Stanislaus County Agricultural Report 2018

The Importance of Bees

TABLE OF CONTENTS



Letter to CDFA Secretary	1	
Cover Story	2	
Top Ten Commodities	3	
Summary	4	
Apiary Products	5	
Field Crops	6	
Fruit & Nut Crops	8	
Livestock & Poultry	10	
Livestock & Poultry Products	12	
Nursery Products	13	
Organic/Other Ag	14	
Vegetable Crops	15	

16
18
20
21
22
23
24
25
26
27
28
29



STANISLAUS COUNTY AGRICULTURAL COMMISSIONER

Karen Ross, SecretaryCalifornia Department of Food and Agriculture
andThe Honorable Board of Supervisors of Stanislaus CountyKristin OlsenVito ChiesaDistrict 1, Vice-ChairmanVito ChiesaDistrict 2Terry WithrowDistrict 3, ChairmanTom BerryhillDistrict 4

District 5



In accordance with Sections 2279 of the California Food and Agricultural Code, we are pleased to submit Stanislaus County's Agricultural Report for 2018. This report provides a statistical description of Stanislaus County's agricultural production. We must emphasize that this report represents gross values of agricultural commodities and does not reflect production costs or profits.

The value of agricultural commodities produced last year in Stanislaus County decreased 2% to \$3,569,999,000. This represents a small decrease of \$78 million from the 2017 value of \$3,648,192,000.

This report illustrates trends and challenges seen by the county's growers. Poultry remained a strong industry in Stanislaus County, with chicken values increasing \$22 million. Largely due to an additional 8,496 harvested acres, almond values increased \$51 million-exemplifying trends toward the more permanent, high value crop across the region.

These increases were more than offset by decreases in walnut values due to global competition; fewer nursery fruit, nut trees and vines sold; persistent depressed milk prices nationally; and the fluctuation of turkey production within the county. Overall harvested acres decreased by 28,623 acres as a result of significant reductions in silage acres harvested. As dairies close, many silage acres are being transitioned to young, non-bearing almond orchards.

Highlighted in this report is an excerpt from the Stanislaus County Crop Report Plus, a study on agriculture's economic impact (based on 2017 data). It underscores agriculture's tremendous impact on the local economy, supporting over 34,000 jobs with an economic ripple effect exceeding \$7 billion.

We wish to express our appreciation to the agricultural producers, industry representatives and public agencies that provide data for this report. We would also like to express our thanks to the UC Cooperative Extension, and the Agricultural Commissioner's crop report team that compiled, designed and edited this report.

Respectfully submitted,

Jim DeMartini

to Oltai

Milton O'Haire Agricultural Commissioner/ Sealer of Weights & Measures Stanislaus County

umea

Roger Duncan County Director, UC Cooperative Extension Stanislaus County



COUNTY OF STANISLAUS AGRICULTURAL COMMISSIONER 3800 Cornucopia Way, Ste. B, Modesto, CA 95358 ~ tel (209) 525-4730 ~ fax (209) 525-4790 ~ stanag.org

THE IMPORTANCE OF BEES

Since 2013, Stanislaus County's number one commodity by value is almonds. At \$1,107,328,000, almonds are a driving force in the county economy. We owe much of this prosperity to a modest but industrious insect, the honeybee.

Almonds' early bloom time is the farewell to winter for honeybees; and a boon for beekeepers. Pollination contract prices for hives are dramatically higher compared to other crops, sometimes exceeding \$200 per hive, due to the high demand and relative scarcity of hives available. There are over one million bearing acres of almonds in California, nearly 15% (196,496 acres) within Stanislaus County, requiring approximately two hives per acre for pollination. Honeybees brought to California for almond pollination constitute the largest annual artificial insect migration. This seasonal spectacle is evident in January and February as nearly half of the nation's bees make their way to the California Central Valley for almond pollination before being moved to other crops such as blueberries, cherries, melons and squash later in the season.

California produces two-thirds of US fruits and nuts, and a third of the country's vegetables. While not all these commodities rely exclusively upon bees for pollination, a significant proportion experience essential increases in production with the presence of bees. We would be remiss to deny their vital role in bringing food to our tables.

Over the last 20 years, bee deaths have dramatically increased. An annual nationwide survey by the University of Maryland (representing 12% of the nation's managed colonies) shows beekeepers are still reporting astounding losses year to year. International concern for bee mortality rates has compelled numerous agencies to study speculative causes and catalysts including genetics, viruses, parasites, pesticide exposure, and nutrition among others.

In reaction to surveys like the one above, the Almond Alliance of California and the California State Beekeepers Association have partnered with the California Department of Food and Agriculture and the California Agricultural Commissioners to create two new programs to assist beekeepers and growers throughout the state. First, the BeeSafe program provides guidance in proper identification of hives to help prevent apiary theft, inspections for colony health and pest pressure, and identifying and increasing good foraging areas within the county. Working in conjunction with BeeSafe, BeeWhere assists with registering apiary locations and making it easier for beekeepers and pesticide applicators to communicate about planned pesticide applications that may be harmful to bees. This allows both parties to take the necessary precautionary steps to prevent bee mortality due to pesticide exposure.

We know that apiary health and wellness is directly tied to the prosperity of Stanislaus County and California agriculture. It is imperative that we be proactive in protecting and preserving all foraging bees in our county.

TOP 10 COMMODITIES

	CATEGORY	% OF ALL COMMODITIES	2018 VALUE	2017 VALUE
$\left(1\right)$	Almonds, All	30%	\$1,107,328,000	\$1,056,184,000
2	Milk, All	17%	\$636,499,000	\$663,650,000
3	Chickens, All	8%	\$276,879,000	\$254,695,000
4	Cattle & Calves, All	7%	\$236,822,000	\$232,962,000
5	Nursery, Fruit & Nut Trees & Vind	es 5%	\$170,164,000	\$226,748,000
6	Silage, All	4%	\$135,901,000	\$134,103,000
(7	Walnuts	3%	\$102,661,000	\$163,644,000
8	Pollination, Almond	2%	\$75,847,000	\$67,683,000
9	Turkeys, All	2%	\$64,342,000	\$84,096,000
(10	Peaches, All	2%	\$56,601,000	\$52,198,000
	TOTAL TOP 10	80%	\$2,863,044,000	\$2,935,963,000
	All Other Commodities	20%	\$706,946,000	\$712,229,000
	TOTAL ALL COMMODITIES	100%	\$3,569,990,000	\$3,648,192,000

"A work of arte; and yet no arte of man, can worke, this worke, these little creatures can" - Geffrey Whitney, 1586

