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California Department of Food and Agriculture

Agricultural Commissioners' Crop Reports

Madera County

2010-2014

2010 AGRICULTURAL CROP REPORT

MADERA COUNTY DEPARTMENT OF AGRICULTURE

BRANDS AND THEIR HISTORY

Branding of animals for identification has been around for thousands of years. "There is Biblical evidence that Jacob, the great herdsman, branded his stock. Egyptians have shown ancient brands on tombs and drawn pictures of the actual work of branding, while Chinese ideographs have been branded on animals for so long that Confucius could probably not have said when the practice began."

Because of identification and rustling issues, a "cowman's justice" was often meted out, but as early as 1850, laws to regulate brands began to appear. In 1915, California tried to pass legislation to enact a "California Hide and Brand Law." Due to lack of revenue for enforcement, the bill was not passed, but a similar one became law in 1917. This was administered by the Cattle Protection Board. In 1919, the Cattle Protection Service replaced the earlier board and became part of the California Department of Food and Agriculture … In 1936, the Cattle Protection Service became the Livestock Identification Service, and in 1940, the Bureau of Livestock Identification was established. To this day, the Bureau investigates cattle rustlers, tries to find missing livestock, and protects the cattleman's valuable investment.

Cattle rustling is alive and well today, especially in the wide open spaces of the American West. When cases are proven, rustlers go on trial, go to jail, and must pay restitution to ranchers and dairy producers. Use of a hot-iron brand is still the best method of protecting cattle from theft and helps to insure that the brand inspector can identify an animal and return it to its rightful owner."

After this history, the next question is how to read a brand. "Brands are read from top to bottom, from left to right," and from outside to inside. "The brand alphabet begins with plane geometry in its simplest form. First is the ordinary line, a short line, which may run crossways, up and down, or at an angle. With each change of position it acquires a new name. Most cattle brands are three to five inches across. If the brand is done neatly, this can be read one hundred feet away, depending on dust, sweat, rain, snow, and the eyes." If a young calf is branded, the brand grows with the animal, as the size of the hide increases. The brands location on the hide is of critical importance … whether it's the right hip, left hip, right shoulder, etc… this is an integral part of the registration of the brand.

All brands must be registered with the state on a regular basis, similar to registering a vehicle, and there is a fee for the registration. This allows the current owner of the brand to apply it to his livestock at the specified location. Application of the brand can be done in one of two ways. There is "casting or throwing" … sometimes known as "rope,'n' throw, 'n' brand 'em." Two riders on horseback rope the animal at the neck and two rear legs, the animal is then stretched out, and the brand is applied. The second method is "chute branding" and the brand is applied while an animal is being held securely in a squeeze chute.

Excerpt from Judy Ahmann, Editor, Some Califronia Ranches Their Stories and Their Brands (2010), ppg 163-164. Judy Ahmann is a past President of the California CattleWomen.

A special thank you to Diane Bohna Photography for providing: an account of a historic brand in Madera County, the front cover picture, and also the pictures on the inside cover, page 9, and page 13.

Madera County Department of Agriculture
Weights and Measures

Robert J. Rolan, Agricultural Commissioner
Sealer of Weight and Measures

Jay Seslowe, Assistant Agricultural
Commissioner/Sealer

Karen Ross, Secretary
California Department of Food and Agriculture

and

The Honorable Board of Supervisors

Frank Bigelow, Ronn Dominici, Max Rodriguez, David Rogers, and Tom Wheeler

In accordance with the provisions of Section 2279 of the California Food and Agricultural Code, I am pleased to submit the 2010 Agricultural Crop Report for Madera County. It must be emphasized that the values presented in this report reflect gross returns only and do not in any manner reflect net income or loss to producers.

The gross value of Madera County's agricultural production in 2010 was $1,348,505,000. This represents an overall increase of $384,969,000 (39.9%) over the revised 2009 production levels.

The Fruit and Nut Crop category was largely responsible for pushing production levels back over the billion dollar mark with a remarkable 50.8% increase. Leading the way in this category was the number one commodity, Almonds (nuts and hulls) valued at $270,916,000. Pistachios made a strong comeback from 2009 with a 192% increase to $239,702,000. Dairy prices rebounded and Milk remained the third ranking commodity with an overall value of $236,610,000. Grapes showed modest gains despite reduced acreage but dropped to the number four position at $232,740,000. Cattle and Calves remained Madera County's fifth highest individual commodity at $43,586,000.

Over the past century and a half, raising livestock has had a lasting impact on Madera County's economy and lifestyle. The 2010 Crop Report is dedicated to the tradition of ranching in Madera County.

The preparation of a report of this type requires extensive collaboration, and I sincerely appreciate the contributions of our growers, the UC Cooperative Extension, and my staff. In particular, I would like to thank Senior Agricultural & Standards Inspector, Cha Vang, for his assistance with crop surveys throughout the year and for compilation of this report.

Respectfully Submitted,

Robert J. Rolan

Agricultural Commissioner/

Sealer of Weights and Measures

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MADERA COUNTY DEPARTMENT OF AGRICULTURE

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David Rogers
District 2

Ronn Dominici
District 3

Max Rodriguez
District 4

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District 5

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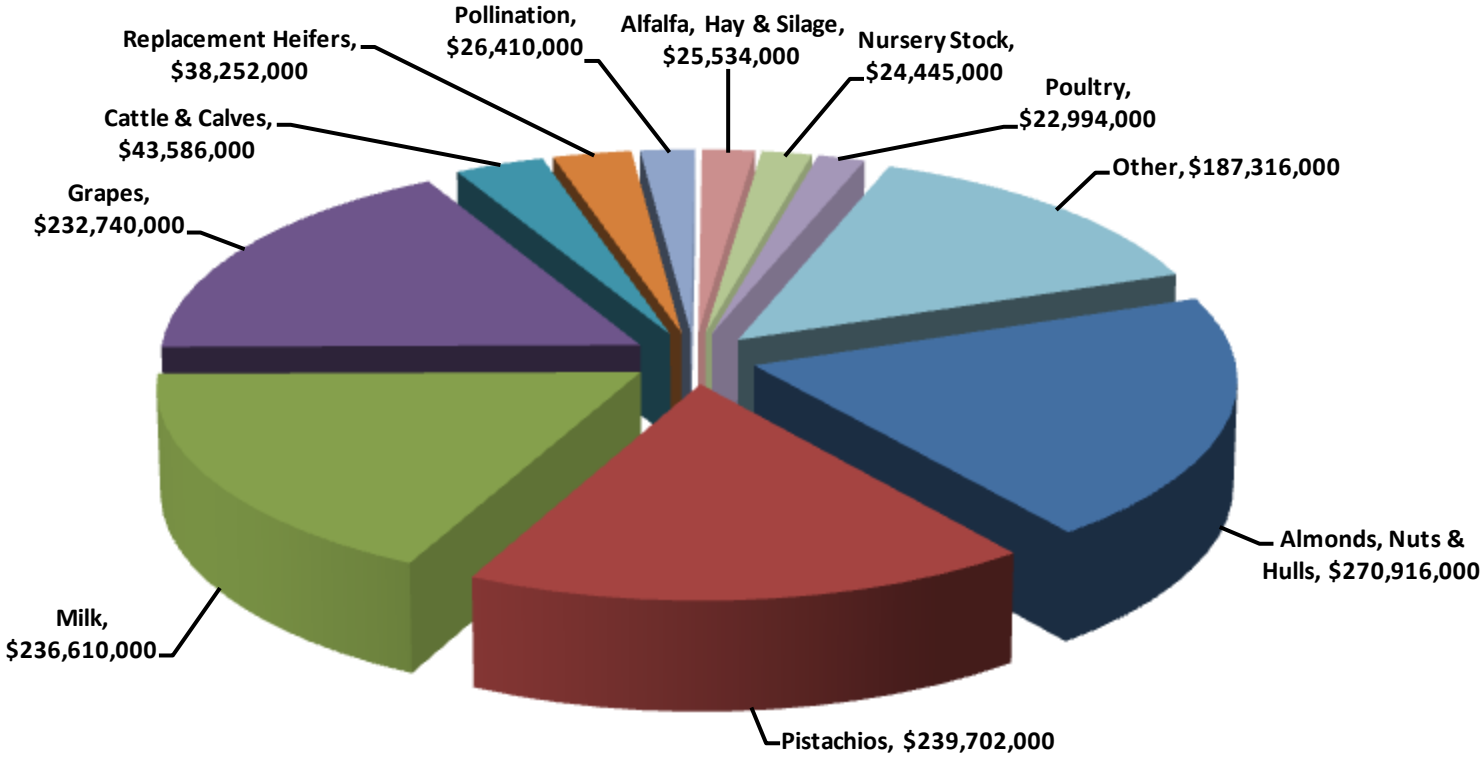
TEN LEADING CROPS
MADERA COUNTY 2010

Commodity	2010 Rank	2010 Dollar Value	2009 Rank
Almonds, Nuts & Hulls	1	$270,916,000	2
Pistachios	2	$239,702,000	4
Milk	3	$236,610,000	3
Grapes	4	$232,740,000	1
Cattles & Calves	5	$43,586,000	5
Replacement Heifers	6	$38,252,000	6
Pollination	7	$26,410,000	10
Alfalfa, Hay & Silage	8	$25,534,000	8
Nursery Stock	9	$24,445,000	7
Poultry	10	$22,994,000	9

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, dairy and beef cattle, nursery stock, field crops, poultry and apiary pollination. 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 corn, cotton, figs, stone fruit, tomatoes, timber and sheep.



CATTLE BRANDS OF CALIFORNIA MISSIONS

NAME	FOUNDED	LOCATION	BRAND	CATTLE
SAN DIEGO DE ALCALA	1769	SAN DIEGO	D	8,000
SAN LUIS REY DE FRANCIA	1798	SAN LUIS REY	3	26,000
SAN JUAN CAPISTRANO	1776	CAPISTRANO	CR	10,000
SAN GABRIEL ARCANGEL	1771	LOS ANGELES	3	20,500
SAN FERNANDO REY DE ESPANA	1797	SAN FERNANDO	4	12,500
SAN BUENA VENTURA	1782	VENTURA	AB	17,300
SANTA BARBARA	1786	SANTA BARBARA	⊕	3,600
SANTA INEZ	1804	SANTA INEZ	⊏	7,300
LA PURISMA CONCEPTION	1787	CONCEPTION	○	10,500
SAN LUIS OBISPO DE TOLOSA	1772	SAN LUIS OBISPO	S	8,600
SAN MIGUEL	1797	SAN MIGUEL	3	9,000
SAN ANTONIA DE PADUA	1771	MONTEREY CO.	A	5,000
NUESTRA SENORA DE LA SOLEDAD	1791	SOLEDAD	S	6,600
SAN CARLOS BORROMEO DEL CARMELO	1771	CARMEL	MR	2,050
SAN JUAN BAUTISTA	1797	SAN JUAN	A	11,000
SANTA CRUZ	1791	SANTA CRUZ	A	3,500
SANTA CLARA	1777	SANTA CLARA	SA	9,000
SAN JOSE	1797	MISSION SAN JOSE	J	2,000
SAN FRANCISCO DOLORES	1776	SAN FRANCISCO	F	4,200
SAN RAFAEL ARCHANGEL	1817	SAN RAFAEL	F	1,200
SAN FRANCISCO DE SOLANO	1824	SONOMA	F	2,500

MADERA COUNTY HIGHLIGHTS

County Established	March 11, 1893
County Seat	Madera (city)
Population[a]	150,865
Total County Acreage[b]	1,366,951
2010 Harvested Acreage	663,930
Field Crop Acreage	105,400
Fruit and Nut Acreage	199,970
Nursery Acreage	840
Vegetable Acreage	4,720
Rangeland Acreage	353,000
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[c]	14
Commodity, by Value	
Figs	1
Grapes, Raisin Variety	2
Pistachios	4
Almonds	5
Grapes, Table Variety	5
Cattle & Calves	7
Corn, Silage	7
Olives	7
Grapes, Wine Variety	8
Milk, Market	9

Ranking of Madera County Among Counties of the United States

Total Agricultural Production[b]	21

a/ US Bureau of Census, 2010 Estimate
b/ USDA Ag Census, 2007
c/ County Agricutural Commissioners's Data, 2009

* Madera County Crop Reports from 2001 to 2010 are available at:
http://www.madera-county.com/agcommissioner/cropreports/index.html

FIELD CROPS

Item	Year	PRODUCTION Harvested Acreage	PRODUCTION Per Acre	PRODUCTION Total	Unit	VALUE Per Unit	VALUE Total
Alfalfa							
Hay	**2010**	**28,900**	**6.09**	**176,001**	**Ton**	**$133.00**	**$23,408,000**
	2009	30,000	7.00	210,000	Ton	113.00	23,730,000
	2008	33,400	7.05	235,470	Ton	205.00	48,271,000
Silage[a]	**2010**			**62,522**	**Ton**	**34.00**	**2,126,000**
	2009			52,710	Ton	30.00	1,581,000
	2008			39,700	Ton	53.00	2,104,000
Total	**2010**	**28,900**					**25,534,000**
	2009	30,000					25,311,000
	2008	33,400					50,375,000
Beans, Dry[b]	**2010**	**-**	**-**	**-**	**-**	**-**	**-**
	2009	620	1.51	936	Ton	742.00	695,000
	2008	-	-	-	-	-	-
Corn							
Grain	**2010**	**1,100**	**5.49**	**6,039**	**Ton**	**192.00**	**1,159,000**
	2009	1,100	5.51	6,061	Ton	178.00	1,079,000
	2008	2,000	6.41	12,820	Ton	213.00	2,731,000
Silage	**2010**	**21,300**	**26.94**	**573,822**	**Ton**	**30.00**	**17,215,000**
	2009	19,700	25.25	497,425	Ton	25.00	12,436,000
	2008	27,300	26.11	712,803	Ton	37.00	26,374,000
Total	**2010**	**22,400**					**18,374,000**
	2009	20,800					13,515,000
	2008	29,300					29,105,000
Cotton							
Lint	**2010**	**4,100**	**1,561[c]**	**13,334**	**Bale[d]**	**1.20[e]**	**7,680,000**
	2009	330	1,123	772	Bale	0.72	267,000
	2008	2,500	1,139	5,932	Bale	0.76	2,164,000
Seed	**2010**			**5,328**	**Ton**	**237.00**	**1,263,000**
	2009			310	Ton	290.00	90,000
	2008			2,400	Ton	335.00	804,000
Oat							
Hay	**2010**	**3,100**	**2.08**	**6,448**	**Ton**	**81.00**	**522,000**
	2009	3,400	2.14	7,276	Ton	72.00	524,000
	2008	5,300	2.04	10,812	Ton	163.00	1,762,000
Pasture							
Irrigated	**2010**	**3,300**			**Acre**	**150.00**	**495,000**
	2009	3,300			Acre	150.00	495,000
	2008	3,500			Acre	150.00	525,000
Rangeland	**2010**	**353,000**			**Acre**	**12.00**	**4,236,000**
	2009	353,000			Acre	12.00	4,236,000
	2008	353,000			Acre	12.00	4,236,000

FIELD CROPS

Item	Year	PRODUCTION Harvested Acreage	PRODUCTION Per Acre	PRODUCTION Total	PRODUCTION Unit	VALUE Per Unit	VALUE Total
Wheat							
Grain	**2010**	**14,200**	**2.40**	**34,080**	**Ton**	**$182.00**	**$6,203,000**
	2009	6,000	2.46	14,760	Ton	245.00	3,616,000
	2008	5,200	2.71	14,092	Ton	251.00	3,537,000
Silage	**2010**	**17,800**	**14.98**	**266,644**	**Ton**	**21.00**	**5,600,000**
	2009	16,500	14.40	237,600	Ton	18.00	4,277,000
	2008	19,200	15.09	289,728	Ton	29.00	8,402,000
Total	**2010**	**32,000**					**11,803,000**
	2009	22,500					7,893,000
	2008	24,400					11,939,000
Winter Forage	**2010**	**2,700**	**16.81**	**45,387**	**Ton**	**20.00**	**908,000**
	2009	3,400	12.17	41,378	Ton	18.00	745,000
	2008	2,900	14.24	41,296	Ton	27.00	1,115,000
Miscellaneous[f]	**2010**	**8,900**					**8,601,000**
	2009	12,100					7,451,000
	2008	9,300					5,943,000
TOTAL	**2010**	**458,400**					**$79,416,000**
	2009	449,450					*61,222,000**
	2008	463,600					107,968,000

a/ Alfalfa acreage yields both hay and silage
b/ Includes Black-eyes, Kidneys and Limas. 2008 & 2010 acreage & value included in Miscellaneous
c/ Pounds
d/ Bale: 480 pounds
e/ Per pound
f/ Includes barley (hay & silage), seed crops, Sudan grass, wheat hay, field and stubble straw. Beans, Dry included in 2008 & 2010

