

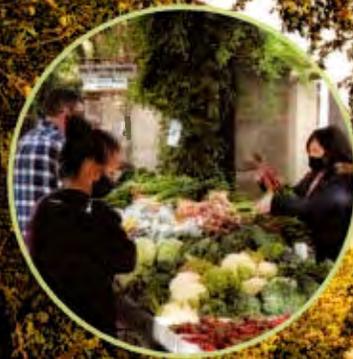
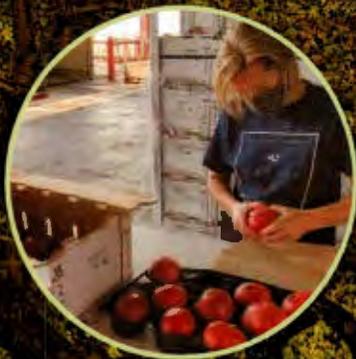


DEPARTMENT OF AGRICULTURE
and
WEIGHTS AND MEASURES

2020 CROP REPORT

ESSENTIAL AGRICULTURAL WORKERS

On Call • On Duty • Operating in the Workplace Safely



FRESNO COUNTY AGRICULTURE *SHINES* IN 2020, A YEAR UNLIKE ANY OTHER!

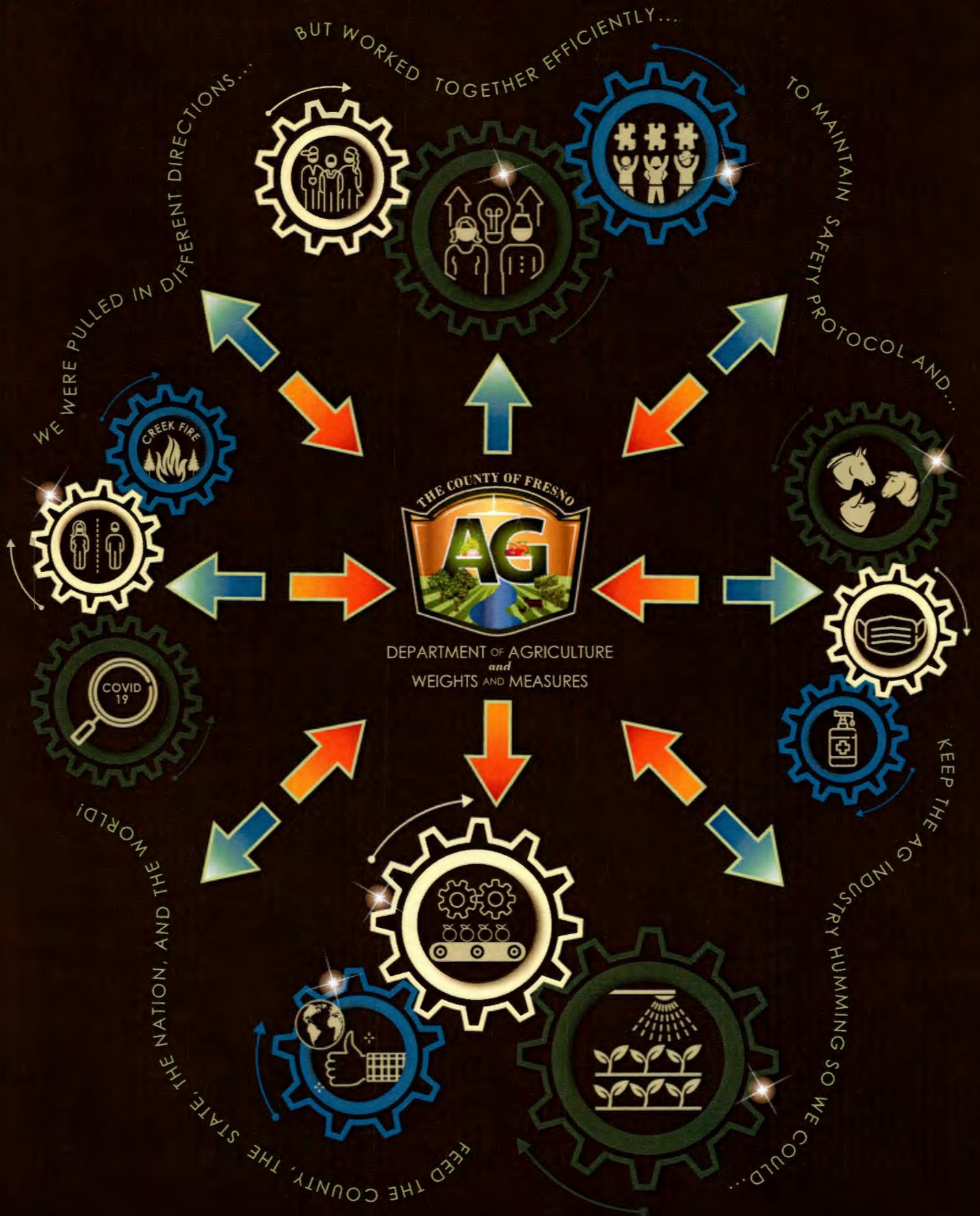


Table of Contents

	Page
Opening Letter	2
Top Ten Crops	3
Billion/Million Dollar Club	4
Total Value for 2020 Crops	5
Growth Over 20 Years	5
2020 Fresno County Exports	6
Essential Workers During Covid 19	7-8
Essential Workers During The Creek Fire	9-10
2020 Field Crops	12-13
2020 Seed Crops	13
2020 Vegetable Crops	14-16
2020 Fruit & Nut Crops	16-20
2020 Nursery Products	20
2020 Livestock & Poultry	21-22
2020 Apiary Products & Pollination	23
2020 Industrial Crops	23
2020 Sustainable Agriculture	24
Honoring Our Dear Soya	25
Thank You To All Who Contributed	Back Cover





COUNTY OF FRESNO
Department of Agriculture
Melissa Cregan
Agricultural Commissioner/
Sealer of Weights & Measures

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The County of Fresno
is an Equal Employment
Opportunity Employer

Karen Ross, Secretary
California Department of Food and Agriculture
and

The Honorable Board of Supervisors
County of Fresno

Steve Brandau, Chairman
Brian Pacheco Buddy Mendes
Sal Quintero Nathan Magsig
Jean M. Rousseau,
County Administrative Officer

It is my pleasure to submit the 2020 Fresno County Crop and Livestock Report. This report is prepared in accordance with Sections 2272 and 2279 of the California Food and Agriculture Code; and summarizes the acreage, production, and value of agricultural commodities produced in Fresno County. The figures contained herein represent gross returns to the producers and does not reflect actual net profit.

Fresno County's total gross production value for 2020 was \$7,979,650,000 This represents an increase of \$222,090,100 or 2.86% above the previous year's adjusted total of \$7,757,559,900.

Once again, almonds continue to be the leading agricultural commodity in Fresno County with a gross value of \$1,255,475,723 which represents 15.7% of the total gross value of all crops produced in 2020. The total gross value of grapes remained in the number two spot at \$1,046,356,645, followed by pistachios at \$761,967,964.

Fresno County's agricultural strength is based on the diversity of crops produced. Included in the 2020 report are over 300 different commodities, 80 of which have a gross value in excess of \$1,000,000. Although individual commodities may experience difficulties from year-to-year, Fresno County continues to supply the highest quality of food and fiber nationwide and abroad to more than 101 countries around the world.

