



# 2020

SAN JOAQUIN  
COUNTY  
*Greatness grows here.*

CROP REPORT

## Story Of Recovery And Resilience

# Table of Contents

Agricultural Commissioner's Letter.....	1
Board of Supervisors & Agricultural Commissioner's Staff.....	2
Story of Recovery and Resilience.....	3
Top Ten Leading Crops, 2020.....	4
Fruit and Nut Crops 1.....	5
Fruit and Nut Crops 2.....	6
Vegetable Crops 1.....	7
Vegetable Crops 2.....	8
Field Crops 1.....	9
Field Crops 2 & Apiary Products.....	10
Nursery Products, Seed Crops & Other Agriculture.....	11
Livestock & Poultry Production.....	12
Trading Partners/Top Five Exports.....	13
Exports by Country.....	14
Certified Farmers' Market.....	15
Organic Production.....	16
Pest Exclusion.....	17
Pest Detection.....	18
Calflorra.....	19
Invasive Shot-Hole Borer.....	20
Department of Weights & Measures.....	21
San Joaquin County Ag Facts & Our Partners.....	22

## Office of the Agricultural Commissioner/Sealer

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

Dear Secretary and Board Members:

In accordance with Section 2272 and Section 2279 of the California Food and Agricultural Code, I am pleased to present the eighty-seventh Annual Report of Agricultural Production in San Joaquin County. The gross value of San Joaquin County's agricultural production for 2020 is \$3,031,279,000. This represents a 15.79% increase over the 2019 value of \$2,617,815,000.

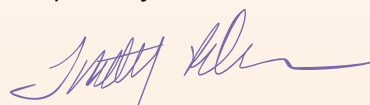
Despite some trying circumstances, multiple commodities showed some substantial gains in 2020. Fruit and Nut Crops saw an increase of 18.38% and continued to be the largest in total value at \$1,603,784,000 because of an increase in overall pricing of commodities like, Cherries up by 111% and Pistachios 43.62%. Almonds remains our number one commodity with a value of \$694,031,000, an increase of 54.35% primarily due to a record yield and increase in bearing acres. Other commodities showing gains include Vegetable Crops 13.75%, Livestock and Poultry Products 15.24%, Seed Crops 24.66%, Nursery Products 14.46%, Apiary Products 28.58% and Livestock and Poultry 2.66%.

Some commodities also saw losses in 2020 including Wine Grapes, which were valued at \$340,913,000, an 8.5% drop from the 2019 value of \$372,467,000 due to a lighter crop and fewer acres in production, however the overall price per ton was up. Other commodities seeing decreases include Walnuts 23.56%, Blueberries 3.01%, and Tomatoes 43.78%.

The values shown are estimates based on the most common method of sale for the individual commodity, except for fresh fruits and vegetables where the value is based on the F.O.B. packed price at the shipping point. The figures contained in this report are gross values of agricultural commodities rather than net returns to the grower.

I wish to express my gratitude to all who cooperated in providing data for this report, including our agricultural producers, industry representatives and other public agencies. A special thank you to San Joaquin Delta College students, Kevin Heng and Vincent Lawraunce Jones, for their help to create this year's layout. I would also like to express my sincere thanks to the Agricultural Commissioners staff, especially Agricultural Biologist/Standards Inspectors Israel Arambula, Jatinder Gill, and Jana Labrucherie for all the hard work and diligence in compiling the necessary information that made this report possible.

Respectfully submitted,



Tim Pelican  
San Joaquin County Agricultural Commissioner/Sealer



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# Story of Recovery & Resilience

The year 2020 was a challenging year for the agricultural industry because of the global COVID-19 pandemic and unprecedented wildfires. The virus caused agricultural market disruption and posed major threats to our workforce. Even though packers and producers went to great lengths trying to prevent employees from contracting COVID-19, workers still became ill, or were exposed to others who were ill and forced to quarantine, which lead to tight labor market. Shelter in place ultimately affected the institutional demand for agricultural commodities from schools, hospitals, day care, offices and government establishments as these facilities shut down. Restaurant dine-in customer traffic stopped and caused significant economic damage to the industry and all of those who supplied them.

The wildfires and the resulting smoke added more to these challenges. The smoke and the heat from the wildfires affected crops as it slowed down the maturing and ripening of the crops. Some crops like winegrapes were tainted and deemed unmarketable. Smoke and dust particles affected the labor force as well. Employers were required to provide workers with N-95 masks, which were in short supply.

We commend our agricultural industry for their resilience and ability to change their business models that allowed keeping the food supply chain open while following the Center for Disease Control's (CDC) COVID guidelines, it was tough but they made it work.

The efforts made by many sectors kept the food supply going. One was the San Joaquin County Agricultural Commissioner's Office. The department with the help of California Office of Emergency Services dispersed over 1.2 million masks through partnerships with our Community Based Organizations, the Farm Bureau, and the Lodi Grape Growers Association, and by giving directly to growers. Another 66,000, N-95 masks were given to farmworkers for wildfire smoke protection.

San Joaquin County also collaborated with the California Department of Food and Agriculture (CDFA), the

Community Foundation of San Joaquin and Catholic Charities to provide housing and wrap around services to agricultural workers through The Housing for the Harvest Disaster Relief program. This service gave agricultural workers a place to recover away from their relatives and fellow workers while providing meals & other essential services while quarantined. In some cases, financial relief was available.

These are just a few examples of the efforts made by a few, there are many more stories out there, that I hope get out. This last year's grind hopefully will soon be drawing to an end, leaving us with the memories of resilience and recovery along the way. We thank all of those who sacrificed in order to see us through these unusual times.