* *Revised*

VEGETABLE CROPS

Item	Year	PRODUCTION Harvested Acreage	PRODUCTION Per Acre	PRODUCTION Total	PRODUCTION Unit	VALUE Per Unit	VALUE Total
Tomatoes							
Fresh	**2010**	**320**	**16.22**	**5,190**	**Ton**	**$425.00**	**$2,206,000**
	2009	400	15.80	6,320	Ton	441.00	2,787,000
	2008	300	15.26	4,578	Ton	462.00	2,115,000
Processed	**2010**	**2,700**	**49.17**	**132,759**	**Ton**	**64.00**	**8,497,000**
	2009	2,000	39.52	79,040	Ton	81.00	6,402,000
	2008	1,900	39.73	75,487	Ton	70.00	5,284,000
Miscellaneous[a]	**2010**	**1,700**					**12,572,000**
	2009	1,740					8,156,000
	2008	720					6,854,000
TOTAL	**2010**	**4,720**					**$23,275,000**
	2009	4,140					17,345,000
	2008	2,920					14,253,000

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

Pumpkins: by Thomas Hagopian/Grower

FRUIT & NUT CROPS

Item	Year	Harvested Acreage	Per Acre	PRODUCTION Total	Unit	VALUE Per Unit	Total
Almonds[a]	**2010**	**80,000**	**0.91**	**72,800[b]**	**Ton**	**$3,501.00**	**$254,873,000**
	2009	68,000	0.79	53,720	Ton	3,018.00	162,127,000
	2008	66,800	1.05	70,140	Ton	2,769.00	194,218,000
Almond Hulls	**2010**			**155,758**	**Ton**	**103.00**	**16,043,000**
	2009			114,936	Ton	86.00	9,884,000
	2008			150,067	Ton	120.00	18,008,000
Cherries	**2010**	**400**	**5.23**	**2,092**	**Ton**	**2,713.00**	**5,676,000**
	2009	380	4.84	1,839	Ton	2,648.00	4,870,000
	2008	360	3.83	1,379	Ton	2,873.00	3,962,000
Figs	**2010**	**6,750**	**1.95**	**13,163**	**Ton**	**1,518.00**	**19,981,000**
	2009	6,280	1.70	10,676	Ton	1,511.00	16,131,000
	2008	6,000	1.66	9,960	Ton	1,690.00	16,832,000
Grapes							
Raisin Varieties							
Crushed	**2010**	**10,000**	**9.29**	**92,900**	**Ton**	**212.00**	**19,695,000**
	2009	10,900	7.60	82,840	Ton	165.00	13,669,000
	2008	13,300	10.24	136,192	Ton	220.00	29,962,000
Dried	**2010**	**21,000**	**2.60**	**54,600**	**Ton**	**1,321.00**	**72,127,000**
	2009	21,100	2.80	59,080	Ton	1,139.00	67,292,000
	2008	21,000	2.99	62,790	Ton	1,073.00	67,374,000
Fresh	**2010**	**900**	**10.30**	**9,270**	**Ton**	**1,001.00**	**9,279,000**
	2009	1,020	10.05	10,251	Ton	856.00	8,775,000
	2008	1,150	8.51	9,787	Ton	885.00	8,661,000
Table Varieties	**2010**	**2,300**	**9.41**	**21,643**	**Ton**	**1,424.00**	**30,820,000**
	2009	2,060	9.90	20,394	Ton	1,510.00	30,795,000
	2008	2,200	7.22	15,884	Ton	1,108.00	17,599,000
Wine Varieties[c]							
Red Varieties	**2010**	**22,400**	**10.25**	**229,600**	**Ton**	**257.00**	**59,007,000**
	2009	23,500	10.43	254,105	Ton	262.00	64,218,000
	2008	24,100	10.10	243,410	Ton	266.00	64,747,000
White Varieties	**2010**	**15,200**	**11.32**	**172,064**	**Ton**	**243.00**	**41,812,000**
	2009	15,900	10.42	165,678	Ton	248.00	41,088,000
	2008	17,800	9.88	175,864	Ton	252.00	44,318,000
Total Grapes	**2010**	**71, 800**					**232,740,000**
	2009	74,480					*225,837,000**
	2008	79,550					232,661,000
Nectarines[d]	**2010**	**-**	**-**	**-**	**-**	**-**	**-**
	2009	**-**	**-**	**-**	**-**	**-**	**-**
	2008	450	6.00	2,700	Ton	670.00	1,809,000

* *Revised*

FRUIT & NUT CROPS

Item	Year	Harvested Acreage	PRODUCTION Per Acre	PRODUCTION Total	PRODUCTION Unit	VALUE Per Unit	VALUE Total
Olives	**2010**	**1,380**	**4.76**	**6,569**	**Ton**	**$793.00**	**$5,209,000**
	2009	1,100	0.57	627	Ton	1,116.00	700,000
	2008	1,190	4.68	5,569	Ton	891.00	4,962,000
Oranges	**2010**	**3,430**	**12.74**	**43,698**	**Ton**	**168.00**	**7,341,000**
	2009	3,550	12.64	44,872	Ton	187.00	8,391,000
	2008	3,630	16.31	59,205	Ton	142.00	8,407,000
Peaches							
Cling	**2010**	**320**	**16.00**	**5,120**	**Ton**	**310.00**	**1,587,000**
	2009	340	16.21	5,512	Ton	318.00	1,753,000
	2008	350	16.81	5,884	Ton	325.00	1,912,000
Freestone	**2010**	**740**	**12.84**	**9,502**	**Ton**	**493.00**	**4,684,000**
	2009	770	11.48	8,840	Ton	527.00	4,659,000
	2008	460	14.57	6,702	Ton	319.00	2,138,000
Pistachios	**2010**	**28,000**	**1.74**	**48,720[b]**	**Ton**	**4,920.00**	**239,702,000**
	2009	27,700	0.84	23,268	Ton	3,520.00	81,903,000
	2008	26,900	1.60	43,040	Ton	4,155.00	178,831,000
Plums[e]	**2010**	**-**	**-**	**-**	**-**	**-**	**-**
	2009	180	8.55	1,539	Ton	904.00	1,391,000
	2008	320	7.52	2,406	Ton	863.00	2,077,000
Plums, Dried	**2010**	**1,100**	**3.62**	**3,982**	**Ton**	**1,437.00**	**5,722,000**
	2009	1,290	3.45	4,451	Ton	1,445.00	6,431,000
	2008	1,240	3.46	4,290	Ton	1,506.00	6,461,000
Walnuts	**2010**	**1,250**	**1.78**	**2,225**	**Ton**	**1,867.00**	**4,154,000**
	2009	1,200	1.53	1,836	Ton	1,674.00	3,073,000
	2008	1,250	1.43	1,788	Ton	1,542.00	2,757,000
Miscellaneous							
Fruits & Nuts[f]	**2010**	**4,800**					**33,834,000**
	2009	4,190					23,531,000
	2008	2,500					19,950,000
Orchard Firewood	**2010**			**6,500**	**Cord**		**975,000**
	2009			7,000	Cord		980,000
	2008			7,800	Cord		1,170,000
TOTAL	**2010**	**199,970**					**$832,521,000**
	2009	189,460					552,033,000
	2008	191,000					696,154,000

a/ Meat basis
b/ Reflects total production, including imperfect stock; price weighted accordingly
c/ Includes table grape crushed
d/ 2009 & 2010 harvested acreage & value included in Miscellaneous Fruit & Nuts
e/ 2010 harvested acreage & value included in Miscellaneous Fruit & Nuts
f/ Includes apples, apricots, berries, kiwis, nectarines, pears, pecans, persimmons, pomegranates, tangelos, tangerines, strawberries, almond and walnut shells

FOREST PRODUCTS

Item	Year	PRODUCTION Production	Unit	VALUE Total Value
Timber	**2010**	**3,353**	**MBF [a]**	**$225,000**
	2009	280	MBF	36,000
	2008	620	MBF	86,000
Firewood	**2010**	**2,075**	**Cord[b]**	**228,000[c]**
	2009	1,380	Cord	287,000
	2008	1,253	Cord	262,000
TOTAL	**2010**			**$453,000**
	2009			323,000
	2008			348,000

a/ Thousand Board Feet
b/ Cord: 128 cubic feet
c/ Includes value for Christmas trees, greenery, pinecones and saw logs

NURSERY PRODUCTS

Item	Year	PRODUCTION Field Acres	House Sq. Foot	VALUE Total Value
Nursery Stock[a]	**2010**	**840**	**653,000**	**$24,445,000**
	2009	740	669,000	26,081,000
	2008	670	697,000	33,820,000

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

APIARY PRODUCTS

Item	Year	PRODUCTION Total	Unit	VALUE Per Unit	Total
Apiary Products					
Beeswax	**2010**	**30,000**	**Pound**	**$2.04**	**$61,000**
	2009	22,000	Pound	2.12	47,000
	2008	34,000	Pound	1.73	59,000
Honey	**2010**	**781,000**	**Pound**	**1.43**	**1,117,000**
	2009	611,000	Pound	1.26	770,000
	2008	509,000	Pound	1.29	657,000
Pollination	**2010**	**190,000**	**Colony**	**139.00**	**26,410,000**
	2009	141,000	Colony	138.00	19,458,000
	2008	167,000	Colony	139.00	23,213,000
TOTAL	**2010**				**$27,588,000**
	2009				20,275,000
	2008				23,929,000

LIVESTOCK AND POULTRY

		PRODUCTION			VALUE	
Item	Year	Head	Liveweight	Unit	Per Unit	Total
Cattle and Calves[a]	**2010**	**76,300**	**551,720**	**CWT[b]**	**$79.00**	**$43,586,000**
	2009	81,040	596,220	CWT	68.00	40,543,000
	2008	82,560	598,280	CWT	70.00	41,880,000
Replacement Heifers[c]	**2010**	**29,200**			**1,310.00**	**38,252,000**
	2009	28,520			1,210.00	34,509,000
	2008	31,280			1,740.00	54,427,000
Poultry	**2010**					**22,994,000**
	2009					24,531,000
	2008					33,708,000
TOTAL	**2010**					**$104,832,000**
	2009					99,583,000
	2008					130,015,000

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]	**2010**	**15,671,924**	**CWT**	**$14.52**	**$227,556,000**
	2009	14,382,349	CWT	11.25	161,758,000
	2008	16,995,929	CWT	16.57	281,623,000
Milk Manufacturing[a]	**2010**	**621,409**	**CWT**	**14.57**	**9,054,000**
	2008	571,168	CWT	12.08	6,897,000
	2007	658,191	CWT	18.56	12,216,000
Other Products[b]	**2010**				**19,365,000**
	2009				18,019,000
	2008				10,549,000
TOTAL	**2010**				**$255,975,000**
	2009				186,674,000
	2008				304,388,000

a/ Madera County has 55 dairies, with 73,000 lactating cows
b/ Includes aquaculture, ducks, market eggs, hogs, manure, sheep, lambs and wool

Sustainable Agriculture Report 2010

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.

During 2010, five nursery locations were inspected to ensure pest cleanliness. Over 40 shipments of plant materials, received by nurseries, were inspected for potentially injurious pests prior to retail sale.

Red Imported Fire Ant (Photo/University of California Cooperative Extension)

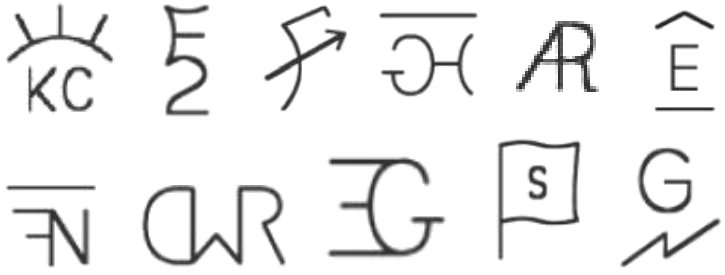
Over 20,000 acres were surveyed for Red Imported Fire Ants (RIFA), including commercial nurseries, recently-landscaped residential developments and orchards pollinated by out-of-state beehives. Nineteen beehive shipments from RIFA infested states, with over 9,100 beehives, were inspected for RIFA. RIFA were found on two beehive shipments in February, 2010, one shipment from Florida and one shipment from Texas. The orchards where the RIFA infested beehives were placed were surveyed and no RIFA was found. RIFA was found outside of the infested area in a pistachio orchard. The State of California is following up with additional surveys, treatment and post-treatment surveys of the site.

During 2010, over sixty countries received agricultural commodities, which required certification that the commodities were free from potentially injurious pests. Over 3,000 phytosanitary inspections were performed on Madera County commodities destined for export.

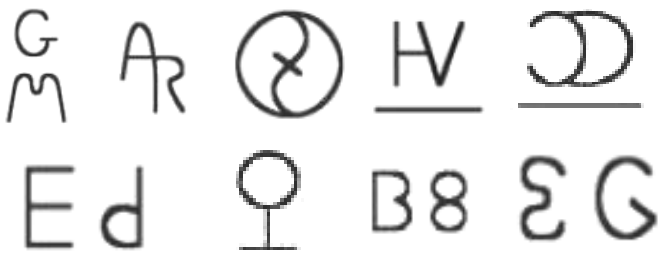
The **Pest Detection Program** utilizes insect traps and surveys for the detection of foreign pests which may have eluded exclusion efforts. Over 1,360 traps were deployed in the county, with over 13,900 trap servicings performed during the 2010 season. The trapping program in Madera County targeted multiple pests, including the following:

Caribbean Fruit Fly
European Corn Borer
Gypsy Moth
Japanese Beetle
Khapra Beetle
Light Brown Apple Moth
Mediterranean Fruit Fly
Melon Fruit Fly
Mexican Fruit Fly
Oriental Fruit Fly

Some 2010 registered cattle brands in Raymond



Some 2010 registered cattle brands in North Fork, Oakhurst & O'Neals



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. In 2010, plowdown of over 4,100 acres of cotton was verified, ensuring the destruction of habitat supportive of this pest.

PEST MANAGEMENT

Glassy-Winged Sharshooter, UC Extension

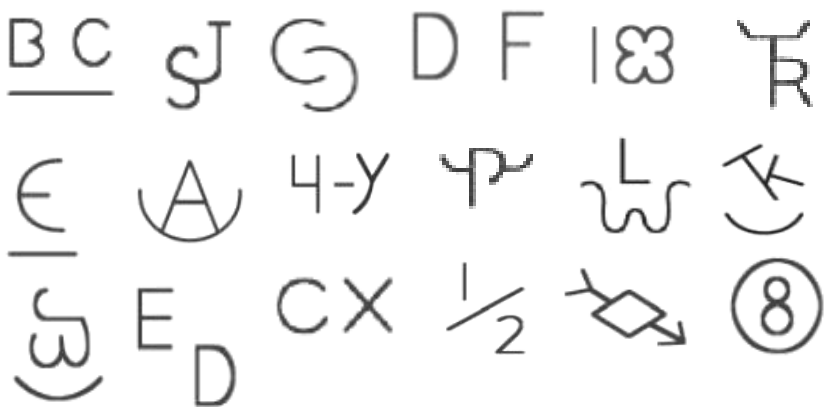
The **Glassy-winged Sharpshooter Program** serves to detect and control the vector of Pierce's Disease, a potentially catastrophic disease of vineyards. This program involved the placement of 500 traps, with 6,962 subsequent trap servicings. In addition, incoming shipments of host material and susceptible county plantings were inspected. Over 500 nursery shipments were inspected in 2010. From July 27 through October 29 of 2010, multiple Glassy-winged Sharpshooters were found with the majority of the finds in the Cobb Ranch and Wildwood Mobile Home Park area. Our office deployed over 700 delimitation traps throughout the find sites, with over 11,000 subsequent trap servicings. Treatment was performed on the find sites. Detection surveys will continue in 2011 as the weather warms up.

The **Vertebrate Pest Management Program** provides expertise and materials, to growers and homeowners, for the control of certain depredating vertebrate pests.

