2013 Agricultural Report SAN JOAQUIN COUNTY

The 2013 San Joaquin County Agricultural Report is dedicated to

Scott Hudson

On March 31, 2014, after 35 years of dedicated public service, Scott Hudson retired as San Joaquin County Agricultural Commissioner and Sealer of Weights and Measures. Scott attended San Joaquin Delta College and transferred to the University of California, Davis, where, in 1977, he graduated with a Bachelor of Science degree in Plant Science. Scott's connection to San Joaquin County's agriculture reaches back to 1979, when he left a Santa Maria wholesale nursery to return to the Lodi area and join San Joaquin County's Agricultural Commissioner's Office, on April 30, 1979, as an Agricultural Inspector.

During his free time Scott continued his education earning a Master's Degree in Public Administration from California State University, Stanislaus, in 1992. Scott's career within the Agricultural Commissioner's Office advanced with several managerial promotions: on January 30, 1989, he was promoted to Deputy Agricultural Commissioner and placed in charge of the department's Pesticide Use Enforcement Program, on May 31, 1993, he was promoted to Assistant Agricultural Commissioner/Sealer and became responsible for the departments day-to-day operations, finally on June 11, 1996, Scott was appointed to the Agricultural Commissioner and Sealer of Weights and Measures position by San Joaquin County's Board of Supervisors.

Scott's accomplishments during his 18 year tenure as Agricultural Commissioner are too numerous to enumerate here but include: in 2000 implementing an effective cooperative program that continues to protect the County's vital grape industry from the introduction of Pierce's Disease a deadly grape disease vectored by the Glassy-winged Sharpshooter; in 2008 with the help of many others, bringing a ten year process to completion with the dedication and opening of San Joaquin County's Robert J. Cabral Agricultural Center, a multipurpose building that hosts over 300 annual agriculture and general government events and houses the Office of Emergency Services, University of California Cooperative Extension, and the Agricultural Commissioner's Office; in 2010, with federal funding successfully bringing a canine detection team to the County where a United States Department of Agriculture trained detector dog and an Agricultural Biologist handler inspect packages at various terminals to prevent the introduction of pests harmful to the County and State's agriculture, ornamental landscape, and natural environment; in 2012, with state, federal, and especially the agricultural industry's cooperation, eradicating two extremely detrimental invasive insect pests: European Grapevine Moth (detected 8/2/2010) and Oriental Fruit Fly (detected 9/9/2011); in partnership with many local agencies and hundreds of volunteers, overseeing the highly regarded AgVenture program that annually introduces 11,000 County third-graders, through a free field trip, to farming and the nutritional value of eating fresh fruits, nuts, and vegetables.

Scott's leadership and collaborative approach to introducing new programs and resolving issues has helped guide agriculture's progress in our county for over three decades. Although his knowledge and insight will be greatly missed, we wish him a most joyous retirement and hope the fish are always biting.

Photo Credit: Dale Goff, Goff Photography

SAN JOAQUIN COUNTY
AGRICULTURAL COMMISSIONER'S OFFICE

2013 ANNUAL CROP REPORT

Gary Caseri
Interim Agricultural Commissioner/Sealer

Compiled by
Rick Schwieger & Tiffany Gonsalves

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MS. KAREN ROSS, 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 eightieth annual report of agricultural production in San Joaquin County.

The gross value of agricultural production for 2013 reached another all-time high of $2,976,997,000. This represents an increase of 2.88 percent over the 2012 value of $2,893,783,000. Crop values by category and percentage change are shown below:

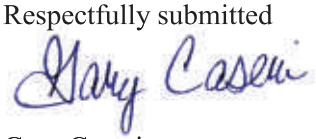
- Field Crops: $331,031,000 (-0.95%)
- Fruit & Nut Crops: $1,687,187,000 (+1.78%)
- Seed Crops: $3,357,000 (-5.76%)
- Vegetable Crops: $275,809,000 (+3.86%)
- Nursery Products: $104,584,000 (+18.90%)
- Apiary Products: $17,079,000 (-20.97%)
- Livestock & Poultry: $108,818,000 (+8.85%)
- Livestock & Poultry Products: $449,132,000 (+6.11%)

2013 showed a modest increase in agriculture values for San Joaquin County. The cherry and grape crops showed significant decreases from the 2012 revenues due to reductions in yields and/or value. Livestock & Poultry showed increases in animal inventory and higher market pricing. Livestock & Poultry Products increased due to better milk pricing and an increase in egg production.

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.

I wish to express my sincere appreciation to agricultural producers, industry representatives and public agencies who have cooperated in providing data for this report. I would also like to express my sincere thanks to the Agricultural Commissioner staff, especially Deputy Agricultural Commissioner Don McCoon, Jr. and Agricultural Inspectors Rick Schwieger and Tiffany Gonsalves who compiled the report.

Respectfully submitted



Gary Caseri
Interim Agricultural Commissioner/Sealer

INTERIM AGRICULTURAL COMMISSIONER/SEALER
GARY CASERI

ASSISTANT AGRICULTURAL COMMISSIONER/SEALER
GARY STOCKEL

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Share Hawkins	**Accounting Technician I**
Hiromi Hernandez	**Office Assistant Specialist**
Terry King	**Accounting Technician II**
Laura Rocha	**Senior Office Assistant, Simms Station**

All staff are based in Stockton unless otherwise noted.

