



Homer, the legendary Greek epic poet, called olive oil "liquid gold" and for good reason because olive oil was more than mere food to the ancient peoples of the Mediterranean region. It was medicinal, used in religious ceremonies, and signified great wealth and power. Olive branches, a symbol of abundance, glory and peace, crowned the victorious in games and wars.

The olive, a native to Asia Minor, spread from Iran, Syria, Palestine, and to the rest of the Mediterranean basin 6,000 years ago. Olive cultivation is one of man's first agricultural developments. Olives first arrived in California from Mexico during the late 1700s as seeds or seedlings and were planted in each of the 21 missions by Spanish missionaries. A thriving olive oil industry was established by the mid 19th century. However, the 20th century saw little growth in the industry until a health-conscious American population rediscovered the healthy benefits and flavor of olive oil in recent years.

California produces the majority of olive oil made in the U.S. but only about 1% of the olive oil consumed in this country comes from California. Even though the U.S. is the world's fourth-largest consumer of olive oil, we only annually consume an average of 25 ounces of olive oil per person. As a comparison, in Greece, each person annually consumes an average of 32 to 35 bottles of olive oil. Needless to say, this leaves a tremendous amount of growth potential in the United States.

Until recently, olive harvest was done almost exclusively by hand at an average cost of \$300 per ton or about ½ of the grower's total production cost. In recent years, the new super high density growing and harvesting system has cut production costs to about \$50 per ton. Under this system, dwarf olive varieties are planted five feet apart and thirteen feet between rows. The three primary olive varieties used for high density plantings are Arbequina (78%), Arbosana (16%), and Koroneiki (6%). The trees are then trained to grow on trellises and trimmed at a height of seven feet. Harvesting is done mechanically by a modified grape harvester during the fall.

Almost all of the olives grown in the U.S. come from California. However, only 2% or 21,000 acres of California's total olive acreage is for oil production. San Joaquin County ranks second in the state in the number of acres planted to olive oil producing trees (35% of state total). Through the next decade, it is estimated that approximately 10,000 trees each year will be added to California's olive orchards.

The olive industry in San Joaquin County is a growing market. The number of olive oil producers is increasing with several growers investing in their own oil presses. Some local growers are specializing in boutique style establishments with varied flavors of olive oil available. Local wineries are increasingly offering olive oil at their tasting facilities. Gold once again is flowing in California!

SAN JOAQUIN COUNTY AGRICULTURAL COMMISSIONER'S OFFICE

2009 ANNUAL CROP REPORT

Scott Hudson Agricultural Commissioner/Sealer

Compiled By Rick Schwieger

BOARD OF SUPERVISORS

Carlos Villapudua, Chairman	District 1
Larry Ruhstaller, Vice-Chairman	District 2
Steve J Bestolarides	District 3
Ken Vogel	District 4
Leroy Ornellas	District 5

Manuel Lopez County Administrator

AGRICULTURAL COMMISSIONER/SEALER SCOTT HUDSON

ASSISTANT AGRICULTURAL COMMISSIONER/SEALER GARY STOCKEL

Martin Brockman Barbara Huecksteadt Don McCoon, Jr. Tom Reed

Nancy Barger
Scott Barnes
Colleen Bednarek
Humberto Castro
Tom Dawson
Steve Dinardi
Tom Doud
Kim Martin
Maria Martin
Raung Long
Rand Medina
Rick Schwieger
Robert Pelletier
Ted Viss
Thomas Watkins

Ferdinand Pura

Sue Williamson

Mary Jo Avagliano
Jo Aring-Tengonciang
Hazel Gallego
Carol Giuffre
Share Hawkins
Hiromi Hernandez
Cynthia King
Terry King
Jamise Miller
Laura Rocha

Deputy Agricultural Commissioner Deputy Agricultural Commissioner Deputy Agricultural Commissioner Deputy Agricultural Commissioner

Agricultural Biologist II, Simms Station Senior Agricultural Biologist Senior Agricultural Biologist Agricultural Biologist II, Simms Station Agricultural Biologist II, Simms Station Senior Agricultural Biologist, Lodi Senior Agricultural Biologist Agricultural Biologist I Agricultural Biologist II Agricultural Biologist II, Lodi Agricultural Biologist II, Lodi Agricultural Biologist II Senior Agricultural Biologist I Senior Agricultural Biologist Senior Agricultural Biologist

Department Information Systems Analyst I

Administrative Secretary Senior Office Assistant, Lodi Office Assistant Specialist Senior Office Assistant Accounting Technician I Senior Office Assistant Accounting Technician II Senior Office Assistant

Senior Agricultural Biologist

Senior Agricultural Biologist

Senior Office Assistant, Simms Station

All staff are based in Stockton unless otherwise noted.



