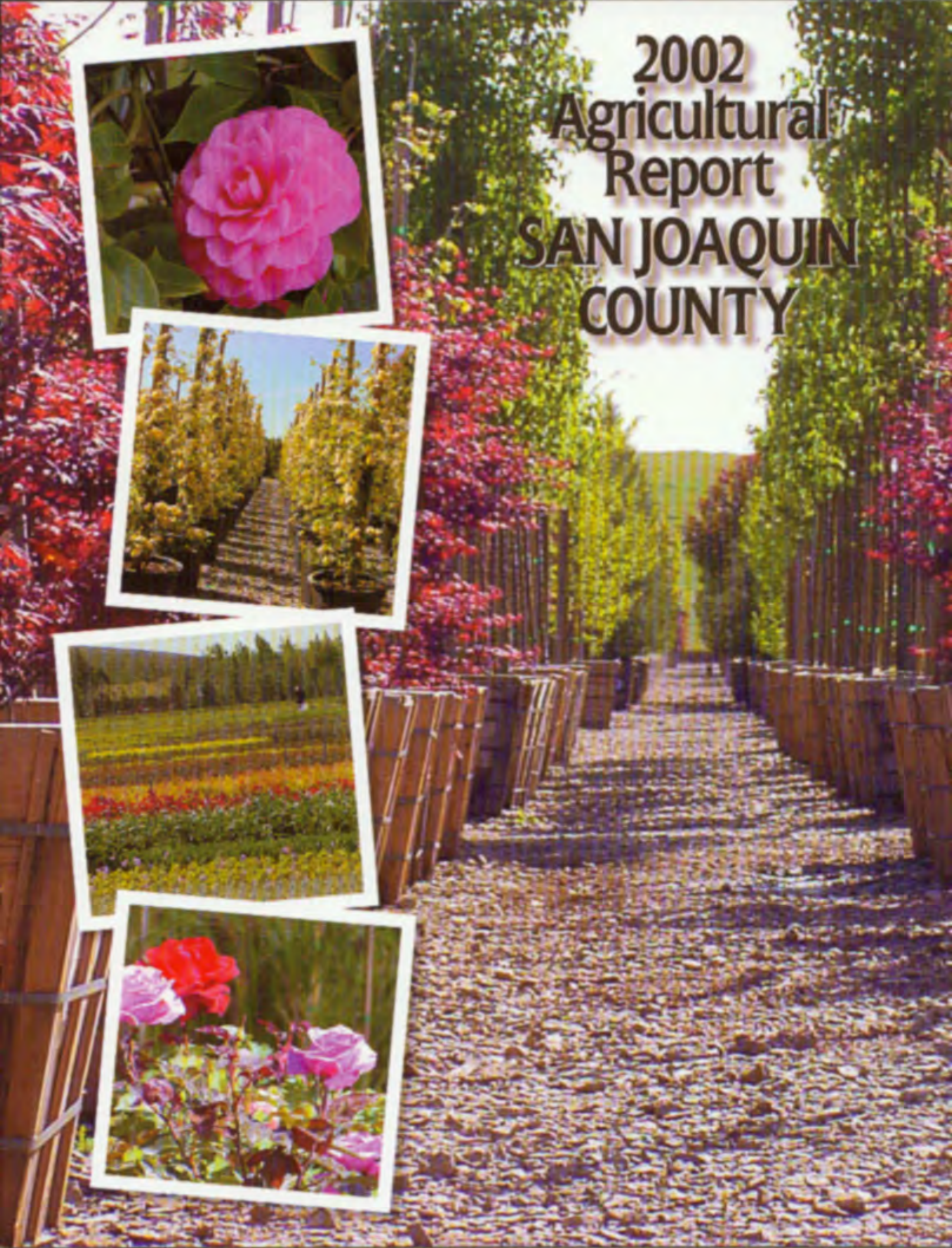


**2002
Agricultural
Report
SAN JOAQUIN
COUNTY**



Woody Ornamentals

Woody Ornamentals... The tree house in the backyard and the rose garden at the park... The large shade tree in the parking lot at the mall and the sweet smell of jasmine as we approach the entrance... All are examples of how woody ornamentals impact our lives everyday. With this in mind, it is easy to see how California's growing population has created an ever-increasing demand for these plants. San Joaquin County growers are meeting this demand. With 2002 production worth over 53 million dollars, local growers are embracing a solid market and laying a groundwork for a stronger future.

Woody ornamentals play an important part in our western lifestyle. While we have always enjoyed their color, fragrance and décor in a landscape setting, their other values are well appreciated. Because of their woody stems and generally hardy nature, trees and shrubs have become invaluable in a variety of situations. We use them to help control erosion on hillsides or as windbreaks near roads, houses and fields. We plant trees to provide summer shade and hedges for year round privacy. A golf course oak can provide habitat for the owl that keeps fairway gopher numbers in check.

Historical records indicate tree nurseries in San Joaquin County were established as early as 1853. One of these, The Stockton Nursery, sold a wide variety of woody and herbaceous plants for ornamental and farm/garden use. In 1860 the records of the "San Joaquin Agricultural Society" notes three farms with growing grounds devoted to ornamental trees and shrubs. These early nurseries helped meet the needs of a growing Stockton and the many beautification projects of a young county seat. Stockton continues to realize the value of such endeavors. While currently home to an 'urban forest' of over 100,000 planted trees, Stockton was voted by Sunset magazine as the West's "Best Tree City" in 2002.

The early nurseries of San Joaquin County spawned a slow and steady growth for the next 120 years. Then, in the late 1980's, larger nurseries from Southern California began to take notice of San Joaquin County. They were attracted by the mild winters and the cool summer delta breezes as well as the close proximity to the burgeoning Silicon Valley and other new markets to the north. In five short years from 1988 to 1992, new nurseries helped raise woody ornamental crop values by 575% from 1.6 million to well over 11 million dollars. That same exponential growth trend has continued, with the 2002 woody ornamental crop valued at well over 53 million dollars.

However rosy a picture, this industry is not without it's thorns. Pest issues such as the Glassy Winged Sharpshooter and the Red Imported Fire Ant have kept local industry on their toes. Local growers have worked closely with County and State Agriculture officials to help keep these and other new pests out of San Joaquin County. Pesticide use, clean water and worker safety are just a few of the other issues facing today's nurseries. Recent economic issues have slowed down new housing in the Bay Area. However, the Central and Northern San Joaquin Valleys have not experienced this trend and are now California's leading growth area. This has helped to offset a slowdown in sales of nursery stock to the Bay area. This new trend of local growth finds San Joaquin County growers poised to meet the demand.

