



**KINGS COUNTY
AGRICULTURAL CROP REPORT
2013**

ALMONDS

Since its introduction into the Golden State, almonds have blossomed into one of California's leading commodities. Originating from the Mediterranean region, almonds first arrived in California with the Spanish padres who came to build missions. However, these pioneering almonds did not adapt well to their new climatic environment. It wasn't until the 1880s that local varieties were developed and started becoming commercially viable.

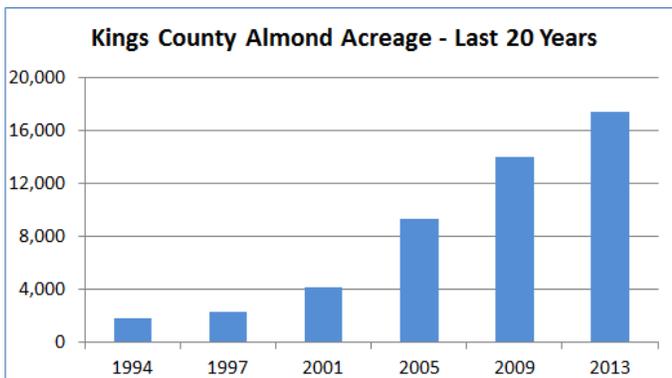
California wasn't the first state to attempt growing almonds commercially. Previous attempts occurred in other regions of the United States, including New England and the Southwest, starting in the 1840s. It was thought that since almonds were related to peaches, they should be able to grow anywhere that peaches could. Growers soon learned that almond trees could not tolerate late frosts or high humidity, which resulted in diseases. Ultimately, it was determined that California with its Mediterranean climate was most suitable for the nut to thrive.

Since its commercial start in California, almond production has improved steadily. Statewide production in 1888 was about 250 tons. In the early 1900s, growers recognized the necessity for cross-pollination with compatible cultivars and statewide production reached nearly 1,600 tons (210 pounds/acre) on about 15,000 total acres. During the 1960s, the yield per acre more than tripled and bearing acreage reached nearly 100,000 acres. Throughout this time, changes in irrigation and the shift from hand to mechanical harvesting methods occurred. In the following 20 years, California almond production spread from the Sacramento Valley to the San Joaquin Valley, increasing acreage to 400,000 acres. Production boomed again starting in the late 1990's, totaling over 1 million tons on 876,000 acres in 2011, with yields reaching over 2,000 pounds per acre.

The sharp jumps in total production over the years may not only be an effect of a greater understanding of pollination and irrigation, but also an increase in the demand due to a coordinated marketing effort emphasizing product development and the nut's health benefits. Almonds can be enjoyed whole or in its numerous processed forms such as almond milk, butters, oils, in flours and cereals, or even as sliced and chopped garnishments in baked goods. Many people also enjoy eating the nuts green (unripe) in salads and other dishes, as well as pickled.

Almonds are promoted as part of a healthy lifestyle by highlighting its nutritional benefits. They have demonstrated benefits in weight management and reducing risk of heart disease. They contain 12 vitamins and minerals including 6 essential nutrients and provide a gluten and cholesterol-free snack. Compared to other tree nuts, almonds are the highest in protein, fiber, and calcium.

Currently, almonds are California's largest tree nut crop in total dollar value and acreage and represents approximately 80% of the world's production. In 2012 they were the state's top agricultural export valued at \$2.5 billion. In 2013 Kings County's harvested acreage approached 18,000 acres, with another 4,000 acres not yet producing. It is one of the county's top producing commodities, valued at over \$116 million in 2013. Locally, the impact of greater almond revenues has created a rise in the demand for land suitable for almonds, resulting in higher land prices. Fortunately, future prospects for almonds appear positive as foreign demand for the popular nut is expected to increase along with the growing middle class in Asia. China is the top foreign destination where annual consumption for California almonds has reached 208 million pounds. As long as production can keep up with the expanding demand for the nut, almonds will continue to be one of California's and Kings County's top commodities.





Department of Agriculture / Measurement Standards

TIM NISWANDER
Agricultural Commissioner
Sealer of Weights and Measures

May 20, 2014

Secretary Karen Ross
California Department of Food and Agriculture
and
The Honorable Board of Supervisors
County of Kings, California

It is my privilege to submit to you the 2013 Annual Agricultural Crop Report for the County of Kings. This report contains statistical information on the acreage, yield and gross values in accordance with Sections 2272 and 2279 of the California Food and Agricultural Code. The numbers in this report are gross values and do not represent net income or loss to producers.

The gross value of all agricultural crops and products produced during 2013 in Kings County was \$2,267,178,000. This represents an increase of \$52,164,000 (2.4%) from the 2012 value.

Fruit and Nut Crops had the largest increase in value at \$101,229,000 (24.5%) due mainly to higher nut prices and production. Livestock and Poultry Products increased \$72,612,000 (10.3%) due primarily to increases in milk prices. Seed Crops increased \$4,416,000 (75.4%) due mainly to an increase in acreage. Apiary Products increased in value \$829,000 (11.9%) attributed to both an increase in the pollination price (per colony) and higher honey prices.

Livestock and Poultry had the largest decrease in value at \$52,498,000 (19.8%) due mainly to lower beef prices. Field Crops decreased in value \$43,229,000 (6.8%) due primarily to less acreage. Vegetable Crops decreased in value \$31,195,000 (16.9%) due primarily to lower processing tomato production.

Milk continues to be the top commodity with a value of \$773,219,000 in 2013.

My thanks and appreciation is extended to the many producers and organizations who contributed information for this report. This report was compiled and prepared by Janet Eckles, Agricultural and Standards Inspector, Sonya Hernandez, Agricultural and Standards Inspector and Steve Schweizer, Deputy Agricultural Commissioner/Sealer, with assistance from Carey Smith, Agricultural and Standards Aide, and Joe Oliveira, Agricultural and Standards Aide.