SUMMARY

CATEGORY	YEAR	HARVESTED ACRES	TOTAL VALUE
Apian/Droducto	2018		\$89,041,000
Aplaty Products	2017		\$80,706,000
Field Cropp	2018	645,879	\$212,742,000
rieid Ciops	2017	681,366	\$207,574,000
Fruit 9 Nut Cropp	2018	259,901	\$1,390,010,000
FIUIT & NUT CTOPS	2017	250,757	\$1,392,747,000
Livertock & Doultry	2018		\$588,352,000
LIVESIOCK & FOUITY	2017		\$582,477,000
Livestock & Poultry	2018		\$680,197,000
Products	2017		\$715,117,000
Nurson / Products	2018	2,777	\$220,953,000
Nuisely Ploducis	2017	2,884	\$271,049,000
Organic Products	2018	7,038	\$193,609,000
Organic Products	2017	8,577	\$199,409,000
Other Agriculture	2018	678	\$23,540,000
	2017	779	\$19,793,000
Vagatable Crops	2018	28,097	\$171,546,000
	2017	28,630	\$179,320,000
Total	2018	944,370	\$3,569,990,000
Total	2017	972,993	\$3,648,192,000



APIARY PRODUCTS

CATEGORY	YEAR	TOTAL	UNIT	PER UNIT	TOTAL VALUE
Boosway 1	2018	605,208	Lb	\$3.61	\$2,185,000
DEESWUX	2017	577,896	Lb	\$3.50	\$2,023,000
Honey ¹	2018	5,191,424	Lb	\$2.00	\$10,383,000
	2017	4,956,973	Lb	\$2.08	\$10,311,000
Dollingtion Almond	2018	392,992	Colony	\$193.00	\$75,847,000
Poliination, Almona	2017	375,244	Colony	\$180.37	\$67,683,000
Pollingtion Other ²	2018				\$626,000
Pollination, Other ²	2017				\$689,000
Total	2018				\$89,041,000
IOIDI	2017				\$80,706,000

1 Honey and Beeswax are based on resident colonies plus the value of the colonies during almond pollination season 2 Pollination, Other includes: Apple, Blueberry, Cherry, Cucumber, Melon, Pumpkin, Queen & Bulk Bees, Squash



FIELD CROPS

CATEGORY	YEAR	HARVESTED ACRES	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL VALUE
Beans, Dried	2018	8,599					\$13,711,000
All	2017	9,664					\$13,011,000
Plackoved	2018	836	0.85	711	Ton	\$1,010	\$718,000
ыйскеуей	2017	1,007	1.19	1,200	Ton	\$925	\$1,110,000
Dabylinga	2018	1,720	1.52	2,610	Ton	\$913	\$2,383,000
Baby Limas	2017	625	1.05	656	Ton	\$810	\$531,000
	2018	5,197	1.35	7,020	Ton	\$1,370	\$9,617,000
Large Limas	2017	7,841	1.07	8,400	Ton	\$1,295	\$10,878,000
Beans, Dried ¹	2018	846	0.97	821	Ton	\$910	\$747,000
Other	2017	191	1.30	248	Ton	\$800	\$198,000
Poop Straw	2018			7,020	Ton	\$35	\$246,000
Dean Siraw	2017			8,400	Ton	\$35	\$294,000
	2018	18,639	6.72	125,000	Ton	\$212	\$26,500,000
nay, Alialia	2017	21,351	6.44	138,000	Ton	\$186	\$25,668,000
	2018	8,945	4.14	37,000	Ton	\$143	\$5,291,000
nay, Oai	2017	10,313	3.16	32,600	Ton	\$111	\$3,619,000
$1 \text{ low } c$ Oth $c \pi^2$	2018	8,287					\$4,921,000
Hay, Other ²	2017	10,974					\$5,310,000



2018 STANISLAUS COUNTY AGRICULTURAL REPORT

FIELD CROPS continued

CATEGORY	YEAR	HARVESTED ACRES	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL VALUE
Pasture,	2018	32,000			Acre	\$265	\$8,480,000
Irrigated	2017	32,500			Acre	\$305	\$9,913,000
Papaeland	2018	421,449			Acre	\$35	\$14,751,000
Kungelana	2017	421,949			Acre	\$29	\$12,237,000
	2018	146,755					\$135,901,000
Slidge, All	2017	171,512					\$134,103,000
Corre	2018	81,890	27.08	2,218,000	Ton	\$44	\$97,592,000
COIT	2017	92,472	25.82	2,388,000	Ton	\$41	\$97,908,000
Other ³	2018	55,698					\$34,434,000
Oniei	2017	70,940					\$32,865,000
Sudan	2018	9,167	16.95	155,000	Ton	\$25	\$3,875,000
300011	2017	8,100	13.65	111,000	Ton	\$30	\$3,330,000
Miscollapoous4	2018	1,205					\$3,187,000
	2017	3,103					\$3,713,000
Total	2018	645,879					\$212,742,000
	2017	681,366					\$207,574,000

1 Beans, Dried Other includes: Jackson Wonder, Red Lima, Garbanzos

2 Hay, Other includes: Clover, Grass, Sudan, Wheat, Winter Forage

3 Silage, Other includes: Alfalfa, Broccoli Stalks, Grass, Oat, Ryegrass, Sorghum, Triticale, Vetch, Wheat, Winter Forage

4 Miscellaneous includes: Barley, Corn Earlage, Corn Grain, Corn Human Consumption, Corn-Sweet, Rice, Safflower, Wheat Grain, Wheat Straw



FRUIT & NUT CROPS

CATEGORY	YEAR	HARVESTED ACRES	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL VALUE
	2018	196,496					\$1,107,328,000
Almonus, Ali	2017	188,000					\$1,056,184,000
Almond Moate	2018	196,496	1.15	226,000	Ton	\$4,700	\$1,062,200,000
Almond Medis	2017	188,000	1.13	212,000	Ton	\$4,848	\$1,027,776,000
	2018			452,000	Ton	\$96.50	\$43,618,000
Almond Hulis	2017			424,000	Ton	\$65	\$27,560,000
Almond Sholls	2018			226,000	Ton	\$6.68	\$1,510,000
Almonia Shelis	2017			212,000	Ton	\$4	\$848,000
Apricate	2018	3,678	5.77	21,200	Ton	\$824	\$17,469,000
Apricois	2017	3,853	8.20	31,600	Ton	\$649	\$20,508,000
Charries	2018	3,411	1.82	6,210	Ton	\$5,470	\$33,969,000
Chemes	2017	3,067	2.52	7,700	Ton	\$3,493	\$26,896,000
Citrue 1	2018	501					\$4,871,000
Cillus	2017	514					\$5,344,000
	2018	9,655					\$46,709,000
Giupes, Ali	2017	9,811					\$42,722,000
Pad	2018	5,890	10.23	60,300	Ton	\$495	\$29,849,000
Keu	2017	5,995	10.57	63,000	Ton	\$477	\$30,051,000
White	2018	3,765	9.92	37,300	Ton	\$452	\$16,860,000
wine	2017	3,816	7.71	29,400	Ton	\$431	\$12,671,000

