



# STANISLAUS COUNTY AGRICULTURAL REPORT

# 2021

RECOGNIZING WOMEN IN AG

## **Agricultural Commissioner / Sealer of Weights & Measures**

Kamaljit Bagri

## **Assistant Agricultural Commissioner / Sealer**

Dave Singh

## **Deputy Agricultural Commissioner / Sealer**

Judith Arroyo  
Harinder Grewal  
Wendy Hahn  
Melissa Lovett\*

## **Agricultural / Weights & Measures Inspectors**

Ana Arzate	Joseph Galdes
Zachary Baptista	Deana Guerrero
Cari Baughman*	Claudia Holt
Arpinder Brar	Richard Homer
Greg Brockman	Andrew (Ranger) Kielak
Jon Brower	Amy Lomeli*
Larrisa Camara	Melanie Pellegrino
Mary Canchola	Christine Rodriguez
Gerardo Castaneda	Amit Sandhu
Christopher Egli	Trevor Wingett
Cristina Galvan	

## **Information and Technology**

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## **Administrative Support**

Susan Azevedo  
Josie Alvarez  
Cassy Costa  
Ramona Cunningham  
Trina Lagier  
Cheryl Horton  
Michael Sise  
Debbie Wohld  
Jami Wright

## **Seasonal Agricultural Assistants**

Gay Allard-Johnson	Alexa Ladd
Evelyn Barber	Michael McFall
Sandra Blevins	Eva Padilla
Erick Cervantes	Garry Patterson
Patrick Conrad	Rafael Ramirez
James Friedrich	Marcos Rodriguez
George Gold	Charles Smith
Nela Holsapple	Rebecca Swanson

## **\*Crop Report Team**

## **County Director**

Jennifer Heguy, *Dairy*

## **Farm Advisors**

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

## **Master Gardener Program**

Anne E. Schellman, *UC Master Gardener Coordinator*

## **Nutrition, Family & Consumer Sciences Programs**

Rosalinda Ruiz, *Community Education Supervisor*  
Elizabeth Miranda, *Nutrition Care Coordinator*  
Alex Prado, *Community Education Specialist II*  
Eddie Lopez, *Community Education Specialist I*

## **4-H Youth Development Program**

Emma Fete, *4-H Advisor*  
Yolanda Cruz, *4-H Administrative Secretary*  
Araceli Hernandez, *4-H Community Educator Specialist*

## **UC Farm Advisor Support**

Jacqueline Vasquez Mendoza, *Staff Research Associate*  
Vong Moua, *Community Educational Specialist*  
Chang Vue, *Laboratory Assistant I*  
Kenneth Abeloe, *Laboratory Assistant I*  
Leslie Alfonso, *Laboratory Assistant I*  
Brooke Morris, *Laboratory Assistant I*

## **Administrative & Agricultural Assistant Staff**

Maria Hermenegildo, *Confidential Assistant IV*  
Misael Canales-Salas, *Administrative Secretary*  
Sandi Gudino, *Administrative Clerk II*  
Daniel Green, *Agricultural Assistant II*



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**On the cover:** Kelley Flower Farm owners Sharon Kelley and Kelley Bowman. Woman owned and operated. From their small two acre farm west of Modesto, Kelley Flower Farm grows, arranges, and markets flowers and bouquets for their farm stand, Modesto Certified Farmers Market, retail outlets, special events, and to wholesale florists.

**Photo Credit:** Brandi O'Donnell



# Department Of Agriculture & Weights and Measures

## **Karen Ross, Secretary**

California Department of Food and Agriculture  
and

## **The Honorable Board of Supervisors of Stanislaus County**

Buck Condit	District 1
Vito Chiesa	District 2
Terry Withrow	District 3, Chairman
Mani Grewal	District 4
Channcce Condit	District 5, Vice-Chairman

In accordance with Sections 2279 of the California Food and Agricultural Code, we are pleased to submit Stanislaus County's Agricultural Report for 2021. 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 gross value of agricultural production for 2021 was \$3,545,672,000. This represents a 2% increase from the 2020 value of \$3,476,093,000.

This year's report continues to reflect the historic pandemic that created or exacerbated challenges along supply chains. Dry winter conditions continued to plague the county, and the 2020-2021 rainfall season culminated at only slightly over 75% of normal-with over half of the seasonal rainfall coming in a two-day deluge in late January. Subsequently, most water suppliers capped or curtailed deliveries-if they were granted any at all, in the case of most Central Valley Project water contractors.

We must emphasize that gross values do not reflect production costs or profits. The value of most forage crops soared in 2021, as the dry winter provided less rangeland forage, and water for pasture and field crops was limited. In turn, with the exception of poultry, fewer livestock were raised in the county since the dry winter prevented adequate grass growth on the western hills after 2020's SCU fire. Almond yields returned to manageable levels, following a bumper crop in 2020, and prices plateaued as exports struggled amid transportation constraints. Values for fruits such as cherries and apricots rose, and plantings of olive and pistachios began to come into production, adding value. Ornamental nurseries responded to pandemic increases in house purchases and construction with increased production and sales.

We wish to express our appreciation to the agricultural producers, industry representatives and public agencies that provide data for this report. Additional thanks to the Agricultural Commissioner's agricultural report team that compiled and edited the report and to Katie Teixeira at the Stanislaus County Office of Education for the report's design.