Respectfully Submitted,

Tim Niswander

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COUNTY ADMINISTRATION AG COMMISSIONER - SEALER PERSONNEL

Kings County Board of Supervisors

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Doug Verboon..... District III Tony Barba..... District IV
Richard Fagundes..... District V

County Administrative Officer

Larry Spikes

Agricultural Commissioner - Sealer of Weights and Measures

Tim Niswander

Deputy Agricultural Commissioner - Sealers

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Agricultural and Standards Inspectors

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Sonya Hernandez Michael Leoni Andrea Oilar
Bruce Perez Rafael Perla Alfredo Prieto Robert Torrez Shanna Vickers

Agricultural Computer Systems Coordinator

Lynda Schrupf

Agricultural and Standards Aides

Joe Oliveira Randall Bray Carey Smith

Executive Secretary

Jennifer Rios

Account Clerk

Colleen Holloway

Office Assistants

Teri Stephens Sue Shanahan
Kayla Delgado

FIELD CROPS

Crop	Year	Harvested Production			Unit	Value	
		Acres	Per Acre	Total		Per Unit	Total
Alfalfa, Hay	2013	45,777	8.13	372,167	TON	\$219.00	\$81,505,000
	2012	53,098	7.52	399,297	TON	\$214.00	\$85,450,000
Alfalfa, Silage	2013	2,101	3.27	6,870	TON	\$45.10	\$310,000
	2012	2,390	4.13	9,871	TON	\$46.30	\$457,000
Alfalfa, Silage All Year	2013	1,699	36.46	61,946	TON	\$46.10	\$2,856,000
	2012	2,461	35.17	86,553	TON	\$43.00	\$3,722,000
Alfalfa, Stubble	2013	11,444				\$25.00	\$286,000
	2012	13,275				\$25.00	\$332,000
Beans, Dry	2013	920	1.57	1,444	TON	\$859.00	\$1,240,000
	2012	996	1.53	1,524	TON	\$1,044.00	\$1,591,000
Corn Grain	2013	3,150	6.45	20,318	TON	\$226.00	\$4,592,000
	2012	6,523	6.18	40,312	TON	\$260.80	\$10,513,000
Corn Silage	2013	55,087	25.67	1,414,083	TON	\$49.20	\$69,573,000
	2012	58,243	25.94	1,510,823	TON	\$49.50	\$74,786,000
Cotton, Acala - Lint a/	2013	11,181	3.23	36,115	BALE	\$566.00	\$20,441,000
	2012	17,501	3.72	65,104	BALE	\$499.00	\$32,487,000
Cotton, Acala - Seed	2013			15,636	TON	\$400.00	\$6,254,000
	2012			28,176	TON	\$390.00	\$10,989,000
Cotton, Pima - Lint a/	2013	92,269	3.18	293,415	BALE	\$833.00	\$244,415,000
	2012	99,651	3.57	355,754	BALE	\$641.00	\$228,038,000
Cotton Pima - Seed	2013			126,994	TON	\$370.00	\$46,988,000
	2012			154,103	TON	\$360.00	\$55,477,000
Oat, Hay	2013	1,892	3.52	6,660	TON	\$147.00	\$979,000
	2012	4,326	3.22	13,930	TON	\$163.00	\$2,271,000
Oat, Silage b/	2013	838	9.43	7,902	TON	\$31.40	\$248,000
	2012						

FIELD CROPS

Crop	Year	Harvested Production		Total	Unit	Value	
		Acres	Per Acre			Per Unit	Total
Pasture, Range	2013	285,076				\$3.90	\$1,112,000
	2012	261,590				\$2.03	\$531,000
Sorghum, Silage	2013	12,588	16.72	210,471	TON	\$37.60	\$7,914,000
	2012	10,982	15.80	173,516	TON	\$39.40	\$6,837,000
Sudan, Hay	2013	395	2.78	1,098	TON	\$139.00	\$153,000
	2012	817	4.72	3,856	TON	\$140.00	\$540,000
Triticale, Silage	2013	3,745	13.65	51,119	TON	\$42.50	\$2,173,000
	2012	4,028	16.94	68,234	TON	\$40.30	\$2,750,000
Wheat, Hay b/	2013	688	5.14	3,536	TON	\$163.00	\$576,000
	2012				TON		
Wheat, Grain	2013	45,872	3.02	138,533	TON	\$290.00	\$40,175,000
	2012	57,431	3.35	192,394	TON	\$286.00	\$55,025,000
Wheat, Silage	2013	50,751	17.29	877,485	TON	\$40.90	\$35,889,000
	2012	57,489	15.75	905,452	TON	\$40.40	\$36,580,000
Other c/	2013	62,236					\$24,036,000
	2012	64,582					\$26,568,000
TOTAL	2013	687,709					\$591,715,000
	2012	715,383					\$634,944,000

a/ 1 bale = 495 lbs.

b/ Previously included in "Other"

c/ Includes barley grain, barley hay, barley silage, corn earlidge, forage, hay-other, pasture irrigated, rye-grass, safflower, sudan silage, sugar beets-silage, triticale grain, and wheat straw.