Fifty **Organic Farms**, totaling more than 6,800 acres, three handlers and one processor, were registered in Madera County in 2010. 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, arugula, avocado, basil, green beans, beets, berries, broccoli, brussels sprouts, cabbage, cauliflower, cantaloupe, carrots, chard, cherries, collards, sweet corn, cucumbers, cut flowers, eggplant, endive, fennel, figs, garlic, grapes (table, raisin, wine), hay, herbs, honeydew, kale, kiwi, kohlrabi, leeks, lettuce, okra, olives, onions, oranges, peaches, peas, peppers, persimmons, pistachios, dried plums, pomegranates, potatoes, radish, seed crops, spinach, squash, tomatillo, tomatoes, turnips, watermelons, yams, zucchini.

The value of organic production in Madera County during 2010 was **$20,108,000.**



Some 2010 registered cattle brands in Coarsegold

AGRICULTURAL CROP REPORT SUMMARY
MADERA COUNTY 2010

Item	Year	Harvested Acres	Total Value
Apiary	**2010**		**$27,588,000**
	2009		20,275,000
	2008		23,929,000
Field Crops	**2010**	**458,400**	**79,416,000**
	2009	449,450	*61,222,000**
	2008	463,600	107,968,000
Fruit and Nut Crops	**2010**	**199,970**	**832,521,000**
	2009	189,460	552,033,000
	2008	191,000	696,154,000
Livestock and Poultry	**2010**		**104,832,000**
	2009		99,583,000
	2008		130,015,000
Livestock and Poultry Products	**2010**		**255,975,000**
	2009		186,674,000
	2008		304,388,000
Nursery Products	**2010**	**840**	**24,445,000**
	2009	740	26,081,000
	2008	670	33,820,000
Forest Products	**2010**		**453,000**
	2009		323,000
	2008		348,000
Vegetable Crops	**2010**	**4,720**	**23,275,000**
	2009	4,140	17,345,000
	2008	2,920	14,253,000
TOTAL	**2010**		**$1,348,505,000**
	2009		*963,536,000**
	2008		1,310,875,000

* *Revised*

The First Brands Registered in each County in California

County	Brand	Owner	Date
Alameda		Calvin James	1853
Alpine		Love & Tanner	1874
Amador		Allen & Rieck	1863
Butte		Isiah J. Armstrong	1850
Calaveras		Gariclon & Kallenbach	1855
Colusa		Daniel Griswold	1857
Contra Costa		Augustine Alviso	1856
Del Norte		Henry Haley	1877
El Dorado		A.B. Lutz	1851
Fresno		James E. Haddon	1856
Glenn		Warren Green	1901
Imperial		W.L. Bright	1907
Inyo		Robert W. Ford	1870
Kern		John R. Beck	1866
Kings		A.G. Souza	1893
Lake		Hiram Kennedy	1870
Lassen		Thomas Watson	1864
Los Angeles		Prospero	1835
Humboldt		R.M. Williams	1855
Madera	AK	Agnes Keith	1898
Marin		Gregorio Briones	1845
Mariposa		P.B. Nagle	1852
Mendocino		White & Simpson	1859
Merced	R	Barfield & Ruddel	1855
Modoc		John Caldwell	1874
Mono	P	Henry & Charles Parish	1860
Monterey		Alberto Trescony	1846
Napa		William M. Reed	1851

County	Brand	Owner	Date
Nevada	JP	Joseph Peters	1873
Orange		S.J. & Oscar Rosenbaum	1890
Placer	R	Cox Co.	1857
Plumas		R.A. Fairchilds	1854
Riverside		William Vater	1893
Sacramento	20	John Rhodes	1850
San Benito	G	Louis Gibbon	1874
San Bernadino		Doleres Mevilla de Valdez	1861
San Diego		H.D. Fitch	1847
San Joaquin		Heath & Emory	1857
San Luis Obispo		Capt. John Wilson	1851
San Mateo		Belmore O'Harke	1856
Santa Barbara		Patrico Cota	1834
Santa Clara		Francisco Bernal	1852
Santa Cruz		Miguel Villa Grau	1850
Shasta		Thomas Asbury & Bros	1860
Sierra		Anna McMahon	1869
Siskiyiou		Samuel B. Jackson	1852
Solano	76	Thomas Bedford	1854
Sonoma		Israel Brockman	1847
Stanislaus		G.E. Smith	1854
Sutter	SB	Samuel Broman	1860
Tehama		P.W. Hayes	1856
Trinity		James Hoadley	1862
Tulare		John Fancher	1852
Touolumne	4 4	Linoberg & Musson	1850
Ventura	JH	John Hosler	1873
Yolo		Charles L. Cady	1850
Yuba	76	Charles Phelps	1850

Historic Brand of Madera County
Lazy S Wrench – Left Rib
Three Horizontal Bars – Left Rib

The S Wrench brand was originally used as a horse brand by Henry Miller. Then, in the late 1800 to early 1900 Tom Beasore acquired the brand for the use on his cattle. Mr. Beasore was one of the pioneers that summered his cattle in the Sierras and this is where Beasore Meadows found a name. Beasore Meadow is located in the Sierra Nevada Mountains and is above Bass Lake. He would keep his cattle on the lower elevations of Madera County in the cold of winter and as the season would change and the green grass would fade to gold he would migrate with his herd to the mountains. He purchased a ranch in Coarsegold to hold his cattle over on the trek to the mountains. This is where he first met my father Henry Bohna, a young man at the time: the year 1940. Tom was getting on in age, closing in on 90, so he had asked my father to help him. My father was batching at the time on the old river road near the Olive Trees with Bud Shannon. He would walk to work up the grade to cross the road from where the Coarsegold School currently is to work every day. Bud decided this would not do and loaned my father a horse to ride. Soon Tom Beasore needed more than just help on the ranch; he needed someone to care for him. Thus, my father moved in and stayed with him until he passed away in 1950. The S Wrench brand was registered into Henry Bohnas' name in 1945. This brand on cattle continued to go from stubble feed in the San Joaquin Valley to the high country for many years until the 1960's when my father designed a new brand: three horizontal bars on the left rib. He utilized this three bar brand on his cattle herd until he passed away in 1986. The brand however has not missed a year of going from near Coarsegold to the Sierras since my father registered it. I now have the brand registered in my name and continue the tradition of driving the cattle from the lower elevation near Raymond to the Sierra Nevada Mountains when the snow gives way for the lush green feed to grow.

The Three Bar Brand stands for "Tradition", a word I hold a great deal of respect and pride for.

By Diane Bohna, June 22, 2011

Photo taken in 2008 at the "Nich Pass" coming down off the side of Kaiser Pass (elevation near 10,000 feet), North of Huntington Lake towards Edison Lake in the Sierra Nevada's. The cattle are Bohna Cattle on the way home from the high country.

LEGEND **O**F **T**HE **C**ATTLE

The following is an excerpt from the March 6, 2005 edition of the Chowchilla News, Patty Mandrell, Editor

The Cattle Drive down the main street of Chowchilla first began on Friday, March 28, 1958. Since that time, the Cattle Drive has become a tradition and has been the official opening for the Chowchilla Western Stampede.

The annual event attracts children, adults, cowboys, cowgirls, and out-of-town visitors. It "hails the beginning of Roping Fever" that spreads throughout the community. The Cattle Drive sets the stage for five days of team roping, calf roping and barrel racing.

How did the cattle drive get its start? Well, there are several versions. According to local residents Dan Branco and Jim Looney, the cattle drive was the end result of a bunch of young cowboys with a lot of energy.

In 1958, the stock for the Stampede was to be furnished by Paul Perry of Madera. He planned to have approximately 150 steers and 60 calves on hand for the big three-day event. The stock was on a ranch the other side of Dairyland. The committee was at a loss as to how they were going to get the steers to town. The young cowboys decided they would just drive the stock to town, which they did. As they got closer to town they thought it would be funny to drive the steers right down the main street, Robertson Boulevard, of Chowchilla, which they did.

The drive did create a sensation and definitely announced the coming of the Chowchilla Western Stampede. It did cause one problem. One Chowchilla resident got a little upset when a steer stepped on his strawberry plants. The little incident ended up costing the fair manager $20. The Cattle Drive has continued each year but the cost is far more than $20.

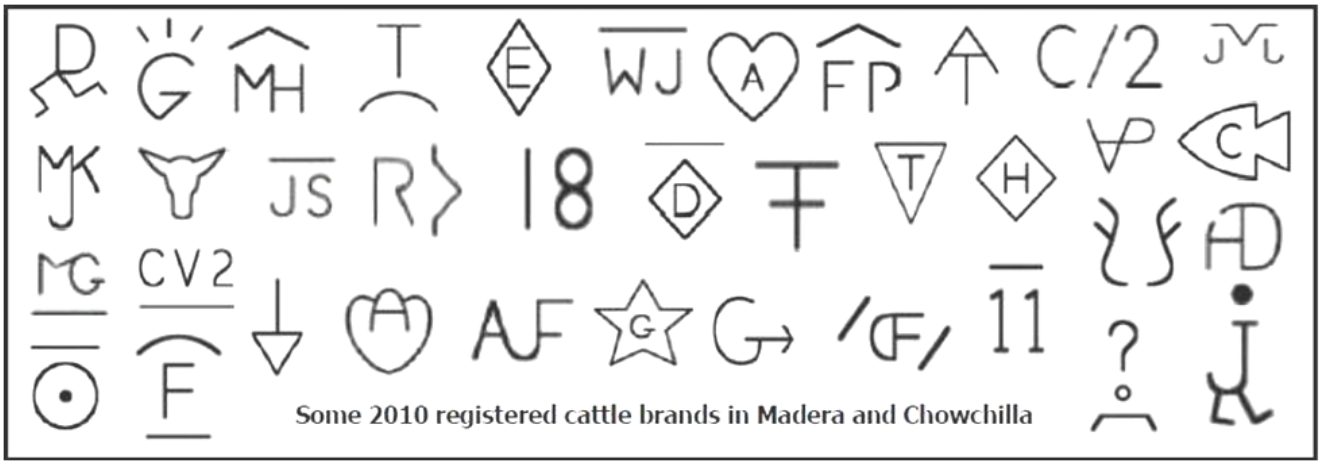
At one time, the cattle drive through town was threatened due to the high cost of insurance. Two local farmers/dairymen, Charlie Keller and Tony Fagundes, stepped in to save the day. Today the cost of insurance for the Cattle Drive runs around $800.

There has never been an injury as a result of the Cattle Drive.

Nearing its 50th year, the Chowchilla Western Stampede Cattle Drive continues to be a popular event. School children line the streets dressed in their western attire. Adults envision the days of Roy Rogers and Gene Autry and the news media capture it all on film. The Cattle Drive has received national coverage and has been featured in numerous magazines and papers. Other cities have tried to copy the event but not as successfully as the Chowchilla event.

The Cattle Drive and Stampede are a part of Chowchilla's rich heritage. At one time the grandstands were packed with spectators. There is no charge to watch the roping and barrel racing. The Stampede Committee invites the community to come out and catch the "Stampede Spirit."

Photo credit: Chowchilla News



Madera County

Department of Agriculture/Weights and Measures

332 S. Madera Avenue

Madera, CA 93637

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HONEY BEES AND CROP POLLINATION

2011 AGRICULTURAL CROP REPORT

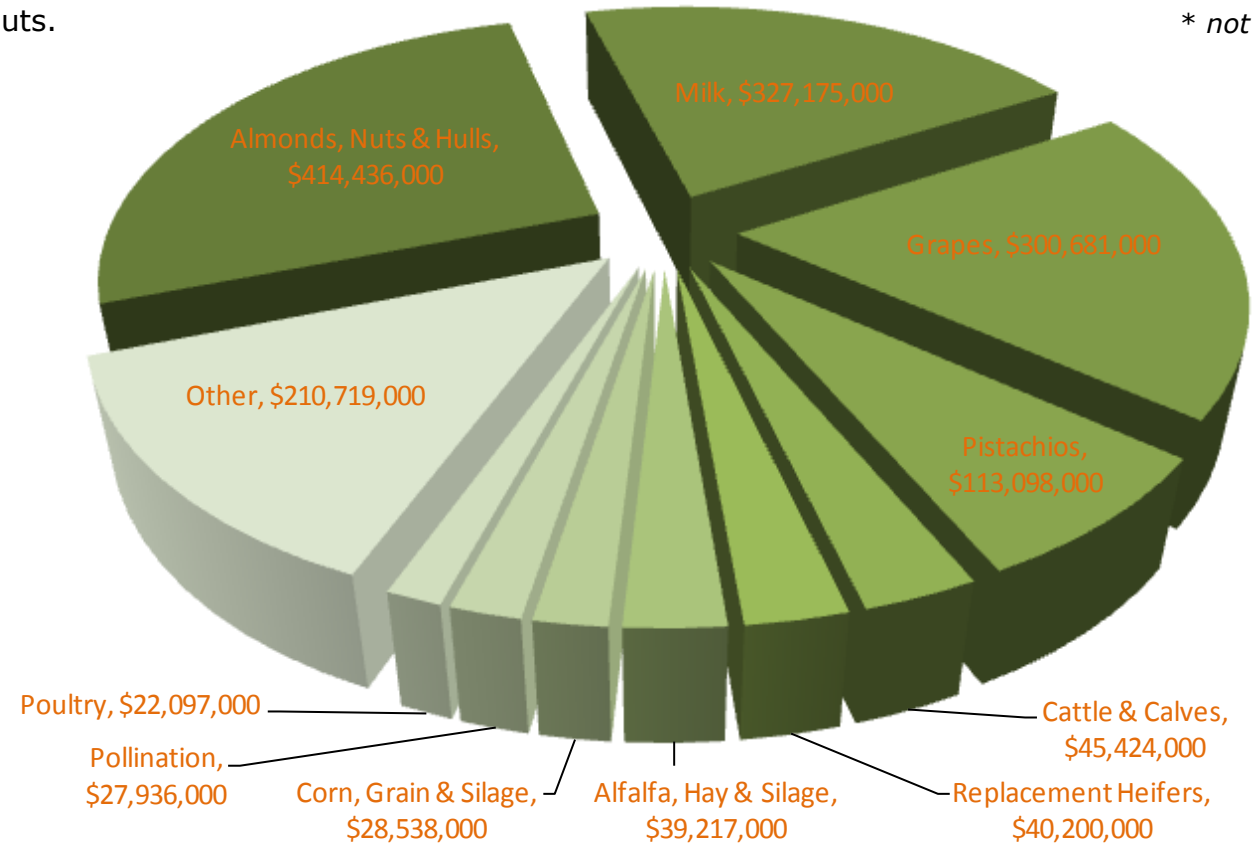
MADERA COUNTY
DEPARTMENT OF AGRICULTURE

TEN LEADING CROPS
MADERA COUNTY 2011

Commodity	2011 Rank	2011 Dollar Value	2010 Rank
Almonds, Nuts & Hulls	1	$414,436,000	1
Milk	2	$327,175,000	3
Grapes	3	$300,681,000	4
Pistachios	4	$113,098,000	2
Cattles & Calves	5	$45,424,000	5
Replacement Heifers	6	$40,200,000	6
Alfalfa, Hay & Silage	7	$39,217,000	8
Corn, Grain & Silage	8	$28,538,000	*
Pollination	9	$27,936,000	7
Poultry	10	$22,097,000	10

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, dairy and beef cattle, nursery stock, field crops, poultry and apiary pollination. 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 berries, citrus, cotton, olives, stone fruits, timber, vegetable crops and walnuts.

** not in Top 10*



Front cover: Honey bee by Kathy Keatley Garvey

Madera County Department of Agriculture
Weights and Measures

Jay Seslowe, Assistant Agricultural Commissioner/Sealer

Karen Ross, Secretary
California Department of Food and Agriculture

and

The Honorable Board of Supervisors

Frank Bigelow, Ronn Dominici, Max Rodriguez, David Rogers, and Tom Wheeler

In accordance with the provisions of Section 2279 of the California Food and Agricultural Code, I am pleased to submit the 2011 Agricultural Crop Report for Madera County. It must be emphasized that the values presented in this report reflect gross returns only and do not in any manner reflect net income or loss to producers.

The gross value of Madera County's agricultural production in 2011 was $1,569,521,000. This represents an overall increase of $221,016,000 (16.39%) over the 2010 production levels.

Almonds continued to be the leading crop in Madera County for the second straight year with a value of $414,436,000. This is an increase of $127,944,000 from 2010 due to favorable conditions and an excellent crop set. Milk increased by 38.28% to $327,175,000 with increases in both production and price per unit of market milk. Grapes moved up to the number three leading crop with a 29.19% increase to $300,681,000. Pistachios, an alternate-bearing crop, dropped to number four with a decrease in production value to $113,098,000. Cattle and Calves remained Madera County's fifth highest individual commodity at $45,424,000.