FRUIT & NUT CROPS continued

CATEGORY	YEAR	HARVESTED ACRES	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL VALUE
Deceber All	2018	5,460					\$56,601,000
reaches, All	2017	5,629					\$52,198,000
Clina	2018	4,475	16.77	75,000	Ton	\$477	\$35,775,000
Cillig	2017	4,949	17.07	84,000	Ton	\$456	\$38,304,000
Frantana	2018	985	11.84	11,700	Ton	\$1,780	\$20,826,000
Freestone	2017	680	12.20	8,300	Ton	\$1,674	\$13,894,000
Maloute	2018	37,468	1.84	68,900	Ton	\$1,490	\$102,661,000
vvailars	2017	36,618	1.86	68,100	Ton	\$2,403	\$163,644,000
	2018	3,232					\$20,402,000
IVIISCEIIONEOUS 2	2017	3,265					\$25,251,000
Total	2018	259,901					\$1,390,010,000
ισται	2017	250,757					\$1,392,747,000

1 Citrus includes: Grapefruit/Pomelos, Lemons, Oranges, Tangerines

2 Miscellaneous includes: Apples, Avocados, Berries (Blackberries, Boysenberries, Blueberries, Raspberries, Strawberries) Chestnuts, Figs Jujube, Kiwifruit, Nectarines, Olives, Pears, Pecans, Persimmons, Pistachios, Plums, Pluots, Pomegranates, Prunes, Quince, Table Grapes



LIVESTOCK & POULTRY

CATEGORY	YEAR	NUMBER OF HEAD	TOTAL VALUE
Cattle & Calves All	2018	333,075	\$236,822,000
Cume & Cuives, Air	2017	320,460	\$232,962,000
Boof Foodors ¹	2018	123,955	\$31,299,000
Deel reedels	2017	132,440	\$37,847,000
Roof Slaughtor ²	2018	42,720	\$15,112,000
beer slougilier	2017	45,920	\$12,864,000
	2018	92,000	\$130,141,000
Dully Replacement	2017	71,400	\$120,667,000
Dainy Slaughtor ³	2018	74,400	\$60,270,000
Dairy sidugi nei	2017	70,700	\$61,584,000
Coata 4	2018	13,058	\$1,495,000
GOOIS	2017	19,908	\$2,972,000
Hoge & Dige	2018	28,437	\$3,971,000
nogs & pigs	2017	22,992	\$3,076,000
Sheep & Lambs 5	2018	2,949	\$480,000
	2017	3,791	\$661,000



LIVESTOCK & POULTRY continued

CATEGORY	YEAR	NUMBER OF HEAD	TOTAL VALUE
Chickops All 6	2018	159,104,555	\$276,879,000
Chickens, All °	2017	156,946,000	\$254,695,000
Game Birds ⁷	2018	71,000	\$764,000
	2017	75,160	\$1,007,000
Squab	2018	596,835	\$3,599,000
annhe	2017	565,493	\$3,008,000
	2018	8,663,708	\$64,342,000
Turkeys, All °	2017	8,550,000	\$84,096,000
Total	2018		\$588,352,000
Total	2017		\$582,477,000

1 Beef Feeders includes: Beef Heifers, Beef Replacement Heifers, Beef Steers, Drop Calves less Replacement Heifers, Feed Lot Cattle, Transient Cattle

2 Beef Slaughter includes: Beef Bulls, Beef Cows, Dairy Beef

3 Dairy Slaughter includes: Cull Bulls, Cull Cows

4 Goats includes: Cull Bucks, Cull Does, Dairy Goat Kids less Replacement Does, Meat Goats

5 Sheep & Lambs includes: Cull Ewes, Cull Rams, Lambs, Replacement Ewes, Replacement Rams

6 Chickens, All includes: Chickens, Chicks

7 Game Birds includes: Chukar, Duck, Geese, Partridge, Peacock, Pheasant, Quail

8 Turkeys, All includes: Poults, Turkeys



LIVESTOCK & POULTRY PRODUCTS

CATEGORY	YEAR	TOTAL	UNIT	PER UNIT	TOTAL VALUE
Eggs, Chicken	2018	25,431,929	Doz	\$1.44	\$36,622,000
Market	2017	29,936,000	Doz	\$1.45	\$43,407,000
Eggs Other ¹	2018				\$3,338,000
Eggs, Onier	2017				\$4,373,000
	2018	40,386,000	Cwt*		\$636,499,000
IVIIIK, All	2017	39,395,000	Cwt		\$663,650,000
Market	2018	36,382,000	Cwt	\$15.67	\$570,106,000
	2017	36,848,000	Cwt	\$16.72	\$616,099,000
	2018	3,942,000	Cwt	\$16.25	\$64,058,000
Manufacturing	2017	2,469,000	Cwt	\$18.21	\$44,960,000
Milk Coat	2018	62,000	Cwt	\$37.66	\$2,335,000
IVIIIK, GOUI	2017	78,000	Cwt	\$33.22	\$2,591,000
	2018	490,000	Ton	\$7.54	\$3,695,000
Manure	2017	479,000	Ton	\$7.59	\$3,636,000
	2018	24,100	Lb	\$1.80	\$43,000
VV001 *	2017	31,034	Lb	\$1.65	\$51,200
Total	2018				\$680,197,000
IUIUI	2017				\$715,117,000

*CWT = HUNDRED WEIGHT

1 Eggs, Other includes: Turkey Hatching Eggs, Quail, Duck Eggs

2 Manure includes: Chicken, Cow, Turkey

3 Wool includes: Alpaca Fiber, Sheep Wool



NURSERY PRODUCTS

VALUE
0,164,000
6,748,000
2,738,000
8,321,000
8,051,000
5,980,000
0,953,000
1,049,000

1 Miscellaneous includes: Christmas Trees, Lavender, Raspberry Transplants, Tomato Transplants, Turf



ORGANIC PRODUCTS

CATEGORY	YEAR	HARVESTED ACRES	TOTAL VALUE
All Organia Braduata	2018	7,038	\$193,609,000
	2017	8,577	\$199,409,000

