

*CROP & LIVESTOCK
REPORT*



MADERA COUNTY 2018

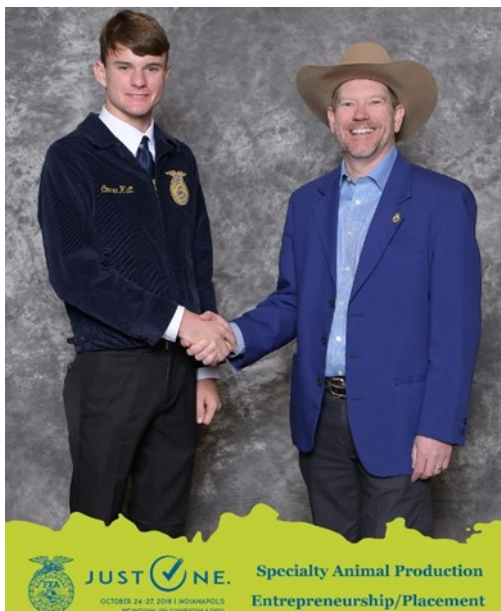
About the Cover:

Conner Hiatt, a senior at Liberty High School and a member of the Madera-Liberty FFA Chapter, last fall earned the opportunity to compete at the FFA National Convention in Indiana. His road to Indiana started with an application at the sectional level in February 2018 under one of 47 proficiency categories, his being Specialty Animal Production. Agricultural proficiency awards recognize FFA students who have, through a Supervised Agricultural Experience (SAE), developed and grow a project they can apply towards a future career in agriculture. His proficiency project was a bee project. He started his project in 2016 when he purchased his first hive and continued to grow his business until he had eight hives. He won the East Fresno-Madera Section, which consisted of FFA chapters in Madera and Fresno counties east of State Route 99. Winning regionals was his next step, regionals covers Madera, Fresno, Tulare, Kings, Kern, and Inyo counties. At California State FFA Convention he was interviewed by a panel regarding his application. He became the California State FFA winner in April.

He subsequently applied to compete at the FFA National Convention. Conner was one of four winners from California that qualified to go to Nationals. His competitors were college students from Ohio, Georgia, and Minnesota. Upon arriving he was interviewed about his project by a panel. He did not win Nationals, however, it was a great experience for him to compete at that level. He was accompanied to Indiana by his two FFA advisors, Anne Deniz and Katie Mellott, plus his parents, Jerry and Marsha Hiatt.

In addition to FFA, Conner is involved in a swine project every year in high school for the Chowchilla Fair. He is also a three sport varsity athlete. He plays football as a wide receiver, outside linebacker and on special teams. He has also been on the varsity wrestling team since his freshman year. Last year, his team won League, he took second at valley and qualified to compete at Masters. Conner also runs the 100 & 200-meter dash on his track team, where he ran his teams fastest 200 this past year. In 2017 he earned his Eagle Scout award. In his free time, he enjoys fishing and hunting. He also has a dirt bike he rides every chance he gets.

His future plans are to attend college where he will pursue an agricultural-based degree. After graduating he will consider joining in his family's beekeeping business or possibly ventured out on his own. Conner appreciates all the support he has received with his projects. Lastly, he wants to extend a special thank you to the companies, Fresno Madera Farm Credit, Golden Valley Ag Foundation, Madera County Ag Boosters, and Wonderful Ag, who supported his trip to Nationals.



Front cover and inside cover photos/biography: Marsha Hiatt



Madera County Department of Agriculture Weights and Measures

Stephanie "Stevie" McNeill, Agricultural Commissioner
Sealer of Weights and Measures

Karen Ross, Secretary
California Department of Food and Agriculture

and

The Honorable Board of Supervisors
County of Madera, California

Brett Frazier	Chairman, District 1
David Rogers	District 2
Robert Poythress	District 3
Max Rodriguez	District 4
Tom Wheeler	District 5

It is my pleasure to present the 2018 Madera County Agricultural Crop and Livestock Report. This annual statistical report is compiled in accordance with Sections 2271 and 2279 of the California Food and Agricultural Code, and contains data on the acreage, yield, and values of Madera County Agricultural commodities. The values in this report are gross values, and do not represent net income or loss to producers.

For 2018, the gross value of all production was \$2,058,474,000; this is an increase of \$85,025,000 (4.31%) compared to 2017 production. This is a sign of market prices continuing to stabilize in the past three years. Madera County is ranked 11th among the fifty-eight California counties in total agricultural production.

Crop values can vary from year to year due to the variables of production, market and weather conditions. Almonds (nut meats & hulls) retained the number 1 rank of the ten leading crops for the ninth year in a row, with a value of \$730,662,000, a slight 1% increase from 2017. Increases were seen in almond bearing acreage and price per ton, but the yield was slightly down. Grapes moved up to take the number two spot, reflecting price per ton increases. Pistachios, which had a yield "on" year in 2018, took the number three rank. Milk fell to fourth, mainly due to a decrease in price. Pollination moved up to fill in the fifth spot.