This edition will feature the work that was done by the Agriculture Industry to protect essential workers during the COVID-19 pandemic. We also highlight the work of our department to support those impacted by the Creek Fire and share the untimely passing of our USDA Detection Dog, Soya.

This report is our yearly opportunity to recognize the growers, shippers, ranchers, and other businesses instrumental to and supportive of agriculture in Fresno County. I would like to extend my thanks and appreciation to industry for their continuous efforts in providing the vital information that enables the compilation of this report. Thank you to all my staff, especially Angel Gibson for compiling and analyzing the data; Scotti Walker, Victoria Araujo and Shoua VangXiong for data collection and entry; Amanda Zito and Samantha Tomlinson for the features and export data; and Gina Hill with the County of Fresno Internal Services Department for the graphic design. Without their hard work and valuable input, this report would not be possible.

Respectfully submitted,

Melissa Cregan
Agricultural Commissioner/Sealer of Weights and Measures

Continuing to Feed the Nation and the World



RANK		2020 TOTAL VALUE	2019 RANK
1	ALMONDS	\$ 1,255,475,723	1
2	GRAPES	\$ 1,046,356,645	2
3	PISTACHIOS	\$ 761,967,964	3
4	POULTRY*	\$ 573,959,000	4
5	MILK	\$ 464,561,000	5
6	CATTLE	\$ 417,551,000	7
7	GARLIC	\$ 398,566,000	6
8	TOMATOES	\$ 381,349,013	8
9	ORANGES	\$ 305,204,000	10
10	PEACHES	\$ 264,139,238	11

Includes commodity totals reported in the "Other" categories such as organic, by-products, processed etc.

* Includes Turkeys, Chickens, Ducks, Geese, Gamebirds & Eggs



BILLION/MILLION DOLLAR CLUB



1,255,475,723
BILLION
ALMONDS



1,046,356,645
BILLION
GRAPES



761,967,964
MILLION
PISTACHIOS

500+
MILLION
POULTRY
(including Eggs)

400+
MILLION
MILK
CATTLE

300+
MILLION
GARLIC
TOMATOES
ORANGES

200+
MILLION
PEACHES
MANDARINS

100+
MILLION
PLUMS
NECTARINES
APIARY
POLLINATION & PRODUCTS
ONIONS
COTTON

BY THE MILLION

LEMONS	80	RANGELAND	14	CHILI PEPPER	2
CANTALOUPE	76	APRICOTS	12	RICE	2
CORN	71	SQUASH	12	PEAS	2
LETTUCE, HEAD	66	SWINE	10	YAMS	2
LETTUCE, LEAF	62	PARSLEY	10	CELERY	2
ALFALFA	62	GRAPEFRUIT	9	WINTER FORAGE	2
HONEYDEW MELON	47	MANURE	8	RYE	2
POMEGRANATE	47	TRITICALE	7	IRRIGATED PASTURE	2
CHERRIES	41	SINQUA	7	TIMBER	2
PEARS	40	BLACKBERRIES	6	NAPA CABBAGE	2
NURSERY COMMODITIES	39	CARROTS	5	BROCCOLI	2
WHEAT	35	BITTERMELON	5	OATS	2
WATERMELON	34	APPLES	5	SORGHUM	1
BLUEBERRIES	32	ASPARAGUS	5	SPINACH	1
WALNUT	27	TANGELO	4	CAULIFLOWER	1
MIXED MELONS	21	BARLEY	4	GAILON	1
EGGPLANT	19	OLIVES	3	FIGS	1
SHEEP (INCL. WOOL)	19	MORINGA	3	INDUSTRIAL COMMODITIES	1
BELL PEPPER	18	CUCUMBER	3	RADICCHIO	1
PLUOTS	16	BOK CHOY	3	CABBAGE	1
PERSIMMONS	16	KIWI	3		
BEANS	15	DAIKON	2		

THE BIG REVEAL

TOTAL VALUE FOR 2020 CROPS



DEPARTMENT OF AGRICULTURE
and
WEIGHTS AND MEASURES



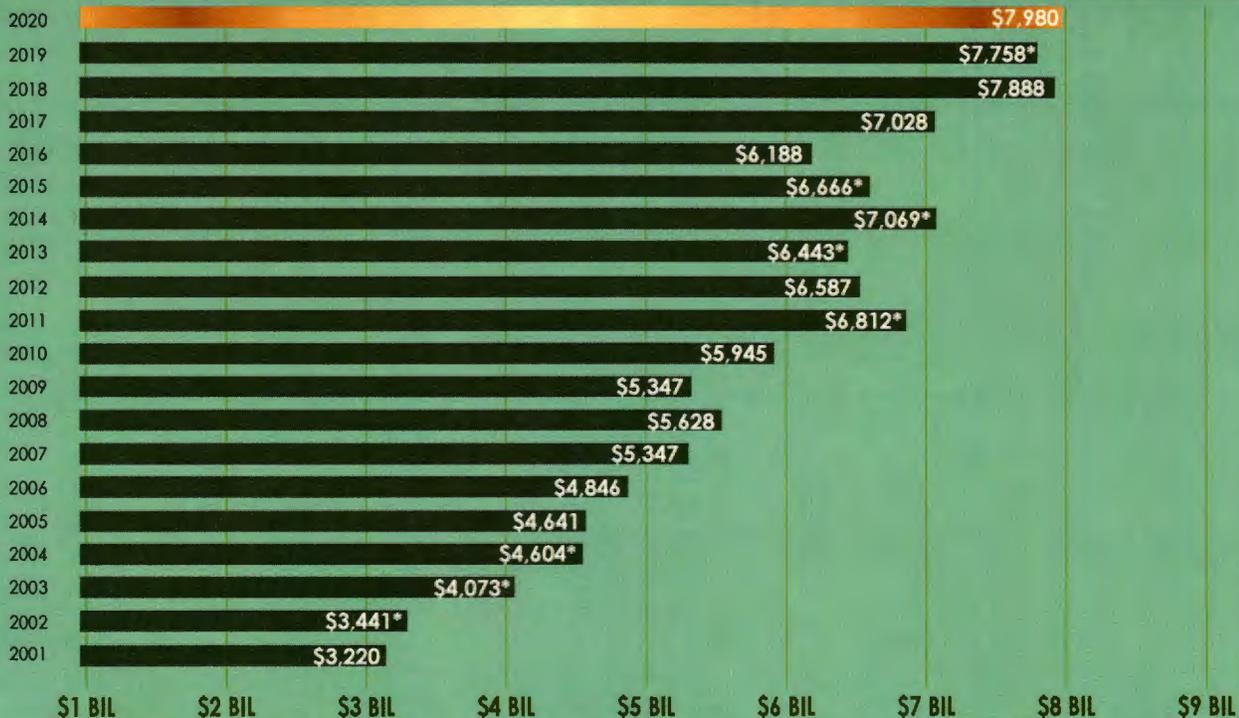
RELATIONSHIP IN TERMS OF TOTAL VALUE
FOR 2020 CROP YEAR

VEGETABLE	17.78%	NURSERY	0.49%
INDUSTRIAL	.04%	LIVESTOCK & POULTRY	12.81%
FIELD	3.76%	MILK	5.82%
SEED	0.11%	LIVESTOCK & POULTRY PRODUCTS	0.11%
FRUIT AND NUT	57.31%	APIARY	1.77%

\$7,979,650,000

**2001
THROUGH
2020**

GROWTH OVER 20 YEARS FOR FRESNO COUNTY AGRICULTURE



GROSS PRODUCTION IN VALUE (IN \$BILLIONS)

