

SUTTER COUNTY CROP & LIVESTOCK REPORT



2019

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OFFICE OF THE
AGRICULTURAL COMMISSIONER
SEALER OF WEIGHTS & MEASURES

LISA D. HERBERT
Agricultural Commissioner
Sealer of Weights and Measures

November 2020

Karen Ross, Secretary
California Department of Food and Agriculture
and
The Honorable Board of Supervisors of Sutter County
Ron Sullenger, District 1, Chairman
Dan Flores, District 2
Mike Ziegenmeyer, District 3
Jim Whiteaker, District 4
Mat Conant, District 5

I am pleased to present the 2019 Crop and Livestock Report for Sutter County. The report is prepared pursuant to Section 2279 of the California Food and Agricultural Code and is a summary representing estimated acreage, yield and gross values. The gross value of Sutter County agricultural production for 2019 was \$698,680,000. This is an increase of \$89,622,000 or 14.7% above the 2018 total value.

Rice remains the top-ranking crop in 2019 with a 22.3% increase in acreage. A slight decrease in yield was offset by an increase in price pushing the total value to \$214,145,000. In second place, walnuts total value increased 48.4% to \$127,526,000 due to an increase in yield and price. Prunes rose one spot to third with increases in acreage, yield and price to a total value of \$62,691,000. Rising to fourth from sixth, processing tomatoes had a 33.6% increase in acreage and slight increase in price to a total value of \$51,666,000. Clingstone peaches fell from third place to fifth due to decreases in acreage and yield to a total value of \$49,984,000. In sixth, nursery products total value fell to \$41,102,000 due to a 38.3 % decrease in quantity sold. Almonds held seventh place with slight decrease in acreage with increases in yield and price to a total value of \$39,866,000.

I would like to express my sincere appreciation for the cooperation of all the growers, organizations and individuals who provided us the data that allows this report to be compiled. Thank you to all my staff, especially Nick Oliver for compiling and analyzing the data. This report represents gross values only and does not reflect net profits or loss to the producers.

To learn more about the Agricultural Commissioner's Office and the services we provide including crop reports dating back to 1940, please visit our website at www.suttercounty.org/doc/government/depts/ag/aghome

Respectfully submitted,

A handwritten signature in blue ink, which appears to read "Lisa D. Herbert".

Lisa D. Herbert
Agricultural Commissioner

MISSION STATEMENT

Our mission is to serve the public's interest by ensuring equity in the marketplace, promoting and protecting agriculture, assuring environmental quality and protecting the health, safety and welfare of Sutter County's citizens.

We fulfill our mission through the following programs: Pest Exclusion, Pesticide Use Enforcement, Pest Detection, Fruit and Vegetable Standardization, Egg Quality Control, Pest Management, Nursery Inspection, Pest Eradication, Seed Inspection, Weights and Measures Enforcement, Predatory Animal Control and other non-regulatory and special services programs.

FRUIT & NUT CROPS

CROP	YEAR	ACRES HARVESTED	PRODUCTION PER ACRE	TOTAL	UNIT	VALUE PER UNIT	TOTAL
Almonds, Meats	2019	11,674	0.73	8,522	Ton	\$4,678	\$39,866,000
	2018	12,369	0.59	7,298	Ton	\$4,543	\$33,155,000
Olives	2019	940	2.70	2,538	Ton	568	1,442,000
	2018	733	2.03	1,488	Ton	724	1,077,000
Peaches, Clingstone	2019	7,993	13.11	104,788	Ton	477	49,984,000
	2018	8,290	15.25	126,423	Ton	473	59,798,000
Prunes, Dried	2019	13,748	2.40	32,995	Ton	1,900	62,691,000
	2018	13,350	2.28	30,438	Ton	1,874	57,041,000
Walnuts, English	2019	37,416	1.63	60,988	Ton	2,091	127,526,000
	2018	37,841	1.54	58,275	Ton	1,475	85,956,000
Miscellaneous ^{1,2}	2019	1,053		4,440	Ton	1,306	5,799,000
	2018	900		3,559	Ton	1,411	5,022,000
Orchard By-Products ³	2019				Ton		6,895,000
	2018				Ton		5,844,000
TOTAL	2019	72,824			Ton		\$294,203,000
	2018	73,483			Ton		\$247,893,000

¹ Includes Apples, Apricots, Berries (Blackberries, Boysenberries & Raspberries), Cherries, Chestnuts, Citrus (Grapefruit, Lemons, Limes, Mandarins, Oranges, Tangerines), Feijoa, Figs, Grapes, Jujubes (Chinese Date), Kiwifruit, Kumquat, Nectarines, Nectarplums, Peaches (Freestone), Peacotum, Pears, Pecans, Persimmons, Pistachio Nuts, Plums, Pluots, Pomegranates, Quince, Strawberries, Walnuts (Black) and other miscellaneous fruit and nut crops of a limited number of growers/processors in Sutter County.

² Persimmons moved to Miscellaneous category for 2018 and 2019 due to insufficient data.

³ Almond Hulls moved to Orchard By-Products category due to insufficient data.