Tim Pelican

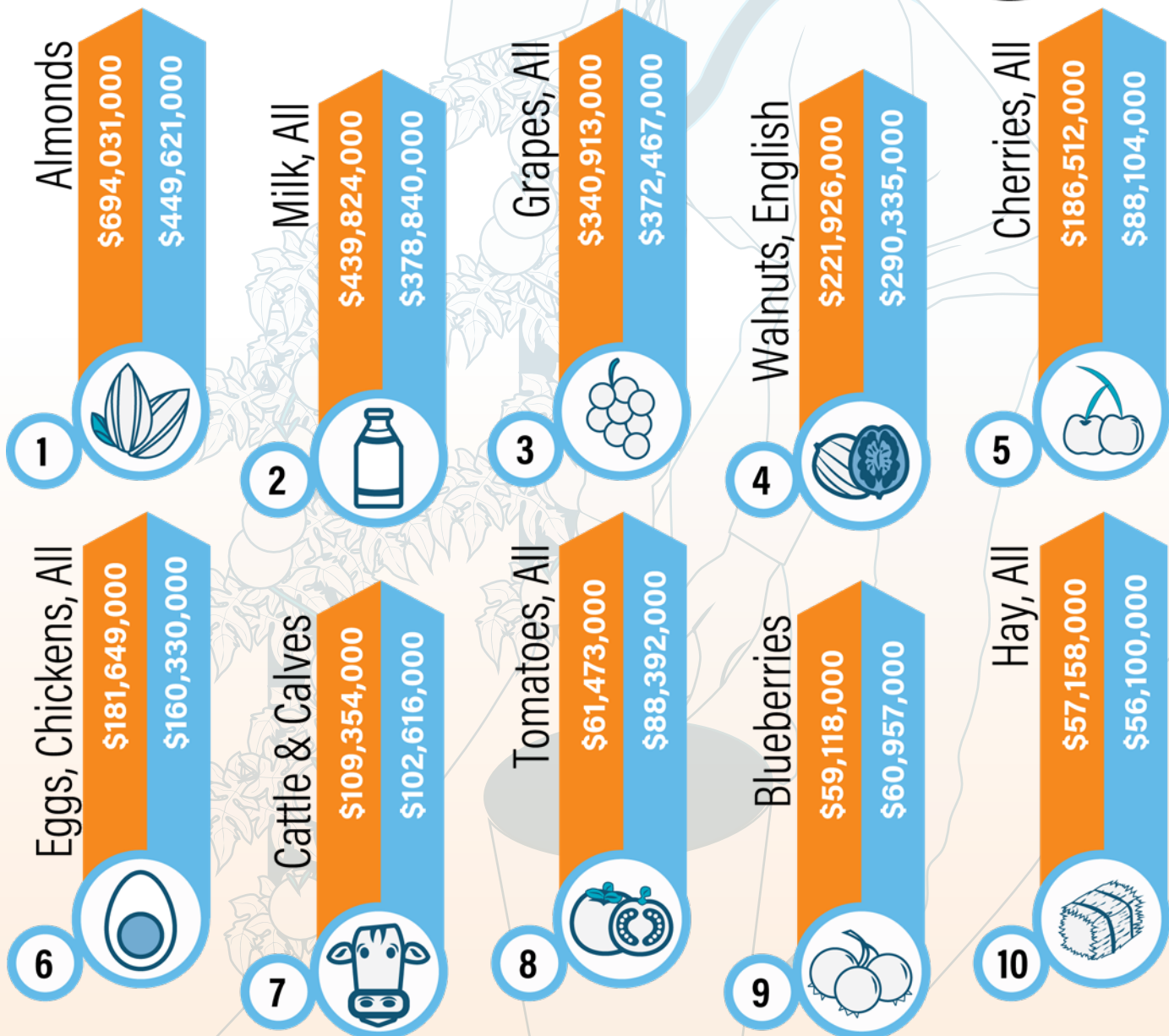
San Joaquin County Agricultural Commissioner/Sealer





# Top Ten Leading Crops

2020	Total: \$2,351,958,000
2019	Total: \$2,047,762,000





# Joan Singson

## Director of Population Management: San Joaquin General Hospital

[sanjoaquingeneral.org/the-hospital](http://sanjoaquingeneral.org/the-hospital)



"We knew we had to react quickly when COVID hit. San Joaquin County Clinics (SJCC) engaged with other county agencies and stakeholders to mitigate its impact. Part of that was identifying the most vulnerable populations, aligning our county's priorities with that of the state. Agricultural workers quickly became a focus, recognizing that agriculture drives much of our economy and work stoppage would devastate the county. Besides SJCC, other county agencies were looking into this with the same lens. Monica Nino, then County Administrator, brought us to Agricultural Commissioner Tim Pelican's circle and together we found ways for San Joaquin County Clinics to help employers keep their packing plants and farms running. This was a time when there was great concern about outbreaks leading to plant shutdowns, so the timing was critical. The strategy included offerings of testing, isolation of positives and retesting – a cycle that repeated until we cleared facilities of COVID. During this period, SJCC also helped the county's Human Services Agency establish and manage COVID positive isolation houses for people experiencing homelessness. These provided refuge for infected migrant farm workers with few resources. There they could safely isolate through their infectious phase with SJCC monitoring, until they are given a clearance to return to work. Later on California's Housing for the Harvest Program also offered help.

Towards the end of 2020, SJCC started conversations about vaccination. OG Packing and Morada Packing took lead before cherry season picked up, offering their facilities for pop-up vaccination clinics that served workers at neighboring farms, packing plants and labor contractors as well as their own. Employers offered their workers paid time off for testing and vaccination, with about 5,000 having taken advantage of pop-up clinics at agricultural employers and other sites.

With the bountiful season of Cherries and Blueberries behind us and as other crops come in, SJCC has started to work with likes of GloriAnn Farms which grows and processes Corn in South County. The whole process has been a perfect collaboration between agricultural employers, San Joaquin County Clinics, Public Health Department, the county offices of the Administrator and the Agricultural Commissioner. It really couldn't have been much better!"

### Fruit and Nut Crops 1

Crops	Year	Bearing Acreage	Production				Gross Value	
			Yield Per-Acre	Total	Unit	Value Per Unit	Subtotal	Total Value
Almond, Meats	2020	104,400	1.75	182,600	TON	\$3,800.00		\$694,031,000
	2019	102,500	0.88	89,900	TON	\$5,000.00		\$449,621,000
Almond, Hulls	2020			365,000	TON	\$100.00		\$36,528,000
	2019			180,000	TON	\$90.00		\$16,186,000
Almond, Shells	2020			182,600	TON	\$4.50		\$822,000
	2019			89,900	TON	\$4.00		\$360,000
Apples, All	2020	1,870	15.14	28,300	TON	\$455.00		\$12,852,000
	2019	1,990	18.78	37,300	TON	\$493.00		\$18,377,000
Fresh	2020			18,400	TON	\$571.00	\$10,479,000	
	2019			24,200	TON	\$624.00	\$15,114,000	
Processing	2020			9,900	TON	\$240.00	\$2,373,000	
	2019			13,000	TON	\$250.00	\$3,262,000	
Apricots	2020	550	4.77	2,630	TON	\$800.00		\$2,100,000
	2019	620	8.35	5,170	TON	\$595.00		\$3,079,000
Blueberries	2020	1,980	4.24	8,370	TON	\$7,060.00		\$59,118,000
	2019	2,210	4.68	10,370	TON	\$5,880.00		\$60,957,000
Cherries, All	2020	19,900	2.86	56,900	TON	\$3,280.00		\$186,512,000
	2019	20,000	3.74	74,700	TON	\$1,180.00		\$88,104,000
Fresh	2020			42,900	TON	\$4,310.00	\$184,967,000	
	2019			43,200	TON	\$1,950.00	\$84,443,000	
Processing	2020			14,040	TON	\$110.00	\$1,545,000	
	2019			31,460	TON	\$116.00	\$3,662,000	

Numbers may not compute exactly due to rounding.





# Kevin Phillips

## Vice President of Operations: Jahant Vineyards & Michael David Winery

[michaeldavidwinery.com/about/](http://michaeldavidwinery.com/about/)

"COVID affected our production and wine business drastically. We followed and operated under ever shifting COVID rules. In our wine making business, we had lot of people working in hospitality business and these people were not operating during this time because there were no consumers for wine tasting. We had to shut down indoor dining and gatherings.

In our wine making and grape production business, at the time of harvest season, we had our workers follow mask use, sanitizing and 6 feet social distancing protocols. Distancing was difficult; you cannot be distanced very far during harvest, so we had a single person doing a lot of operations. Smoke from wildfire tainted the grapes and affected marketing. In addition, the smoke slowed down ripening significantly. We also had labor and packaging cost inflation that increased the cost of production.

We switched to curbside pickup for wine orders, shifted people working in hospitality to warehouse in other production areas, we did couple things but it was hard. It will take time for recovery.