*The Romans showered newlyweds with
almonds as a fertility charm.*

FRUIT & NUT CROPS

Crop	Harvested Production			Value			
	Year	Acres	Per Acre	Total	Unit	Per Unit	Total
Almond	2013	17,412	1.21	21,069	TON	\$5,530.00	\$116,512,000
	2012	16,760	1.03	17,263	TON	\$4,870.00	\$84,071,000
Almond Hulls	2013			42,258	TON	\$139.00	\$5,874,000
	2012			34,466	TON	\$143.00	\$4,929,000
Almond Shells	2013			10,565	TON	\$28.70	\$303,000
	2012			8,617	TON	\$21.80	\$188,000
Apricots	2013	932	6.58	6,132	TON	\$1,750.00	\$10,731,000
	2012	941	3.38	3,181	TON	\$2,090.00	\$6,648,000
Cherries	2013	1,434	3.52	5,048	TON	\$4,700.00	\$23,726,000
	2012	1,504	2.93	4,407	TON	\$4,400.00	\$19,391,000
Firewood a/	2013						
	2012			222	CORD	\$123.00	\$27,000
Grapes, Raisin	2013	2,155	2.19	4,719	TON	\$1,740.00	\$8,211,000
	2012	1,999	2.12	4,238	TON	\$1,780.00	\$7,544,000
Grapes, Table	2013	940	14.41	13,545	TON	\$1,430.00	\$19,369,000
	2012	980	13.08	12,818	TON	\$1,500.00	\$19,227,000
Grapes, Wine	2013	4,276	13.63	58,282	TON	\$327.00	\$19,058,000
	2012	4,106	12.91	53,008	TON	\$315.00	\$16,698,000
Grapes, Other b/	2013						
	2012	11	11.00	121	TON	\$330.00	\$40,000
Grapes, Total	2013	7,371					\$46,638,000
	2012	7,096					\$43,509,000
Nectarines	2013	1,961	9.66	18,943	TON	\$944.00	\$17,882,000
	2012	2,010	7.18	14,432	TON	\$1,450.00	\$20,926,000

FRUIT & NUT CROPS

Crop	Harvested Production			Value			
	Year	Acres	Per Acre	Total	Unit	Per Unit	Total
Peaches, Cling	2013	1,125	16.32	18,360	TON	\$452.00	\$8,299,000
	2012	922	15.60	14,383	TON	\$291.00	\$4,185,000
Peaches, Freestone	2013	2,148	10.29	22,103	TON	\$886.00	\$19,583,000
	2012	2,243	6.84	15,342	TON	\$1,720.00	\$26,388,000
Peaches, Freezer c/	2013						
	2012	296	17.38	5,144	TON	\$287.00	\$1,476,000
Peaches, Total	2013	3,273					\$27,882,000
	2012	3,461					\$32,049,000
Pistachios	2013	18,284	1.23	22,489	TON	\$4,900.00	\$110,196,000
	2012	16,159	1.28	20,684	TON	\$4,130.00	\$85,425,000
Plums	2013	2,228	6.55	14,593	TON	\$1,110.00	\$16,198,000
	2012	2,012	2.70	5,432	TON	\$2,170.00	\$11,787,000
Walnuts	2013	14,063	2.02	28,407	TON	\$3,460.00	\$98,288,000
	2012	13,054	2.15	28,066	TON	\$3,060.00	\$85,882,000
Other d/	2013	7,006					\$39,642,000
	2012	5,022					\$17,811,000
TOTAL	2013	73,964					\$513,872,000
	2012	68,019					\$412,643,000

a/ Currently included in "Other"

b/ No acreage reported

c/ Merged category into Peaches Cling and Freestone in 2013

d/ Includes apples, blackberries, blueberries, firewood, jujube, kiwifruit, oranges, olives, pears, pecans, persimmons, pluots, pomegranates, prunes, quince, strawberries, and tangerines.

Americans give wedding guests a bag of sugared almonds, representing children, happiness, romance, good health, and fortune.

SEED CROPS

Crop	Year	Harvested Production		Total	Unit	Value	
		Acres	Per Acre			Per Unit	Total
Seed Crops a/	2013	9,840					\$10,274,000
	2012	1,079					\$5,858,000

a/ Includes alfalfa certified, asparagus, cotton certified, flower, lettuce, and onion.

VEGETABLE CROPS

Crop	Year	Harvested Production		Total	Unit	Value	
		Acres	Per Acre			Per Unit	Total
Tomatoes, Processed	2013	33,447	42.74	1,429,525	TON	\$68.20	\$97,494,000
	2012	36,008	51.59	1,857,653	TON	\$69.30	\$128,735,000
Other a/	2013	15,498					\$55,495,000
	2012	11,794					\$55,449,000
TOTAL	2013	48,945					\$152,989,000
	2012	47,802					\$184,184,000

a/ Includes asparagus, bell peppers, broccoli, cabbage, cantaloupe, carrots, cauliflower, corn sweet, garlic processed, miscellaneous melons, onions fresh, onions processed, parsley, radicchio, squash, tomatoes fresh, tomato transplants, and watermelons.

ORGANIC PRODUCTION

Kings County had 24 certified organic producers, four organic handlers, and two new registrations in 2013. Farming on 18,734 acres, growers produced more than 60 organic crops including various nuts, tree fruits, vegetables, flowers, herbs, specialty crops, and organic fallow farmland. The crop values are included in their respective commodity groups.

Organic producers, handlers, and processors follow production standards for growing, storage, and processing that preserve the integrity of organic agricultural products. Registration through the California Department of Food and Agriculture (CDFA) Organic Program is now available online.