CROP	BEARING ACRES		NON-BEARING ACRES	
	2019	2018	2019	2018
Almonds	11,674	12,369	6,084	2,039
Olives	940	733	0	220
Peaches, Clingstone	7,993	8,290	589	909
Prunes, Dried	13,748	13,350	2,262	2,246
Walnuts, English	37,416	37,841	4,987	4,223
Miscellaneous ^{1,2}	1,053	900	77	66
TOTAL	72,824	73,483	13,999	9,703

¹ Includes Apples, Apricots, Berries (Blackberries, Boysenberries & Raspberries), Cherries, Chestnuts, Citrus (Grapefruit, Lemons, Limes, Mandarins, Oranges, Tangerines), Feijoa, Figs, Grapes, Jujubes (Chinese Date), Kiwifruit, Kumquat, Nectarines, Nectarplums, Peaches (Freestone), Peacotum, Pears, Pecans, Persimmons, Pistachio Nuts, Plums, Pluots, Pomegranates, Quince, Strawberries, Walnuts (Black) and other miscellaneous fruit and nut crops of a limited number of growers/processors in Sutter County.

² Persimmons moved to Miscellaneous category for 2018 and 2019 due to insufficient data.



VEGETABLE CROPS

CROP	YEAR	ACRES HARVESTED	PRODUCTION PER ACRE	TOTAL	UNIT	VALUE PER UNIT	TOTAL
Tomatoes, Processing	2019	15,560	43.69	679,816	Tons	\$76	\$51,666,000
	2018	11,651	45.80	533,616	Tons	\$71	\$37,887,000
Miscellaneous ^{1,2}	2019	613		8,481	Tons		5,146,000
	2018	760		13,386	Tons		5,700,000
TOTAL ²	2019	16,173					\$56,812,000
	2018	12,411					\$43,587,000

2019
\$56,812,000

2018
\$43,587,000

¹ Includes Artichoke, Asparagus, Basil, Beets, Bitter Melons, Bok Choy, Broccoli, Brussels Sprouts, Cabbage, Cantaloupe, Carrots, Cauliflower, Celery, Chard, Cilantro, Collards, Corn (sweet), Cucumbers, Eggplant, Garlic, Gourds, Greens (incl. micro) Green Beans, Herbs, Honeydew, Jicama, Kale, Kohlrabi, Leeks, Lettuce, Melons (Mixed), Mustard, Okra, Onions, Parsnips, Peas, Peanuts, Peppers, Potatoes, Pumpkins, Radishes, Rhubarb, Rutabagas, Shallots, Spinach, Sprouts, Squash, Sweet Potatoes, Tomatillos, Tomatoes (Fresh), Turnips, Watermelons, Winter Squash, Zucchini and other miscellaneous vegetables of a limited number of growers/processors in Sutter County.

² Melons, Honeydew moved to Miscellaneous category for 2018 and 2019 due to insufficient data.



PHOTOS BY: YUBA CITY CERTIFIED FARMERS' MARKET

NURSERY PRODUCTS

ITEM	YEAR	FIELD ACRES	QUANTITY SOLD	TOTAL
Trees and Vines (Fruit and Nut, Bareroot and Potted)	2019	402	10,324,000	\$40,892,000
	2018	376	16,727,000	\$53,141,000
Miscellaneous ¹	2019	7	49,000	210,000
	2018	6	80,000	273,000
TOTAL	2019	409	10,373,000	\$41,102,000
	2018	382	16,807,000	\$53,414,000

¹ Includes Ornamental Trees, Shrubs and other Nursery Stock.

2019
\$41,102,000

2018
\$53,414,000

FIELD CROPS

CROP	YEAR	ACRES HARVESTED	PRODUCTION PER ACRE	TOTAL	UNIT	VALUE PER UNIT	TOTAL
Bean, Dried, Edible ¹	2019	11,680	0.88	10,278	Ton	\$991	\$10,185,000
	2018	7,676	1.03	7,906	Ton	\$1,036	\$8,191,000
Corn, Field Grain	2019	7,757	6.74	52,282	Ton	161	8,417,000
	2018	6,101	5.76	35,142	Ton	187	6,572,000
Hay, Alfalfa	2019	5,103	5.59	28,526	Ton	228	6,504,000
	2018	5,271	13.24	69,788	Ton	186	12,981,000
Hay, Grain	2019	5,711	3.06	17,476	Ton	156	2,726,000
	2018	3,981	3.48	13,854	Ton	156	2,161,000
Pasture, Irrigated ²	2019	9,082			Acre	135	1,226,000
	2018	9,500			Acre	137	1,302,000
Pasture, Range Dry ²	2019	60,000			Acre	17	1,020,000
	2018	61,000			Acre	16	976,000
Rice ³	2019	126,820	4.19	531,376	Ton	403	214,145,000
	2018	103,705	4.33	449,043	Ton	382	171,534,000
Safflower	2019	2,272	0.80	1,818	Ton	394	716,000
	2018	2,798	1.09	3,050	Ton	400	1,220,000
Wheat, Grain	2019	8,471	2.08	17,620	Ton	197	3,471,000
	2018	7,967	3.15	25,096	Ton	193	4,844,000
Miscellaneous ⁴	2019	12,578		32,103	Ton		9,294,000
	2018	10,911		26,967	Ton		5,768,000
Field Crop By-Products	2019						5,161,000
	2018						4,317,000
TOTAL	2019	249,474					\$262,865,000
	2018	218,910					\$219,866,000

¹ Includes all varieties of edible Dried Bean, including Lima, Blackeye, Garbanzo, Light and Dark Red Kidney Bean and other miscellaneous beans of a limited number of growers/processors in Sutter County.