Respectfully submitted,

Kamaljit Bagri  
Agricultural Commissioner/Sealer  
Stanislaus County

# Top 10 Commodities

Percents are portion of total County Ag Value



# Report Summary

Category	Year	Harvest Acres	Total Value
Apiary Products	2021		\$111,811,000
	2020		\$105,638,000
Field Crops	2021	591,354	\$219,525,000
	2020	588,767	\$172,816,000
Fruit & Nut Crops	2021	285,114	\$1,376,029,000
	2020	277,785	\$1,365,573,000
Livestock & Poultry	2021		\$503,209,000
	2020		\$608,798,000
Livestock & Poultry Products	2021		\$849,181,000
	2020		\$782,421,000
Nursery Products	2021	1,504	\$207,781,000
	2020	1,479	\$210,746,000
Organic Products	2021	14,418	\$69,831,000
	2020	15,283	\$37,528,000
Other Agriculture	2021		\$31,628,000
	2020	365	\$29,047,000
Vegetable Crops	2021	23,226	\$176,679,000
	2020	25,256	\$163,526,000
<b>Total</b>	<b>2021</b>	<b>915,616</b>	<b>\$3,545,672,000</b>
	<b>2020</b>	<b>908,935</b>	<b>\$3,476,093,000</b>

- Totals may not calculate due to rounding

# Apiary Products

Category	Year	Production Total	Production Units	Value Per Unit	Total Value
<b>Beeswax</b> <sup>1</sup>	2021	140,478	Lb	\$3.18	\$447,000
	2020	404,822	Lb	\$3.00	\$1,214,000
<b>Honey</b> <sup>1</sup>	2021	7,084,334	Lb	\$2.65	\$18,773,000
	2020	7,472,513	Lb	\$2.03	\$15,169,000
<b>Pollination, Almond</b>	2021	453,156	Colony	\$201.88	\$91,483,000
	2020	435,292	Colony	\$204.00	\$88,800,000
<b>Pollination, Other</b> <sup>2</sup>	2021				\$1,108,000
	2020				\$455,000
<b>Total Apiary Products</b>		<b>2021</b>			<b>\$111,811,000</b>
		<b>2020</b>			<b>\$105,638,000</b>

1 Resident colonies plus value of migratory colony production during almond pollination

2 Pollination, Other includes: Apple, Blueberry, Cherry, Cucumber, Melon, Pumpkin, Squash

**2 Hives are used to pollinate 1 acre of almonds**

**Each hive has 1 queen, a few hundred male drones, and 20,000 - 80,000 female workers**

**1 pallet holds 4-6 hives**



**DID YOU KNOW**

# Field Crops

Category	Year	Harvested Acres	Per Acre	Total	Unit	Per Unit	Sub Total	Total Value
<b>Beans, Dried All</b>	2021	4,876						\$11,183,000
	2020	7,302						\$11,831,000
Black-Eyed	2021	293	1.31	383	Ton	\$1,181.67	\$453,000	
	2020	1,062	1.15	1,200	Ton	\$1,170.00	\$1,404,000	
Limas, All <sup>1</sup>	2021	4,535					\$10,663,000	
	2020	5,576					\$9,914,000	
Beans, Dried Other <sup>2</sup>	2021	49					\$67,000	
	2020	664					\$220,000	
<b>Hay, All</b>	2021	48,109						\$45,376,000
	2020	48,520						\$33,594,000
Hay, Alfalfa	2021	13,419	7.08	95,010	Ton	\$235.27	\$22,353,000	
	2020	13,588	6.93	94,200	Ton	\$196.00	\$18,463,000	
Hay, Oat	2021	24,785	3.67	90,962	Ton	\$188.57	\$17,153,000	
	2020	25,351	2.73	69,200	Ton	\$148.00	\$10,242,000	
Hay, Wheat	2021	8,745	3.10	27,110	Ton	\$183.07	\$4,963,000	
	2020						Included in Misc	
Hay, Other <sup>3</sup>	2021	1,159					\$908,000	
	2020	9,581					\$4,889,000	
<b>Pasture, Irrigated</b>	2021	23,057			Acre	\$294.23		\$6,784,000
	2020	23,057			Acre	\$292.00		\$6,733,000
<b>Rangeland</b>	2021	400,540			Acre	\$34.78		\$13,931,000
	2020	400,540			Acre	\$36.00		\$14,419,000
<b>Seed Crops</b> <sup>4</sup>	2021			193	Acre			\$305,000
	2020			365	Acre			\$441,000



# Field Crops

Category	Year	Harvested Acres	Per Acre	Total	Unit	Per Unit	Sub Total	Total Value
<b>Silage, All</b>	2021	112,348						\$128,631,000
	2020	108,235						\$99,498,000
Silage, Corn	2021	55,664	27.27	1,517,969	Ton	\$62.05	\$94,190,000	
	2020	55,739	26.61	1,483,000	Ton	\$51.00	\$75,633,000	
Silage, Oat	2021	10,124	14.90	150,840	Ton	\$42.77	\$6,451,000	
	2020	10,355	16.25	168,000	Ton	\$36.00	\$6,048,000	
Silage, Sorghum	2021	2,811	17.98	50,535	Ton	\$52.52	\$2,654,000	
	2020						Included in Misc	
Silage, Sudangrass	2021	13,363	16.93	226,242	Ton	\$39.29	\$8,889,000	
	2020						Included in Misc	
Silage, Triticale	2021	1,894	19.40	36,751	Ton	\$49.08	\$1,804,000	
	2020						Included in Misc	
Silage, Wheat	2021	19,465	15.40	299,763	Ton	\$40.43	\$12,119,000	
	2020	18,090	15.43	279,000	Ton	\$34.00	\$9,486,000	
Silage, Other <sup>5</sup>	2021	9,027					\$2,523,000	
	2020	24,051					\$8,331,000	
<b>Miscellaneous, Field Crops</b> <sup>6</sup>	2021	2,231						\$13,315,000
	2020	1,113						\$6,741,000
<b>Total Field Crops</b>	<b>2021</b>	<b>591,354</b>						<b>\$219,525,000</b>
	<b>2020</b>	<b>588,767</b>						<b>\$172,816,000</b>