The preparation of a report of this type requires extensive collaboration, and I sincerely appreciate the contributions of our growers, the UC Cooperative Extension, and my staff. In particular, I would like to thank Senior Agricultural & Standards Inspector, Cha Vang, for his assistance with crop surveys throughout the year and for compilation of this report.

Respectfully Submitted,

Jay Seslowe
Assistant Agricultural Commissioner/
Sealer of Weights and Measures

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David Rogers
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District 3

Max Rodriguez
District 4

Tom Wheeler
District 5

County Administrative Officer

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Judy Cumming
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Sharon Seslowe
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Mary Arias, Program Assistant I

Pest Detection Trappers

Justin Betts
Benjamin Holschlag
Gloria Johnson
Peter Konovalov
Alan Pehl
Charles Reiring, Jr.
Ron Uyeno

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MADERA COUNTY HIGHLIGHTS

County Established	March 11, 1893
County Seat	Madera (city)
Population[a]	152,925
Total County Acreage	1,366,925
2011 Harvested Acreage	669,490
Field Crop Acreage	97,000
Fruit and Nut Acreage	214,920
Nursery Acreage	440
Vegetable Acreage	4,130
Rangeland Acreage	353,000
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]	14
Commodity, by Value	
Figs	1
Grapes, Raisin Variety	2
Pistachios	4
Almonds	5
Grapes, Table Variety	5
Cattles & Calves	7
Corn, Silage	7
Grapes, Wine Variety	7
Olives	7
Milk, Market	9

Ranking of Madera County Among Counties of the United States

Total Agricultural Production[c]	21

a/ US Bureau of Census, 2011 Estimate
b/ County Agricultural Commissioner's Data, 2010
c/ USDA Ag Census, 2007

Madera County Crop Reports from 2001 to 2011 are available at:
http://www.madera-county.com/agcommissioner/cropreports/index.html

Field Crops

Item	Year	PRODUCTION Harvested Acreage	Per Acre	Total	Unit	VALUE Per Unit	Total
Alfalfa							
Hay	**2011**	**20,200**	**7.64**	**154,328**	**Ton**	**$236.00**	**$36,421,000**
	2010	28,900	6.09	176,001	Ton	133.00	23,408,000
	2009	30,000	7.00	210,000	Ton	113.00	23,730,000
Silage[a]	**2011**			**52,764**	**Ton**	**53.00**	**2,796,000**
	2010			62,522	Ton	34.00	2,126,000
	2009			52,710	Ton	30.00	1,581,000
Total	**2011**	**20,200**					**39,217,000**
	2010	28,900					25,534,000
	2009	30,000					25,311,000
Beans, Dry[b]	**2011**	**-**	**-**	**-**	-	**-**	**-**
	2010	**-**	**-**	**-**	-	**-**	**-**
	2009	620	1.51	936	Ton	742.00	695,000
Corn							
Grain	**2011**	**1,300**	**6.89**	**8,957**	**Ton**	**244.00**	**2,186,000**
	2010	1,100	5.49	6,039	Ton	192.00	1,159,000
	2009	1,100	5.51	6,061	Ton	178.00	1,079,000
Silage	**2011**	**24,400**	**27.00**	**658,800**	**Ton**	**40.00**	**26,352,000**
	2010	21,300	26.94	573,822	Ton	30.00	17,215,000
	2009	19,700	25.25	497,425	Ton	25.00	12,436,000
Total	**2011**	**25,700**					**28,538,000**
	2010	22,400					18,374,000
	2009	20,800					13,515,000
Cotton							
Lint	**2011**	**5,500**	**1,554**[c]	**17,806**	**Bale**[d]	**1.11**[e]	**9,487,000**
	2010	4,100	1,561	13,334	Bale	1.20	7,680,000
	2009	330	1,123	772	Bale	0.72	267,000
Seed	**2011**			**7,124**	**Ton**	**289.00**	**2,059,000**
	2010			5,328	Ton	237.00	1,263,000
	2009			310	Ton	290.00	90,000
Oat							
Hay	**2011**	**3,600**	**2.38**	**8,568**	**Ton**	**124.00**	**1,062,000**
	2010	3,100	2.08	6,448	Ton	81.00	522,000
	2009	3,400	2.14	7,276	Ton	72.00	524,000
Pasture							
Irrigated	**2011**	**2,700**			**Acre**	**150.00**	**405,000**
	2010	3,300			Acre	150.00	495,000
	2009	3,300			Acre	150.00	495,000
Rangeland	**2011**	**353,000**			**Acre**	**15.00**	**5,295,000**
	2010	353,000			Acre	12.00	4,236,000
	2009	353,000			Acre	12.00	4,236,000

Photo: Corn silage harvest by Thomas Hagopian/Grower

Field Crops

Item	Year	PRODUCTION Harvested Acreage	PRODUCTION Per Acre	PRODUCTION Total	VALUE Unit	VALUE Per Unit	VALUE Total
Wheat							
Grain	**2011**	**7,600**	**2.84**	**21,584**	**Ton**	**$244.00**	**$5,266,000**
	2010	14,200	2.40	34,080	Ton	182.00	6,203,000
	2009	6,000	2.46	14,760	Ton	245.00	3,616,000
Silage	**2011**	**22,400**	**13.93**	**312,032**	**Ton**	**31.00**	**9,673,000**
	2010	17,800	14.98	266,644	Ton	21.00	5,600,000
	2009	16,500	14.40	237,600	Ton	18.00	4,277,000
Total	**2011**	**30,000**					**14,939,000**
	2010	32,000					11,803,000
	2009	22,500					7,893,000
Winter Forage	**2011**	**2,500**	**14.13**	**35,325**	**Ton**	**33.00**	**1,166,000**
	2010	2,700	16.81	45,387	Ton	20.00	908,000
	2009	3,400	12.17	41,378	Ton	18.00	745,000
Miscellaneous[f]	**2011**	**6,800**					**9,088,000**
	2010	8,900					8,601,000
	2009	12,100					7,451,000
TOTAL	**2011**	**450,000**					**$111,256,000**
	2010	458,400					79,416,000
	2009	449,450					*61,222,000**

a/ Alfalfa acreage yields both hay and silage
b/ Includes Black-eyes, Kidneys and Limas. 2010 & 2011 acreage & value included in Misc.
c/ Pounds
d/ Bale: 480 pounds
e/ Price per pound
f/ Includes barley (hay & silage), dried beans, safflower, sorghum, seed crops, Sudan grass, wheat hay, field and stubble straw.

* *Revised*

Vegetable Crops

Item	Year	PRODUCTION Harvested Acreage	PRODUCTION Per Acre	PRODUCTION Total	VALUE Unit	VALUE Per Unit	VALUE Total
Tomatoes							
Fresh	**2011**	**400**	**16.06**	**6,424**	**Ton**	**$440.00**	**$2,827,000**
	2010	320	16.22	5,190	Ton	425.00	2,206,000
	2009	400	15.80	6,320	Ton	441.00	2,787,000
Processed	**2011**	**2,100**	**55.92**	**117,432**	**Ton**	**65.00**	**7,633,000**
	2010	2,700	49.17	132,759	Ton	64.00	8,497,000
	2009	2,000	39.52	79,040	Ton	81.00	6,402,000
Miscellaneous[a]	**2011**	**1,630**					**23,601,000**
	2010	1,700					12,572,000
	2009	1,740					8,156,000
TOTAL	**2011**	**4,130**					**$34,061,000**
	2010	4,720					23,275,000
	2009	4,140					17,345,000

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

FRUIT & NUT CROPS

Item	Year	PRODUCTION Harvested Acreage	Per Acre	Total	Unit	VALUE Per Unit	Total
Almonds[a]	**2011**	**89,000**	**1.23**	**109,470[b]**	**Ton**	**$3,497.00**	**$382,817,000**
	2010	80,000	0.91	72,800	Ton	3,501.00	254,873,000
	2009	68,000	0.79	53,720	Ton	3,018.00	162,127,000
Almond Hulls	**2011**			**234,215**	**Ton**	**135.00**	**31,619,000**
	2010			155,758	Ton	103.00	16,043,000
	2009			114,936	Ton	86.00	9,884,000
Cherries	**2011**	**440**	**3.72**	**1,637**	**Ton**	**3,456.00**	**5,657,000**
	2010	400	5.23	2,092	Ton	2,713.00	5,676,000
	2009	380	4.84	1,839	Ton	2,648.00	4,870,000
Figs	**2011**	**5,700**	**1.80**	**10,260**	**Ton**	**1,471.00**	**15,092,000**
	2010	6,750	1.95	13,163	Ton	1,518.00	19,981,000
	2009	6,280	1.70	10,676	Ton	1,511.00	16,131,000
Grapes							
Raisin Varieties							
Crushed	**2011**	**10,500**	**10.66**	**111,930**	**Ton**	**260.00**	**29,102,000**
	2010	10,000	9.29	92,900	Ton	212.00	19,695,000
	2009	10,900	7.60	82,840	Ton	165.00	13,669,000
Dried	**2011**	**22,300**	**2.58**	**57,534**	**Ton**	**1,530.00**	**88,027,000**
	2010	21,000	2.60	54,600	Ton	1,321.00	72,127,000
	2009	21,100	2.80	59,080	Ton	1,139.00	67,292,000
Fresh	**2011**	**1,000**	**10.90**	**10,900**	**Ton**	**1,417.00**	**15,445,000**
	2010	900	10.30	9,270	Ton	1,001.00	9,279,000
	2009	1,020	10.05	10,251	Ton	856.00	8,775,000
Table Varieties	**2011**	**2,250**	**9.72**	**21,870**	**Ton**	**1,578.00**	**34,511,000**
	2010	2,300	9.41	21,643	Ton	1,424.00	30,820,000
	2009	2,060	9.90	20,394	Ton	1,510.00	30,795,000
Wine Varieties[c]							
Red Varieties	**2011**	**23,400**	**10.44**	**244,296**	**Ton**	**335.00**	**81,839,000**
	2010	22,400	10.25	229,600	Ton	257.00	59,007,000
	2009	23,500	10.43	245,105	Ton	262.00	64,218,000
White Varieties	**2011**	**15,000**	**11.54**	**173,100**	**Ton**	**299.00**	**51,757,000**
	2010	15,200	11.32	172,064	Ton	243.00	41,812,000
	2009	15,900	10.42	165,678	Ton	248.00	41,088,000
Total Grapes	**2011**	**74,450**					**300,681,000**
	2010	71,800					232,740,000
	2009	74,480					*225,837,000**
Olives	**2011**	**1,100**	**1.76**	**1,936**	**Ton**	**618.00**	**1,196,000**
Fresh & Oil	2010	1,380	4.76	6,569	Ton	793.00	5,209,000
	2009	1,100	0.57	627	Ton	1,116.00	700,000

* *Revised*

FRUIT & NUT CROPS

Item	Year	PRODUCTION Harvested Acreage	PRODUCTION Per Acre	PRODUCTION Total	PRODUCTION Unit	VALUE Per Unit	VALUE Total
Oranges	**2011**	**3,400**	**18.40**	**62,560**	**Ton**	**$215.00**	**$13,450,000**
	2010	3,430	12.74	43,698	Ton	168.00	7,341,000
	2009	3,550	12.64	44,872	Ton	187.00	8,391,000
Peaches							
Cling	**2011**	**260**	**15.30**	**3,978**	**Ton**	**291.00**	**1,158,000**
	2010	320	16.00	5,120	Ton	310.00	1,587,000
	2009	340	16.21	5,512	Ton	318.00	1,753,000
Freestone	**2011**	**630**	**15.99**	**10,074**	**Ton**	**621.00**	**6,256,000**
	2010	740	12.84	9,502	Ton	493.00	4,684,000
	2009	770	11.48	8,840	Ton	527.00	4,659,000
Pistachios	**2011**	**28,300**	**0.97**	**27,451[b]**	**Ton**	**4,120.00**	**113,098,000**
	2010	28,000	1.74	48,720	Ton	4,920.00	239,702,000
	2009	27,700	0.84	23,268	Ton	3,520.00	81,903,000
Plums[d]	**2011**	**-**	**-**	**-**	**-**	**-**	**-**
	2010	-	-	-	-	-	-
	2009	180	8.55	1,539	Ton	904.00	1,391,000
Plums, Dried	**2011**	**1,200**	**3.71**	**4,452**	**Ton**	**1,383.00**	**6,157,000**
	2010	1,100	3.62	3,982	Ton	1,437.00	5,722,000
	2009	1,290	3.45	4,451	Ton	1,445.00	6,431,000
Walnuts	**2011**	**1,340**	**1.54**	**2,064**	**Ton**	**2,749.00**	**5,674,000**
	2010	1,250	1.78	2,225	Ton	1,867.00	4,154,000
	2009	1,200	1.53	1,836	Ton	1,674.00	3,073,000
Miscellaneous							
Fruits & Nuts[e]	**2011**	**9,100**					**39,919,000**
	2010	4,800					33,834,000
	2009	4,190					23,531,000
Orchard	**2011**			**6,500**	**Cord**		**975,000**
Firewood	2010			6,500	Cord		975,000
	2009			7,000	Cord		980,000
TOTAL	**2011**	**214,920**					**$923,749,000**
	2010	199,970					832,521,000
	2009	189,460					552,033,000

a/ Meat basis
b/ Reflects total production, including imperfect stock; price weighted accordingly
c/ Includes table grape crushed
d/ 2010 & 2011 harvested acreage & value included in Miscellaneous Fruits & Nuts
e/ Includes apples, apricots, berries, kiwis, nectarines, pears, pecans, persimmons, plums pomegranates, tangelos, tangerines, almond and walnut shells

Photo: Persimmons by Thomas Hagopian/Grower

FOREST PRODUCTS

Item	Year	PRODUCTION Production	Unit	VALUE Total Value
Timber	**2011**	**3,839**	**MBF[a]**	**$282,000**
	2010	3,353	MBF	225,000
	2009	280	MBF	36,000
Firewood	**2011**	**1,745**	**Cord[b]**	**204,000[c]**
	2010	2,075	Cord	228,000
	2009	1,380	Cord	287,000
TOTAL	**2011**			**$486,000**
	2010			453,000
	2009			323,000

a/ Thousand Board Feet
b/ Cord: 128 cubic feet
c/ Includes value for Christmas trees, greenery, pinecones and saw logs

NURSERY PRODUCTS

Item	Year	PRODUCTION Field Acres	House Sq. Foot	VALUE Total Value
Nursery Stock[a]	**2011**	**440**	**532,000**	**$19,057,000**
	2010	840	653,000	24,445,000
	2009	740	669,000	26,081,000

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

APIARY PRODUCTS

Item	Year	PRODUCTION Total	Unit	VALUE Per Unit	Total
Apiary Products					
Beeswax	**2011**	**41,500**	**Pound**	**$1.18**	**$49,000**
	2010	30,000	Pound	2.04	61,000
	2009	22,000	Pound	2.12	47,000
Honey	**2011**	**515,000**	**Pound**	**1.50**	**773,000**
	2010	781,000	Pound	1.43	1,117,000
	2009	611,000	Pound	1.26	770,000
Pollination	**2011**	**194,000**	**Colony**	**144.00**	**27,936,000**
	2010	190,000	Colony	139.00	26,410,000
	2009	141,000	Colony	138.00	19,458,000
TOTAL	**2011**				**$28,758,000**
	2010				27,690,000
	2009				20,275,000

Photo: Beehive brood frame; used with permission by the American Beekeeping Federation

LIVESTOCK AND POULTRY

Item	Year	PRODUCTION Head	Liveweight	Unit	VALUE Per Unit	Total
Cattles and Calves[a]	**2011**	**78,500**	**567,800**	**CWT[b]**	**$80.00**	**$45,424,000**
	2010	76,300	551,720	CWT	79.00	43,586,000
	2009	81,040	596,220	CWT	68.00	40,543,000
Replacement Heifers[c]	**2011**	**30,000**			**1,340.00**	**40,200,000**
	2010	29,200			1,310.00	38,252,000
	2009	28,520			1,210.00	34,509,000
Poultry	**2011**					**22,097,000**
	2010					22,994,000
	2009					24,531,000
TOTAL	**2011**					**$107,721,000**
	2010					104,832,000
	2009					99,583,000

a/ Range and dairy cattle sold for beef
b/ Hundredweight: 100 pounds
c/ Milk cows

LIVESTOCK AND POULTRY PRODUCTS

Item	Year	PRODUCTION Production	Unit	VALUE Per Unit	Total
Milk Market[a]	**2011**	**17,780,987**	**CWT**	**$18.33**	**$325,946,000**
	2010	15,671,924	CWT	14.52	227,556,000
	2009	14,382,349	CWT	11.25	161,758,000
Milk Manufacturing[a]	**2011**	**65,222**	**CWT**	**18.84**	**1,229,000**
	2010	621,409	CWT	14.57	9,054,000
	2009	571,168	CWT	12.08	6,897,000
Other Products[b]	**2011**				**17,258,000**
	2010				19,365,000
	2009				18,019,000
TOTAL	**2011**				**$344,433,000**
	2010				255,975,000
	2009				186,674,000

a/ Madera County has 49 dairies, with 68,183 lactating cows
b/ Includes aquaculture, ducks, market eggs, hogs, manure, sheep, lambs and wool

Photo: dairy cow by Peggy Greb

Sustainable Agriculture Report 2011

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.