² The valuation is not an animal production figure but a land value (rental equivalent.)

³ Includes USDA Support Price.

⁴ Includes Barley, Corn (Silage), Cotton, Grass Hay, Industrial Hemp, Oats (Silage), Popcorn, Triticale, Vetch, Sorghum and other miscellaneous field crops of a limited number of growers/processors in Sutter County.

2019
\$262,865,000

2018
\$219,866,000

APIARY PRODUCTS

ITEM	YEAR	PRODUCTION	UNIT	VALUE PER UNIT	TOTAL
Pollination	2019	54,277	Colony	\$91	\$4,939,000
	2018	59,681	Colony	\$83	\$4,954,000
Miscellaneous ¹	2019				1,055,000
	2018				1,207,000
TOTAL ²	2019				\$5,994,000
	2018				\$6,161,000

¹ Includes Package Bees, Queen Bees, Honey and Wax.

² 2018 Total Apiary Value is revised.

2019
\$5,944,000

2018
\$6,161,000

SEED CROPS

CROP	YEAR	ACRES HARVESTED	PRODUCTION PER ACRE	TOTAL	UNIT	VALUE PER UNIT	TOTAL
Cucumbers	2019	401	229	92,000	Lb	\$15.16	\$1,395,000
	2018	725	42	30,000	Lb	\$52.78	\$1,583,000
Pumpkins & Squash	2019	259	602	156,000	Lb	5.79	903,000
	2018	295	636	188,000	Lb	5.34	1,004,000
Rice	2019	5,127	8,502	43,590,000	Lb	0.20	8,718,000
	2018	3,862	8,603	33,225,000	Lb	0.21	6,977,000
Sunflower	2019	9,243	1,107	10,232,000	Lb	1.42	14,529,000
	2018	11,004	966	10,630,000	Lb	1.43	15,201,000
Watermelons	2019	621	345	214,000	Lb	20.30	4,344,000
	2018	1,108	272	301,000	Lb	9.21	2,772,000
Miscellaneous ^{1,2,3}	2019	1,408		5,447,000	Lb		862,000
	2018	1,832		5,887,000	Lb		2,097,000
TOTAL	2019	17,059					\$30,751,000
	2018	18,826					\$29,634,000

¹ Includes Alfalfa, Arugula, Basil, Fresh Beans, Dried Beans (Blackeye, Cowpea, Cranberry, Lima, Dark Red Kidney, Light Red Kidney), Broccoli, Cabbage, Cantaloupe, Carrots, Cauliflower, Coriander, Gourds, Kale, Lettuce, Onion, Peppers, Mixed Melons, Okra, Radish, Safflower, Sugar Peas, Swiss Chard, Tomato, Tomatillo, Triticale, Wheat, Wild Rice and other miscellaneous seed crops of a limited growers/processors in Sutter County.

² Revised 2018 Miscellaneous Seed Acreage, Total Production, Total Value and Seed Crop Total Value.

³ Safflower and Wheat moved to Miscellaneous category for 2018 and 2019 due to insufficient data.

2019
\$30,751,000

2018
\$29,634,000

LIVESTOCK

ITEM	YEAR	NUMBER	LIVE WEIGHT	UNIT	UNIT VALUE	TOTAL
Cattle & Calves ^{1,2}	2019	5,520	38,998	Cwt.	\$128	\$4,991,000
	2018	5,520	43,152	Cwt.	\$112	\$4,833,000
Sheep & Lambs	2019	2,088	1,823	Cwt.	179	326,000
	2018	2,848	3,016	Cwt.	141	425,000
Miscellaneous ³	2019					1,633,000
	2018					3,242,000
Livestock By-Products	2019					3,000
	2018					3,000
TOTAL	2019					\$6,953,000
	2018					\$8,503,000

¹ Includes USDA Support Price.

² Cattle & Calves 2018 number, live weight, unit value and total value are revised.

³ Includes Alpaca & Angora Fur, Aquaculture, Chickens, Chicken Eggs, Ducks, Fish Bait, Geese, Goats, Hogs, Milk (Market), Game Birds, Musk Oxen, Pheasants, Pigeons, Rabbits, Rabbit Hides, Turkeys, Water Buffalo, Wool and other miscellaneous livestock and poultry of a limited number of growers/processors in Sutter County.

2019
\$6,953,000

2018
\$8,503,000

TEN LEADING CROPS

CROP	2019	CROP	2018
RICE ¹	\$222,863,000	RICE ¹	\$178,511,000
WALNUTS	\$127,526,000	WALNUTS	\$85,956,000
PRUNES, DRIED	\$62,691,000	PEACHES, CLINGSTONE	\$59,798,000
TOMATOES, PROCESSING	\$51,666,000	PRUNES, DRIED	\$57,041,000
PEACHES, CLINGSTONE	\$49,984,000	NURSERY PRODUCTS	\$53,414,000
NURSERY PRODUCTS	\$41,102,000	TOMATOES, PROCESSING	\$37,887,000
ALMONDS	\$39,866,000	ALMONDS	\$33,155,000
SUNFLOWER, SEED	\$14,529,000	SUNFLOWER, SEED	\$15,201,000
BEAN, DRIED, EDIBLE ^{2,3}	\$10,293,000	ALFALFA	\$12,981,000
CORN, FIELD GRAIN	\$8,417,000	BEAN, DRIED, EDIBLE ^{2,3}	\$8,730,000

¹ Includes Seed, does not include Wild Rice.