### Fruit and Nut Crops 2

Crops	Year	Bearing Acreage	Production			Gross Value		
			Yield Per-Acre	Total	Unit	Value Per Unit	Subtotal	Total Value
Grapes, All	2020	91,200	6.67	608,000	TON	\$560.00		\$340,913,000
	2019	95,900	7.11	682,000	TON	\$546.00		\$372,467,000
Olives, Processing	2020	5,190	4.72	24,500	TON	\$797.00		\$19,495,000
	2019	5,490	5.13	28,100	TON	\$731.00		\$20,575,000
Peaches, All	2020	1,680	14.42	24,200	TON	\$471.00		\$11,388,000
	2019	1,900	21.05	40,000	TON	\$438.00		\$17,530,000
Clingstone	2020	1,090	12.98	14,200	TON	\$480.00	\$6,799,000	
	2019	1,240	16.22	20,000	TON	\$491.00	\$9,846,000	
Freestone	2020	587	17.09	10,040	TON	\$457.00	\$4,589,000	
	2019	665	30.00	19,960	TON	\$385.00	\$7,684,000	
Pears	2020	60	11.60	700	TON	\$596.00		\$416,000
	2019	33	13.00	420	TON	\$380.00		\$161,000
Pistachio	2020	598	1.03	620	TON	\$4,225.00		\$2,604,000
	2019	407	1.07	435	TON	\$4,166.00		\$1,813,000
Walnuts, English	2020	75,100	2.08	156,000	TON	\$1,420.00		\$221,926,000
	2019	77,300	1.95	151,000	TON	\$1,930.00		\$290,335,000
*Miscellaneous	2020	970						\$2,425,000
	2019	560						\$1,758,000
Total	2020	303,000						\$1,603,784,000
	2019	309,000						\$1,354,789,000

Numbers may not compute exactly due to rounding.

\*Miscellaneous includes: Asparagus.





# Amy Blagg

## Executive Director: Lodi District Grape Growers Association

[lodigrowers.com/commission/about/](http://lodigrowers.com/commission/about/)

"Our prime focus throughout the pandemic was the health and safety of our growers, workers, and their families. As COVID cases were rising throughout the summer and fall of 2020, growers were concerned about labor availability for the harvest season. We kept our growers informed on worker safety protocols and resources such as testing. We did make it through the harvest.

On-premise sales were highly impacted by COVID shutdowns. We saw many local wineries adapt by providing curbside pickup, online ordering, and virtual events. The adaptation of increased use of outdoor space provided a safe tasting experience that fit within State and CDC guidelines.

We entered 2020 in a position of over-supply of California wine on the bulk market. A lighter than average 2020 crop, paired with a pandemic fueled increase in off-premise wine sales such as in grocery stores, led to a more increased and balanced market activity for 2021.

High summer heat affected yields across all varieties. Wildfire smoke from the numerous California wildfires led to concerns regarding winegrape quality and worker safety. With PPE shortages due to COVID, we worked with the Agricultural Commissioner to distribute N-95 masks to growers to protect themselves and their employees."

### Vegetable Crops 1

Crops	Year	Harvested Acreage	Production		Unit	Per Unit	Gross Value	
			Per-Acre	Total			Subtotal	Total Value
Carrots	2020	650	39.34	25,600	TON	\$210.00		\$5,370,000
	2019	1,130	18.92	21,400	TON	\$598.00		\$12,785,000
Corn, Sweet	2020	2,280	7.67	17,500	TON	\$265.00		\$4,623,000
	2019	2,880	4.84	13,900	TON	\$196.00		\$2,735,000
Cucumbers	2020	2,840	7.91	22,400	TON	\$199.00		\$4,456,000
	2019	2,040	7.52	15,300	TON	\$190.00		\$2,904,000
Garlic	2020	2,890	4.61	13,300	TON	\$668.00		\$8,891,000
	2019	2,142	6.40	13,706	TON	\$420.00		\$5,756,513
Melons, All	2020	2,700	36.02	97,200	TON	\$421.00		\$39,381,000
	2019	3,730	37.19	138,700	TON	\$308.00		\$38,060,000
Watermelon	2020	1,800	46.53	83,500	TON	\$430.00	\$35,937,000	
	2019	1,950	52.11	101,700	TON	\$325.00	\$33,091,000	
Other	2020	902	15.11	13,630	TON	\$368.00	\$3,444,000	
	2019	1,777	20.80	36,960	TON	\$262.00	\$4,969,000	
Onions	2020	1,960	23.65	46,400	TON	\$258.00		\$11,999,000
	2019	2,292	24.57	56,300	TON	\$303.00		\$17,071,000
Peppers	2020	520	18.58	9,700	TON	\$513.00		\$4,973,000
	2019	820	12.68	10,330	TON	\$433.00		\$4,475,000

Numbers may not compute exactly due to rounding.







# Jason Lind

## Director of Sales and Marketing: Zuckerman Farms

[zuckermanproduce.com/about-us/](http://zuckermanproduce.com/about-us/)

"The Pandemic's impact was on our fresh market potatoes. The market was almost non-existent. Seed potatoes for export were impacted because of freight and shipping closures. Our Hawaii market air shipments were not shipped because of lack of global tourism. All the input cost have gone up, fuel and lumber prices have increased which has affected the cost of running the operation.

When the outbreak started, we had safety meetings, we kept our workers up to date on COVID prevention guidelines, implemented various social distancing and other engineering controls, picked up mask from Agricultural Commissioner's Office and used in fields and packing sheds. We had set up a tent for packing potatoes, provided employees sanitizers and other supplies, hired janitorial to do electrostatic sanitizer spraying and had our employees work remotely."

### Vegetable Crops 2

Crops	Year	Harvested Acreage	Production		Unit	Per Unit	Gross Value	
			Per-Acre	Total			Subtotal	Total Value
Potatoes	2020	5,390	24.80	133,600	TON	\$600.00		\$80,205,000
	2019	5,180	18.55	96,000	TON	\$344.00		\$33,045,000
Pumpkins	2020	2,310	32.55	75,100	TON	\$425.00		\$31,888,000
	2019	2,560	23.43	59,900	TON	\$414.00		\$24,801,000
Squash	2020	1,400	9.20	12,900	TON	\$722.00		\$9,295,000
	2019	1,520	6.37	9,700	TON	\$513.00		\$4,972,000
Tomatoes, All	2020	15,500	44.22	685,000	TON	\$89.70		\$61,473,000
	2019	24,000	43.39	1,040,000	TON	\$85.00		\$88,392,000
Fresh	2020	320	35.77	11,600	TON	\$564.00	\$6,531,000	
	2019	880	21.51	18,900	TON	\$447.00	\$8,461,000	
Processing	2020	15,200	44.40	674,000	TON	\$81.60	\$54,941,000	
	2019	23,100	44.23	1,021,000	TON	\$78.30	\$79,931,000	
*Miscellaneous	2020	910						\$6,700,000
	2019	870						\$5,292,000
Total	2020	35,100						\$260,363,000
	2019	45,000						\$228,893,000

Numbers may not compute exactly due to rounding.

\*Miscellaneous includes: Asparagus.

