

Madera County

Crop & Livestock Report

2015



Madera County The Center of California

The geographic center of California is located in Madera County. The exact center is close to the Madera County community of North Fork, some 40 miles east of the city of Madera. A monument marks the site.

A planting memorializing that the geographic center of California is in Madera County, is visible for travelers on Highway 99. In the median of Highway 99, north of the Avenue 9 ramps, is a palm tree to the south and a conifer tree to the north, signifying that the north and south divide of California resides in Madera County.

**For more information, you may go to <http://www.north-fork-chamber.com/> or <http://www.yosemitethisyear.com/>*





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

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

It is my pleasure to present the 2015 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 2015, the gross value of all production was \$2,017,446,000; this is a decrease of \$248,435,000 (10.96%) compared to 2014 production. This is mainly due to a decrease in some commodity prices as market prices stabilized.

Crop values can vary from year to year due to the variables of production, market and weather conditions. Almonds (nut meats & hulls) retained the top crop rank for the sixth year in a row, with a value of \$787,609,000; although there was a price decrease per ton from 2014, this was somewhat offset by an increase in bearing acreage. Grapes overtook milk for 2nd place, and milk claimed the third spot. Pistachios and Cattle & Calves came in at the 4th and 5th rankings.

Although a decrease was seen in Madera County farmgate values in 2015 compared to 2014, it's of note that for the 2nd year in a row, the production value exceeds two billion dollars. It's outstanding that Madera County is now ranked number nine among the fifty-eight California counties in total agricultural production.

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 2015 Madera County Agricultural and Livestock Report, and previous reports, please visit our website online at <http://madera-county.com/agcommissioner/cropreports/index.html>.

Respectfully submitted,

A handwritten signature in blue ink that reads "Stevie McNeill".

Stevie McNeill
Agricultural Commissioner/Sealer

MADERA COUNTY STAFF

Madera County Board of Supervisors

Brett Frazier

District 1

David Rogers

District 2

Rick Farinelli

District 3 /Chairman

Max Rodriguez

District 4

Tom Wheeler

District 5

County Administrative Officer

Eric Fleming

Agricultural Commissioner/ Sealer of Weights & Measures

Stephanie "Stevie" McNeill

Deputy Agricultural Commissioner/Sealer

Heidi Wong

Supervising Agricultural & Standards Inspector

Gavin Iacono

Agricultural & Standards Inspectors

Judy Cumming

Sharon Seslowe

Molly Glover

Alison Steen

Lance B. Hofer

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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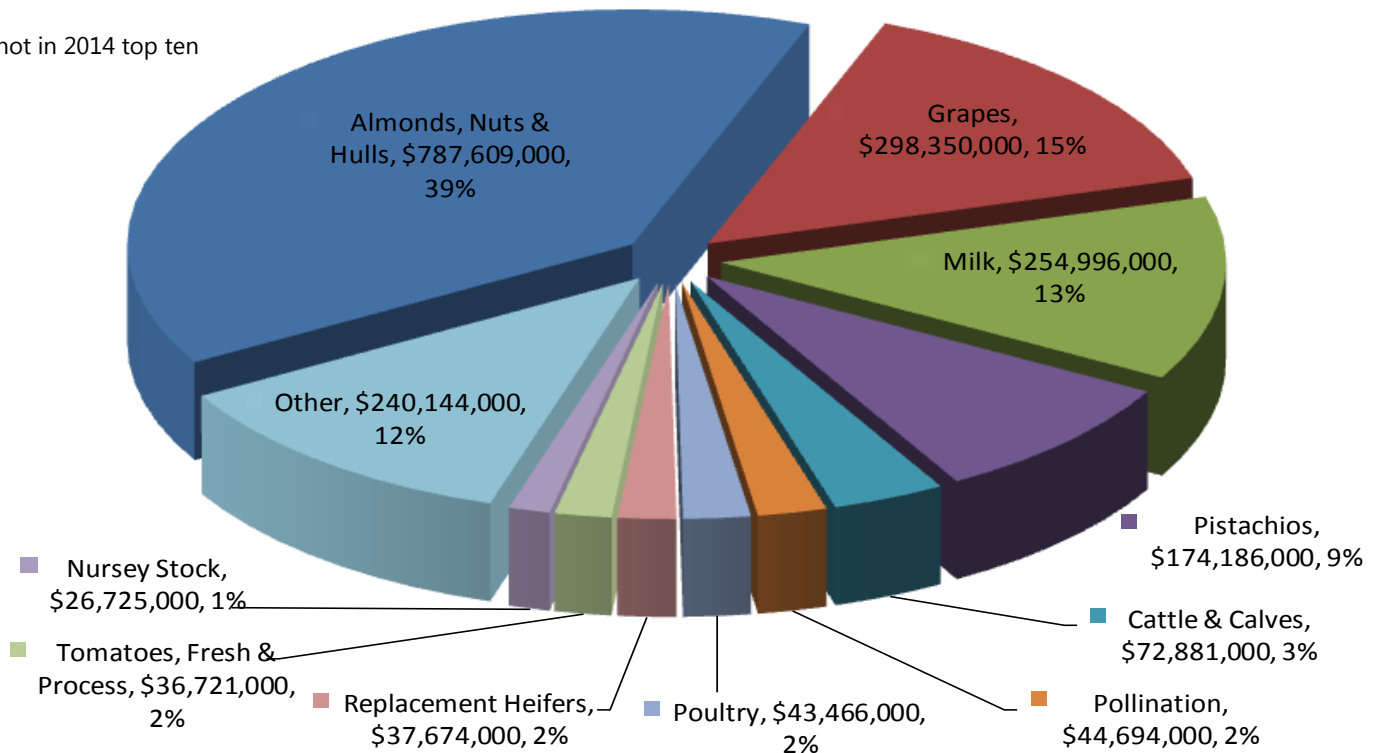
TEN LEADING CROPS