ALMOND AND WALNUT PRODUCTION IN SAN JOAQUIN COUNTY

Almond and walnut production during the past ten years has averaged 16% of the County's total crop production. Between the two commodities they represent over 117,000 acres of the producing acres in the county or approximately 180 square miles of nut crops.

Walnuts, *Juglans regia,* originated in ancient Persia, or what is now central Asia. Man has used walnuts as a trade item since recorded history. At the turn of the century, it was generally believed that walnuts could not be grown successfully in northern California. A lecture by Dr. W. W. Fitzgerald, reported in detail in the March 23, 1914, issue of the Stockton Record, soon changed the misconception that walnuts could not be grown in this area. Dr. Fitzgerald had the only walnut orchard in San Joaquin County in 1914 comprising 100 acres east of Stockton. By 1919 there were 2,643 acres, followed by nearly 9,000 acres in 1929, and today we are averaging almost 60,200 acres.

After the walnut sapling is planted, it takes four to five years for the tree to mature for walnut production. The vast majority of walnut trees are of the Hartley and Chandler varieties followed by Serr, Vina, Franquette and Howard.

Almonds, *Prunis dulcis*, are native to western Asia. Spanish explorers brought almonds with them during their early exploration of North America. Grown and nurtured by our forefathers in small orchards throughout the country until commercial production began in the early 1900's. The United States surpassed Spanish production by 1977 and by 2000 the United States became the worldwide supplier of almonds, with California being the only state to commercially produce almonds.

Almond trees have an average life span of 20 to 25 years and do not produce a viable crop until the 3rd or 4th year after planting. The top five varieties grown are: Nonpareil, about 39% of the annual crop, followed by Monterey (12%), Carmel (9%), Butte (8%), and Mission (4%).

Australia, Canada, Germany, Israel and China are the largest importers of San Joaquin County grown walnuts. The top five importers of San Joaquin County almonds are Canada, China, France, Germany and India. Walnuts are typically sold as snack items or used in production of candies, cereals or baked goods. More than 70% of the walnuts sold are shelled. Due to the hard consistency of walnut shells, they are ground up into small particles and used in place of sand for abrasive cleaning of materials by air blasting. Almonds are generally sold as in-shell or processed. Processed almonds may be shelled, dry roasted or flavored, blanched, sliced, chopped or made into flour, paste or flavorings. The by-product of almonds, the hull and shell, are used by the livestock industry for feed additives or livestock bedding.

Many changes are taking place in the walnut and almond industries. Irrigation methods are going from flood irrigation to full coverage sprinkler systems or micro-sprinkling pressurized systems. This allows for water conservation and a more controlled and regulated irrigation distribution system. It is estimated that almost half of the pollinating honeybees available in the United States are used for the California almond crop. The availability of pollinating hives has been declining in recent years due to disease and parasitic infestations of the hives. Recent advancements in genetic research have developed a self-pollinating almond tree which greatly reduces or eliminates bees needed for pollination. Horticultural practices continually change with tree spacing, number of trees per acre, irrigation methods, pesticide/herbicide usage and orchard management. These changes, along with many others, keep San Joaquin County as the leading county in walnut production and one of the top California counties for almond production.

FIELD CROPS

All beans, except Lima beans, have seen a moderate increase in acreage from 2012.

CROP	YEAR	PRODUCTION				GROSS VALUE		
		HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	SUBTOTAL	TOTAL
BEANS, DRY, ALL*	2013	11,300	1.04	11,700	TON	$825.00		$9,666,000
	2012	6,600	1.17	7,730	TON	$1,190.00		$9,171,000
LIMA	2013	400	1.10	440	TON	$1,070.00	$471,000	
	2012	1,400	1.43	2,000	TON	$1,285.00	$2,570,000	
BEANS, OTHER *	2013	10,900	1.03	11,300	TON	$816.00	$9,195,000	
	2012	5,150	1.11	5,730	TON	$1,152.00	$6,601,000	
CORN, GRAIN	2013	58,100	5.32	309,000	TON	$201.00		$62,109,000
	2012	60,600	4.82	292,000	TON	$239.00		$69,788,000
HAY, ALL	2013	62,300	6.71	418,000	TON	$221.00		$92,527,000
	2012	63,700	6.50	414,000	TON	$216.00		$89,602,000
ALFALFA	2013	55,100	7.17	395,000	TON	$222.00	$87,690,000	
	2012	57,100	6.77	387,000	TON	$220.00	$85,140,000	
OTHER	2013	7,200	3.25	23,400	TON	$207.00	$4,837,000	
	2012	6,600	4.00	26,400	TON	$169.00	$4,462,000	
PASTURE & RANGE	2013	135,000			ACRE	$40.00		$5,393,000
	2012	134,500			ACRE	$40.00		$5,393,000
IRRIGATED	2013	14,500			ACRE	$165.00	$2,393,000	
	2012	14,500			ACRE	$165.00	$2,393,000	
OTHER	2013	120,000			ACRE	$25.00	$3,000,000	
	2012	120,000			ACRE	$25.00	$3,000,000	
RICE	2013	4,530	3.87	17,500	TON	$340.00		$5,950,000
	2012	6,010	4.10	24,600	TON	$326.00		$8,020,000
SAFFLOWER	2013	4,550	1.53	6,960	TON	$545.00		$3,793,000
	2012	5,600	1.25	7,000	TON	$525.00		$3,680,000
SILAGE, CORN	2013	52,500	26.56	1,394,000	TON	$46.00		$64,124,000
	2012	52,300	30.80	1,611,000	TON	$45.00		$72,495,000
SILAGE, OTHER INCLUDES GREEN CHOP	2013	104,000	11.37	1,186,000	TON	$41.00		$48,626,000
	2012	109,000	9.60	1,047,000	TON	$42.00		$43,974,000
WHEAT	2013	26,400	2.90	76,600	TON	$251.00		$19,225,000
	2012	29,100	3.05	88,600	TON	$226.00		$20,031,000
OTHER	2013	34,700						$19,618,000
	2012	43,000						$12,052,000
TOTAL*	2013	493,000						$331,031,000
	2012	508,000						$334,206,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING
BEANS, OTHER INCLUDES BLACKEYE, KIDNEY, GARBANZO, AND ALL OTHER BEANS NOT LISTED
* ADJUSTED FIGURES