SAN JOAQUIN COUNTY

OFFICE OF THE

AGRICULTURAL COMMISSIONER

MAIN OFFICE 2101 E. EARHART AVENUE, Suite 100 STOCKTON, CALIFORNIA 95206-3924 PHONE: (209) 953-6000 FAX: (209) 953-6022 SCOTT HUDSON AGRICULTURAL COMMISSIONER SEALER OF WEIGHTS AND MEASURES ANIMAL CONTROL

GARY STOCKEL
ASST. AGRICULTURAL COMMISSIONER
ASST. SEALER OF WEIGHTS AND MEASURES

LODI OFFICE 210 N. SACRAMENTO ST. (209) 331-7287

SIMMS STATION - RIPON 17620 E. HWY 120 (209) 838-2276

A.G. KAWAMURA, 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 seventy-sixth annual report of Agricultural Production in San Joaquin County.

The gross value of production for 2009 is estimated to be \$2,000,474,000. This represents a 6.49% decrease from 2008's all time high production of \$2,129,725,000.

Some highlights of the 2009 crop year production are:

- Historically, milk production is San Joaquin County's leading commodity. In 2009, because of low milk prices, grape values surpassed milk and grapes became the County's leading commodity.
- Field crops had a large decrease in values. Factors contributing were a large drop in hay and corn prices caused by a decrease in the number of dairy cows and beef cattle in the County.
- Seed crop production is down. Asparagus seed crops were down by half due to adverse weather condition during the growing season.
- Vegetable crops had a large increase in production, up 32.9%. This is largely attributed to increases in asparagus and sweet corn crops.
- Livestock prices were down. Cattle and calves prices were down 33.8%. A positive note is an increase in the County's turkey production.
- Nursery Stock numbers continue to decline. The continual decline in housing starts, decreased home purchases, and the ongoing economic conditions attributed to lower values.

The values shown are estimates based on the most common method of sale for the individual commodity, except for fresh fruits and vegetable 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 return to the grower.

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/Sealer

FIELD CROPS

		PI HARVESTED	RODUCTION				GROSS VALUE	
CROP	YEAR	ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	SUBTO TAL	TOTAL
BEANS, DRY, ALL	2009	9,304	0.87	8,100	TON	\$1,009.00		\$8,172,000
, ,	2008	6,300	1.38	8,700	TON	\$989.00		\$8,608,000
LIMA	2009	4,900	1.20	5,900	TON	\$1,083.00	\$6,390,000	
	2008	4,300	1.40	6,000	TON	\$1,000.00	\$6,000,000	
BEANS, OTHER*	2009	2,880	0.78	2,246	TON	\$1,033.00	\$1,782,000	
	2008	1,980	1.37	2,713	TON	\$962.00	\$2,608,888	
CORN, GRAIN	2009	48,100	5.19	250,000	TON	\$177.00		\$44,250,000
	2008	71,800	5.18	372,000	TON	\$187.00		\$69,564,000
HAY, ALL	2009	95,000	6.20	589,000	TON	\$113.00		\$66,498,000
	2008	97,000	5.93	575,000	TON	\$190.00		\$108,970,000
ALFALFA	2009	68,300	6.82	466,000	TON	\$120.00	\$55,920,000	
	2008	68,500	6.90	473,000	TON	\$201.00	\$95,073,000	
OTHER	2009	26,700	4.61	123,000	TON	\$86.00	\$10,578,000	
	2008	28,500	3.30	93,900	TON	\$148.00	\$13,897,000	
PASTURE & RANGE	2009	134,500			ACRE	\$45.00		\$5,993,000
	2008	134,500			ACRE	\$37.00		\$5,033,000
IRRIGATED	2009	14,500			ACRE	\$165.00	\$2,393,000	
	2008	14,500			ACRE	\$165.00	\$2,393,000	
OTHER	2009	120,000			ACRE	\$30.00	\$3,600,000	
	2008	120,000			ACRE	\$22.00	\$2,640,000	
RICE	2009	5,830	3.90	22,700	TON	\$334.00		\$7,582,000
	2008	5,320	4.21	21,800	TON	\$300.00		\$6,540,000
SAFFLOWER	2009	3,060	1.50	4,590	TON	\$325.00		\$1,492,000
	2008	5,520	1.40	7,730	TON	\$500.00		\$3,865,000
SILAGE, CORN	2009	35,500	26.37	936,000	TON	\$24.00		\$22,464,000
	2008	40,500	27.77	1,125,000	TON	\$37.00		\$41,625,000
SILAGE, OTHER	2009	76,600	6.52	499,000	TON	\$37.00		\$18,463,000
NCLUDES GREEN CHOP	2008	82,200	5.86	482,000	TON	\$44.00		\$21,208,000
WHEAT	2009	30,700	2.93	90,100	TON	\$223.00		\$20,125,000
	2008	31,300	2.80	87,700	TON	\$218.00		\$19,148,000
OTHER	2009	94,900						\$7,833,000
	2008	123,300						\$10,192,000
OTAL	2009	533,000						\$202,872,000
	2008	598,000						\$294,753,000