MADERA COUNTY 2015

Commodity	2015 Rank	2015 Dollar Value	2014 Rank
Almonds, Nuts & Hulls	1	\$787,609,000	1
Grapes	2	\$298,350,000	3
Milk	3	\$254,996,000	2
Pistachios	4	\$174,186,000	4
Cattle & Calves	5	\$72,881,000	5
Pollination	6	\$44,694,000	7
Poultry	7	\$43,466,000	6
Replacement Heifers	8	\$37,674,000	8
Tomatoes, Fresh & Process	9	\$36,721,000	*
Nursery Stock	10	\$26,725,000	*

Diversity, which serves to strengthen the agricultural economy of Madera County, is evident in this listing of our Ten Leading Crops, which include fruit and nut crops, milk, field crops, nursery stock, poultry, pollination, and dairy and beef cattle. The wide range of commodities produced in our county is further underscored by that segment on the chart entitled "Other," which includes such diverse products as alfalfa, cotton, honey, citrus and stone fruits, beeswax and walnuts.

* not in 2014 top ten



Field Crops

PRODUCTION					VALUE		
Item	Year	Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Alfalfa							
Hay	2015	16,000	7.11	113,760	Ton	\$188.00	\$21,387,000
	2014	16,000	6.80	108,800	Ton	231.00	25,133,000
Silage ^a	2015			28,120	Ton	53.00	1,490,000
	2014			20,287	Ton	70.00	1,420,000
Total	2015	16,000					22,877,000
	2014	16,000					26,553,000
Corn							
Grain	2015	300	4.50	1,350	Ton	220.00	297,000
	2014	600	7.55	4,530	Ton	230.00	1,042,000
Silage	2015	16,600	26.75	444,050	Ton	53.00	23,535,000
	2014	18,300	25.86	473,238	Ton	59.00	27,921,000
Total	2015	16,900					23,832,000
	2014	18,900					28,963,000
Cotton							
Lint	2015	700	2,013 ^b	2,936	Bale ^c	0.91 ^d	1,282,000
	2014	740	1,863	2,872	Bale	0.95	1,310,000
Seed	2015			1,174	Ton	296.00	348,000
	2014			1,149	Ton	300.00	345,000
Total	2015	700					1,630,000
	2014	740					1,655,000
Oat							
Hay	2015	1,100	3.33	3,663	Ton	132.00	484,000
	2014	800	3.53	2,824	Ton	185.00	522,000
Pasture							
Irrigated	2015	1,300			Acre	150.00	195,000
	2014	1,500			Acre	150.00	225,000
Rangeland	2015	390,000			Acre	13.00	5,070,000
	2014	389,900			Acre	8.50	3,314,000