² Includes all varieties of edible Dried Bean, including Lima, Blackeye, Garbanzo, Light and Dark Red Kidney Bean, and other miscellaneous beans of a limited number of growers/processors in Sutter County.

³ Includes Seed.



SUMMARY

CATEGORIES	2019	2018
FRUIT & NUT CROPS	\$294,203,000	\$247,893,000
FIELD CROPS	262,865,000	219,866,000
SEED CROPS	30,751,000	29,634,000
VEGETABLE CROPS	56,812,000	43,587,000
NURSERY PRODUCTS	41,102,000	53,414,000
LIVESTOCK PRODUCTS ¹	6,953,000	8,503,000
APIARY PRODUCTS ²	5,994,000	6,161,000
TOTAL ³	\$698,680,000	\$609,058,000

¹ 2018 Livestock total value is revised.

² 2018 Apiary products total value is revised.

³ 2018 Total value is revised.

GROSS PRODUCTION VALUE

YEAR	VALUE	YEAR	VALUE	YEAR	VALUE
1959	\$50,707,000	1980	\$299,014,700	2001	\$264,673,000
1960	\$50,536,000	1981	\$316,465,900	2002	\$291,061,100
1961	\$55,585,000	1982	\$247,784,100	2003	\$307,322,300
1962	\$57,322,000	1983	\$205,335,300	2004	\$299,219,300
1963	\$55,155,000	1984	\$262,285,500	2005	\$305,190,190
1964	\$66,740,000	1985	\$255,449,600	2006	\$358,845,200
1965	\$64,564,000	1986	\$229,364,800	2007	\$377,940,800
1966	\$71,627,000	1987	\$216,183,600	2008	\$498,195,200
1967	\$69,313,000	1988	\$201,345,800	2009	\$475,691,100
1968	\$80,275,000	1989	\$243,940,200	2010	\$521,640,570
1969	\$74,006,000	1990	\$217,400,000	2011	\$518,198,460
1970	\$77,238,000	1991	\$268,941,900	2012	\$528,253,000
1971	\$82,209,000	1992	\$285,622,700	2013	\$597,530,000
1972	\$95,118,000	1993	\$292,108,300	2014	\$726,066,000
1973	\$159,204,000	1994	\$340,171,300	2015	\$538,147,000
1974	\$179,719,000	1995	\$330,170,500	2016	\$514,408,000
1975	\$187,517,000	1996	\$302,706,400	2017	\$583,996,000
1976	\$178,554,000	1997	\$277,169,700	2018 ¹	\$609,058,000
1977	\$200,878,000	1998	\$268,323,100	2019	\$698,680,000
1978	\$220,502,000	1999	\$347,939,000		
1979	\$258,666,900	2000	\$340,176,000		

¹ 2018 Total value revised.

CROP STATISTICS

As required by the California Food & Agricultural Code, the gross production and value of the county's commodities are compiled and recorded in the annual crop report. This valuable information helps associated businesses while promoting the production and prosperity of agriculture in California.

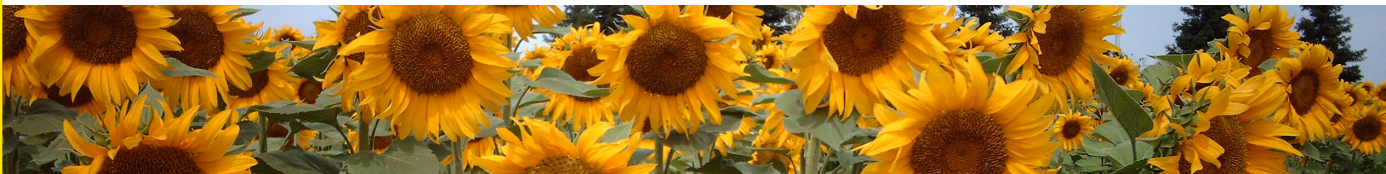
Total Hours Expended 2019: 332



APIARY INSPECTION

This program emphasizes the registration and site location of honeybee colonies in the county. At the request of beekeepers or growers, the County Agricultural Commissioner inspects colonies for strength and health to ensure effective pollination.

Total Hours Expended 2019: 243



KILL THE BUG, RECYCLE THE JUG

This program is funded by a grant from Feather Air Quality Management District with the Sutter County Agricultural Commissioner's Office making an in-kind contribution of approximately 140 hours annually. Growers are encouraged to bring their empty pesticide containers to permanent recycling events held throughout the year. In 2019 we recycled 98,700 pounds of used pesticide containers. A total of 1,179,127 pounds have been recycled since the program began in 2007.



MEASUREMENT STANDARDS

County Weights and Measures officials ensure the accuracy of commercial weighing and measuring devices; verify the quantity of both bulk and packaged commodities and enforce the quality advertising and labeling standards for most petroleum products.

Total Hours Expended 2019: 2,558



PESTICIDE USE ENFORCEMENT

This is a complex legislatively mandated program that provides for the proper, safe and effective use of pesticides essential for production of food and fiber and for protection of the public health and safety. It also protects the environment from potentially harmful pesticides by prohibiting, regulating or ensuring proper stewardship of pesticides. An important component of the program focuses on agricultural and pest control workers, ensuring safe working conditions, use of proper protective equipment and training for employees who work with or around pesticides. Other components of the program include pesticide use reporting, incident investigations, outreach activities promoting best management practices and monitoring applications in the field.