During 2011, eighteen nursery locations were inspected to ensure pest cleanliness. Over 390 shipments of plant materials, received by nurseries, were inspected for potentially injurious pests prior to retail sale.

Over twenty beehive shipments from Red Imported Fire Ants (RIFA) infested states, with over 10,000 beehives, were inspected for RIFA. RIFA were found on three beehive shipments in January and February of 2011.

During 2011, over seventy countries received agricultural commodities, which required certification that the commodities were free from potentially injurious pests. Over 3,700 phytosanitary inspections were performed on Madera County commodities destined for export.

The **Pest Detection Program** utilizes insect traps and surveys for the detection of foreign pests which may have eluded exclusion efforts. Over 1,160 traps were deployed in the county, with over 11,400 trap servicings performed during the 2011 season. The trapping program in Madera County targeted multiple pests, including the following:

Caribbean Fruit Fly, European Corn Borer, Gypsy Moth, Japanese Beetle, Khapra Beetle, Light Brown Apple Moth, Mediterranean Fruit Fly, Melon Fruit Fly, Mexican Fruit Fly, Oriental Fruit Fly

Honey Is...

Honey is honey, it's just that simple. A bottle of pure honey contains the natural sweet substance produced by honey bees from the nectar of plants or secretions of living parts of plants. Nothing else.

Honey is made by bees in one of the world's most efficient facilities, the beehive. The 60,000 or so bees in a beehive may collectively travel as much as 55,000 miles and visit more than two million flowers to gather enough nectar to make just a pound of honey!

The color and flavor of honey differ depending on the bees' nectar source (the blossoms). In fact, there are more than 300 unique kinds of honey in the United States, originating from such diverse floral sources as Clover, Eucalyptus and Orange Blossoms. In general, lighter colored honeys are mild in flavor, while darker honeys are usually more robust in flavor.

Honey Is...: text courtesy of the National Honey Board/www.honey.com

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. In 2011, plowdown of over 5,500 acres of cotton was verified, ensuring the destruction of habitat supportive of this pest.

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 299 traps, with 5,466 subsequent trap servicing in 2011. In addition, incoming shipments of host material and susceptible county plantings were inspected. Multiple Glassy-winged Sharpshooters were found in Madera and Chowchilla. Our office deployed over 800 delimitation traps throughout the find sites, with over 16,900 subsequent trap servicings. Treatment was performed on and around the find sites.

The **Vertebrate Pest Management Program** provides expertise and materials, to growers and homeowners, for the control of certain depredating vertebrate pests.

Fifty-five **Organic Farms**, totaling more than 6,200 acres, two handlers and one processor, were registered in Madera County in 2011. 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, arugula, dried beans, green beans, beets, berries, broccoli, brussels sprouts, cabbage, cauliflower, cantaloupe, carrots, chard, cherries, collards, sweet corn, cucumbers, eggplant, endive, fennel, figs, garlic, grapes (table, raisin, wine), hay, herbs, honeydew, kale, kohlrabi, leeks, lettuce, livestock, okra, olives, onions, peaches, peas, peppers, persimmons, pistachios, dried plums, pomegranates, potatoes, radish, seed crops, spinach, squash, sunflower, tomatoes, turnips, watermelons, yams.

The value of organic production in Madera County during 2011 was **$16,123,000.**

About the Honey Bee…

On average, a worker bee in the summer lasts six to eight weeks. Their most common cause of death is wearing their wings out. During that six to eight-week period, their average honey production is 1/12 of a teaspoon. In that short lifetime, they fly the equivalent of 1 1/2 times the circumference of the earth.

The peak population of a colony of honeybees is usually at mid-summer (after spring buildup) and results in 60,000 to 80,000 bees per colony. A good, prolific queen can lay up to 3,000 eggs per day.

Picture of beehive entrance and About the Honey Bee text used with permission by the American Beekeeping Federation

AGRICULTURAL CROP REPORT SUMMARY
MADERA COUNTY 2011

Item	Year	Harvested Acres	Total Value
Apiary	**2011**		**$28,758,000**
	2010		27,690,000
	2009		20,275,000
Field Crops	**2011**	**450,000**	**111,256,000**
	2010	458,400	79,416,000
	2009	449,450	*61,222,000**
Fruit and Nut Crops	**2011**	**214,920**	**923,749,000**
	2010	199,600	832,521,000
	2009	189,460	552,033,000
Forest Products	**2011**		**486,000**
	2010		453,000
	2009		323,000
Livestock and Poultry	**2011**		**107,721,000**
	2010		104,832,000
	2009		99,583,000
Livestock and Poultry Products	**2011**		**344,433,000**
	2010		255,975,000
	2009		186,674,000
Nursery Products	**2011**	**440**	**19,057,000**
	2010	840	24,445,000
	2009	740	26,081,000
Vegetable Crops	**2011**	**4,130**	**34,061,000**
	2010	4,720	23,275,000
	2009	4,140	17,345,000
TOTAL	**2011**		**$1,569,521,000**
	2010		1,348,505,000
	2009		*963,536,000**

** Revised*

Honey Bees: Their Value to Crop Pollination

Unlike people in other countries of the world, consumers in the United States enjoy delicious, nutritious and affordable agricultural products year-round. America's farmers feed more and more people each year while using less land to do so.

Honey bees are a critical component of this agricultural picture. As honey bees visit blossoms to gather the nectar and pollen necessary for their survival, they help agricultural crops, home gardens and wildlife habitats flourish. Simply put, pollination is the first indispensable step in a process that results in the production of fruits, vegetables, nuts and seeds. Without the honey bees' pollination work, the quantity and quality of many crops would be reduced and some would not yield at all. Almonds are the leading crop in Madera County with a value of $414,436,000 (2011 Crop Report). Without the honey bees' pollination work it would be impossible to commercially produce this crop.

The USDA has estimated that 80 percent of insect crop pollination is accomplished by honey bees. To meet the demands of agriculture, however, special efforts are required. About one-half of the full-time beekeepers in the United States move their colonies from state to state and field to field during the year to provide pollination services to farmers as well as to reach abundant sources of nectar for honey production.

California has the largest beekeeping industry of any state in the U.S. Commercial beekeepers move their hives at least six times each year to pollinate crops or to place them near natural food sources for bees. Most of the hives of bees in California are rented one or more times a year for pollination of agricultural crops. Nearly 3/4 of the country's documented commercial honey bee crop pollination is conducted in California.

Pollination by honey bees is as vital to the production of many crops as water and sunlight. There is no substitute! One third of our daily diet relies on honey bee pollination. Including the "indirect" value of honey bee pollination (meat, dairy products, vegetables, hay, etc.), honey bees are responsible for nearly half of California's agricultural production (cash receipts for farm marketing). Thus, honey bee pollination is really worth in excess of 400 times the intrinsic earning power of the bees to beekeepers.

Excerpt from: The Story of Pollination by the National Honey Board/www.honey.com
Excerpt from: Don't Underestimate the Value of Honey Bees! by Eric C. Mussen, Ph.D., UC Extension Apiculturist

Photo: Honey bee on sweet clover by Alexander Wild/www.Alexanderwild.com

"A healthy beekeeping industry is vitally important to a healthy agricultural economy, to wildlife habitat, to a healthy environment - and to the plants in your own backyard."

– Gene Brandi, *Beekeeper*

Madera County

Department of Agriculture/Weights and Measures

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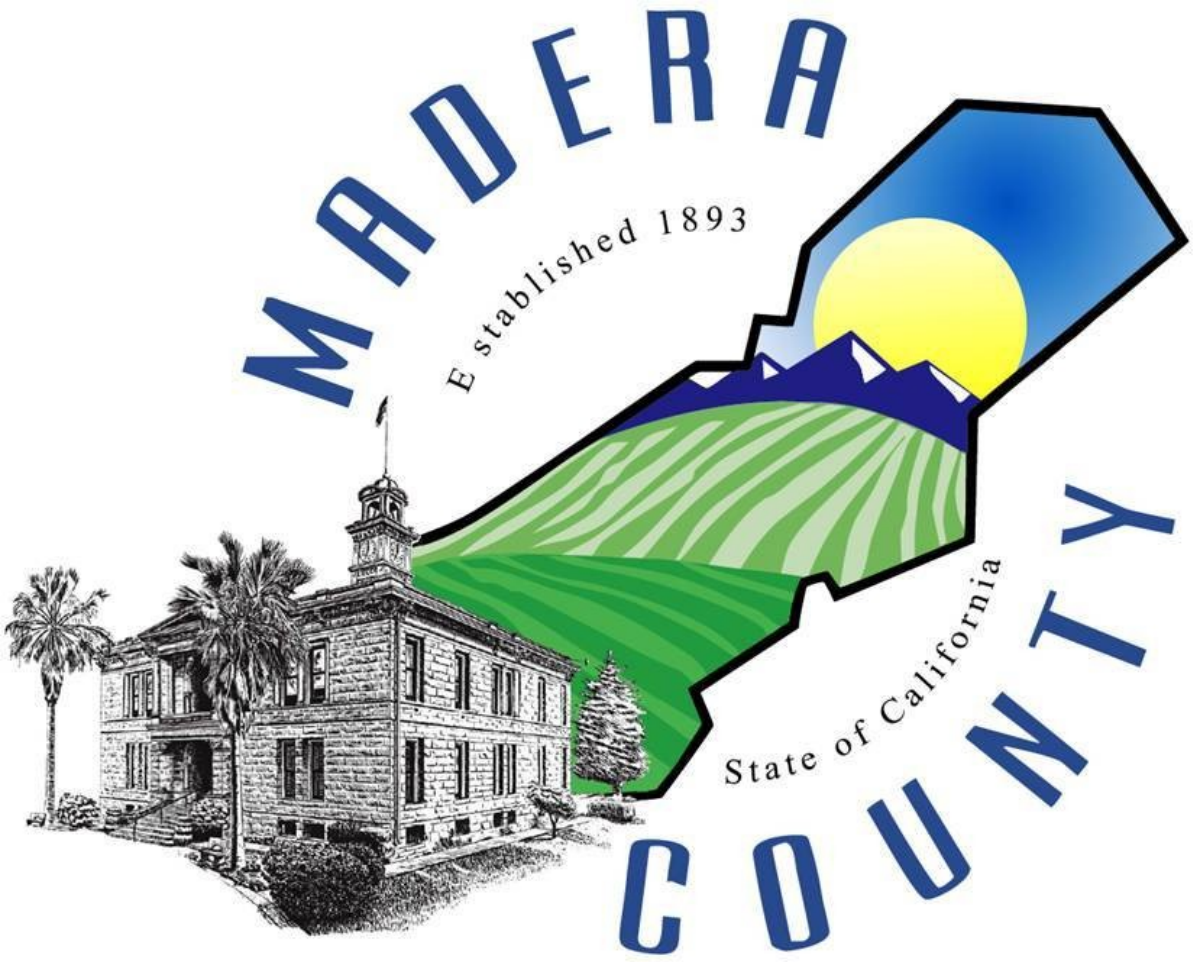
2012 AGRICULTURAL CROP REPORT



MADERA COUNTY DEPARTMENT OF AGRICULTURE

MADERA COUNTY STAFF

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District 1

David Rogers
District 2

Rick Farinelli
District 3

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District 4

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Stephanie " Stevie" McNeill, Agricultural Commissioner
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Jay Seslowe, Assistant Agricultural
Commissioner/Sealer

Karen Ross, Secretary
California Department of Food and Agriculture

and

The Honorable Board of Supervisors
County of Madera, California

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

It is my pleasure to present the 2012 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 gross values of Madera County Agricultural commodities. It is important to note that the values presented in this report do not represent net income or loss to producers.

The 2012 gross value of Madera County agricultural commodities set a new record of $1,739,411,000; this is an increase of $169,890,000 (10.82%) over 2011 production.

Almonds retained the top crop rank for the third year in a row, with a value of $487,358,000, an increase of $72,922,000 (17.59%), mainly due to strong prices. Grapes surpassed milk to become the second highest ranking crop, with an increase of $60,039,000 (19.97%) due to an increase in prices. Milk fell to the third spot with a value of $288,768,000, a decrease of $38,407,000 (-11.74%), due to lower total milk production and prices.

Increases were seen in apiary (7.24%) primarily due to increases in honey production and price; fruit and nut crops (23.10%) due mainly to stronger prices; forest products (124.28%) attributed to an increase in board feet; livestock and poultry (9.02%) due to improving prices, and vegetable crops (2.26%) mainly reflecting increased yields in fresh and processing tomatoes. Decreases were seen in field crops (-6.16%) with decreases in corn yields, decreases in cotton acreage and price, and decreased wheat acreage; livestock and poultry products (-13.89%) primarily due to decreased production and prices; and nursery products (-10.22%) due to reduced acreage.

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 2012 Madera County Agricultural and Livestock Report, or previous reports, please visit our website online at http://madera-county.com/agcommissioner/cropreports/index.html.

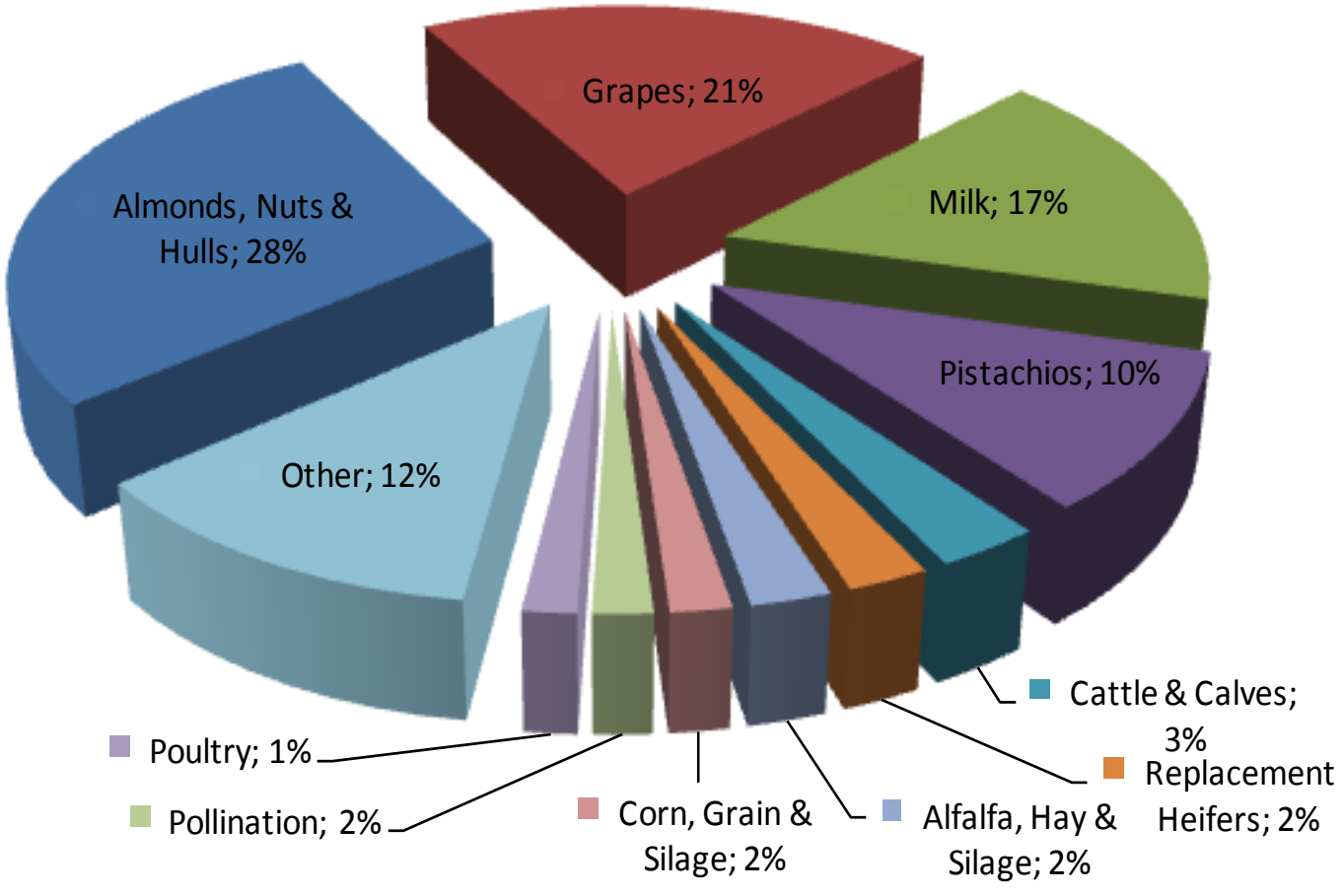
Respectfully submitted,

Stevie McNeill
Agricultural Commissioner/Sealer

TEN LEADING CROPS
MADERA COUNTY 2012

Commodity	2012 Rank	2012 Dollar Value	2011 Rank
Almonds, Nuts & Hulls	1	$487,358,000	1
Grapes	2	$360,720,000	3
Milk	3	$288,768,000	2
Pistachios	4	$181,238,000	4
Cattle & Calves	5	$51,415,000	5
Replacement Heifers	6	$39,900,000	6
Alfalfa, Hay & Silage	7	$39,198,000	7
Corn, Grain & Silage	8	$29,802,000	8
Pollination	9	$28,917,000	9
Poultry	10	$26,150,000	10

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, dairy and beef cattle, nursery stock, field crops, poultry and apiary pollination. 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 citrus, corn, honey, nursery stock, peaches, seed crops, tomatoes and wheat.