FRUIT AND NUT CROPS

Almond acreage, yields, and price, increased in 2013 resulting in a 55% increase in value

		PRODUCTION				GROSS VALUE		
CROP	YEAR	BEARING ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	SUBTOTAL	TOTAL
ALMOND, MEATS	2013	56,800	1.25	70,900	TON	$6,600.00		$467,940,000
	2012	56,100	1.23	69,000	TON	$4,354.00		$300,426,000
ALMOND, HULLS	2013			160,000	TON	$125.00		$19,938,000
	2012			155,000	TON	$145.00		$22,519,000
APPLES, ALL*	2013	3,470	24.84	86,200	TON	$600.00		$51,724,000
	2012	3,610	21.00	75,800	TON	$596.00		$45,157,000
FRESH	2013			63,000	TON	$733.00	$46,181,000	
	2012			55,300	TON	$705.00	$39,016,000	
PROCESSING	2013			23,200	TON	$239.00	$5,543,000	
	2012			20,500	TON	$300.00	$6,141,000	
APRICOTS*	2013	652	12.00	8,000	TON	$440.00		$3,520,000
	2012	633	12.00	7,600	TON	$398.00		$3,025,000
BLUEBERRIES	2013	1,310	4.45	5,830	TON	$4,790.00		$27,890,000
	2012	1,320	4.20	5,550	TON	$3,720.00		$20,639,000
CHERRIES, ALL	2013	20,700	2.16	44,800	TON	$3,210.00		$143,638,000
	2012	20,660	3.08	63,800	TON	$3,534.00		$225,416,000
FRESH	2013			37,300	TON	$3,760.00	$140,136,000	
	2012			56,600	TON	$3,888.00	$220,061,000	
PROCESSING	2013			7,450	TON	$470.00	$3,502,000	
	2012			10,000	TON	$524.00	$5,355,000	
GRAPES, ALL*	2013	96,400	8.93	861,000	TON	$577.00		$496,370,000
	2012	110,300	8.09	900,000	TON	$616.00		$554,400,000
TABLE, CRUSHED**	2013							
	2012	805	8.50	6,840	TON	$325.00	$2,223,000	
WINE, ALL*	2013	96,400	8.93	861,000	TON	$577.00	$496,370,000	
	2012	109,500	8.15	893,000	TON	$618.00	$551,874,000	
FRESH	2013			7,500	TON	$786.00	$5,895,000	
	2012			7,920	TON	$1,112.00	$8,807,000	
CRUSHED	2013			853,000	TON	$575.00	$490,475,000	
	2012			885,000	TON	$608.00	$538,080,000	

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING
*VALUES CORRECTED FROM 2012 ANNUAL CROP REPORT
** WINE, ALL, NOW INCLUDES TABLE, CRUSHED

