agricultural production for 1993 in San Joaquin County is estimated to be **\$1,053,364,000**. This represents a 16.7% increase from the estimated \$902,514,000 for 1992. It is our first billion dollar crop and an all time high for San Joaquin County. Increases occurred in Field Crops (+15.4%), Seed Crops (+58.8%), Fruit and Nut Crops (+25.6%), Vegetable Crops (+19.9%), Nursery Products (+38.8%), Apiary Products (+35.37%), and in Livestock & Poultry (+5.6%). Decreases occurred only in Livestock & Poultry Products (-1.2%).

Field Crops were estimated to be up \$23,870,000 in 1993. Barley, bean, safflower and corn acreages were up considerably from the 1992 acreages. Prices were steady except for notable increases in beans, hay and safflower.

The largest increase in value was in Fruit and Nut Crops, which were up \$78,437,000 from the previous year. Most of this increase is attributable to increased acreages coming into production. Grapes, our featured crop, were up in both price and acreage but with a slight drop in yield, resulting in an increase of \$30,345,000. Rains during pollination resulted in a third year of low almond production, but with a greatly increased price. Cherries suffered from an initially light crop and damage from late May rains. Cherry exports rose to 64% of the total crop.

The value of Vegetable Crops increased by \$29,865,000. The decline in planted acreage of the last few years dramatically reversed with an increase of 25,000 acres. This can largely be attributed to the end of the drought and more secure water availability. Fresh market and processing tomatoes increased by 8,000 acres and \$13,484,000 in gross value. Asparagus with improved production per acre was up by \$9,619,000. Significant increases occurred in almost all vegetable crops except melons which experienced a combination of decreased production and lower price.

Nursery Products increased significantly by \$15,021,000. This reflects increased demand for vineyard and orchard expansion, and a resurgence of demand for landscape ornamentals with the relaxation of drought restrictions. Seed Crops doubled in value by \$2,742,000 which was a result of the increased need for expansion of field and vegetable crop plantings.

Livestock and Poultry showed modest increases totaling \$2,588,000. Meat production and prices were up slightly. The number of head of sheep and lambs decreased by 7,900. We report "Other Poultry and Aquaculture" for the first time. This category includes squabs, game birds and catfish. Other exotic animals such as ostriches and llamas are being raised here and we hope to include data on these in future reports.

Livestock and Poultry Products decreased \$2,476,000. This was due almost entirely to a drop in egg production resulting from the closing of a major producer. The value of milk, our number one crop, showed a modest increase.

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

Respectfully submitted,


E. B. Eby
Agricultural Commissioner

FIELD CROPS

CROP	YEAR	PRODUCTION			UNIT	GROSS VALUE		
		HARVESTED ACREAGE	PER ACRE	TOTAL		PER UNIT	SUBTOTAL	TOTAL
BARLEY	1993	7,070	2.23	15,800	TON	\$106.00		\$1,672,000
	1992	2,950	2.34	6,890	TON	112.00		771,680
BEANS, DRY, ALL	1993	24,500	1.13	27,600	TON	692.00		19,101,000
	1992	20,900	1.09	22,800	TON	565.00		12,885,000
BLACKEYE	1993	3,380	0.96	3,230	TON	695.00	\$2,245,000	
	1992	4,160	0.98	4,090	TON	444.00	1,818,000	
KIDNEY	1993	15,600	1.10	17,200	TON	686.00	11,795,000	
	1992	7,600	1.03	7,800	TON	747.00	5,825,000	
LIMA (FIELD)	1993	4,726	1.35	6,380	TON	721.00	4,600,000	
	1992	9,100	1.20	10,900	TON	481.00	5,242,000	
GARBANZOS	1993	800	0.90	720	TON	640.00	461,000	
	1992	(Not reported)						
CORN, GRAIN	1993	56,200	5.03	283,000	TON	117.00		33,074,000
	1992	43,200	5.07	219,000	TON	103.00		22,585,000
HAY, ALL	1993	79,500	6.34	504,000	TON	112.00		56,304,000
	1992	71,900	7.77	559,000	TON	87.00		48,466,000
ALFALFA	1993	64,000	7.00	448,000	TON	117.00	52,416,000	
	1992	63,500	8.33	529,000	TON	89.00	46,941,000	
OTHER	1993	15,500	3.62	56,100	TON	69.00	3,888,000	
	1992	8,350	3.60	30,100	TON	50.70	1,525,000	
OATS, GRAIN	1993	1,000	3.25	3,250	TON	120.00		390,000
	1992	900	3.00	2,700	TON	60.00		162,000
PASTURE & RANGE	1993	168,000			ACRE	38.90		6,530,000
	1992	174,000			ACRE	39.00		6,793,000
IRRIGATED	1993	23,700			ACRE	150.00	3,549,000	
	1992	25,500			ACRE	150.00	3,824,000	
OTHER	1993	144,000			ACRE	21.00	2,981,000	
	1992	148,000			ACRE	20.00	2,969,000	
RICE	1993	5,040	3.75	18,900	TON	187.00		3,534,000
	1992	4,960	4.01	19,900	TON	150.00		2,978,000
SAFFLOWER	1993	21,900	1.52	33,300	TON	311.00		10,371,000
	1992	12,200	1.54	18,800	TON	303.00		5,693,000
SILAGE, CORN	1993	25,400	26.1	66,300	TON	16.80		11,142,000
	1992	24,200	25.1	608,000	TON	16.40		9,942,000
SILAGE, OTHER INCLUDES GREEN CHOP	1993	16,700	12.2	204,000	TON	16.10		3,293,000
	1992	24,100	15.1	365,000	TON	17.40		6,368,000
SUGAR BEETS	1993	20,600	25.3	522,000	TON	36.10		18,856,000
	1992	22,000	27.2	598,000	TON	37.50		22,405,000