I wish to extend my appreciation to our Madera County farmers, ranchers, agricultural industries and agencies. Without their efforts and contributions of information, this report would not be possible. Additionally, I would like to express my thanks to my staff that contributed to compiling and preparing this report, and especially to Senior Agricultural and Standards Inspector Cha Vang and his dedication to producing the annual report.

To view the 2018 Madera County Agricultural and Livestock Report, and previous reports going back to the 1920's, please visit our website online at <https://www.maderacounty.com/government/agricultural-commissioner-weights-and-measures/annual-crop-reports>

Respectfully submitted,

Stevie McNeill, Madera County Agricultural Commissioner/Sealer



- MADERA COUNTY STAFF -

Madera County Board of Supervisors

Brett Frazier...Chairman, District 1 **David Rogers**...District 2
Robert L. Poythress...District 3 **Max Rodriguez**...District 4
Tom Wheeler...District 5

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Deputy Agricultural Commissioner/Sealer

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Molly Glover **Alison Steen**
Jessica Graves **Cha Vang**

Agricultural & Standards Technicians

Bobby Arias **Gabriel Mejia**

Administrative Support Staff

Steve Monk, Administrative Analyst II
Tammy Dodson, Program Assistant II
Mary Arias, Program Assistant I

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Madera-Liberty FFA	Inside Back Cover

Active Future Farmers of America (FFA) Chapters of Madera County as of May 24, 2018

1. Chowchilla (Chowchilla High School)
2. Madera (Madera South High School)
3. Madera - Liberty (Liberty High School)
4. O'Neals - Minarets (Minarets High School)
5. Oakhurst - Yosemite (Yosemite High School)

TEN LEADING CROPS

MADERA COUNTY 2018

Commodity	2018 Rank	2018 Dollar Value	2017 Rank
Almonds, Nuts & Hulls	1	\$730,662,000	1
Grapes	2	\$307,655,000	3
Pistachios	3	\$296,602,000	4
Milk	4	\$279,799,000	2
Pollination	5	\$56,160,000	6
Cattle & Calves	6	\$51,204,000	5
Tomatoes, Fresh & Process	7	\$31,709,000	9
Replacement Heifers	8	\$28,560,000	7
Nursery Stock	9	\$27,969,000	8
Poultry	10	\$26,504,000	10

Madera County's Million Dollar Crops: 1968 and 2018

Year: 1968	Year: 2018
Grapes \$18,732,000	Almonds, Nuts & Hulls \$730,662,000
Cattle & Calves 12,629,000	Grapes 307,655,000
Cotton 9,486,000	Pistachios 296,602,000
Milk 7,621,000	Milk 279,800,000
Alfalfa 6,600,000	Pollination 56,160,000
Turkeys 4,326,000	Cattle & Calves 51,204,000
Peaches 2,223,000	Tomatoes, Fresh & Process 31,709,000
Pasture 2,160,000	Replacement Heifers 29,560,000
Potatoes 1,895,000	Nursery Stock 27,969,000
Barley 1,857,000	Poultry 26,504,000
Corn 1,083,000	Figs 18,477,000
	Alfalfa 17,752,000
	Wheat, Silage & Grain 11,885,000
	Rangeland 9,675,000
	Plums, Dried 7,311,000
	Peaches 7,048,000
	Walnuts 5,808,000
	Cherries 3,094,000
	Olives, Fresh & Oil 2,043,000
	Oat Hay 1,979,000
	Cotton 1,746,000



FIELD CROPS

Item	Year	PRODUCTION			VALUE		
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Alfalfa							
Hay	2018	10,200	7.12	72,624	Ton	\$214.00	\$15,542,000
	2017	11,700	7.18	84,006	Ton	186.00	15,625,000
Silage ^a	2018			28,701	Ton	77.00	2,210,000
	2017			11,600	Ton	45.00	522,000
Total	2018	10,200					17,752,000
	2017	11,700					16,147,000
Corn							
Silage	2018	17,200	27.37	470,764	Ton	47.00	22,126,000
	2017	18,400	28.13	517,592	Ton	41.00	21,221,000
Cotton							
Lint	2018	950	1,285^b	2,543	Bale^c	1.22^d	1,489,000
	2017	860	1,496	2,680	Bale	1.03	1,325,000
Seed	2018			1,018	Ton	252.00	257,000
	2017			1,072	Ton	285.00	306,000
Total	2018	950					1,746,000
	2017	860					1,631,000
Oat							
Hay	2018	4,000	2.98	11,920	Ton	166.00	1,979,000
	2017	2,000	3.91	7,820	Ton	110.00	860,000
Pasture							
Irrigated	2018	810			Acre	150.00	122,000
	2017	1,300			Acre	150.00	195,000
Rangeland	2018	387,000			Acre	25.00	9,675,000
	2017	387,000			Acre	21.00	8,127,000

