



MERCED
COUNTY
DEPARTMENT OF AGRICULTURE

2022 ————— **MERCED COUNTY**
REPORT ON **Agriculture**



Contents

- 1 COMMISSIONER'S LETTER
- 2 TOP FIFTEEN COMMODITIES
- 3 FRUIT & NUT CROPS
- 4 COMMODITY VALUE CROP COMPARISON
 - 30-Year Totals Comparison
- 5 VEGETABLE CROPS
- 5 LIVESTOCK & POULTRY PRODUCTS
- 5 LIVESTOCK & POULTRY PRODUCTION
- 6 FIELD CROPS
- 6 NURSERY PRODUCTS
- 7 SEED CROPS
- 7 BEE INDUSTRY
- 7 OTHER AGRICULTURE
- 8 COUNTRIES & PRODUCTS OF EXPORT
 - By Rank
 - By # Phytos
 - By Country
 - Products of Export

- 11 RAINFALL MERCED COUNTY 1971–2021
- 12 AGRICULTURAL COMMISSIONER PROGRAMS

- Pest Exclusion
- Pest Detection
- Industrial Hemp
- Apiary Inspections
- Fruits, Nuts & Vegetables Standardization
- Pest Eradication
- Pest Management
- Pesticide Use Enforcement
- Crop Statistics
- Seed Certification
- Nursery Inspection

- 13 PEST EXCLUSION & DETECTION PROGRAMS
 - Pest Exclusion Program
 - Pest Detection Program
 - Pierce's Disease Control Program
 - Federal Phytosanitary Certification Program

- 13 PEST ERADICATION
- 14 THE DIVISION OF WEIGHTS & MEASURES
 - Selected Weights & Measures Device Inspections
- 15 ORGANIC FARMING 
- 15 CERTIFIED PRODUCERS
- 16 DEDICATION
- 17 STAFF





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EQUAL OPPORTUNITY EMPLOYER

Karen Ross, Secretary
California Department of Food and Agriculture
and

The Honorable Board of Supervisors, County of Merced,
Scott M. Silveira, Chairman
Daron McDaniel Josh Pedrozo
Lloyd Pareira, Jr. Rodrigo Espinosa
Raul Lomeli Mendez, County Executive Officer

In accordance with Sections 2272 and 2279 of the California Food and Agricultural Code, I am pleased and honored to submit the 2022 Merced County Report of Agriculture. This report summarizes the acreage, production, and gross value of Merced County's agricultural commodities.

Merced County agricultural commodities grossed \$4,562,155,000 in 2022. This represents an increase of \$841,447,000 or 23% from the 2021 total value of \$3,720,708,000. These figures represent gross returns to the producer and do not take into account the costs of production, marketing, or transportation. Net income or loss to the producer is not reflected in this report.

Significant events of the 2022 crop year:

- With an overall gross value of \$1,500,840,000, milk continues to remain Merced County's number one leading commodity. Milk Market total had an increase of 37% in 2022. The price increased to \$26.40 CWT, up a significant amount from \$19.20 CWT from 2021.
- Almonds held steady as the second leading commodity with a gross production value of \$482,069,000, which is a minor decrease of 1% from 2021. Production per acre decreased 5% from 2021. The price of almonds has fallen to a 20-year low, due to continuing historic drought conditions, inflation pushing the cost of production and water supplies to an all-time high, and bottleneck at the ports.
- Chicken eggs moved up 5 spots to number eight in Merced County bringing in \$145,188,000 for the value total. Total production value increased by 109%. Industry saw prices increase to \$1.83 per dozen, an increase from \$1.13 per dozen in 2021, due to avian influenza outbreaks in other areas.
- Miscellaneous vegetables moved up 3 positions to number nine. There was a 45% increase in the total value. Growing a variety of specialty vegetables on the west side of Merced County includes commodities such as asparagus, basil, broccoli, carrots, cilantro, garlic, kale, onions, parsley, spearmint and squash. The total acreage was 10,799, an increase of 5,366 acres from 2021.
- Alfalfa hay has moved up three spots to number eleven. The total acreage decreased by 3,291, bringing the total to 41,148. The price per ton increased to \$347.52, bringing the total value to \$105,188,000, which is an increase of 54% from 2021. Price increase was due to high demand, but limited supply due to drastic drought conditions in 2022.

I wish to express my sincere thanks to our growers and ranchers, and industry representatives who assisted in providing the data for this report. I would like to give special thanks to my staff, especially Deputy Agricultural Commissioner Carrie Mitchell for all the dedication in compiling this report.

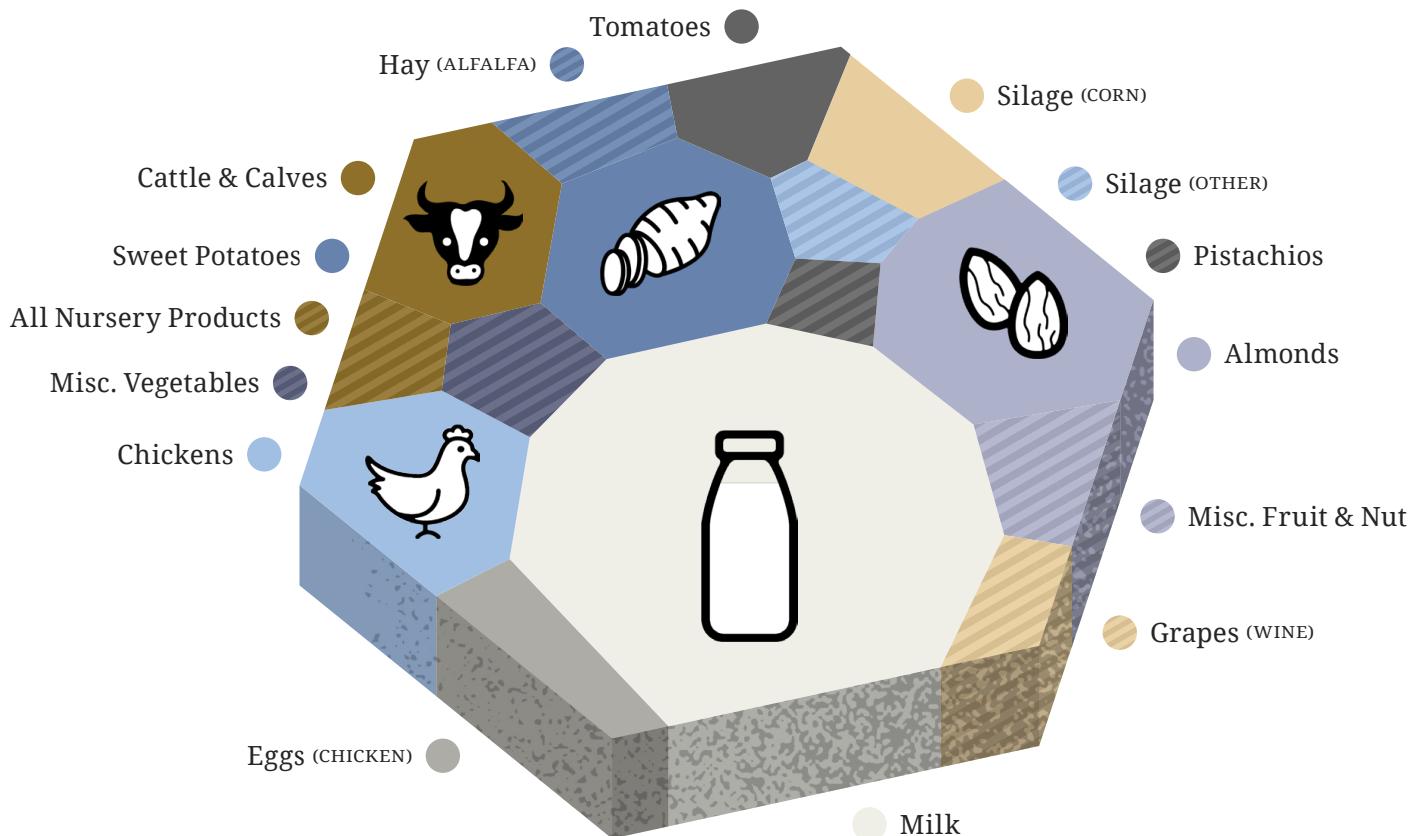
Respectfully submitted,

A handwritten signature in blue ink, appearing to read "S. Runyon".