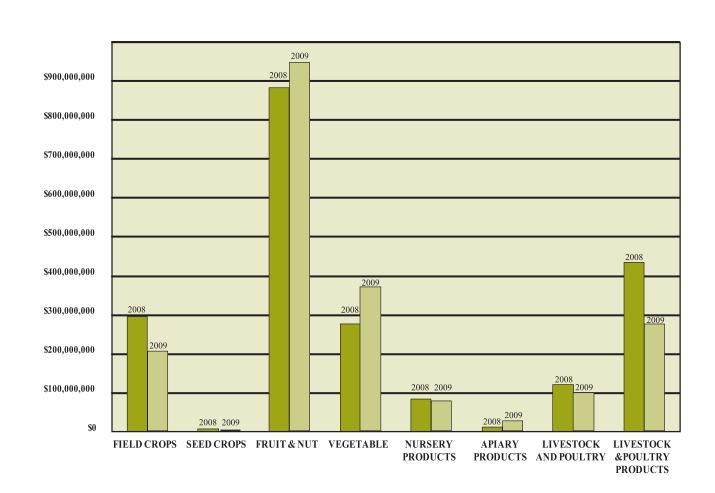
NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING *BEANS OTHER WILL NOW INCLUDE BLACKEYE, KIDNEY, GARBANZO AND ALL OTHER BEANS NOT LISTED

SEED CROPS

		PR HARVESTED	ODUCTION			GROS	SS VALUE
CROP	YEAR	ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
KIDNEY BEAN	2009	507	17.40	8,800	CWT	\$46.00	\$405,000
	2008	205	27.80	5,700	CWT	\$45.00	\$257,000
BEANS, OTHER	2009	423	20.02	8,470	CWT	\$44.00	\$376,572
	2008	55	27.23	1,500	CWT	\$60.00	\$90,000
VEGETABLE SEED	2009	471					\$3,666,000
	2008	426					\$6,331,000
MISCELLANEOUS	2009	1,190					\$365,000
	2008	350					\$52,000
TOTAL	2009	2,591					\$4,812,572
	2008	1,036					\$6,730,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

COMPARISON OF VALUES FOR EACH CROP COMMODITY



FRUIT AND NUT CROPS

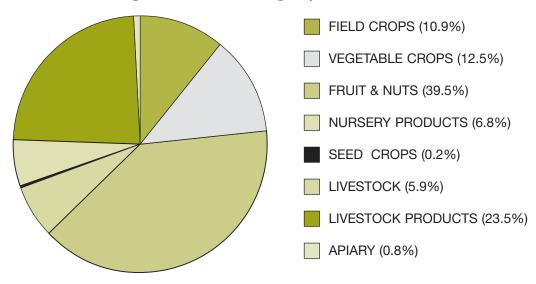
		PRO BEARING	ODUCTION			GROSS VALUI	E	
CROP	YEAR	ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	SUBTOTAL	TOTAL
ALMO ND, MEATS	2009	47,800	0.99	47,300	TON	\$2,840.00		\$134,332,000
,	2008	47,500	1.23	58,400	TON	\$3,000.00		\$175,200,000
ALMO ND, HULLS	2009			106,400	TON	\$104.00		\$11,066,000
	2008			131,400	TON	\$135.00		\$17,739,000
APPLES, ALL	2009	2,900	25.63	74,334	TON	\$632.00		\$54,469,000
	2008	3,030	25.48	77,200	TON	\$634.00		\$48,455,000
FRESH	2009			49,556	TON	\$953.66	\$47,260,000	
TRESTI	2008			51,478	TON	\$812.27	\$41,814,000	
	2000			51,170	1011	ψ 012.2 7	\$11,011,000	
PROCESSING	2009			24,778	TON	\$290.93	\$7,209,000	
	2008			25,739	TON	\$257.69	\$6,633,000	
APRICOTS	2009	624	13.13	8,200	TON	\$336.00		\$2,755,000
	2008	625	12.47	7,800	TON	\$325.00		\$2,535,000
	• • • •		• • •					*** ***
BLUEBERRIES	2009	1,313	3.98	5,226	TON	\$5,873.87		\$30,695,000
	2008	1,070	4.20	4,500	TON	\$5,480.00		\$24,660,000
CHERRIES, ALL	2009	17,853	2.84	50,727	TON	\$4,194.00		\$212,735,000
,	2008	17,700	2.98	52,642	TON	\$3,342.00		\$175,922,000
		,		,		,		
FRESH	2009			50,700	TON	\$4,084.00	\$207,059,000	
	2008			43,900	TON	\$3,890.00	\$170,771,000	
PROCESSING	2009			9,200	TON	\$617.00	\$5,676,000	
	2008			8,760	TON	\$544.00	\$5,151,000	
GRAPES, ALL	2009	91,800	7.42	681,000	TON	\$418.00		\$284,981,000
O1011 20,1122	2008	90,000	5.28	475,000	TON	\$467.00		\$221,807,000
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				,		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
TABLE, CRUSHED	2009	251	5.62	1,410	TON	\$184.00	\$259,000	
	2008	201	5.27	1,060	TON	\$201.00	\$213,000	
WIND ATT	2000	01 500	7.43	670 000	TOM	¢ / 1 0 0 0	6304 733 000	
WINE, ALL	2009	91,500	7.42	679,000	TON	\$419.00	\$284,722,000	
	2008	89,800	5.28	474,000	TON	\$468.00	\$221,595,000	
FRESH	2009			4,310	TON	\$289.00	\$1,246,000	
	2008			4,310	TON	\$289.00	\$1,246,000	
CRUSHED	2009			675,000	TON	\$420.00	\$283,500,000	
	2008			469,000	TON	\$470.00	\$220,430,000	