a/ Alfalfa acreage yields both hay and silage

b/ Pounds

c/ Bale: 480 pounds

d/ Price per pound

FIELD CROPS

Item	Year	PRODUCTION			VALUE		
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Wheat							
Grain	2018	2,000	2.99	5,980	Ton	\$256.00	\$1,531,000
	2017	3,600	2.84	10,224	Ton	\$197.00	2,014,000
Silage	2018	22,900	14.13	232,577	Ton	32.00	10,354,000
	2017	20,600	15.18	312,708	Ton	30.00	9,381,000
Total	2018	24,900					11,885,000
	2017	24,200					11,395,000
Winter Forage	2018	1,200	11.02	13,224	Ton	35.00	463,000
	2017	1,700	10.96	18,632	Ton	31.00	578,000
Miscellaneous ^e	2018	5,500					3,897,000
	2017	5,900					4,981,000
TOTAL	2018	451,760					\$69,645,000
	2017	453,360					65,573,000

e/ Includes grain corn, ryegrass hay & silage, sorghum/milo, sorghum/milo silage, seed crops, sudangrass hay & silage, wheat hay, field and stubble straw.

VEGETABLE CROPS

Item	Year	PRODUCTION			VALUE		
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Tomatoes							
Fresh	2018	800	20.00	16,000	Ton	\$469.00	\$7,504,000
	2017	700	20.34	14,238	Ton	466.00	6,635,000
Processed	2018	5,800	57.63	334,254	Ton	72.00	24,066,000
	2017	5,900	52.73	311,107	Ton	72.00	22,400,000
Total	2018	6,600					31,570,000
	2017	6,600					29,035,000
Miscellaneous ^a	2018	2,200					9,569,000
	2017	4,100					19,287,000
TOTAL	2018	8,800					\$41,139,000
	2017	10,700					48,322,000

a/ Includes carrots, all cabbage, garlic, herbs, melons, onions, all peppers, potatoes, all squash and miscellaneous truck crops

FRUIT & NUT CROPS

Item	Year	PRODUCTION			VALUE		
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Almonds ^a	2018	142,000	1.03	146,260 ^b	Ton	\$4,831.00	\$706,582,000
	2017	135,000	1.11	149,850	Ton	4,695.00	703,546,000
Almond Hulls	2018			286,670	Ton	84.00	24,080,000
	2017			293,706	Ton	68.00	19,972,000
Cherries	2018	400	1.36	544	Ton	5,687.00	3,094,000
	2017	590	3.42	2,018	Ton	4,320.00	8,718,000
Figs, Fresh & Dried	2018	5,400	1.51	8,154	Ton	2,266.00	18,477,000
	2017	5,400	1.48	7,992	Ton	2,064.00	16,495,000
Grapes							
Raisin Varieties							
Crushed	2018	2,800	9.23	25,844	Ton	326.00	8,425,000
	2017	3,800	7.96	30,248	Ton	242.00	7,320,000
Dried	2018	20,200	2.76	55,752	Ton	2,030.00	113,177,000
	2017	18,000	2.96	53,280	Ton	1,761.00	93,826,000
Fresh	2018	800	8.18	6,544	Ton	1,583.00	10,359,000
	2017	730	6.92	5,052	Ton	1,481.00	7,482,000
Table Varieties	2018	2,600	10.87	28,262	Ton	1,782.00	50,363,000
	2017	3,400	9.45	32,130	Ton	1,996.00	64,131,000
Wine Varieties^c							
Red Varieties	2018	22,000	10.15	223,300	Ton	330.00	73,689,000
	2017	22,500	10.02	225,450	Ton	308.00	69,439,000
White Varieties	2018	12,800	12.89	164,992	Ton	313.00	51,642,000
	2017	14,300	11.68	167,024	Ton	298.00	49,773,000
Total Grapes	2018	61,200					307,655,000
	2017	62,730					291,971,000
Olives, Fresh & Oil	2018	780	2.50	1,950	Ton	1,049.00	2,046,000
	2017	820	3.12	2,558	Ton	1,009.00	2,581,000

a/ Meat basis

b/ Reflects total production, including imperfect stock; price weighted accordingly