FIELD CROPS

(CONT.)

CROP	YEAR	PRODUCTION		TOTAL	UNIT	GROSS VALUE		TOTAL
		HARVESTED ACREAGE	PER ACRE			PER UNIT	SUBTOTAL	
SUNFLOWERS	1993	970	1.50	1,460	TON	299.00		\$437,000
	1992	2,030	1.00	2,020	TON	484.00		977,000
WHEAT	1993	49,000	2.63	129,000	TON	106.00		13,664,000
	1992	48,200	2.78	134,000	TON	115.00		15,375,000
MISCELLANEOUS	1993	230						956,000
	1992		(Not reported)					
TOTAL	1993	476,000						\$179,324,000
	1992	451,000						\$155,454,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

SEED CROPS

CROP	YEAR	PRODUCTION		TOTAL	UNIT	GROSS VALUE		TOTAL
		HARVESTED ACREAGE	PER ACRE			PER UNIT		
BEANS, CERTIFIED SEED DARK RED KIDNEY	1993	690	18.7	12,900	CWT	\$40.70		\$525,000
	1992	960	18.0	17,400	CWT	44.00		767,000
LIGHT RED KIDNEY	1993	2,680	23.0	61,500	CWT	38.00		2,339,000
	1992	810	21.0	17,000	CWT	39.00		664,000
BEANS, OTHER	1993	748	21.0	15,726	CWT	38.90		611,000
	1992		(Included in Miscellaneous)					
GRAIN SEED	1993	250	5,000	1,250,000	LBS	0.09		113,000
	1992	470	5,550	2,607,000	LBS	0.08		209,000
POTATOES, SEED	1993	934	290	270,900	CWT	10.50		2,844,000
	1992	440	295	130,000	CWT	10.98		1,428,000
VEGETABLE SEED	1993	282						788,000
	1992	462						820,000
MISCELLANEOUS SEED CLOVER, SUDAN & ETC.	1993	320						187,000
	1992	1,090						777,000
TOTAL	1993	5,900						\$7,407,000
	1992	4,230						\$4,665,000

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FRUIT AND NUT CROPS

CROP	YEAR	PRODUCTION				GROSS VALUE		
		HARVESTED	PER			PER		
		ACREAGE	ACRE	TOTAL	UNIT	UNIT	SUBTOTAL	TOTAL
ALMOND, MEATS	1993	36,100	0.67	24,200	TON	\$3,720.00		\$90,024,000
	1992	34,400	0.65	22,400	TON	2,460.00		55,006,000
ALMOND, HULLS	1993			60,500	TON	75.00		4,538,000
	1992			55,100	TON	62.00		3,415,000
APPLES	1993	2,940	11.0	32,300	TON	666.00		21,512,000
	1992	1,800	13.0	23,400	TON	535.00		12,519,000
APRICOTS	1993	2,960	5.57	16,500	TON	285.00		4,703,000
	1992	2,710	7.00	18,900	TON	271.00		5,123,000
CHERRIES, ALL	1993	8,070	2.01	16,200	TON	3,150.00		51,092,000
	1992	7,330	3.79	27,800	TON	2,140.00		59,595,000
FRESH	1993			13,900	TON	3,540.00	\$49,206,000	
	1992			22,500	TON	2,480.00	55,864,000	
PROCESSING	1993			2,340	TON	806.00	1,886,000	
	1992			5,320	TON	701.00	3,731,000	
GRAPES, ALL	1993	48,400	7.02	340,000	TON	377.00		128,233,000
	1992	43,800	7.74	339,000	TON	289.00		97,888,000
TABLE, ALL	1993	7,070	6.48	45,800	TON	167.00	7,627,000	
	1992	10,400	6.57	68,300	TON	165.00	11,270,000	
FRESH	1993			150	TON	615.00	92,000	
	1992			627	TON	609.00	382,000	
CRUSHED	1993			45,650	TON	165.00	7,535,000	
	1992			70,500	TON	160.00	11,280,000	
WINE, ALL	1993	41,300	7.12	294,000	TON	410.00	120,606,000	
	1992	33,400	8.11	271,000	TON	320.00	86,618,000	
FRESH	1993			7,900	TON	415.00	3,279,000	
	1992			10,400	TON	410.00	4,267,000	
CRUSHED	1993			286,000	TON	410.00	117,327,000	
	1992			261,000	TON	316.00	82,351,000	
PEACHES, ALL	1993	2,440	17.9	43,600	TON	247.00		10,759,000
	1992	2,400	18.1	43,500	TON	246.00		10,695,000
CLINGSTONE	1993	2,010	18.3	36,800	TON	230.00	8,464,000	
	1992	1,950	19.0	37,000	TON	223.00	8,248,000	
FREESTONE	1993	428	15.9	6,790	TON	338.00	2,295,000	
	1992	454	14.2	6,450	TON	379.00	2,447,000	
PEARS	1993	707	14.0	9,900	TON	211.00		2,089,000
	1992	680	15.3	10,400	TON	209.00		2,169,000