FRUIT AND NUT CROPS

		PRO BEARING	ODUCTION		(GROSS VALUE	E	
CROP	YEAR	ACREAGE	PER ACRE	TO TAL	UNIT	PER UNIT	SUBTO TAL	TO TAL
OLIVES, PROCESSING	2009 2008	3,585 3,300	4.30 4.20	15,416 13,900	TON TON	\$475.00 \$700.00		\$7,322,000 \$9,730,000
PEACHES, ALL	2009 2008	2,140 2,260	21.82 25.18	46,700 56,900	TO N TO N	\$292.00 \$289.00		\$13,617,000 \$16,424,000
CLINGSTONE	2009 2008	980 1,040	18.30 22.90	17,900 23,800	TO N TO N	\$315.00 \$316.00	\$5,639,000 \$7,521,000	
FREESTONE	2009 2008	1,160 1,220	24.79 27.11	28,800 33,100	TO N TO N	\$277.00 \$269.00	\$7,978,000 \$8,904,000	
PEARS	2009 2008	489 488	18.00 20.00	8,800 9,760	TO N TO N	\$287.50 \$250.00		\$2,530,000 \$2,440,000
WALNUTS, ENGLISH	2009 2008	48,700 45,500	1.96 2.30	95,500 105,000	TO N TO N	\$1,681.00 \$1,700.00		\$160,536,000 \$178,500,000
MIS C ELLANEO US	2009 2008	730 710						\$35,684,000 \$19,745,000
BIOMASS	2009 2008							\$282,000 \$328,000
TOTAL	2009 2008	213,000 208,000						\$951,004,000 \$893,485,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

Percentage of Each Category to Total



VEGETABLE CROPS

			RODUCTION				GROSS VALUE	
CDOD	MEAD	HARVESTED ACREAGE	DED ACDE	TOTAL	LINIT	DED LINIT	CHDTOTAL	TOTAL
CROP	YEAR		PER ACRE	TOTAL	UNIT	PER UNIT	SUBTO TAL	TO TAL
ASPARAGUS	2009	7,400	2.77	20,600	TON	\$2,530.00		\$52,118,000
	2008	9,400	1.52	14,300	TON	\$2,320.00		\$36,322,000
CORN, SWEET	2009	3,290	7.26	26,400	TON	\$598.00		\$15,787,000
	2008	2,780	5.04	14,000	TON	\$218.00		\$3,052,000
CUCUMBERS	2009	1,080	9.93	10,700	TON	\$190.00		\$2,033,000
	2008	1,630	7.79	12,700	TON	\$170.00		\$2,159,000
MELONS, ALL	2009	1,520	34.28	52,100	TON	\$239.00		\$12,475,000
	2008	2,370	36.62	86,800	TON	\$261.00		\$22,626,000
WATERMELON	2009	1,460	35.00	51,100	TON	\$239.00	\$12,213,000	
	2008	2,330	37.00	86,200	TON	\$260.00	\$22,412,000	
OTHER	2009	60	16.25	975	TON	\$269.00	\$262,000	
	2008	40	15.67	627	TON	\$342.00	\$214,000	
ONIONS, DRY	2009	1,710	22.50	38,500	TON	\$311.00		\$11,974,000
,	2008	2,090	14.53	30,400	TO N	\$208.00		\$6,323,000
PEPPERS	2009	1,310	29.72	38,900	TO N	\$562.00		\$21,862,000
	2008	1,140	25.80	29,400	TON	\$441.00		\$12,965,000
POTATOES	2009	2,600	17.86	45,700	TON	\$519.00		\$23,718,000
	2008	2,300	16.50	37,700	TON	\$640.00		\$24,128,000
OLIM PRIZINIC	2000	2.400	17.01	77 000	TO N	#20F 00		015 (55 000
PUMPKINS	2009	3,480	15.81	55,000	TON	\$285.00		\$15,675,000
	2008	3,110	14.60	45,400	TON	\$240.00		\$10,896,000
TOMATOES, ALL	2009	45,500	35.43	1,612,000	TON	\$125.00		\$201,528,00
	2008	40,700	36.04	1,467,000	TON	\$99.00		\$145,506,00
SHIPPING	2009	6,730	26.15	176,000	TON	\$476.00	\$83,776,000	
	2008	7,500	16.25	122,000	TON	\$443.00	\$54,046,000	
PROCESSING	2009	38,800	37.00	1,436,000	TON	\$82.00	\$117,752,000	
	2008	33,200	40.50	1,345,000	TON	\$68.00	\$91,460,000	
MISCELLANEO US	2009	4,690						\$11,157,000
/EGETABLES	2008	3,380						\$13,159,000
OTAL	2009	72,600						\$368,327,00
	2008	68,900						\$277,136,00