1 Limas, All includes: Baby & Large for 2021

2 Beans, Dried Other includes: Garbanzo & Unspecified

3 Hay, Other includes: Clover, Sudan, Forage. Wheat Hay separated for 2021.

4 Seed Crops includes: Black-Eye Bean/Cowpea, Lima Bean, Rice. Previously categorized in Other Agriculture.

5 Silage, Other includes: Alfalfa, Barley, Broccoli Stalks, Ryegrass, Forage. Sorghum, Sudangrass & Triticale Silage separated for 2021.

6 Miscellaneous includes: Bean Straw, Corn Grain, Corn Human Consumption, Corn-Sweet, Industrial Hemp, Rice, Safflower, Vetch, Wheat Grain, Wheat Straw

# Fruit & Nut Crops

Category	Year	Harvested Acres	Per Acre	Total	Unit	Per Unit	Sub Total	Total Value
<b>Almonds, All</b>	2021	226,578						\$1,084,744,000
	2020	217,646						\$1,123,961,000
Almonds, Meat	2021	226,578	1.16	262,349	Ton	\$3,868.80	\$1,014,975,000	
	2020	217,646	1.33	289,000	Ton	\$3,720.00	\$1,075,080,000	
Almonds, Hulls	2021			524,698	Ton	\$130.04	\$68,232,000	
	2020			579,000	Ton	\$80.20	\$46,436,000	
Almonds, Shells	2021			262,349	Ton	\$5.86	\$1,537,000	
	2020			289,000	Ton	\$8.46	\$2,445,000	
<b>Apricots, All <sup>1</sup></b>	2021	2,130						\$16,283,000
	2020	2,192						\$9,007,000
<b>Cherries, All <sup>1</sup></b>	2021	3,605						\$59,735,000
	2020	3,577						\$32,556,000
<b>Citrus, All <sup>2</sup></b>	2021	586						\$4,831,000
	2020	530						\$5,140,000
<b>Wine Grapes, All</b>	2021	7,647						\$38,233,000
	2020	8,497						\$35,557,000
Red Grapes	2021	4,600	10.15	46,686	Ton	\$494.00	\$23,063,000	
	2020	5,183	9.42	48,800	Ton	\$458.00	\$22,350,000	
White Grapes	2021	3,047	12.10	36,872	Ton	\$411.43	\$15,170,000	
	2020	3,314	9.63	31,900	Ton	\$414.00	\$13,207,000	

# Fruit & Nut Crops

Category	Year	Harvested Acres	Per Acre	Total	Unit	Per Unit	Total Value
<b>Olive</b>	2021	1,077	4.46	4,803	Ton	\$728.75	\$3,500,000
	2020						Included in Misc
<b>Pistachio</b>	2021	1,670	1.51	2,522	Ton	\$4,110.62	\$10,365,000
	2020						Included in Misc
<b>Peaches, All <sup>1</sup></b>	2021	3,387					\$31,238,000
	2020	3,396					\$31,789,000
<b>Walnuts</b>	2021	36,554	1.83	66,773	Ton	\$1,632.49	\$109,005,000
	2020	37,916	1.94	73,600	Ton	\$1,400.00	\$103,040,000
<b>Miscellaneous, Fruit &amp; Nut Crops <sup>3</sup></b>	2021	1,880					\$18,094,000
	2020	4,031					\$24,523,000
<b>Total Fruit &amp; Nut Crops</b>	<b>2021</b>	<b>285,114</b>					<b>\$1,376,029,000</b>
	<b>2020</b>	<b>277,785</b>					<b>\$1,365,573,000</b>

1 Includes: Fresh & Processing

2 Citrus, All includes: Grapefruit/Pomelos, Lemons, Mandarins, Oranges

3 Miscellaneous includes: Apples, Avocados, Berries (Blackberries, Boysenberries, Blueberries, Raspberries, Strawberries), Chestnuts, Figs, Jujube, Kiwifruit, Nectarines, Pears, Pecans, Persimmons, Plums, Pluots, Pomegranates, Prunes, Quince, Raisin Grapes, Table Grapes. Olives and Pistachos separated for 2021.

30% of agricultural acreage in Stanislaus County is Fruit & Nuts

Stanislaus ranks 3rd in statewide almond & apricot production & 4th in cherry production

2021 was a record-breaking cherry harvest

Several varieties of fruits and nuts are named after Stanislaus County locations including: Modesto, Westley & Patterson Apricots, Stanislaus Peaches, Wood Colony & Bennett-Hickman Almonds



## DID YOU KNOW

# Livestock & Poultry

Category	Year	Production Total	Total Value
<b>Cattle &amp; Calves, All</b> <sup>1</sup>	2021	265,274	\$161,971,000
	2020	338,600	\$201,783,000
<b>Goats, All</b> <sup>2</sup>	2021	18,051	\$3,564,000
	2020	20,700	\$3,063,000
<b>Poultry, All</b> <sup>3</sup>	2021	187,585,560	\$334,002,000
	2020	143,011,000	\$399,540,000
<b>Sheep, All</b> <sup>2</sup>	2021	2,910	\$558,000
	2020	4,650	\$645,000
<b>Swine</b>	2021	22,790	\$3,114,000
	2020	33,700	\$3,767,000
<b>Total Livestock &amp; Poultry</b>	<b>2021</b>		<b>\$503,209,000</b>
	<b>2020</b>		<b>\$608,798,000</b>