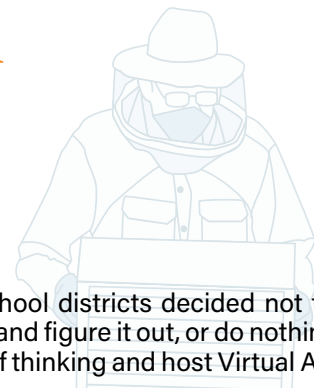




# Krista McCoon

## AgVenture Coordinator: San Joaquin County

[sjcagventure.com/about-us](http://sjcagventure.com/about-us)



"AgVenture is an in-person agriculture and nutrition education program. When school districts decided not to go back in-person this past year, it presented an obvious challenge. We had two options: adapt and figure it out, or do nothing. The notion of doing nothing did not sit well with the committee, so we decided to shift our way of thinking and host Virtual AgVenture.

To create a complete, comparable and compelling program, we hired a professional videography teams to create content to mirror our normal presentations and displays. The goal was for the videos to be educational and entertaining; not just to get through COVID-induced virtual learning, but for our digital library, so anyone around the world can watch for years to come. We did 10-minute presentation videos featuring Dairy, Pumpkins, Almonds, and Grapes, as well as, one on Corn/Soil, and Water Conservation and the MyPlate program.

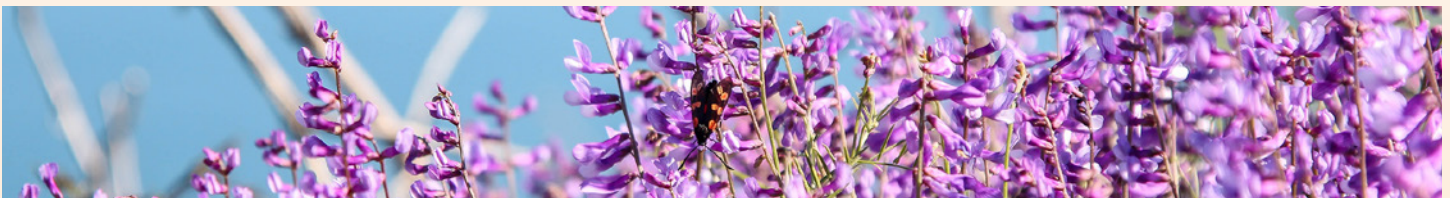
The second component was interactive AgVenture featuring displays, comparable to those typically seen when attending in-person. These live-streamed, interactive field days were hybrid in nature, coupling pre-recorded content with live-streamed, interactive dialogue. Presentations were filmed on-site at farms, ranches, green houses, with noise canceling headsets, a cell phone and a gimbal (a phone stabilizer). This pre-recorded portion was coupled with a LIVE question and answer session. Students sent in questions that were asked by a moderator and answered LIVE by the featured volunteers. As additional bonus events, we also hosted two virtual farm trips, one in the fall to a walnut orchard and huller and another in spring to talk about almond blossom and bees. Rounding out Virtual AgVenture, we created a virtual tour of San Joaquin County Agriculture covering 21 commodities, thereby highlighting the diversity of agriculture in the county. The AgVenture committee was able to turn challenge into opportunity and continue to educate students about agriculture and healthy living and promote agriculture in San Joaquin County."

### Field Crops 1

Crops	Year	Harvested Acreage	Per-Acre	Production		Per Unit	Subtotal	Gross Value
				Total	Unit			Total Value
Beans, Dry, All	2020	5,300	1.35	6,800	TON	\$1,410.00		\$9,552,000
	2019	6,000	1.28	7,500	TON	\$1,100.00		\$8,277,000
Lima	2020	2,110	1.47	3,090	TON	\$1,800.00	\$5,545,000	
	2019	2,410	1.48	3,570	TON	\$1,250.00	\$4,448,000	
Beans, Other	2020	3,160	1.27	3,700	TON	\$1,080.00	\$4,007,000	
	2019	3,620	1.15	3,900	TON	\$980.00	\$3,829,000	
Corn, Grain	2020	22,300	4.50	101,000	TON	\$197.00		\$19,777,000
	2019	27,100	4.80	130,000	TON	\$170.00		\$22,152,000
Hay, All	2020	45,600	6.82	311,000	TON	\$184.00		\$57,158,000
	2019	44,900	6.27	281,000	TON	\$200.00		\$56,100,000
Alfalfa	2020	41,700	7.11	297,000	TON	\$185.00	\$54,968,000	
	2019	39,800	6.74	268,000	TON	\$203.00	\$54,324,000	
Other	2020	3,870	3.63	14,000	TON	\$156.00	\$2,190,000	
	2019	5,090	2.57	13,100	TON	\$136.00	\$1,776,000	

Numbers may not compute exactly due to rounding.

Beans, Other Includes: Blackeye, Kidney, Garbanzo and all other Beans not listed.





## Field Crops 2

Crops	Year	Harvested Acreage	Production				Gross Value	
			Per-Acre	Total	Unit	Per Unit	Subtotal	Total Value
Pasture & Range	2020	135,000			ACRE	\$51.00		\$6,888,000
	2019	135,000			ACRE	\$51.00		\$6,888,000
Irrigated	2020	14,500			ACRE	\$225.00	\$3,263,000	
	2019	14,500			ACRE	\$225.00	\$3,263,000	
Other	2020	120,000			ACRE	\$30.00	\$3,600,000	
	2019	120,000			ACRE	\$30.00	\$3,600,000	
Rice	2020	4,990	4.39	21,900	TON	\$400.00		\$8,769,000
	2019	4,360	4.52	19,700	TON	\$343.00		\$6,767,000
Safflower	2020	2,260	1.47	3,310	TON	\$469.00		\$1,555,000
	2019	3,440	1.40	4,820	TON	\$425.00		\$2,047,000
Silage, Corn	2020	49,200	27.32	1,345,000	TON	\$62.50		\$83,999,000
	2019	45,000	27.63	1,243,000	TON	\$42.00		\$52,224,000
*Silage, Other	2020	84,000	10.47	882,000	TON	\$44.60		\$39,380,000
	2019	85,000	11.03	941,000	TON	\$37.10		\$34,934,000
Sorghum Milo	2020	900	2.10	1,900	TON	\$175.00		\$335,000
	2019	2,000	1.75	3,500	TON	\$231.00		\$798,000
Wheat	2020	17,500	2.41	42,200	TON	\$183.00		\$7,714,000
	2019	25,000	2.75	68,900	TON	\$199.00		\$13,736,000
Miscellaneous	2020	178						\$177,000
	2019	201						\$134,000
Total	2020	366,000						\$235,304,000
	2019	376,000						\$204,057,000

\*Silage, Other includes: Green Chop.



## Apiary Products

Item	Year	Production	Unit	Per Unit	Gross Value
					Total Value
Honey	2020	3,960,000	LBS	\$2.80	\$11,088,000
	2019	265,000	LBS	\$5.50	\$1,459,000
Pollination	2020	198,000	HIVE	\$185.00	\$36,781,000
	2019	204,000	HIVE	\$175.00	\$35,811,000
*Miscellaneous	2020				\$802,000
	2019				\$583,000
Total	2020				\$48,671,000
	2019				\$37,853,000

Numbers may not compute exactly due to rounding.

\*Miscellaneous includes: Pollen, Bees, Queens, Nucleus, Colonies and Beeswax.