c/ Includes table grape crushed

FRUIT & NUT CROPS

PRODUCTION

VALUE

Item	Year	Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Oranges	2018	2,800	15.51	43,428	Ton	\$533.00	\$23,147,000
	2017	3,000	15.37	46,110	Ton	460.00	21,211,000
Peaches							
Cling	2018	330	14.62	4,825	Ton	500.00	2,413,000
	2017	260	18.00	4,680	Ton	450.00	2,106,000
Freestone	2018	380	20.06	7,623	Ton	608.00	4,635,000
	2017	490	21.81	10,687	Ton	427.00	4,563,000
Total	2018	710					7,048,000
	2017	750					6,669,000
Pistachios	2018	36,400	1.74	63,336 ^b	Ton	4,683.00	296,602,000
	2017	34,500	1.28	44,160	Ton	4,399.00	194,260,000
Plums, Dried	2018	940	3.41	3,205	Ton	2,281.00	7,311,000
	2017	1,100	2.61	2,871	Ton	2,067.00	5,934,000
Walnuts	2018	2,400	1.59	3,816	Ton	1,522.00	5,808,000
	2017	2,100	1.33	2,793	Ton	2,500.00	6,983,000
Miscellaneous							
Fruits & Nuts ^d	2018	7,800					59,364,000
	2017	7,000					53,998,000
Orchard	2018			6,000	Cord ^e		1,110,000
	2017			5,500	Cord		1,045,000
TOTAL	2018	260,830					\$1,462,324,000
	2017	252,990					1,333,383,000

d/ Includes apples, apricots, berries, grapes for canning, grapefruit, kiwifruit, nectarines, pears, pecans, persimmons, plums, pomegranates, tangelos, tangerines, almond and walnut shells

e/ Cord: 128 Cubic feet



APIARY PRODUCTS

Item	Year	PRODUCTION		VALUE	
		Total	Unit	Per Unit	Total
Apiary Products					
Beeswax	2018	13,885	Pound	\$3.20	\$44,000
	2017	54,000	Pound	3.00	162,000
Honey	2018	294,330	Pound	2.55	751,000
	2017	568,246	Pound	2.09	1,188,000
Pollination	2018	288,000	Colony	195.00	56,160,000
	2017	281,000	Colony	195.00	54,795,000
TOTAL	2018				\$56,955,000
	2017				56,145,000

FOREST PRODUCTS

Item	Year	PRODUCTION		VALUE	
		Production	Unit		Total
Timber	2018	10,400	MBF ^a		\$1,519,000
	2017	3,100	MBF		382,000
Firewood ^b	2018	20,700	Cord ^c		906,000
	2017	8,200	Cord		772,000
TOTAL	2018				\$2,425,000
	2017				1,154,000

a/ MBF: Thousand board feet

b/ Includes: Christmas trees, greenery, pinecones and saw logs

c/ Cord: 128 Cubic feet

NURSERY PRODUCTS

Item	Year	PRODUCTION		VALUE	
		Field Acres	House Sq. Foot		Total
Nursery Stock ^a	2018	310	282,000		\$27,969,000
	2017	350	271,000		29,382,000

a/ Includes grapevines, fruit trees, nut trees and ornamentals

LIVESTOCK AND POULTRY

PRODUCTION

VALUE

Item	Year	Head	Liveweight	Unit	Per Unit	Total
Cattles and Calves ^a	2018	66,900	502,000	CWT^b	\$102.00	\$51,204,000
	2017	79,400	596,000	CWT	106.00	63,176,000
Replacement Heifers ^c	2018	23,800			1,200.00	28,560,000
	2017	28,400			1,250.00	35,500,000
Poultry	2018	5,391,000				26,504,000
	2017	3,261,000				24,259,000
TOTAL	2018					\$106,268,000
	2017					122,935,000

a/ Range and dairy cattle sold for beef

b/ Hundredweight: 100 pounds

c/ Milk cows

LIVESTOCK AND POULTRY PRODUCTS

PRODUCTION

VALUE

Item	Year	Production	Unit	Per Unit	Total
Milk Market ^a	2018	18,262,228	CWT	\$15.29	\$279,229,000
	2017	18,521,180	CWT	16.47	305,045,000
Milk Manufacturing ^a	2018	39,741	CWT	14.22	570,000
	2017	64,182	CWT	18.25	1,183,000
Other Products ^b	2018				11,950,000
	2017				10,327,000
TOTAL	2018				\$291,749,000
	2017				316,555,000

a/ Madera County has 35 dairies, with 68,000 lactating cows

b/ Includes: aquaculture, market eggs, hogs, manure, sheep, lambs and wool

AGRICULTURAL CROP REPORT SUMMARY 2018

Item	Year	Harvested Acres	Total Value
Apiary	2018		\$56,955,000
	2017		56,145,000
Field Crops	2018	453,360	69,645,000
	2017	453,360	65,573,000
Fruit and Nut Crops	2018	260,830	1,462,321,000
	2017	252,990	1,333,383,000
Forest Products	2018		2,425,000
	2017		1,154,000
Livestock and Poultry	2018		106,268,000
	2017		122,935,000
Livestock and Poultry Products	2018		291,749,000
	2017		316,555,000
Nursery Products	2018	310	27,969,000
	2017	350	29,382,000
Vegetable Crops	2018	8,800	41,139,000
	2017	10,700	48,322,000
TOTAL	2018		\$2,058,474,000
	2017		1,973,449,000