Sean Runyon
Agricultural Commissioner / Sealer of Weights & Measures

TOP FIFTEEN COMMODITIES

RANK	SINCE 2021	CHANGE	COMMODITY	2022 VALUE	SHARE
1	—	37%	Milk	\$1,500,840,000	36.9%
2	—	-1%	Almonds	\$482,069,000	11.9%
3	▲	18%	Chickens	\$325,531,000	8.0%
4	▲	13%	Cattle & Calves	\$292,759,000	7.2%
5	▼▼	-23%	Sweet Potatoes	\$243,156,000	6.0%
6	▲	27%	Silage (CORN)	\$163,661,000	4.0%
7	▼	12%	Tomatoes	\$156,106,000	3.8%
8	▲▲▲▲	109%	Eggs (CHICKEN)	\$145,188,000	3.6%
9	▲▲▲	82%	Misc. Vegetables	\$140,758,000	3.5%
10	▲	80%	Misc. Fruit & Nut	\$139,804,000	3.4%
11	▲▲▲	54%	Hay (ALFALFA)	\$105,188,000	2.6%
12	NEW ▲▲▲▲	110%	Silage (OTHER)	\$99,984,000	2.5%
13	▼▼▼▼	-9%	All Nursery Products	\$97,338,000	2.4%
14	▼▼▼▼	16%	Grapes (WINE)	\$92,534,000	2.3%
15	▼▼▼▼	-1%	Pistachios	\$77,209,000	1.9%
TOTAL			\$4,062,125,000	100.0%	



Milk, the perennial favorite, and the other top five commodities all retain their ranks from last year, enjoying solid growth, except Almonds with a mere 1% slip.

The remaining commodities of the top fifteen have mostly shown increase in total production value, the greatest being Silage (OTHER) and Eggs (CHICKEN).

Nursery decreased by 9% compared to 2021. Sweet potatoes decreased 23% from 2021.

FRUIT & NUT CROPS

CROP	YEAR	ACRES HARVESTED	PRODUCTION PER ACRE	PRODUCTION TOTAL	PRODUCTION UNIT	VALUE PER UNIT	VALUE TOTAL
ALMONDS (HULLS)	2022	—	—	309,401	TON	\$252.26	\$78,051,000
	2021	—	—	244,523	TON	\$142.95	\$34,955,000
ALMONDS (KERNAL BASIS) ⁽¹⁾	2022	166,040	1.04	172,167	TON	\$2,800.00	\$482,069,000
	2021	120,680	1.10	132,748	TON	\$3,660.00	\$485,858,000
GRAPES (WINE)	2022	15,413	11.55	177,962	TON	\$519.96	\$92,534,000
	2021	13,551	11.63	157,598	TON	\$508.19	\$80,090,000
MISCELLANEOUS ⁽²⁾	2022	8,108	—	—	—	—	\$139,804,000
	2021	9,669	—	—	—	—	\$77,675,000
PEACHES (CLINGSTONE)	2022	1,193	15.09	18,003	TON	\$613.51	\$11,045,000
	2021	1,323	15.16	20,053	TON	\$522.54	\$10,479,000
PEACHES (FREESTONE)	2022	1,648	14.18	23,374	TON	\$565.68	\$13,223,000
	2021	1,572	17.71	27,835	TON	\$450.40	\$12,537,000
PISTACHIOS	2022	17,215	1.06	18,296	TON	\$4,220.00	\$77,209,000
	2021	16,415	1.05	17,262	TON	\$4,529.75	\$78,191,000
PLUMS (DRIED)	2022	1,329	3.33	4,431	TON	\$2,291.56	\$10,154,000
	2021	1,400	2.75	3,849	TON	\$1,985.45	\$7,643,000
WALNUTS (ENGLISH)	2022	8,878	1.18	10,471	TON	\$990.83	\$10,375,000
	2021	6,974	1.69	11,781	TON	\$1,783.88	\$21,016,000
2022 TOTALS		219,824					\$914,464,000
2021 TOTALS		171,584					\$808,444,000

(1) For 2021, acreage was taken from USDA NASS California Almond Acreage Report.

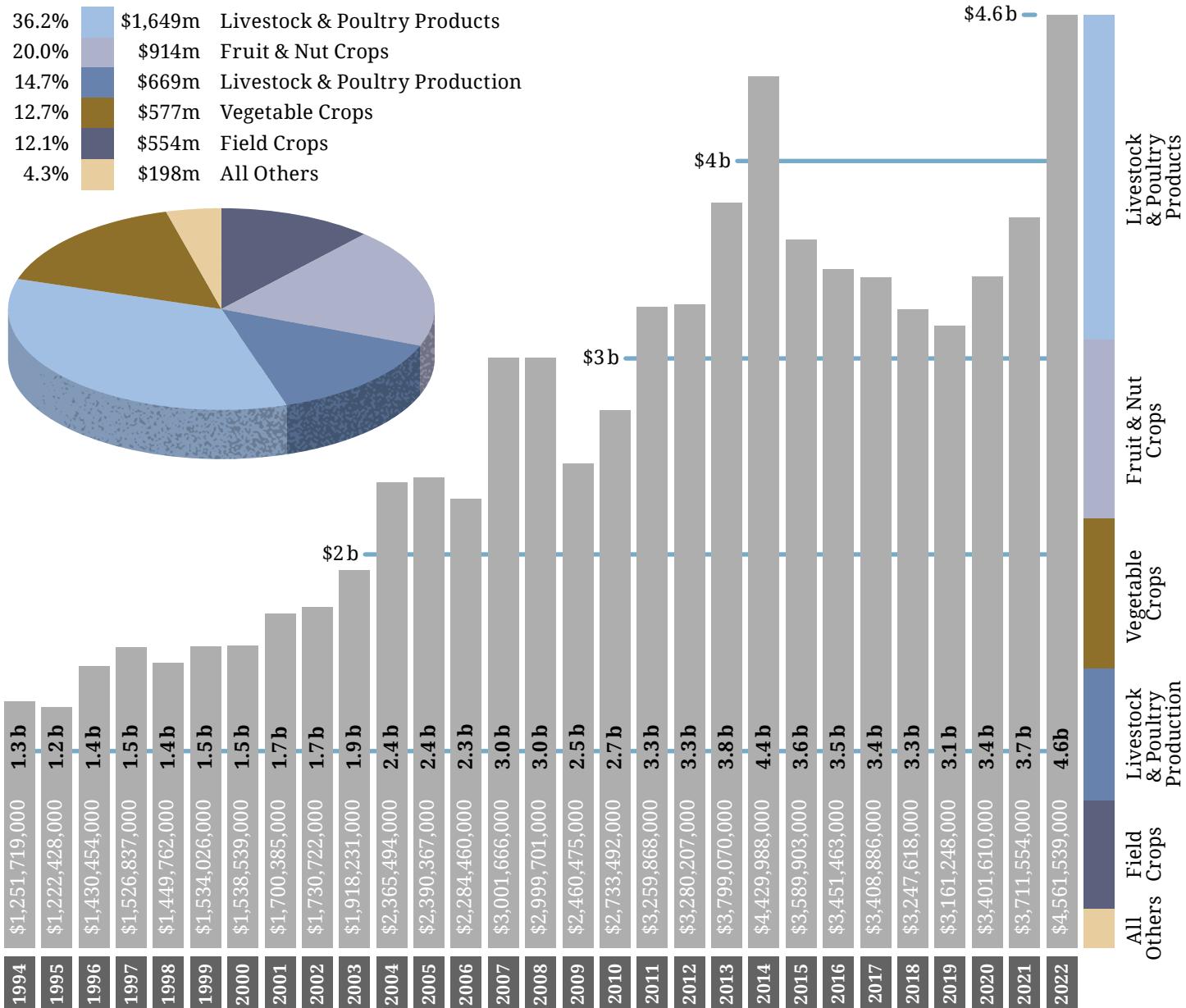
For 2022, acreage was captured from Merced County CalAgPermits program.