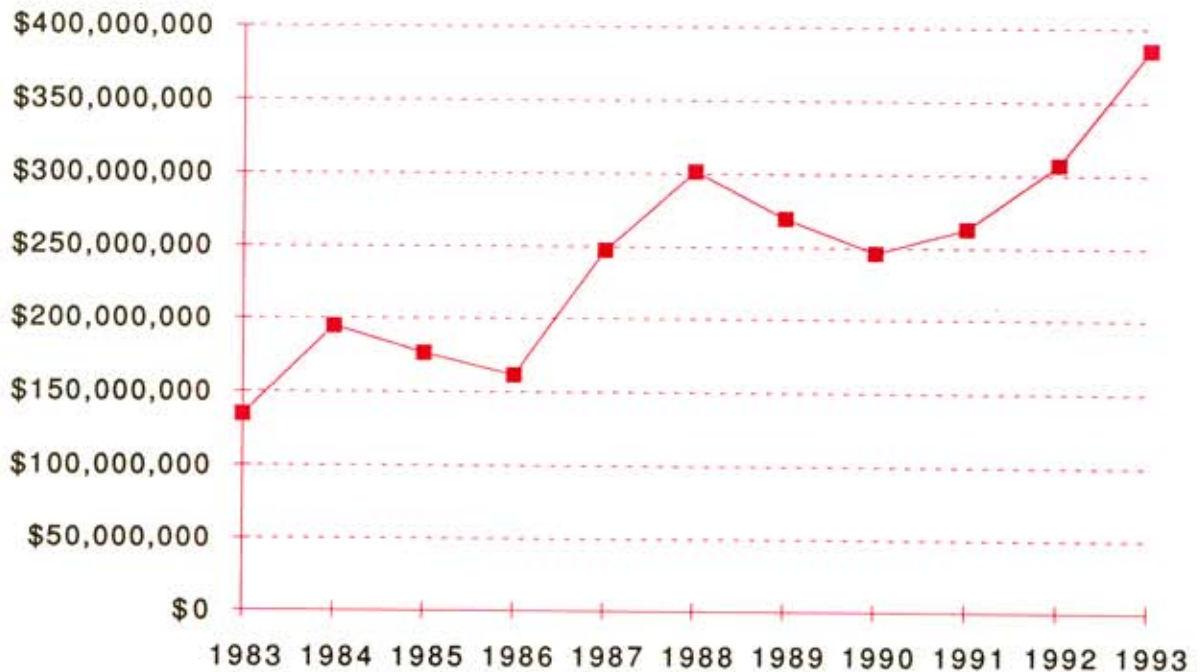
FRUIT AND NUT CROPS (CONT.)

CROP	YEAR	PRODUCTION			UNIT	GROSS VALUE		
		HARVESTED ACREAGE	PER ACRE	TOTAL		PER UNIT	SUBTOTAL	TOTAL
WALNUTS, ENGLISH	1993	30,600	1.55	47,400	TON	\$1,430.00		\$67,782,000
	1992	28,800	1.40	40,400	TON	1,400.00		53,910,000
MISCELLANEOUS	1993	790						4,503,000
	1992	995						3,844,000
TOTAL	1993	133,000						\$385,235,000
	1992	124,000						\$306,798,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

THE RISE OF FRUIT AND NUT CROP VALUES

Over the years, Fruit and Nut Crops have remained among the leading commodities in San Joaquin County. As the graph below shows, the early to mid 80's values ranged from 150 to 200 million dollars. The last four years have seen a substantial increase from around 250 million dollars to almost 400 million dollars, another all time high.