*REVISED

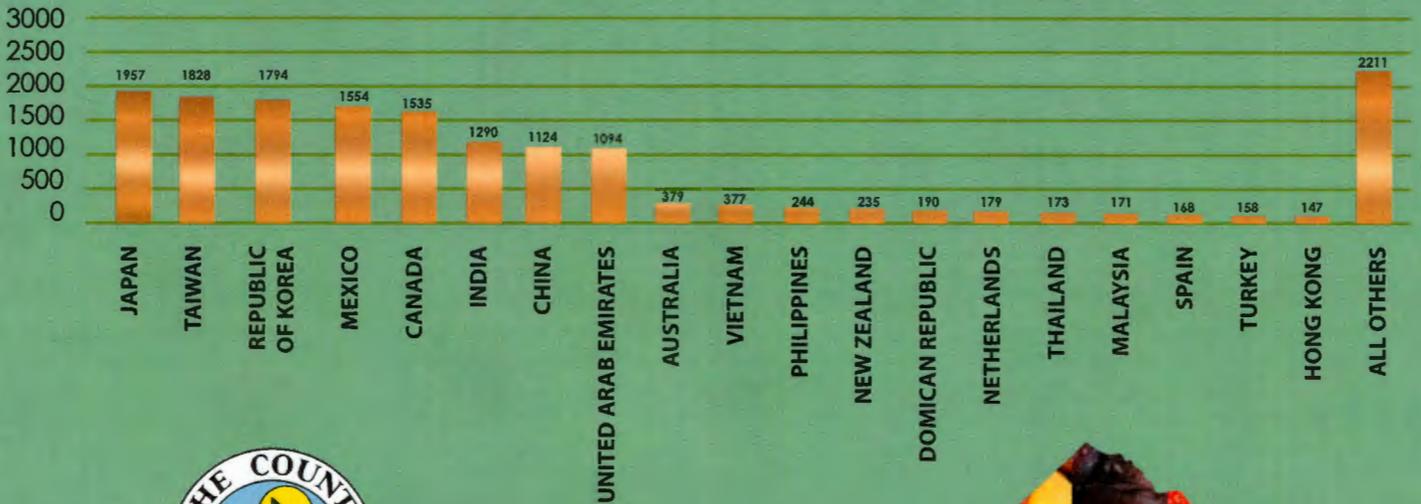


DEPARTMENT OF AGRICULTURE
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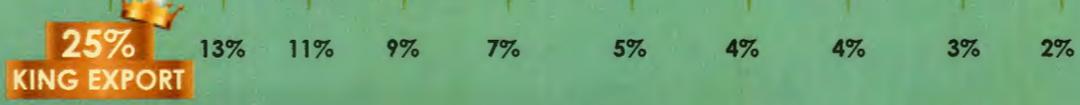
2020 FRESNO COUNTY EXPORTS



2020 TOP EXPORT COUNTRIES



In 2020, Fresno County Inspectors issued 16,808 Phytosanitary Certificates for 72 unique commodities destined for markets in 101 countries around the world. In addition, our inspectors walked and certified 1403.2 acres of alfalfa, lettuce, onion and radish grown for seed exports.



25%
KING EXPORT

ESSENTIAL WORKERS DURING COVID-19

Essential Agricultural Workers During COVID-19

2020 was a year unlike any other. While the COVID-19 pandemic caused closures of most business sectors around the world and sent millions of workers to navigate the challenges of working from home, those working in agriculture didn't stop to contemplate if their work was "essential". **These dedicated workers continued the work that brings food to the world's tables** despite the upheaval of supply chains and export markets. There is no ability to work from home for the vast majority of the **workers producing Fresno County's exceptional produce, grains, fiber, dairy, and meat.**

Safety has always been important in the agricultural sector; however, the pandemic required employers to adjust from protecting workers from the physical hazards of the workplace, to protecting workers from the unseen hazards of working near each other. This presented some unique challenges in the way our food is harvested and processed. As always, when presented with a challenge, our agriculture industry acted quickly to modify work areas and processes to keep food production rolling while following the evolving Center for Disease Control and Prevention (CDC) guidelines of mask wearing, sanitization, and social distancing.

Fresno County Department of Public Health Director David Pomaville quickly recognized that our essential agricultural industry would need guidance and coordination to navigate CDC, OSHA, and California's shelter in place orders. Director Pomaville **provided staff to act as liaisons to agricultural businesses that coordinated efforts between various government entities and community-based organizations to protect workers and keep agricultural businesses operating.**

To protect the safety of workers, the agricultural industry made modifications that included masking of all personnel at all times; increased facilities for hand washing and personal sanitization; and increased frequency of sanitization of workstations and other areas where workers congregate or frequent. Larger indoor facilities increased the filtering capacity of their air circulation and increased the volume of air circulated per minute. Smaller facilities and facilities with poor air circulation added portable circulation with HEPA filters. Modifications to create social distancing were made during harvesting, packing, and processing activities that included slowing down and/or spreading out



ESSENTIAL WORKERS DURING COVID-19



harvesting and packing lines. When appropriate distancing wasn't possible, facilities added dividers of plexiglass and thick plastic curtains. Shift start and end times were staggered and remote time keeping was employed to limit the workers in any one area at a time. **Lunch and break room facilities were modified to create extra spacing by removing seating and installing barriers when extra spacing wasn't feasible.** Many employers created outdoor spaces for employee lunches and breaks. Employees were given information about how to protect themselves at work, but also how to protect themselves and their family at home. Our **farmers markets and swap meets instituted masking, sanitization stations, and social distancing protocols to keep workers and customers safe.** This is only a representative sample of the many varied strategies employed by the industry to keep their workers safe and healthy.

To support the agriculture industry in their drive to operate through the constant "moving targets" of CDC requirements, the Fresno County Department of Agriculture teamed up with the California Department of Food and Agriculture and the Governor's Office of Emergency Services to **provide over 2,000,000 disposable masks, 615,000 cloth masks, and 163,000 bottles of hand sanitizer to agricultural workers** in Fresno County. In order to distribute these supplies, we partnered with over twenty different agricultural and community-based organizations including the Fresno County Farm Bureau, Nisei Farmers League, United Way of Fresno and Madera Counties, and PROTEUS Inc. Due to supply shortages, agricultural employers were unable to purchase N95 respirators required for use during some pesticide applications and to protect workers during periods of unhealthy air quality caused by wildfires. Again, through our partnership with CDFA and CalOES, we were **able to secure over 1,000,000 N95 respirators** to distribute to agricultural employers to assist them in protecting workers. The orderly distribution of these respirators was only possible through the help of our agricultural organizations. We want to thank the Fresno County Farm Bureau, Nisei Farmers League, California armworker Foundation, California Fresh Fruit Association, Citrus Mutual, Western Agricultural Processors Association, and the California Cotton Ginners and Growers Association. Without their help, the distribution of these supplies would not have been possible. **The way the agricultural industry stepped up was a testament to how this community supports each other and stands tall in the face of adversity, whether that adversity be weather, drought, natural disasters, or a global pandemic.**

Those working in agriculture didn't stop to contemplate if their work was "essential".



We sincerely salute all of the essential agricultural workers; the farm labor contractors and field laborers, truck drivers, agricultural packers/shippers, pest control and fertilizer companies, agricultural suppliers, our growers, and all of our industry partners and agencies. We are humbled by the drive, commitment, and resolve of everyone in our agricultural community.