a/ Alfalfa acreage yields both hay and silage

b/ Pounds

c/ Bale: 480 pounds

d/ Price per pound

Field Crops

PRODUCTION

VALUE

Item	Year	Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Wheat							
Grain	2015	2,200	4.00	8,800	Ton	\$220.00	\$1,936,000
	2014	2,600	3.01	7,826	Ton	285.00	2,230,000
Silage	2015	22,400	13.15	294,560	Ton	43.00	12,666,000
	2014	18,200	14.86	270,452	Ton	38.00	10,277,000
Total	2015	24,600					14,602,000
	2014	20,800					12,507,000
Winter Forage	2015	1,900	14.32	27,208	Ton	43.00	1,170,000
	2014	3,300	17.46	57,618	Ton	48.00	2,766,000
Miscellaneous^e	2015	3,100					3,710,000
	2014	2,300					3,587,000
TOTAL	2015	455,600					\$73,570,000
	2014	454,200					80,092,000

e/ Includes corn nuts, dried beans, sorghum/milo silage, seed crops, sudangrass, wheat hay, field and stubble straw.

Vegetable Crops

PRODUCTION

VALUE

Item	Year	Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Tomatoes							
Fresh	2015	600	25.19	15,114	Ton	\$456.00	\$6,892,000
	2014	600	16.25	9,750	Ton	525.00	5,119,000
Processed	2015	7,600	49.68	377,579	Ton	79.00	29,829,000
	2014	5,600	58.65	328,440	Ton	79.00	25,947,000
Total	2015	8,200					36,721,000
	2014	6,200					31,066,000
Miscellaneous^a	2015	2,400					13,816,000
	2014	2,000					18,212,000
TOTAL	2015	10,600					\$50,537,000
	2014	8,200					49,278,000

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

FRUIT & NUT CROPS

PRODUCTION

VALUE

Item	Year	Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Almonds^a	2015	115,000	0.95	109,250^b	Ton	\$6,976.00	\$762,128,000
	2014	106,000	0.94	99,640	Ton	7,455.00	742,816,000
Almond Hulls	2015			214,130	Ton	119.00	25,481,000
	2014			195,294	Ton	145.00	28,318,000
Cherries	2015	590	5.01	2,956	Ton	4,800.00	14,189,000
	2014	480	0.42	202	Ton	6,983.00	1,411,000
Figs, Fresh & Dried	2015	5,500	1.93	10,615	Ton	2,290.00	24,308,000
	2014	5,600	1.73	9,688	Ton	2,037.00	19,734,000
Grapes							
Raisin Varieties							
Crushed	2015	2,600	10.91	28,366	Ton	202.00	5,730,000
	2014	6,200	7.25	44,950	Ton	213.00	9,574,000
Dried	2015	20,500	3.05	62,525	Ton	1,484.00	92,787,000
	2014	20,700	3.12	64,584	Ton	1,692.00	109,276,000
Fresh	2015	900	9.82	8,838	Ton	1,392.00	12,302,000
	2014	920	9.79	9,007	Ton	1,484.00	13,366,000
Table Varieties	2015	3,100	9.10	28,210	Ton	1,873.00	52,837,000
	2014	2,900	9.52	27,608	Ton	1,929.00	53,256,000
Wine Varieties^c							
Red	2015	23,500	11.32	266,020	Ton	311.00	82,732,000
Varieties	2014	24,200	9.79	236,918	Ton	347.00	82,211,000
White	2015	15,500	11.60	179,800	Ton	289.00	51,962,000
Varieties	2014	16,100	9.61	154,721	Ton	322.00	49,820,000
Total Grapes	2015	66,100					298,350,000
	2014	71,020					317,503,000
Olives	2015	740	4.20	3,108	Ton	682.00	2,120,000
Fresh & Oil	2014	590	1.54	909	Ton	458.00	416,000