OTHER AGRICULTURE

YEAR	TOTAL	UNIT	PER UNIT	TOTAL VALUE
2018	73,686	Cord	\$235.00	\$17,316,000
2017	70,400	Cord	\$235.00	\$16,544,000
2018				\$5,455,000
2017				\$2,332,000
2018	678	Acres		\$769,000
2017	779	Acres		\$917,000
2018				\$23,540,000
2017				\$19,793,000
	YEAR 2018 2017 2018 2017 2018 2017 2018 2017 2018 2017	YEARTOTAL201873,686201770,40020182017201867820177792018201720182017	YEARTOTALUNIT201873,686Cord201770,400Cord20182017Cord2017422018678Acres2017779Acres201820182201855201855201755201855201755	YEARTOTALUNITPER UNIT201873,686Cord\$235.00201770,400Cord\$235.00201820172018678Acres-2017779Acres-2018201820171002018201720182017 <t< td=""></t<>

1 All Other Agriculture includes: Aquaculture (Bass & Catfish), Compost, Vermiculture (Worms, Worm Castings)

2 Seed Crops includes: Blackeye Bean/Cowpea, Lima Bean, Oat, Vegetable



VEGETABLE CROPS

CATEGORY	YEAR	HARVESTED ACRES	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL VALUE
Beans,	2018	415	1.10	457	Ton	\$900	\$411,000
Succulent	2017	1,882	1.10	2,070	Ton	\$810	\$1,677,000
	2018	3,673					\$25,874,000
Meions, Ali	2017	2,931					\$32,303,000
Durandrina	2018	471	49.28	23,200	Ton	\$494	\$11,461,000
Pumpkins	2017	377	17.00	6,400	Ton	\$529	\$3,386,000
Sweet Detateon	2018	2,020	14.06	28,400	Ton	\$900	\$25,560,000
sweet Polaioes	2017	2,123	16.00	33,970	Ton	\$660	\$22,420,000
Tomatoon All ²	2018	8,803					\$34,194,000
Tomatoes, All -	2017	10,377					\$47,925,000
Missellaneeus	2018	12,715					\$74,046,000
Miscellaneous °	2017	10,940					\$71,609,000
Total	2018	28,097					\$171,546,000
TOTAL	2017	28,630					\$179,320,000

1 Melons, All includes: Cantaloupe, Hami, Honeydew, Piel de Sapo, Watermelon

2 Tomatoes, All includes: Fresh, Processing

3 Miscellaneous includes: Asparagus, Beet, Broccoli, Brussels Sprout, Cabbage, Cactus Leaf, Carrot, Cauliflower, Chinese Greens, Cole Crop, Cucumber, Daikon, Edible Flower, Eggplant, Fava Bean, Garlic, Herb-Spice, Kale, Kohlrabi, Lettuce-Head, Lettuce-Leaf, Mustard Greens, Okra, Onion-Dry, Onion-Green, Pea, Pepper, Potato, Radish, Rutabaga, Spinach, Squash-All, Sweet Basil, Swiss Chard, Turnip, Vegetable, Vegetable Leaf



PEST DETECTION EMERGENCY PROJECTS 2018

To protect the agricultural and horticultural industries in Stanislaus County, 5,428 traps were placed to monitor for specific insects. Some traps contain insect pheromone attractant, while some use a food bait, and others use a color attractant.

Distribution of traps consists of 64% in residential yards, 24% in nurseries, and 12% in vineyards and orchards.

Trapping allows for early detection of invasive and destructive pests that would be detrimental to our economy, the environment, and public health.

Target pests are shown with corresponding trap

Red Imported Fire Ant

Traps Deployed: 134 *Crops Affected:* Infests agricultural & residential settings, natural habitats. Dangerous to children, elderly, pets, & wildlife





European Corn Borer

Traps Deployed: 8 *Crops Affected*: Corn, green bean, oat, potato, & rhubarb





European Grapevine Moth

Traps Deployed: 395 *Crops Affected:* Grapes & spurge laurel

Vine Mealybug

Traps Deployed: 41 *Crops Affected:* Grapes



Mexican Fruit Fly

Traps Deployed: 221 *Crops Affected:* Apple, apricot, citrus, nectarine, pear, plum, peach, & pomegranate









Japanese Beetle

Traps Deployed: 204 Crops Affected: Roses & turf





Light Brown Apple Moth

Traps Deployed: 435 Crops Affected: Alfalfa, almond, apple, berries, broccoli, citrus, corn, grapes, stone fruit, & tomato





Gypsy Moth

Traps Deployed: 204 Crops Affected: Most trees





Traps Deployed: 435 Crops Affected: Almond, apple, apricot, citrus, fig, grape, nectarine, olive, peach, pear, plum, pomegranate, tomato, & walnut



Sharpshooter

Traps Deployed: 1,914 Crops Affected: Almond, citrus, grape, & peach (vector for Pierce's Disease)

Apple Maggot

Traps Deployed: 54 Crops Affected: Pome & stone fruit





Melon Fruit Fly

tomato, & walnut

Oriental Fruit Fly

Traps Deployed: 435

Crops Affected: Apple, citrus,

cucumber, fig, grape, pear,

pomegranate, stone fruit,

Traps Deployed: 221 Crops Affected: Apple, bean, cantaloupe, cucumber, grape, orange, peach, pear, tomato, & watermelon









2018 EXPORT CERTIFICATES

Export Certificates are issued to certify that the commodity meets the plant cleanliness requirements of the importing country

*Not all countries require export certificates

Total Certificates Issued **9,150** to 101 Countries

Top 10 countries exported to in 2018

Other countries exported to in 2018

COUNTRY	CERTS	COUNTRY	CERTS	COUNTRY	CERTS	COUNTRY	CERTS	COUNTRY	CERTS
Japan	965	Afghanistan	2	Bolivia	14	Denmark	8	Georgia	4
Republic of Ko	orea 679	Algeria	33	Brazil	105	Dominican Re	ep. 11	Ghana	1
Spain	679	Argentina	49	Bulgaria	15	Ecuador	28	Greece	34
Hong Kong	611	Australia	130	Canada	26	Egypt	46	Guatemala	49
United Arab En	ner. 428	Austria	5	Chile	108	El Salvador	11	Guyana	1
Turkey	390	Bahrain	27	Colombia	23	Estonia	4	Honduras	13
Germany	373	Barbados	5	Costa Rica	24	Ethiopia	7	Indonesia	144
India	357	Belarus	2	Croatia	4	Fiji	1	Iran	21
China	299	Belgium	81	Cyprus	3	France	141	Iraq	33
Mexico	243	Belize	2	Czech Repu	blic 1	French Polyne	esia 56	Ireland	10