MADERA COUNTY

HIGHLIGHTS

County Established	March 11, 1893
County Seat	Madera (city)
Population ^a	157,672
Total County Acreage	1,366,925
2018 Harvested Acreage	721,700
Field Crop Acreage	64,760
Fruit and Nut Acreage	260,830
Nursery Acreage	310
Rangeland Acreage	387,000
Vegetable Acreage	8,800
Forest Acreage	414,300
U. S. Parkland Acreage	83,000
Bordering Counties	
Merced County	Northwest
Mariposa County	North
Mono County	East
Fresno County	South and West
Ranking of Madera County Among Counties of California	
Population ^a	32
Total Acreage	24
Total Agricultural Production ^b	11
Commodity, by Value	
Figs	1
Grapes, Raisin Variety	3
Pistachios	4
Almonds	4
Grapes, Table Variety	5
Cattles & Calves	7
Corn, Silage	7
Milk, Market	8
Grapes, Wine Variety	9
Ranking of Madera County Among Counties of the United States	
Total Agricultural Production ^c	18

a/ US Bureau of Census, 2018 Estimate

b/ County Agricultural Commissioner's Data, 2017

c/ USDA Ag Census, 2017

Madera County Crop Reports from 1921 and 1929 to 2017 are available at:

<https://www.maderacounty.com/government/agricultural-commissioner-weights-and-measures>

2018 Sustainable Agriculture Report 1

Pest Prevention

Pest prevention programs are mandated by the California Food and Agricultural Code to prevent the introduction and spread of pests in California. Pest prevention involves three strata: pest exclusion, pest detection and integrated pest management.

The **Pest Exclusion Program** prevents the introduction of injurious pests that are not of common occurrence in the county.

Over 210 beehive shipments received from Red Imported Fire Ants (RIFA) infested states, with over 86,000 beehives, were inspected for RIFA.

During 2018, eight (8) nursery locations were inspected to ensure pest cleanliness.

Countries receiving agricultural commodities require certification that the commodities are free from potentially injurious pests. Over 4,600 phytosanitary inspections were performed on Madera County commodities, which were exported to 76 countries.

The State of California's **Pest Detection Program** utilizes insect traps and surveys for the detection of foreign pests which may have eluded exclusion efforts. The trapping program targeted multiple pests, including the following:

- | | |
|--|--|
| Asian Citrus Psyllid (<i>Diaphorina citri</i> Kuwayama) | Caribbean Fruit Fly (<i>Anastrepha suspens</i>) |
| European Corn Borer (<i>Ostrinia nubilalis</i>) | Gypsy Moth (<i>Lymentria dispar</i>) |
| Japanese Beetle (<i>Popillia japonica</i>) | Light Brown Apple Moth (<i>Epiphyas postvittana</i>) |
| Mediterranean Fruit Fly (<i>Ceratitis capitata</i>) | Melon Fruit Fly (<i>Dacus cucurbitae</i>) |
| Mexican Fruit Fly (<i>Anastrepha ludens</i>) | Oriental Fruit Fly (<i>Bactrocera dorsalis</i>) |

The **Integrated Pest Control Program** strives to eradicate infestations of new pests before they become widespread. Pink Bollworm (*Pectinophora gossypiella*) a non-established and economically significant pest of cotton, is controlled by post-season plowdown of cotton plants. Pink Bollworm was controlled by post-season plowdown of 950 acres of cotton plantings.



Photos credit: O'Neals-Minarets FFA



Photos credit: Yosemite FFA



2018 Sustainable Agriculture Report 2

Pest Management

The **Glassy-winged Sharpshooter Program** serves to detect and control the vector of Pierce's Disease, a potentially catastrophic disease of vineyards. This program involved the placement of more than 870 traps in both urban and agricultural sites followed by over 11,200 subsequent trap servicings. In addition, incoming shipments of host material and susceptible county plantings were inspected.

Multiple Glassy-winged Sharpshooters were found in Madera County in 2018, which lead to additional placement of delimitation traps followed by subsequent trap servicings and treatments.

Additionally, the California Department of Food and Agriculture (CDFA) released four parasitic wasps (*Cosmocomoidae morganii*, *C. morrilli*, *C. Ashmeadi* and *Ufens spp.*) in 2018 to aid in the control of the Glassy-winged Sharpshooters. Over one thousand (1,000) parasitoids were released in the Wildwood and Rolling Hills areas.

Organic Farming

Sixty-three (63) organic producers and 11 handlers/processors were registered in Madera County in 2018. Utilizing organic principles defined in the California Organic Products Act of 2003, these farms produce a wide array of fruits, nuts, vegetables, livestock, and livestock products. The value of organic production in Madera County in 2018 was **\$53,524,000**.