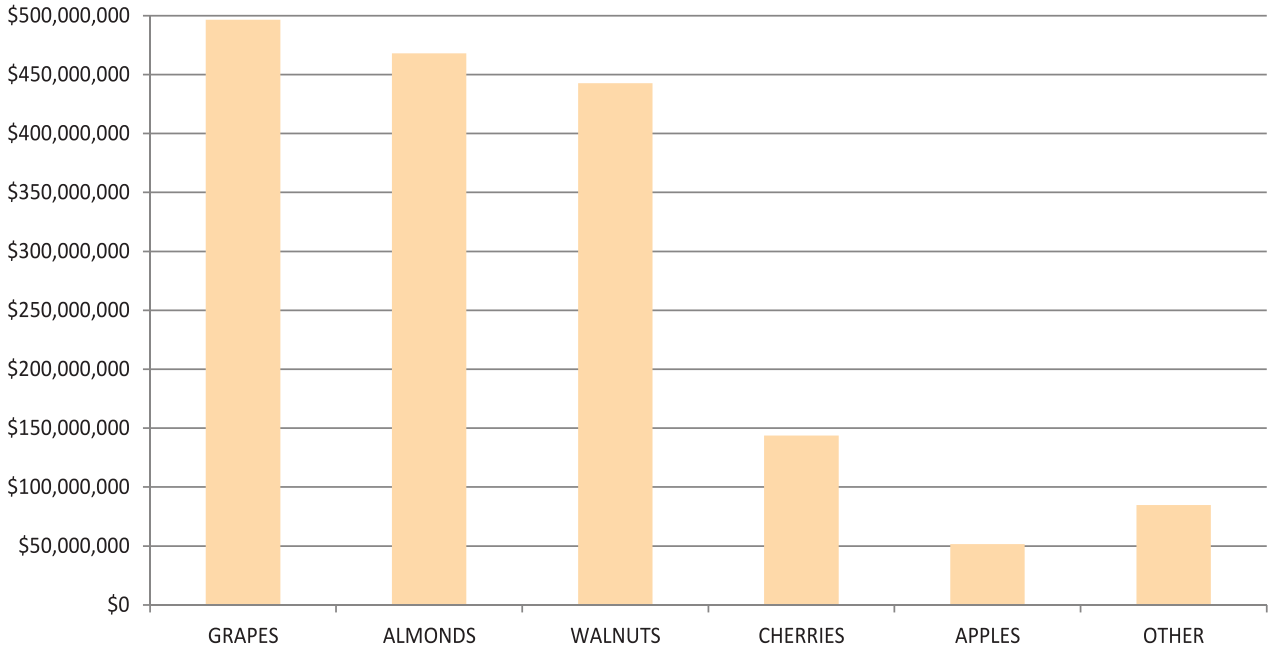
FRUIT AND NUT CROPS

Walnut acreage and price increased in 2013.
However, yield and total value decreased.

CROP	YEAR	PRODUCTION				GROSS VALUE		
		BEARING ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	SUBTOTAL	TOTAL
OLIVES, PROCESSING	2013	3,850	3.54	13,600	TON	$643.00		$8,745,000
	2012	4,440	4.25	19,000	TON	$627.00		$11,913,000
PEACHES, ALL	2013	1,820	24.45	44,500	TON	$315.00		$14,002,000
	2012	2,070	15.50	32,000	TON	$293.00		$9,406,000
CLINGSTONE	2013	730	21.10	15,400	TON	$331.00	$5,097,000	
	2012	830	17.00	14,000	TON	$316.00	$4,456,000	
FREESTONE	2013	1,090	26.67	29,100	TON	$306.00	$8,905,000	
	2012	1,240	14.50	18,000	TON	$275.00	$4,950,000	
PEARS	2013	254	10.53	2,700	TON	$310.00		$837,000
	2012	436	17.00	7,400	TON	$295.00		$2,183,000
WALNUTS, ENGLISH	2013	60,200	2.25	135,000	TON	$3,270.00		$442,753,000
	2012	57,800	2.75	159,000	TON	$2,874.00		$456,966,000
OTHER	2013	800						$3,443,000
	2012	770						$3,946,000
BIOMASS	2013							$6,387,000
	2012							$1,635,000
TOTAL*	2013	254,000						$1,687,187,000
	2012	258,000						$1,657,631,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

TOP 5 FRUIT AND NUT CROPS BY VALUE



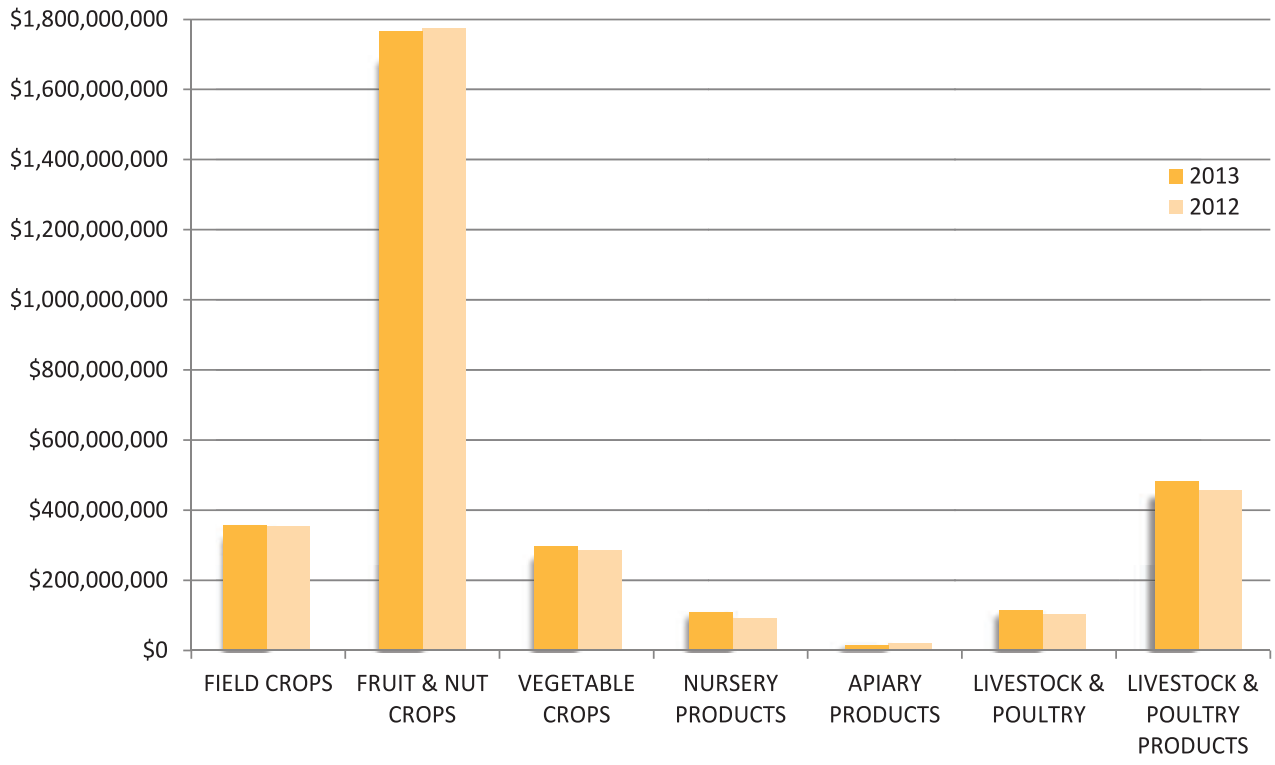
SEED CROPS

A modest increase in harvested acres was observed. However, total value continues to show a downward trend in 2013.