VEGETABLE CROPS

CROP	YEAR	PRODUCTION				GROSS VALUE		
		HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	SUBTOTAL	TOTAL
ASPARAGUS	1993	16,800	1.73	29,100	TON	\$1,720.00		\$50,052,000
	1992	16,500	1.45	23,900	TON	1,690.00		40,433,000
BROCCOLI	1993	1,140	3.51	4,000	TON	\$359.00		1,436,000
	1992		(Included in Miscellaneous)					
CAULIFLOWER	1993	1,620	3.52	5,700	TON	513.00		2,924,000
	1992	740	4.50	3,310	TON	510.00		1,687,000
CORN, SWEET	1993	3,140	5.56	17,500	TON	\$287.00		5,023,000
	1992		(Included in Miscellaneous)					
CUCUMBERS	1993	3,680	14.4	53,000	TON	170.00		9,010,000
	1992	2,310	15.5	35,900	TON	164.00		5,876,000
MELONS, ALL	1993	3,770	11.9	45,000	TON	93.00		4,189,000
	1992	2,320	17.1	39,600	TON	117.00		4,638,000
WATERMELON	1993	1,770	15.0	26,600	TON	95.00	\$2,527,000	
	1992	1,980	18.1	35,900	TON	114.00	4,085,000	
OTHER	1993	2,000	9.2	18,400	TON	90.30	1,662,000	
	1992	344	10.8	3,710	TON	149.00	553,000	
ONIONS, DRY	1993	3,550	17.9	63,500	TON	174.00		11,049,000
	1992	2,650	23.5	62,400	TON	190.00		11,831,000
PEPPERS	1993	3,580	15.5	55,500	TON	201.00		11,156,000
	1992	3,730	15.6	58,200	TON	257.00		14,979,000
POTATOES	1993	2,740	15.0	41,100	TON	155.00		6,371,000
	1992	2,210	16.0	35,360	TON	159.00		5,625,000
PUMPKINS	1993	2,530	10.9	27,600	TON	115.00		3,174,000
	1992	2,310	8.9	20,500	TON	129.00		2,647,000
TOMATOES, ALL	1993	27,900	28.1	784,000	TON	89.00		69,640,000
	1992	19,900	29.4	585,000	TON	96.00		56,156,000
SHIPPING	1993	6,900	13.7	95,000	TON	390.00	37,050,000	
	1992	6,600	12.5	82,500	TON	389.00	32,088,000	
PROCESSING	1993	21,000	32.8	689,000	TON	47.30	32,590,000	
	1992	13,300	37.7	502,000	TON	47.90	24,068,000	
MISCELLANEOUS VEGETABLES	1993	3,410						5,692,000
	1992	3,530						5,979,000
TOTAL	1993	73,900						\$179,716,000
	1992	56,200						\$149,851,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

NURSERY PRODUCTS

ITEM	YEAR	QUANTITY	UNIT	GROSS VALUE
		SOLD BY PRODUCERS		TOTAL
GRAPEVINES, STRAWBERRY PLANTS, FRUIT & NUT TREES	1993	69,895,000	PLANT	\$4,427,000
	1992	62,227,000	PLANT	3,940,000
VEGETABLE PLANTS	1993	110,612,000	PLANT	3,883,000
	1992	80,565,000	PLANT	2,307,000
FLOWERING POTTED PLANTS	1993	3,660,000	EACH	8,435,000
	1992	3,542,000	EACH	9,173,000
FOLIAGE PLANTS	1993	5,527,000	EACH	8,425,000
	1992	5,026,000	EACH	8,430,000
BEDDING PLANTS	1993	14,585,000	PKG	8,476,000
	1992	997,000	PKG	4,765,000
WOODY ORNAMENTALS	1993	3,142,000	EACH	13,296,000
	1992	1,329,000	EACH	4,828,000
CHRISTMAS TREES	1993	6,810	EACH	87,000
	1992	6,420	EACH	122,000
BULBS, RHIZOMES, TURF, CACTUS, ETC.	1993			6,693,000
	1992			5,136,000
TOTAL	1993			\$53,722,000
	1992			\$38,701,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

APIARY PRODUCTS

CROP	YEAR	PRODUCTION	UNIT	PER	TOTAL
				UNIT	
HONEY	1993	615,000	LBS	\$0.54	\$332,000
	1992	374,000	LBS	0.55	206,000
POLLINATION	1993	97,200	HIVE	28.20	2,741,000
	1992	79,500	HIVE	26.00	2,064,000
TOTAL	1993				\$3,073,000
	1992				\$2,270,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

LIVESTOCK AND POULTRY

ITEM	YEAR	NO. HEAD	LIVEWEIGHT	UNIT	PER UNIT	TOTAL
CATTLE & CALVES	1993	155,000	570,000	CWT	\$70.00	\$39,900,000
	1992	152,000	546,000	CWT	67.00	36,575,000
SHEEP & LAMBS	1993	27,700	27,400	CWT	59.80	1,639,000
	1992	35,600	35,200	CWT	55.50	1,953,000
HOGS & PIGS	1993	6,200	6,580	CWT	68.90	453,000
	1992	6,320	6,710	CWT	65.00	436,000
BROILERS, FRYERS, DUCKS & RABBITS	1993	1,220,000	5,890,000	LBS	0.50	2,945,000
	1992	1,320,000	5,690,000	LBS	0.71	4,047,000
OTHER CHICKENS & SPENT HENS	1993	2,634,000		EACH	0.31	817,000
	1992	2,731,000		EACH	0.31	845,000
TURKEYS	1993	248,000	3,614,000	LBS	0.41	1,482,000
	1992	187,000	2,852,000	LBS	0.38	1,087,000
OTHER POULTRY & AQUACULTURE	1993					295,000
	1992					(Not reported)
TOTAL	1993					\$47,531,000
	1992					\$44,943,000