INVENTORIES OF LIVESTOCK & POULTRY

Item	December, 2013 Number of Head	December, 2012 Number of Head
Cattle and Calves		
All	345,000	343,000
Dairy Cows 2 Years and Over	179,408	178,323
Cattle and Calves on Feed	7,000	7,000
Other	158,592	157,677
Sheep and Lambs		
Goats	12,953	12,945
Hogs and Pigs	11,020	8,060
Turkeys	146	133
	402,891	535,049

LIVESTOCK & POULTRY

Item	Year	Number of Head	Total Liveweight	Unit	Value Per Unit	Total
Cattle and Calves a/	2013	261,376	2,836,479	Cwt.	\$63.20	\$179,265,000
	2012	265,328	2,873,353	Cwt.	\$78.30	\$224,984,000
Turkeys	2013	1,611,566	36,677,355	lb.	\$0.88	\$32,276,000
	2012	2,140,197	49,956,522	lb.	\$0.78	\$38,966,000
Other b/	2013	30,296				\$1,509,000
	2012	30,068				\$1,598,000
TOTAL	2013	1,903,238				\$213,050,000
	2012	2,435,593				\$265,548,000

a/ Includes breeding stock value in total.

b/ Includes chickens, goats, hogs, pigs, sheep, and lambs.

*In Sweden, cinnamon-flavored rice pudding with
an almond hidden inside is a Christmas custom.
Find it, and good fortune is yours for a year!*

LIVESTOCK & POULTRY PRODUCTS

Item	Year	Total Production	Unit	Value Per Unit	Total
Manure	2013	761,687	Ton	\$5.43	\$4,136,000
	2012	1,548,648	Ton	\$6.92	\$10,717,000
Milk, Market	2013	42,260,547	Cwt.	\$18.20	\$769,142,000
	2012	42,491,167	Cwt.	\$16.25	\$690,481,000
Milk, Mfg.	2013	41,268	Cwt.	\$18.90	\$780,000
	2012	54,098	Cwt.	\$18.56	\$1,004,000
Milk, Goats	2013	90,339	Cwt.	\$36.50	\$3,297,000
	2012	67,928	Cwt.	\$36.76	\$2,497,000
Milk Total	2013	42,392,154	Cwt.		\$773,219,000
	2012	42,613,193	Cwt.		\$693,982,000
Wool a/	2013	84,195	Lb.	\$1.45	\$122,000
	2012	103,560	Lb.	\$1.60	\$166,000
TOTAL	2013				\$777,477,000
	2012				\$704,865,000

a/ Price does not include wool incentive

Interesting Note...

In 2012, cow No. 2518 from the Lu/Ar Dairy became the most prolific milk producing cow in Kings County history by producing over 469,188 pounds (approximately 54,557 gallons) of milk over her lifetime. This record surpassed the long-standing record of cow No. 289 from the M.G. Maciel & Son Dairy by approximately 487 gallons.

APIARY PRODUCTS

Item	Year	Total Production	Unit	Value Per Unit	Total
Honey	2013	405,893	Lb.	\$2.07	\$840,000
	2012	383,600	Lb.	\$1.57	\$602,000
Beeswax	2013	9,076	Lb.	\$3.21	\$29,100
	2012	9,200	Lb.	\$2.99	\$27,500
Seed Alfalfa	2013	4,857	Colonies	\$77.50	\$376,000
	2012	2,100	Colonies	\$50.00	\$105,000
Tree Fruit & Nuts a/	2013	42,377	Colonies	\$152.00	\$6,441,000
	2012	41,071	Colonies	\$150.00	\$6,161,000
Melons	2013	862	Colonies	\$35.00	\$30,200
	2012	1,078	Colonies	\$30.00	\$32,300
Vegetable Seed	2013	1,412	Colonies	\$60.00	\$84,700
	2012	1,765	Colonies	\$25.00	\$44,100
TOTAL	2013				\$7,801,000
	2012				\$6,972,000

a/ Includes almonds, apricots, cherries, pluots, and plums.

AGRICULTURAL QUICK FACTS

Kings County is ranked 8th among California counties in agricultural production. (2012)

Kings County is ranked 1st among California counties in the production of cotton lint and cottonseed. (2012)

Kings County is ranked 2nd among California counties in the production of tomatoes (processing) and wheat (excluding seed). (2012)

Kings County is ranked 3rd among California counties in the production of apricots and nectarines. (2012)

Kings County is ranked 4th among California counties in the production of milk and cream, silage, turkeys, and plums. (2012)

Kings County is ranked 5th among California counties in the production of pistachios and peaches. (2012)

Information based on 2012 County Agricultural Commissioners' Crop Reports

5 YEAR COMPARISON OF ACREAGE AND CROP VALUES

	2013	2012	2011	2010	2009
Apiary Products	\$7,801,000	\$6,972,000	\$6,656,000	\$6,548,000	\$5,982,000
Field Crops	\$591,715,000	\$634,944,000	*\$612,949,000	\$448,935,000	\$312,067,000
 Acreage	687,709	715,383	*717,408	689,758	644,285
Fruit and Nut Crops	\$513,872,000	\$412,643,000	\$412,088,000	\$319,122,000	\$253,440,000
 Acreage	73,964	68,019	63,793	60,200	57,668
Livestock and Poultry	\$213,050,000	\$265,548,000	\$191,853,000	\$161,417,000	\$146,509,000
Livestock and Poultry Products	\$777,477,000	\$704,865,000	\$811,523,000	\$568,050,000	\$418,682,000
Seed Crops	\$10,274,000	\$5,858,000	\$7,485,000	\$7,433,000	\$5,652,000
 Acreage	9,840	1,079	1,732	1,478	3,990
Vegetable Crops	\$152,989,000	\$184,184,000	\$177,015,000	\$206,466,000	*\$177,931,000
 Acreage	48,945	47,802	41,790	51,908	*36,527
TOTAL	\$2,267,178,000	\$2,215,014,000	*\$2,219,569,000	\$1,717,971,000	*\$1,320,263,000

* Revised

AGRICULTURAL EFFICIENCY... Production Per Acre Comparison For Miscellaneous Crops 2013 - 1963

