

# 2017 CROP & LIVESTOCK REPORT



**MADERA COUNTY**



## MADERA COUNTY STAFF

### Madera County Board of Supervisors

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

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**Eric Fleming**

### Agricultural Commissioner/Sealer of Weights & Measures

**Stephanie "Stevie" McNeill**

### Deputy Agricultural Commissioner/Sealer

**Heidi Wong**

### Supervising Agricultural & Standards Inspector

**Page Berquist**      **Bill Griffin**

### Agricultural & Standards Inspectors

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**Molly Glover**      **Alison Steen**

**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**



# 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

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

It is my pleasure to present the 2017 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 2017, the gross value of all production was \$1,973,449,000; this is an increase of \$153,960,000 (8.46%) compared to 2016 production. This is a sign of market prices continuing to stabilize in the past two years. Madera County is ranked 11<sup>th</sup> 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 eighth year in a row, with a value of \$723,518,000, a 21.9% increase from 2016. This reflects an increase in bearing acreage, yields and price per ton. Milk retained the second place, with grapes claiming the third spot. Pistachios and Cattle & Calves came in at the 4<sup>th</sup> and 5<sup>th</sup> rankings.

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 2017 Madera County Agricultural and Livestock Report, and previous reports, please visit our website online at <https://www.maderacounty.com/government/agricultural-commissioner-weights-and-measures/annual-crop-reports>

Respectfully submitted,

Stevie McNeill  
Agricultural Commissioner/Sealer

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# TEN LEADING CROPS

## MADERA COUNTY 2017

Commodity	2017 Rank	2017 Dollar Value	2016 Rank
Almonds, Nuts & Hulls	1	\$723,518,000	1
Milk	2	\$306,228,000	2
Grapes	3	\$291,971,000	3
Pistachios	4	\$194,260,000	4
Cattle & Calves	5	\$63,176,000	5
Pollination	6	\$54,795,000	6
Replacement Heifers	7	\$35,500,000	7
Nursery Stock	8	\$29,382,000	8
Tomatoes, Fresh & Process	9	\$29,035,000	9
Poultry	10	\$24,259,000	*

\* not in 2016 top ten

### Madera County's 1967 Million Dollar Crops: 50 Years Ago

"MILLION DOLLAR CROPS"	
1967	
Grapes	\$ 14,401,000
Cotton	12,573,000
Cattle & Calves	12,375,000
Alfalfa	7,924,000
Milk	7,259,000
Turkeys	5,682,000
Pasture	3,495,000
Barley	1,863,000
Peaches	1,830,000
Potatoes	1,450,000
Corn	1,400,000
Broilers & Fryers	1,303,000
Sorghum Grain	1,008,000

TIMBER CUT IN MADERA COUNTY				
VARIETY	YEAR	GOVERNMENT LAND	PRIVATE LAND	TOTAL M.B.F.
Ponderosa & Jeffrey Pine	1967	15,353	xx	15,353
Sugar Pine	1967	11,510	xx	11,510
Red & White Fir	1967	25,333	723	26,056
Incense Cedar	1967	1,376	xx	1,376
Lodgepole Pine	1967	333	xx	333
Miscellaneous*	1967	1,032	870	1,902
TOTALS	1967	54,937	1,593	56,530

\*Miscellaneous includes salvage of all species.  
The known amount of timber cut in Madera County is included as an item of interest, as it contributes much to the economy of our county.