		PRODUCTION				GROSS VALUE	
CROP	YEAR	HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
BEANS, OTHER	2013	394	26.15	10,300	CWT	$55.00	$567,000
	2012	295	21.40	6,300	CWT	$47.00	$296,000
OTHER	2013	853					$2,790,000
	2012	880					$3,266,000
TOTAL	2013	1,250					$3,357,000
	2012	1,180					$3,562,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING
KIDNEY BEANS INCLUDED IN BEANS ALL
VEGETABLES SEEDS INCLUDED IN OTHER

COMPARISON OF VALUES FOR EACH CROP CATEGORY



VEGETABLE CROPS

Potato yield and price increased considerably,
subsequently total value, for potatoes, increased more than 36.3 million dollars.

CROP	YEAR	PRODUCTION				GROSS VALUE		
		HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	SUBTOTAL	TOTAL
ASPARAGUS	2013	5,940	1.24	7,360	TON	$3,170.00		$23,458,000
	2012	6,320	1.97	12,500	TON	$2,890.00		$36,125,000
CORN, SWEET	2013	2,370	10.21	24,200	TON	$424.00		$10,261,000
	2012	2,560	7.70	19,700	TON	$408.00		$8,038,000
CUCUMBERS	2013	2,140	8.75	18,700	TON	$184.00		$3,441,000
	2012	2,410	9.00	21,700	TON	$182.00		$3,949,000
MELONS, ALL	2013	2,200	35.09	77,200	TON	$360.00		$27,828,000
	2012	2,530	40.40	102,000	TON	$405.00		$41,351,000
WATERMELON	2013	2,050	36.00	73,800	TON	$360.00	$26,568,000	
	2012	2,290	42.13	96,500	TON	$405.00	$39,083,000	
OTHER	2013	150	22.40	3,360	TON	$375.00	$1,260,000	
	2012	240	23.63	5,670	TON	$400.00	$2,268,000	
ONIONS, DRY	2013	2,180	25.00	54,500	TON	$257.00		$14,007,000
	2012	1,820	25.00	45,500	TON	$300.00		$13,650,000
PEPPERS	2013	820	11.70	9,600	TON	$615.00		$5,904,000
	2012	1,030	19.01	19,600	TON	$529.00		$10,359,000
POTATOES	2013	3,200	21.35	67,900	TON	$896.00		$60,838,000
	2012	3,600	18.85	68,100	TON	$360.00		$24,516,000
PUMPKINS	2013	3,600	15.00	54,000	TON	$300.00		$16,200,000
	2012	3,120	17.50	54,600	TON	$300.00		$16,380,000
TOMATOES, ALL	2013	28,500	39.96	1,139,000	TON	$90.00		$102,427,000
	2012	30,200	38.44	1,161,000	TON	$88.00		$102,632,000
SHIPPING	2013	2,690	15.00	40,000	TON	$555.00	$22,200,000	
	2012	3,880	14.54	56,000	TON	$412.00	$23,072,000	
PROCESSING	2013	25,800	42.61	1,099,000	TON	$73.00	$80,227,000	
	2012	26,300	42.00	1,105,000	TON	$72.00	$79,560,000	
OTHER	2013	2,490						$11,445,000
	2012	1,720						$8,568,000
TOTAL	2013	53,400						$275,809,000
	2012	55,300						$265,568,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

NURSERY AND APIARY PRODUCTS

Nursery products in the county continue to show an upward trend in total value.

ITEM	YEAR	QUANTITY SOLD	UNIT	GROSS VALUE TOTAL
GRAPEVINES, STRAWBERRY PLANTS, FRUIT & NUT TREES	2013	106,399,000	PLANT	$13,345,000
	2012	115,111,000	PLANT	$12,404,000
VEGETABLE PLANTS	2013	297,574,000	PLANT	$20,887,000
	2012	359,552,000	PLANT	$14,921,000
FLOWERING POTTED PLANTS	2013	1,031,000	EACH	$4,552,000
	2012	1,062,000	EACH	$2,511,000
FOLIAGE PLANTS	2013	1,187,000	EACH	$4,985,000
	2012	659,000	EACH	$3,134,000
BEDDING PLANTS	2013	247,926,000	PLANT	$10,957,000
	2012	244,807,000	PLANT	$13,331,000
WOODY ORNAMENTALS	2013	8,204,000	EACH	$32,589,000
	2012	7,035,000	EACH	$27,527,000
BULBS, RHIZOMES, TURF, CACTUS, CHRISTMAS TREES, ETC.	2013			$17,269,000
	2012			$14,129,000
TOTAL	2013			$104,584,000
	2012			$87,957,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

APIARY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	GROSS VALUE PER UNIT	GROSS VALUE TOTAL
HONEY	2013	117,000	LBS	$2.00	$234,000
	2012	108,000	LBS	$2.05	$221,000
POLLINATION	2013	124,000	HIVE	$135.00	$16,727,000
	2012	152,400	HIVE	$139.00	$21,244,000
OTHER APIARY	2013				$118,000
	2012				$145,000
TOTAL	2013				$17,079,000
	2012				$21,610,000

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

LIVESTOCK AND POULTRY

An increase in the number of cattle along with an increase in milk price resulted in higher Livestock and Poultry values.