COUNTRY	CERTS	COUNTRY	CERTS	COUNTRY	CERTS	COUNTRY	CERTS	COUNTRY	CERTS
Israel	149	Lithuania	25	Nigeria	2	Singapore	99	Trinidad & Tob	bago 2
Italy	226	Malaysia	135	Norway	21	South Africa	99	Tunisia	6
Jamaica	16	Mongolia	1	Pakistan	99	Sri Lanka	7	Uganda	1
Jordan	192	Montenegro	1	Panama	13	Sudan	7	Ukraine	18
Kazakhstan	17	Morocco	41	Peru	90	Sweden	24	United Kingdo	om 177
Kenya	20	Nepal	1	Philippines	30	Switzerland	68	Uruguay	5
Kuwait	31	Netherlands	206	Poland	6	Syria	23	Uzbekistan	2
Latvia	19	New Caledoni	ia 5	Portugal	13	Taiwan	159	Venezuela	1
Lebanon	115	New Zealand	50	Qatar	35	Tajikistan	1	Vietnam	211
Libya	10	Nicaragua	4	Saudi Arabia	155	Thailand	185	Yemen	20
								Zimbabwe	1



Agricultural Commissioner's Apiary Programs

BeeSafe

Working with stakeholders, the BeeSafe program assists with preventing apiary theft, registration of colonies moving throughout California, improvement of colony health & survival through increased foraging opportunities, & reducing pesticide exposure.

Bee Swarm Removal

The County Agriculture Department maintains a voluntary list of beekeepers that provide swarm removal. The County does not perform removals or recommend beekeepers.

Apiary Loss Investigation

County inspectors investigate apiary loss due to suspected pesticide exposure.

Quarantine Enforcement

Bee colonies coming into Stanislaus County from other counties or states may be inspected for various quarantine compliances including Red Imported Fire Ant, Africanized or Overly Defensive Bees, Hive Beetle, & American Foulbrood. Abatement actions are also performed through quarantine enforcement.

Bee Registration & BeeWhere

Beekeepers are required to register with the County Agricultural Commissioner's Office & are notified when a planned pesticide application toxic to bees occurs within a mile of the colony location. BeeWhere streamlines registration online while working in conjunction with the BeeSafe Program & Cal Ag Permits. Beekeepers, Pest Control Advisors & Farmers will receive automatic alerts if colonies are within proximity of a scheduled pesticide application, allowing measures to be taken to prevent apiary loss incidents.

beewherecalifornia.com

Apiary Certified Producers

Beekeepers wishing to sell honey at Certified Farmers' Markets may request a Certified Producer's Certificate from the County. The apiary is inspected to confirm honey production. The Certified Producer program assures consumers that the producer is selling products of their own production.

Honey Grading & Labeling

Honey grading & labeling requirements are set under Fruit, Nut & Vegetable Standardization, in addition to labeling requirements under Weights & Measures.

In general, honey sold to the public will have identity, resposibility, & quantity on the label.

Colony Strength Inspection

Acting as an independent third party, the County may perform colony strength inspections during pollination by grower or beekeeper request. This program assists with market fairness in pollination contracts.



How Does Agricultural Income in Stanislaus County Compare to State Totals?