CREEK FIRE

Fresno County Department of Agriculture's Disaster Response Role

In 2020, not only did Fresno County see the impacts of the global COVID-19 pandemic, but we had a very different battle to fight at the same time. Drought conditions throughout California, and other factors, caused severe tree die-off and accumulation of dry undergrowth in our foothill and mountain areas. These combined factors turned the Sierras and much of the state into a tinder box, and many officials warned that **huge forest fires were a very real threat.**

On September 4, 2020, Fresno County saw the start of the Creek Fire which turned out to be California's largest single-fire event in documented history. By the time the Creek Fire was declared 100% contained on December 24, 2020, **it had burned an unprecedented 379,895 acres of our beautiful Sierra Nevadas.** The effects of this disastrous fire will be seen and felt for decades.

What many people do not know is that each department within the public agencies of Fresno County has a specific role to play during disasters such as these. Our role at the Fresno County Department of Agriculture is to provide shelter and care of evacuated livestock and to feed, water, and to check on the welfare of livestock under the Shelter in Place program. Once mandatory evacuation orders came to our foothill and mountain communities, Fresno County provided residents a place to shelter their livestock at the Fresno Fairgrounds until they were cleared for return. All of this is done at no charge to the evacuees. Agricultural Commissioner and Sealer Melissa Cregan called our staff to action during the evening hours of Labor Day, September 7, 2020. **We reported immediately to the Fresno Fairgrounds and prepared to receive evacuated livestock. We had horses, ponies, cattle, goats, sheep, hogs, chickens, geese, guinea pigs, and over 400 rabbits.** For the evacuated livestock, our staff was responsible for intake and release, shelter, feeding, walking, mucking of stalls, and cleaning cages and buildings. **Our staff went behind the evacuation line to feed and**





ESSENTIAL WORKERS CREEK FIRE

We had a different battle to fight — with the largest single-fire event in CA history.

water animals unable to evacuate and had no option but to shelter in place. The incredible staff of the Fresno Fairgrounds provided us with access to the fairground facilities, facility assistance, and accepted and cataloged the heartwarmingly generous feed and supply donations from our community. They gave us full access to their manpower, buildings and stalls, stocks of fencing, small livestock cages, feeding supplies, high powered fans, and whatever else they had available to keep our residents' livestock safe, comfortable, cool, and well fed.

The hardworking team at the **Fresno Fairgrounds** also provided **assistance to the Central California Animal Disaster Team, the Fresno Humane Society, and many community volunteers to house 670 dogs, cats, pet birds, pet rabbits, pet rats, and even a pet snake. Clovis Animal Services, Cat House on the Kings, and the Animal Compassion Team assisted with housing additional small animals.** These agencies also cared for hundreds more small animals within evacuated zones under the Shelter in Place program. We want to give a **HUGE thank you to everyone involved** in making this disaster response as seamless as it possibly could have been.

We also want to give a special acknowledgement to our local 4-H chapters that arrived to lend helping hands at a moment's notice wherever and whenever hands were needed. Within our ranks at the Fresno County Department of Agriculture, **we'd like to honor the hard work of our staff that spent many long days and nights caring for animals:** Commissioner Melissa Cregan, Assistant Commissioner Rusty Lantsberger, Deputies Mario Reeves and Mandy Zito, Supervisors Robin Rogers-Dale, Jennifer Fulbright, and Mike Konda, and Agricultural/Standards Specialists Cody Himes, Eric Rosedale, Tegan Turner, and Jeff Van Bergen.

You all went above and beyond!



Last, but never least, we want to thank our staff that assisted our efforts at the fairgrounds and our staff that took on extra workloads in their respective districts and divisions while their supervisors and coworkers were away. It was truly a team effort all around and we couldn't have done it without you.



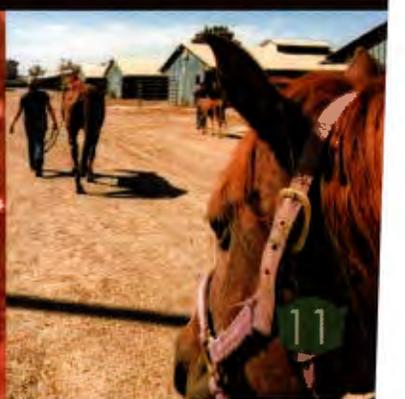
“AGRICULTURE *is the* **MOST...**
THROUGHOUT COVID-19



AND THE CREEK FIRE

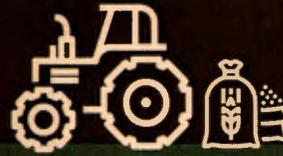
**HEALTHFUL, USEFUL *and* MOST
 NOBLE EMPLOYMENT *of* MAN”**

~George Washington



2020 CROP HIGHLIGHTS

FIELD CROPS



CROP	YEAR	PRODUCTION				VALUE		
		HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL	
 CORN								
	Silage	2020	27,970	19.70	551,000	ton	\$ 52.00 ^a	\$ 28,652,000
	2019	23,840	19.29	460,000	ton	\$ 53.00 ^a	\$ 24,380,000	
 COTTON								
	Upland Lint	2020	7,130	2,168.00 ^b	31,000 ^c	bale	\$.65 ^d	\$ 10,156,000
		2019	2,420	1,212.00 ^b	5,870 ^c	bale	\$ 0.87 ^d	\$ 2,574,000
	Seed	2020			9,920	ton	\$ 355.00	\$ 3,522,000
		2019			1,940	ton	\$ 325.00	\$ 631,000
	Pima Lint	2020	50,466	1,749.00 ^b	177,000 ^c	bale	\$ 1.12 ^d	\$ 99,913,000
		2019	77,160	1,536.00 ^b	237,000 ^c	bale	\$ 1.15 ^d	\$ 137,365,000
	Seed	2020			65,800	ton	\$ 361.00	\$ 23,754,000
		2019			92,000	ton	\$ 280.00	\$ 25,760,000
	COTTON TOTAL^e	2020	57,596					\$ 137,345,000
	2019	79,580					\$ 166,330,000	
 HAY								
	Alfalfa	2020	40,100	6.87	275,000	ton	\$ 209.00	\$ 57,475,000
		2019	27,100	6.31	171,000	ton	\$ 186.00	\$ 31,806,000
	Wheat	2020	22,450	3.89	87,300	ton	\$ 125.00	\$ 10,913,000
		2019	20,250	2.90	58,700	ton	\$ 150.00	\$ 8,805,000
	Other^f	2020	12,690	2.74	34,800	ton	\$ 126.00	\$ 4,385,000
2019		5,290	2.76	14,600	ton	\$ 144.00	\$ 2,102,000	



2020 CROP HIGHLIGHTS

FIELD CROPS



CROP	YEAR	HARVESTED ACREAGE	PRODUCTION			VALUE	
			PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
 WHEAT ^a Grain Silage	2020	29,790	2.49	74,200	ton	\$ 217.00	\$ 16,101,000
	2019	25,310	3.08	78,000	ton	\$ 230.00	\$ 17,940,000
	2020	10,720	17.45	187,000	ton	\$ 39.00	\$ 7,293,000
	2019	13,042	11.55	151,000	ton	\$ 51.00	\$ 7,701,000
 OTHER ^h	2020	880,660					\$ 37,797,000
	2019	884,330					\$ 44,319,000*
	2020	1,082,000					\$ 299,961,000
	2019	1,078,700					\$ 303,383,000*