Total Hours Expended 2019: 12,140

SEED CERTIFICATION

Inspections are performed at retail and wholesale establishments that sell seed. Samples are drawn for germination and purity testing and labeling is inspected for compliance with state requirements. Through this program certification, services are also available for growers and processors in cooperation with the California Crop Improvement Association.

Total Hours Expended 2019: 229

FRUIT, NUT AND VEGETABLE STANDARDIZATION

This program ensures compliance with California's minimum standards regarding quality and marketing of all produce commercially grown and/or marketed in the state. Regulation of one certified market and 28 certified producers as well as Organic Program law enforcement are part of a program that provides for local protection to growers, marketers and consumers.

Total Hours Expended 2019: 589.5

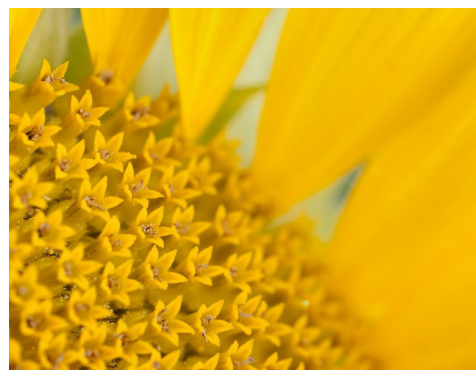
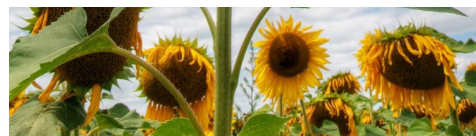
ORGANIC FARMING

40 farms, totaling approximately 20,785 acres of crop land were registered as organic in Sutter County in 2019. These farms produce a wide array of commodities such as almonds, stone fruit, beans, herbs, corn, popcorn, miscellaneous vegetables, apples, grapes, pears, pomegranates, melons, squash, oats, peas, prunes, rice, seed crops, tomatoes, walnuts and wheat. The total estimated values of organic production in Sutter County in 2019 was \$29,819,598. In comparison, 2018 had 16,737 production acres with an estimated value of \$24,463,775.

NURSERY INSPECTION

Through this program, inspections are performed at the growing propagation, production and sales sites to ensure cleanliness from pests, varietal trueness and stock vigor prior to consumer sales. In 2019, 172 hours were spent performing inspections at 144 locations, consisting of 484 acres.

Total Hours Expended 2019: 805



STATISTICS

PEST MANAGEMENT

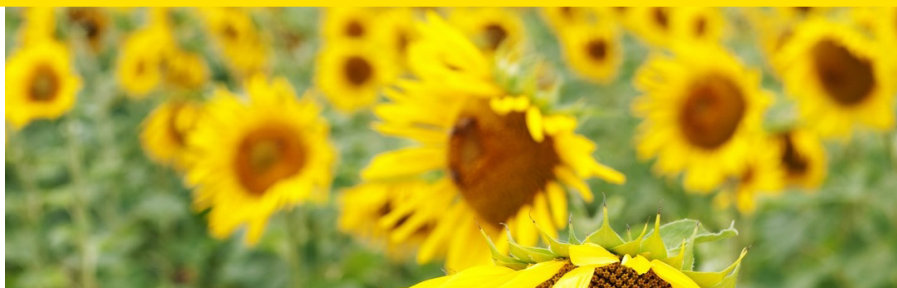
The County Agricultural Commissioner is charged with the responsibility of managing nuisance pests of agriculture and human health. Many of these pests are introduced species that have become established despite our best pest exclusion efforts. If promising, programs are established to distribute biological agents for troublesome pests.

To prevent the spread of glassy-winged sharpshooter (GWSS), Sutter County inspected 123 shipments of nursery stock arriving from infested areas in California. There were zero shipments of plant material rejected for the presence of GWSS egg masses or other life stages. There were 128 traps placed in nurseries and urban areas for the detection of GWSS, which were serviced a total of 1,095 times.

The Biological Control program utilizes natural enemies to suppress populations of pests to economically and environmentally acceptable levels. Following establishment, the agents are self-sustaining, reducing the need for chemical controls. A number of biological control agents are general distribution or locally established, including agents for puncturevine (*Tribulus terrestris*) and yellow starthistle (*Centaurea solstitialis*). The puncturevine agents include puncturevine seed weevil (*Microlarinus lareynii*) and puncturevine stem weevil (*M. lypriformis*) and are distributed countywide. There are six yellow starthistle agents present in Sutter County. Additionally, the lerp psyllid wasp (*Psyllephagus bliteus*) is present, which acts as a biocontrol for the redgum lerp psyllid (*Glycaspis brimblecombei*), a pest of eucalyptus.

The Sutter County Agricultural Commissioner's Office facilitates the local management of vertebrate pests by selling vertebrate baits to growers with restricted materials permits. In 2019, a total of 125 pounds of anticoagulants was sold.

Total Hours Expended 2019: 468



PEST EXCLUSION

This program provides the first line of defense for California agriculture and the environment against the invasions of exotic pests. Inspections provide protection from the introduction of plant, animal, insect and disease pests that may be introduced into the state through the movement of legal and illegal trade. This program also involves inspections of plant material being delivered to other states and countries and the issuance of certificates documenting compliance with their entry requirements.