a/ Meat basis

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

c/ Includes table grape crushed

FRUIT & NUT CROPS

Item	Year	PRODUCTION			Unit	VALUE	
		Harvested Acreage	Per Acre	Total		Per Unit	Total
Oranges	2015	2,900	15.27	44,283	Ton	\$469.00	\$20,769,000
	2014	2,900	13.08	37,932	Ton	456.00	17,297,000
Peaches							
Cling	2015	280	16.00	4,480	Ton	460.00	2,061,000
	2014	220	14.20	3,124	Ton	388.00	1,212,000
Freestone	2015	320	17.22	5,510	Ton	946.00	5,212,000
	2014	470	17.97	8,446	Ton	514.00	4,341,000
Total	2015	600					7,273,000
	2014	690					5,553,000
Pistachios	2015	32,700	0.92	30,084^b	Ton	5,790.00	174,186,000
	2014	31,000	1.58	48,980	Ton	5,956.00	291,725,000
Plums, Dried	2015	920	1.88	1,730	Ton	2,139.00	3,700,000
	2014	890	1.55	1,380	Ton	2,347.00	3,239,000
Walnuts	2015	1,900	1.70	3,221	Ton	1,822.00	5,869,000
	2014	1,900	1.46	2,778	Ton	3,960.00	11,001,000
Miscellaneous							
Fruits & Nuts^d	2015	8,300					63,658,000
	2014	8,900					66,688,000
Orchard	2015			5,500	Cord^e		908,000
Firewood	2014			6,000	Cord		930,000
TOTAL	2015	235,250					\$1,402,939,000
	2014	229,970					1,506,631,000

d/ Includes apples, apricots, berries, kiwis, nectarines, pears, pecans, persimmons, plums, pomegranates, tangelos, tangerines, almond and walnut shells

e/ Cord: 128 Cubic feet

APIARY PRODUCTS

PRODUCTION				VALUE	
Item	Year	Total	Unit	Per Unit	Total
Apiary Products					
Beeswax	2015	82,773	Pound	\$3.40	\$281,000
	2014	117,048	Pound	3.60	421,000
Honey	2015	712,271	Pound	2.20	1,567,000
	2014	969,545	Pound	2.56	2,482,000
Pollination	2015	234,000	Colony	191.00	44,694,000
	2014	216,000	Colony	179.00	38,664,000
TOTAL	2015				\$46,542,000
	2014				41,567,000

FOREST PRODUCTS

Item	Year	PRODUCTION		VALUE	
		Production	Unit		Total
Timber	2015	8,071	MBF^a		\$721,000
	2014	2,348	MBF		240,000
Firewood^b	2015	5,800	Cord^c		334,000
	2014	5,447	Cord		261,000
TOTAL	2015				\$1,055,000
	2014				501,000

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	2015	270	229,000		\$26,725,000
	2014	320	199,000		23,178,000

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	2015	76,200	547,980	CWT^b	\$133.00	\$72,881,000
	2014	76,400	532,200	CWT	115.00	61,203,000
Replacement Heifers^c	2015	27,300			1,380.00	37,674,000
	2014	27,700			1,345.00	37,257,000
Poultry	2015					43,466,000
	2014					44,140,000
TOTAL	2015					\$154,021,000
	2014					142,600,000

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	2015	18,361,444	CWT	\$13.86	\$254,490,000
	2014	18,858,570	CWT	21.93	413,568,000
Milk Manufacturing^a	2015	29,378	CWT	17.22	506,000
	2014	48,333	CWT	22.97	1,110,000
Other Products^b	2015				7,061,000
	2014				7,356,000
TOTAL	2015				\$262,057,000
	2014				422,034,000

a/ Madera County has 41 dairies, with 70,909 lactating cows

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

AGRICULTURAL CROP REPORT SUMMARY

MADERA COUNTY 2015

Item	Year	Harvested	Total Value
Apiary	2015		\$46,542,000
	2014		41,567,000
Field Crops	2015	455,600	73,570,000
	2014	454,240	80,092,000
Fruit and Nut Crops	2015	235,250	1,402,939,000
	2014	229,970	1,506,631,000
Forest Products	2015		1,055,000
	2014		501,000
Livestock and Poultry	2015		154,021,000
	2014		142,600,000
Livestock and Poultry Products	2015		262,057,000
	2014		422,034,000
Nursery Products	2015	270	26,725,000
	2014	320	23,178,000
Vegetable Crops	2015	10,600	50,537,000
	2014	8,200	49,278,000
TOTAL	2015		\$2,017,446,000
	2014		2,265,881,000