California's increasing population has developed a growing market for San Joaquin woody ornamentals. With urbanization expected to continue, the need for these plants is only expected to increase. That means more treehouses and rose gardens. There are sunny days ahead for the growers of San Joaquin County woody ornamentals

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

2002 ANNUAL CROP REPORT

**Scott Hudson
Agricultural Commissioner**

Compiled by
Don McCoon, Jr. and Ann Curtoni

Board Of Supervisors

Steven Gutierrez	District 1
Dario L. Marengo	District 2
Victor Mow	District 3
Jack A. Sieglock, Chairman	District 4
Leroy Ornellas	District 5

**Manuel Lopez
County Administrator**

**AGRICULTURAL COMMISSIONER
SCOTT HUDSON**

**ASSISTANT AGRICULTURAL COMMISSIONER
VICKI HELMAR**

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Martin Brockman
Tom Reed
Gary Stockel**

**Deputy Agricultural Commissioner
Deputy Agricultural Commissioner
Deputy Agricultural Commissioner
Deputy Agricultural Commissioner**

**Larry Allen
Scott Barnes
Colleen Bednarek
Mike Croce
Diane Curry
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Barbara Huecksteadt
August Lansigan
Doug Mattes
Don McCoon, Jr.
Rand Medina
Robert Pelletier
Don Rademacher
Ted Viss
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Sue Williamson**

**Senior Agricultural Biologist/Entomologist
Senior Agricultural Biologist, Simms Station
Agricultural Biologist I
Senior Agricultural Biologist, Lodi
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Agricultural Biologist II
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Senior Agricultural Biologist, Lodi
Senior Agricultural Biologist, Lodi
Senior Agricultural Biologist, Tracy
Senior Agricultural Biologist
Agricultural Biologist I
Agricultural Biologist I
Senior Agricultural Biologist, Simms Station
Agricultural Biologist I
Agricultural Biologist II
Senior Agricultural Biologist, Simms Station
Senior Agricultural Biologist**

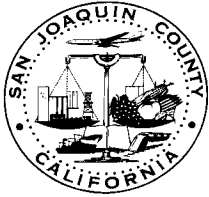
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Victor Garcia
Penny Arounsack
Josh Lahner
Chyrel Miller**

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Department Information Systems Specialist II
GIS Developer
GIS Developer
Data Entry Operator I**

**Mary Jo Avagliano
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Annette Avery
Laura Borjon
Rachel Dawson
Hazel Gallego
Carol Giuffre
Hiromi Hernandez
Terry King
Laura Rocha**

**Administrative Secretary
Senior Office Assistant, Lodi
Senior Office Assistant
Senior Office Assistant, Tracy
Senior Office Assistant
Office Assistant Specialist
Senior Office Assistant
Office Assistant
Accounting Technician II
Senior Office Assistant, Simms Station**

All staff are based in Stockton unless otherwise noted.



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AGRICULTURAL COMMISSIONER

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SCOTT HUDSON
AGRICULTURAL COMMISSIONER
SEALER OF WEIGHTS & MEASURES
ANIMAL CONTROL

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

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

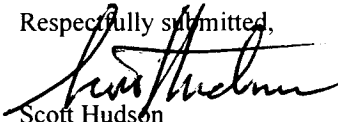
Dear Secretary and Board Members:

In accordance with Section 2279 of the California Food and Agriculture Code, I am pleased to present the sixty-ninth 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 2002 in San Joaquin County is estimated to be \$1,343,808,000. This represents a 3.27% decrease from the estimated \$1,389,307,000 for 2001. Significant increases occurred in Vegetable Crops, Nursery Products and Apiary. Values for Fruit and Nut Crops, Field Crops and Seed Crops remained relatively static. Livestock & Poultry and Livestock & Poultry Products decreased in value. Some highlights of the 2002 crop year are as follows:

- Milk retained the number one position despite lower prices.
- Tomatoes, Hay, Woody Ornamentals, Melons, and Honey achieved all time high values.
- Grape values decreased because of yield and price reductions.
- Woody Ornamentals enjoyed a 56% increase in value to raise in rank to number 8.
- Cherries dropped to number 6 primarily due to lower yield and decreased prices received for export shipments.
- Honey prices rose sharply in 2002 helping to raise apiary values to an all time high of \$8,791,000.
- Asparagus Growers experienced a 10-year low in crop values.
- Vegetable Crop values are up overall, largely spurred by increases in Melons, Onions and Processing Tomatoes.

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

Increased prices and yields offset decreased acreages of many crops.

CROP	YEAR	PRODUCTION			UNIT	PER UNIT	GROSS VALUE	
		HARVESTED ACREAGE	PER ACRE	TOTAL			SUBTOTAL	TOTAL
BEANS, DRY, ALL	2002	10,600	1.08	11,400	TON	\$693.00		\$7,895,000
	2001	15,200	1.05	16,000	TON	\$617.00		\$9,875,000
BLACKEYE	2002	1,000	0.80	800	TON	\$640.00	512,000	
	2001	3,700	0.98	3,600	TON	\$550.00	1,998,000	
KIDNEY	2002	3,400	0.98	3,373	TON	\$640.00	2,159,000	
	2001	4,200	0.83	3,468	TON	\$728.00	2,525,000	
LIMA	2002	5,000	1.43	7,200	TON	\$650.00	4,648,000	
	2001	5,500	1.31	7,200	TON	\$685.00	4,915,000	
GARBANZO / OTHER	2002	1,200	1.00	1,200	TON	\$480.00	576,000	
	2001	1,750	0.48	840	TON	\$520.00	437,000	
CORN, GRAIN	2002	47,600	5.20	247,600	TON	\$102.00		\$25,254,000
	2001	57,800	4.76	275,000	TON	\$92.00		\$25,409,000
HAY, ALL	2002	87,600	6.44	563,800	TON	\$113.00		\$63,644,000
	2001	78,200	6.47	505,600	TON	\$120.00		\$60,659,000
ALFALFA	2002	67,810	7.00	474,670	TON	\$120.00	56,960,000	
	2001	59,900	7.20	431,400	TON	\$125.00	54,012,000	
OTHER	2002	19,805	4.50	89,100	TON	\$75.00	6,684,000	
	2001	18,300	4.05	74,200	TON	\$90.00	6,647,000	
PASTURE & RANGE	2002	139,000			ACRE	\$31.00		\$4,402,000
	2001	146,000			ACRE	\$28.00		\$4,027,000
IRRIGATED	2002	19,300			ACRE	\$135.00	2,602,000	
	2001	16,700			ACRE	\$125.00	2,082,000	
OTHER	2002	120,000			ACRE	\$15.00	1,800,000	
	2001	129,700			ACRE	\$15.00	1,945,000	
RICE	2002	6,900	4.20	29,000	TON	\$165.00		\$4,782,000
	2001	6,600	4.01	26,500	TON	\$160.00		\$4,368,000
SAFFLOWER	2002	8,200	1.50	12,200	TON	\$246.00		\$3,010,000
	2001	8,500	1.42	12,100	TON	\$221.00		\$2,668,000
SILAGE, CORN	2002	39,700	30.00	1,191,700	TON	\$22.00		\$26,217,000
	2001	37,600	29.87	1,122,500	TON	\$21.00		\$23,449,000
SILAGE, OTHER	2002	41,800	14.00	585,600	TON	\$16.00		\$9,369,000
INCLUDES GREEN CHOP	2001	37,200	10.70	389,200	TON	\$19.70		\$7,847,000