ITEM	YEAR	NO. HEAD	LIVE WEIGHT	UNIT	GROSS VALUE PER UNIT	GROSS VALUE TOTAL
CATTLE & CALVES	2013	113,000	826,000	CWT	$92.00	$76,043,000
	2012	107,000	782,000	CWT	$86.00	$66,987,000
SHEEP & LAMBS	2013	18,100	23,500	HD	$113.00	$2,663,000
	2012	17,365	23,000	HD	$149.00	$3,437,000
BROILERS*	2013	1,777,000	9,542,000	LBS	$0.80	$7,639,000
	2012	1,668,000	9,601,700	LBS	$0.67	$6,433,000
TURKEYS	2013	611,000	19,664,000	LBS	$0.93	$18,288,000
	2012	601,000	20,549,000	LBS	$0.88	$18,083,000
OTHER LIVESTOCK	2013					$4,185,000
	2012					$5,030,000
TOTAL*	2013					$108,818,000
	2012					$99,970,000

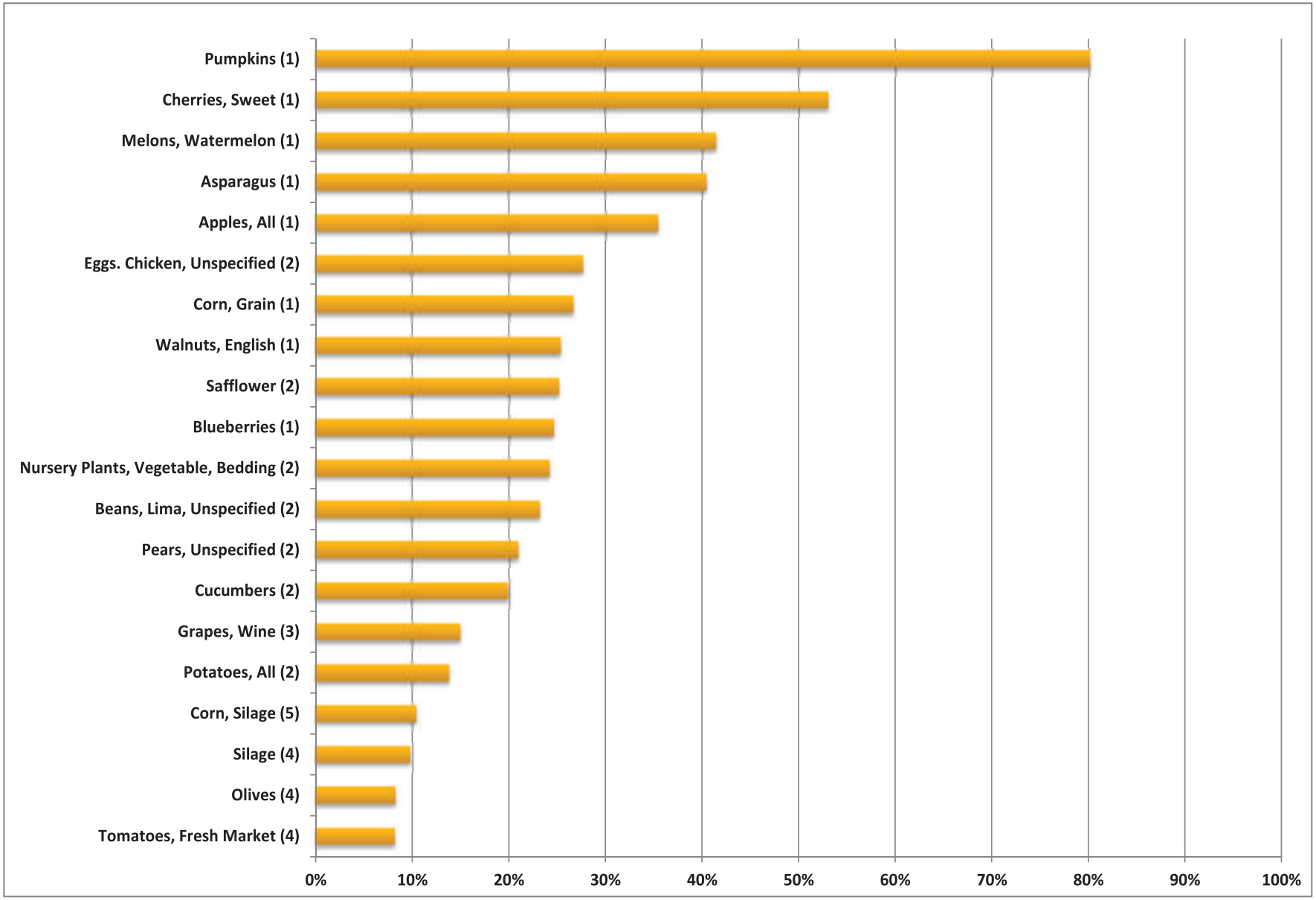
OTHER LIVESTOCK INCLUDES HOGS, GOATS, SQUAB, DUCKS, AND OTHER FOWL
* ADJUSTED FIGURES