1 Cattle & Calves, All includes: Beef & Dairy

2 Includes: Dairy & Meat

3 Poultry, All includes: Chickens, Chicks, Chukar, Pheasant, Poults, Quail, Squab, Turkeys

Stanislaus County is home to numerous livestock associations including California Poultry Association, Squab Producers of California, Western United Dairymen

Milk and Dairy was Stanislaus' #1 Commodity for over 50 years before Almonds took the #1 spot in 2013

Stanislaus County had 165 Dairies in 2021



## DID YOU KNOW



# Livestock & Poultry Products

Category	Year	Total	Unit	Sub Total	Total Value
<b>Eggs, Chicken Market</b>	2021	36,357,404	Doz		\$36,157,000
	2020	36,413,729	Doz		\$35,321,000
<b>Eggs, Other <sup>1</sup></b>	2021				\$3,683,000
	2020				\$3,700,000
<b>Milk, All</b>	2021	41,651,246	CWT		\$801,492,000
	2020	39,300,822	CWT		\$736,644,000
Milk, Dairy Cow	2021	41,546,548	CWT	\$797,694,000	
	2020	39,171,119	CWT	\$732,500,000	
Milk, Other <sup>2</sup>	2021	104,697	CWT	\$3,798,000	
	2020	129,703	CWT	\$4,144,000	
<b>Manure, All <sup>3</sup></b>	2021	945,636	Ton		\$7,839,000
	2020	813,631	Ton		\$6,745,000
<b>Wool, All <sup>4</sup></b>	2021	20,699	Lb		\$10,000
	2020	24,700	Lb		\$11,000
<b>Total Livestock &amp; Poultry Products</b>	<b>2021</b>				<b>\$849,181,000</b>
	<b>2020</b>				<b>\$782,421,000</b>

- CWT = Hundred Weight

1 Eggs, Other includes: Duck & Quail Eggs

2 Milk, Other includes: Goat & Sheep Milk

3 Manure, All includes: Chicken, Cow, Turkey

4 Wool, All includes: Alpaca Fiber, Sheep Wool

# Nursery Products

Category	Year	Field Acres	Quantity Sold	Total Value
Nursery Fruit & Nut Trees and Vines	2021	780	27,669,935	\$145,577,000
	2020	670	20,806,000	\$163,123,000
Nursery Ornamental Trees & Shrubs	2021	438	2,770,099	\$39,678,000
	2020	510	1,935,000	\$28,519,000
Miscellaneous Nursery Products <sup>1</sup>	2021	286		\$22,525,000
	2020	299		\$19,104,000
<b>Total Nursery Products</b>	<b>2021</b>	<b>1,504</b>		<b>\$207,781,000</b>
	<b>2020</b>	<b>1,479</b>		<b>\$210,746,000</b>

<sup>1</sup> Miscellaneous includes: Cut Flowers, Strawberry Transplants, Turf, Vegetable Transplants

# Organic Products

Category	Year	Harvested Acres	Total Value
<b>Total Organic Products</b>	<b>2021</b>	<b>14,418</b>	<b>\$69,831,000</b>
	<b>2020</b>	<b>15,283</b>	<b>\$37,528,000</b>

# Other Agriculture

Category	Year	Total	Unit	Per Unit	Total Value
Firewood, All	2021	97,436	Cord	\$232.50	\$22,654,000
	2020	94,651	Cord	\$240.00	\$22,716,000
All Other Agriculture <sup>1</sup>	2021				\$8,974,000
	2020	365	Acre		\$5,890,000
<b>Total Other Agriculture <sup>2</sup></b>	<b>2021</b>				<b>\$31,628,000</b>
	<b>2020</b>				<b>\$29,047,000</b>

<sup>1</sup> All Other Agriculture includes: Aquaculture (Channel Catfish, Largemouth Bass, Silver Carp), Compost, Vermiculture, Wood Products (Mulch & Chips)

<sup>2</sup> Total Other Agriculture previously included Seed Crops.

# Vegetable Crops

Category	Year	Harvested Acres	Per Acre	Total	Unit	Per Unit	Total Value
<b>Melons, All</b> <sup>1</sup>	2021	3,458					\$28,733,000
	2020	3,211					\$25,578,000
<b>Pumpkins</b>	2021	541	25.00	13,531	Ton	\$550.00	\$7,442,000
	2020	678	31.10	21,100	Ton	\$380.00	\$8,018,000
<b>Sweet Potatoes</b>	2021	2,137	16.33	34,902	Ton	\$500.00	\$17,451,000
	2020	1,955	18.24	35,700	Ton	\$540.00	\$19,278,000
<b>Tomatoes, All</b> <sup>2</sup>	2021	8,165					\$34,061,000
	2020	8,953					\$37,991,000
<b>Miscellaneous, Vegetable Crops</b>	2021	8,925					\$88,992,000
	2020	10,459					\$72,661,000
<b>Total Vegetable Crops</b>	<b>2021</b>	<b>23,226</b>					<b>\$176,679,000</b>
	<b>2020</b>	<b>25,256</b>					<b>\$163,526,000</b>

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

2 Tomatoes, All includes: Fresh and Processing

3 Miscellaneous includes: Asparagus, Bean Succulent, Beet, Bok Choy, Broccoli, Brussels Sprout, Cabbage, Carrot, Cauliflower, Celeriac, Chinese Greens, Cilantro, Cole Crop, Collards, Cucumber, Daikon, Dill, Edible Flower, Eggplant, Fava Bean, Garlic, Herb-Spice, Kale, Kohlrabi, Lettuce, Mustard Greens, Onion, Parsley, Pea, Pepper, Potato, Radish, Rutabaga, Spinach, Squash, Sweet Basil, Swiss Chard, Turnip, Vegetable, Vegetable Leaf. Bean, Succulent previously categorized in Field Crops.