United States	\$374,341,092,000
California	\$50,264,375,000
lowa	\$26,605,200,000
Texas	\$22,769,150,000
Nebraska	\$21,315,097,000
Minnesota	\$17,119,482,000
Illinois	\$15,931,846,000
Kansas	\$15,655,934,000
North Carolina	\$11,480,620,000
Wisconsin	\$11,330,883,000
Indiana	\$10,579,799,000
Washington	\$10,246,081,000
Missouri	\$9,882,152,000
South Dakota	\$8,954,744,000
Arkansas	\$8,922,845,000
Georgia	\$8,865,601,000
Hawaii	\$8,865,601,000
Ohio	\$8,481,031,000
North Dakota	\$7,846,655,000
Florida	\$7,642,257,000
Michigan	\$7,339,359,000
Idaho	\$7,206,960,000
Colorado	Ş6,723,375,000
Pennsylvania	\$6,721,799,000
Oklahoma	\$6,677,279,000
Mississippi	\$5,652,139,000
Кептиску	\$5,572,923,000
Alabama	\$5,572,923,000 \$5,490,879,000
Alabama New York	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000
Alabama New York Oregon	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000
Alabama New York Oregon Arizona	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000
Alabama New York Oregon Arizona Stanislaus Coun t	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 ty \$3,648,192,000
Alabama New York Oregon Arizona Stanislaus Count Montana	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 iy \$3,648,192,000 \$3,535,204,000
Alabama New York Oregon Arizona Stanislaus Count Montana Tennessee	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 ty \$3,648,192,000 \$3,535,204,000 \$3,480,910,000
Alabama New York Oregon Arizona Stanislaus Coun Montana Tennessee Virginia	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 ty \$3,648,192,000 \$3,535,204,000 \$3,480,910,000 \$3,473,692,000
Alabama New York Oregon Arizona Stanislaus Coun Montana Tennessee Virginia Louisiana	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 ty \$3,648,192,000 \$3,535,204,000 \$3,480,910,000 \$3,473,692,000 \$3,069,187,000
Alabama New York Oregon Arizona Stanislaus Coun Montana Tennessee Virginia Louisiana New Mexico	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 iy \$3,648,192,000 \$3,535,204,000 \$3,480,910,000 \$3,473,692,000 \$3,069,187,000 \$2,954,741,000
Alabama New York Oregon Arizona Stanislaus Count Montana Tennessee Virginia Louisiana New Mexico South Carolina	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 ty \$3,648,192,000 \$3,535,204,000 \$3,480,910,000 \$3,473,692,000 \$3,069,187,000 \$2,954,741,000 \$2,302,813,000
Alabama New York Oregon Arizona Stanislaus Count Montana Tennessee Virginia Louisiana New Mexico South Carolina Maryland	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 ty \$3,648,192,000 \$3,535,204,000 \$3,480,910,000 \$3,473,692,000 \$3,069,187,000 \$2,954,741,000 \$2,954,741,000 \$2,302,813,000 \$2,194,795,000
Alabama New York Oregon Arizona Stanislaus Count Montana Tennessee Virginia Louisiana New Mexico South Carolina Maryland Utah	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 by \$3,648,192,000 \$3,535,204,000 \$3,480,910,000 \$3,473,692,000 \$3,069,187,000 \$2,954,741,000 \$2,302,813,000 \$2,194,795,000 \$1,742,929,000
Alabama New York Oregon Arizona Stanislaus Count Montana Tennessee Virginia Louisiana New Mexico South Carolina Maryland Utah Wyoming	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 by \$3,648,192,000 \$3,535,204,000 \$3,480,910,000 \$3,473,692,000 \$3,069,187,000 \$2,954,741,000 \$2,302,813,000 \$2,194,795,000 \$1,742,929,000 \$1,440,875,000
Alabama New York Oregon Arizona Stanislaus Count Montana Tennessee Virginia Louisiana New Mexico South Carolina Maryland Utah Wyoming Delaware	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 iy \$3,648,192,000 \$3,535,204,000 \$3,480,910,000 \$3,473,692,000 \$3,069,187,000 \$2,954,741,000 \$2,302,813,000 \$2,194,795,000 \$1,742,929,000 \$1,440,875,000 \$1,348,273,000
Alabama New York Oregon Arizona Stanislaus Count Montana Tennessee Virginia Louisiana New Mexico South Carolina Maryland Utah Wyoming Delaware New Jersey	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 iy \$3,648,192,000 \$3,535,204,000 \$3,480,910,000 \$3,473,692,000 \$3,069,187,000 \$2,954,741,000 \$2,954,741,000 \$2,194,795,000 \$1,742,929,000 \$1,440,875,000 \$1,348,273,000 \$1,077,769,000
Alabama New York Oregon Arizona Stanislaus Count Montana Tennessee Virginia Louisiana New Mexico South Carolina Maryland Utah Wyoming Delaware New Jersey Vermont	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 iy \$3,648,192,000 \$3,535,204,000 \$3,480,910,000 \$3,473,692,000 \$3,069,187,000 \$2,954,741,000 \$2,302,813,000 \$2,194,795,000 \$1,742,929,000 \$1,742,929,000 \$1,348,273,000 \$1,348,273,000 \$1,077,769,000 \$1,077,769,000
Alabama New York Oregon Arizona Stanislaus Count Montana Tennessee Virginia Louisiana New Mexico South Carolina Maryland Utah Wyoming Delaware New Jersey Vermont West Virginia	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 iy \$3,648,192,000 \$3,535,204,000 \$3,480,910,000 \$3,473,692,000 \$3,069,187,000 \$2,954,741,000 \$2,302,813,000 \$2,194,795,000 \$1,742,929,000 \$1,348,273,000 \$1,077,769,000 \$1,077,769,000 \$1,077,929,000
Alabama New York Oregon Arizona Stanislaus Count Montana Tennessee Virginia Louisiana New Mexico South Carolina Maryland Utah Wyoming Delaware New Jersey Vermont West Virginia Maine	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 iy \$3,648,192,000 \$3,535,204,000 \$3,480,910,000 \$3,473,692,000 \$3,069,187,000 \$2,954,741,000 \$2,302,813,000 \$2,194,795,000 \$1,742,929,000 \$1,348,273,000 \$1,348,273,000 \$1,077,769,000 \$1,077,769,000 \$707,929,000 \$702,402,000
Alabama New York Oregon Arizona Stanislaus Coun Montana Tennessee Virginia Louisiana New Mexico South Carolina Maryland Utah Wyoming Delaware New Jersey Vermont West Virginia Maine Nevada	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 iy \$3,648,192,000 \$3,535,204,000 \$3,480,910,000 \$3,473,692,000 \$3,069,187,000 \$2,954,741,000 \$2,302,813,000 \$2,194,795,000 \$1,742,929,000 \$1,348,273,000 \$1,077,769,000 \$1,077,769,000 \$1,077,929,000 \$702,402,000 \$658,352,000
Alabama New York Oregon Arizona Stanislaus Coun Montana Tennessee Virginia Louisiana New Mexico South Carolina Maryland Utah Wyoming Delaware New Jersey Vermont West Virginia Maine Nevada Connecticut	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 iy \$3,648,192,000 \$3,535,204,000 \$3,480,910,000 \$3,473,692,000 \$3,069,187,000 \$2,954,741,000 \$2,302,813,000 \$2,194,795,000 \$1,742,929,000 \$1,348,273,000 \$1,077,769,000 \$1,077,769,000 \$1,077,769,000 \$702,402,000 \$658,352,000 \$532,816,000
Alabama New York Oregon Arizona Stanislaus Coun Montana Tennessee Virginia Louisiana New Mexico South Carolina Maryland Utah Wyoming Delaware New Jersey Vermont West Virginia Maine Nevada Connecticut Massachusetts	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 iy \$3,648,192,000 \$3,535,204,000 \$3,480,910,000 \$3,473,692,000 \$3,069,187,000 \$2,954,741,000 \$2,302,813,000 \$2,194,795,000 \$1,742,929,000 \$1,348,273,000 \$1,077,769,000 \$1,077,769,000 \$1,077,769,000 \$702,402,000 \$658,352,000 \$532,816,000 \$380,593,000
Alabama New York Oregon Arizona Stanislaus Coun Montana Tennessee Virginia Louisiana New Mexico South Carolina Maryland Utah Wyoming Delaware New Jersey Vermont West Virginia Maine Nevada Connecticut Massachusetts New Hampshire	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 iy \$3,648,192,000 \$3,535,204,000 \$3,480,910,000 \$3,473,692,000 \$3,069,187,000 \$2,954,741,000 \$2,302,813,000 \$2,954,741,000 \$2,302,813,000 \$2,194,795,000 \$1,742,929,000 \$1,742,929,000 \$1,348,273,000 \$1,077,769,000 \$1,077,769,000 \$1,077,769,000 \$702,402,000 \$532,816,000 \$380,593,000 \$208,964,000
Alabama New York Oregon Arizona Stanislaus Count Montana Tennessee Virginia Louisiana New Mexico South Carolina Maryland Utah Wyoming Delaware New Jersey Vermont West Virginia Maine Nevada Connecticut Massachusetts New Hampshire Rhode Island	\$5,572,923,000 \$5,490,879,000 \$5,212,391,000 \$4,791,588,000 \$4,747,655,000 iy \$3,648,192,000 \$3,535,204,000 \$3,480,910,000 \$3,473,692,000 \$3,069,187,000 \$2,954,741,000 \$2,954,741,000 \$2,302,813,000 \$1,742,929,000 \$1,742,929,000 \$1,742,929,000 \$1,348,273,000 \$1,077,769,000 \$1,077,769,000 \$1,077,769,000 \$702,402,000 \$702,402,000 \$532,816,000 \$380,593,000 \$208,964,000 \$71,553,000

Source: USDA Economic Research Service 2017 (Compared to 2017 Stanislaus County Data)

STANISLAUS COUNTY AG FACTS

AG CENSUS HIGHLIGHTS

Total Number of Farms: 3,621 -Family Farms: 94% -Orchard Farms: 64% Land in Farms: 722,546 Acres -Average Size: 200 Acres -Individual or Family Owned: 72% -Orchards: 34% Average Age of Stanislaus County Farmer: 59.6 Portion of State Ag Sales: 6% Rank in US Ag Sales: 6th Source: 2017 U.S. Census

COMMODITY RANKINGS IN THE STATE



Source: California Agricultural Statistics Review 2017-2018 & Squab Producers of California



Excerpt taken from the Crop Report Plus Series – Economic Contributions of Stanislaus County Agriculture. To view the full report, please visit our website at stanag.org.