Crop	2013		1963	
	Production/Acre	Unit	Production/Acre	Unit
Corn, Grain	6.45	Tons	2.70	Tons
Corn Silage	25.67	Tons	21.40	Tons
Cotton	3.18	Bales	2.18	Bales
Walnuts	2.02	Tons	1.18	Tons
Wheat	3.02	Tons	1.70	Tons

*King Tutankhamun took several handfuls of almonds to his grave in 1352 B.C.,
to nourish him on his journey into the afterlife.*

TOP 10 COMMODITIES

Crop	2013 Rank	Dollar Value	2012 Rank	2011 Rank	1963 Rank
Milk, Total	1	\$773,219,000	1	1	5
Cotton, Total	2	\$318,098,000	2	2	1
Cattle and Calves	3	\$179,265,000	3	3	2
Almonds, Total	4	\$122,689,000	6	7	34
Pistachios	5	\$110,196,000	8	6	n/a
Walnuts	6	\$98,288,000	7	9	15
Tomatoes, Processed	7	\$97,494,000	4	4	n/a
Alfalfa, Total	8	\$84,957,000	5	5	4
Corn, Silage	9	\$69,573,000	9	8	14
Grapes, Total	10	\$46,638,000	11	10	9

A Look Back, 50 Years Ago.....1963 Kings County's Top 10 Commodities

Crop	Rank	Dollar Value
Cotton, Total	1	\$37,285,000
Cattle and Calves	2	\$22,299,000
Barley, Grain	3	\$15,870,591
Alfalfa, Total	4	\$13,749,272
Milk, Total	5	\$11,575,000
Safflower, Total	6	\$2,814,000
Sugar Beets	7	\$1,990,000
Peaches	8	\$1,826,200
Grapes, Total	9	\$1,659,000
Cantaloupe	10	\$1,498,000
Total		\$110,566,063

Kings County's crop value in 1963 totaled \$122,598,484

Persians and Arabs made a "milk" of almond meal and water, which they valued both as a refreshing drink and as an ingredient in other foods.

SUSTAINABLE AGRICULTURAL REPORT

County Biological Control

Pest	Agent/Mechanism	Scope of Program
Puncture Vine <u>Tribulus terrestris</u>	Stem Mining Weevil <u>Microlarinus lypriformi</u>	Generally Distributed
	Seed Head Weevil <u>Microlarinus lareynil</u>	Generally Distributed
Yellow Starthistle <u>Centaurea solstitialis</u>	Seed Head Weevil <u>Bangasternus orientalis</u>	Generally Distributed
	Gall Fly <u>Urophora sirunaseva</u>	Generally Distributed
	Hairy Weevil <u>Eustenopus villosus</u>	Generally Distributed
Ash Whitefly <u>Siphoninus phillyreae</u>	Parasitic Wasp <u>Encarsia parenorea</u>	Generally Distributed
Red Gum Lerp Psyllid <u>Glycaspis brimblecombei</u>	Parasitic Wasp <u>Psyllaephagus bliteus</u>	Generally Distributed
Silverleaf Whitefly <u>Bemisia argentifolii</u>	Parasitic Wasp <u>Eretmocerus sp.(M95104)</u>	Generally Distributed
	<u>Eretmocerus sp.(M95012)</u>	Generally Distributed
	<u>Eretmocerus mundus</u>	Generally Distributed

County Pest Exclusion

Pest	Agent/Mechanism	Scope of Program
Glassy Winged Sharpshooter	Nursery Inspections	564 Shipments Inspected
Gypsy Moth <u>Lymantria dispar</u>	Household Goods Shipments	7 Shipments Inspected
Various Pests	Truck Shipments	64,075 Units Inspected
Imported Red Fire Ant		
Crops	Activity	Scope of Program
Export Commodities	Phytosanitary Certification	1,522 Issued
Export Seed	Field Inspections	91 Sites / 703 Acres

SUSTAINABLE AGRICULTURAL REPORT

County Pest Eradication

Pest	Agent/Mechanism	Scope of Program
Pink Bollworm <u>Pectinophora gossypiella</u>	Mechanical/Host Free Period	97,320 Acres
Alligatorweed <u>Alternanthera philoxeroides</u>	Visual Inspection Mechanical/Chemical	49 Sites Treated

County Pest Detection

Pest	Number of Traps	Number of Servicing	Type of Trap
All Purpose Fruit Fly	114	882	Champ
Asian Citrus Psyllid	119	115	Yellow Panel
European Corn Borer	13	144	Pherocon II
European Grape Vine Moth	535	6,884	Delta
European Pine Shoot Moth	4	9	Pherocon II
Glassy Wing Sharpshooter	70	824	Yellow Panel
Gypsy Moth	69	99	Delta
Japanese Beetle	69	99	Japanese Beetle
Khapra Beetle	180	171	Trogo
Light Brown Apple Moth	150	1,763	Jackson
Mediterranean Fruit Fly	150	1,763	Jackson
Melon Fly	68	613	Jackson
Mexican Fruit Fly	94	2,007	McPhail
Oriental Fruit Fly	150	1,763	Jackson
Total	1,785	17,136	