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		PRODUCTION				VALUE	
Item	Year	Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Alfalfa							
Hay	**2012**	**22,200**	**7.24**	**160,728**	**Ton**	**$227.00**	**$36,485,000**
	2011	20,200	7.64	154,328	Ton	236.00	36,421,000
	2010	28,900	6.09	176,001	Ton	133.00	23,408,000
Silage[a]	**2012**			**43,060**	**Ton**	**63.00**	**2,713,000**
	2011			52,764	Ton	53.00	2,796,000
	2010			62,522	Ton	34.00	2,126,000
Total	**2012**	**22,200**					**39,198,000**
	2011	20,200					39,217,000
	2010	28,900					25,534,000
Corn							
Grain	**2012**	**1,700**	**5.74**	**9,758**	**Ton**	**265.00**	**2,586,000**
	2011	1,300	6.89	8,957	Ton	244.00	2,186,000
	2010	1,100	5.49	6,039	Ton	192.00	1,159,000
Silage	**2012**	**22,800**	**25.95**	**591,660**	**Ton**	**46.00**	**27,216,000**
	2011	24,400	27.00	658,800	Ton	40.00	26,352,000
	2010	21,300	26.94	573,822	Ton	30.00	17,215,000
Total	**2012**	**24,500**					**29,802,000**
	2011	25,700					28,538,000
	2010	22,400					18,374,000
Cotton							
Lint	**2012**	**1,200**	**1,527[b]**	**3,818**	**Bale[c]**	**0.87[d]**	**1,594,000**
	2011	5,500	1,554	17,806	Bale	1.11	9,487,000
	2010	4,100	1,561	13,334	Bale	1.20	7,680,000
Seed	**2012**			**1,527**	**Ton**	**317.00**	**484,000**
	2011			7,124	Ton	289.00	2,059,000
	2010			5,328	Ton	237.00	1,263,000
Total	**2012**	**1,200**					**2,078,000**
	2011	5,500					11,546,000
	2010	4,100					8,943,000
Oat							
Hay	**2012**	**3,400**	**2.72**	**9,248**	**Ton**	**155.00**	**1,433,000**
	2011	3,600	2.38	8,568	Ton	124.00	1,062,000
	2010	3,100	2.08	6,448	Ton	81.00	522,000
Pasture							
Irrigated	**2012**	**1,500**			**Acre**	**150.00**	**225,000**
	2011	2,700			Acre	150.00	405,000
	2010	3,300			Acre	150.00	495,000
Rangeland	**2012**	**353,000**			**Acre**	**15.00**	**5,295,000**
	2011	353,000			Acre	15.00	5,295,000
	2010	353,000			Acre	12.00	4,236,000

Field Crops

Item	Year	PRODUCTION Harvested Acreage	PRODUCTION Per Acre	PRODUCTION Total	VALUE Unit	VALUE Per Unit	VALUE Total
Wheat							
Grain	**2012**	**6,700**	**2.22**	**14,874**	**Ton**	**$250.00**	**$3,719,000**
	2011	7,600	2.84	21,584	Ton	244.00	5,266,000
	2010	14,200	2.40	34,080	Ton	182.00	6,203,000
Silage	**2012**	**21,000**	**14.52**	**304,920**	**Ton**	**37.00**	**11,282,000**
	2011	22,400	13.93	312,032	Ton	31.00	9,673,000
	2010	17,800	14.98	266,644	Ton	21.00	5,600,000
Total	**2012**	**27,700**					**15,001,000**
	2011	30,000					14,939,000
	2010	32,000					11,803,000
Winter Forage	**2012**	**3,400**	**12.65**	**43,010**	**Ton**	**41.00**	**1,763,000**
	2011	2,500	14.13	35,325	Ton	33.00	1,166,000
	2010	2,700	16.81	45,387	Ton	20.00	908,000
Miscellaneous[e]	**2012**	**5,900**					**9,611,000**
	2011	6,800					9,088,000
	2010	8,900					8,601,000
TOTAL	**2012**	**442,800**					**$104,406,000**
	2011	450,000					111,256,000
	2010	458,400					79,416,000

a/ Alfalfa acreage yields both hay and silage
b/ Pounds
c/ Bale: 480 pounds
d/Price per pound
e/Includes barley (hay & silage), dried beans, seed crops, Sudangrass, wheat hay, field and stubble straw.

Vegetable Crops

Item	Year	PRODUCTION Harvested Acreage	PRODUCTION Per Acre	PRODUCTION Total	VALUE Unit	VALUE Per Unit	VALUE Total
Tomatoes							
Fresh	**2012**	**400**	**23.29**	**9,316**	**Ton**	**$448.00**	**$4,174,000**
	2011	400	16.06	6,424	Ton	440.00	2,827,000
	2010	320	16.22	5,190	Ton	425.00	2,206,000
Processed	**2012**	**3,000**	**67.36**	**202,080**	**Ton**	**68.00**	**13,741,000**
	2011	2,100	55.92	117,432	Ton	65.00	7,633,000
	2010	2,700	49.17	132,759	Ton	64.00	8,497,000
Miscellaneous[a]	**2012**	**1,900**					**16,917,000**
	2011	1,630					23,601,000
	2010	1,700					12,572,000
TOTAL	**2012**	**5,300**					**$34,832,000**
	2011	4,130					34,061,000
	2010	4,720					23,275,000

a/ Includes artichokes, carrots, all cabbage, eggplant, 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]	**2012**	**92,000**	**1.08**	**99,360[b]**	**Ton**	**$4,614.00**	**$458,447,000**
	2011	89,000	1.23	109,470	Ton	3,497.00	382,817,000
	2010	80,000	0.91	72,800	Ton	3,501.00	254,873,000
Almond Hulls	**2012**			**212,584**	**Ton**	**136.00**	**28,911,000**
	2011			234,215	Ton	135.00	31,619,000
	2010			155,758	Ton	103.00	16,043,000
Cherries	**2012**	**460**	**3.91**	**1,799**	**Ton**	**5,319.00**	**9,569,000**
	2011	440	3.72	1,637	Ton	3,456.00	5,657,000
	2010	400	5.23	2,092	Ton	2,713.00	5,676,000
Figs	**2012**	**5,400**	**1.59**	**8,586**	**Ton**	**1,690.00**	**14,510,000**
	2011	5,700	1.80	10,260	Ton	1,471.00	15,092,000
	2010	6,750	1.95	13,163	Ton	1,518.00	19,981,000
Grapes							
Raisin Varieties							
Crushed	**2012**	**11,000**	**8.56**	**94,160**	**Ton**	**312.00**	**29,378,000**
	2011	10,500	10.66	111,930	Ton	260.00	29,102,000
	2010	10,000	9.29	92,900	Ton	212.00	19,695,000
Dried	**2012**	**22,800**	**2.59**	**59,052**	**Ton**	**1,720.00**	**101,569,000**
	2011	22,300	2.58	57,534	Ton	1,530.00	88,027,000
	2010	21,000	2.60	54,600	Ton	1,321.00	72,127,000
Fresh	**2012**	**1,300**	**5.66**	**7,358**	**Ton**	**1,474.00**	**10,846,000**
	2011	1,000	10.90	10,900	Ton	1,417.00	15,445,000
	2010	900	10.30	9,270	Ton	1,001.00	9,279,000
Table Varieties	**2012**	**1,800**	**12.87**	**23,166**	**Ton**	**1,756.00**	**40,679,000**
	2011	2,250	9.72	21,870	Ton	1,578.00	34,511,000
	2010	2,300	9.41	21,643	Ton	1,424.00	30,820,000
Wine Varieties[c]							
Red	**2012**	**23,000**	**11.19**	**257,370**	**Ton**	**402.00**	**103,463,000**
Varieties	2011	23,400	10.44	244,296	Ton	335.00	81,839,000
	2010	22,400	10.25	229,600	Ton	257.00	59,007,000
White	**2012**	**17,100**	**11.82**	**202,122**	**Ton**	**370.00**	**74,785,000**
Varieties	2011	15,000	11.54	173,100	Ton	299.00	51,757,000
	2010	15,200	11.32	172,064	Ton	243.00	41,812,000
Total Grapes	**2012**	**77,000**					**360,720,000**
	2011	74,450					300,681,000
	2010	71,800					232,740,000

FRUIT & NUT CROPS

		PRODUCTION				VALUE	
Item	Year	Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Olives, Fresh & Oil	**2012**	**900**	**5.61**	**5,049**	**Ton**	**$713.00**	**$3,600,000**
	2011	1,100	1.76	1,936	Ton	618.00	1,196,000
	2010	1,380	4.76	6,569	Ton	793.00	5,209,000
Oranges	**2012**	**3,000**	**18.41**	**55,230**	**Ton**	**178.00**	**9,831,000**
	2011	3,400	18.40	62,560	Ton	215.00	13,450,000
	2010	3,430	12.74	43,698	Ton	168.00	7,341,000
Peaches							
Cling	**2012**	**310**	**20.64**	**6,398**	**Ton**	**306.00**	**1,958,000**
	2011	260	15.30	3,978	Ton	291.00	1,158,000
	2010	320	16.00	5,120	Ton	310.00	1,587,000
Freestone	**2012**	**450**	**14.56**	**6,552**	**Ton**	**932.00**	**6,106,000**
	2011	630	15.99	10,074	Ton	621.00	6,256,000
	2010	740	12.84	9,502	Ton	493.00	4,684,000
Total	**2012**	**760**					**8,064,000**
	2011	890					7,414,000
	2010	1,060					6,271,000
Pistachios	**2012**	**29,000**	**1.44**	**41,760**[b]	**Ton**	**4,354.00**	**181,238,000**
	2011	28,300	0.97	27,451	Ton	4,120.00	113,098,000
	2010	28,000	1.74	48,720	Ton	4,920.00	239,702,000
Plums, Dried	**2012**	**1,100**	**2.92**	**3,212**	**Ton**	**1,395.00**	**4,481,000**
	2011	1,200	3.71	4,452	Ton	1,383.00	6,157,000
	2010	1,100	3.62	3,982	Ton	1,437.00	5,722,000
Walnuts	**2012**	**1,300**	**2.04**	**2,652**	**Ton**	**2,911.00**	**7,720,000**
	2011	1,340	1.54	2,064	Ton	2,749.00	5,674,000
	2010	1,250	1.78	2,225	Ton	1,867.00	4,154,000
Miscellaneous							
Fruits & Nuts[d]	**2012**	**9,300**					**49,104,000**
	2011	9,100					39,919,000
	2010	4,800					33,834,000
Orchard	**2012**			**6,000**	Cord[e]		**900,000**
Firewood	2011			6,500	Cord		975,000
	2010			6,500	Cord		975,000
TOTAL	**2012**	**220,220**					**$1,137,095,000**
	2011	214,920					923,749,000
	2010	199,970					832,521,000

a/ Meat basis

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

c/ Includes table grape crushed

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

e/ Cord: 128 Cubic feet

FOREST PRODUCTS

		PRODUCTION		VALUE
Item	**Year**	**Production**	**Unit**	**Total**
Timber	**2012**	**9,900**	**MBF[a]**	**$810,000**
	2011	3,839	MBF	282,000
	2010	3,353	MBF	225,000
Firewood[b]	**2012**	**1,509**	**Cord[c]**	**280,000**
	2011	1,745	Cord	204,000
	2010	2,075	Cord	228,000
TOTAL	**2012**			**$1,090,000**
	2011			486,000
	2010			453,000

a/ MBF: Thousand board feet

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

c/ Cord: 128 Cubic feet

NURSERY PRODUCTS

		PRODUCTION		VALUE
Item	**Year**	**Field Acres**	**House Sq. Foot**	**Total**
Nursery Stock[a]	**2012**	**330**	**160,000**	**$17,109,000**
	2011	440	532,000	19,057,000
	2010	840	653,000	24,445,000

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

APIARY PRODUCTS

		PRODUCTION			VALUE
Item	**Year**	**Total**	**Unit**	**Per Unit**	**Total**
Apiary Products					
Beeswax	**2012**	**56,029**	**Pound**	**$2.35**	**$132,000**
	2011	41,500	Pound	1.18	49,000
	2010	30,000	Pound	2.04	61,000
Honey	**2012**	**958,000**	**Pound**	**1.87**	**1,791,000**
	2011	515,000	Pound	1.50	773,000
	2010	781,000	Pound	1.43	1,117,000
Pollination	**2012**	**189,000**	**Colony**	**153.00**	**28,917,000**
	2011	194,000	Colony	144.00	27,936,000
	2010	190,000	Colony	139.00	26,410,000
TOTAL	**2012**				**$30,840,000**
	2011				28,758,000
	2010				27,588,000

LIVESTOCK AND POULTRY

		PRODUCTION			VALUE	
Item	**Year**	**Head**	**Liveweight**	**Unit**	**Per Unit**	**Total**
Cattle and Calves[a]	**2012**	**78,200**	**565,000**	**CWT[b]**	**$91.00**	**$51,415,000**
	2011	78,500	567,800	CWT	80.00	45,424,000
	2010	76,300	551,720	CWT	79.00	43,586,000
Replacement Heifers[c]	**2012**	**30,000**			**1,330.00**	**39,900,000**
	2011	30,000			1,340.00	40,200,000
	2010	29,200			1,310.00	38,252,000
Poultry	**2012**					**26,125,000**
	2011					22,097,000
	2010					22,994,000
TOTAL	**2012**					**$117,440,000**
	2011					107,721,000
	2010					104,832,000

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]	**2012**	**17,732,572**	**CWT**	**$16.26**	**$288,346,000**
	2011	17,780,987	CWT	18.33	325,946,000
	2010	15,671,924	CWT	14.52	227,556,000
Milk Manufacturing[a]	**2012**	**24,955**	**CWT**	**16.91**	**422,000**
	2011	65,222	CWT	18.84	1,229,000
	2010	621,409	CWT	14.57	9,054,000
Other Products[b]	**2012**				**7,831,000**
	2011				17,258,000
	2010				19,365,000
TOTAL	**2012**				**$296,599,000**
	2011				344,433,000
	2010				255,975,000

a/ Madera County has 46 dairies, with 68,183 lactating cows

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

AGRICULTURAL CROP REPORT SUMMARY
MADERA COUNTY 2012

Item	Year	Harvested Acres	Total Value
Apiary	**2012**		**$30,840,000**
	2011		28,758,000
	2010		27,588,000
Field Crops	**2012**	**442,800**	**104,406,000**
	2011	450,000	111,256,000
	2010	458,400	79,416,000
Fruit and Nut Crops	**2012**	**220,220**	**1,137,095,000**
	2011	214,920	923,749,000
	2010	199,970	832,521,000
Forest Products	**2012**		**1,090,000**
	2011		486,000
	2010		453,000
Livestock and Poultry	**2012**		**117,440,000**
	2011		107,721,000
	2010		104,832,000
Livestock and Poultry Products	**2012**		**296,599,000**
	2011		344,433,000
	2010		255,975,000
Nursery Products	**2012**	**330**	**17,109,000**
	2011	440	19,057,000
	2010	840	24,445,000
Vegetable Crops	**2012**	**5,300**	**34,832,000**
	2011	4,130	34,061,000
	2010	4,720	23,275,000
TOTAL	**2012**		**$1,739,411,000**
	2011		1,569,521,000
	2010		1,348,505,000

MADERA COUNTY
HIGHLIGHTS

County Established	March 11, 1893
County Seat	Madera (city)
Population[a]	152,218
Total County Acreage	1,366,925
2012 Harvested Acreage	668,650
Field Crop Acreage	89,800
Fruit and Nut Acreage	220,220
Nursery Acreage	330
Vegetable Acreage	5,300
Rangeland Acreage	353,000
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]	12
Commodity, by Value	
Figs	1
Grapes, Raisin Variety	2
Pistachios	4
Almonds	5
Grapes, Table Variety	5
Grapes, Wine Variety	5
Cattle & Calves	7
Corn, Silage	7
Olives	7
Milk, Market	8
Ranking of Madera County Among Counties of the United States	
Total Agricultural Production[c]	21

a/ US Bureau of Census, 2012 Estimate
b/ County Agricultural Commissioner's Data, 2011
c/ USDA Ag Census, 2007

Madera County Crop Reports from 2001 to 2012 are available at:
http://www.madera-county.com/index.php/publications/crop-reports

Sustainable Agriculture Report 2012

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.