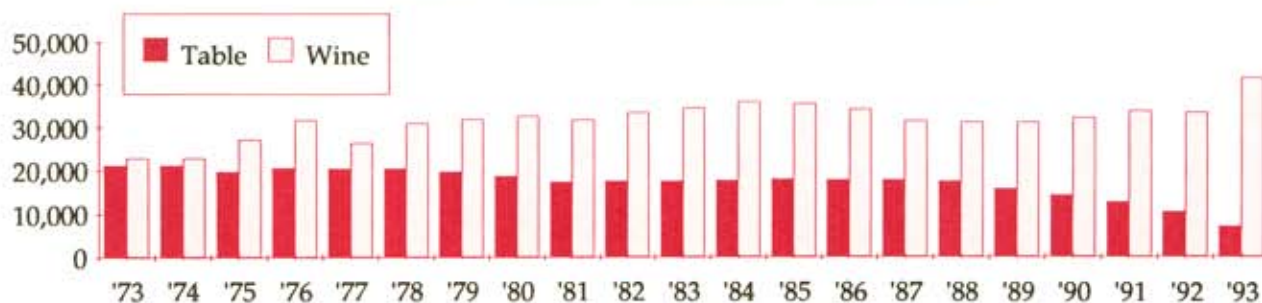
LIVESTOCK AND POULTRY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	PER UNIT	SUBTOTAL	TOTAL
MILK, ALL	1993	14,870,000	CWT	\$11.40		\$169,457,000
	1992	14,480,000	CWT	11.60		167,982,000
MARKET	1993	14,665,000	CWT	11.40	\$167,181,000	
	1992	14,293,000	CWT	11.60	165,938,000	
MANUFACTURING	1993	205,000	CWT	11.10	2,276,000	
	1992	187,000	CWT	10.90	2,044,000	
WOOL	1993	201,000	LBS	0.51		103,000
	1992	224,000	LBS	0.75		168,000
EGGS, CHICKEN	1993	45,581,000	DOZ	0.54		24,614,000
	1992	66,163,000	DOZ	0.45		29,745,000
MANURE	1993	405,000	TON	4.40		1,782,000
	1992	399,000	TON	4.30		1,720,000
OTHER LIVESTOCK & POULTRY PRODUCTS	1993					1,400,000
	1992					217,000
TOTAL	1993					\$197,356,000
	1992					\$199,832,000