A total of 391 premise visits were conducted in 2019. A total of 5,047 shipments of plant material were inspected during these visits. Inspection occurred at the express carriers, nurseries, and other farms. There were 40 rejections of plant material issued. Rejected plant material may be returned to the shipper, reconditioned, and released or destroyed. To assist our industry, we issued 1,922 federal phytosanitary certificates for international shipments and 34 state phytosanitary certificates for shipments to other states.

Total Hours Expended 2019: 6,494



PEST DETECTION

This program provides the second line of defense against exotic pests through the early detection of new introductions before they become widely established. Through early detection, the likelihood of these pests becoming established in the state is lessened and the cost and environmental impact of eradication is minimized.

There were 662 traps placed for detection of exotic insect pests including Mediterranean, Oriental and melon fruit flies, gypsy moth, Japanese beetle, European pine shoot moth, khapra beetle, vine mealybug, European grapevine moth, light brown apple moth, and Asian citrus psyllid. Over the course of the season, a cumulative total of 5,619 servicing were performed.

Total Hours Expended 2019: 1,265

SUTTER COUNTY EXPORTS

Top Five Export Countries

• **TURKEY**

Inshell Walnuts
Seeds

• **UNITED ARAB EMIRATES**

Inshell/Shelled Walnuts
Seeds

• **GERMANY**

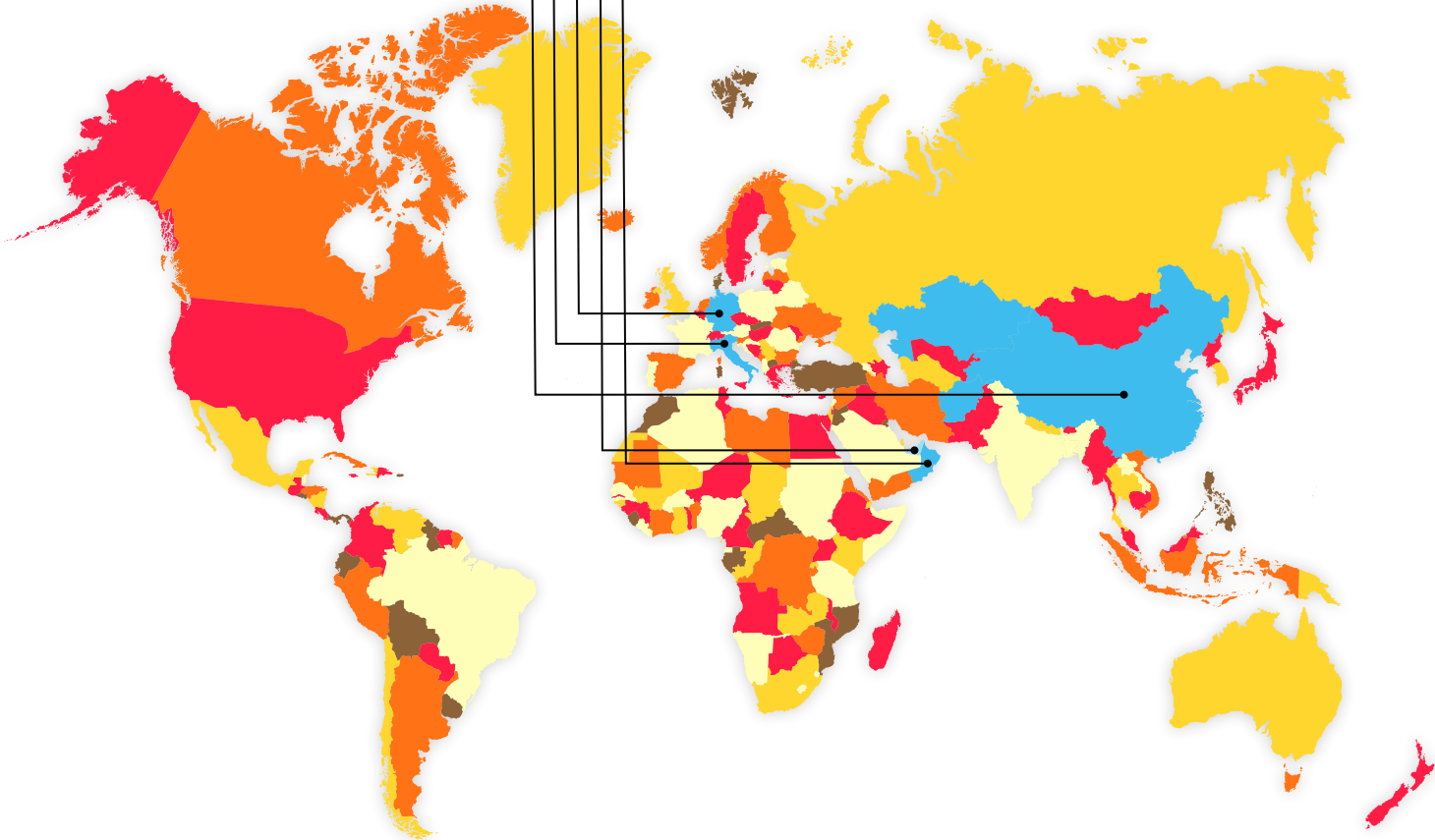
Inshell/Shelled Walnuts

• **ITALY**

Inshell Walnuts
Seeds

• **CHINA**

Inshell/Shelled Walnuts
Seeds



Sutter County exported to 86 countries in 2019, the top five being China, Germany, United Arab Emirates, Turkey, Italy.