# FIELD CROPS

Item	Year	PRODUCTION			VALUE		
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
<b>Alfalfa</b>							
Hay	2017	11,700	7.18	84,006	Ton	\$186.00	\$15,625,000
	2016	13,100	7.24	94,844	Ton	158.00	14,985,000
Silage <sup>a</sup>	2017			11,600	Ton	45.00	522,000
	2016			21,265	Ton	49.00	1,042,000
Total	2017	11,700					16,147,000
	2016	13,100					16,027,000
<b>Corn</b>							
Grain	2017	300	5.62	1,686	Ton	260.00	438,000
	2016	300	4.13	1,239	Ton	181.00	224,000
Silage	2017	18,400	28.13	517,592	Ton	41.00	21,221,000
	2016	18,000	25.60	460,800	Ton	39.00	17,971,000
Total	2017	18,700					21,659,000
	2016	18,300					18,195,000
<b>Cotton</b>							
Lint	2017	860	1,496 <sup>b</sup>	2,680	Bale <sup>c</sup>	1.03 <sup>d</sup>	1,325,000
	2016	630	1,634	2,145	Bale	0.81	834,000
Seed	2017			1,072	Ton	285.00	306,000
	2016			858	Ton	290.00	249,000
Total	2017	860					1,631,000
	2016	630					1,083,000
<b>Oat</b>							
Hay	2017	2,000	3.91	7,820	Ton	110.00	860,000
	2016	1,800	3.20	5,760	Ton	92.00	530,000
<b>Pasture</b>							
Irrigated	2017	1,300			Acre	150.00	195,000
	2016	1,800			Acre	150.00	270,000
Rangeland	2017	387,000			Acre	21.00	8,127,000
	2016	387,000			Acre	22.00	8,514,000

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
<b>Wheat</b>							
Grain	2017	3,600	2.84	10,224	Ton	\$197.00	\$2,014,000
	2016	2,000	2.89	5,780	Ton	200.00	1,156,000
Silage	2017	20,600	15.18	312,708	Ton	30.00	9,381,000
	2016	21,300	13.68	291,384	Ton	31.00	9,033,000
Total	2017	24,200					11,395,000
	2016	23,300					10,189,000
Winter Forage	2017	1,700	10.96	18,632	Ton	31.00	578,000
	2016	1,900	9.33	17,727	Ton	29.00	514,000
Miscellaneous <sup>e</sup>	2017	5,900					4,981,000
	2016	2,400					3,238,000
<b>TOTAL</b>	2017	453,360					\$65,573,000
	2016	450,230					58,560,000

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

## VEGETABLE CROPS

Item	Year	PRODUCTION			VALUE		
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
<b>Tomatoes</b>							
Fresh	2017	700	20.34	14,238	Ton	\$466.00	\$6,635,000
	2016	500	19.62	9,810	Ton	462.00	4,532,000
Processed	2017	5,900	52.73	311,107	Ton	72.00	22,400,000
	2016	5,700	55.31	315,267	Ton	75.00	23,645,000
Total	2017	6,600					29,035,000
	2016	6,200					28,177,000
Miscellaneous <sup>a</sup>	2017	4,100					19,287,000
	2016	3,700					18,962,000
<b>TOTAL</b>	2017	10,700					\$48,322,000
	2016	9,900					47,139,000

a/ Includes artichokes, 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 <sup>a</sup>	2017	135,000	1.11	149,850 <sup>b</sup>	Ton	\$4,695.00	\$703,546,000
	2016	125,000	1.02	127,500	Ton	4,498.00	573,495,000
Almond Hulls	2017			293,706	Ton	68.00	19,972,000
	2016			249,900	Ton	80.00	19,992,000
Cherries	2017	590	3.42	2,018	Ton	4,320.00	8,718,000
	2016	590	3.66	2,159	Ton	3,873.00	8,362,000
Figs, Fresh & Dried	2017	5,400	1.48	7,992	Ton	2,064.00	16,495,000
	2016	5,600	1.65	9,240	Ton	2,353.00	21,742,000
<b>Grapes</b>							
<b>Raisin Varieties</b>							
Crushed	2017	3,800	7.96	30,248	Ton	242.00	7,320,000
	2016	3,400	8.76	29,784	Ton	199.00	5,927,000
Dried	2017	18,000	2.96	53,280	Ton	1,761.00	93,826,000
	2016	19,200	3.09	59,328	Ton	1,096.00	65,023,000
Fresh	2017	730	6.92	5,052	Ton	1,481.00	7,482,000
	2016	800	9.25	7,400	Ton	1,470.00	10,878,000
Table Varieties	2017	3,400	9.45	32,130	Ton	1,996.00	64,131,000
	2016	3,500	9.13	31,955	Ton	1,790.00	57,199,000
<b>Wine Varieties<sup>c</sup></b>							
Red Varieties	2017	22,500	10.02	225,450	Ton	308.00	69,439,000
	2016	23,000	10.78	247,940	Ton	327.00	81,076,000
White Varieties	2017	14,300	11.68	167,024	Ton	298.00	49,773,000
	2016	14,300	11.97	171,171	Ton	295.00	50,495,000
Total Grapes	2017	62,730					291,971,000
	2016	64,200					270,598,000
Olives	2017	820	3.12	2,558	Ton	1,009.00	2,581,000
	Fresh & Oil 2016	820	2.40	1,968	Ton	1,500.00	2,952,000