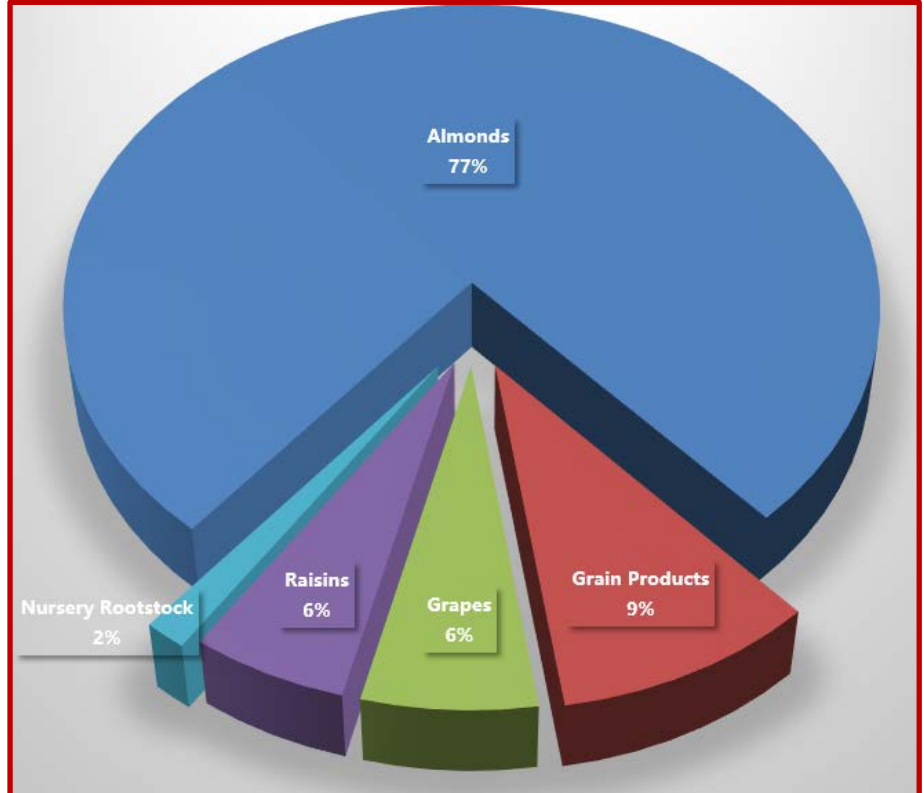


Photos credit: Madera FFA

5 Leading Commodities Exported & 10 Leading Export Countries

Commodity	# of shipments
Almonds	3513
Grain Products	434
Grapes	288
Raisins	258
Nursery Rootstock	70

Export Country	# of Exports
India	1048
Spain	586
Australia	379
Germany	325
Hong Kong	298
Korea, Republic of	193
Italy	178
Viet Nam	178
Netherlands	169
Philippines	154



76 countries received Madera County commodities in 2018

- | | | | |
|--|--|--|--|
| <input type="radio"/> Afghanistan | <input type="radio"/> Estonia | <input type="radio"/> Latvia | <input type="radio"/> Saudi Arabia |
| <input type="radio"/> Algeria | <input type="radio"/> Finland | <input type="radio"/> Lebanon | <input type="radio"/> Serbia |
| <input type="radio"/> Argentina | <input type="radio"/> France | <input type="radio"/> Lithuania | <input type="radio"/> Singapore |
| <input type="radio"/> Australia | <input type="radio"/> Georgia | <input type="radio"/> Macedonia, Former Yugoslav Republic of | <input type="radio"/> South Africa |
| <input type="radio"/> Bahrain | <input type="radio"/> Germany | <input type="radio"/> Malaysia | <input type="radio"/> Spain |
| <input type="radio"/> Belgium | <input type="radio"/> Greece | <input type="radio"/> Mauritius | <input type="radio"/> Sri Lanka |
| <input type="radio"/> Brazil | <input type="radio"/> Guatemala | <input type="radio"/> Mexico | <input type="radio"/> Sweden |
| <input type="radio"/> Bulgaria | <input type="radio"/> Hong Kong | <input type="radio"/> Morocco | <input type="radio"/> Switzerland |
| <input type="radio"/> Canada | <input type="radio"/> Hungary | <input type="radio"/> Myanmar | <input type="radio"/> Taiwan |
| <input type="radio"/> Chile | <input type="radio"/> India | <input type="radio"/> Netherlands | <input type="radio"/> Thailand |
| <input type="radio"/> China | <input type="radio"/> Indonesia | <input type="radio"/> New Zealand | <input type="radio"/> Tunisia |
| <input type="radio"/> Colombia | <input type="radio"/> Iraq | <input type="radio"/> Norway | <input type="radio"/> Turkey |
| <input type="radio"/> Costa Rica | <input type="radio"/> Ireland | <input type="radio"/> Oman | <input type="radio"/> Ukraine |
| <input type="radio"/> Croatia | <input type="radio"/> Israel | <input type="radio"/> Pakistan | <input type="radio"/> United Arab Emirates |
| <input type="radio"/> Cyprus | <input type="radio"/> Italy | <input type="radio"/> Peru | <input type="radio"/> United Kingdom |
| <input type="radio"/> Czech Republic | <input type="radio"/> Japan | <input type="radio"/> Philippines | <input type="radio"/> Uzbekistan |
| <input type="radio"/> Denmark | <input type="radio"/> Jordan | <input type="radio"/> Poland | <input type="radio"/> Viet Nam |
| <input type="radio"/> Dominican Republic | <input type="radio"/> Kazakhstan | <input type="radio"/> Portugal | |
| <input type="radio"/> Egypt | <input type="radio"/> Korea, Republic of | <input type="radio"/> Qatar | |
| <input type="radio"/> El Salvador | <input type="radio"/> Kuwait | | |