# Jack Hamm

## Lodi Grower: Lima Ranch and Family Dairy Business

"In Dairy you have to work seven days a week, you have to be there, working remotely does not work like other sectors during COVID. The 2020 market looked like it would be fairly stable and profitable in terms of milk income, but it was very volatile. The April market closure made it difficult for everyone; people had to dump milk. Cheese prices went down as well. In June when it opened a little bit, prices were up for people who sold milk for cheese processing. Butter, powdered milk and fluid milk prices did not rebound. There was a disparity in market prices. Prices fell because of school and other institution closures. There was less consumption. The government programs kept changing and prices would go up and down accordingly. It became difficult to sell cull cows, our main income, due to the closure of slaughter plants in April in order to comply with COVID restrictions. There were shortages of supplies and it was difficult to replace things like milking equipment, electronic parts and tractors because of manufacturing plants closing down. Our people received safety training and we were lucky because of the low outdoor COVID transmission rates, our employees were okay. We would like to give credit to Agricultural Commissioner's Office for providing masks to the industry in these challenging times."

### Nursery Products

				Gross Value
Crops	Year	Quantity Sold	Unit	Total Value
Grapevines, Strawberry Plants, Fruit & Nut Trees	2020	81,335,000	PLANT	\$12,972,000
	2019	80,260,000	PLANT	\$12,631,000
Vegetable Plants	2020	184,573,000	PLANT	\$10,555,000
	2019	223,639,000	PLANT	\$11,799,000
Flowering Potted Plants	2020	1,807,000	EACH	\$9,405,000
	2019	1,846,000	EACH	\$9,486,000
Foliage Plants	2020	715,000	EACH	\$5,049,000
	2019	696,000	EACH	\$4,843,000
Bedding Plants	2020	366,000	PLANT	\$5,085,000
	2019	367,000	PLANT	\$4,977,000
Woody Ornamentals	2020	7,436,000	EACH	\$51,770,000
	2019	6,473,000	EACH	\$36,738,000
Bulbs, Rhizomes, Turf, Cactus, Etc.	2020			\$37,419,000
	2019			\$35,068,000
Total	2020			\$132,255,000
	2019			\$115,542,000

### Other Agriculture

					Gross Value
Crops	Year	Total	Unit	Per Unit	Total Value
Biomass/Firewood	2020	89,750	CORD	\$170.00	\$15,258,000
	2019	89,880	CORD	\$170.00	\$15,279,000

### Seed Crops

				Production		Gross Value	
Crops	Year	Harvested Acreage	Per-Acre	Total	Unit	Per Unit	Total Value
*Miscellaneous	2020	1,850			CWT		\$4,090,000
	2019	1,579			CWT		\$3,281,000

Numbers may not compute exactly due to rounding.

\*Miscellaneous includes: Bean Seed.





# Kenny Watkins

## Linden Grower: Watkin Brothers

"COVID had closed everything, but agriculture had to keep going, cattle had to be fed, dairy cows had to be milked and pumps had to continue pumping. Getting supplies and parts was challenging which caused our day-by-day operations slowed down. We tried to spread the crew as much as possible under the social distancing mandate. This created slowdowns in all aspects of our business. The meat market returns were horrible and packing plants were forced to shut down causing cattlemen to downsize because the returns weren't viable in supplementing their feed needs. Because five packers control 85 percent of the cattle business nationwide most of the share went into the packer's pocket but not at the producer's level. The Walnut market wasn't good. There was labor shortage because of fear among the workforce of contracting COVID through contact with other workers. It caused efficiency to decline while the costs of running our business went up. Hiring pickers for harvesting Peaches, Cherries and other crops was difficult. Major grower organizations such as The Farm Bureau, The Farm Service Agency and the Natural Resources Conservation Service were all closed. Other local events like the Tulare Farm Show, annual Farm Bureau Convention and the Cattleman's Convention were all cancelled. This resulted in being unable to get or share information about Covid relief grants or informational guidelines to solve problems."

### Livestock and Poultry

						Gross Value
Item	Year	No. Head	Live Weight	Unit	Per Unit	Total
Cattle & Calves	2020	128,000	1,022,000	CWT	\$107.00	\$109,354,000
	2019	127,000	1,016,000	CWT	\$101.00	\$102,616,000
Sheep & Lambs	2020	9,900	15,300	HD	\$147.00	\$2,256,000
	2019	9,800	15,200	HD	\$145.00	\$2,203,000
Broilers	2020	395,000	1,727,000	LBS	\$1.52	\$2,629,000
	2019	540,000	2,361,000	LBS	*\$1.52	\$3,589,000
Turkeys	2020	228,000	4,819,000	LBS	\$0.82	\$3,941,000
	2019	226,000	4,729,000	LBS	\$0.86	\$4,067,000
*Miscellaneous	2020					\$6,125,000
	2019					\$8,610,000
Total	2020					\$124,305,000
	2019					\$121,085,000

\*Miscellaneous includes: Hogs, Goats, Squab, Ducks, and other Fowl.

\*Value corrected for calculation error.

### Livestock and Poultry Products

					Gross Value
Item	Year	Production	Unit	Per Unit	Total
Milk, All	2020	23,520,000	CWT	\$18.70	\$439,824,000
	2019	23,100,000	CWT	\$16.40	\$378,840,000
Wool	2020	67,000	LBS	\$2.20	\$148,000
	2019	67,000	LBS	\$2.20	\$147,000
Eggs, Chicken, All	2020	60,550,000	DOZ	\$3.00	\$181,649,000
	2019	63,299,000	DOZ	\$2.53	\$160,330,000
Manure	2020	220,000	TON	\$4.03	\$886,000
	2019	220,000	TON	\$4.03	\$887,000
Total	2020				\$622,507,000
	2019				\$540,204,000

Numbers may not compute exactly due to rounding.

# Trading Partners

## Top Ten by Number of Phytosanitary Certificates

### Countries

ROK	1633	Mexico	222	Egypt	57	Jordan	28	Libya	16	Qatar	7
Japan	1190	Morocco	198	Brazil	57	Singapore	28	Cambodia	15	Denmark	7
UAE	943	Netherlands	138	Algeria	57	France	25	DOM REP	14	Belarus	7
Turkey	916	Australia	138	Kuwait	51	Sweden	25	Argentina	12	Peru	6
Taiwan	691	Israel	125	Chile	50	Malaysia	20	Jamaica	11	Oman	6
Canada	682	Thailand	118	Greece	48	Bahrain	20	Honduras	10	Nepal	6
India	654	UK	81	Philippines	46	Nicaragua	20	Tunisia	9	Belgium	5
China	563	Hong Kong	80	Norway	45	Iraq	19	Lithuania	9	Switzerland	4
Italy	523	SA	77	Latvia	40	Colombia	19	Guatemala	8	Poland	4
Vietnam	447	Pakistan	65	Panama	39	Portugal	19	USA	8	Moldova	4
Germany	347	Afghanistan	64	Lebanon	39	ZA	19	Bangladesh	7	El Salvador	4
Spain	253	Kazakhstan	59	Estonia	29	Indonesia	18	Costa Rica	7	Georgia	4

ROK: Republic of Korea, UAE: United Arab Emirates, UK: United Kingdom, SA: Saudi Arabia,  
USA: United States of America, DOM REP: Dominican Republic, ZA: South Africa | Total Certificates Issued: **11292**