**Stanislaus County is known around the world for nursery genetics**

**There are two certified farmers markets in Stanislaus County - Modesto & Turlock**

**Stanislaus has 40 registered organic operations**



## DID YOU KNOW



# Recognizing Women in Ag





## A Place at the Table

In this 2021 report, local women making impacts on agriculture are highlighted from the Stanislaus County Farm Bureau's Women in Agriculture series and California Farm Bureau's California Bountiful Magazine. Women have always held many roles in agriculture despite its male-dominated reputation. Women can be found in every aspect—marketing, bookkeeping, sales, production, the list is interminable.

Recognizing this, agriculture statisticians have made efforts to accurately capture the leadership and influence of women within the industry by asking more granular questions about decision making on the farm. Within Stanislaus County, the 2017 National Agriculture Census reported that approximately 33% of Stanislaus producers were women, compared to 14% in the 2012 report. We expect to see similar results in upcoming census data from the 2022 survey.

Women are also now surpassing men in agricultural college degrees. Nearly 70% of the students enrolled in Modesto Junior College's Agriculture and Environmental Sciences division are women in the most recent demographic data from the 2020-2021 academic year. Data from the California State University (CSU) system shows women outpace men in applications, admissions and overall enrollment in Agriculture and Natural Resources divisions at CSUs throughout the state. Over half of all degrees awarded in Agriculture, Forestry, Fisheries and Veterinary are earned by women, according to the most recent data from the National Center for Education Statistics.

Complimentary to increases in female representation in the aforementioned data, we see women taking the reins in leadership positions like current Secretary of the California Department of Food and Agriculture, Karen Ross, and Stanislaus County Farm Bureau Executive Director Caitie Diemel. In 2021, Stanislaus County welcomed our first woman Agricultural Commissioner, Kamal Bagri, and three of four deputies within the department are women.

With fewer and fewer people originating from an agricultural background, visual representation in agriculture has become a way to market careers in agriculture in general, but especially for young women and girls. Seeing real women with successful careers in agriculture furthers the idea of "If you can see it, you can be it." The full Stanislaus County Farm Bureau Women in Agriculture articles can be found on their Facebook page, and Blumen Flower Farm is featured in the 2022 May/June California Farm Bureau's California Bountiful magazine.

## Kari Santos | I.J. Larsen Pumps, Inc.



As the Director of Operations for I.J. Larsen Pumps, Kari Santos has many responsibilities. Her family's company installs and repairs water well systems and offers 24-hour service. "I love my customers and finding new and innovative ways to help make things better, especially utilizing new technology," she says.

Santos gives credit to her father, Mike, for teaching her about the mechanics of the industry. "My dad can plan out pump curves in his head. I love learning from him. I want to get to that level." Understanding the pumps and how they piece together enables her to find vendors that offer the best deals to customers.

## Abi Fair & Sandi Dirkse | Blumen Flower Farm

*Adapted from the California Farm Bureau's California Bountiful Magazine*

Abi Fair and her mom, Sandi Dirkse, run Blumen Flower Farm. Fair was just a freshman in college when she launched the company in 2016. Her interest in growing flowers blossomed when she met a flower farmer in Ripon and ended up interning with her. With the mother and daughter team sharing most of the responsibilities, the garden has since grown to about 1,200 plants.

About 90% of the flowers go to local florists and designers working on weddings. "They could get garden roses shipped in, but they are so delicate they often don't travel very well," Fair says. "The vase life of a garden rose, at best, is going to be five to six days," Dirkse said. "So, we cut them super tight and send them out in that form."



## Antoinette Rodin | Rodin Farms



Across from the busy Riverbank Crossroads center sits a red fruit stand, Rodin Farms, run by third generation Stanislaus County rancher, Antoinette Rodin. "I work every day. I love it! I am the Fruit Stand Girl," a moniker earned from her early days running the stand.

"At about 12, I was already farming with my dad. I love to farm, I never wanted to do anything else." At about 17 years old, opening a fruit stand was suggested, which was really Rodin, a tractor, and trailer full of just-picked fruit stationed on the corner. After the first year they pulled out some grape vines, planted more fruit trees and built the stand that we recognize today.



## Barbara Alley | NuWest Milling

Barbara Alley admits that when she joined NuWest Milling, a feed mill outside of Hughson, she didn't know much about how a feed mill operated, but it didn't stop her from learning. Her motto: "Teach me." Joining NuWest in 2015 as a compliance, environmental, safety and risk manager, she was given the reins to handle all things compliance, and basically a blank slate. She created programs, researched regulations and earned personal certifications to be able to teach things like forklift safety and food safety auditing. She wrote the mills' foundational safety program required by CalOSHA, and searched for innovative and efficient ways to keep her team safe.



## Jennifer Dickey | CR Orchards



Working with growers to help ensure safety and compliance in the field as a Pesticide Inspector, and then a Food Safety Expert at MVP (now Cal Ag Safety) helped steer Jennifer Dickey's career to her current role at her family's custom farming business, CR Orchards. Her position combines management and human resources. "I really love knowing the rules and figuring out how to implement them on the farm," said Dickey. In regards to running the business, "We want [the same workers to come] back, and we give them opportunities to learn new equipment. I really respect them, I listen to their ideas and I try to speak in Spanish – the best I can."