- a Field price
- b Pounds of lint per acre
- c 500 pounds lint per bale
- d Price per pound, 504 pounds gross weight per bale
- e Does not include cotton seed for planting
- f Includes hay from: barley, oats, sudan grass and winter forage
- g Includes both organic and conventional
- h Includes alfalfa (silage & grain), barley (forage & grain), corn (grain), cotton by-products, field stubble, (includes acres not included in total field crop acreage), hops, irrigated pasture, oat (grain & silage), rangeland, rice (grain & bran), rye silage, safflower, sorghum (grain & silage), straw, triticale forage, winter forage. **ORGANIC:** corn silage
- * REVISED

2020 CROP HIGHLIGHTS

SEED CROPS



CROP	YEAR	HARVESTED ACREAGE	PRODUCTION			VALUE	
			PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
 ALFALFA Certified	2020	2,010	321	645,000	lb	\$ 3.62	\$ 2,335,000
	2019	3,080	459	1,414,000	lb	\$ 3.05	\$ 4,313,000
 VEGETABLE ^a	2020	1,560					\$ 4,417,000
	2019	1,880					\$ 11,507,000
 OTHER ^b	2020	3,210					\$ 2,060,000
	2019	1,720					\$ 2,216,000
TOTAL	2020	6,780					\$ 8,812,000
	2019	6,680					\$ 18,036,000

- a Lettuce (head & leaf), mizuna, onion and radish. **ORGANIC:** mizuna
- b Alfalfa non-certified, barley, triticale and wheat



2020 CROP HIGHLIGHTS

VEGETABLE CROPS



CROP	YEAR	PRODUCTION				VALUE	
		HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL



ASPARAGUS	2020	490	2.33	1,140	ton	\$ 3,789.00	\$ 4,319,000
	2019	813	3.05	2,480	ton	\$ 3,509.00	\$ 8,702,000



CORN, SWEET	2020	6,260	9.58	60,000	ton	\$ 688.00	\$ 41,280,000
	2019	6,690	8.21	54,900	ton	\$ 496.00	\$ 27,230,000



EGGPLANT ^a	2020	830	18.07	15,000	ton	\$ 1,316.00	\$ 19,740,000
	2019	890	11.72	10,400	ton	\$ 909.00	\$ 9,454,000



GARLIC Fresh/Processed	2020	24,660	7.20	178,000	ton	\$ 2,227.00	\$ 396,406,000
	2019	24,180	6.87	166,000	ton	\$ 2,201.00	\$ 365,366,000



HEAD LETTUCE	Naked			4,500	ton		
	Wrapped			37,300	ton		
	Bulk			5,500	ton		

SPRING SEASON TOTAL	2020	2,800	16.89	47,300	ton	\$ 432.00	\$ 20,434,000
	2019	3,100	18.10	56,100	ton	\$ 410.00	\$ 23,001,000
Naked				7,200	ton		
	Wrapped			37,100	ton		
		Bulk			18,800	ton	

FALL SEASON TOTAL	2020	3,230	19.54	63,100	ton	\$ 715.00	\$ 45,117,000
	2019	4,900	16.57	81,200	ton	\$ 500.00	\$ 40,600,000

HEAD LETTUCE	2020	6,030		110,400			\$ 65,551,000
TOTALS	2019	8,000		137,300			\$ 63,601,000



LETTUCE LEAF ^{b,c}	2020	3,880	11.88	46,100	ton	\$ 1,306.00	\$ 60,207,000
	2019	4,080	17.67	72,100	ton	\$ 1,350.00	\$ 97,335,000

2020 CROP HIGHLIGHTS

VEGETABLE CROPS



CROP	YEAR	PRODUCTION				VALUE		
		HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL	
MELONS								
Conventional & Organic								
	Cantaloupe ^{c,d}	2020	9,330	17.26	161,000	ton	\$ 477.00	\$ 76,797,000
		2019	9,470	20.70	196,000	ton	\$ 328.00	\$ 64,288,000
	Honeydew ^{c,d}	2020	5,910	17.09	101,000	ton	\$ 475.00	\$ 47,975,000
		2019	7,620	15.49	118,000	ton	\$ 474.00	\$ 55,932,000
	Mixed Melons ^c	2020	2,690	13.18	35,500	ton	\$ 595.00	\$ 21,123,000
		2019	2,320	12.97	30,100	ton	\$ 531.00	\$ 15,983,000
Watermelon ^c	2020	2,770	24.98	69,200	ton	\$ 499.00	\$ 34,531,000	
	2019	2,820	23.12	65,200	ton	\$ 881.00	\$ 57,441,000	
Melon Total	2020	20,700					\$ 180,426,000	
	2019	22,230					\$ 193,644,000	
ONIONS								
	Fresh/Processed	2020	16,660	19.00	317,000	ton	\$ 437.00	\$ 138,529,000
		2019	17,980	17.19	309,000	ton	\$ 575.00	\$ 177,675,000
	ORIENTAL VEGETABLES ^e	2020	1,415		22,100	ton		\$ 35,382,000
		2019	1,887		21,825	ton		\$ 25,747,000
	PEPPER, BELL ^d	2020	1,300	18.82	24,500	ton	\$ 765.00	\$ 18,743,000
		2019	1,720	20.81	35,800	ton	\$ 779.00	\$ 27,888,000
	SQUASH ^f	2020	1,050	12.95	13,600	ton	\$ 885.00	\$ 12,036,000
		2019	1,570	10.97	17,200	ton	\$ 859.00	\$ 14,775,000
TOMATOES								
	Standard & Cherry	2020	5,020	13.42	67,400	ton	\$1,232.00	\$ 83,037,000
		2019	5,350	24.59	132,000	ton	\$ 165.00	\$ 21,780,000
	Processed	2020	72,400	52.50	3,801,000	ton	\$ 75.00	\$ 285,075,000
		2019	74,800	52.10	3,897,000	ton	\$ 73.00	\$ 284,481,000
TOMATOES TOTAL	2020	77,240					\$ 368,112,000	
	2019	79,090					\$ 306,261,000	



2020 CROP HIGHLIGHTS

VEGETABLE CROPS



CROP	YEAR	HARVESTED ACREAGE	PRODUCTION			VALUE	
			PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
OTHER ^g	2020	16,100					\$ 77,908,000
	2019	14,540*					\$ 111,325,000*
TOTAL	2020	176,795					\$ 1,418,639,000
	2019	184,730					\$ 1,429,003,000

- a Includes assorted varieties
 - b Includes Red, Green, Butter, and Romaine varieties
 - c Includes organic and conventional
 - d Includes fresh and processed
 - e Includes a choy, amaranth, bamboo, bitter melon (fruit and leaf), bok choy, chayote (fruit and leaf), daikon, doan qua, gai choy, gailon, galangal, ginger (root & leaf), lambsquarter, lemon grass, lo bok, malabar, mizuna, methi, moqua, mora, moringa (fruit and leaf), nagaimo, napa cabbage, ong choy, opo, saluyote, sinqua, sour leaf, soybean, sugar cane, taro, tatsoi, tong ho, yam (root and leaves), yu choy and white leadtree
 - f Includes summer and winter varieties
 - g Includes arugula, artichoke, basil, beans (shell & snap), beets, broccoli, cabbage, carrot, casava (root & leaf), cauliflower, celery, chive, cilantro, culantro, corn (processed), cucumber, curry leaf tree, dandelion green, dill, fennel, gourds, jicama, kale, kohlrabi, leeks, marjoram, mint, mustard, nettle, okra, green onion, oregano, parsley, parsnip, peanut, peas (pod & leaf), pennywort, chili pepper, potato, pumpkin, purslane, radicchio, radish, rapini, rosemary, rutabaga, sage, savory, shallot, spinach, sunchoke, swiss chard, tarragon, thyme, tinda, tindora, tomatillo, tumeric, turnip, watercress;
- ORGANIC:** asparagus, corn, sweet garlic, onion, peas, spinach, tomato processed