FIELD CROPS

CROP	YEAR	PRODUCTION			UNIT	PER UNIT	GROSS VALUE
		HARVESTED ACREAGE	PER ACRE	TOTAL			TOTAL
WHEAT	2002	30,700	2.68	82,200	TON	\$106.00	\$8,717,000
	2001	47,300	2.62	123,800	TON	\$92.00	\$11,390,000
OTHER*	2002	2,170					\$824,000
	2001	3,470					\$1,230,000
TOTAL	2002	413,000					\$154,114,000
	2001	436,000					\$150,922,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

*INCLUDES BARLEY, SUNFLOWERS, SUDAN FOR PAPER, CORN NUTS, AND OATS FOR GRAIN

SEED CROPS

Seed Crops benefitted from higher yields and increased prices in 2002

CROP	YEAR	PRODUCTION			UNIT	PER UNIT	GROSS VALUE
		HARVESTED ACREAGE	PER ACRE	TOTAL			TOTAL
KIDNEY BEAN*	2002	1,490	19.20	28,600	CWT	\$36.00	\$1,030,000
	2001	814	17.60	14,300	CWT	\$34.29	\$490,300
BEANS, OTHER*	2002	553	13.75	7,604	CWT	\$36.00	\$417,000
	2001	543	9.00	4,723	CWT	\$32.00	\$151,000
POTATOES, SEED	2002	771	350.00	269,900	CWT	\$15.00	\$4,048,000
	2001	856	300.00	256,800	CWT	\$13.00	\$3,338,000
VEGETABLE SEED	2002	655					\$2,211,000
	2001	740					\$3,838,000
MISCELLANEOUS	2002	620					\$255,000
SUDAN, GRAIN & ETC.*	2001	220					\$125,000
TOTAL	2002	2,360					\$7,961,000
	2001	2,950					\$7,942,300

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

*INCLUDES CERTIFIED SEED

FRUIT AND NUT CROPS

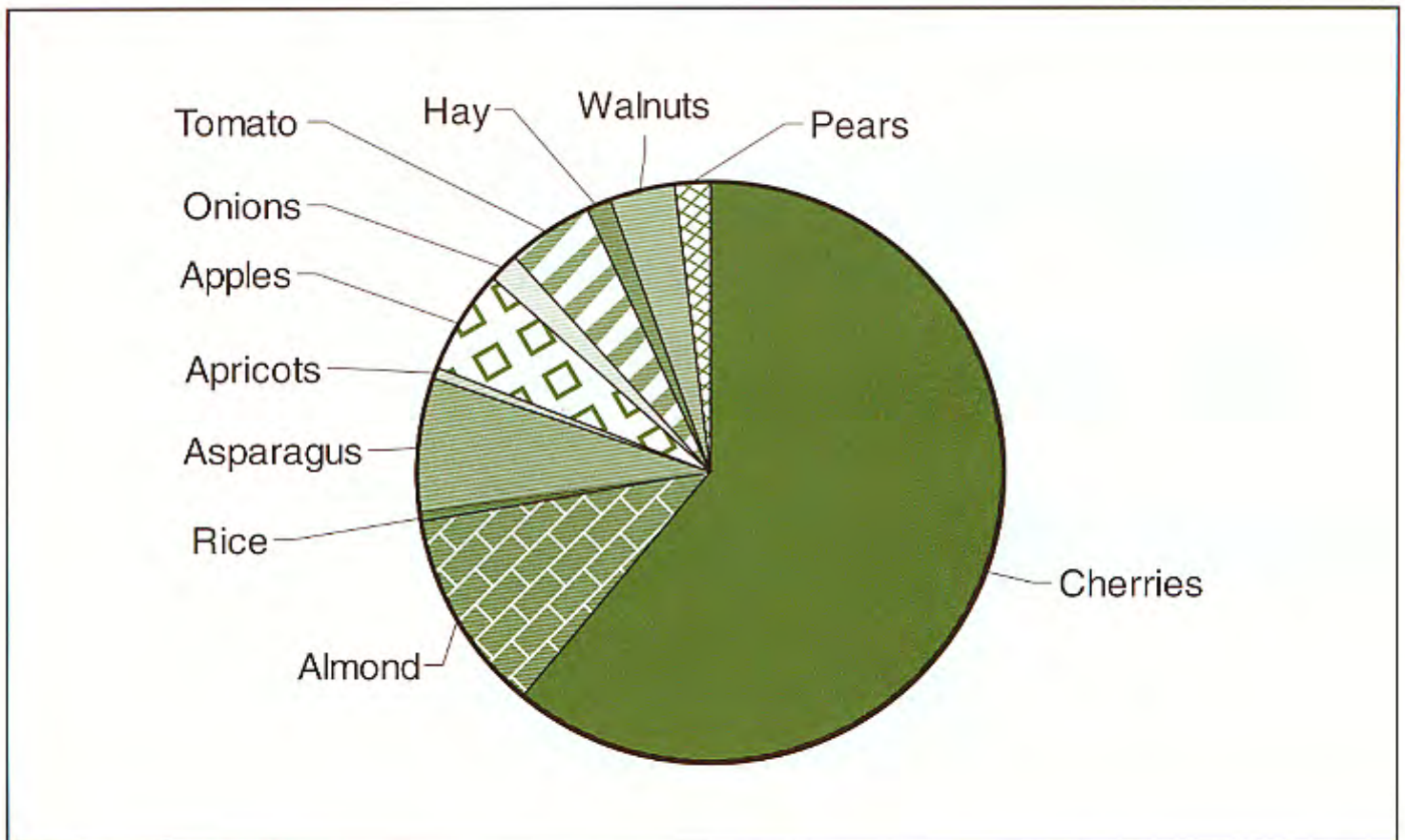
Lower yields and prices led to decreased values for cherry and grape growers in 2002.