National Ag Science Center Hall Of Fame



Local and family-owned Garton Tractor, Inc. is known for "consistently providing its customers with an experience that exceeds their needs in Sales, Service, Parts, and Rentals with Quality People, Products, and Facilities."

Since "Bud" Garton's 1954 acquisition of Corforth Tractor in Turlock, Garton Tractor has expanded to include 10 locations state-wide, including three in Stanislaus County.

Four generations of the Garton family are now involved in continuing the family legacy of "Quality People, Quality Products." Day to day operations are maintained by Bud's sons Bill and Tom as president and vice president, respectively, and grandsons Ben, Grant, Drew, and Ross.

A perennial supporter of the local community, Garton's contributions include support of the Turlock Unified School District Ag Farm, sponsorship for Danielle's Gift helping children & young adults in crisis situations, as well as fundraising for the Stanislaus County Office of Education and Turlock Christian Schools. Garton Tractor has a lasting reputation as a steady but reserved presence within the community while maintaining high standards and dedication to continual improvement in everything they do.

Farm Bureau Distinguished Service Award

Since 2006, Sheriff Adam Christianson has used the "Three P's" of prevention, protection, and prosecution in fighting crime in Stanislaus County; achieving national Farm Bureau recognition as a leader in fighting rural crime.

Under his leadership, Christianson initiated the Owner-Applied Number program to link recovered stolen property with rightful owners. He also encouraged a partnership with the Rural Crimes Task Force and the Stanislaus County Farm Bureau to reach out to the community via online interaction on Facebook with the Stanislaus Rural Crime Alert page.

With a lifetime career in policework and emergency response, he led the Sheriff's Department to great successes as well as navigated cuts and heartbreaking losses within the department during his term as Sheriff.

Instrumental in advocating for and ultimately building the newest jail in the state in Stanislaus County as well as a state-of-the-art recidivism diversion center and Coroner's Office, Sheriff Adam Christianson retired from the Sheriff's Office in January of 2019.



100 Years

Stanislaus

TANISLAU

County

2018 Recipient Sheriff Adam Christianson



Yellow Mustard, Photos by A. Fulford

University Of California Cooperative Extension, Stanislaus County

County Director Roger Duncan, Orchard Crops

Farm Advisors

Kari Arnold, Area Orchards & Pomology Theresa Becchetti, Livestock & Natural Resources Anthony Fulford, Nutrient Management/Soil Quality Jennifer Heguy, Dairy Jhalendra Rijal, PhD, Integrated Pest Management Zheng Wang, Vegetable Crops

Nutrition, Family & Consumer Sciences Programs Diana Cardenas, Community Education Specialist Haille Margarite, Community Education Specialist Stephanie Martinez, Community Education Specialist Miriam Sanchez, Community Education Specialist Rosalinda Ruiz, Community Education Specialist Jaci Westbrook, Nutrition Program Manager

4-H Youth Development Program

Emma Fete, 4-H Advisor Araceli Hernandez, 4-H Program Representative Yolanda Cruz, 4-H Administrative Secretary

Administrative & Agricultural Assistant Staff

Kim Delucchi, Office Mngr., Confidential Assistant IV Daniel Green, Agricultural Assistant II Olivia Guzman, Ag Assistant Tania Herrera, Junior Specialist Michael Rosenblum, Administrative Secretary Chang Vue, Ag Assistant Adrian Yepez, Ag Assistant

Attracting Pollinators With Cover Crops

Anthony Fulford, Nutrient Management and Soil Quality Advisor

Insect pollinators play a major role in maintaining agricultural productivity in California. Numerous crops, especially tree fruit crops like almonds that dominate the Central Valley landscape, depend on pollinators to transfer pollen throughout the orchard. Optimal pollen transfer is required to maximize flower fertilization, fruit set, and ultimately harvestable yield. Common pollinator insect species such as bees, wasps, moths, and butterflies forage for the pollen and nectar of flowering plants. Therefore, it is possible to grow flowering plant species with the primary goal of supplying food resources that will attract insect pollinators. While there are many flowering plants to choose from, a carefully selected mix of cover crop species can serve the dual purpose of building healthy soils and pollinator habitats.

Keeping the soil surface covered and increasing cropping system biodiversity are two components of healthy soils that can be achieved with cover crops. Additionally, with knowledge of proper cover crop species selection, the increased aboveground biodiversity cover crops provide can be manipulated to include species that are attractive to insect pollinators. For example, there are now commercially available cover crop species mixes designed to provide food resources for bees in almond orchards prior to almond bloom. The forage habitat provided by cover crops attracts bees to the orchard and allows them to remain healthy and active until almond bloom. Flowering cover crop species that attract insect pollinators to orchards typically include mustards such as White and Yellow Mustard, clovers such as Crimson, Rose, and Berseem Clover or Vetch. The mustards and clovers will typically be a mix of these various species, while vetch can be planted as a single species.

Cover crops have the potential to provide a diverse forage habitat for bees that keeps the colony healthy and supports the pollen transfer orchards rely on to maintain optimal productivity. However, adoption barriers such as the additional costs associated with planting cover crop seed and the water demand of cover crops must be addressed and offset by benefits to tree health and productivity to ensure economic and agricultural sustainability. Currently, UC Cooperative Extension is working to identify best management practices and economic tradeoffs of planting cover crops in almond orchards. These research efforts will help us gain a better understanding of how it may be possible to use cover crop selection to build healthy pollinator habitats and sustain agricultural productivity.

What's the Buzz on Bees?

Elina L. Niño, Apiculture Extension Specialist, UC Davis

Every February California becomes home to approximately two million honeybee colonies. They are used for pollination of nearly 200,000 acres of almond trees in Stanislaus County and later in the year for pollination of over 20 other crops in the state. While many wild bee species contribute to plant pollination, honeybees are easy to transport from place to place, they are generalists consuming pollen and nectar from numerous plant species, and there are thousands of foragers per colony that contribute to pollen transfer, making them the most important commercially available pollinator.