a/ Meat basis

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

c/ Includes table grape crushed



# FRUIT & NUT CROPS

Item	Year	PRODUCTION			VALUE		
		Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Oranges	2017	3,000	15.37	46,110	Ton	\$460.00	\$21,211,000
	2016	3,000	15.26	45,780	Ton	475.00	21,746,000
<b>Peaches</b>							
Cling	2017	260	18.00	4,680	Ton	450.00	2,106,000
	2016	210	15.73	3,303	Ton	507.00	1,675,000
Freestone	2017	490	21.81	10,687	Ton	427.00	4,563,000
	2016	410	25.99	10,656	Ton	469.00	4,998,000
Total	2017	750					6,669,000
	2016	620					6,673,000
Pistachios	2017	34,500	1.28	44,160 <sup>b</sup>	Ton	4,399.00	194,260,000
	2016	33,500	1.75	58,625	Ton	3,985.00	233,621,000
Plums, Dried	2017	1,100	2.61	2,871	Ton	2,067.00	5,934,000
	2016	1,000	3.17	3,170	Ton	2,432.00	7,709,000
Walnuts	2017	2,100	1.33	2,793	Ton	2,500.00	6,983,000
	2016	2,000	1.74	3,480	Ton	1,778.00	6,187,000
<b>Miscellaneous</b>							
Fruits & Nuts <sup>d</sup>	2017	7,000					53,998,000
	2016	7,500					71,461,000
Orchard	2017			5,500	Cord <sup>e</sup>		1,045,000
Firewood	2016			6,000	Cord		1,110,000
<b>TOTAL</b>	2017	<b>252,990</b>					<b>\$1,333,383,000</b>
	2016	<b>243,830</b>					<b>1,245,648,000</b>

d/ Includes apples, apricots, berries, 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
<b>Apiary Products</b>					
Beeswax	2017	54,000	Pound	\$3.00	\$162,000
	2016	44,133	Pound	3.40	150,000
Honey	2017	568,246	Pound	2.09	1,188,000
	2016	555,020	Pound	1.85	1,027,000
Pollination	2017	281,000	Colony	195.00	54,795,000
	2016	254,000	Colony	189.00	48,006,000
<b>TOTAL</b>	2017				<b>\$56,145,000</b>
	2016				<b>49,183,000</b>

## FOREST PRODUCTS

Item	Year	PRODUCTION		VALUE	
		Production	Unit		Total
Timber	2017	3,100	MBF <sup>a</sup>		\$382,000
	2016	4,400	MBF		396,000
Firewood <sup>b</sup>	2017	8,200	Cord <sup>c</sup>		772,000
	2016	6,700	Cord		452,000
<b>TOTAL</b>	2017				<b>\$1,154,000</b>
	2016				<b>848,000</b>

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 <sup>a</sup>	2017	350	271,000		\$29,382,000
	2016	350	257,000		29,977,000

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

## LIVESTOCK AND POULTRY

Item	Year	PRODUCTION			VALUE	
		Head	Liveweight	Unit	Per Unit	Total
Cattles and Calves <sup>a</sup>	2017	79,400	596,000	CWT <sup>b</sup>	\$106.00	\$63,176,000
	2016	76,000	547,170	CWT	114.00	62,377,000
Replacement Heifers <sup>c</sup>	2017	28,400			1,250.00	35,500,000
	2016	27,000			1,200.00	32,400,000
Poultry	2017	3,261,000				24,259,000
	2016	3,431,000				14,141,000
<b>TOTAL</b>	2017					<b>\$122,935,000</b>
	2016					108,918,000