2019 FEDERAL PHYTOSANITARY CERTIFICATES

Total of 1,922 issued to 86 countries

Total pounds 77,546,101

NUMBER OF CERTIFICATES ISSUED

Turkey - 263

United Arab Emirates - 185

Germany - 133

Italy - 120

China - 120

SUTTER COUNTY INDUSTRIAL HEMP

Grown as a fiber crop in the United States since the 1700s, Hemp was known to founding fathers George Washington, Thomas Jefferson and Ben Franklin. Used to make products such as rope, fabric and paper, hemp was prohibited in the mid-1930s and has only recently been re-legalized for cultivation.

"Industrial hemp" or "Hemp" refers to a variety of the plant *Cannabis sativa* L. grown specifically for the industrial uses of its derived products. Both Hemp and Marijuana are Cannabis, but Hemp is bred to have a minimal amount of delta-9 tetrahydrocannabinol (THC), the primary psychoactive component in marijuana. Hemp crops must be sampled prior to harvest and may contain no more than 0.3 percent THC concentration on a dry weight basis.

The Agriculture Improvement Act of 2018 (2018 Farm Bill) was signed into law by the President on December 20, 2018. The Act removed hemp from the definition of marijuana as a Schedule I controlled substance and allowed the transit of hemp through interstate commerce. The U.S. Domestic Hemp Production Program was established by the U.S. Department of Agriculture (USDA) through an interim final rule on October 31, 2019. This rule provides the requirements for State and Tribal regulatory plans submitted to USDA for review and approval.

In 2019, Sutter County registered over 1,600 acres for Industrial Hemp cultivation. Of those acres, 820 were planted with an additional 180 acres planted for agricultural research.

The industrial hemp grown in California is primarily used for its cannabinoid properties (mainly CBD and CBG) but is also grown for fiber and seed.





To legally cultivate Industrial Hemp in California, each grower must first register with the County Agricultural Commissioner in each county in which they intend to grow. Clandestine cultivation is prohibited, all plots are required to have signage indicating that they are Industrial Hemp.

The California regulations in place for the 2019 crop year specify that once the crop is within 30 days of harvest the grower submits a pre-harvest report and regulatory

sampling is scheduled. The samples that are taken are tested for THC content by an ISO accredited laboratory. Once a passing lab result is received the grower can proceed with harvest. The registrant has 30 days from the date of sampling to complete harvest.

If the sample exceeds the allowable 0.3% THC concentration, the crop must be destroyed in a manner approved by the agricultural commissioner.

REGISTRATION TYPE	NUMBER	ACRES ¹
GROWERS	19	1,587
BREEDERS	2	38
RESEARCH	1	180
DUAL (Grower & Breeder)	1	2
ACRES FAILED & DESTROYED		81

NOTE: 2019 Industrial Hemp acreage and values are included in miscellaneous Field Crops data in the Crop Report due to insufficient value data provided.

¹ Chart reflects registered acreage. Planted grower and breeder acreage was 820.



WEIGHTS AND MEASURES: WHAT WE DO

Weights and Measures ensures a fair marketplace by verifying products are sold by accurate weights, measures, and prices.

Consumer protection:

- Accurate weighing and measurement of goods.
- Investigation of false and deceptive advertising.
- Verification of the quantity of bulk & packaged goods.
- Enforcement of quality, advertising and labeling standards for most petroleum products.



Our Services Are Your Economic Protection

Weights and Measures activities are mandated by state law to protect the interests of both the buyer and seller to assure honesty and integrity in everyday business transactions. This protection is accomplished through continuous and systematic inspection of all equipment that weighs or measures a commodity or service that is sold.

Inspections

Our inspectors make routine, mostly unannounced inspections and audits. We are authorized to enter any business during regular operating hours to make those inspections.

For commercial devices, the inspector will place a sticker seal with the current year on each device that is in compliance. When the device is out of tolerance, the device will need to be repaired by a California Registered Service Agent before it will pass inspection.

In the case of prepackaged goods, the inspector may take them off-sale if short weight or measure, or if they are not properly labeled.





Types of Inspections

Devices

Any device used for commercial transactions must be inspected annually. These include: grocery store scales all the way up to large capacity truck scales; gas pumps; water vending machines; propane meters; wire, cordage, & fabric meters, utility electric and gas submeters.

Petroleum

Inspections assure minimum quality standards for most automotive products (gasoline, oxygenated blends, diesel fuel, motor oil, brake fluid, automatic transmission fluid, antifreeze/coolants and alternative engine fuels) sold in California. Additionally, the program regulates the advertising and labeling of these products.

Weighmaster

Official weighmaster certificates are legal documentation of a weight, measure, or count of a bulk commodity when one party is not present during the transaction. Diverse businesses such as rice milling plants, almond processors, cement plants, scrap metal yards, moving and storage companies, livestock dealers and rock quarries are all weighmasters. Inspections are done to ensure certificates are correct and quantities are derived properly.

Quantity Control

The Quantity Control Program's responsibilities include: checking packages for accuracy of net content statements; verifying that businesses request only the correct price when customers make purchases; and enforcement of "Fair Packaging and Labeling Act" requirements, including laws against misleading and deceptive packages or advertisements.

Consumer Complaints

All weights & measures complaints received from consumers are investigated. Some complaints are proved unfounded while others may need coordination with the District Attorney's Office in order to prosecute violators.