(2) For 2021: Included Apple, Apricot (Juice & Process), Blueberry, Cherry, Fig (Fresh), Grape (Raisin & Table), Nectarine, Olive, Olive (Oil), Organic Fruit & Nut, Pear (Asian), Pecan, Persimmon, Plum, Plum, Pomegranate & Strawberry.

For 2022: Included Apple, Apricot, Blueberry, Cherry, Fig (Fresh), Grape (Raisin & Table), Olive, Olive (Oil), Organic Fruit & Nut, Pear (Asian), Pecan, Persimmon, Plum, Pomegranate & Strawberry.

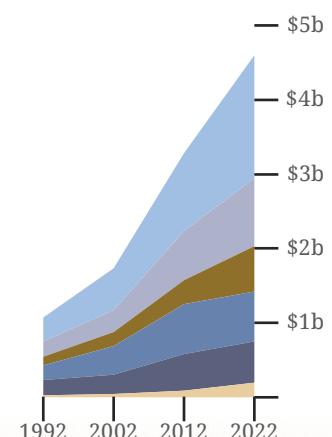


COMMODITY VALUE CROP COMPARISON



30-Year Totals Comparison

COMMODITY	1992	2002	2012	2022
Livestock & Poultry Products	\$318,356,000	\$559,953,000	\$1,038,014,000	\$1,649,358,000
Fruit & Nut Crops	\$209,267,000	\$296,063,000	\$664,510,000	\$914,464,000
Livestock & Poultry Production	\$201,835,000	\$384,998,000	\$669,453,000	\$668,776,000
Vegetable Crops	\$111,371,000	\$185,932,000	\$323,386,000	\$577,461,000
Field Crops	\$200,689,000	\$257,394,000	\$490,294,000	\$553,777,000
Nursery Products	\$11,212,000	\$21,991,000	\$47,736,000	\$97,338,000
Bee Industry	\$4,631,000	\$12,696,000	\$25,473,000	\$64,738,000
Other Agriculture	\$8,901,000	\$7,699,000	\$13,505,000	\$29,987,000
Seed Crops	\$1,726,000	\$937,000	\$5,929,000	\$5,640,000
Aquaculture	\$2,193,000	\$3,060,000	\$1,906,000	—
TOTAL	\$1,070,181,000	\$1,730,723,000	\$3,280,206,000	\$4,561,539,000



VEGETABLE CROPS

CROP	YEAR	ACRES HARVESTED	PRODUCTION PER ACRE	PRODUCTION TOTAL	PRODUCTION UNIT	VALUE PER UNIT	VALUE TOTAL	
MELONS (CANTALOUPES) ⁽¹⁾	2022	2,546	896.9202	2,283,819	40 LB CTN	\$12.34	\$28,192,000	
	2021	3,721	927.6255	3,451,258	40 LB CTN	\$4.24	\$14,622,000	
MELONS (OTHER) ⁽²⁾	2022	2,084	17.7004	36,888	TON	\$250.73	\$9,249,000	
	2021	1,036	40.6352	42,114	TON	\$207.74	\$8,749,000	
MISC. VEGETABLES ⁽³⁾	2022	10,799	—	—	—	—	\$140,758,000	
	2021	5,433	—	—	—	—	\$77,425,000	
SWEET POTATOES ⁽⁴⁾	2022	17,826	757.7900	13,508,612	40 LB CTN	\$18.00	\$243,156,000	
	2021	18,071	819.7776	14,760,269	40 LB CTN	\$21.53	\$317,789,000	
TOMATOES (MARKET) ⁽⁵⁾	2022	4,060	2013.0000	8,172,780	25 LB CTN	\$4.84	\$39,230,000	
	2021	4,594	1333.9197	6,128,027	25 LB CTN	\$6.84	\$41,916,000	
TOMATOES (PROCESSING)	2022	24,600	44.1000	1,084,860	TON	\$107.73	\$116,876,000	
	2021	24,900	46.5000	1,157,850	TON	\$84.51	\$97,849,000	
2022 TOTALS		61,915					\$577,461,000	
2021 TOTALS		57,755					\$558,350,000	

⁽¹⁾ For 2021 & 2022: Price reflects wholesale after packing & shipping.

⁽²⁾ For 2021 & 2022: Includes Honeydew, Melons & Watermelon.

⁽³⁾ For 2021: Includes Artichoke, Asparagus, Basil, Broccoli, Cabbage, Carrot, Cauliflower, Cilantro, Cucumber, Fennel, Garlic, Greenhouse Vegetables, Herbs, Jicama, Kale, Lettuce, Onion, Organic Vegetable Crops, Parsley, Pepper (Bell), Pumpkin, Radicchio & Squash.

For 2022: Includes Asparagus, Basil, Broccoli, Carrot, Cilantro, Cucumber, Garlic, Jicama, Kale, Lettuce, Onion, Organic Vegetable Crops, Parsley, Pepper (Bell), Pumpkin, Radicchio, Spearmint, Squash & Strawberry.

⁽⁴⁾ For 2021 & 2022: Unit = \$ per Carton. Price reflects wholesale after packing & shipping.

⁽⁵⁾ For 2021 & 2022: Price reflects wholesale after packing & shipping.

LIVESTOCK & POULTRY PRODUCTS

CROP	YEAR	PRODUCTION TOTAL	PRODUCTION UNIT	VALUE PER UNIT	VALUE TOTAL	
EGGS, CHICKEN (MARKET) ⁽¹⁾	2022	79,410,780	DOZN	\$1.83	\$145,188,000	
	2021	61,283,700	DOZN	\$1.13	\$69,404,000	
MILK (DAIRY COW)	2022	56,850,000	CWT	\$26.40	\$1,500,840,000	
	2021	56,960,000	CWT	\$19.20	\$1,093,632,000	
MILK (GOAT)	2022	56,357	CWT	\$57.50	\$3,241,000	
	2021	72,912	CWT	\$41.92	\$3,057,000	
WOOL	2022	62,973	LB	\$1.40	\$89,000	
	2021	63,337	LB	\$2.15	\$137,000	
2022 TOTALS					\$1,649,358,000	
2021 TOTALS					\$1,166,230,000	

⁽¹⁾ For 2021 & 2022: Includes Conventional & Organic Chicken Eggs.

LIVESTOCK & POULTRY PRODUCTION

CROP	YEAR	NUMBER OF HEAD	PRODUCTION PER HEAD	PRODUCTION TOTAL	PRODUCTION UNIT	VALUE PER UNIT	VALUE TOTAL
CATTLE & CALVES ⁽¹⁾	2022	413,131	7.90	3,263,772	CWT	\$89.70	\$292,759,000
	2021	419,221	7.91	3,317,652	CWT	\$77.84	\$258,246,000
CHICKENS (FRYERS & BROILERS)	2022	93,582,252	3.83	358,313,312	LB	\$0.91	\$325,531,000
	2021	86,451,189	4.04	348,865,414	LB	\$0.79	\$276,215,000
LIVESTOCK (MISCELLANEOUS) ⁽²⁾	2022	26,177	—	—	—	—	\$6,018,000
	2021	26,710	—	—	—	—	\$5,099,000
POULTRY & FISH (MISCELLANEOUS) ⁽³⁾	2022	259,965	1.26	327,953	LB	\$5.44	\$1,784,000
	2021	344,457	1.15	394,512	LB	\$3.72	\$1,467,000
SHEEP & LAMBS	2022	22,235	1.17	26,093	CWT	\$180.63	\$4,714,000
	2021	24,248	1.17	28,408	CWT	\$181.93	\$5,169,000
TURKEYS	2022	1,480,823	24.29	35,969,973	LB	\$1.06	\$37,970,000
	2021	1,370,852	24.76	33,939,752	LB	\$0.83	\$28,129,000
2022 TOTALS		95,784,583					\$668,776,000
2021 TOTALS		88,636,677					\$574,325,000

⁽¹⁾ For 2021 & 2022: Includes Calves, Cull Bulls (Dairy & Beef), Cull Cows (Dairy & Beef), Replacement Heifers (Dairy & Beef) & Stocker Cattle.