CROP	YEAR	PRODUCTION				GROSS VALUE		
		HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	SUBTOTAL	TOTAL
ALMOND, MEATS	2002	43,900	0.93	40,800	TON	\$2,200.00		\$89,840,000
	2001	43,100	0.80	34,500	TON	\$1,780.00		\$61,406,000
ALMOND, HULLS	2002			102,100	TON	\$70.00		\$7,146,000
	2001			86,300	TON	\$77.50		\$6,684,000
APPLES, ALL	2002	5,832	9.25	54,002	TON	\$624.00		\$33,715,000
	2001	5,787	11.71	68,780	TON	\$461.00		\$31,248,000
FRESH	2002			38,342		\$847.50	\$32,495,000	
	2001			41,700		\$712.00	\$29,724,000	
PROCESSING	2002			15,660		\$77.90	\$1,220,000	
	2001			26,100		\$58.50	\$1,524,000	
APRICOTS	2002	2,300	8.80	20,200	TON	\$290.00		\$5,870,000
	2001	2,620	4.94	13,000	TON	\$242.00		\$3,129,000
CHERRIES, ALL	2002	14,500	2.22	32,200	TON	\$2,160.00		\$69,430,000
	2001	14,300	2.66	38,100	TON	\$2,600.00		\$99,135,000
FRESH	2002			26,830	TON	\$2,509.00	\$67,316,000	
	2001			32,976	TON	\$2,945.00	\$97,114,000	
PROCESSING	2002			5,366	TON	\$394.00	\$2,114,000	
	2001			5,130	TON	\$394.00	\$2,021,000	
GRAPES, ALL	2002	84,100	6.12	515,000	TON	\$414.00		\$213,220,000
	2001	84,700	6.92	586,000	TON	\$416.00		\$243,665,000
TABLE, CRUSHED	2002	1,100	6.27	6,900	TON	\$88.00	\$605,000	
	2001	1,640	8.90	14,600	TON	\$98.00	\$1,427,000	
WINE, ALL	2002	83,000	6.12	508,000	TON	\$418.53	\$212,615,000	
	2001	83,100	6.87	571,000	TON	\$424.00	\$242,238,000	
FRESH	2002			5,120	TON	\$250.00	\$1,280,000	
	2001			5,710	TON	\$259.00	\$1,477,000	
CRUSHED	2002			502,455	TON	\$420.60	\$211,335,000	
	2001			564,800	TON	\$426.00	\$240,761,000	
PEACHES, ALL	2002	2,890	19.31	55,800	TON	\$243.00		\$13,541,000
	2001	2,910	16.94	49,300	TON	\$298.00		\$14,674,000
CLINGSTONE	2002	2,100	20.70	43,500	TON	\$235.00	\$10,223,000	
	2001	2,030	20.00	40,600	TON	\$235.00	\$9,541,000	
FREESTONE	2002	788	15.60	12,290	TON	\$270.00	\$3,318,000	
	2001	876	9.90	8,670	TON	\$592.00	\$5,133,000	

FRUIT AND NUT CROPS

CROP	YEAR	PRODUCTION			GROSS VALUE		
		HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
PEARS	2002	549	19.00	10,430	TON	\$250.00	\$2,608,000
	2001	617	17.00	10,490	TON	\$230.00	\$2,413,000
WALNUTS, ENGLISH	2002	45,000	1.50	67,500	TON	\$1,120.00	\$75,600,000
	2001	41,500	1.73	71,810	TON	\$1,100.00	\$78,986,000
MISCELLANEOUS	2002	1,168					\$6,325,000
	2001	995					\$5,595,000
TOTAL	2002	200,000					\$517,295,000
	2001	197,000					\$546,935,000

Number of Agricultural Export Shipments Certified in San Joaquin County in 2002



VEGETABLE CROPS

2002 showed mixed results for growers of vegetable crops.

CROP	PRODUCTION				GROSS VALUE			
	YEAR	HARVESTED ACREAGE	PER ACRE	TOTAL UNIT	PER UNIT	SUBTOTAL	TOTAL	
ASPARAGUS	2002	19,000	1.27	24,100 TON	\$1,500.00		\$36,195,000	
	2001	22,400	1.27	28,400 TON	\$1,600.00		\$45,451,000	
CORN, SWEET	2002	3,370	7.60	25,600 TON	\$270.00		\$6,917,000	
	2001	2,690	8.54	23,000 TON	\$365.00		\$8,404,000	
CUCUMBERS	2002	2,050	9.33	19,100 TON	\$300.00		\$5,727,000	
	2001	3,520	8.29	29,200 TON	\$140.00		\$4,086,000	
MELONS, ALL	2002	3,550	21.00	74,500 TON	\$227.00		\$16,889,000	
	2001	3,870	19.80	76,700 TON	\$169.00		\$12,934,000	
WATERMELON	2002	1,470	35.00	51,600 TON	\$180.00	\$9,280,000		
	2001	1,450	31.96	46,300 TON	\$117.00	\$5,409,000		
OTHER	2002	2,080	11.04	22,900 TON	\$332.00	\$7,609,000		
	2001	2,420	12.56	30,400 TON	\$247.00	\$7,525,000		
ONIONS, DRY	2002	2,700	26.00	70,200 TON	\$240.00		\$16,848,000	
	2001	2,340	23.00	54,700 TON	\$205.00		\$11,217,000	
PEPPERS	2002	1,900	15.31	29,100 TON	\$572.00		\$16,639,000	
	2001	2,180	14.90	32,400 TON	\$290.00		\$9,421,000	
POTATOES	2002	3,150	19.70	62,000 TON	\$221.00		\$13,697,000	
	2001	4,270	16.87	72,000 TON	\$261.00		\$18,783,000	
PUMPKINS	2002	3,450	15.00	51,800 TON	\$160.00		\$8,290,000	
	2001	3,960	11.89	47,100 TON	\$146.00		\$6,857,000	
TOMATOES, ALL	2002	43,600	29.97	1,306,900 TON	\$80.00		\$105,802,000	
	2001	34,680	29.08	1,008,400 TON	\$90.00		\$90,979,000	
SHIPPING	2002	11,000	9.15	100,700 TON	\$440.00	\$44,286,000		
	2001	10,480	11.01	115,400 TON	\$406.00	\$46,866,000		
PROCESSING	2002	32,600	37.00	1,206,200 TON	\$51.00	\$61,516,000		
	2001	24,200	36.90	893,000 TON	\$49.00	\$44,113,000		
MISCELLANEOUS VEGETABLES	2002	5,490					\$19,980,000	
	2001	5,250					\$19,119,000	
TOTAL	2002	88,300					\$246,984,000	
	2001	85,200					\$227,251,000	

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

NURSERY PRODUCTS

Woody Ornamentals led the Nursery industry in 2002

ITEM	YEAR	QUANTITY SOLD BY PRODUCERS	UNIT	GROSS VALUE	
					TOTAL
GRAPEVINE, STRAWBERRY PLANTS, FRUIT & NUT TREES	2002	106,221,000	PLANT		\$5,488,000
	2001	48,838,000	PLANT		\$2,875,000
VEGETABLE PLANTS	2002	132,282,000	PLANT		\$6,544,000
	2001	195,088,000	PLANT		\$6,208,000
FLOWERING POTTED PLANTS	2002	2,346,000	EACH		\$9,519,000
	2001	2,614,000	EACH		\$9,678,000
FOLIAGE PLANTS	2002	3,893,000	EACH		\$10,737,000
	2001	6,854,000	EACH		\$16,477,000
BEDDING PLANTS	2002	1,199,000	PKG		\$4,452,000
	2001	718,000	PKG		\$4,300,000
WOODY ORNAMENTALS	2002	9,217,000	EACH		\$53,517,000
	2001	9,870,000	EACH		\$34,257,000
BULBS, RHIZOMES, TURF, CACTUS, CHRISTMAS TREES, ETC.	2002				\$28,815,000
	2001				\$25,429,000
TOTAL	2002				\$119,072,000
	2001				\$99,224,000

APIARY PRODUCTS

Greater demand for pollination and higher honey prices boosted local bee industry.