During 2012, four 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 over 60 countries.

The **Pest Detection Program** utilizes insect traps and surveys for the detection of foreign pests which may have eluded exclusion efforts. Over 900 traps were deployed in the county, with over 8,600 trap servicings performed during the 2012 season.

The trapping program in Madera County targeted multiple pests, including the following:

- Caribbean Fruit Fly *(Anastrepha suspenss)*
- European Corn Borer *(Ostrinia nubilalus)*
- 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 1,000 acres of cotton plantings.

Sustainable Agriculture Report 2012

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 370 traps, with over 4,400 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 and treatment was performed on and around the find sites. Additionally, the California Department of Food and Agriculture (CDFA) released three parasitic wasp (*Gonatocerus triguttatus, G. morrilli,* and *G. morgani)* in 2012 to aid in the control of the Glassy-winged Sharpshooters. Over 1,600 parasitoids were released in the Wildwood and Rolling Hills areas.

Fifty-two **Organic Farms**, totaling approximately 5,600 acres, two handlers and one processor, were registered in Madera County in 2012. 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, barley, basil, dried beans, green beans, beets, berries, broccoli, cabbage, cantaloupe, carrots, chard, cherries, cilantro, collards, sweet corn, cucumbers, daikon, eggplant, endive, escarole, fennel, figs, garlic, grapes (table, raisin, wine), hay, herbs, honeydew, kale, kohlrabi, leeks, lettuce, livestock, oats, oil crops, okra, olives, onions, parsnip, peaches, peas, peppers, persimmons, pistachios, prunes, pomegranates, potatoes, radish, radicchio, seed crops, sorghum, soybeans, spinach, squash, tomatillo, tomatoes, turnips, vetch, watermelons, wheat.

The value of organic production in Madera County in 2012 was **$15,725,000.**

Madera County

Department of Agriculture/Weights and Measures

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2013 AGRICULTURAL CROP REPORT

MADERA COUNTY DEPARTMENT OF AGRICULTURE

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Gloria Johnson
Ron Uyeno

Front cover: San Joaquin River at Friant Dam by Dan Bacher
Back cover: Friant Dam from Millerton Lake by Todd Fitchette

Madera County Department of Agriculture
Weights and Measures

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

Karen Ross, Secretary
California Department of Food and Agriculture

and

The Honorable Board of Supervisors	Tom Wheeler	Chairman, District 5
County of Madera, California	Manuel Nevarez	District 1
	David Rogers	District 2
	Rick Farinelli	District 3
	Max Rodriquez	District 4

It is my pleasure to present the 2013 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 gross values of Madera County Agricultural commodities. The values in this report are gross values, and do not represent net income or loss to producers.

The last four years have seen a steady increase in total commodity values, and in nine of the last ten years, Madera County commodity production has exceeded one billion dollars. Even as ongoing drought conditions in 2013 impacted growing conditions, Madera County reached a record high agricultural production level of $1,896,544,000; this is an increase of $157,133,000 (9.03%) over 2012 production.

Crop values can vary from year to year due to the variables of production, market, and weather conditions. Most increases can be attributed to strong market prices and increased production. Almonds (nut meat & hulls) retained the top crop rank for the fourth year in a row, with a value of $623,483,000, an increase of $136,125,000 (27.93%), mainly due to strong prices and increased bearing acreage. Grapes remained in second place, with a value of $373,835,000 (3.64% increase), and milk kept the third spot with a value of $323,112,000 (11.89% increase).

In overall categories, increases were seen in apiary (9.83%) primarily due to increases in price; fruit and nut crops (11.54%) due mainly to stronger almond market prices; forest products (16.06%) attributed to an increase in sawlog prices; livestock and poultry products (11.57%) due to improving prices; nursery products (10.51%) from recovering prices; and vegetable crops (16.79%) mainly reflecting increased acreage of processing tomatoes and strong prices for miscellaneous vegetables. Decreases were seen in field crops (-16.10%) with decreases in acreages and depressed prices of alfalfa, corn, oats, wheat and forage; and livestock and poultry (-2.13%) due to reductions in flock size.

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 2013 Madera County Agricultural and Livestock Report, or previous reports, please visit our website online at http://madera-county.com/index.php/publications/crop-reports

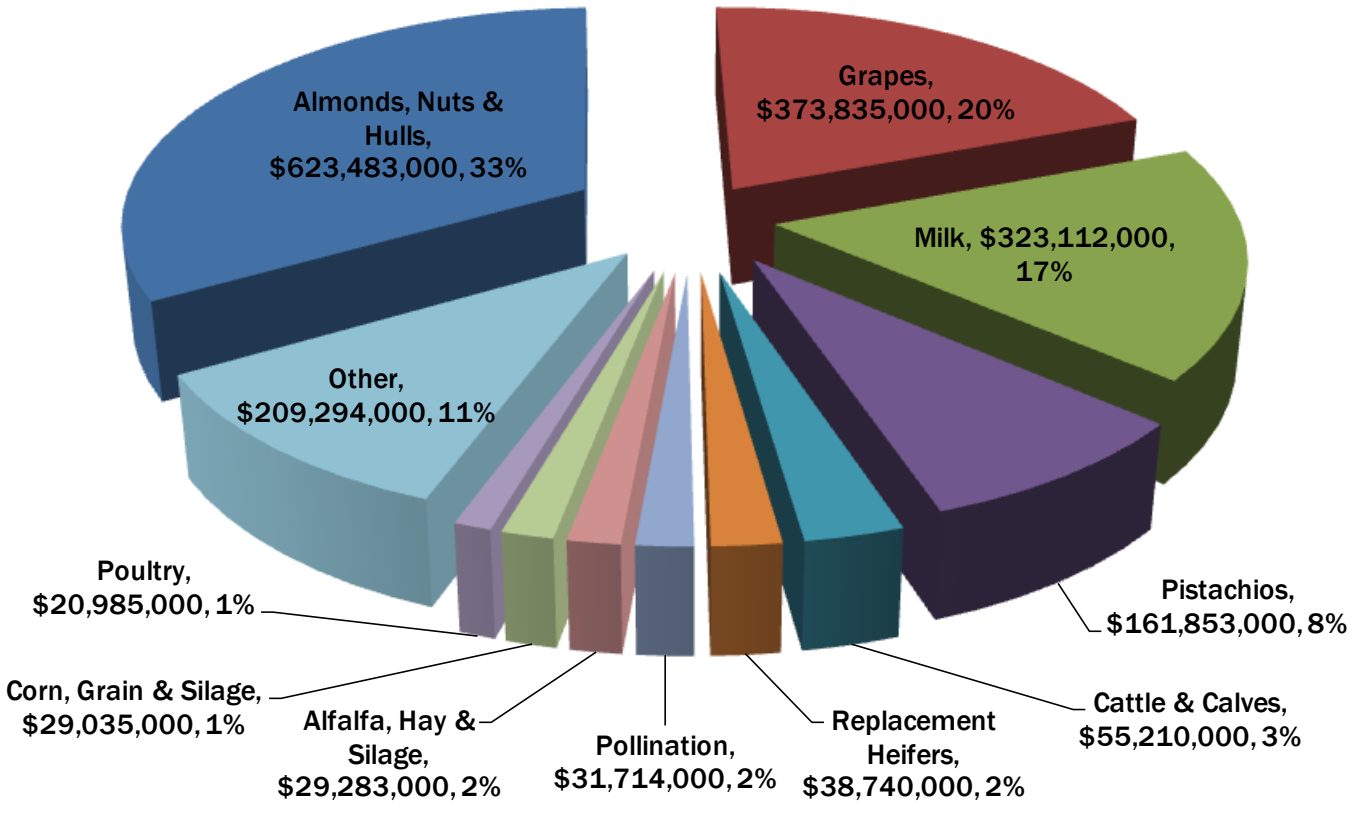
Respectfully submitted,

Stevie McNeill
Agricultural Commissioner/Sealer

TEN LEADING CROPS
MADERA COUNTY 2013

Commodity	2013 Rank	2013 Dollar Value	2012 Rank
Almonds, Nuts & Hulls	1	$623,483,000	1
Grapes	2	$373,835,000	2
Milk	3	$323,112,000	3
Pistachios	4	$161,853,000	4
Cattle & Calves	5	$55,210,000	5
Replacement Heifers	6	$38,740,000	6
Pollination	7	$31,714,000	9
Alfalfa, Hay & Silage	8	$29,283,000	7
Corn, Grain & Silage	9	$29,035,000	8
Poultry	10	$20,985,000	10

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, poultry, 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 cotton, figs, citrus fruits, olives, beeswax, timber and walnuts.



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Field Crops

Item	Year	PRODUCTION Harvested Acreage	PRODUCTION Per Acre	PRODUCTION Total	VALUE Unit	VALUE Per Unit	VALUE Total
Alfalfa							
Hay	**2013**	**17,300**	**7.63**	**131,999**	**Ton**	**$210.00**	**$27,720,000**
	2012	22,200	7.24	160,728	Ton	227.00	36,485,000
	2011	20,200	7.64	154,328	Ton	236.00	36,421,000
Silage[a]	**2013**			**23,684**	**Ton**	**66.00**	**1,563,000**
	2012			43,060	Ton	63.00	2,713,000
	2011			52,764	Ton	53.00	2,796,000
Total	**2013**	**17,300**					**29,283,000**
	2012	22,200					39,198,000
	2011	20,200					39,217,000
Corn							
Grain	**2013**	**940**	**6.19**	**5,819**	**Ton**	**220.00**	**1,280,000**
	2012	1,700	5.74	9,758	Ton	265.00	2,586,000
	2011	1,300	6.89	8,957	Ton	244.00	2,186,000
Silage	**2013**	**22,700**	**26.58**	**603,366**	**Ton**	**46.00**	**27,755,000**
	2012	22,800	25.95	591,660	Ton	46.00	27,216,000
	2011	24,400	27.00	658,800	Ton	40.00	26,352,000
Total	**2013**	**23,640**					**29,035,000**
	2012	24,500					29,802,000
	2011	25,700					28,538,000
Cotton							
Lint	**2013**	**1,700**	**1,646[b]**	**5,830**	**Bale[c]**	**1.08[d]**	**3,022,000**
	2012	1,200	1,527	3,818	Bale	0.87	1,594,000
	2011	5,500	1,554	17,806	Bale	1.11	9,487,000
Seed	**2013**			**2,387**	**Ton**	**335.00**	**800,000**
	2012			1,527	Ton	317.00	484,000
	2011			7,124	Ton	289.00	2,059,000
Total	**2013**	**1,700**					**3,893,000**
	2012	1,200					2,078,000
	2011	5,500					11,546,000
Oat							
Hay	**2013**	**1,700**	**2.87**	**4,879**	**Ton**	**148.00**	**722,000**
	2012	3,400	2.72	9,248	Ton	155.00	1,433,000
	2011	3,600	2.38	8,568	Ton	124.00	1,062,000
Pasture							
Irrigated	**2013**	**1,600**			**Acre**	**150.00**	**240,000**
	2012	1,500			Acre	150.00	225,000
	2011	2,700			Acre	150.00	405,000
Rangeland	**2013**	**392,900**			**Acre**	**7.50**	**2,947,000**
	2012	400,600[ef]			Acre	13.22[f]	5,295,000
	2011	400,600[ef]			Acre	13.22[f]	5,295,000

Field Crops

Item	Year	PRODUCTION Harvested Acreage	PRODUCTION Per Acre	PRODUCTION Total	Unit	VALUE Per Unit	VALUE Total
Wheat							
Grain	**2013**	**4,500**	**2.93**	**13,185**	**Ton**	**$262.00**	**$3,454,000**
	2012	6,700	2.22	14,874	Ton	250.00	3,719,000
	2011	7,600	2.84	21,584	Ton	244.00	5,266,000
Silage	**2013**	**24,600**	**14.79**	**363,834**	**Ton**	**37.00**	**13,462,000**
	2012	21,000	14.52	304,920	Ton	37.00	11,282,000
	2011	22,400	13.93	312,032	Ton	31.00	9,673,000
Total	**2013**	**29,100**					**16,916,000**
	2012	27,700					15,001,000
	2011	30,000					14,939,000
Winter Forage	**2013**	**1,800**	**13.98**	**25,164**	**Ton**	**36.00**	**906,000**
	2012	3,400	12.65	43,010	Ton	41.00	1,763,000
	2011	2,500	14.13	35,325	Ton	33.00	1,166,000
Miscellaneous[g]	**2013**	**2,300**					**3,721,000**
	2012	5,900					9,611,000
	2011	6,800					9,088,000
TOTAL	**2013**	**472,040**					**$87,592,000**
	2012	490,400[f]					104,406,000
	2011	497,600[f]					111,256,000

a/ Alfalfa acreage yields both hay and silage
b/ Pounds
c/ Bale: 480 pounds
d/ Price per pound
e/ Biennial survey cycle
f/ Revised
g/ Includes ryegrass hay, seed crops, Sudangrass, wheat hay, field and stubble straw.