* REVISED

2020 CROP HIGHLIGHTS

FRUIT AND NUT CROPS



CROP	YEAR	HARVESTED ACREAGE	PRODUCTION			VALUE	
			PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
ALMONDS ^a	2020	274,673	1.24	341,000	ton	\$3,512.00	\$1,197,592,000
	2019	264,123	1.17	309,000	ton	\$4,930.00	\$1,523,370,000
ALMOND HULLS	2020			563,000	ton	\$ 93.00	\$ 52,359,000
	2019			481,000	ton	\$ 105.00	\$ 50,505,000
ALMOND TOTAL	2020						\$1,249,951,000
	2019						\$1,573,875,000



APRICOTS ^a	2020	1,409	4.83	6,810	ton	\$1,731.00	\$ 11,788,000
	2019	1,324	6.93	9,180	ton	\$1,742.00	\$ 15,992,000



BLUEBERRIES ^a	2020	1,299	3.52	4,570	ton	\$6,363.00	\$ 29,079,000
	2019	1,524	4.00	6,100	ton	\$5,359.00	\$ 32,690,000



CHERRIES ^a	2020	4,756	2.04	9,700	ton	\$4,234.00	\$ 41,070,000
	2019	4,736	2.72	12,900	ton	\$2,716.00	\$ 35,036,000

2020 CROP HIGHLIGHTS

FRUIT AND NUT CROPS



CROP	YEAR	PRODUCTION				VALUE	
		HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
CITRUS							
 LEMONS	Fresh						
	2020	3,915	20.51	80,300	ton	\$ 990.00	\$ 79,497,000
	2019	3,229	16.83	54,300	ton	\$ 874.00	\$ 47,458,000
 ORANGES	NAVEL						
	2020	27,947	17.02				
	2019	29,439	14.50				
	Fresh						
	2020			421,000	ton	\$ 667.00	\$ 280,807,000
	2019			354,000	ton	\$ 567.00	\$ 200,718,000
	Processed						
	2020			54,300	ton	\$ 34.00	\$ 1,846,000
	2019			73,000	ton	\$ 53.00	\$ 3,869,000
	VALENCIA						
2020	2,507	10.82					
2019	2,522	17.01					
Fresh							
2020			32,000	ton	\$ 643.00	\$ 20,576,000	
2019			36,900	ton	\$ 711.00	\$ 26,236,000	
Processed							
2020			21,700	ton	\$ 91.00	\$ 1,975,000	
2019			6,000	ton	\$ 32.00	\$ 192,000	
ORANGE TOTAL	2020	30,454					\$ 305,204,000
	2019	31,961					\$ 231,015,000
 MANDARIN/ TANGERINE	2020	24,110	14.57	351,000	ton	\$ 748.00	\$ 262,548,000
	2019	23,249	7.57	176,000	ton	\$1,360.00	\$ 239,360,000
 CITRUS, OTHER^b	Fresh						
	2020	1,770	19.56	34,600	ton	\$ 433.00	\$ 14,982,000
	2019	1,910	17.85	34,100	ton	\$ 507.00	\$ 17,289,000
CITRUS TOTAL	2020	60,249					\$ 662,231,000
	2019	60,349					\$ 535,122,000



2020 CROP HIGHLIGHTS

FRUIT AND NUT CROPS



CROP	YEAR	PRODUCTION				VALUE		
		HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL	
GRAPES								
	RAISIN	2020	90,782	8.96				
	VARIETIES ^a	2019	102,816*	10.85*				
	Crushed	2020			69,000	ton	\$ 259.00	\$ 17,781,000
		2019			107,600	ton	\$ 253.00	\$ 27,223,000
	Dried	2020			157,000 ^c	ton	\$1,304.00	\$ 204,728,000
		2019			211,000 ^{c*}	ton	\$1,488.00	\$ 313,968,000*
	Fresh	2020			4,220	ton	\$1,575.00	\$ 6,647,000
		2019			14,400	ton	\$1,163.00	\$ 16,747,000
	Juice	2020			2,250	ton	\$1,056.00	\$ 2,376,000
		2019			2,025	ton	\$ 889.00	\$ 1,800,000
	TABLE	2020	31,570	10.99				
	VARIETIES ^a	2019	29,164	11.53				
	Crushed	2020			12,600	ton	\$ 172.00	\$ 2,167,000
		2019			13,900	ton	\$ 263.00	\$ 3,656,000
	Fresh	2020			347,000	ton	\$1,575.00	\$ 546,525,000
		2019			317,000	ton	\$1,296.00	\$ 410,832,000
	WINE	2020	56,853	12.13				
	VARIETIES ^a	2019	53,537	13.85				
	Crushed	2020			653,000	ton	\$ 314.00	\$ 205,042,000
		2019			699,000	ton	\$ 317.00	\$ 209,700,000
	Juice	2020			36,600	ton	\$1,225.00	\$ 44,835,000
		2019			41,000	ton	\$1,087.00	\$ 44,600,000
GRAPE TOTAL	2020	179,205					\$ 1,030,101,000	
	2019	185,517*					\$ 1,030,211,000*	



2020 CROP HIGHLIGHTS

FRUIT AND NUT CROPS



CROP	YEAR	PRODUCTION			VALUE			
		HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL	
 NECTARINES ^a	2020	10,481	9.54	100,000	ton	\$1,579.00	\$ 157,900,000	
	2019	9,985	10.12	101,000	ton	\$1,260.00	\$ 127,260,000	
 PEACHES ^a	Cling (processed) ^a	2020	1,868	15.69	29,300	ton	\$ 476.00	\$ 13,947,000
		2019	1,915	20.57	39,400	ton	\$ 485.00	\$ 19,109,000
	Freestone (fresh) ^a	2020	15,557	10.42	162,000	ton	\$1,488.00	\$ 241,056,000
		2019	15,970	9.45	151,000	ton	\$1,158.00	\$ 174,858,000
PEACHES TOTAL	2020	17,425					\$ 255,003,000	
	2019	17,885					\$ 193,967,000	
 PEARS, ALL ^a	2020	751	16.78	12,600	ton	\$3,203.00	\$ 40,358,000	
	2019	722	15.79	11,400	ton	\$1,253.00	\$ 14,284,000	
 PERSIMMONS ^a	2020	1,047	9.74	10,200	ton	\$1,571.00	\$ 16,024,000	
	2019	1,033	7.48	7,730	ton	\$ 862.00	\$ 6,663,000	
 PISTACHIOS ^a	2020	123,007	1.43	176,000	ton	\$4,027.00	\$ 708,752,000	
	2019	117,519	1.36	160,000	ton	\$4,129.00	\$ 660,640,000	
 PLUMS ^a	2020	10,194	8.21	83,700	ton	\$ 1,890.00	\$ 158,193,000	
	2019	10,886	8.76	95,400	ton	\$ 1,186.00	\$ 113,144,000	
 PLUMS, DRIED	2020	1,353	1.35	1,830	ton	\$1,798.00	\$ 3,290,000	
	2019	1,220	4.83	5,890	ton	\$2,101.00	\$ 12,375,000	
 PLUOTS ^d	2020	1,256	8.16	10,300	ton	\$1,622.00	\$ 16,707,000	
	2019	1,396	10.53	14,700	ton	\$1,418.00	\$ 20,845,000	