SUNFLOWERS

Sunflowers occupy a unique niche as one of a very small number of indigenous plants in large scale agricultural production today, along with pecan, blueberry and cranberry. Archaeological evidence suggests that sunflower cultivation began as early as 2300 BC and predates the commonly known 3 sisters companion crops of corn, beans and squash.

Early uses of sunflower showed that its' value as a high energy food source was known. These uses included roasted and ground into meal for baking, mashed into a paste like peanut butter or steeped to make a hot beverage. Additional uses ranged from hair treatments to snake bite treatment. Yellow dye obtained from the flowers and blue dye from the seeds, made it important to basketry and weaving.

As the Americas and its flora and fauna were discovered by the colonists and explorers, specimens of sunflowers were sent to the royal courts of Europe, where its uses were strictly ornamental.



Upon reaching Russia, its potential as a food crop was rediscovered and expanded, through intensive breeding efforts the oil content was increased, and disease resistance improved. In 1966, the first Russian bred cultivar was introduced into the US, greatly advancing the efforts of the US commercial seed production industry to develop oil seed types of sunflower.

The common sunflower, *Helianthus annuus*, is a member of the Asteraceae family. Though commonly cultivated as a single-headed variety, its wild relatives including *H. petiolaris* or Prairie sunflower have multiple heads, though each has the familiar look of dark scales in the center of the head surrounded by yellow ray flowers. As a composite flower, the sunflower head is actually made up of many smaller individual florets. The outer florets which appear as petals are called ray flowers and the inner flowers are called disk flowers and produce seed. Ranging in height from 1.5 to 12 feet tall and various shades of yellow, white or red, most oil crop sunflowers have a more uniform appearance, from 3-5 feet tall and single heads with bright yellow ray flowers.

Most production in California is for hybrid seed, which becomes planting stock in other production areas for either oilseed or confectionery markets. According to figures from the California Crop Improvement Association, over 50,000 certified acres were planted in 2019, with Colusa, Glenn, Solano, Sutter and Yolo counties comprising over 90% of the acreage. Sutter County planted 9,243 acres or 18% of the statewide acreage and ranks second behind Yolo's 20,232 planted acres.

Hot, dry summers and excellent field isolation capabilities for seed purity set the Sacramento valley apart as a world-renowned location for hybrid sunflower seed production according to the University of California Sunflower Hybrid Seed Production in California. In fact, California is the number one sunflower seed (for planting) producing state in the United States, supplying



nearly all the seed used to plant the 1.7 million acres of sunflower in the United States.

Yields in Sutter County average 866 pounds per acre over the last 5 years according to the Sutter County Crop and Livestock reports. Average price paid for the same period is \$1.40 per pound. The primary growing areas are the Robbins basin and Meridian/Sutter.

SOURCES

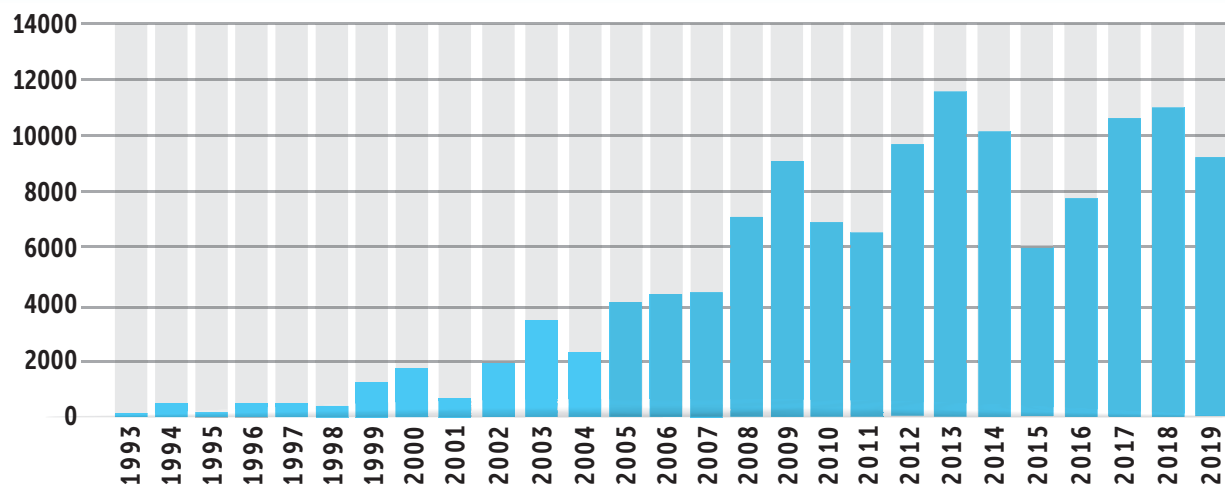
Long, Racheal et al; *Sunflower Hybrid Seed Production in California*, March 2019 University of California ANR publication 8638

Rindels, Sherry; *Sunflowers*, April 26, 1996 Iowa State University Department of Horticulture

Sunflower Crop Value Ranking in Sutter County

2019 #8 | 2018 #8 | 2017 #9 | 2016 #9 | 2014 #8 | 2013 #9 | 2012 #7

SUNFLOWER ACREAGE IN SUTTER COUNTY 1993-2019





COUNTY OF SUTTER
AGRICULTURAL COMMISSIONER
SEALER OF WEIGHTS AND MEASURES

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