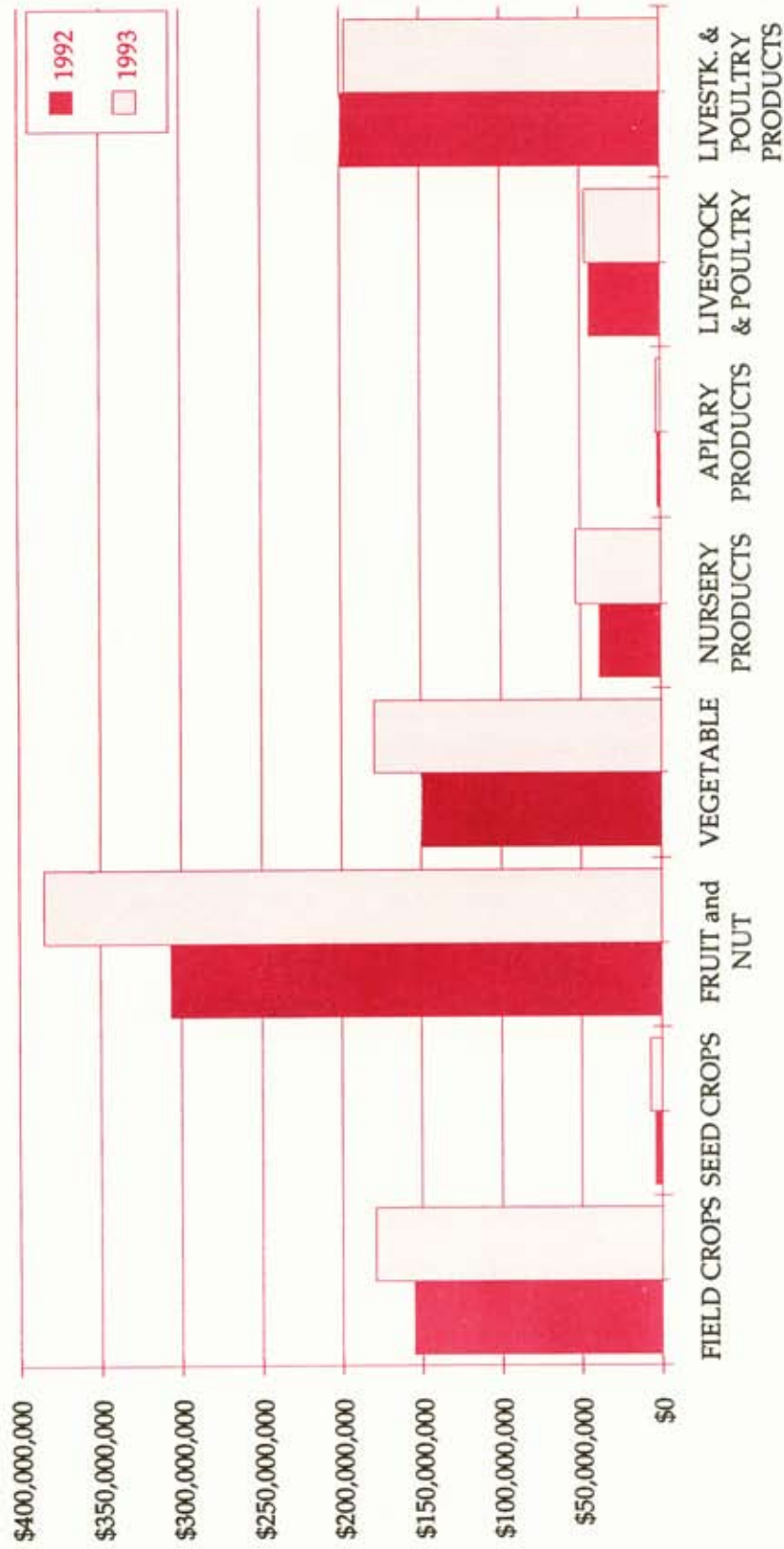
GRAPES 1993

TYPE	VARIETY	PRODUCTION TONS			GROSS VALUE		
		HARVESTED ACREAGE	PER ACRE	TOTAL	PER TON	SUBTOTAL	TOTAL
ALL GRAPES		48,400	7.02	340,000	\$377.00		\$128,233,000
TABLE	all	7,070	6.48	45,800	167.00	\$7,627,000	
	Tokay, all	7,000	6.48	45,350	166.00	7,550,000	
	Tokay, fresh			150	615.00	92,000	
	Tokay, crushed			45,200	165.00	7,458,000	
	other, crushed	70	6.40	450	172.00	77,000	
WINE	all	41,300	7.12	294,000	410.00	\$120,606,000	
WINE	all, fresh pack	1,200	6.60	7,900	415.00	\$3,279,000	
WINE	all, crushed	40,100	7.13	286,000	410.00	\$117,327,000	
RED WINE	crushed	24,110	7.18	173,000	440.00	\$76,200,000	
	Barbera	120	8.00	1,000	337.00	337,000	
	Cabernet Sauvignon	4,040	6.50	26,300	546.00	14,360,000	
	Carrignane	2,000	8.50	17,000	270.00	4,590,000	
	Grenache	780	6.50	5,100	203.00	1,035,000	
	Merlot	2,100	6.00	12,600	686.00	8,644,000	
	Mission	260	7.20	1,900	196.00	372,000	
	Petite Sirah	190	4.50	900	285.00	257,000	
	Rubired	300	3.60	1,100	326.00	359,000	
	Zinfandel	14,050	7.50	105,400	434.00	45,744,000	
	other	270	6.30	1,700	295.00	502,000	
WHITE WINE	crushed	16,020	7.05	112,900	364.00	\$41,127,000	
	Burger	1,170	11.50	13,500	172.00	2,322,000	
	Chardonnay	7,350	5.90	43,400	569.00	24,695,000	
	Chenin Blanc	2,200	7.50	16,500	238.00	3,927,000	
	French Columbard	3,610	7.88	28,400	199.00	5,652,000	
	Sauvignon Blanc	1,450	6.20	9,000	429.00	3,861,000	
	Semillion	140	9.00	1,300	344.00	447,000	
	other	100	7.50	800	279.00	223,000	