RAINFALL - MADERA, CALIFORNIA (1969 - 2018)

YEAR	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1969-70	0.07	0.00	0.13	0.52	1.01	1.45	3.42	0.84	2.09	0.21	0.00	0.19	9.93
1970-71	0.00	0.00	0.00	0.24	1.97	2.85	0.45	0.22	1.01	0.83	1.77	0.00	9.34
1971-72	0.00	0.00	0.02	0.04	0.58	1.72	0.19	0.70	0.00	0.56	0.03	0.05	3.89
1972-73	0.02	0.00	0.14	0.49	4.07	1.40	2.23	3.71	2.98	0.39	0.00	0.02	15.45
1973-74	0.00	0.00	0.00	1.55	1.15	2.36	2.26	0.42	2.32	0.72	0.00	0.00	10.78
1974-75	0.00	0.00	0.00	1.10	0.52	1.54	0.43	1.56	2.17	1.81	0.00	0.00	9.13
1975-76	0.00	0.15	0.19	1.26	0.34	0.10	0.10	3.64	0.64	1.60	0.00	0.00	8.02
1976-77	0.05	0.27	0.94	0.66	0.87	1.18	0.60	0.22	1.05	0.00	0.77	0.00	6.61
1977-78	0.00	0.00	0.00	0.00	0.58	2.36	3.14	4.27	5.04	2.90	0.00	0.00	18.29
1978-79	0.02	0.00	1.61	0.03	3.04	0.54	3.97	3.18	2.14	0.11	0.12	0.00	14.76
1979-80	0.00	0.00	0.00	0.66	1.00	1.50	3.61	3.81	1.50	0.63	0.25	0.00	12.96
1980-81	0.00	0.00	0.00	0.12	0.26	0.58	2.74	0.76	3.42	1.03	0.00	0.00	8.91
1981-82	0.00	0.00	0.00	1.36	1.99	0.81	1.97	1.42	3.44	2.94	0.00	0.20	14.13
1982-83	0.00	0.00	0.84	1.29	3.16	1.78	4.97	3.40	5.12	1.90	0.83	0.00	23.29
1983-84	0.00	0.00	0.22	0.66	2.58	2.45	0.35	1.48	0.59	0.18	0.00	0.00	8.51
1984-85	0.00	0.00	0.00	0.87	2.37	2.12	0.59	0.71	1.65	0.52	0.00	0.34	9.17
1985-86	0.00	0.12	0.11	0.54	2.76	1.03	1.37	5.22	3.16	0.51	0.15	0.00	14.97
1986-87	0.00	0.00	0.43	0.00	0.00	0.97	1.60	2.26	2.91	0.36	0.03	0.02	8.58
1987-88	0.00	0.00	0.00	1.96	0.48	1.52	0.90	0.50	0.59	2.03	0.29	0.03	8.30
1988-89	0.00	0.00	0.00	0.00	1.42	2.04	0.40	1.20	2.13	0.17	0.11	0.00	7.47
1989-90	0.00	0.03	0.94	0.55	0.54	0.00	2.32	1.38	0.71	1.41	2.36	0.00	10.24
1990-91	0.00	0.00	0.04	0.03	0.53	0.64	0.15	1.25	7.11	0.17	0.05	0.01	9.98
1991-92	0.00	0.02	0.00	0.87	0.23	1.08	1.43	2.88	2.13	0.02	0.00	0.00	8.66
1992-93	0.09	0.00	0.00	1.33	0.04	3.08	5.16	2.69	2.92	0.32	0.71	0.43	16.77
1993-94	0.00	0.00	0.00	0.06	0.77	1.39	1.85	1.77	0.43	1.89	2.61	0.00	10.77
1994-95	0.00	0.00	0.13	1.41	1.61	1.36	5.18	0.71	4.82	1.21	0.79	0.48	17.70
1995-96	0.00	0.00	0.00	0.00	0.00	2.42	2.62	3.98	2.34	0.84	0.52	0.32	13.04
1996-97	0.00	0.00	0.00	1.83	2.55	5.02	5.05	0.19	0.00	0.00	0.00	0.00	14.64
1997-98	0.00	0.01	0.13	0.00	2.55	1.65	4.22	5.69	4.26	2.03	1.38	0.74	22.66
1998-99	0.00	0.00	0.88	0.19	0.34	0.95	2.18	1.67	0.63	1.62	0.06	0.05	8.57
1999-00	0.00	0.00	0.00	0.00	0.61	0.08	3.59	6.13	1.35	1.26	0.16	0.46	13.64
2000-01	0.00	0.00	0.27	2.82	0.07	0.13	2.33	1.98	1.71	1.08	0.00	0.00	10.39
2001-02	0.02	0.00	0.02	0.51	1.89	2.42	1.40	0.34	1.14	0.23	0.33	0.22	8.52
2002-03	0.00	0.00	0.00	0.00	2.80	2.85	0.51	1.51	0.64	1.74	0.87	0.00	10.92
2003-04	0.00	0.06	0.00	0.00	0.34	2.88	0.95	2.20	0.56	0.00	0.00	0.00	6.99
2004-05	0.00	0.00	0.00	3.89	1.07	3.67	2.10	3.04	2.59	0.60	3.32	0.00	20.28
2005-06	0.00	0.04	0.01	0.00	0.00	2.49	3.10	0.65	3.80	2.55	0.00	0.00	12.64
2006-07	0.00	0.00	0.00	0.40	0.56	1.40	0.65	1.86	0.57	0.35	0.05	0.00	5.84
2007-08	0.00	0.00	0.15	0.32	0.09	2.13	2.78	2.21	0.00	0.00	0.26	0.00	7.94
2008-09	0.00	0.00	0.00	0.00	1.19	1.27	1.95	3.24	0.83	0.00	0.00	0.00	8.48
2009-10	0.00	0.00	0.06	1.14	0.17	2.69	2.48	2.77	2.04	2.69	0.22	0.00	14.26
2010-11	0.00	0.00	0.00	0.21	2.31	5.40	1.88	1.50	4.17	0.24	0.45	1.41	17.57
2011-12	0.00	0.00	0.00	0.72	0.89	0.08	0.89	0.46	2.92	2.61	0.00	0.12	8.69
2012-13	0.00	0.00	0.00	0.07	1.84	3.42	1.33	0.74	0.12	0.98	0.06	0.00	8.56
2013-14	0.00	0.00	0.02	0.07	0.25	0.23	0.32	2.16	0.48	1.11	0.00	0.00	4.64
2014-15	0.00	0.00	0.04	0.00	1.06	2.41	0.00	0.66	0.01	0.94	0.45	0.00	5.57
2015-16	0.02	0.00	0.14	0.29	1.81	2.24	4.14	0.46	3.84	3.14	0.01	0.02	16.11
2016-17	0.00	0.00	0.00	0.77	1.42	2.22	4.98	3.88	0.60	0.45	0.12	0.00	14.44
2017-18	0.00	0.00	0.10	0.07	0.10	0.09	1.14	0.21	4.75	0.71	0.00	0.00	7.17
2018-19	0.00	0.00	0.00	0.00	2.12	0.87	1.77	2.81	2.08	0.19	1.58	0.00	11.42
Average	0.01	0.01	0.15	0.62	1.20	1.74	2.07	2.01	2.07	1.00	0.41	0.10	11.39