⁽²⁾ For 2021 & 2022: Includes Dairy & Meat Goats sold for meat.

⁽³⁾ For 2021 & 2022: Includes Chukar, Fish, Pheasant & Squab.

FIELD CROPS

CROP	YEAR	ACRES HARVESTED	PRODUCTION PER ACRE	PRODUCTION TOTAL	PRODUCTION UNIT	VALUE PER UNIT	VALUE TOTAL
BARLEY	2022	916	2.3067	2,112	TON	\$313.4446	\$663,000
	2021	915	1.9600	1,793	TON	\$195.0000	\$350,000
CORN (GRAIN) ⁽¹⁾	2022	2,634	4.6408	12,222	TON	\$480.3373	\$5,871,000
	2021	3,562	4.4576	15,878	TON	\$355.3965	\$5,643,000
COTTON (ACALA)	2022	5,899	3.1236	18,428	500 LB BALE	\$842.9599	\$15,534,000
	2021	5,899	3.2370	19,097	500 LB BALE	\$848.0200	\$16,195,000
COTTON (PIMA)	2022	14,240	3.2178	45,822	500 LB BALE	\$1,040.5928	\$47,683,000
	2021	14,444	3.0512	44,070	500 LB BALE	\$1,395.9000	\$61,517,000
COTTON (SEED)	2022		1.4914	26,771	TON	\$519.4648	\$13,907,000
	2021		0.4800	9,838	TON	\$420.4900	\$4,137,000
HAY (ALFALFA)	2022	41,148	7.3558	302,678	TON	\$347.5214	\$105,188,000
	2021	44,439	6.3800	283,444	TON	\$241.5342	\$68,462,000
HAY (GRAIN) ⁽²⁾	2022	39,574	4.0909	161,893	TON	\$217.5729	\$35,224,000
	2021	38,574	5.1967	200,460	TON	\$167.1487	\$33,507,000
HAY (SUDAN)	2022	13,154	3.5689	46,946	TON	\$328.5108	\$15,423,000
	2021	13,674	2.7100	36,996	TON	\$185.7200	\$6,871,000
MISC. FIELD CROPS ⁽³⁾	2022	4,128	—	—	—	—	\$8,380,000
	2021	5,118	—	—	—	—	\$4,660,000
PASTURE (IRRIGATED)	2022	10,135	—	10,135	ACRE	\$200.0000	\$2,027,000
	2021	13,054	—	13,054	ACRE	\$165.0000	\$2,154,000
PASTURE (OTHER)	2022	551,132	—	—	ACRE	\$30.5000	\$16,810,000
	2021	551,132	—	—	ACRE	\$30.5000	\$16,810,000
SILAGE (ALFALFA)	2022	—	4.0000	164,593	TON	\$75.0000	\$12,345,000
	2021	—	4.8883	214,787	TON	\$80.0000	\$17,183,000
SILAGE (CORN)	2022	89,392	25.7704	2,303,680	TON	\$71.0430	\$163,661,000
	2021	88,654	26.9589	2,390,018	TON	\$57.2501	\$136,829,000
SILAGE (OTHER) ⁽⁴⁾	2022	95,105	17.4639	1,660,909	TON	\$60.1982	\$99,984,000
	2021	74,704	15.9860	1,194,216	TON	\$39.8600	\$47,602,000
STRAW ⁽⁵⁾	2022	—	—	6,442	TON	\$99.5049	\$641,000
	2021	—	—	5,139	TON	\$98.7300	\$508,000
STUBBLE (PASTURE)	2022	—	—	3,292	ACRE	\$10.0000	\$33,000
	2021	—	—	3,555	ACRE	\$16.6300	\$66,000
WHEAT	2022	7,978	4.4392	35,417	TON	\$293.7264	\$10,403,000
	2021	9,209	2.3400	21,548	TON	\$224.7700	\$4,844,000
2022 TOTALS		875,435					\$553,777,000
2021 TOTALS		863,380					\$419,428,000

(1) For 2021 & 2022: Includes Human Consumption Corn (but not Fresh Market Corn) & Grain for feed.

(2) For 2021: Includes Forage Mix, Oat, Teffgrass, Timothy & Wheat.

For 2022: Includes Barley, Forage Mix, Oat, Teffgrass, Triticale & Wheat.

(3) For 2021: Includes Organic Barley, Corn, Cotton, Grain, Rice, Safflower, Silage & Sorghum.

For 2022: Includes Organic Barley, Cotton, Grain, Rice, Rye, Safflower & Silage.

(4) For 2021: Includes Clover, Forage Mix, Oat, Sorghum, Sudan, Triticale & Wheat.

For 2022: Includes Forage Mix, Oat, Rye, Sorghum, Sudan & Wheat.

(5) For 2021 & 2022: Includes Straw from Barley, Oat, Rice, Ryegrass & Wheat.

NURSERY PRODUCTS

CROP	YEAR	ACRES HARVESTED	VALUE TOTAL
ALL NURSERY PRODUCTS ⁽¹⁾	2022	1,513	\$97,954,000
	2021	1,296	\$107,514,000
2022 TOTALS		1,513	\$97,954,000
2021 TOTALS		1,296	\$107,514,000



(1) For 2021 & 2022: Includes Cane Berries, Christmas Trees, Crown & Cuttings, Decorative Plants, Transplants (Vegetable) & Turf. The separate production & value are not shown to avoid disclosing individual operations.

SEED CROPS

CROP	YEAR	ACRES HARVESTED	VALUE TOTAL
SEED CROPS ⁽¹⁾	2022	3,538	\$5,640,000
	2021	4,157	\$4,168,000
2022 TOTALS		3,538	\$5,640,000
2021 TOTALS		4,157	\$4,168,000



⁽¹⁾ For 2021: Includes Certified, Common & Phytosanitary Seed from Alfalfa, Barley, Broccoli, Oat, Rye, Triticale, Vegetable & Wheat.
For 2022: Includes Certified, Common & Phytosanitary Seed from Broccoli, Grass, Lettuce, Oat, Rye, Triticale & Wheat.

BEE INDUSTRY

CROP	YEAR	PRODUCTION TOTAL	PRODUCTION UNIT	VALUE PER UNIT	VALUE TOTAL
BEESWAX ⁽¹⁾	2022	43,822	LB	\$3.0000	\$132,000
	2021	22,995	LB	\$2.4300	\$56,000
BULK BEES ⁽²⁾	2022	57,661	LB	\$32.6700	\$1,884,000
	2021	52,357	LB	\$31.2500	\$1,637,000
HONEY ⁽³⁾	2022	2,191,118	LB	\$2.6600	\$5,829,000
	2021	1,149,753	LB	\$2.4000	\$2,760,000
POLLINATION ⁽⁴⁾	2022	260,650	COLONY	\$215.4400	\$56,155,000
	2021	224,272	COLONY	\$198.8500	\$44,596,000
QUEENS ⁽⁵⁾	2022	32,415	EACH	\$22.7700	\$738,000
	2021	20,210	EACH	\$19.7300	\$399,000
2022 TOTALS					\$64,738,000
2021 TOTALS					\$49,448,000



⁽¹⁾ For 2021: Beeswax produced by 52,357 resident colonies.
For 2022: Beeswax produced by 57,661 resident colonies.
⁽²⁾ For 2021 & 2022: Includes Bees sold as Bulk Bees, Nuclei & Packaged Bees produced by resident colonies.
⁽³⁾ For 2021 & 2022: Honey produced by resident colonies.
⁽⁴⁾ For 2021 & 2022: Pollination colonies include all required to pollinate crops grown in Merced County.
⁽⁵⁾ For 2021 & 2022: Includes mated Queens & Queen Cells.