ITEM	YEAR	PRODUCTION	UNIT	PER UNIT	GROSS VALUE	
						TOTAL
HONEY	2002	326,000	LBS	\$1.25		\$407,500
	2001	301,000	LBS	\$0.65		\$195,000
BEESWAX	2002	1,953	LBS	\$1.32		\$2,600
	2001	1,804	LBS	\$1.13		\$2,000
POLLINATION	2002	186,250	HIVE	\$45.00		\$8,381,300
	2001	182,900	HIVE	\$40.80		\$7,471,000
TOTAL	2002					\$8,791,000
	2001					\$7,668,000

LIVESTOCK AND POULTRY

Lower cattle and calf prices drove total livestock values down.

ITEM	YEAR	NO. HEAD	WEIGHT	UNIT	PER UNIT	GROSS VALUE	
						SUBTOTAL	TOTAL
CATTLE & CALVES	2002	65,100	546,000	CWT	\$45.52		\$24,869,000
	2001	66,100	557,600	CWT	\$49.20		\$27,455,000
SHEEP & LAMBS	2002	14,000	16,000	CWT	\$68.00		\$1,109,000
	2001	14,300	17,160	CWT	\$71.00		\$1,218,000
BROILERS	2002	2,757,900	9,653,000	LBS	\$0.32		\$3,089,000
	2001	1,421,000	4,974,000	LBS	\$0.38		\$1,890,000
OTHER CHICKENS & SPENT HENS	2002	1,092,115		EACH	\$0.02		\$22,000
	2001	1,236,000		EACH	\$0.02		\$25,000
TURKEYS	2002	368,000	5,886,000	LBS	\$0.36		\$2,119,000
	2001	245,000	3,920,000	LBS	\$0.42		\$1,646,000
OTHER LIVESTOCK*	2002						\$6,072,000
	2001						\$7,673,000
TOTAL	2002						\$37,280,000
	2001						\$39,907,000

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

LIVESTOCK AND POULTRY PRODUCTS

Increased production of fresh market milk was offset by decreased prices.

ITEM	YEAR	PRODUCTION	UNIT	PER UNIT	GROSS VALUE	
					SUBTOTAL	TOTAL
MILK, ALL	2002	21,480,000	CWT	\$11.05		\$237,387,000
	2001	21,188,000	CWT	\$14.10		\$298,368,000
MARKET	2002	21,416,000	CWT	\$11.05	\$236,717,000	
	2001	21,050,000	CWT	\$14.10	\$296,747,000	
MANUFACTURING	2002	63,242	CWT	\$10.60	\$670,000	
	2001	138,000	CWT	\$11.70	\$1,621,000	
WOOL	2002	79,000	LBS	\$0.45		\$36,000
	2001	81,000	LBS	\$0.40		\$32,000
EGGS, CHICKEN	2002	32,500,000	DOZ	\$0.40		\$13,000,000
	2001	19,363,000	DOZ	\$0.50		\$9,682,000
MANURE	2002	378,000	TON	\$5.00		\$1,888,000
	2001	389,000	TON	\$5.00		\$1,945,000
TOTAL	2002					\$252,311,000
	2001					\$310,027,000

Interesting Facts About Woody Ornamentals

The planting of trees and shrubs results in less runoff thereby controlling erosion. This allows more recharging of the ground water supply and improved water quality. Wooded areas help prevent the transport of sediment and chemicals into streams.

The Romans used roses medicinally to cure such ailments as bite of the sea dragon, loose teeth, poison of the sea hare, hangovers, watery eyes, and to “wash molligrubs out of a moody brain”.

Trees properly placed around buildings can reduce air conditioning needs by 30 percent and can save 20 - 50 percent in energy used for heating.

Thick strips of vegetation in conjunction with land forms or solid barriers can reduce highway noise by 6-15 decibels. Plants absorb more high frequency noise than low frequency - an advantage since higher frequencies are more disturbing to people.

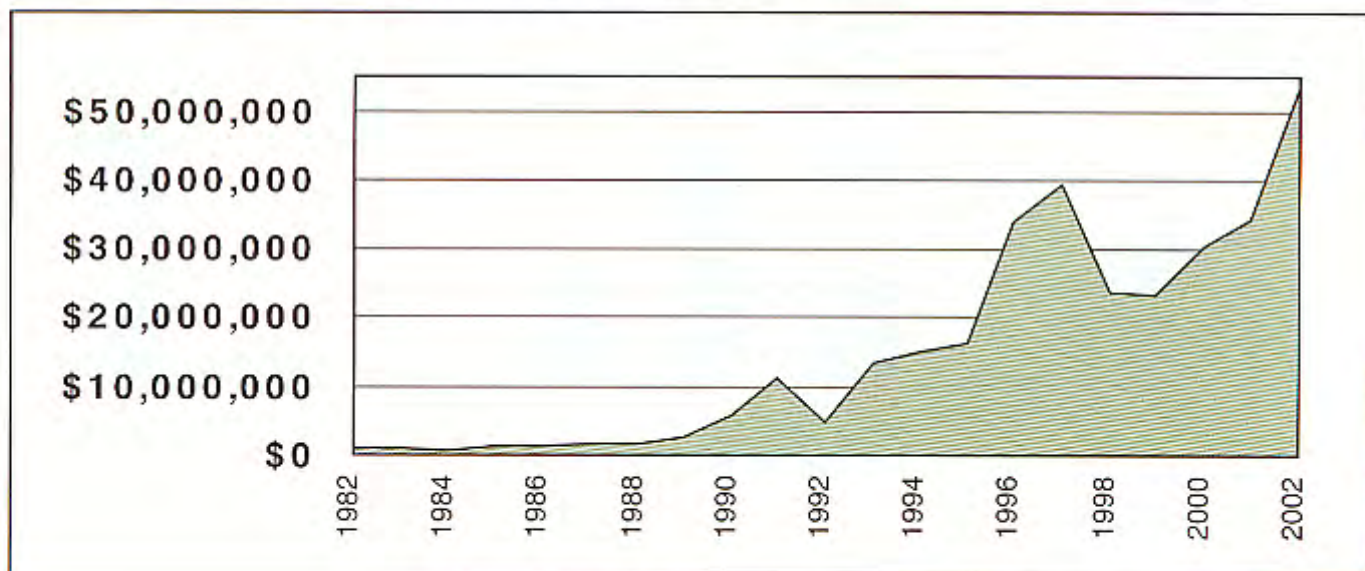
Studies show that trees can be a stimulus to economic development, attracting new businesses and tourism. Commercial retail areas are more attractive to shoppers, apartments rent more quickly, tenants stay longer, and spaces in wooded settings are more valuable to sell or rent.