NURSERY PRODUCTS

				GROSS VALUE
ITEM	YEAR	QUANTITY SOLD	UNIT	TOTAL
GRAPEVINES, STRAWBERRY PLANTS,	2009	70,170,000	PLANT	\$6,895,000
FRUIT & NUT TREES	2008	78,465,000	PLANT	\$6,959,000
VEGETABLE PLANTS	2009	363,423,000	PLANT	\$15,736,000
	2008	314,848,000	PLANT	\$12,487,000
FLOWERING POTTED PLANTS	2009	486,000	EACH	\$1,622,000
	2008	304,000	EACH	\$1,147,000
FOLLA CE DI ANTO	2000	1 124 000	Even	02.072.000
FO LIAGE PLANTS	2009	1,124,000	EACH	\$3,863,000
	2008	2,078,000	EACH	\$4,791,000
BEDDING PLANTS	2009	226,290,000	PLANT	\$13,594,000
DEDUTING I LANIS	2008	225,363,000	PLANT	\$13,323,000
	2000	223,303,000	ILANI	\$13,323,000
WOODY ORNAMENTALS	2009	5,268,000	EACH	\$21,969,000
	2008	6,110,000	EACH	\$29,756,000
				, ,
BULBS, RHIZOMES, TURF,	2009			\$12,165,000
CACTUS, CHRISTMAS TREES, ETC.	2008			\$17,076,000
TOTAL	2009			\$75,844,000
	2008			\$85,539,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

APIARY PRODUCTS

				GROS	SS VALUE
ITEM	YEAR	PRODUCTION	UNIT	PER UNIT	TO TAL
HONEY	2009	177,000	LBS	\$1.15	\$203,000
	2008	124,000	LBS	\$0.83	\$103,000
POLLINATION	2009	187,700	HIVE	\$116.00	\$21,687,000
	2008	131,900	HIVE	\$115.00	\$15,181,000
OTHER APIARY*	2009				\$3,169,000
	2008				\$506,000
TOTAL	2009				\$25,059,000
	2008				\$15,790,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING *OTHER APIARY INCLUDES POLLEN, BEES, QUEENS, NUCLEUS COLONIES & BEESWAX

LIVESTOCK AND POULTRY

					GRO	SS VALUE
ITEM	YEAR	NO. HEAD	LIVE WEIGHT	UNIT	PER UNIT	TOTAL
CATTLE & CALVES	2009	139,000	1,031,000	CWT	\$63.00	\$64,711,000
	2008	130,000	959,000	CWT	\$102.00	\$97,788,000
SHEEP & LAMBS	2009	12,700	16,000	CWT	\$93.00	\$1,490,000
	2008	10,200	13,000	CWT	\$70.00	\$904,000
BROILERS	2009	2,095,000	11,564,400	LBS	\$0.66	\$7,599,838
	2008	1,867,000	10,829,000	LBS	\$0.41	\$4,471,011
TURKEYS	2009	468,000	15,792,000	LBS	\$0.66	\$10,422,000
	2008	253,000	4,704,000	LBS	\$0.71	\$3,324,000
OTHER LIVESTOCK**	2009					\$14,125,000
	2007					\$14,060,000
TOTAL	2009					\$98,348,000
TOTAL	2008					\$120,547,000
	2000					\$120,5 1 7,000