## Falastine (Fill) Munoz | Grizzly Nut

At Grizzly Nut outside of Waterford, Fill Munoz wears lots of hats, from food safety, human resources, payroll to shipping and receiving. "I feel like my opinion is valued here," she shared. "We encourage our employees to move up. We want ladies on the lines to become forklift operators. They make more money doing that job and they're more careful moving around the plant with so many trucks during the season," shared Munoz.



## Paty Lopez | Duarte Nursery



"You have to speak up!" is Paty Lopez's lifelong motto. Lopez learned the value of expression from her family while growing up in Mexico. "My dad was a leader in our town and taught us to have confidence." Over her 30-plus years working at Duarte Nursery, she has garnered tremendous respect for speaking her mind. "I remember [there] was talk about medical insurance, before it was a requirement, and employees were hesitant. But my daughter had a heart issue and I wanted the insurance, so I said something." Lopez is passionate about regulations and requirements in California's agriculture industry, and doesn't hesitate to use her firsthand industry knowledge to express how they affect agricultural workers.

## Farmworker of the Year

**Gonzalo Torres | Braden Farms**



*Sponsored By*



The Farmworker of the Year award began in 2020 by Modesto Rotary, Stanislaus County Farm Bureau and AgSafe as a way to honor those that provide the essential work in agriculture that keeps food on our tables daily.

The second annual recognition was awarded to Gonzalo Torres, a labor and field safety supervisor for Braden Farms in Hughson. Nominated by his daughter, Vanessa, she wrote, "He is a strong example of the American Dream. Some people make excuses as to why they can't make it. He came here not knowing the language and with very little possessions." Throughout his 43 year career at Braden Farms, a lot has changed-especially automation and technology. Torres has worked in numerous areas of the Braden's 15,000 acres, and is nearing retirement. "I'm so proud to have worked for Braden Farms and seeing their family farm through multiple generations," said Torres.

### **Four other nominees were recognized:**

Second place: **Fidel Torres**, 44 years at **Riddle Ranch Huller & Sheller** in Waterford

Third Place: **Federico "Freddy" Ochoa**, 40 years at **Wenger Ranch**, walnut and almond grower near Modesto

Honorable Mention: **Raudel Mata**, three years at **Gold Leaf Farms**, Stanislaus County almond grower

Honorable Mention: **Jose Martinez**, 20 years at **Five Rings Harvesting** in Turlock



## Farm Bureau Distinguished Service Award 2021 Recipient | Wayne Zipser

For over 35 years, Wayne Zipser has represented the region's farming and ranching community interests through the Stanislaus County Farm Bureau (SCFB). Throughout his tenure with SCFB the third generation farmer from Ceres has held numerous leadership positions, both within and outside the organization. "We thank Zipser for his commitment to agriculture and his passion for the farmers, ranchers and dairymen in this county," according to SCFB's press release. Zipser retired from his nearly 20 year position as SCFB Executive Director in March of 2022. "I can think of nobody who has done more for Stanislaus County agriculture than Wayne Zipser," admired Ron Peterson, SCFB Past President.



## National Ag Science Center Hall of Fame 2021 Recipient | F&M Bank



The National Ag Science Center's 2021 Ag Hall of Fame inductee has served the agriculture and greater community since 1916. F&M Bank is a locally owned and operated community bank with 32 locations in the Central Valley and Bay Area. F&M is one of the largest agriculture lenders in the United States and the largest community bank lender to agriculture west of the Rocky Mountains. F&M Bank offers a full complement of loan, deposit, equipment leasing and treasury management products to businesses, as well as a full suite of consumer banking products. F&M Bank's high ranking for safety and security in banking; emphasis on community reinvestment; small farm creation, retention and expansion; plus support of 4-H and FFA programs has earned it a reputation for dependability among the agricultural community.

**Photo Credit:** Stanislaus County Farm Bureau

## **Agricultural Commissioner**

### **Apiary Inspection:**

- Registration of honeybee colonies
- Colony strength & health inspections

### **Crop Statistics:**

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

### **Fruit, Nut & Vegetable Standardization:**

- Enforcement of California 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

### **Nursery & Seed Inspection:**

- Inspections of production & sale sites of nursery stock to assure cleanliness from pests, true variety & healthy plants for sale to consumers
- Licensing, registration & certification, truth in labeling & quality, soil & plant laboratory permitting
- Sampling for seed germination & purity testing

### **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.

### **Pest Eradication:**

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

### **Pest Exclusion:**

- Interior Pest Exclusion
  - Annual certification of feed mills
  - Enforcement of quarantines, inspection of packages, phytosanitary certification of exports
- Exterior Pest Exclusion
  - Quarantine enforcement of materials susceptible to inspect infestation crossing into California with a Stanislaus County destination

## **Pesticide Use Enforcement**

- Provides for 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

## **Seed Certification**

- Certification services for growers & processors in cooperation with the California Crop Improvement Association

## **Weights & Measures**

### **Devices**

- Annually inspect commercial weighing & measuring devices to ensure they are correct
- Examples of commercial devices include livestock scales, vehicle scales, propane delivery trucks, fuel dispensers, deli scales & taxi meters

### **Petroleum**

- Enforce petroleum product quality, labeling & advertising requirements

### **Quantity Control**

- Determine proper weight, measure, or count of packaged goods
- Ensure package labeling requirements
- Ensure pricing accuracy at checkout

### **Service Agents**

- Review the work of licensed persons that sell, rent, install, service or repair commercial weighing and measuring devices to validate the accuracy of their work & to verify the appropriate use of commercial devices

### **Weighmaster**

- Persons licensed to certify the weighed, measured, or counted quantity of any commodity are weighmasters
- Assure accuracy of commercial transactions certified on a Weighmaster Certificate

## Pest Detection/Emergency Projects 2021

The Pest Detection Program is one of the first lines of defense against invasive insects with detrimental effects to the agriculture and horticulture industries in Stanislaus County. A team of seasonal agricultural assistants are responsible for setting and maintaining traps for target pests. Nearly 65% of traps are set in urban residential areas, as this is where most new infestations occur-as hitchhiking pests.