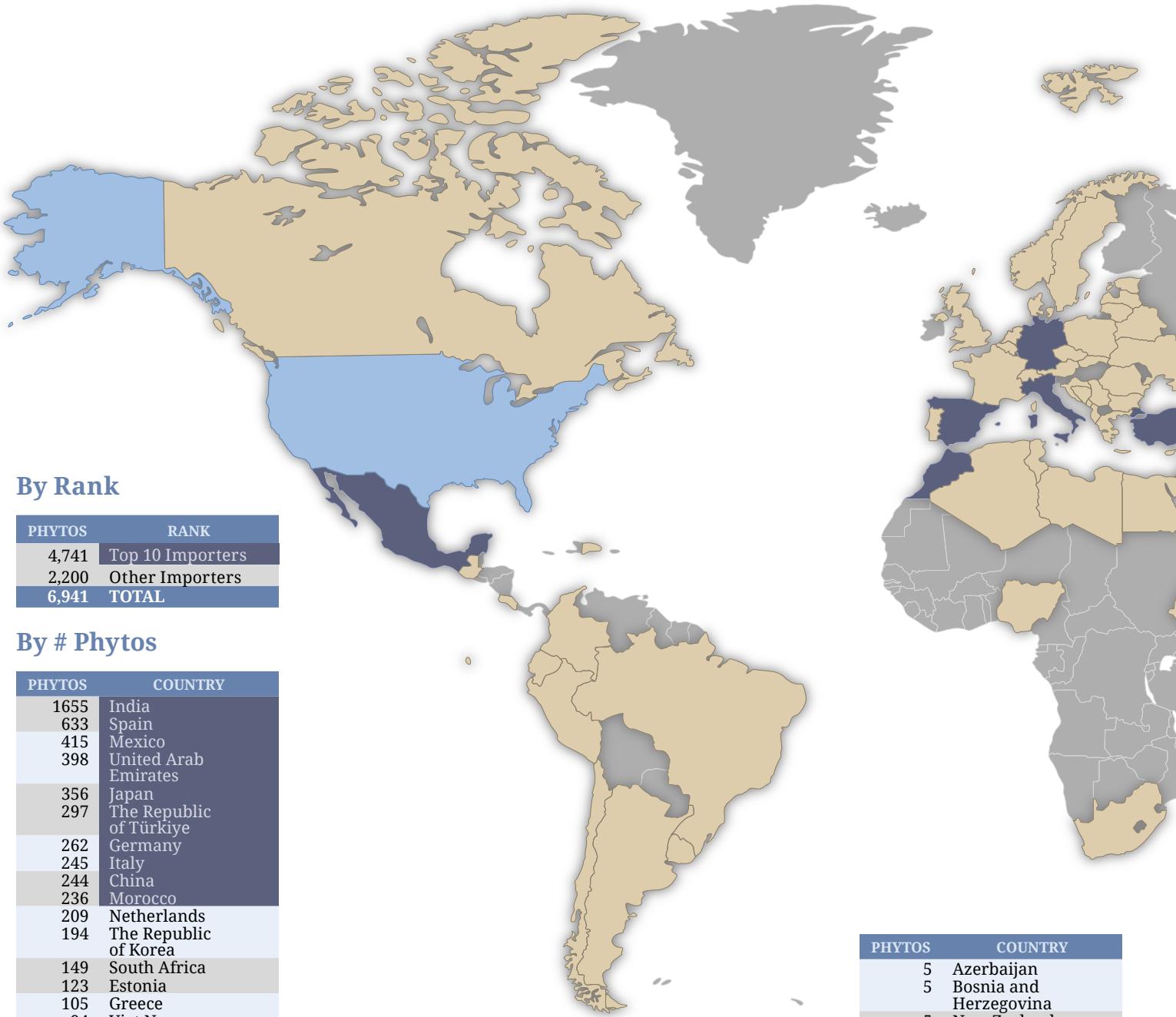
OTHER AGRICULTURE

CROP	YEAR	PRODUCTION TOTAL	PRODUCTION UNIT	VALUE PER UNIT	VALUE TOTAL
ALMOND (HASH) ⁽¹⁾	2022	1,641	TON	\$1,826.67	\$2,998,000
	2021	1,296	TON	\$2,442.86	\$3,165,000
ALMOND (SHELLS) ⁽²⁾	2022	109,189	TON	\$38.35	\$4,188,000
	2021	74,237	TON	\$9.46	\$703,000
FIREWOOD ⁽³⁾	2022	22,911	CORD	\$194.00	\$4,445,000
	2021	12,665	CORD	\$245.08	\$3,104,000
FUEL (COGENERATION) ⁽⁴⁾	2022	87,090	TON	\$20.00	\$1,742,000
	2021	63,061	TON	\$20.00	\$1,262,000
MANURE ⁽⁵⁾	2022	1,433,321	TON	\$11.59	\$16,614,000
	2021	1,616,639	TON	\$9.53	\$15,413,000
2022 TOTALS					\$29,987,000
2021 TOTALS					\$23,647,000



⁽¹⁾ For 2021 & 2022: Almond By-product.
⁽²⁾ For 2021 & 2022: For Animal Bedding & Cogeneration.
⁽³⁾ For 2021 & 2022: Includes Orchard Prunings & Removals for Firewood (recorded in cords). Cord: 128 Cubic Feet.
⁽⁴⁾ For 2021 & 2022: Includes Orchard Prunings & Orchard Removals for Fuel (recorded in dry tons).
⁽⁵⁾ For 2021 & 2022: Includes livestock & poultry manure.

COUNTRIES & PRODUCTS OF EXPORT



PHYTOS	COUNTRY
5	Azerbaijan
5	Bosnia and Herzegovina
5	New Zealand
4	Argentina
4	Ethiopia
4	Montenegro
3	Albania
3	Costa Rica
3	Cyprus
2	Austria
2	Bahrain
2	Dominican Republic
2	Guatemala
2	Sweden
1	Kyrgyzstan
1	Nepal
1	Nigeria
1	Oman
1	Philippines
1	Romania
1	Uruguay

Products of Export

Almonds

Black Walnut Logs & Burls

Blackberry Bare Root Plants

Cherry Budwood

Chicory

English Walnut Logs

Fennel

Figs

Japanese Bush Cherry Budwood

Nectarine Budwood

Onion Seed

Peach Budwood

Pistachios

Plum Budwood

Dried Prunes

Radicchio

Raspberry Bare Root Plants

Rice

Strawberry Bare Root Plants

Sweet Potatoes

Treviso

Walnuts

By Country

PHYTOS	COUNTRY
31	Afghanistan
3	Albania
46	Algeria
4	Argentina
9	Armenia
18	Australia
2	Austria
5	Azerbaijan
2	Bahrain
25	Belarus
72	Belgium
5	Bosnia and Herzegovina
14	Brazil
10	Bulgaria
50	Canada
58	Chile
244	China
16	Colombia
3	Costa Rica
14	Croatia
3	Cyprus
8	Czech Republic
16	Denmark
2	Dominican Republic
9	Ecuador
15	Egypt
123	Estonia

PHYTOS	COUNTRY
4	Ethiopia
29	France
13	Georgia
262	Germany
105	Greece
2	Guatemala
21	Hong Kong
1655	India
35	Indonesia
28	Iraq
29	Israel
245	Italy
356	Japan
21	Jordan
62	Kazakhstan
17	Kuwait
1	Kyrgyzstan
66	Latvia
13	Lebanon
86	Libya
15	Lithuania

PHYTOS	COUNTRY
60	Malaysia
415	Mexico
4	Montenegro
236	Morocco
1	Nepal
209	Netherlands
5	New Zealand
1	Nigeria
6	Norway
1	Oman
14	Pakistan
31	Peru
1	Philippines
15	Poland
10	Portugal
9	Qatar
1	Romania
65	Saudi Arabia