Jackson Trap



McPhail Trap

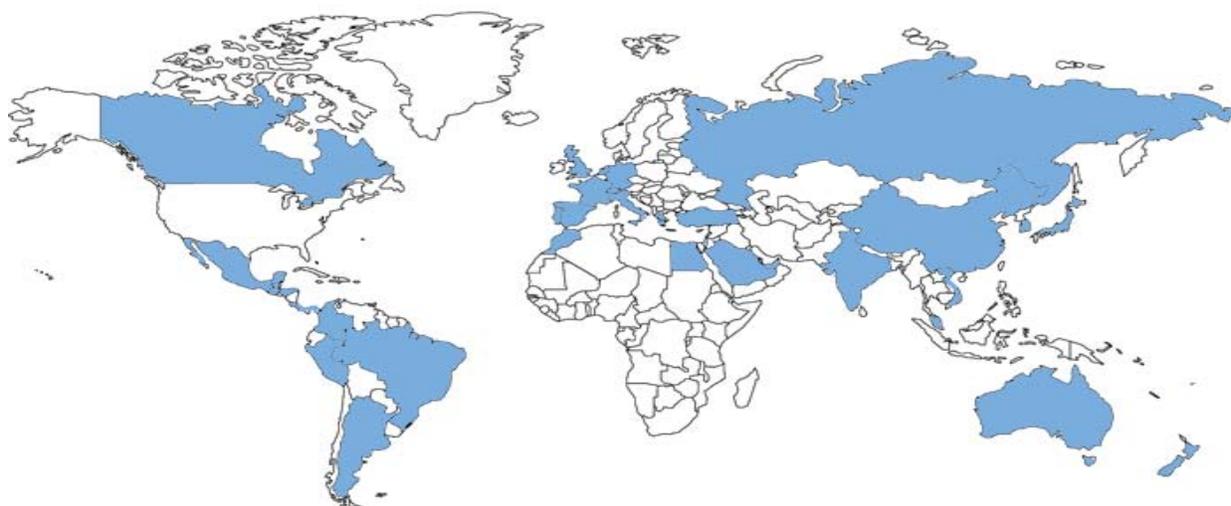


Japanese Beetle Trap

EXPORT COMMODITIES

Commodities Grown and Exported From Kings County

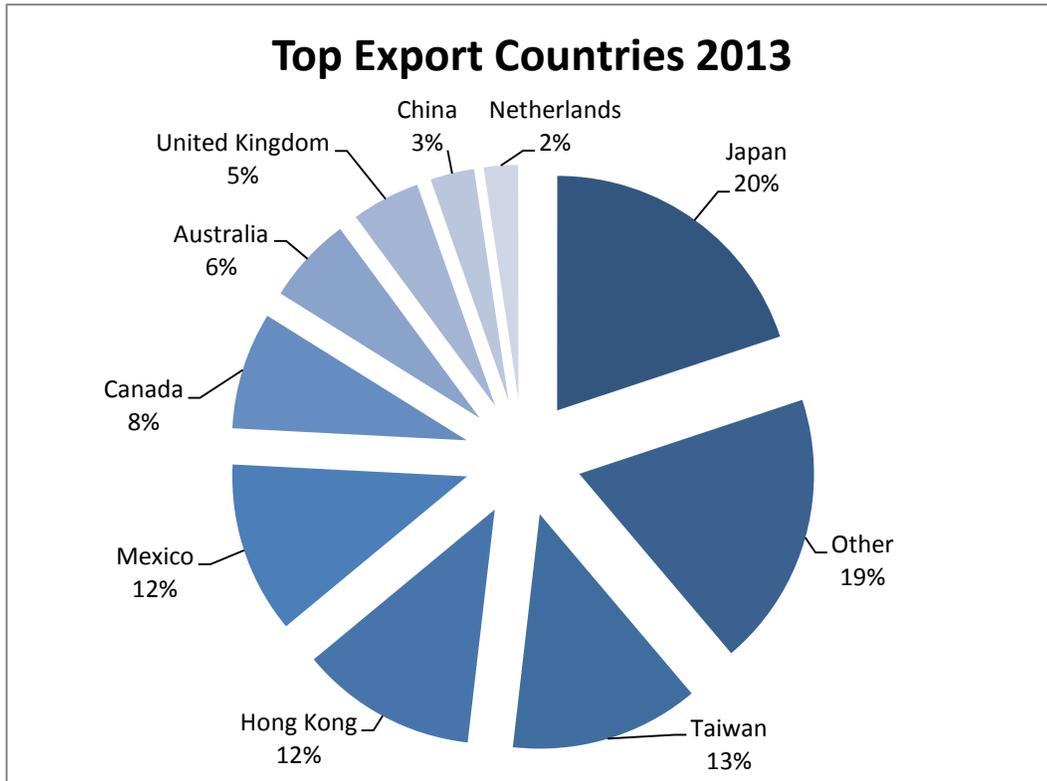
Alfalfa Seed	Cotton Seed	Persimmon
Almonds	Garlic	Pistachios
Apricots	Grapes	Plums
Asparagus Seed	Kiwis	Pluots
Blueberries	Nectarines	Sudangrass
Cherries	Onions	Sweet Corn
Cotton	Onion Seed	Walnuts
	Peaches	



Export Trade Partners of Kings County in 2013

Argentina	Honduras	Panama
Australia	Hong Kong	Peru
Bahrain	India	Portugal
Brazil	Israel	Qatar
Canada	Italy	Russian Federation
China	Japan	Saudi Arabia
Colombia	Korea, Republic of	Singapore
Costa Rica	Kuwait	Spain
Egypt	Luxembourg	Switzerland
El Salvador	Malaysia	Taiwan
Fiji	Mexico	Turkey
France	Morocco	United Arab Emirates
Germany	Netherlands	United Kingdom
Greece	New Zealand	Vietnam
Guatemala		

EXPORT PARTNERS



FAIRS AND EXPOSITIONS



801 S. 10th Ave. Hanford, CA 93230
Phone (559) 584-3318

CERTIFIED FARMERS MARKET

Thursday Night Market Place
May thru September
Thursdays, 5:30 P.M. to 9:00 P.M.
Irwin Street
Hanford, CA 93230

Lemoore Tuesday Night Market
July thru October
Tuesdays, 5:00 P.M. to 9:00 P.M.
D Street
Lemoore, CA 93245