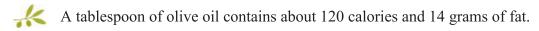
^{**}OTHER LIVESTOCK INCLUDES HOGS, GOATS, SQUAB, DUCKS, AND OTHER FOWL

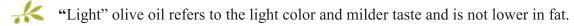
LIVESTOCK AND POULTRY PRODUCTS

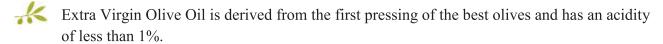
				GROSS VAL	LUE
YEAR	PRODUCTION	UNIT	PER UNIT	SUBTOTAL	TO TAL
2009	22,152,000	CWT	\$12.00		\$257,715,000
2008	24,604,000	CWT	\$17.00		\$412,643,000
2009	21,159,000	CWT	\$12.00	\$245,652,000	
2008	24,588,000	CWT	\$17.00	\$412,344,000	
2009	993,000	CWT	\$12.00	\$11,916,000	
2008	16,000	CWT	\$19.00	\$304,000	
2009	68,000	LBS	\$0.93		\$62,000
2008	62,000	LBS	\$1.02		\$63,000
			*		\$15,773,000
2008	26,127,000	DOZ	\$0.87		\$22,664,000
2000	5(4,000	TON	61.00		0/57 000
					\$657,000
2008	407,000	ION	\$1.00		\$355,000
2009					\$274,207,000
2008					\$435,725,000
	2009 2008 2009 2008 2009 2008 2009 2008 2009 2008 2009 2008	2009 22,152,000 2008 24,604,000 2009 21,159,000 2008 24,588,000 2009 993,000 2008 16,000 2009 68,000 2009 62,000 2009 21,907,000 2008 26,127,000 2009 564,000 2009 407,000	2009 22,152,000 CWT 2008 24,604,000 CWT 2009 21,159,000 CWT 2008 24,588,000 CWT 2009 993,000 CWT 2008 16,000 CWT 2009 68,000 LBS 2008 62,000 LBS 2009 21,907,000 DOZ 2008 26,127,000 DOZ 2009 564,000 TON 2008 407,000 TON 2009 5000 TON	2009 22,152,000 CWT \$12.00 2008 24,604,000 CWT \$17.00 2009 21,159,000 CWT \$12.00 2008 24,588,000 CWT \$17.00 2009 993,000 CWT \$12.00 2008 16,000 CWT \$19.00 2009 68,000 LBS \$0.93 2008 62,000 LBS \$1.02 2009 21,907,000 DOZ \$0.72 2008 26,127,000 DOZ \$0.87 2009 564,000 TON \$1.00 2008 407,000 TON \$1.00 2009 50,000 TON \$1.00	2009 22,152,000 CWT \$12.00 2008 24,604,000 CWT \$17.00 2009 21,159,000 CWT \$12.00 \$245,652,000 2008 24,588,000 CWT \$17.00 \$412,344,000 2009 993,000 CWT \$12.00 \$11,916,000 2008 16,000 CWT \$19.00 \$304,000 2009 68,000 LBS \$0.93 2008 62,000 LBS \$1.02 2009 21,907,000 DOZ \$0.72 2008 26,127,000 DOZ \$0.87 2009 564,000 TON \$1.00 2008 407,000 TON \$1.00

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

Olives and Olive Oil Facts and Figures







Virgin Olive Oil is from the first pressing of top quality olives and has an acidity of less than 2%.

We over 90% of the world's olive production is used to make olive oil.

Fresh picked olives are too bitter to be palatable. Before eating they must first be processed or cured to remove their bitter taste.

California is the only state where olives are grown commercially.

Olive branches were given to the Olympic Champions in Ancient Greece. The olive tree is a symbol of triumph, wisdom, and peace.

The Bible has more than 140 references to olive trees and olive oil.

Homemade lip balm may be made by mixing olive oil with bee's wax.

There is no cholesterol in olive oil.

The colors of olives are green, purple, dark brown, black and pink.

Olive oil used on the scalp can reduce dandruff.

The olive was first harvested and recognized for its many valuable properties in ancient India, not in Greece or Egypt.

The olive tree is the healthiest tree known to man. It is not susceptible to destruction by fungus and bacteria

In Greece, the olive trees were so sacred that those who cut one down were condemned to death or exile.

Olive oil is reputed to be the oldest remedy known to man for the reduction of wrinkles and stretch marks.

OLIVE OIL PROCESSING

STEP 1: CLEANING

Olives are processed for oil within hours after harvesting. The first step is cleaning the olives. Stems, leaves, twigs, and other debris are removed and then olives are washed with water. Light contaminants are removed by a blower and heavy objects sink in the water bath.



STEP 2: GRINDING INTO A PASTE

After washing, the olives are then ground into a paste. Grinding releases the oil for extraction. The primary machines used to grind olives are the hammermill and diskmill.

STEP 3: MALAXING

After grinding, the paste undergoes a malaxing or mixing process for 20 to 45 minutes to allow small oil droplets to combine into larger ones. The mixing process optimizes the amount of oil extracted and allows the oil to fully absorb the flavor of the fruit.



STEP 4: SEPARATING THE OIL

The oil is then separated from the paste by centrifugation. A decanter centrifuge spins the paste at high speeds to remove the water and solids. The first extraction is called the first or cold pressing. The term "pressing" is used because this process was previously done with presses. Extra virgin and virgin olive oils come from the first pressing and are named such because they are produced through purely mechanical means.