Tree and shrub filled landscapes reduce stress.

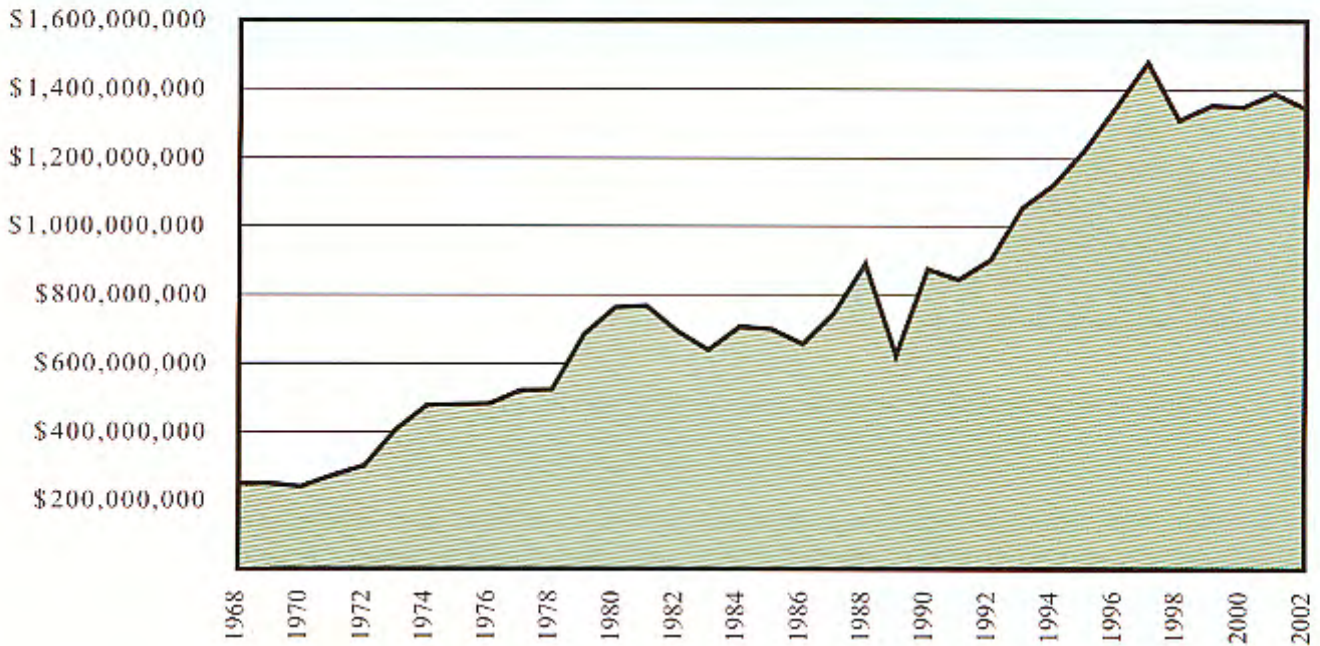
Healthy, mature trees add an average of 10 percent to property values.

100 trees can remove five tons of CO₂ and about 1,000 pounds of pollutants per year, including 400 pounds of ozone and 300 pounds of particulates.