LIVESTOCK AND POULTRY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	GROSS VALUE PER UNIT	GROSS VALUE TOTAL
MILK, ALL	2013	23,158,000	CWT	$19.00	$429,358,000
	2012	23,771,000	CWT	$17.00	$404,109,000
WOOL	2013	65,000	LBS	$2.00	$131,000
	2012	62,000	LBS	$1.80	$112,000
EGGS, CHICKEN	2013	29,778,000	DOZ	$0.62	$18,556,000
	2012	20,047,000	DOZ	$0.84	$16,771,000
MANURE	2013	217,000	TON	$5.00	$1,087,000
	2012	457,000	TON	$5.00	$2,287,000
TOTAL	2013				$449,132,000
	2012				$423,279,000

NUMBERS MAY NOT COMPUTE EXACTLY DUE TO ROUNDING

SAN JOAQUIN COUNTY'S SHARE OF STATEWIDE PRODUCTION FOR 2012



SAN JOAQUIN COUNTY TRADING PARTNERS 2013

ALGERIA
ARGENTINA
AUSTRALIA
AUSTRIA
BAHRAIN
BELGIUM
BELIZE
BOLIVIA, PLURINATIONAL STATE OF
BRAZIL
BULGARIA
BURKINA FASO
CANADA
CHILE
CHINA
COLOMBIA
COSTA RICA
CYPRUS
CZECH REPUBLIC
DENMARK
DOMINICAN REPUBLIC
ECUADOR
EGYPT
EL SALVADOR
ESTONIA
ETHIOPIA
FRANCE
GEORGIA
GERMANY
GHANA
GREECE
GRENADA
GUATEMALA
GUYANA
HAITI
HONDURAS
HONG KONG
HUNGARY
INDIA
INDONESIA
ISRAEL
ITALY
JAPAN
JORDAN
KAZAKHSTAN
KOREA, DEMOCRATIC PEOPLE'S REPUBLIC OF
KOREA, REPUBLIC OF
KUWAIT
LATVIA
LEBANON
LIBYA
LITHUANIA
MALAYSIA
MALTA
MAURITIUS
MEXICO
MOROCCO
NETHERLANDS
NEW CALEDONIA
NEW ZEALAND
NICARAGUA
NIGER
NIGERIA
NORWAY
PAKISTAN
PANAMA
PERU
PHILIPPINES
POLAND
PORTUGAL
QATAR
REUNION
RUSSIAN FEDERATION
SAUDI ARABIA
SERBIA
SINGAPORE
SOUTH AFRICA
SPAIN
SRI LANKA
SWEDEN
SWITZERLAND
TAIWAN
THAILAND
TUNISIA
TURKEY
UKRAINE
UNITED ARAB EMIRATES
UNITED KINGDOM
UNITED STATES
URUGUAY
VENEZUELA, BOLIVARIAN REPUBLIC OF
VIETNAM
YEMEN

TOP TEN CROPS

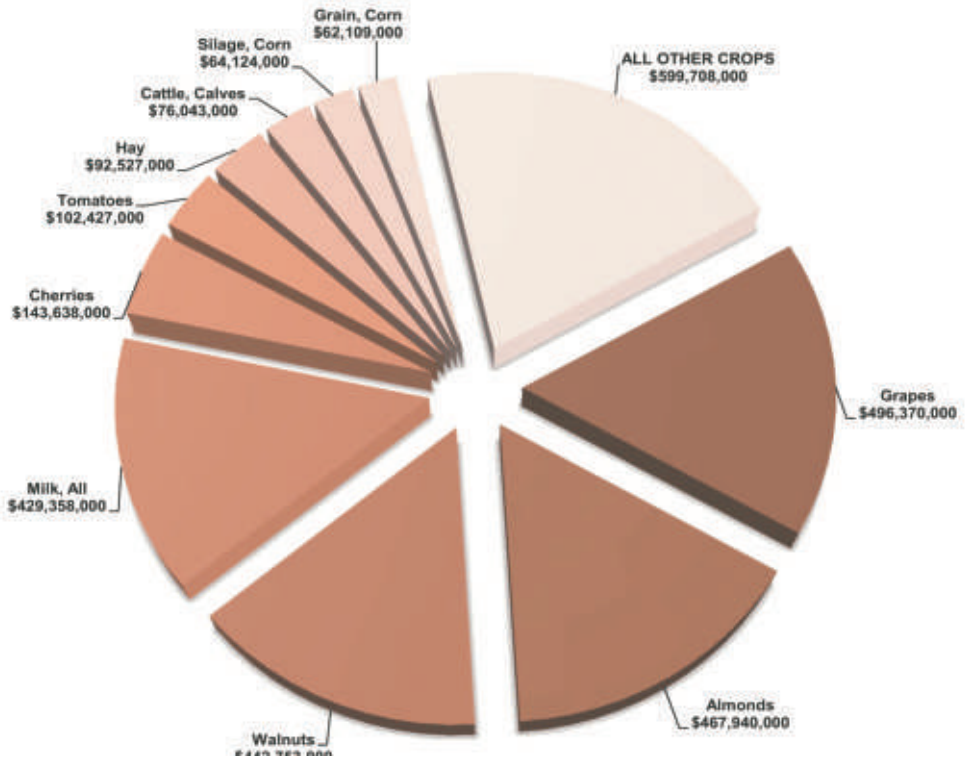
2012

1	Grapes	$	554 M
2	Walnuts	$	457 M
3	Milk, All	$	404 M
4	Almonds	$	300 M
5	Cherries	$	225 M
6	Tomatoes	$	103 M
7	Hay	$	90 M
8	Silage Corn	$	72 M
9	Grain Corn	$	70 M
10	Cattle and Calves	$	67 M