STEP 5: OIL CLEANING

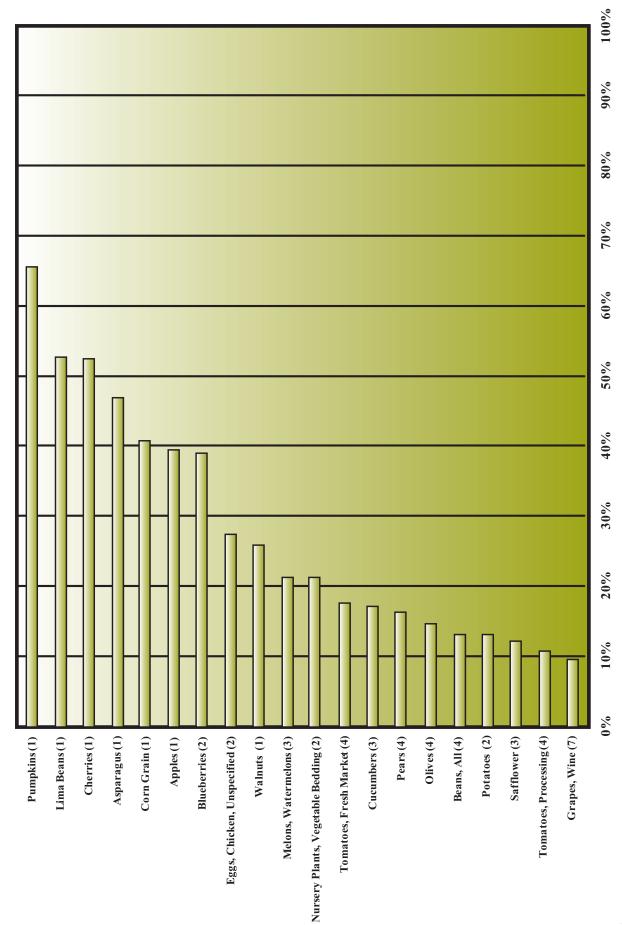
The oil from the first pressing is often centrifuged a second time at higher speed to eliminate any remaining water and solids.

STEP 6: OIL STORAGE

After processing, the oil is stored in tanks or barrels for 1-3 months to further settle out any remaining water and solids. Stainless steel tanks protect the oil from excessive oxygen levels and exposure to sunlight. If the oil is not protected correctly, it becomes rancid. Finally, if desired, the oil is filtered before bottling.

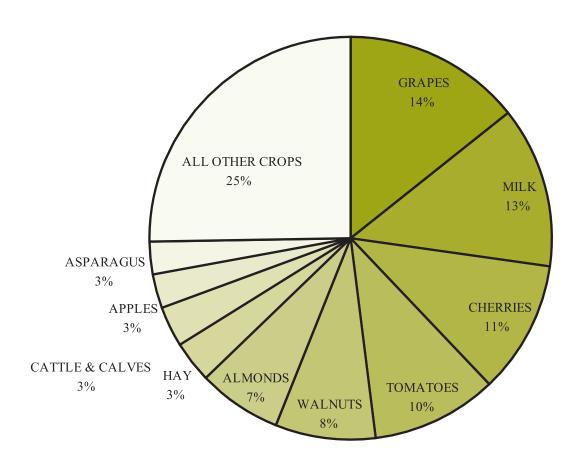
SAN JOAQUIN COUNTY'S SHARE OF STATEWIDE PRODUCTION

State as a whole, based on gross value during the 2008 crop year. The bars represent San Joaquin County's percentage Listed below are the top twenty crops which San Joaquin County produced in a large proportion compared to the of the state's production value for the crop. The numbers in parenthesis next to the crop labels show San Joaquin County's Ranking for the production of that crop among the other counties of California.



San Joaquin County's Top Ten Leading Crops for 2009

GRAPES	\$284,981,000
MILK	\$257,715,000
CHERRIES	\$212,735,000
TOMATOES	\$201,528,000
WALNUTS	\$160,536,000
ALMONDS	\$134,332,000
HAY	\$66,498,000
CATTLE & CALVES	\$64,711,000
APPLES	\$54,469,000
ASPARAGUS	\$52,118,000
ALL OTHER CROPS	\$510,851,000



Sustainable Agriculture

Pest Exclusion/Detection

Sustainable Agriculture is a system utilized by farmers to reach their goals of producing good yields and profits while following production practices that minimize negative short and long term impacts on the environment and the well-being of the community. In many ways San Joaquin County supports local agriculture in these goals. Most importantly, is our program to make certain invasive pests are kept out of the County. This is accomplished by the continual monitoring of local orchards, vineyards, nurseries, and residential areas for any sign of unwanted invasive pests.

Our office's Pest Exclusion/Detection branch monitors, identifies, and assists in the eradication and/or control of invasive pests. Five full-time and two part-time biologists daily inspect arriving plant material at postal and parcel facilities, nurseries, and private residences. There are thousands of inspections done annually for invasive pests. Additionally, many seasoned pest detection specialists work in trapping and monitoring programs geared to detect the arrival of invasive pests such as Light Brown Apple Moth, Glassy Winged Sharpshooter, Gypsy Moth, Mediterranean Fruit Fly and Apple Maggot, to name a few.

Several invasive pests are now presenting challenges to our County. They are:

<u>Light Brown Apple Moth (LBAM)</u>: San Joaquin County experienced its first invasive pest quarantine in 29 years with the discovery of LBAM in the City of Manteca. Subsequent finds in Tracy and Stockton resulted in additional quarantines. Presently, LBAM is under eradication and survey and trapping continues throughout the County.

<u>European Grape Vine Moth (EGVM):</u> The discovery of EGVM in the Napa area during the fall of 2009 resulted in a statewide survey for the pest. EGVM is an invasive pest that has much potential to significantly damage grapes. Currently, our office is trapping the grape growing areas for EGVM.