2020 CROP HIGHLIGHTS

FRUIT AND NUT CROPS



CROP	YEAR	PRODUCTION				VALUE	
		HARVESTED ACREAGE	PER ACRE	TOTAL	UNIT	PER UNIT	TOTAL
 POMEGRANATES ^a	2020	4,420	12.15	53,700	ton	\$ 885.00	\$ 47,525,000
	2019	4,536	6.37	28,900	ton	\$ 782.00	\$ 22,600,000
 WALNUTS ^a	2020	10,829	1.84	19,900		\$1,338.00	\$ 26,626,000
	2019	10,056	1.88	18,900		\$2,044.00	\$ 38,632,000
 OTHER ^e	2020	13,900					\$ 118,401,000
	2019	8,480					\$ 66,249,000
TOTAL	2020	716,254					\$ 4,572,999,000
	2019	701,291*					\$4,499,585,000*

- a Additional acreage that is included in other fruit and nut crops: 104 apricots (dried), 277 acres peaches freestone (processed), 71 peaches cling (fresh); **ORGANIC**: 335 acres almonds, 27 acres apricots, 100 acres blueberries, 2 acres cherries, 2,963 raisin grapes (dried), 130 acres table grapes (fresh), 19 wine grapes (crushed), 23 acres mandarins (fresh), 338 acres nectarines, 407 acres peaches freestone (fresh & processed), 22 acres persimmons, 3,570 acres pistachios, 108 acres plums (fresh), 97 acres pomegranates (fresh), 392 acres walnuts.
- b Includes citron, lime, grapefruit, pomelo and tangelo
- c Tonage is reported as dried tons
- d Includes pluot, plumcot or other interspecific varieties acres
- e Includes almonds (shells, inedibles), apples (fresh, processed), apricots (processed), avocado, blackberries, boysenberries, figs, grape (by-products), guava, jujubes, kiwi, kumquats, lemons (processed), loquat, mandarins (processed), mulberry, olives, peaches (freestone-processed and cling-fresh), pecans, quince and strawberries; **ORGANIC**: almonds, apples apricots, avocados, blueberries, cherries, grape raisin, grape table, grape wine, mandarins, nectarines, olives, peaches freestone (fresh, processed), persimmons, pistachios, plums, pomegranates, walnuts
- * REVISED

2020 CROP HIGHLIGHTS

NURSERY PRODUCTS



CROP	YEAR	QUANTITY	PER UNIT	VALUE
 HERBACEOUS ORNAMENTALS ^a	2020	1,229,000	b	\$ 7,088,000
	2019	870,000	b	\$ 4,121,000
 ORNAMENTAL TREES	2020	923,000	plants	\$ 8,363,000
	2019	6,104,000	plants	\$ 12,863,000
 OTHER ^c	2020	344,162,000	units	\$ 23,750,000
	2019	243,866,000	units	\$ 22,893,000
TOTAL	2020			\$ 39,201,000
	2019			\$ 39,877,000

- a Includes aquatic plants, potted plants, bedding plants, decorative plants, flats, annuals, succulents, perennials and grasses
- b Includes flats, dozens, cans, seedlings and single plants and trees
- c Includes bareroot fruit trees, Christmas trees, citrus (budwood and trees), grape (rootings and cuttings), trees-restoration stock (seedlings), turf (in square feet), and vegetable transplants

2020 CROP HIGHLIGHTS

LIVESTOCK AND POULTRY



ITEM	YEAR	NO. OF HEAD	PRODUCTION		VALUE		
			TOTAL LIVEWEIGHT	UNIT	PER UNIT	TOTAL	
CATTLE AND CALVES							
BEEF							
	Breeding Stock						
	Common	2020	1,270		head	\$ 1,927.00	\$ 2,447,000
		2019	1,200		head	\$ 1,876.00	\$ 2,251,000
	Registered						
		2020	320		head	\$ 5,269.00	\$ 1,686,000
		2019	300		head	\$ 4,450.00	\$ 1,335,000
	Feeders						
		2020	28,200	163,000	cwt	\$ 125.00	\$ 20,375,000
		2019	26,700	138,000	cwt	\$ 125.00	\$ 17,250,000
Calves							
	2020	28,200	84,500	cwt	\$ 163.07	\$ 13,779,000	
	2019	26,700	80,000	cwt	\$ 147.23	\$ 11,778,000	
Slaughter Stock							
	2020	340,000	1,629,000 ^a	cwt	\$ 119.33	\$ 194,389,000	
	2019	258,000	1,199,000 ^a	cwt	\$ 117.01	\$ 140,300,000	



DAIRY						
Breeding Stock						
	2020	99,800		head	\$ 1,295.00	\$ 129,241,000
	2019	99,100		head	\$ 1,206.00	\$ 119,515,000
Feeders						
	2020	51,500	317,000	cwt	\$ 70.43	\$ 22,326,000
	2019	51,500	290,000	cwt	\$ 70.43	\$ 20,425,000
Calves						
	2020	55,700	167,000	cwt	\$ 62.10	\$ 10,371,000
	2019	55,700	167,000	cwt	\$ 78.20	\$ 13,059,000
Cull Stock						
	2020	29,800	387,000	cwt	\$ 59.27	\$ 22,937,000
	2019	29,800	387,000	cwt	\$ 59.77	\$ 21,131,000

CATTLE AND CALVES	2020	\$ 417,551,000
TOTAL	2019	\$ 349,044,000



2020 CROP HIGHLIGHTS

LIVESTOCK AND POULTRY



ITEM	YEAR	NO. OF HEAD	PRODUCTION		VALUE	
			TOTAL LIVEWEIGHT	UNIT	PER UNIT	TOTAL
HOGS AND PIGS						
 Market Pigs & Slaughter Stock	2020	43,595	109,000	cwt	\$ 100.44	\$ 10,948,000
	2019	41,370	103,000	cwt	\$ 87.14	\$ 8,975,000
SHEEP AND LAMBS						
 Slaughter Stock						
Lambs	2020	71,000	91,000	cwt	\$ 190.00	\$ 17,290,000
	2019	68,500	87,700	cwt	\$ 190.00	\$ 16,663,000
Sheep	2020	8,320	13,300	cwt	\$ 100.00	\$ 1,330,000
	2019	8,030	12,900	cwt	\$ 96.00	\$ 1,238,000
POULTRY AND MISC. OTHER^b						
	2020					\$ 574,899,000
	2019					\$ 504,951,000
TOTAL	2020					\$ 1,022,018,000
	2019					\$ 880,871,000

a Net gain

b Includes chickens, ducks, fish, gamebirds (guinea hen, pheasant, pigeon and quail); geese, goats, insects (beneficial); and turkeys