Unfortunately, beekeepers are still experiencing high colony losses. The latest (2018-2019) preliminary report based on the national beekeeper survey recorded 37.7% average annual colony mortality. Winter mortality was the highest since the survey began 13 years ago when Colony Collapse Disorder (CCD) was first reported. While the exact cause of CCD remains a mystery, scientists agree that it was likely caused by a combination of various environmental and biological factors.

An aptly named parasitic mite, Varroa destructor, feeds on fat bodies of adult and developing honeybees, transmits pathogens and suppresses bee's immune response, thereby amplifying the effect of various pathogens. This is one of the top issues that beekeepers face today. Researchers at UC Davis are exploring new options for biopesticides to manage mite loads particularly because many prior options have lost efficacy. Potentially a more sustainable approach to combat these mites is breeding for Varroa-resistant bees which is another avenue of research at UC Davis.

Pathogens to which honeybees are exposed are many and range from viruses to bacterial diseases and fungi. The bacterial disease American Foulbrood has the potential to become a more prevalent problem since the new Food and Drug Administration rule requires beekeepers to obtain a Veterinary Feed Directive from a veterinarian in order to purchase antibiotics. This rule is in effect to prevent antibiotic contamination of foods for human consumption, including honey. However, veterinarians do not necessarily have adequate training to diagnose honeybee diseases. UC Davis researchers are developing learning resources for veterinarians.

Pesticides have probably been the most passionately debated issue as some can cause sublethal effects and mortality in honeybees and other pollinators. Realistically, pesticides will remain a crucial component of agricultural production and we need to do our best to protect pollinators while utilizing pesticides as a part of an integrated pest management approach.

Lastly, studies show that negative effects of many of these stressors can be alleviated when bees have access to optimal nutrition. Efforts are underway at the University of California to develop and evaluate the best supplemental forage for bees in both agricultural and urban settings.

For more information: https://elninobeelab.ucdavis.edu/



Bees with Varroa Mite & Deformed Wing Virus



Queen marked green surrounded by workers



UC employee evaluating bees



Truck transporting bee hives

AGRICULTURAL COMMISSIONER PROGRAMS

PESTICIDE USE ENFORCEMENT:

- Provides for the proper, safe, & effective use of pesticides for agricultural production & protection of public health & safety
- Prohibiting, regulating or ensuring proper stewardship of pesticides for environmental protection
- Ensuring safe working conditions, use of proper protective equipment & training for employees working with or around pesticides
- Pesticide use reporting, incident investigations,
 outreach activities, & monitoring applications

FRUITS, NUTS & VEGETABLE STANDARDIZATION:

- Compliance of California's minimum standards for quality & marketing produce commercially grown &/or marketed in the state
- Direct Marketing, Certified Producers & Certified Farmers Markets
- Organic law enforcement
- Local protection to growers, marketers & consumers

CROP STATISTICS:

- Annual agricultural report regarding the gross production & value of the county's commodities
- Agriculture disaster surveys used by other agencies offering disaster relief



PEST EXCLUSION:

- Interior Pest Exclusion
 enforcement of quarantines, inspection of packages, phytosanitary certification of exports
- Exterior Pest Exclusion - enforcement of quarantines for materials subject to infestation that have crossed into California with a Stanislaus County destination
- Nursery and Seed
 licensing, pest cleanliness inspections, registration & certification, truth in labeling & quality, soil & plan laboratory permitting

PEST ERADICATION:

- Local government liaison to CDFA after a pest species is discovered
- Eradication of that particular pest species

APIARY INSPECTION:

- Registration of site location of honeybee colonies in the county
- Colony strength & health inspections

SEED CERTIFICATION:

- Inspect retail & wholesale seed sellers
- Obtain samples for seed germination & purity testing
- Labeling inspections for compliance with state requirements
- Certification services for growers & processors in cooperation with the California Crop Improvement Association

PEST DETECTION:

- Early detection of insect pests
- Administering specific "action plans" for unwanted agricultural pests
- Maintaining properly trained & equipped pest detection teams

PEST MANAGEMENT:

- Managing nuisance pests of agriculture & human health
- Programs include: glassy-winged sharpshooter, ground squirrels, capeweed, etc

NURSERY INSPECTION:

 Inspections of growing, propagation, production & sale sites of nursery stock to assure cleanliness from pests, true variety & vigorous healthy plants for sale to the consumer

AGRICULTURAL COMMISSIONER STAFF

AGRICULTURAL COMMISSIONER/SEALER OF WEIGHTS & MEASURES

Milton O'Haire

AGRICULTURAL/WEIGHTS & MEASURES INSPECTORS

Angela Bates Zach Baptista *Cari Baughman Arpinder Brar Greg Brockman Mary Canchola Gerardo Castaneda Chris Eqli Cristina Galvan Jorge Garibay Deana Guerrero Claudia Holt *Richard Homer *Amy Lomeli Melissa Lovett Forrest Meares Melanie Pellegrino Kim Reed Hector Rodriguez Carolyn Sizemore

ASSISTANT AGRICULTURAL COMMISSIONER/SEALER

Daniel Bernaciak

INFORMATION AND TECHNOLOGY *Sue Boelk

Nathan Leon Alec Lyek

ADMINISTRATIVE SUPPORT

*Susan Azevedo Misa Canales *Cassy Costa Ramona Cunningham Cheryl Horton Trina Lagier Michael Sise Debbie Wohld Jami Wright

*Crop Report Commitee Members

DEPUTY AGRICULTURAL COMMISSIONER/ SEALERS

Marline Azevedo Wendy Hahn *Steve Logan Amit Sandhu

SEASONAL AGRICULTURAL ASSISTANTS

Gay Allard-Johnson **Evelyn Barber** Sandra Blevins Susan Conyers James Friedrich George Gold Becky Graham Jose Hernandez Nela Holsapple Alexa Ladd Michael McFall Danielle Mitchell Eva Padilla Rafael Ramirez Larissa Salenik Charles Smith **Becky Swanson**

Max Wilson

WWW.STANAG.ORG

Stanislaus County Department of Agriculture & Weights and Measures 3800 Cornucopia Way Suite B, Modesto, CA 95358 Phone: (209) 525-4730 Fax: (209) 525-4790 E-mail: AGCOM50@stancounty.com Website: www.stanag.org

Brought to you by Stanislaus County Crop Report Committee

and the second second

Graphic Design by Cassy Costa