<u>Asian Citrus Psyllid (ACP):</u> Asian Citrus Psyllid has been found in California and is under an intensive eradication and monitoring effort. ACP spreads Huanglonbing disease. This disease kills citrus trees and is the world's most devastating citrus disease. Our office is trapping and monitoring for ACP.

<u>Glassy-winged Sharpshooter (GWSS)</u>: The County is in the 10th year of its GWSS prevention program. This pest spreads Pierce's disease in grapes. The disease kills grapes. The County continues to monitor, trap, and survey for this pest. After 10 years, the County still remains GWSS free.

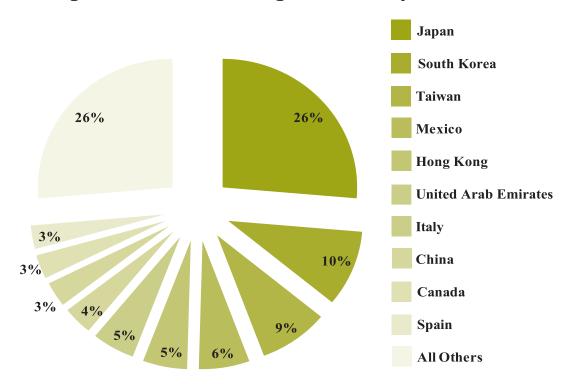
<u>Sudden Oak Death (SOD)</u>: SOD is a disease of oaks that is also found in many nursery plants. This disease kills native oaks and damages nursery plants. Our office continues to monitor the County's nurseries for this deadly disease.

We ask for your help in our mission by obeying the quarantine laws and regulations. Avoid the temptation to bring produce and nursery products into our county from other states and countries without following existing rules, regulations and certifications. Together we will continue to keep agriculture safe and productive by keeping invasive pests out of our county.

SAN JOAQUIN COUNTY TRADING PARTNERS 2009

	1/42-121-17		
ALBANIA	EGYPT	JAPAN	QATAR
ALGERIA	EL SALVADOR	JORDAN	REPUBLIC OF KOREA
ARGENTINA	ESTONIA	KAZAKHSTAN	RUSSIAN FEDERATION
ARMENIA	ETHIOPIA	KUWAIT	SAUDI ARABIA
AUSTRALIA	FRANCE	LATVIA	SINGAPORE
BAHRAIN	FRENCH POLYNESIA	LEBANON	SLOVAKIA
BANGLADESH	GAMBIA	LIBERIA	SOUTH AFRICA
BELGUIM /	GERMANY	MACEDONIA	SPAIN
BRAZIL	GHANA	MALAYSIA	SRI LANKA
BRITISH VIRGIN ISLANDS	GREECE	MALTA	SWEDEN
BULGARIA	GRENADA	MEXICO	SWITZERLAND
CANADA	GUATEMALA	MOROCCO	TAIWAN
CHILE	HONDURAS	NETHERLANDS	THAILAND
CHINA	HONG KONG	NEW ZEALAND	TURKEY
COLOMBIA	HUNGARY	NICARAGUA	UGANDA
CONGO	INDIA	NORWAY	UKRAINE //
COSTA RICA	INDONESIA	PAKISTAN	UNITED ARAB EMIRATES
CYPRUS	IRAQ	PANAMA	UNITED KINGDOM
CZECH REPUBLIC	IRELAND	PERU /	URUGUAY
DENMARK	ISRAEL	PHILIPPINES	VENEZUELA
DOMINICAN REPUBLIC	ITALY	POLAND	VIETNAM
ECUADOR	JAMAICA	PORTUGAL	

Export Shipments by Country Inspected in San Joaquin County



General San Joaquin County Information

County Seat: Stockton

County Population (2008): 682,660

Population per Square Mile: 489

Incorporated Cities (7):

Escalon, Lathrop, Lodi, Manteca, Ripon, Stockton, Tracy

Land Area (Square Miles): 1400

Land Area in Farms (Acres-2007): 737,503

Total Cropland (Acres-2007): 492,032

Irrigated Cropland (Acres- 2007): 453,980

Number of Farms (2007): 3,624

Average Size of Farms (Acres-2007): 204

Agricultural Work Force (Monthly Average-2007): 23,037

Lowest Elevation in County (Delta Area): 12' Below Sea Level

Highest Elevation in County (Southwest Hills): 3065' Above Sea Level

Length of County (North to South): 75 Miles

Length of County (East to West): 65 Miles

Average January Temperature (F) 46

Average July Temperature (F) 76

Average Annual Rainfall:

North County: 16 Inches South County: 14 Inches

East County: 12 Inches West County: 9 Inches

A SPECIAL "THANK YOU"

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



and



for their contributions to the 2009 Crop Report. We would also like to thank the San Joaquin County Cooperative Extension for their assistance. Without their support the publication of this report would not be possible.

AGRICULTURAL COMMISSIONER'S OFFICE SAN JOAQUIN COUNTY 2101 East Earhart Avenue, Suite 100 Stockton, CA 95206