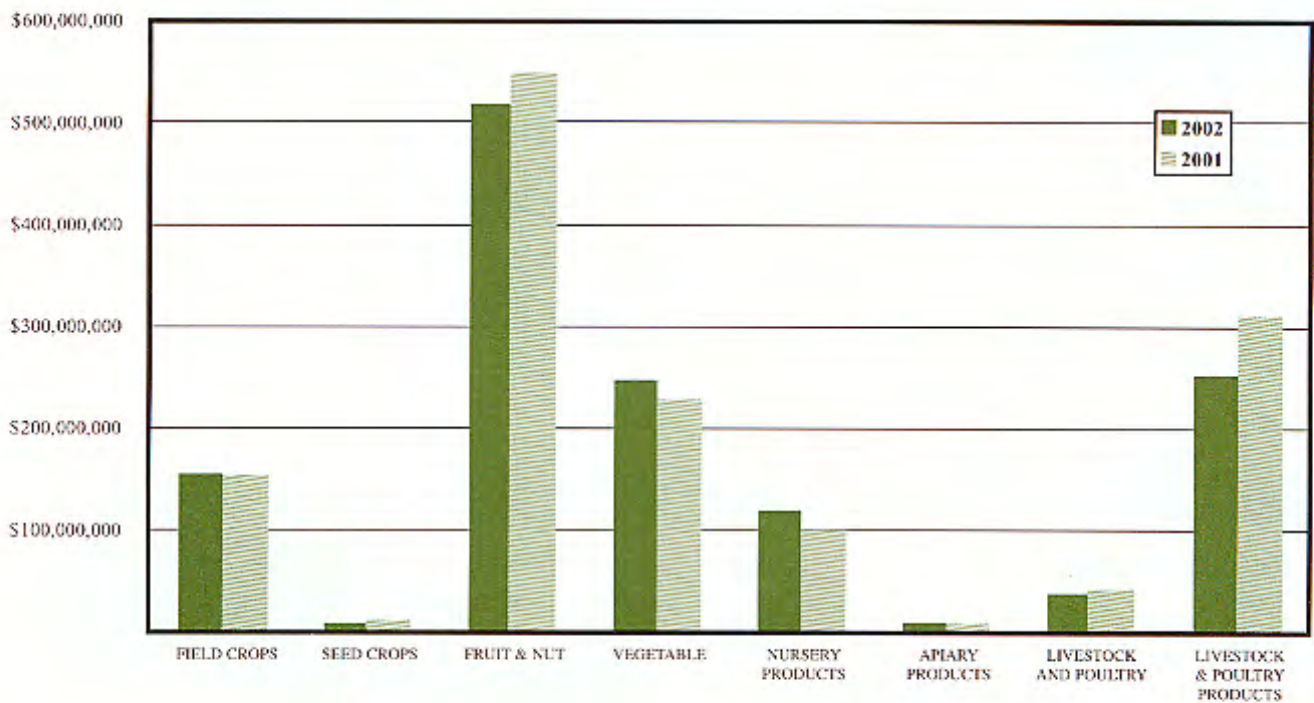
20 YEARS OF WOODY ORNAMENTAL VALUES



Yearly Values of Agricultural Commodities in San Joaquin County



Gross Values by Crop Category

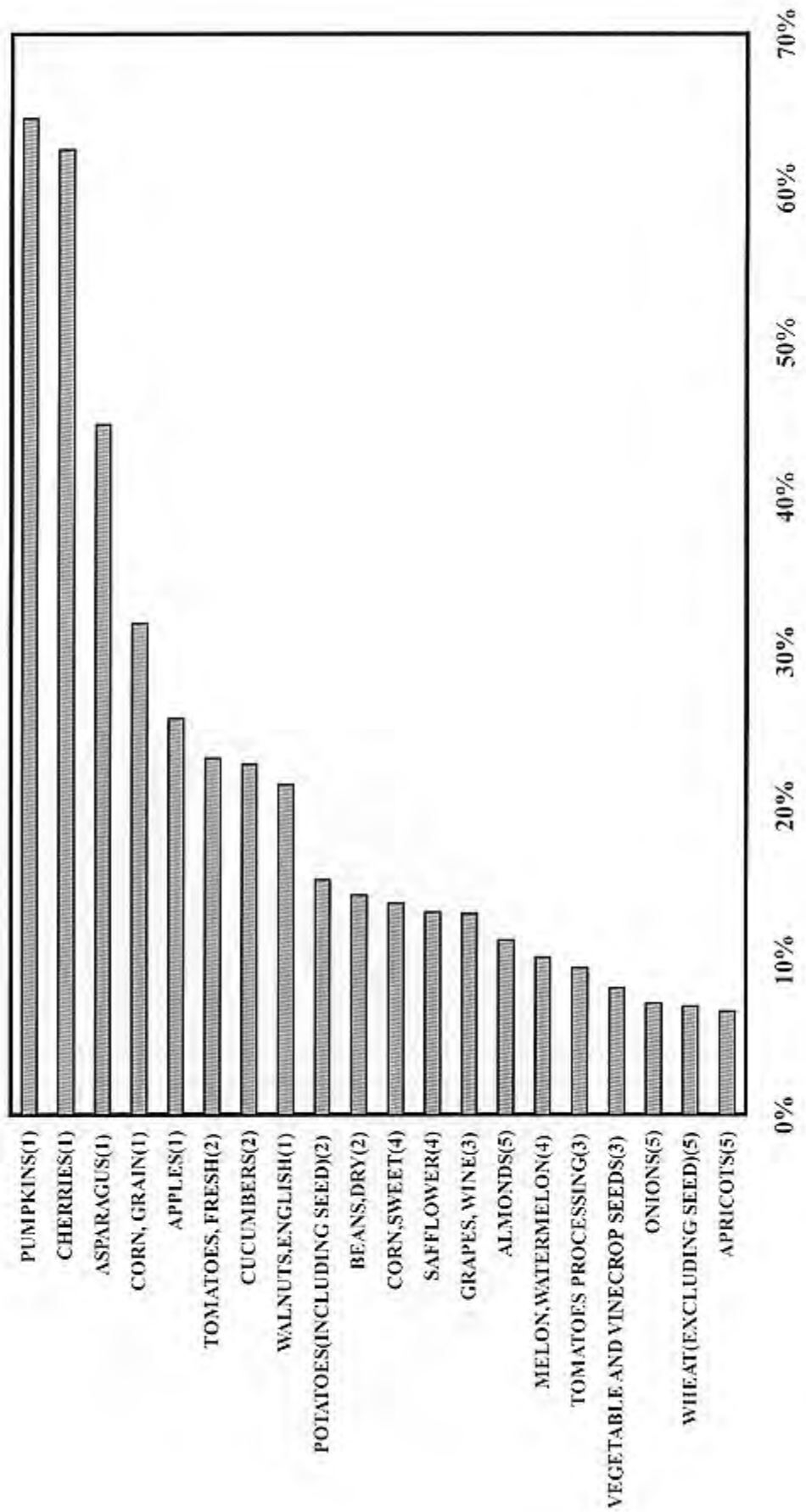


TOTAL VALUE 2001: \$1,389,307,000

TOTAL VALUE 2002: \$1,343,808,000

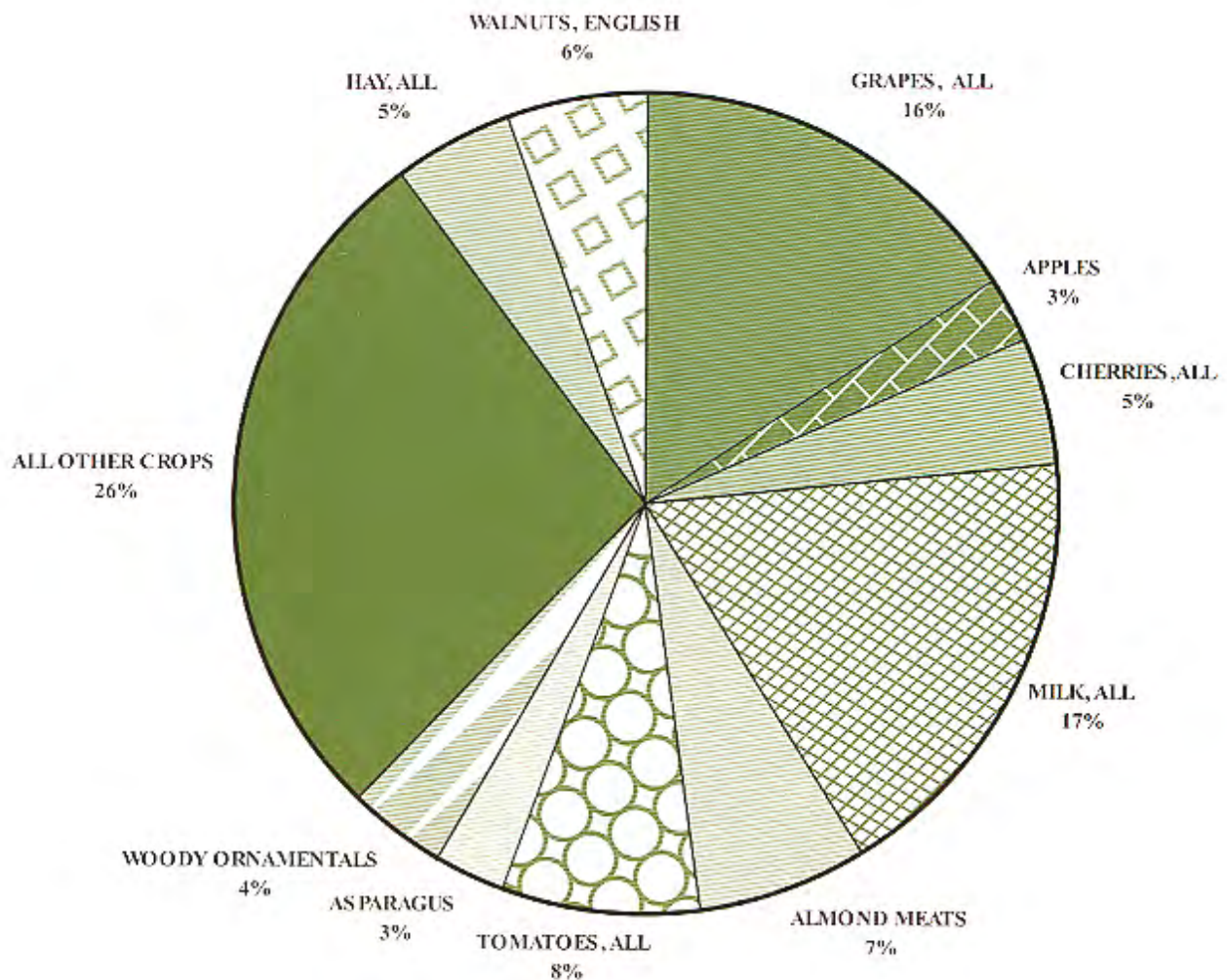
SAN JOAQUIN COUNTY'S SHARE OF STATEWIDE PRODUCTION