PHYTOS	COUNTRY
7	Serbia
13	Singapore
18	Slovakia
149	South Africa
633	Spain
2	Sweden
16	Switzerland
39	Taiwan
32	Thailand
194	The Republic of Korea
297	The Republic of Türkiye
7	Tunisia
9	Ukraine
398	United Arab Emirates
76	United Kingdom
1	Uruguay
94	Viet Nam



RAINFALL MERCED COUNTY 1971–2021

YEAR	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1972-73	00.00	00.00	00.11	00.69	04.91	01.58	03.12	04.72	03.16	00.11	00.00	00.00	18.40
1973-74	00.00	00.00	00.00	02.10	01.65	03.15	01.95	00.50	02.37	01.44	00.00	00.06	13.22
1974-75	00.42	00.00	00.00	01.06	00.66	02.14	00.50	03.99	03.11	00.95	00.00	00.00	12.83
1975-76	00.10	00.11	00.02	00.92	00.17	00.13	00.14	02.01	00.41	01.14	00.00	00.07	05.22
1976-77	00.02	00.22	00.97	00.16	01.06	00.57	00.66	00.29	01.05	00.02	00.90	00.44	06.36
1977-78	00.00	00.00	00.00	00.00	00.44	02.75	04.93	03.78	04.22	03.48	00.00	00.00	19.60
1978-79	00.00	00.00	00.74	00.00	02.13	01.06	04.35	03.02	01.73	00.49	00.19	00.00	13.71
1979-80	00.21	00.00	00.00	00.84	01.09	01.79	03.83	03.45	01.19	00.77	00.46	00.00	13.63
1980-81	00.00	00.00	00.00	00.13	00.00	00.72	02.83	01.42	03.27	00.75	00.10	00.00	09.22
1981-82	00.00	00.00	00.00	01.13	03.63	00.59	01.60	02.08	05.39	01.85	00.00	00.05	16.32
1982-83	00.00	00.00	01.14	00.98	02.84	02.70	04.89	03.43	05.47	02.01	00.44	00.00	23.90
1983-84	00.00	00.10	02.77	00.43	02.12	02.63	00.12	00.88	00.33	00.08	00.00	00.02	09.48
1984-85	00.03	00.03	00.17	00.54	01.10	01.65	00.56	00.98	01.91	00.06	00.00	00.12	07.15
1985-86	00.00	00.00	00.00	00.60	03.28	01.26	00.92	03.72	03.90	00.64	00.25	00.00	14.57
1986-87	00.00	00.00	00.30	00.00	00.06	01.65	01.70	02.96	02.97	00.08	00.11	00.00	09.83
1987-88	00.00	00.00	00.00	00.47	00.89	02.46	01.60	00.87	00.29	02.03	00.38	00.01	09.00
1988-89	00.00	00.00	00.00	00.00	01.33	02.43	00.62	01.57	02.24	00.10	00.00	00.00	08.29
1989-90	00.00	00.05	01.34	01.55	00.48	00.10	02.08	01.64	00.68	00.59	01.62	00.00	10.13
1990-91	00.00	00.00	00.00	00.18	00.36	00.64	00.16	01.68	05.15	00.34	00.09	00.01	08.61
1991-92	00.00	00.11	00.00	01.59	00.53	01.46	01.56	03.77	02.02	00.02	00.00	00.06	11.12
1992-93	00.18	00.00	00.00	00.90	00.08	02.44	05.70	03.44	02.53	00.33	01.06	00.61	17.27
1993-94	00.00	00.00	00.00	00.18	00.68	01.30	02.29	03.30	00.18	01.10	01.38	00.00	10.41
1994-95	00.00	00.00	00.22	00.58	01.60	00.92	06.71	00.37	04.31	01.35	01.10	00.59	17.75
1995-96	00.02	00.00	00.00	00.00	00.00	03.25	03.15	03.43	01.84	00.84	01.03	00.00	13.56
1996-97	00.00	00.00	00.00	01.27	02.37	04.49	04.58	00.26	00.00	00.14	00.01	00.05	13.17
1997-98	00.00	00.00	00.07	00.07	02.44	01.63	04.89	06.10	04.81	00.99	02.13	00.48	23.61
1998-99	00.00	00.00	00.02	00.76	01.11	00.85	02.00	02.59	01.13	01.34	00.19	00.00	09.99
1999-00	00.00	00.00	00.00	00.00	00.90	00.27	03.28	04.80	00.95	02.06	00.79	00.18	13.23
2000-01	00.00	00.00	00.10	03.52	00.12	00.15	03.14	02.19	01.40	01.70	00.00	00.00	12.32
2001-02	00.00	00.00	00.14	00.33	02.27	02.59	01.01	00.88	01.47	00.15	00.47	00.00	09.31
2002-03	00.00	00.00	00.00	00.00	01.81	03.69	00.75	01.04	00.91	01.28	00.94	00.00	10.42
2003-04	00.00	00.10	00.02	00.00	00.80	03.05	00.89	03.77	00.77	00.00	00.19	00.00	09.59
2004-05	00.00	00.00	00.11	02.91	01.20	03.37	04.18	02.50	02.87	01.17	01.11	00.02	19.44
2005-06	00.00	00.00	00.22	00.11	00.15	02.81	02.75	01.01	03.36	02.47	01.07	00.00	13.95
2006-07	00.00	00.00	00.00	00.23	00.68	01.75	00.48	01.93	00.31	00.75	00.01	00.00	06.14
2007-08	00.01	00.00	00.25	00.85	00.22	01.23	04.26	01.86	00.06	00.01	00.07	00.00	08.82
2008-09	00.00	00.00	00.00	00.12	00.83	01.25	01.82	02.15	01.02	00.45	00.05	00.01	07.70
2009-10	00.00	00.00	00.17	01.68	00.16	02.72	02.73	02.82	01.07	03.36	00.46	00.00	15.17
2010-11	00.00	00.00	00.00	00.82	02.02	03.33	01.60	01.93	04.11	00.20	00.76	01.16	15.93
2011-12	00.00	00.00	00.00	00.95	00.88	00.06	00.73	00.69	02.02	01.69	00.01	00.37	07.40
2012-13	00.02	00.00	00.02	00.23	01.60	02.96	01.04	00.38	00.74	00.43	00.10	00.09	07.61
2013-14	00.00	00.00	00.00	00.10	00.62	00.29	00.31	01.65	01.41	00.53	00.06	00.00	04.97
2014-15	00.00	00.00	00.00	00.66	00.70	03.39	00.02	01.05	00.19	00.44	00.74	00.00	07.19
2015-16	00.00	00.06	00.00	00.41	02.00	01.23	04.27	00.70	02.31	02.47	00.55	00.00	14.00
2016-17	00.00	00.00	00.00	01.43	00.89	01.91	05.61	03.51	01.29	01.15	00.19	00.05	16.03
2017-18	00.00	00.00	00.02	00.15	00.88	00.08	01.30	00.29	02.07	00.16	00.04	00.00	04.99
2018-19	00.00	00.00	00.00	00.00	00.21	01.51	02.25	03.42	02.28	00.05	00.97	00.00	10.69
2019-20	00.00	00.00	00.07	00.00	00.89	04.06	00.71	00.00	02.37	01.63	00.40	00.00	10.13
2020-21	00.00	00.00	00.01	00.04	00.98	01.39	03.71	00.48	01.40	00.02	00.00	00.00	08.03
2021-22	00.00	00.00	00.00	01.74	00.54	03.38	00.18	00.24	00.94	00.65	00.00	00.05	07.72
Average	00.02	00.02	00.18	00.67	01.17	01.86	02.29	02.11	02.02	00.92	00.41	00.09	11.74

Source: cimis.water.ca.gov

AGRICULTURAL COMMISSIONER PROGRAMS

Pest Exclusion

- Interior Pest Exclusion:
Enforcement of quarantines, inspection of packages, phytosanitary certification of exports
- Exterior Pest Exclusion:
Enforcement of quarantines for materials subject to infestation that have crossed into California with a Merced County destination
- Nursery & Seed Licensing, pest cleanliness inspections, registration & certification, truth in labeling & quality, soil
- Noxious Weed Survey
Sampling of weeds & survey their locations within the county

Pest Detection

- Early detection of insect pests
- Administering specific “action plans” for unwanted agricultural pests
- Maintaining properly trained & equipped pest detection team members

Pest Eradication

- Local government liaison to CDFA after a pest species is discovered
- Eradication of discovered invasive or exotic pest species

Pest Management

- Managing nuisance pests of agriculture & human health
- Programs include glassy-winged sharpshooter, ground squirrels, water hyacinth, etc.