## Top Five Exports





# Exports by Country

Top Ten Countries by number of Phytosanitary Certificates

Traded less than 400 times

Other Countries



1

ROK

2

Japan

3

UAE

4

Turkey

5

Taiwan

6

Canada

7

India

8

China

9

Italy

10

Vietnam

## Rice TONS

China	82,217
Japan	69,448

## Walnuts TONS

Turkey	8,295
Other Countries	8,145
Germany	6,573
Italy	4,950
UAE	3,895
Spain	3,808
Japan	3,192
ROK	2,168
Canada	1,681
Pakistan	1,540
Vietnam	1,304

## Almonds TONS

Other Countries	11,442
India	6,228
Spain	4,689
Germany	3,261
China	2,400
UAE	2,102
Japan	2,068
Italy	1,867
Netherlands	1,796
Turkey	1,495
Canada	1,451

## Cherries TONS

ROK	4,017
Japan	1,829
Vietnam	870
Taiwan	586
Canada	567
Mexico	538
China	378
Thailand	237
Other Countries	181
Australia	165
Norway	153

## Onions TONS

Taiwan	6,690
DOM REP	116
Mexico	2
Costa Rica	1

# Certified Farmers' Market

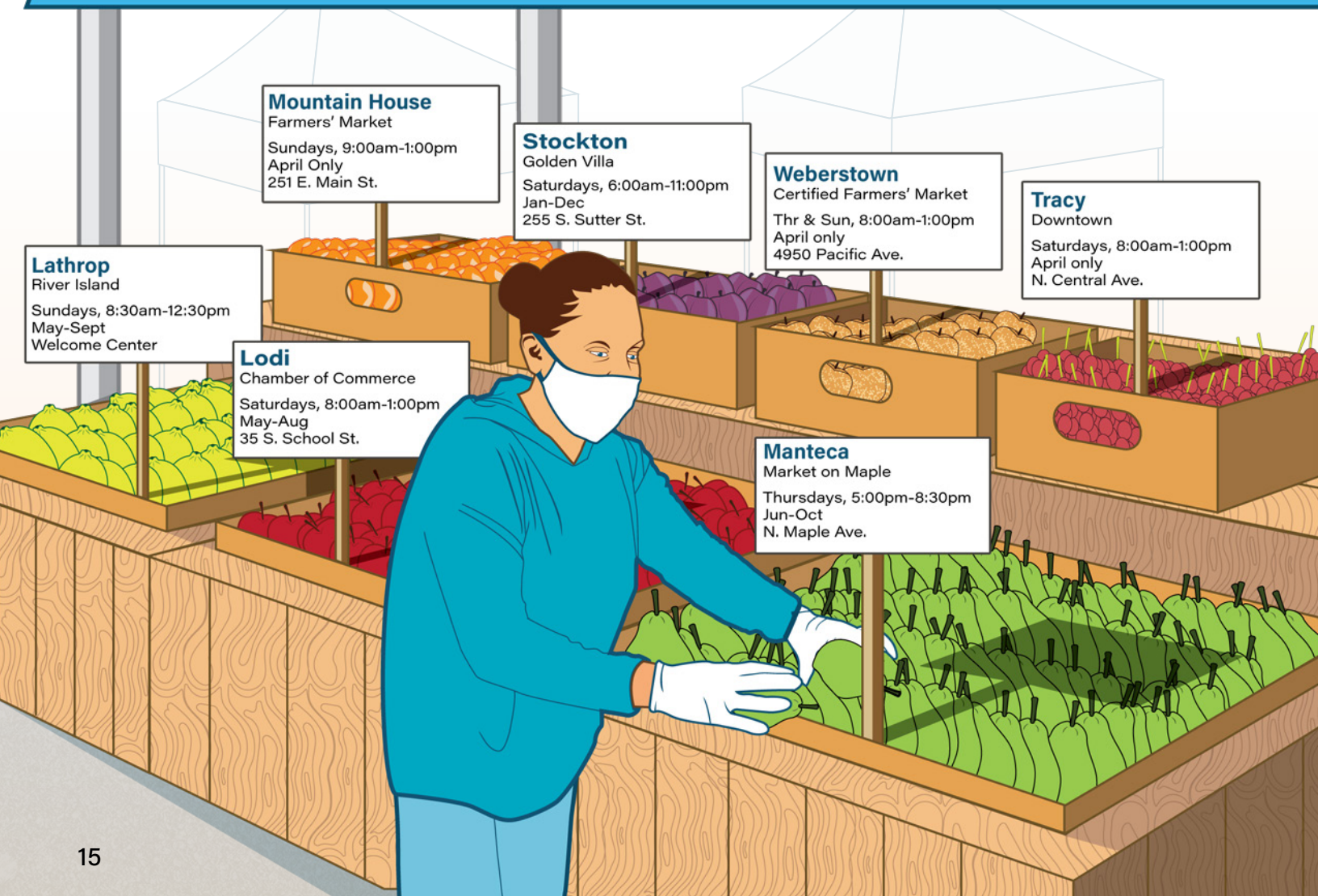
A certified farmers' market (CFM) is a location where a certified producer can sell the produce they grow directly to the general public. The certified producer's certificate lists all the crops and amounts produced.

Consumers benefit by offering the highest quality and freshest seasonal produce offered by local growers. The producer benefits from CFM by cutting down the middleman and the other added expenses of commercial packing. Our communities benefit by offering a wholesome place for growers and vendors of all types to directly engage with their customers. Many times multiple activities are provided as a part of the market experience.

## What is the Agricultural Commissioner's Office role?

The Agricultural Commissioner's Office authorizes and certifies producers to sell at CFM after inspecting their production and storage sites. The certified producer's certificate lists all the crops and amounts produced and are certified by the Agricultural Commissioner's Office. In San Joaquin County there are 85 certified producers and the county hosts 7 certified farmer's markets.

## San Joaquin County Farmers' Markets



### Mountain House

Farmers' Market

Sundays, 9:00am-1:00pm  
April Only  
251 E. Main St.

### Stockton

Golden Villa

Saturdays, 6:00am-11:00pm  
Jan-Dec  
255 S. Sutter St.

### Weberstown

Certified Farmers' Market

Thr & Sun, 8:00am-1:00pm  
April only  
4950 Pacific Ave.

### Tracy

Downtown

Saturdays, 8:00am-1:00pm  
April only  
N. Central Ave.

### Lathrop

River Island

Sundays, 8:30am-12:30pm  
May-Sept  
Welcome Center

### Lodi

Chamber of Commerce

Saturdays, 8:00am-1:00pm  
May-Aug  
35 S. School St.

### Manteca

Market on Maple

Thursdays, 5:00pm-8:30pm  
Jun-Oct  
N. Maple Ave.



A worker at Alpine Blue Farms, Stockton, CA.