a/ Range and dairy cattle sold for beef

b/ Hundredweight: 100 pounds

c/ Milk cows

## LIVESTOCK AND POULTRY PRODUCTS

Item	Year	PRODUCTION		VALUE	
		Production	Unit	Per Unit	Total
Milk Market <sup>a</sup>	2017	18,521,180	CWT	\$16.47	\$305,045,000
	2016	18,195,884	CWT	14.92	271,483,000
Milk Manufacturing <sup>a</sup>	2017	64,182	CWT	18.25	1,183,000
	2016	21,906	CWT	15.20	333,000
Other Products <sup>b</sup>	2017				10,327,000
	2016				7,400,000
<b>TOTAL</b>	2017				<b>\$316,555,000</b>
	2016				279,216,000

a/ Madera County has 37 dairies, with 81,000 lactating cows

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

# AGRICULTURAL CROP REPORT SUMMARY 2017

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Item	Year	Harvested Acres	Total Value
Apiary	2017		\$56,145,000
	2016		49,183,000
Field Crops	2017	453,360	65,573,000
	2016	450,230	58,560,000
Fruit and Nut Crops	2017	252,990	1,333,383,000
	2016	243,830	1,245,648,000
Forest Products	2017		1,154,000
	2016		848,000
Livestock and Poultry	2017		122,935,000
	2016		108,918,000
Livestock and Poultry Products	2017		316,555,000
	2016		279,216,000
Nursery Products	2017	350	29,382,000
	2016	350	29,977,000
Vegetable Crops	2017	10,700	48,322,000
	2016	9,900	47,139,000
<b>TOTAL</b>	2017		<b>\$1,973,449,000</b>
	2016		1,819,489,000

## MADERA COUNTY

### HIGHLIGHTS

County Established	March 11, 1893
County Seat	Madera (city)
Population <sup>a</sup>	156,890
<b>Total County Acreage</b>	<b>1,366,925</b>
2017 Harvested Acreage	717,400
Field Crop Acreage	66,360
Fruit and Nut Acreage	252,990
Nursery Acreage	350
Rangeland Acreage	387,000
Vegetable Acreage	10,700
Forest Acreage	414,300
U. S. Parkland Acreage	83,000
<b>Bordering Counties</b>	
Merced County	Northwest
Mariposa County	North
Mono County	East
Fresno County	South and West
<b>Ranking of Madera County Among Counties of California</b>	
Population <sup>a</sup>	32
Total Acreage	24
Total Agricultural Production <sup>b</sup>	11
Commodity, by Value	
Figs	1
Pistachios	3
Grapes, Raisin Variety	4
Almonds	4
Grapes, Table Variety	5
Cattles & Calves	6
Grapes, Wine Variety	7
Corn, Silage	7
Cherries	7
Milk, Market	8
<b>Ranking of Madera County Among Counties of the United States</b>	
Total Agricultural Production <sup>c</sup>	14
a/ US Bureau of Census, 2016 Estimate	
b/ County Agricultural Commissioner's Data, 2016	
c/ USDA Ag Census, 2012	

Madera County Crop Reports from 2001 to 2017 are available at:  
[www.maderacounty.com/government/agricultural-commissioner-weight-and-measure](http://www.maderacounty.com/government/agricultural-commissioner-weight-and-measure)

# 2017 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 400 beehive shipments received from Red Imported Fire Ants (RIFA) infested states, with over 170,000 beehives, were inspected for RIFA.

During 2017, eleven nursery locations were inspected to ensure pest cleanliness.

Countries receiving agricultural commodities require certification that the commodities are free from potentially injurious pests. Over 4,400 phytosanitary inspections were performed on Madera County commodities, which were exported to 74 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>Ceratitidis 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 860 acres of cotton plantings.

### 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 890 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 2017, which led to additional placement of delimitation traps also followed by subsequent trap servicings.