Commodities grown by Kings County Certified Producers

Almonds	Fresh Cut Flowers	Pecans
Apples	Garlic	Peppers
Apricots	Grapefruit	Persimmons
Apriums	Grapes	Pistachios
Artichokes	Green Beans	Plums
Arugula	Herbs, Assorted	Pluots
Asparagus	Kale	Pomegranates
Avocados	Kiwifruit	Pomelos
Beans	Kumquats	Potatoes
Beets	Leeks	Pumpkins
Bell Peppers	Lemons	Quince
Blackberries	Lettuce	Radishes
Blueberries	Limes	Raisins
Bok Choy	Mandarins	Shallots
Broccoli	Melons	Soybeans
Cabbage	Mistletoe	Spinach
Cactus	Mustard	Squash
Cantaloupes	Nectarines	Strawberries
Carrots	Okra	Sweet Potato
Cauliflower	Olives	Swiss Chard
Cherries	Onions	Tangelos
Chestnuts	Oranges	Tangerines
Cilantro	Ornamental Plants	Tay Berries
Corn	Peaches	Tomatoes
Cucumbers	Peanuts	Walnuts
Eggplant	Pears	Watermelon
Figs	Peas	Zucchini

LAND USE

Surrounding Counties	2012 Rank	2012 Gross Value*	Total County Area Acres	Top Commodity	2012 Value
Fresno	1	\$6,587,794,000	3,840,000	Almonds	\$875,706,000
Kern	2	\$6,212,362,000	3,112,320	Grapes	\$1,331,097,000
Tulare	3	\$6,210,694,000	5,166,720	Milk	\$1,807,696,000
Monterey	4	\$4,137,863,000	2,127,359	Strawberries	\$768,592,000
Kings	8	\$2,215,014,000	890,785	Milk	\$693,982,000

* Gross Value does not include timber. Values based on annual crop reports.

LAND USE SUMMARY

Land Use Category	2012		2010		Acreage Change
	Acres	Percent	Acres	Percent	
Prime Farmland	118,449	13	130,258	15	-11,809
Farmland of Statewide Importance	376,869	43	388,891	44	-12,022
Unique Farmland	19,864	2	21,802	2	-1,938
Farmland of Local Importance	11,152	1	11,136	1	+16
Grazing Land	295,809	33	271,830	31	+23,979
Urban and Built-Up Land	36,640	4	35,847	4	+793
Other Land	31,940	4	30,959	3	-981
Water Area	62	0	62	0	0
Total Acres	890,785		890,785		

Most recent available data from the California Department of Conservation

Nomads created a trail mix of ground almonds, chopped dates, bits of pistachios, sesame oil and bread crumbs. Rolled into balls, this mixture sustained them on long journeys.

KINGS COUNTY GENERAL INFORMATION

County Seat	Hanford
County Population (1/1/2013)	152,007*
Population per Square Mile	109
Total Assessed Value (2013)	\$8,950,381,012
Land Area (Square Miles)	1,392
Total Acres	890,785**
Total Harvested Crop Acreage (2013)	820,458
Total Farmland	822,143**
Public Ownership of Land (Acres - 2008)	
Federal	27,313.76
State	4,015.99
County	1,421.61
Local Agencies	3,587.01

Agricultural production ranked 8th among California counties (based on 2012 total value).

Railroads - Burlington Northern Santa Fe, Union Pacific & San Joaquin Railroad.

Major Roads - Interstate 5, Highway 41, Highway 43 & Highway 198.

Water Sources - Kings River, Tule River, Kaweah River, Kern River & California Aqueduct.

Elevation - 175 feet above sea level at Tulare Lake to 3500 feet above sea level at the Kings/Monterey County line boundary.

Average length of growing season: 257 days.

Average climate: 196 sunny clear days, 74 partly cloudy days & 95 cloudy days.

Average date of last spring frost: March 3.

Average date of first fall frost: November 18.

*Courtesy of the California Department of Finance (Estimate)