## Michael Sadek

### U-Pick, Ranch Manager: Joe Gotelli & Sons

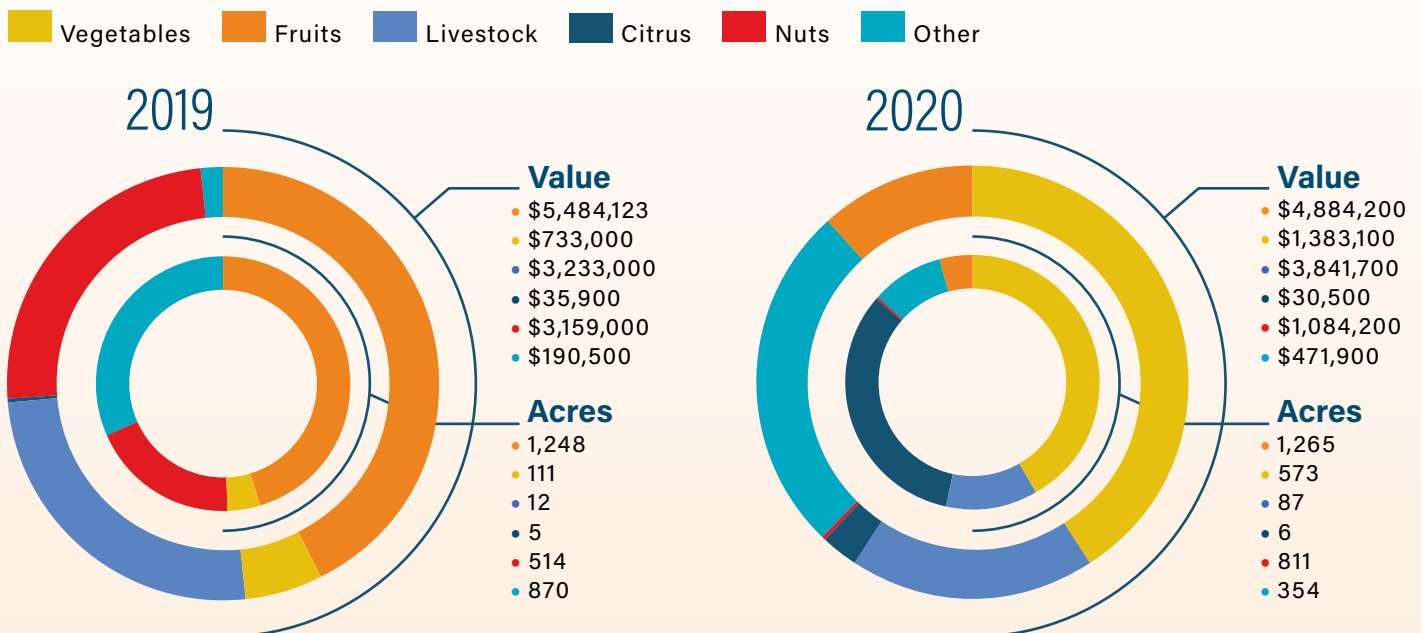
"The U-Pick season for Blueberries runs from mid-May through mid-June. The year 2020 was not what we normally see, the market was definitely down about 25% than the normal year but it was pretty good. There was demand for blueberries and other U-Pick crops. People showed up and were masked; we provided sanitizers and followed the CDC COVID rules. We had families that stayed together as they picked, everyone else was separated. The market and pricing was strong."

## Organic Production

Organic farmers rely on crop rotation, cover crops and dense planting to enrich the soil in which they grow their crops. According to United States Department of Agriculture (USDA), "produce can be called organic if it's certified to have grown on soil that has had no prohibited substances applied 3 years prior to harvesting."

### What is the Agricultural Commissioner's Office role?

The Agricultural Commissioner's Office conducts organic produce inspections, and residue sampling overseen by the California State Organic Program. San Joaquin County registered 46 organic producers, 40 organic handlers, and 5 organic processors in 2020. There were 3096 certified organic acres growing crops with a gross value of \$11,695,600.





# Pest Exclusion

Pest Exclusion is our first line of defense against pests that are non-native to San Joaquin County. Our mission is to prevent the introduction and spread of exotic pests within the County. Our Agricultural Biologists conduct multiple inspections throughout the County at our multiple parcel facilities, nurseries and other various shipping locations.



Sacramento County Dog Team: Michelle King and Kernul the dog.



San Joaquin County Biologist conducting an incoming shipment inspection.

## Pests Intercepted

	Pest	Number of Finds	Rating
	Insect Eggs	6	Q
	Scale Insects	5	Q
	Whiteflies	1	Q
	Hemiptera	1	Q
	Lesser Snow Scale	8	A
	Albopicta Scale	1	A
	Boxwood Scale	1	A
	Black Thread Scale	1	A

## Shipments Inspected

	Type	Year	Number Inspected
	Parcel	2020	8,436
	Nursery Blue Tag	2020	2,954
	Truck	2020	408
	Air Freight	2020	189
	Sea Freight	2020	17
	Seed Shipments	2020	44
	Gypsy Moth	2020	5

# Pest Detection

Pest Detection is the second line of defense protecting our agricultural industry against invasive pest that can be devastating to our agricultural economy. Early detection and localized eradication is essential to stop an infestation from becoming established. Being able to prove to our trade partners that exotic pests do not reside in San Joaquin County is necessary for us to export the many commodities we grow. In 2020, San Joaquin County pest detection surveyors placed and monitored a total number of 13,735 traps for the following pests:



**General Fruit Fly**  
**Trapping Season:** April-Oct  
**Host:** Fruit Trees  
**Traps Deployed:** 39  
**Trap Type:** Champ Trap



**Glassy Winged Sharpshooter**  
**Trapping Season:** Feb-Oct/Apr-Oct  
**Host:** Ornamentals  
**Traps Deployed:** 2,800 (Nursery)  
**Trap Type:** Yellow Panel Trap



**Japanese Beetle**  
**Trapping Season:** June-Sept  
**Host:** Turf/Landscape  
**Traps Deployed:** 237  
**Trap Type:** Japanese Beetle Trap

© 2017, Thomas Sahan/Oregon Department of Agriculture, "Japanese Beetle", Photo of a Japanese Beetle, Cut out with Photoshop.



**Mediterranean Fruit Fly**  
**Trapping Season:** April-Oct  
**Host:** Fruit Trees  
**Traps Deployed:** 625  
**Trap Type:** Jackson Trap

© Katja Schulz, Flickr.com. Photo, "Mediterranean Fruit Fly" Cut out with Photoshop.



**Oriental Fruit Fly**  
**Trapping Season:** April-Oct  
**Host:** Fruit Trees  
**Traps Deployed:** 625  
**Trap Type:** Jackson Trap

© 2008, IAEA Image Bank, "Bactrocera dorsalis (complex) (06410589)", Photo of a Oriental Fruit Fly, Cut out with Photoshop.



**Asian Citrus Psyllid**  
**Trapping Season:** Year Round  
**Host:** Citrus  
**Traps Deployed:** 686  
**Trap Type:** Yellow Panel Trap



**European Grapevine Moth**  
**Trapping Season:** Feb-Sept  
**Host:** Vineyards  
**Traps Deployed:** 3,504  
**Trap Type:** Red Delta Trap

© 2017, Ben Sale, Flickr.com, "[1107] Lobesia Botrana", Photo of a European Grapevine Moth, Cut out with Photoshop.