Pesticide Use Enforcement

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



Industrial Hemp

- Registration, inspection, and sampling of industrial hemp cultivation sites to ensure compliance with state requirements

Apiary Inspections

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

Fruits, Nuts & Vegetables Standardization

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

Crop Statistics

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

Seed Certification

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

Nursery Inspection

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

PEST EXCLUSION & DETECTION PROGRAMS

The California Food and Agricultural Code mandates pest prevention programs to prevent the introduction and spread of pests in California. Pest prevention involves Pest Exclusion, Pest Detection, Pierce's Disease Control, and the Federal Phytosanitary Certification Program.

Pest Exclusion Program

Pest Exclusion is the first line of defense to prevent the introduction of pests, injurious to agriculture, that are not of common occurrence in Merced County. We conduct numerous activities to exclude pests which include package inspections at package carriers including the United States Post Office, UPS and FedEx for any incoming plant, plant product, and conveyance inspections: plant nursery, beehive inspections, and many more. If an invasive pest is intercepted, the commodity is either returned to the shipper, treated or destroyed to eliminate the pest.

A total of 4,179 shipments of incoming plant material were inspected in 2022. Shipments are inspected at United Parcel Service, United States Post Offices, Federal Express and trucking terminals. Three shipments were rejected for material not properly certified or improper container markings.

Pest Detection Program

Merced County's second line of defense is our Pest Detection Trapping, which target specific detrimental pests throughout the county of high agricultural and economic importance through trapping, luring and surveying. The primary objectives of the trapping program are to find insect pests before they infest one square mile, plant diseases before they exceed one-half square mile and vertebrate pests in the smallest area possible. Our Pest Detection Program is currently targeting the following pests:

TARGET PEST	INSECT HOSTS	TRAPS PLACED	SERVICING
Asian Citrus Psyllid	Citrus	620	6,595
European Pine Shoot Moth	Pine Trees	2	9
Glassy-Winged Sharpshooter	Nurseries/Urban Areas	991	3,733
Invasive Shot Hole Borer	Shade Tree	4	38
European Grape Vine Moth	Grapes	668	5,667
Melon Fruit Fly	Vegetable Gardens	109	1,057
Oriental Fruit Fly	Fruit Trees	305	4,604
European Corn Borer	Corn	5	71
Spongy Moth	Shade Trees	98	540
Japanese Beetle	Turf, Rose	99	545
General Fruit Fly	Fruit Trees	73	417
Mediterranean Fruit Fly	Fruit Trees	305	4,615
Mexican Fruit Fly	Fruit Trees	102	3,054
Sweet Potato Weevil	Sweet Potatoes	265	1,025

A total of 2,041 pest detection traps were placed in Merced County and inspected a total of 28,237 times during the 2022 trapping season. Most of the traps are maintained on a seasonal basis of March through November,

while a few are maintained throughout the year. Each trap is serviced weekly to monthly.

Pierce's Disease Control Program

Preventing the introduction of the Glassy-winged Sharpshooter (GWSS) into Merced County, which is the main insect vector of Pierce's Disease, all shipments of nursery stock from infested counties, shipped by nurseries under a Master Compliance Agreement, are inspected. GWSS has the ability to spread Pierce's Disease rapidly among grape vines with devastating results. GWSS ranges over many habitats, including agricultural crops, urban landscapes, native woodlands, and riparian vegetation. It feeds on hundreds of plant species including woody plants and annual and perennial herbaceous plants. Common landscape host plants include bird of paradise, cottonwood, crepe myrtle, eucalyptus, euonymus, hibiscus, pittosporum, sunflower and xylosma, among many others.

- 348 shipments of nursery stock from infested counties were inspected in 2022.
- 991 yellow paneled traps were placed.
- Traps were serviced every two weeks for a total of 3,733 times.
- No GWSS were detected for 2022 season.

Federal Phytosanitary Certification Program

Partnering with USDA, the Federal Phytosanitary Certification Program ensures that plants and plant commodities exported to foreign countries from Merced County are free from injurious pests and diseases that we may have, but are not present in other countries. There are innumerable quarantines (State Interior and Federal Domestic) that require the regulatory attention of Merced County Agricultural Commissioner, but our role to ensure compliance with the import requirements of our international trading partners is also enormously important. In 2022, the Merced County staff inspected and issued 6,941 Phytosanitary Certificates, exporting 22 unique agricultural commodities to 84 different countries around the world.

PEST ERADICATION

The Pest Eradication Program endeavors to eliminate infestations of significant agricultural pests with limited distribution before they are able to cause ongoing economic cost to California agriculture.

Successful eradication projects include Sweet Potato Weevil, Banana Waterlily, Japanese Dodder, and European Grapevine Moth (EGVM).

In 2022, noxious weed survey and mapping activities took place throughout the county. Historical sites of South African Sponge Plant, Purple Loosestrife and South American Capeweed were surveyed. Staff also catalogued and

photographed any new locations of established and newly identified noxious and invasive weed species. This project will continue into 2023.

Detection and eradication efforts for the insect pest Pink Bollworm continues. There were no Pink Bollworm moths detected in Merced County during 2022. The Pink Bollworm is a major cotton pest. Eradication efforts included a State operated trapping program of 20,343 acres in conjunction with County enforcement of the host free period from January 1st through March 10th, also known as Cotton Plowdown. Treatment is accomplished by mating disruption utilizing pheromones and sterile moths.

THE DIVISION OF WEIGHTS & MEASURES

The Division of Weights & Measures is mandated by state law to protect the interests of the buyer and seller to ensure honesty and integrity of everyday business transactions.

This protection is accomplished through our continuous and systematic inspection of all equipment that weighs or measures a commodity that is sold.

Every transaction involving the exchange of goods, property, and service is affected in a very vital way by some form of weights and measures.

Weights & Measures Department performs many different types of inspections. Some of the tasks include:

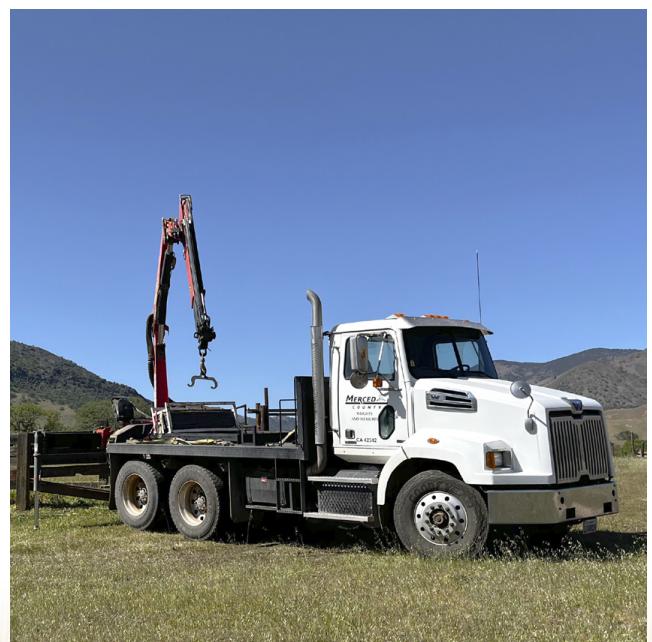
- **Scale Inspections**—Annually inspect commercial weighing and measuring devices to ensure they are correct. Some examples of commercial devices include livestock scales, vehicle scales, propane delivery trucks, fuel dispensers, and taxi meters.
- **Petroleum**—We protect consumers by sampling fuel quality, inspecting labeling of petroleum products and service station advertising.
- **Quantity Control**—We inspect packaged commodities to determine proper weight, measure, or count of packaged goods. We ensure package label requirements and pricing accuracy at the checkout.
- **Weighmaster**—Persons licensed to certify the weighed, measured, or counted quantity of any commodity are weighmasters. Inspectors assure that commercial transactions certified on a Weighmaster Certificate are accurate.
- **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 and to verify the appropriate use of the commercial devices.