Listed below are the crops in which San Joaquin County ranked in the top five in the State based on gross value during the 2001 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 TOP TEN LEADING CROPS

MILK, ALL	\$237,387,000
GRAPES, ALL	\$213,220,000
TOMATOES, ALL	\$105,802,000
ALMOND MEATS	\$89,840,000
WALNUTS, ENGLISH	\$75,600,000
CHERRIES, ALL	\$69,430,000
HAY, ALL	\$63,644,000
WOODY ORNAMENTALS	\$53,517,000
ASPARAGUS	\$36,195,000
APPLES	\$33,715,000
ALL OTHER CROPS	\$370,609,000



San Joaquin County's 2002 Sustainable Agriculture Programs

Insect Trapping Program

To protect our agricultural resources from non native insects, San Joaquin County maintains a Detection Trapping Program. In 2002, this program deployed over 6,500 traps. The majority of these traps were targeted for the **Glassy Winged Sharpshooter**. Additionally, over 1,400 traps were utilized for the detection of various fruit flies. These included the **Mediterranean Fruit Fly** and **Oriental Fruit Fly** among others. A few of the other pests that county biologists watch for are **Gypsy Moth**, **Japanese Beetle**, **Khapra Beetle**, and **European Corn Borer**.

Biological Control Organisms for:

Weed pests – 17 different insects were enlisted to aid in the battle against 9 different weed pests. **Yellow Star Thistle** is one of the county's most invasive weeds, and there are 4 different insects working to control it. Other weeds currently targeted for biocontrol are **Puncture Vine**, **Water Hyacinth** and various **Thistle** species.

Insect pests – **Ladybird Beetles**, *Clitostethus arcuatus*, are well known for their insatiable appetite. **Aphids** and **Scale insects** are on the top of the menu. Her cousin the **Asiatic Ladybird Beetle**, *Harmonia axyridis*, has been here many years helping to control local pests. Other predators employed in the fight are the **Vedalia Beetle**, *Rodalia cardinalis*, **Encarsia Wasp**, *Encarsia partenopea*, a **Parasitic Fly** *Cryptochaetum iceryae*, 2 species of **Predator Mites**, *Galendromus* and *Phytoseiulus spp.*, and a **Nematode**, *Steinernema feltiae*, that attacks fungus gnats.

Vertebrate pests – **Owls** are predators of many nocturnal vertebrate pests, especially **gophers**, **voles** and **mice**. The easiest way to introduce owls to an area is to provide habitat for them. Owl boxes have proven to be the best way to do this. Plans to build these owl boxes are distributed for free by the **Lodi-Woodbridge Winegrape Commission**. Plans are also available at any **San Joaquin County Agricultural office**. It is estimated that around 1,000 Owl boxes have been built and deployed by property owners around the county.

Quarantine Interceptions

In an effort to stop smuggled or hitchhiking pests from entering our county, the Agricultural Commissioner's Office conducts inspections at the Post Office, UPS and express mail carriers in San Joaquin County. Shipments by truck, rail and ship are also inspected when they are deemed to pose a pest risk. In 2002 San Joaquin County biologists intercepted 214 "A" and "Q" rated pests through quarantine inspections. These interceptions included **Red Imported Fire Ant**, *Solenopsis invicta*. The most commonly rejected pest was **Lesser Snow Scale**, *Pinnaspis strachani*.

Punagrass Eradication Project

Punagrass, *Acnatherum brachychaetum*, is a tough, unpalatable weed of pastures and hay crops. Localized infestations of this noxious weed occur in the Tracy/Banta area. This native of South America forms large tough clumps that outcompete our native plants. Manual removal of mature plants has proven to be the most effective method of control. In 2002 over 7,500 plants were dug up by hand, a number down from over 24,000 plants in 1999. Four fields previously infested with punagrass received '**eradicated**' status in 2002.

Organic Commodities

San Joaquin County has 19 registered growers of organic commodities. These growers farmed 850 acres to produce 2.1 million dollars worth of organic meat, milk, nuts, fruit and vegetables. San Joaquin County organic producers are registered to grow over 30 different commodities. The 2002 organic **cherry** crop was the most valuable at over \$365,000. Organic **cattle** were a close second at \$345,000.

San Joaquin County Trading Partners 2002

Afghanistan	Germany	Panama
Argentina	Greece	People's Republic of China
Australia	Guatemala	Peru
Bahrain	Guyana	Philippines
Bangladesh	Haiti	Portugal
Belgium	Holland	Republic of Korea
Bolivia	Honduras	South Africa
Bosnia	Hong Kong	Trinidad and Tobago
Brazil	India	Republic of Uzbekistan
Bulgaria	Indonesia	Romania
Canada	Israel	Russian Federation
Canary Islands	Italy	Saudi Arabia
Chile	Jamaica	Singapore
Colombia	Japan	Solomon Islands
Congo	Jordan	Spain
Costa Rica	Kuwait	Sweden
Croatia	Latvia	Switzerland
Cyprus	Lebanon	Taiwan
Czech Republic	Lithuania	Thailand
Denmark	Malawi	Tunisia
Dominican Republic	Malaysia	Turkey
East Timor	Malta	United Arab Emirates
Ecuador	Marshall Islands	United Kingdom
Egypt	Mexico	Uruguay
El Salvador	Mongolia	Venezuela
Equator	Netherlands	Vietnam
Estonia	New Guinea	Zambia
Fiji	New Zealand	
France	Nicaragua	
French Polynesia	Norway	



GENERAL SAN JOAQUIN COUNTY INFORMATION

COUNTY SEAT	STOCKTON		
COUNTY POPULATION (2002)	596,000		
POPULATION PER SQUARE MILE	425		
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	EAST COUNTY	12 INCHES
SOUTH COUNTY	14 INCHES	WEST COUNTY	9 INCHES

A SPECIAL "THANK YOU"

The San Joaquin County Agricultural Commissioner's Office expresses its deep appreciation to the



and



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