MADERA COUNTY HIGHLIGHTS

County Established	March 11, 1893
County Seat	Madera (city)
Population ^a	154,998
Total County Acreage	1,366,925
2014 Harvested Acreage	701,720
Field Crop Acreage	65,600
Fruit and Nut Acreage	235,250
Nursery Acreage	270
Rangeland Acreage	390,000
Vegetable Acreage	10,600
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	33
Total Acreage	24
Total Agricultural Production ^b	9
Commodity, by Value	
Figs	1
Grapes, Raisin Variety	2
Pistachios	4
Almonds	5
Grapes, Table Variety	5
Grapes, Wine Variety	7
Cattles & Calves	7
Corn, Silage	7
Milk, Market	8
Olives	9
Ranking of Madera County Among Counties of the United States	
Total Agricultural Production ^c	21

a/ US Bureau of Census, 2015 Estimate

b/ County Agricultural Commissioner's Data, 2014

c/ USDA Ag Census, 2007

Madera County Crop Reports from 2001 to 2015 are available at:
<http://www.madera-county.com/index.php/publications/crop-reports>

2015 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 56 beehive shipments received from Red Imported Fire Ants (RIFA) infested states, with over 26,800 beehives inspected for RIFA.

Countries receiving agricultural commodities require certification that the commodities are free from potentially injurious pests. Over 4,200 phytosanitary inspections were performed on Madera County commodities, which were exported to over 70 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:

Caribbean Fruit Fly (*Anastrepha suspens*)

European Corn Borer (*Ostrinia nubilalis*)

Gypsy Moth (*Lymentria dispar*)

Japanese Beetle (*Popillia japonica*)

Light Brown Apple Moth (*Epiphyas postvittana*)

Mediterranean Fruit Fly (*Ceratitis capitata*)

Melon Fruit Fly (*Dacus cucurbitae*)

Mexican Fruit Fly (*Anastrepha ludens*)

Oriental Fruit Fly (*Bactrocera dorsalis*)

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 over 700 acres of cotton plantings.

2015 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 traps in both urban and agricultural sites followed by subsequent trap servicing. In addition, incoming shipments of host material and susceptible county plantings were inspected.

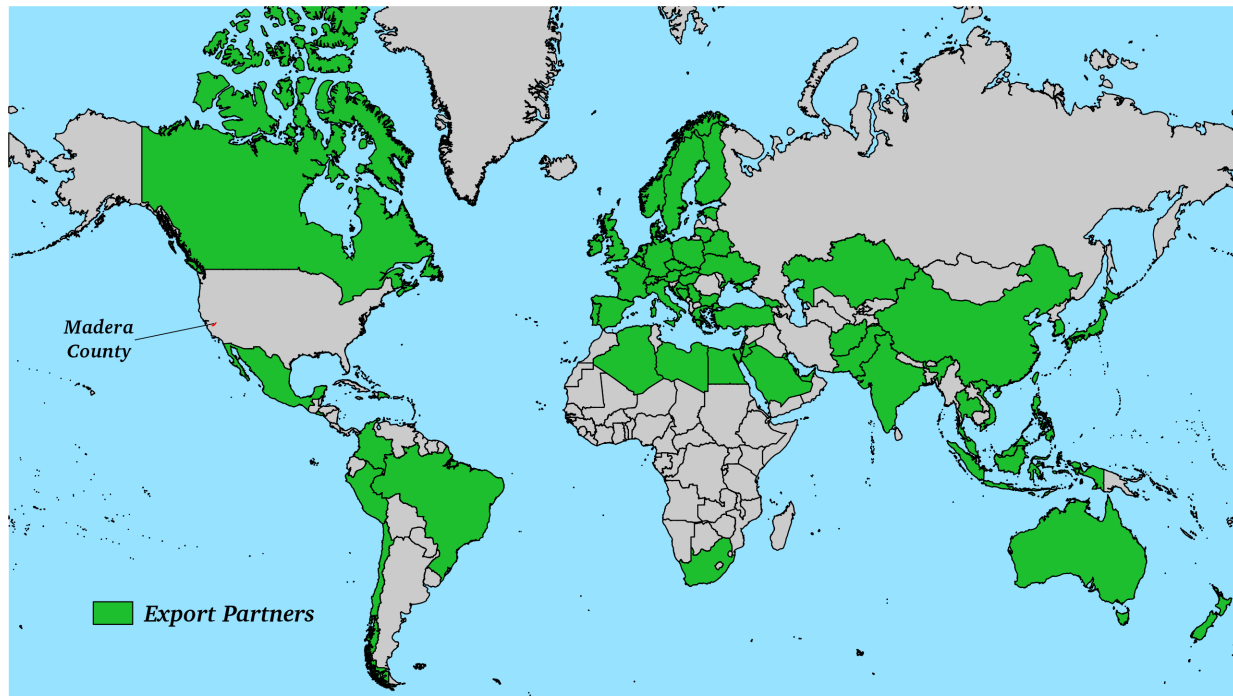
Multiple Glassy-winged Sharpshooters were found in Madera County in 2015, which lead to additional placement of delimitation traps also followed by subsequent trap servicing.