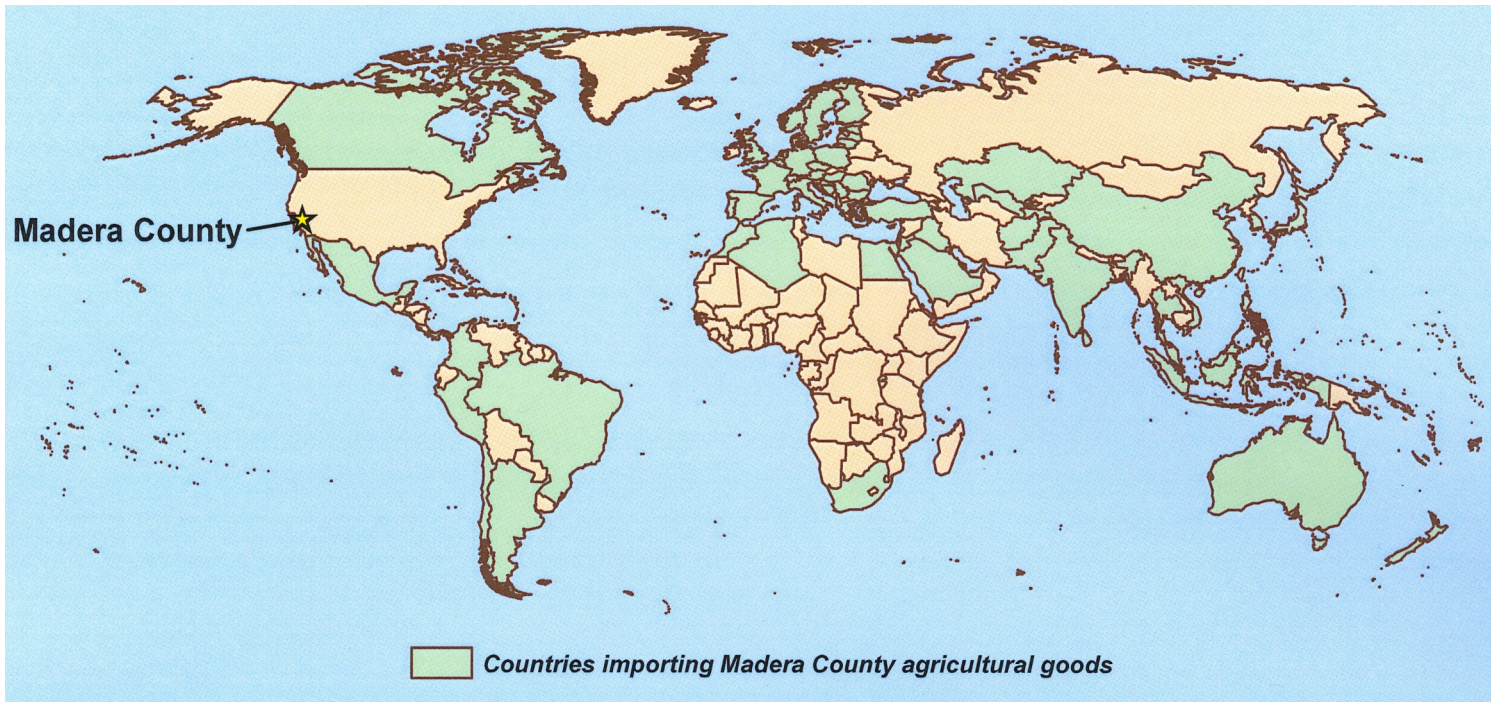
Additionally, the California Department of Food and Agriculture (CDFA) released two parasitic wasps (*Gonatocerus morgani* and *G. morrilli*) in 2017 to aid in the control of the Glassy-winged Sharpshooters. Over nine hundred and ninety parasitoids were released in the Wildwood and Rolling Hills areas.

### Organic Farming

Sixty-four (64) organic producers and 11 handlers/processors were registered in Madera County in 2017. 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 2017 was **\$45,100,000**.