Madera-Liberty FFA began in the spring of 2006 and was officially chartered with the CA FFA Association in 2007. We have grown to a 3 teacher department as well as incorporating members at the middle school level at Ranchos Middle School along with our Liberty High School students.

We currently offer courses in agriscience including Introduction to Agriculture, The Biology of Sustainable Agriculture, Chemistry and Agriscience, and Advanced Interdisciplinary Systems of Agriscience with the 3 high school courses being University of California (UC) A-G approved and the advanced course being designated as Honors. Our Agriculture Mechanics pathway includes Ag Mechanics 1, 2, and Small Engines. Our third current pathway area is Floral Design in which we have a beginning and advanced course - both being UC approved courses.

Within FFA we have students that participate in an array of activities and leadership events. We have students that have served above the chapter level in leadership positions. Our students compete in a variety of public speaking Leadership Development Events. We have Career Development Event teams in the areas of Livestock Evaluation, Veterinary Science, Small Engines, Citrus Judging, and Vine Pruning.

Our students also have an array of Supervised Agriculture Experience projects. These projects include livestock animals that go to our county and district fairs of rabbits, poultry, dairy and meat goats, lambs, hogs, steers, and horses. We have students that also have livestock breeding projects that produce animals for themselves and their fellow FFA members. We have students with a variety of other projects including bees and honey, food processing, development, marketing and sales, commercial fishing, taxidermy services, vineyards, almonds, aquaculture, field work, landscaping, floriculture, and ag mechanics. There is almost an unlimited array of options for students to find an area of interest to gain experiences in.

Our district is also in the process of developing a school farm and agriculture complex. These facilities will include mechanics and fabrication shops, science classrooms, animal science classroom, horticulture and floral design classrooms, food science classroom, green houses, shade house, and livestock facilities. We are very excited for the additional opportunities that these facilities will provide for our students.

By: Anne Deniz, Liberty High School Ag Department

Photos credit: Madera-Liberty FFA





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<https://www.maderacounty.com/government/agricultural-commissioner-weights-and-measures>