**Courtesy of the California Department of Conservation

RAINFALL - HANFORD, CA

YEAR	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1963-64	0.00	0.00	0.33	0.75	1.23	0.31	0.61	0.02	0.94	0.64	0.20	0.17	5.20
1964-65	0.00	0.34	0.00	0.95	1.31	1.44	1.18	0.33	0.33	1.57	0.00	0.00	7.45
1965-66	0.00	0.05	0.07	0.05	2.15	1.97	0.63	0.71	0.10	0.00	0.07	0.00	5.80
1966-67	0.04	0.00	0.29	0.09	1.28	2.57	1.41	0.05	2.42	2.95	0.07	0.06	11.23
1967-68	0.00	0.00	0.31	0.00	1.99	0.50	0.62	0.64	1.00	0.50	0.08	0.23	5.87
1968-69	0.00	0.00	0.00	1.33	0.98	1.64	6.69	4.54	0.79	0.85	0.32	0.00	17.14
1969-70	0.07	0.00	0.15	0.05	0.51	0.70	1.60	1.33	1.42	0.14	0.00	0.21	6.18
1970-71	0.00	0.00	0.00	0.00	2.40	1.23	0.35	0.19	0.23	0.40	1.44	0.00	6.24
1971-72	0.00	0.00	0.04	0.06	0.41	1.87	0.04	0.35	0.00	0.23	0.00	0.00	3.00
1972-73	0.00	0.00	0.24	0.21	2.90	0.65	2.44	2.29	2.20	0.12	0.00	0.00	11.05
1973-74	0.00	0.00	0.00	0.76	0.46	0.94	2.97	0.13	1.75	0.03	0.00	0.00	7.04
1974-75	0.00	0.00	0.00	0.65	0.24	1.40	0.09	2.26	1.24	0.49	0.00	0.00	6.37
1975-76	0.00	0.00	0.98	0.76	0.05	0.22	0.00	2.94	0.19	1.47	0.03	0.00	6.64
1976-77	0.00	0.22	1.47	0.00	1.15	0.96	0.96	0.03	0.43	0.00	0.01	0.01	5.24
1977-78	0.00	0.00	0.00	0.05	0.06	2.85	2.22	5.05	4.12	1.71	0.00	0.07	16.13
1978-79	0.00	0.00	1.10	0.00	0.79	0.50	1.84	1.61	1.16	0.03	0.00	0.00	7.03
1979-80	0.04	0.00	0.08	0.41	0.62	0.41	2.90	2.71	1.28	0.05	0.04	0.00	8.54
1980-81	0.00	0.00	0.00	0.09	0.00	0.21	1.80	0.86	2.10	0.68	0.17	0.00	5.91
1981-82	0.00	0.00	0.00	0.76	1.08	0.29	0.84	0.33	3.52	1.75	0.00	0.00	8.57
1982-83	0.18	0.00	0.64	1.03	2.15	0.71	3.74	2.59	3.39	1.63	0.04	0.45	16.55
1983-84	0.00	0.05	0.82	0.43	1.66	1.22	0.01	0.42	0.27	0.18	0.00	0.00	5.06
1984-85	0.00	0.00	0.01	0.52	1.41	1.66	0.59	0.61	0.68	0.12	0.01	0.00	5.61
1985-86	0.05	0.00	0.00	0.54	2.11	0.56	1.46	2.60	3.40	0.45	0.00	0.00	11.17
1986-87	0.00	0.00	0.15	0.00	0.21	0.77	1.77	2.04	2.02	0.06	0.13	0.00	7.15
1987-88	0.00	0.00	0.00	0.86	0.72	1.74	1.37	0.40	0.93	2.65	0.07	0.05	8.79
1988-89	0.00	0.00	0.00	0.00	1.33	2.29	1.02	2.03	0.85	0.02	0.39	0.06	7.99
1989-90	0.00	0.00	0.67	0.32	0.20	0.53	1.79	1.02	0.30	0.97	0.87	0.00	6.67
1990-91	0.00	0.66	0.00	0.01	0.22	0.09	0.37	1.32	6.67	0.19	0.66	0.00	10.19
1991-92	0.00	0.00	0.11	0.38	0.14	1.32	1.40	3.32	0.85	0.10	0.00	0.36	7.98
1992-93	0.01	0.00	0.00	0.58	0.00	2.62	3.88	2.48	2.16	0.07	0.08	0.00	11.88
1993-94	0.00	0.00	0.24	0.24	0.68	0.66	1.45	1.02	0.70	0.69	0.00	0.26	5.94
1994-95	0.00	0.00	1.06	0.35	1.54	0.33	4.70	0.51	4.77	0.65	0.87	0.00	14.78
1995-96	0.00	0.00	0.00	0.00	0.00	1.59	1.79	2.55	2.15	0.89	0.16	0.00	9.13
1996-97	0.00	0.00	0.00	1.65	0.87	3.03	3.02	0.12	0.21	0.00	0.00	0.04	8.94
1997-98	0.00	0.00	0.06	0.09	1.96	1.80	2.00	4.05	2.60	1.68	1.31	0.00	15.55
1998-99	0.00	0.00	0.00	0.68	0.63	0.64	3.01	0.56	0.43	1.37	0.00	0.44	7.76
1999-00	0.00	0.00	0.00	0.15	0.00	0.00	1.08	3.28	1.59	0.97	0.48	0.00	7.55
2000-01	0.00	0.00	0.03	1.31	0.00	0.03	1.98	1.48	1.24	1.12	0.00	0.35	7.54
2001-02	0.09	0.00	0.00	0.18	1.84	1.99	0.87	0.31	1.04	0.03	0.01	0.00	6.36
2002-03	0.00	0.00	0.00	0.00	1.42	1.14	0.25	1.13	1.05	1.67	0.67	0.82	8.15
2003-04	0.00	0.00	0.00	0.07	0.47	2.05	0.97	2.32	0.25	0.01	0.02	0.00	6.16
2004-05	0.00	0.00	0.00	2.09	0.44	2.13	2.55	1.69	2.02	0.70	0.84	0.00	12.46
2005-06	0.00	0.00	0.02	0.01	0.21	1.15	3.07	0.48	2.60	2.98	0.54	0.00	11.06
2006-07	0.00	0.00	0.00	0.09	0.16	0.90	0.61	0.90	0.22	0.27	0.01	0.00	3.16
2007-08	0.00	0.05	0.32	0.30	0.10	1.17	1.86	1.10	0.00	0.00	0.10	0.00	5.00
2008-09	0.00	0.00	0.00	0.14	1.03	1.36	0.60	1.43	0.21	0.03	0.43	0.37	5.60
2009-10	0.00	0.00	0.20	1.31	0.23	1.27	2.30	1.93	0.31	1.63	0.32	0.00	9.50
2010-11	0.00	0.00	0.00	0.76	1.24	5.29	0.88	0.96	2.70	0.32	0.41	0.91	13.47
2011-12	0.04	0.00	0.00	0.48	0.71	0.01	0.61	0.43	1.72	1.79	0.03	0.00	5.82
2012-13	0.00	0.00	0.00	0.14	0.34	1.52	0.25	0.42	0.67	0.08	0.18	0.00	5.82
2013-14	0.00	0.00	0.01	0.00	0.26	0.12							
AVERAGE	0.01	0.03	0.19	0.42	0.85	1.24	1.61	1.44	1.46	0.74	0.22	0.10	8.31

50 YEAR AVERAGE RAINFALL