2013

1	Grapes	$	496 M	↓
2	Almonds	$	468 M	↑
3	Walnuts	$	443 M	↓
4	Milk, All	$	429 M	↑
5	Cherries	$	144 M	↓
6	Tomatoes	$	102 M	↓
7	Hay	$	93 M	↑
8	Cattle and Calves	$	76 M	↑
9	Silage Corn	$	64 M	↑
10	Grain Corn	$	62 M	↑

TOP TEN CROPS BY VALUE 2013



Pest / Detection and Sustainable Agriculture

Protection of our agricultural resources is of paramount importance for the Agricultural Commissioner's office. To protect our crops from non-native insects, a year round trapping program monitors for invasive pests. To maintain this program, the County employs 28 seasonal pest detection surveyors. These individuals are responsible for the placement, monitoring and identification of suspect pests from over 29,300 traps placed throughout the County. The Pest Exclusion unit has five full-time and one part-time biologist as well as a Plant Detection dog. Responsibilities include daily inspections of arriving plant material at parcel facilities, nurseries and private residences. Thousands of inspections are performed annually to keep the County free of non-native pests.

Here are some of the traps you might see around the county:

Jackson traps are a simple but effective means to trap a number of insects of concern, including the Oriental Fruit Fly, Mediterranean Fruit Fly, Melon Fruit Fly, and Light Brown Apple Moth (LBAM). A lure or bait specific to the insect of interest is placed in the trap, along with a sticky cardboard insert.

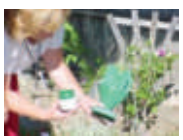
Red delta-shaped traps, like the one pictured to the right, are deployed specifically to monitor for presence of the European Grapevine Moth (EGVM), a serious invasive pest of grapes. During the 2013 EGVM detection season, over 4,500 traps were placed in the County and monitored by 10 trappers every 2 weeks from March through July. EGVM was not detected in 2013.

The Gypsy Moth has been established in the eastern US since the mid 1800's, but has so far been prevented from becoming established in California. Trappers deploy a green delta trap with a pheromone strip to attract male moths. In 2013, 250 Gypsy Moth traps were monitored throughout the county and none were found.

Yellow panel traps are primarily used for detection of the Glassy-Winged Sharpshooter (GWSS). GWSS spreads Pierce's Disease in grapes. This is the thirteenth year the County has had a GWSS prevention program. The GWSS unit monitors over 3,000 detection traps and inspected over 2,000 incoming plant shipments in 2013.

Bell shaped glass traps, known as McPhail traps, holds a water and yeast mixture which attracts flies such as the Caribbean Fruit Fly and Mexican Fruit Fly. These two species are capable of damaging most of the fruits and vegetables grown in California. Trappers choose trap location carefully for maximum effectiveness, and check the traps weekly.

Japanese Beetles, an established fruit, vegetable, ornamental and turf pest east of the Mississippi, has thus far successfully been prevented from building up a population in California. Our county placed and monitored 250 traps in 2013 and had no finds.



ALMOND AND WALNUT INTERESTING FACTS AND TRIVIA

Almonds

- On average, a mature almond tree will produce 16 pounds of almonds annually which requires 124 trees per acre to produce one ton of almond meats.
- The average life of an almond orchard is 25 years.
- There are over 25 different varieties of almonds grown in the San Joaquin Valley with Nonpareils, California and Mission varieties topping the list.
- California is the only state to commercially produce almonds.
- In the year 2000 the U.S. became the world's largest supplier of almonds.
- China is the largest importer of U.S. almonds.
- Almond hulls are used as a protein source in livestock feeds.
- Almond shells are used in co-generation plants as fuel for energy production.
- It takes 1000 pounds of almonds to make 1 pint of almond oil.

Walnuts

- On average, a mature walnut tree will produce 79 pounds of walnuts annually. Planting 76 trees per acre will produce approximately 6000 pounds per acre.
- English walnuts originated in Persia where only the royalty were allowed to consume.
- Walnuts are the oldest known food tree dating back to 7000 B.C.
- There are over 30 known varieties of walnuts with Chandler, Howard, Tulare, and Hartley being the most common.
- In 1867, California's first commercial planting of walnuts took place near Santa Barbara. Seventy years later, in a historical horticultural move, the Central Valley production began.
- Franciscan priests brought walnuts to California in the late 1700's, and today California walnuts account for 99% of U.S. and 75% of the world's production.

GENERAL SAN JOAQUIN COUNTY INFORMATION

County Seat:	Stockton
County Population (2013 Census):	704,379
Population per Square Mile:	506
Incorporated Cities (7):	
Escalon, Lathrop, Lodi, Manteca, Ripon, Stockton, Tracy	
Land Area (Square Mile):	1,391
Land Area in Farms (Acres – 2012 Census):	787,015
Total Crop Land (Acres – 2012 Census):	517,918
Irrigated Crop Land (Acres – 2012 Census):	485,402
Number of Farms (2012 Census):	3,580
Average Size of Farms (Acres – 2012 Census):	220
Agriculture Work Force (Monthly Average – 2012 Census):	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):	47
Average July Temperature (F):	79
Average Annual Rainfall:	

North County:	13 Inches	South County: 11 Inches
East County:	13 Inches	West County: 12 Inches

A SPECIAL “THANK YOU”

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

San Joaquin Farm Bureau Federation **and** American AgCredit

for their contributions to the 2013 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.

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