**General Fruit Fly**  
**Trapping Season:** June-Sept  
**Host:** Fruit Trees  
**Traps Deployed:** 351  
**Trap Type:** McPhail Trap



**Gypsy Moth**  
**Trapping Season:** June-Sept  
**Host:** Shade Trees  
**Traps Deployed:** 346  
**Trap Type:** Delta Trap



**Light Brown Apple Moth**  
**Trapping Season:** April-Oct  
**Host:** Fruit Trees  
**Traps Deployed:** 685  
**Trap Type:** Jackson Trap

© 2008 Donald Hobern, "Epiphyas postvittana", Photo of a Light Brown Apple Moth, Cut out with Photoshop.



**Melon Fruit Fly**  
**Trapping Season:** June-Sept  
**Host:** Vegetable Garden  
**Traps Deployed:** 348  
**Trap Type:** Jackson Trap



**Vine Mealybug**  
**Trapping Season:** Feb-Sept  
**Host:** Vineyards  
**Traps Deployed:** 3,489  
**Trap Type:** Red Delta Trap





# Calflora

[calflora.org](http://calflora.org)

Calflora is a not-for-profit organization created by Ann Dennis in the 1990's while working for the US Forest Service. It's a database for wild plants growing and their distribution in California. The database first became available online for the public in the year 2003 . In 2012, Calflora released a free smartphone application, "Cal Observer", for users to report of wild plants. Many invasive weed species are reported throughout the state through Calflora (see picture). In San Joaquin County, we utilize Cal Observer as one of the tools to collect and report location data of the noxious weed species growing within the County. The data collected will ultimately help land managers, growers and other government agencies in planning for their weed management program.

## Noxious Weeds Surveillance Program

As defined in California Food and Agriculture Code 5004, noxious weed is any species of plant that is, or is liable to be, troublesome, aggressive, intrusive, detrimental, or destructive to agriculture, silviculture, or important native species, and difficult to control or eradicate, which the director, by regulation, designates to be a noxious weed. Due to the nature of noxious weed that significantly impacts the agricultural industry and environment, it is essential to obtain location information and degree of infestations to assist the public in weed control measures. San Joaquin County staff performed weed surveillance during the vegetative and reproductive growth stages of the noxious weeds. The most common noxious weed species that were found in San Joaquin County are *Cynaracardunculus* (Artichoke Thistle), *Carduus tenuiflorus* (Italian thistle), *Acroptilon repens* (= *Rhaponticum r.*) (Russian Knapweed), *Alternanthera philoxeroides* (Alligator Weed) and *Centaurea solstitialis* (Yellow Starthistle).



Photos of Russian Knapweed on Staten Island, San Joaquin County, CA.



# Invasive Shot-Hole Borer (ISHB)

[ucanr.edu/sites/pshb/](http://ucanr.edu/sites/pshb/)

The Invasive Shot Hole Borer (ISHB) refers to two closely related and physically identical species: Polyphagous Shot Hole Borer and Kuroshio Shot Hole Borer. ISHB were first detected in 2012 in Los Angeles and continued to spread to Orange, Santa Barbara, and San Luis Obispo Counties. Genetic studies indicates that ISHB originated in Southeast Asia. How ISHB arrived in California is uncertain, but it was presumably introduced through wood packaging or plant material. ISHB, like other ambrosia beetles, does not eat wood but excavates tunnels in host trees, and consumes the fungus that it "farms" inside. ISHB and the fungal pathogens that it carries are known to cause "Fusarium die back" in susceptible trees. ISHB has caused considerable damage in Southern California. As part of the early detection program in non-infested counties, San Joaquin County participates in a statewide ISHB survey. Traps are set at high-risk sites, which includes campgrounds, green waste processing facilities, and nurseries to target reproductive hosts. The traps are serviced regularly during the trapping season (spring and fall months).



Source:  
2015, Gevork  
Arakelian,  
LA County  
Department of  
Agriculture

Image of a Shot-Hole Borer.



ISHB sticky trap deployed in  
San Joaquin County.



Infested California Sycamore. Courtesy of UC Agriculture and Natural Resources.



## Host Species

- Big Leaf Maple
- Black Cottonwood
- Box Elder
- California Sycamore
- Fremont Cottonwood
- Red Willow

## Infested Counties

- San Bernardino
- Los Angeles (point of origin)
- Riverside
- Orange County



Close up of an infested California Sycamore.



All photos of ISHB infestation courtesy of UC Agriculture and Natural Resources.

# Department of Weights and Measures

## Measuring up to the New Normal

The Division of Weights and Measures is mandated by state law to protect the economic interest of all buyers and sellers of every transaction involving the exchange of goods, property, and services. Our mission is to promote equity, protect consumers and businesses alike, and enforce when necessary laws and regulations to safeguard the economic health of every citizen and competing business in the county.

## 2020 Division Highlights

This year the Division worked within the directives of COVID-19 guidelines, we were able to test the majority of our programs with minimal contact with the general public. Determining what programs were deemed essential, the division targeted devices that would have the largest economic impact on consumers. Taking all necessary safety precautions, the division completed nearly 90% of the devices registered annually in the county. With all of the restrictions, it was still a very successful year in Weights & Measures.

## Device Inspections, 2020

### Computing Scales

2020 Inspections: 1630  
Compliance: 97.6%



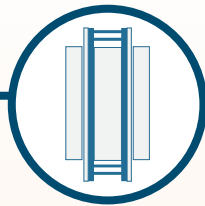
### Counter Scales

2020 Inspections: 314  
Compliance: 99.0%



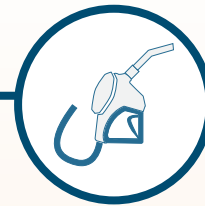
### Railroad Scales

2020 Inspections: 13  
Compliance: 100.0%



### Retail Motor Fuel Dispensers

2020 Inspections: 6813  
Compliance: 94.5%



### Retail Water Meters

2020 Inspections: 136  
Compliance: 96.4%



### Vehicle Scales

2020 Inspections: 284  
Compliance: 89.9%



### Taximeters

2020 Inspections: 7  
Compliance: 93.3%



### Total Inspections

9,197

### Average

### Compliance:

94.95%



# San Joaquin County Ag Facts

**County Seat:**  
Stockton

**County Population:**  
762,148

**Total # of Farms:**  
3,430

**Land in Farms:**  
772,762 Acres

**Lowest Elevation in County (Delta Area):**  
23 Feet Below Sea Level

**Highest Elevation in County (Southwest Hills):**  
4,266 Feet Above Sea Level

**Incorporated Cities:**  
Escalon, Lathrop, Lodi, Manteca, Ripon, Stockton, Tracy

**Unincorporated Cities:**  
Acampo, Clements, Collierville, Farmington, French Camp, Linden  
Lockeford, Morada, Mountain House, Thornton, Victor, Waterloo, Woodbridge



In partnership with

Almond Alliance of California, American AgCredit, California Cherry Board, California Walnut Board, Lodi Winegrape Commission, Lodi Grape Growers Association, San Joaquin County Cooperative Extension, San Joaquin Delta College Students, San Joaquin Farm Bureau



# Simms Station

The San Joaquin County Agricultural Commissioner's Office bids farewell to the satellite office, also known as Simms Station, located at 17620 E. Hwy 120, Ripon California. Simms Station opened in year 1998 to consolidate three other offices located in Tracy, Manteca and Escalon. After 24 years of service to our growers and processors, the office is closed as of May 28, 2021.