GRAPE ACREAGE TRENDS 1973 TO 1993



CROP CATEGORY GROSS VALUES

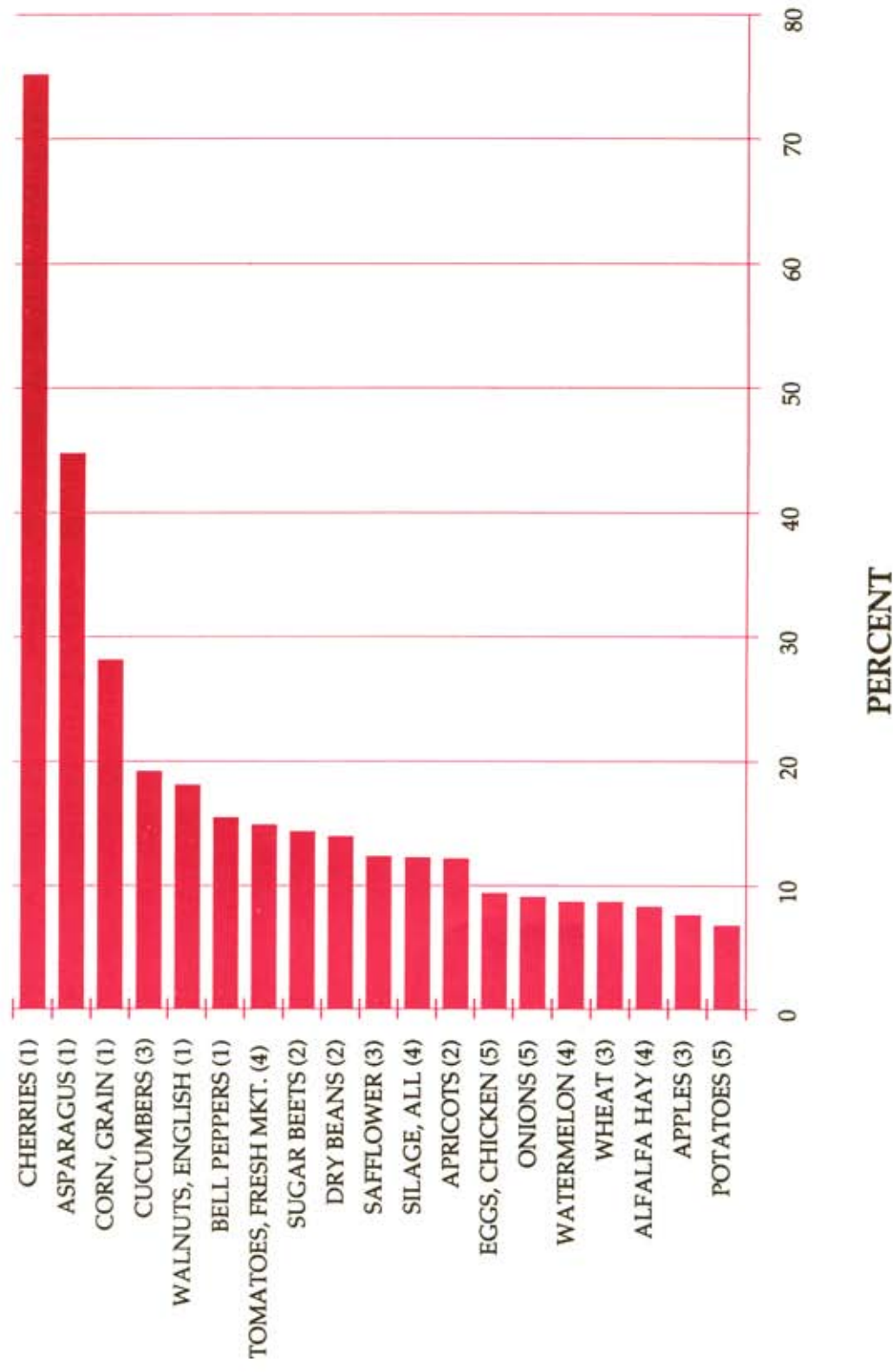


TOTAL VALUE 1992 \$902,514,000

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

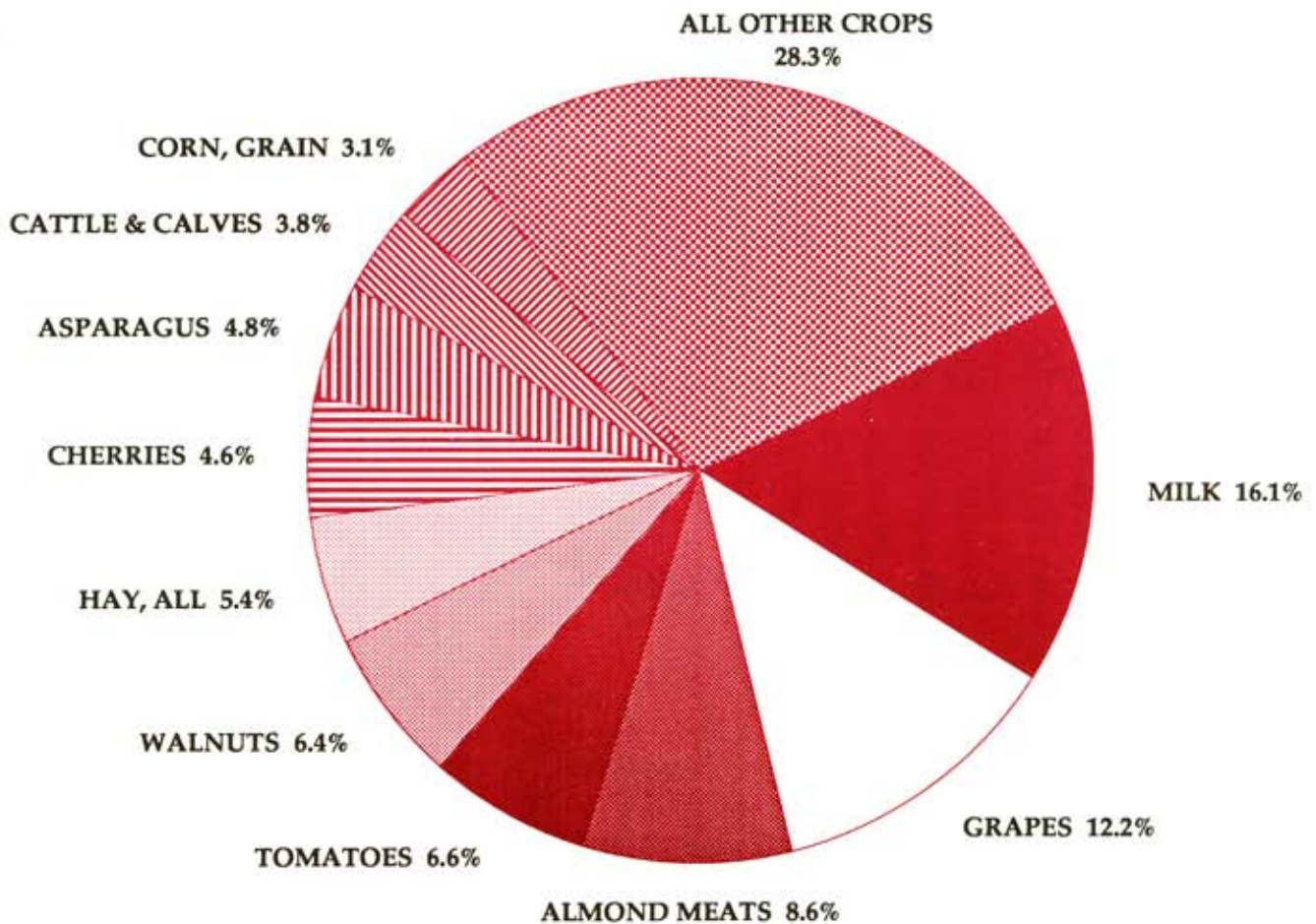
SAN JOAQUIN COUNTY'S SHARE OF CALIFORNIA PRODUCTION

Listed below are the crops in which San Joaquin County ranked in the top five in the State based on gross value during the 1992 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	\$169,457,000
GRAPES, ALL	\$128,233,000
ALMOND MEATS	\$90,024,000
TOMATOES, ALL	\$69,640,000
WALNUTS, ENGLISH	\$67,782,000
HAY, ALL	\$56,304,000
CHERRIES, ALL	\$51,092,000
ASPARAGUS	\$50,052,000
CATTLE & CALVES	\$39,900,000
CORN, GRAIN	\$33,074,000
ALL OTHER CROPS	\$297,806,000





SAN JOAQUIN COUNTY SUSTAINABLE AGRICULTURE

1993



BIOLOGICAL CONTROL

PEST	CONTROL ORGANISM	SCOPE OF PROGRAM
Yellowstar thistle <i>Centaurea solstitialis</i>	Seed-head weevil <i>Bangasternus orientalis</i>	5 sites
	Seed-head fly <i>Urophora sirunaseva</i>	2 sites
Water Hyacinth <i>Eichornia crassipes</i>	Hyacinth weevils <i>Neohetina 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 <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</i> spp.	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
Cottonycushion scale <i>Icerya purchasi</i>	Vedalia beetle <i>Rodalia cardinalis</i>	countywide