**74 Countries Received Madera County Commodities in 2017:**

- |                          |                      |                        |                      |
|--------------------------|----------------------|------------------------|----------------------|
| ❖ Afghanistan            | ❖ Albania            | ❖ Algeria              | ❖ Argentina          |
| ❖ Australia              | ❖ Austria            | ❖ Bahrain              | ❖ Belgium            |
| ❖ Bosnia and Herzegovina | ❖ Brazil             | ❖ Bulgaria             | ❖ Canada             |
| ❖ Chile                  | ❖ China              | ❖ Colombia             | ❖ Croatia            |
| ❖ Cyprus                 | ❖ Czech Republic     | ❖ Denmark              | ❖ Dominican Republic |
| ❖ Egypt                  | ❖ Estonia            | ❖ Finland              | ❖ France             |
| ❖ French Polynesia       | ❖ Germany            | ❖ Greece               | ❖ Hong Kong          |
| ❖ Hungary                | ❖ India              | ❖ Indonesia            | ❖ Iraq               |
| ❖ Israel                 | ❖ Italy              | ❖ Japan                | ❖ Jordan             |
| ❖ Kazakhstan             | ❖ Korea, Republic of | ❖ Kuwait               | ❖ Latvia             |
| ❖ Lebanon                | ❖ Libya              | ❖ Lithuania            | ❖ Malaysia           |
| ❖ Mauritius              | ❖ Mexico             | ❖ Morocco              | ❖ Netherlands        |
| ❖ New Zealand            | ❖ Norway             | ❖ Pakistan             | ❖ Panama             |
| ❖ Peru                   | ❖ Philippines        | ❖ Poland               | ❖ Portugal           |
| ❖ Qatar                  | ❖ Romania            | ❖ Saudi Arabia         | ❖ Serbia             |
| ❖ Singapore              | ❖ South Africa       | ❖ Spain                | ❖ Sri Lanka          |
| ❖ Sweden                 | ❖ Switzerland        | ❖ Taiwan               | ❖ Tajikistan         |
| ❖ Thailand               | ❖ Turkey             | ❖ United Arab Emirates | ❖ United Kingdom     |
| ❖ Uzbekistan             | ❖ Viet Nam           |                        |                      |

**Madera County Commodities Exported:**

- |                       |                     |              |             |
|-----------------------|---------------------|--------------|-------------|
| ❖ Almonds             | ❖ Figs              | ❖ Grapes     | ❖ Kiwifruit |
| ❖ Corn Flour          | ❖ Nursery Rootstock | ❖ Pistachios | ❖ Plums     |
| ❖ Pomegranates        | ❖ Prunes            | ❖ Raisins    | ❖ Seeds     |
| ❖ Tillandsia (Plants) | ❖ Walnuts           |              |             |



**RAINFALL - MADERA, CALIFORNIA (1968 - 2017)**

<b>YEAR</b>	<b>JUL</b>	<b>AUG</b>	<b>SEPT</b>	<b>OCT</b>	<b>NOV</b>	<b>DEC</b>	<b>JAN</b>	<b>FEB</b>	<b>MAR</b>	<b>APR</b>	<b>MAY</b>	<b>JUNE</b>	<b>TOTAL</b>
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	<b>20.17</b>
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	<b>9.93</b>
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	<b>9.34</b>
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	<b>3.89</b>
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	<b>15.45</b>
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	<b>10.78</b>
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	<b>9.13</b>
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	<b>8.02</b>
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	<b>6.61</b>
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	<b>18.29</b>
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	<b>14.76</b>
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	<b>12.96</b>
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	<b>8.91</b>
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	<b>14.13</b>
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	<b>23.29</b>
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	<b>8.51</b>
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	<b>9.17</b>
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	<b>14.97</b>
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	<b>8.58</b>
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	<b>8.30</b>
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	<b>7.47</b>
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	<b>10.24</b>
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	<b>9.98</b>
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	<b>8.66</b>
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	<b>16.77</b>
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	<b>10.77</b>
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	<b>17.70</b>
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	<b>13.04</b>
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	<b>14.64</b>
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	<b>22.66</b>
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	<b>8.57</b>
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	<b>13.64</b>
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	<b>10.39</b>
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	<b>8.52</b>
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	<b>10.92</b>
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	<b>6.99</b>
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	<b>20.28</b>
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	<b>12.64</b>
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	<b>5.84</b>
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	<b>7.94</b>
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	<b>8.48</b>
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	<b>14.26</b>
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	<b>17.57</b>
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	<b>8.69</b>
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	<b>8.56</b>
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	<b>4.64</b>
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	<b>5.57</b>
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	<b>16.11</b>
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	<b>14.44</b>
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	<b>7.17</b>
<b>Average</b>	<b>0.01</b>	<b>0.01</b>	<b>0.15</b>	<b>0.64</b>	<b>1.20</b>	<b>1.78</b>	<b>2.15</b>	<b>2.04</b>	<b>2.06</b>	<b>1.03</b>	<b>0.38</b>	<b>0.10</b>	<b>11.57</b>



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