Additionally, the California Department of Food and Agriculture (CDFA) released three parasitic wasps (*Gonatocerus triguttatus*, *G. morgani* and *G. morrilli*) in 2015 to aid in the control of the Glassy-winged Sharpshooters. Over one hundred and fifty parasitoids were released in the Wildwood and Rolling Hills areas.

Fifty **Organic Farms**, totaling over 29,800 acres, which includes 18,400 acres in rangeland and 3,000 acres in irrigated pasture, and 7 handlers were registered in Madera County in 2015. Utilizing organic principles defined in the California Organic Products Act of 2003, these farms produce a wide array of commodities, such as:

alfalfa, almonds, apples, apricots, artichokes, basil, dried beans, green beans, beets, berries, broccoli, cabbage, cantaloupe, carrots, cauliflower, chard, cherries, cilantro, collards greens, coriander, sweet corn, cucumbers, daikon, dill, fennel, figs, garlic, gourds, grapes (table, raisin, wine), grapefruit, hay, herbs, kale, kiwifruit, kohlrabi, leeks, lemons, lettuce, livestock, mustard greens, oats, okra, olives, onions, oranges, parsley, pasture, peas, peppers, persimmons, pistachio, plums, pomegranates, popcorn, potatoes, poultry, prunes, pumpkins, radish, rutabagas, seed crops, spinach, squash, tomatillos, tomatoes, turnips, walnuts, watermelons, and wheat.

The value of organic production in Madera County in 2015 was **\$41,092,000.**



Countries Receiving Madera County Commodities:

Afghanistan	Dominican Republic	Jordan	Qatar
Algeria	Egypt	Kazakhstan	Saudi Arabia
Australia	EL Salvador	Korea, Republic of	Serbia
Austria	Estonia	Kuwait	Singapore
Bahrain	Finland	Lebanon	Slovakia
Belarus	France	Libya	South Africa
Belgium	French Polynesia	Lithuania	Spain
Bosnia and Herzegovina	Georgia	Malaysia	Sweden
Brazil	Germany	Mauritius	Switzerland
Bulgaria	Greece	Mexico	Taiwan
Canada	Hong Kong	Netherlands	Thailand
Chile	Hungary	New Zealand	Trinidad and Tobago
China	India	Norway	Turkey
Colombia	Indonesia	Pakistan	Ukraine
Croatia	Ireland	Peru	United Arab Emirates
Cyprus	Israel	Philippines	United Kingdom
Czech Republic	Italy	Poland	Vietnam
Denmark	Japan	Portugal	

Madera County Commodities Exported:

Almonds	Masa (Corn Flour)	Raisins
Figs	Pistachios	Tillandsia (Plants)
Grapes	Plums	Walnuts
Kiwifruit	Prunes	

RAINFALL - MADERA, CALIFORNIA (1966 - 2015)

YEAR	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1966-67	0.07	0.00	0.09	0.00	1.90	3.29	3.51	0.02	1.72	5.47	0.20	0.45	16.72
1967-68	0.00	0.00	0.10	0.02	1.37	1.45	0.84	1.57	1.58	1.02	0.31	0.00	8.26
1968-69	0.00	0.03	0.00	1.22	2.26	3.24	5.69	4.37	1.60	1.74	0.02	0.00	20.17
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
Average	0.01	0.01	0.15	0.63	1.24	1.83	2.12	1.99	2.02	1.13	0.39	0.11	11.63

50 YEAR AVERAGE RAINFALL



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