Selected Weights & Measures Device Inspections

Includes noncommercial devices. This is the total of inspections, not the total of devices.

INSPECTIONS			
Liquefied Petroleum Gas (LPG) Meters		62	
Retail Motor Fuel Meters		3215	
Taxi Meters		10	
Odometers		46	
Retail Water Dispensers		118	
Dormant & Portable Platform Scales		145	
SMALL SCALES	Computing Scales	678	
	Counter Scales	27	740
	Hanging Scales	35	
LARGE SCALES	Livestock Scales	50	256
	Vehicle Scales	206	
RESIDENTIAL SUBMETERS	Electric Submeters	362	
	Vapor Submeters	118	552
	Water Submeters	72	
TOTAL			5144



ORGANIC FARMING

Merced County had 108 organic producers, 26 organic handlers, and 10 organic processors in 2022. The 108 organic producers grew over 120 assorted approved organic commodities within Merced County. the organic producers had 1,754 different production sites making up over 83,094.26 acres of organic production. In 2022, Merced County organic growers reported estimated gross sales of approximately \$206,375,000. Merced County handlers estimated gross sales were approximately \$89,454,000 and organic processors approximate gross sales were \$94,913,000 in 2022.



All of Merced County's organic producers, handlers, and processors were certified in the California Organic Program through California Department of Food and Agriculture, overseen by the United States Department of Agriculture National Organic Program. Organic is a labeling term that indicates that the food or other agricultural product has been produced through approved methods. These methods integrate cultural, biological, and mechanical practices that foster cycling of resources, promote ecological balance, and conserve biodiversity.

HARVESTED ACRES	COMMODITY
34,544.7	All other Field Crops (INCL. PASTURE & RANGELAND)
29,345.9	Cattle, Beef
8,166.1	All Other Vegetables
2,856.8	Almonds
2,138.0	Chicken, Layers
1,936.0	Fallow
1,380.0	Fluid Milk, Cow
882.4	All other Fruit Crops
779.0	All other Nut Crops
565.3	Chicken, Broilers
179.3	Tomatoes
128.0	Stone Fruit
77.0	All other Not Previously Reported or Listed
24.5	Pome Fruit
20.0	All other Dairy & Dairy Products
18.9	Broccoli
14.7	Seed Crops
8.1	Lettuce (HEAD, LEAF, SPRING/SALAD MIXES)
6.3	Celery/Celeriac
5.6	All other Poultry / Livestock and Products
5.5	All other Berries
5.1	Propagation
2.3	Carrots
2.0	Spinach (FRESH & PROCESSED)
1.1	Grapes, Table
0.6	Citrus
0.3	Strawberries (FRESH MARKET)
83,094.3	TOTAL ACRES HARVESTED



CERTIFIED PRODUCERS

The Certified Producers Program, also known as Direct Marketing, provides an opportunity for communities to have high quality produce provided by local growers through certified farmers' markets. Each farmers' market is certified through the California Department of Food & Agriculture and each have a unique set of market rules to provide consumers with a wide selection of agricultural commodities. Certified producers participating in certified farmers' markets must apply with the Agricultural Commissioner's Office and show the staff of the Commissioner's Office that they grow what they sell. Certified farmers' markets provide a great opportunity for small farmers to market their products without the added expense of commercial preparation.

In 2022, Merced County had 65 certified producers who grew within the county and one certified farmers' market:

- **The Original Merced Co. Certified Farmers' Market**
16th & Canal Street, Merced
Open Year-Round Saturdays 8am–11am



DEDICATION

David A. Robinson

Merced County
Agricultural Commissioner
and Sealer of Weights & Measures

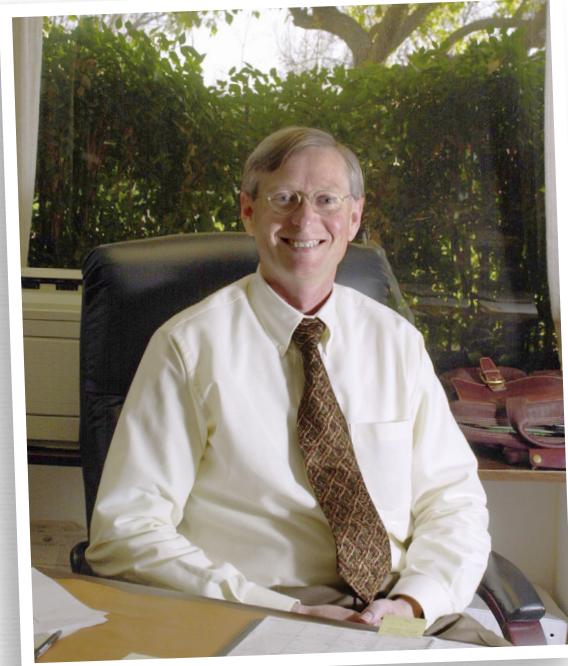
February 18, 2003 – December 30, 2022

In recognition of a remarkable career dedicated to the growth and prosperity of our Department, the 2022 Merced County Crop Report is proudly dedicated to David A. Robinson.

Dave's journey in agriculture began over three decades ago in Madera County, where he embarked on his career as an Agricultural Weights & Measures Inspector in 1988. Rising through the ranks, Dave was rightfully promoted to the position of Madera County Assistant Commissioner/Sealer in 1996.

In 2003, Merced County was fortunate to have Dave join its ranks as the Agricultural Commissioner and Sealer of Weights & Measures. In this role, he continued to demonstrate unparalleled dedication to the well-being of farmers, producers and consumers alike, leaving an indelible mark on agriculture in Merced County. For the past 19 years, Dave has served with unwavering commitment and expertise as our esteemed Agricultural Commissioner and Sealer of Weights & Measures.

As we dedicate this crop report to Dave, we celebrate a true champion of agriculture, a mentor to many, and a friend to all. The staff at the Merced County Department of Agriculture extend our heartfelt appreciation and gratitude to Dave for his 34 years of service.





STAFF

AGRICULTURAL COMMISSIONER / SEALER OF WEIGHTS & MEASURES

David A. Robinson

ASSISTANT AGRICULTURAL COMMISSIONER

Sean Runyon

DEPUTY AGRICULTURAL COMMISSIONERS

Jon Chapman

Cari Gansberger

Derrik Hunger

Carrie Mitchell

AGRICULTURAL BIOLOGISTS

Robert Aguilar

Sandra Brasil

Jennifer Dimapasoc

Milford Esau

Olivia Guzman

Avery Harman

Juan Hernandez

Gurtej Johal

Nils Johnson

Loren Lamb

Valerie Madrigal

Charizma Mendoza

Colleen Murray

Cameron Stevens

Cody Thompson

Blaine Weber

SUPERVISING WEIGHTS AND MEASURES INSPECTOR

Mark Conover

WEIGHTS & MEASURES INSPECTORS

Gabriel Rudich

Conor Warde

ADMINISTRATIVE SUPPORT STAFF

Jamie Kucius, STAFF SERVICES ANALYST

Margaret Kohn, OFFICE ASSISTANT

Jill McCabe, OFFICE ASSISTANT

Bhavana Naik, OFFICE ASSISTANT

Bee Xiong, OFFICE ASSISTANT

INTEGRATED PEST MANAGEMENT SPECIALIST

Carlos Medina

STUDENT INTERN

Yasmin Vasquez

AGRICULTURAL – SEASONAL

Beatrix Andrade
Cliff Freitas

Alexis Guzman
Jose Laguna
Jesus Molina

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