	Parasitic fly <i>Cryptochaetum iceryae</i>	
Greenhouse pests		
Greenhouse whitefly	Wasp, <i>Encarsia formosa</i>	2 sites
Fungus gnats	Nematode, <i>Steinernema feltiae</i>	2 sites
Two-spot mites	Predator mite, <i>Phytoseiulus</i> sp.	2 sites
	Predator mite <i>Metaseiulus occidentalis</i>	2 sites

PEST EXCLUSION REJECTIONS 1993



NUMBER OF REJECTIONS

The above graph depicts the number of Exclusion rejections issued on shipments in violation of California Quarantines. The rejected materials were destroyed. All shipments of plant material entering San Joaquin County are inspected as a function of the Agricultural Commissioners' Pest Exclusion Program.

ORGANIC FARMING IN SAN JOAQUIN COUNTY

Number registered	Crop Category	Acres Planted
6	VEGETABLES	141
	FRUIT & NUTS	128

GENERAL SAN JOAQUIN COUNTY INFORMATION

COUNTY SEAT	STOCKTON
COUNTY POPULATION (1993)	514,505
POPULATION PER SQUARE MILE	355
INCORPORATED CITIES (7)	
ESCALON, LATHROP, LODI, MANTECA, RIPON, STOCKTON AND TRACY	
LAND AREA (SQUARE MILES)	1,448
LAND IN FARMS (ACRES - 1987)	823,729
TOTAL CROPLAND (ACRES - 1987)	550,526
IRRIGATED CROPLAND (ACRES - 1987)	448,511
NUMBER OF FARMS (1987)	4,366
AVERAGE SIZE OF FARMS (ACRES - 1987)	189
AGRICULTURAL WORK FORCE (1993 AVERAGE)	15,500
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