2020 CROP HIGHLIGHTS

LIVESTOCK AND POULTRY PRODUCTS



CROP	YEAR	PRODUCTION	UNIT	VALUE	
				PER UNIT	TOTAL
 MANURE^a	2020	1,905,000	ton	4.30	\$ 8,192,000
	2019	1,834,000	ton	4.55	\$ 8,345,000
 MILK^b	2020	24,541,000	cwt	18.93	\$ 464,561,000
	2019	24,113,000	cwt	16.76	\$ 404,134,000
 OTHER^c	2020				\$ 519,000
	2019				\$ 19,337,000
TOTAL	2020				\$ 473,272,000
	2019				\$ 431,816,000

a Includes cow and poultry manure

b Includes cow milk (conventional and organic) and goat milk

c Includes wool



2020 CROP HIGHLIGHTS

APIARY PRODUCTS AND POLLINATION SERVICES



ITEM	YEAR	PRODUCTION TOTAL	UNIT	VALUE	
				PER UNIT	TOTAL
APIARY PRODUCTS					
 Honey	2020	7,129,000	lb	\$ 2.33	\$ 16,611,000
	2019	7,509,000	lb	\$ 5.16	\$ 38,746,000
Beeswax	2020	457,000	lb	\$ 3.50	\$ 1,600,000
	2019	165,000	lb	\$ 3.07	\$ 507,000
POLLINATION ^a					
 Seed ^b	2020				\$ 1,176,000
	2019				\$ 650,000
 Trees, Fruit and Nut ^c	2020				\$ 119,612,000
	2019				\$ 107,371,000
Melon ^d	2020				\$ 2,268,000
	2019				\$ 1,741,000
Vegetable ^e	2020				\$ 238,000
	2019				\$ 420,000
TOTAL	2020				\$ 141,505,000
	2019				\$ 149,435,000

a Reflects value of pollination by all bee colonies located in Fresno County for pollination services during 2020

b Alfalfa, lettuce, onion and miscellaneous vegetable crops

c Almond, apple, blackberry, blueberry, cherry, kiwifruit, pear, plum, pluot, pomegranate and prune

d Cantaloupe, honeydew, watermelons and mixed melons

e Bell pepper, coriander (cilantro), cucumber, chili pepper, pumpkin, and squash

2020 CROP HIGHLIGHTS

INDUSTRIAL CROPS



CROP	YEAR	PRODUCTION	UNIT	VALUE
 TIMBER ^a	2020	45,732,000	board feet	\$ 2,092,000
	2019	40,119,000	board feet	\$ 1,396,000
 OTHER ^b	2020			\$ 1,151,000
	2019			\$ 4,157,900
TOTAL	2020			\$ 3,243,000
	2019			\$ 5,553,900

a Includes government and non-government properties

b Includes, biomass, compost, ground cover, mulch, poles, pomace and wood fines and firewood



2020 CROP HIGHLIGHTS

SUSTAINABLE AGRICULTURE



2020 BIOLOGICAL CONTROL ACTIVITIES

PEST

B.C. AGENT/MECHANISM

ACTIVITY

Glassy-winged sharpshooter,
Homalodisca vitripennis

- *Cosmocomoidea ashmeadi*
- *Cosmocomoidea morgani*
- *Cosmocomoidea morilli*
- *Ufens* spp.

CDFA released parasitoids species and monitored for evidence of GWSS egg parasitism



2020 DETECTION ACTIVITIES

TRAPS DEPLOYED

INSECT

RESULTS

European Grapevine Moth,
Lobesia botrana



6,325

0

Glassy-winged sharpshooter,
Homalodisca vitripennis

3,342

Multiple residential/commercial captures (properties treated)

Asian citrus psyllid,
Diaphorina citri

3,120

0

Light brown apple moth,
Epiphyas postvittana

706

0

Mediterranean fruit fly,
Ceratitis capitata

708

0

Gypsy moth,
Lymantria dispar

534

0

Oriental fruit fly,
Bactrocera dorsalis

707

0

Melon fruit fly,
Bactrocera cucurbitae

370

0

Japanese beetle,
Popillia japonica

357

0

Apple maggot,
Rhagoletis pomonella

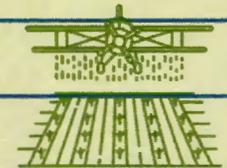
16

0

Western cherry fruit fly,
Rhagoletis indifferens

37

0



2020 BIOLOGICAL CONTROL ACTIVITIES

ACTIVITY

PEST

RESULTS

Glassy-winged sharpshooter

4,025 - Bulk Citrus Inspections

0 Finds

2020 PEST ERADICATION / MANAGEMENT ACTIVITIES

ERADICATION

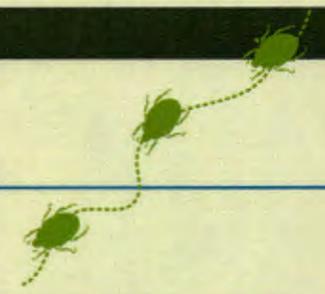
Pink Bollworm

34,500 cotton acres
0 Plowdown non-compliance

MANAGEMENT

Glassy-winged sharpshooter

3,166 properties treated



Fresno County
Department of Agriculture
USDA Detection Dog Soya

November 2012
THRU
August 23, 2021



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It is with very heavy hearts that we acknowledge the unexpected passing of our USDA Detection Dog Soya. Soya was a Labrador Retriever mix who was a rescue dog from Etowah Valley Humane Society in Cartersville, GA. She was acquired in March of 2015 at the estimated age of two years old by trainers at the USDA's National Detector Dog Training Center in Newnan, GA. In July of 2015, Soya partnered with Fresno County Department of Agriculture K9 Handler Samantha Tomlinson. Together they aided in protecting the agricultural industry of California and Fresno County by conducting inspections to find exotic pests on shipped plant material at terminal/parcel facilities. Samantha and Soya worked as a detection team for just over six years until Soya's untimely passing in the early morning hours of Monday, August 23, 2021.

Soya had many significant finds over her career, the most recent of which included two large boxes containing bare root trees of *Prunus* spp. illegally imported from China. This find led to a local farm, which had illegally imported potted trees and vines (49 loquat trees, 266 grapevines, and 243 *Prunus* spp.) from China. All of the illegally imported plants were destroyed. Soya recently alerted on a parcel containing non-native, venomous, live snakes. That find resulted in a joint operation with the Department of Fish and Wildlife to identify both the shipper and receivers of the illegal reptiles. The illegal reptiles were taken in by the Fresno Chaffee Zoo.

In addition to her detection duties, Soya and Samantha also made many public appearances to help teach the Central Valley's youth about California agriculture and why it is so important to protect it. When Soya wasn't working, she enjoyed visiting with her coworkers here at the Department, taking walks with Samantha, getting every squeak she could out of her numerous toys, and keeping a vigilant lookout for pesky squirrels. Soya brought her friendly demeanor and happy girl smile with her everywhere she went, and we have the utmost gratitude for all of her diligent work.



Great finds Soya!

WE THANK YOU FOR YOUR SERVICE!

*Good Girl...
Job well done!
We will miss you, dear Soya!*



Hard Working



Trustworthy



Loyal & True





DEPARTMENT OF AGRICULTURE
and
WEIGHTS AND MEASURES



TO ALL ESSENTIAL AGRICULTURAL WORKERS WHO WERE
On Call • On Duty • Operating in the Workplace Safely

We at the Fresno County Department of Agriculture
want to extend a big, heartfelt

Thank You!

To you and all of our growers, associated industries, and
especially to those that responded to our Crop Report survey.

THE 2020 CROP REPORT WOULD NOT BE POSSIBLE
WITHOUT ALL OF YOUR HARD WORK
and THE DATA YOU KINDLY SHARE.

We Thank You Again!