Unlike most Pest Control Advisor trapping to determine thresholds for pests in crops, no invasives should be found. If one is detected, swift action can be taken by agencies to delimit and eradicate the pest before infestation.

### Jackson & Champ™ Trap





**Melon Fruit Fly:**

Traps Deployed: 219  
Crops Affected: Apple, Bean, Cantaloupe, Cucumber, Grape, Orange, Peach, Pear, Tomato & Watermelon



**Mediterranean Fruit Fly**

Traps Deployed: 430  
Crops Affected: Almond, Apple, Apricot, Citrus, Fig, Grape, Nectarine, Olive, Peach, Pear, Plum, Pomegranate, Tomato & Walnut



**Oriental Fruit Fly**

Traps Deployed: 430  
Crops Affected: Apple, Citrus, Cucumber, Fig, Grape, Pear, Pomegranate, Stone Fruit, Tomato & Walnut

### Yellow Sticky Panel





**Asian Citrus Psyllid**  
(Vector for Huanglongbing Disease)

Traps Deployed: 542  
Crops Affected: Citrus



**Glassy-Winged Sharpshooter**  
(Vector for Pierce's Disease)


Traps Deployed: 1,845  
Crops Affected: Almond, Citrus, Grape, Peach




**Apple Maggot**

Traps Deployed: 21  
Crops Affected: Pome & Stone Fruit


### Red Delta





**European Grapevine Moth**

Traps Deployed: 199  
Crops Affected: Grapes & Spurge Laurel



**Vine Mealybug**

Traps Deployed: 18  
Crops Affected: Grapes



## Khapra Beetle Trap



### Khapra Beetle

Traps Deployed: 156  
Crops Affected: All Grain  
& Grain Products

## Green Delta



### Spongy Moth

Traps Deployed: 203  
Crops Affected: Most Trees

## Protein Basket



### Red Imported Fire Ant

Crops Affected: Infests agricultural  
& residential settings & natural  
habitats. Dangerous to children,  
elderly, pets, livestock & wildlife.

## Pherocon 1C™



### European Corn Borer

Traps Deployed: 8  
Crops Affected: Corn, Green  
Bean, Oat, Potato  
& Rhubarb

## Japanese Beetle Trap



### Japanese Beetle

Traps Deployed: 203  
Crops Affected: Roses  
& Turf

## McPhail



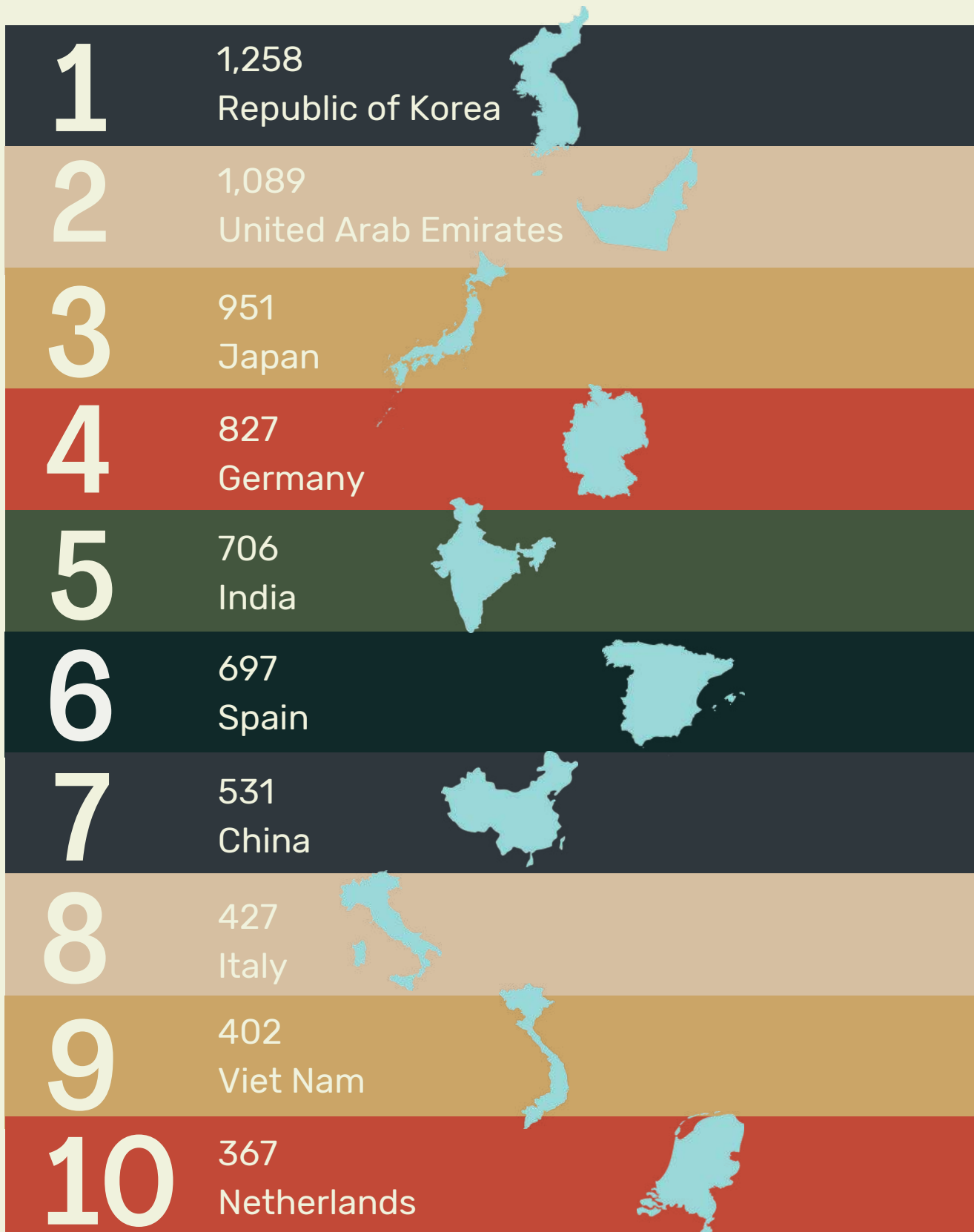
### Mexican Fruit Fly

Traps Deployed: 220  
Crops Affected: Apple, Apricot,  
Citrus, Nectarine, Pear, Plum,  
Peach & Pomegranate

*\*Target Pests are shown with corresponding trap. Insects and trap photos are not to scale*

# Top 10 Export Countries

In 2021, inspectors issued over 13,000 export certificates for commodities going to 105 different countries. Inspections certify the commodity meets the product cleanliness requirements of the importing country. Not all countries or commodities require export certificates. Almonds and Walnuts account for approximately 85% of all Export Certificates issued.



# Ag Facts

## Ag Census-Stanislaus County Farm Highlights



**3,621** Farms in Stanislaus County  
covering **722,546** acres

**94%** farmed by families



**2,131** female farmers in  
Stanislaus County

**1,985** farms have a female producer



**300,827** acres farmed by a female  
producer

**1,233** farms totaling  
**205,070** acres run  
primarily by a female



Source: 2017 U.S. Agriculture Census

Note: The Agriculture Census is conducted every five years.

## Rank and Percentage of Total State Production

**1<sup>st</sup>**

Chickens 51.1%, Turkeys 61.8%  
Dry Beans 20.5%, Firewood 50%

**2<sup>nd</sup>**

Sweet Potatoes 6.7%

**3<sup>rd</sup>**

Milk & Cream 10.7%, Almonds 16.3%  
Nursery Products 6.7%, Honey 12%  
Apricots 18.2%

**4<sup>th</sup>**

Cherries 8.6%, Irrigated Pasture 6.1%  
Grain Hay 10.7%

**5<sup>th</sup>**

Walnuts 9.3%, Silage, All 10.9%  
Peaches 5.2%  
Other Pasture and Range 5.8%

Source: California Department of Food & Agriculture California  
Agricultural Statistics Review 2020-2021

## Stanislaus County Ag Value Compared to State Ag Values

California is **11.8%** of national receipts

Stanislaus higher than **17** States  
Total Agricultural Receipts

California	\$ 51,109,546,000
Iowa	\$ 34,626,720,000
Nebraska	\$ 26,345,219,000
Texas	\$ 24,898,569,000
Illinois	\$ 21,720,187,000
Kansas	\$ 21,390,649,000
Minnesota	\$ 21,264,203,000
Indiana	\$ 14,063,061,000
North Carolina	\$ 13,283,841,000
Wisconsin	\$ 12,938,480,000
Missouri	\$ 12,388,587,000
South Dakota	\$ 11,922,827,000
Ohio	\$ 11,138,083,000
Arkansas	\$ 10,345,524,000
Washington	\$ 10,178,599,000
Georgia	\$ 9,453,604,000
Michigan	\$ 9,359,327,000
North Dakota	\$ 8,547,745,000
Idaho	\$ 8,345,633,000
Colorado	\$ 8,219,499,000
Oklahoma	\$ 7,652,355,000
Florida	\$ 7,505,578,000
Pennsylvania	\$ 7,445,232,000
Kentucky	\$ 6,863,667,000
Alabama	\$ 5,959,594,000
New York	\$ 5,897,364,000
Mississippi	\$ 5,855,937,000
Oregon	\$ 5,531,623,000
Tennessee	\$ 4,366,607,000
Montana	\$ 4,101,867,000
Arizona	\$ 3,966,931,000
Virginia	\$ 3,784,511,000
Louisiana	\$ 3,431,017,000
<b>Stanislaus</b>	<b>\$ 3,383,669,000</b>
New Mexico	\$ 3,167,829,000
South Carolina	\$ 2,697,262,000
Maryland	\$ 2,449,765,000
Utah	\$ 1,988,229,000
Wyoming	\$ 1,714,833,000
New Jersey	\$ 1,366,687,000
Delaware	\$ 1,309,641,000
Vermont	\$ 788,346,000
Maine	\$ 761,786,000
Nevada	\$ 754,152,000
West Virginia	\$ 693,114,000
Hawaii	\$ 593,191,000
Connecticut	\$ 589,438,000
Massachusetts	\$ 494,909,000
New Hampshire	\$ 189,042,000
Rhode Island	\$ 64,861,000
Alaska	\$ 43,766,000

Source: United States Department of Agriculture Economic Research  
Service 2021 Farm Income and Wealth Statistics  
September 1, 2022 update. Most recent data from 2021



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