Vegetable Crops

Item	Year	PRODUCTION Harvested Acreage	PRODUCTION Per Acre	PRODUCTION Total	Unit	VALUE Per Unit	VALUE Total
Tomatoes							
Fresh	**2013**	**400**	**17.33**	**6,932**	**Ton**	**$443.00**	**$3,071,000**
	2012	400	23.29	9,316	Ton	448.00	4,174,000
	2011	400	16.06	6,424	Ton	440.00	2,827,000
Processed	**2013**	**4,200**	**56.49**	**237,258**	**Ton**	**69.00**	**16,371,000**
	2012	3,000	67.36	202,080	Ton	68.00	13,741,000
	2011	2,100	55.92	117,432	Ton	65.00	7,633,000
Miscellaneous[a]	**2013**	**1,800**					**21,239,000**
	2012	1,900					16,917,000
	2011	1,630					23,601,000
TOTAL	**2013**	**6,400**					**$40,681,000**
	2012	5,300					34,832,000
	2011	4,130					34,061,000

a/ Includes artichokes, carrots, all cabbage, eggplant, 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]	**2013**	**99,000**	**1.07**	**105,930[b]**	**Ton**	**$5,631.00**	**$596,492,000**
	2012	92,000	1.08	99,360	Ton	4,614.00	458,447,000
	2011	89,000	1.23	109,470	Ton	3,497.00	382,817,000
Almond Hulls	**2013**			**207,623**	**Ton**	**130.00**	**26,991,000**
	2012			212,584	Ton	136.00	28,911,000
	2011			234,215	Ton	135.00	31,619,000
Cherries	**2013**	**600**	**2.90**	**1,740**	**Ton**	**4,978.00**	**8,662,000**
	2012	460	3.91	1,799	Ton	5,319.00	9,569,000
	2011	440	3.72	1,637	Ton	3,456.00	5,657,000
Figs	**2013**	**4,700**	**1.84**	**8,648**	**Ton**	**1,867.00**	**16,146,000**
	2012	5,400	1.59	8,586	Ton	1,690.00	14,510,000
	2011	5,700	1.80	10,260	Ton	1,471.00	15,092,000
Grapes							
Raisin Varieties							
Crushed	**2013**	**10,300**	**10.74**	**110,622**	**Ton**	**245.00**	**27,102,000**
	2012	11,000	8.56	94,160	Ton	312.00	29,378,000
	2011	10,500	10.66	111,930	Ton	260.00	29,102,000
Dried	**2013**	**21,300**	**3.14**	**66,882**	**Ton**	**1,654.00**	**110,623,000**
	2012	22,800	2.59	59,052	Ton	1,720.00	101,569,000
	2011	22,300	2.58	57,534	Ton	1,530.00	88,027,000
Fresh	**2013**	**1,000**	**10.07**	**10,070**	**Ton**	**1,583.00**	**15,941,000**
	2012	1,300	5.66	7,358	Ton	1,474.00	10,846,000
	2011	1,000	10.90	10,900	Ton	1,417.00	15,445,000
Table Varieties	**2013**	**2,600**	**12.24**	**31,824**	**Ton**	**1,589.00**	**50,568,000**
	2012	1,800	12.87	23,166	Ton	1,756.00	40,679,000
	2011	2,250	9.72	21,870	Ton	1,578.00	34,511,000
Wine Varieties[c]							
Red	**2013**	**22,800**	**10.15**	**231,420**	**Ton**	**419.00**	**96,965,000**
Varieties	2012	23,000	11.19	257,370	Ton	402.00	103,463,000
	2011	23,400	10.44	244,296	Ton	335.00	81,839,000
White	**2013**	**17,400**	**12.10**	**210,540**	**Ton**	**345.00**	**72,636,000**
Varieties	2012	17,100	11.82	202,122	Ton	370.00	74,785,000
	2011	15,000	11.54	173,100	Ton	299.00	51,757,000
Total Grapes	**2013**	**75,400**					**373,835,000**
	2012	77,000					360,720,000
	2011	74,450					300,681,000

FRUIT & NUT CROPS

		PRODUCTION				VALUE	
Item	Year	Harvested Acreage	Per Acre	Total	Unit	Per Unit	Total
Olives, Fresh & Oil	**2013**	**620**	**4.63**	**2,871**	**Ton**	**$562.00**	**$1,614,000**
	2012	900	5.61	5,049	Ton	713.00	3,600,000
	2011	1,100	1.76	1,936	Ton	618.00	1,196,000
Oranges	**2013**	**2,800**	**18.52**	**51,856**	**Ton**	**191.00**	**9,904,000**
	2012	3,000	18.41	55,230	Ton	178.00	9,831,000
	2011	3,400	18.40	62,560	Ton	215.00	13,450,000
Peaches							
Cling	**2013**	**270**	**20.58**	**5,557**	**Ton**	**313.00**	**1,739,000**
	2012	310	20.64	6,398	Ton	306.00	1,958,000
	2011	260	15.30	3,978	Ton	291.00	1,158,000
Freestone	**2013**	**460**	**15.96**	**7,342**	**Ton**	**833.00**	**6,116,000**
	2012	450	14.56	6,552	Ton	932.00	6,106,000
	2011	630	15.99	10,074	Ton	621.00	6,256,000
Total	**2013**	**730**					**7,855,000**
	2012	760					8,064,000
	2011	890					7,414,000
Pistachios	**2013**	**29,200**	**1.10**	**32,120**[b]	**Ton**	**5,039.00**	**161,853,000**
	2012	29,000	1.44	41,760	Ton	4,354.00	181,238,000
	2011	28,300	0.97	27,451	Ton	4,120.00	113,098,000
Plums, Dried	**2013**	**1,040**	**2.92**	**3,037**	**Ton**	**1,601.00**	**4,862,000**
	2012	1,100	2.92	3,212	Ton	1,395.00	4,481,000
	2011	1,200	3.71	4,452	Ton	1,383.00	6,157,000
Walnuts	**2013**	**1,420**	**1.78**	**2,528**	**Ton**	**3,709.00**	**9,376,000**
	2012	1,300	2.04	2,652	Ton	2,911.00	7,720,000
	2011	1,340	1.54	2,064	Ton	2,749.00	5,674,000
Miscellaneous							
Fruits & Nuts[d]	**2013**	**8,900**					**49,947,000**
	2012	9,300					49,104,000
	2011	9,100					39,919,000
Orchard	**2013**			**5,500**	**Cord**[e]		**825,000**
Firewood	2012			6,000	Cord		900,000
	2011			6,500	Cord		975,000
TOTAL	**2013**	**224,410**					**$1,268,362,000**
	2012	220,220					1,137,095,000
	2011	214,920					923,749,000

a/ Meat basis
b/ Reflects total production, including imperfect stock; price weighted accordingly
c/ Includes table grape crushed
d/ Includes apples, apricots, berries, kiwis, nectarines, pears, pecans, persimmons, plums, pomegranates, tangelos, tangerines, almond and walnut shells
e/ Cord: 128 Cubic feet

FOREST PRODUCTS

		PRODUCTION		VALUE
Item	Year	Production	Unit	Total
Timber	**2013**	**5,769**	**MBF[a]**	**$459,000**
	2012	9,900	MBF	810,000
	2011	3,839	MBF	282,000
Firewood[b]	**2013**	**14,656**	**Cord[c]**	**806,000**
	2012	1,509	Cord	280,000
	2011	1,745	Cord	204,000
TOTAL	**2013**			**$1,265,000**
	2012			1,090,000
	2011			486,000

a/ MBF: Thousand board feet

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

c/ Cord: 128 Cubic feet

NURSERY PRODUCTS

		PRODUCTION		VALUE
Item	Year	Field Acres	House Sq. Foot	Total
Nursery Stock[a]	2013	**320**	**161,000**	**$18,908,000**
	2012	330	160,000	17,109,000
	2011	440	532,000	19,057,000

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

APIARY PRODUCTS

		PRODUCTION		VALUE	
Item	Year	Total	Unit	Per Unit	Total
Apiary Products					
Beeswax	**2013**	**52,510**	**Pound**	**$3.25**	**$171,000**
	2012	56,029	Pound	2.35	132,000
	2011	41,500	Pound	1.18	49,000
Honey	**2013**	**955,600**	**Pound**	**2.08**	**1,988,000**
	2012	958,000	Pound	1.87	1,791,000
	2011	515,000	Pound	1.50	773,000
Pollination	**2013**	**202,000**	**Colony**	**157.00**	**31,714,000**
	2012	189,000	Colony	153.00	28,917,000
	2011	194,000	Colony	144.00	27,936,000
TOTAL	**2013**				**$33,873,000**
	2012				30,840,000
	2011				28,758,000

LIVESTOCK AND POULTRY

		PRODUCTION			VALUE	
Item	Year	Head	Liveweight	Unit	Per Unit	Total
Cattle and Calves[a]	**2013**	**79,000**	**557,674**	**CWT[b]**	**$99.00**	**$55,210,000**
	2012	78,200	565,000	CWT	91.00	51,415,000
	2011	78,500	567,800	CWT	80.00	45,424,000
Replacement Heifers[c]	**2013**	**29,800**			**1,300.00**	**38,740,000**
	2012	30,000			1,330.00	39,900,000
	2011	30,000			1,340.00	40,200,000
Poultry	**2013**					**20,985,000**
	2012					26,125,000
	2011					22,097,000
TOTAL	**2013**					**$114,935,000**
	2012					117,440,000
	2011					107,721,000

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]	**2013**	**17,691,981**	**CWT**	**$18.23**	**$322,525,000**
	2012	17,732,572	CWT	16.26	288,346,000
	2011	17,780,987	CWT	18.33	325,946,000
Milk Manufacturing[a]	**2013**	**31,082**	**CWT**	**18.89**	**587,000**
	2012	24,955	CWT	16.91	422,000
	2011	65,222	CWT	18.84	1,229,000
Other Products[b]	**2013**				**7,816,000**
	2012				7,831,000
	2011				17,258,000
TOTAL	**2013**				**$330,928,000**
	2012				296,599,000
	2011				344,433,000

a/ Madera County has 44 dairies, with 67,622 lactating cows

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

AGRICULTURAL CROP REPORT SUMMARY
MADERA COUNTY 2013

Item	Year	Harvested Acres	Total Value
Apiary	**2013**		**$33,873,000**
	2012		30,840,000
	2011		28,758,000
Field Crops	**2013**	**472,040**	**87,592,000**
	2012	*490,400**	104,406,000
	2011	*497,600**	111,256,000
Fruit and Nut Crops	**2013**	**224,410**	**1,268,362,000**
	2012	220,220	1,137,095,000
	2011	214,920	923,749,000
Forest Products	**2013**		**1,265,000**
	2012		1,090,000
	2011		486,000
Livestock and Poultry	**2013**		**114,935,000**
	2012		117,440,000
	2011		107,721,000
Livestock and Poultry Products	**2013**		**330,928,000**
	2012		296,599,000
	2011		344,433,000
Nursery Products	**2013**	**320**	**18,908,000**
	2012	330	17,109,000
	2011	440	19,057,000
Vegetable Crops	**2013**	**6,400**	**40,681,000**
	2012	5,300	34,832,000
	2011	4,130	34,061,000
TOTAL	**2013**		**$1,896,544,000**
	2012		1,739,411,000
	2011		1,569,521,000

* Revised

MADERA COUNTY
HIGHLIGHTS

County Established	March 11, 1893
County Seat	Madera (city)
Population[a]	152,389
Total County Acreage	1,366,925
2013 Harvested Acreage	703,170
Field Crop Acreage	79,140
Fruit and Nut Acreage	224,410
Nursery Acreage	320
Vegetable Acreage	6,400
Rangeland Acreage	392,900
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]	12
Commodity, by Value	
Figs	1
Grapes, Raisin Variety	2
Pistachios	4
Almonds	5
Grapes, Table Variety	5
Grapes, Wine Variety	6
Cattle & Calves	7
Corn, Silage	7
Olives	7
Milk, Market	8
Ranking of Madera County Among Counties of the United States	
Total Agricultural Production[c]	21

a/ US Bureau of Census, 2013 Estimate
b/ County Agricultural Commissioner's Data, 2012
c/ USDA Ag Census, 2007

Madera County Crop Reports from 2001 to 2013 are available at:
http://www.madera-county.com/index.php/publications/crop-reports

2013 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.

During 2013, three nursery locations were inspected to ensure pest cleanliness.

Over 40 beehive shipments were received from Red Imported Fire Ants (RIFA) infested states, with over 20,000 beehives inspected for RIFA.

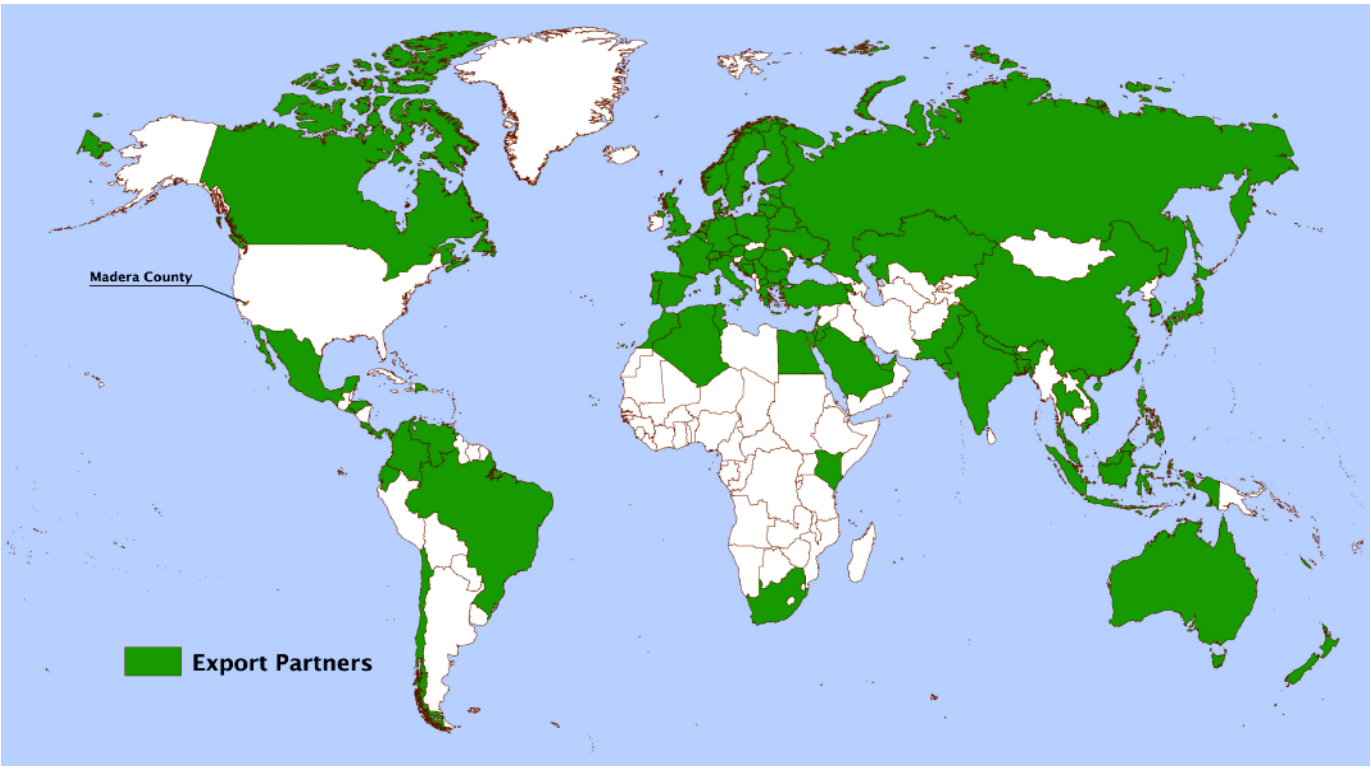
Countries receiving agricultural commodities require certification that the commodities are free from potentially injurious pests. Over 4,900 phytosanitary inspections were performed on Madera County commodities, which were exported to over 70 countries.

The **Pest Detection Program** utilizes insect traps and surveys for the detection of foreign pests which may have eluded exclusion efforts. Over 1,000 traps were deployed in the county, with over 9,500 trap servicings performed during the 2013 season.

The trapping program in Madera County targeted multiple pests, including the following:

Caribbean Fruit Fly *(Anastrepha suspenss)*
Gypsy Moth *(Lymentria dispar)*
Light Brown Apple Moth *(Epiphyas postvittana)*
Melon Fruit Fly *(Dacus cucurbitae)*
Oriental Fruit Fly *(Bactrocera dorsalis)*
European Corn Borer *(Ostrinia nubilalus)*
Japanese Beetle *(Popillia japonica)*
Mediterranean Fruit Fly *(Ceratitis capitata)*
Mexican Fruit Fly *(Anastrepha ludens)*

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 1,400 acres of cotton plantings.



Countries Receiving Madera County Commodities:

* Algeria
* Armenia
* Austria
* Australia
* Bahrian
* Bangladesh
* Belarus
* Belgium
* Bosnia and Herzegovina
* Brazil
* Bulgaria
* Canada
* Chile
* China
* Colombia
* Costa Rica
* Croatia
* Cyprus
* Czech Republic
* Denmark
* Dominican Republic
* Ecuador
* Egypt
* El Salvador
* Estonia
* Finland
* France
* Germany
* Greece
* Honduras
* Hong Kong
* Hungary
* India
* Indonesia
* Israel
* Italy
* Japan
* Jordan
* Kazakhstan
* Kenya
* Korea, Republic of
* Kuwait
* Latvia
* Lebanon
* Lithuania
* Macedonia, Former Yugoslav Republic of
* Malaysia
* Mexico
* Morocco
* Nepal
* Netherlands
* New Caledonia
* New Zealand
* Norway
* Pakistan
* Panama
* Philippines
* Poland
* Portugal
* Romania
* Russian Federation
* Saudi Arabia
* Serbia
* Singapore
* South Africa
* Spain
* Sweden
* Switzerland
* Thailand
* Taiwan
* Tunisia
* Turkey
* United Arab Emirates
* Ukraine
* United Kingdom
* Venezuela
* Vietnam

Madera County Commodities Exported:

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

2013 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 317 traps, with over 4,300 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, which lead to an additional placement of 65 delimitation traps and 570 subsequent trap servicings. Additionally, the California Department of Food and Agriculture (CDFA) released two parasitic wasps (*Gonatocerus triguttatus and G. morrilli)* in 2013 to aid in the control of the Glassy-winged Sharpshooters. Over 500 parasitoids were released in the Wildwood and Rolling Hills areas.

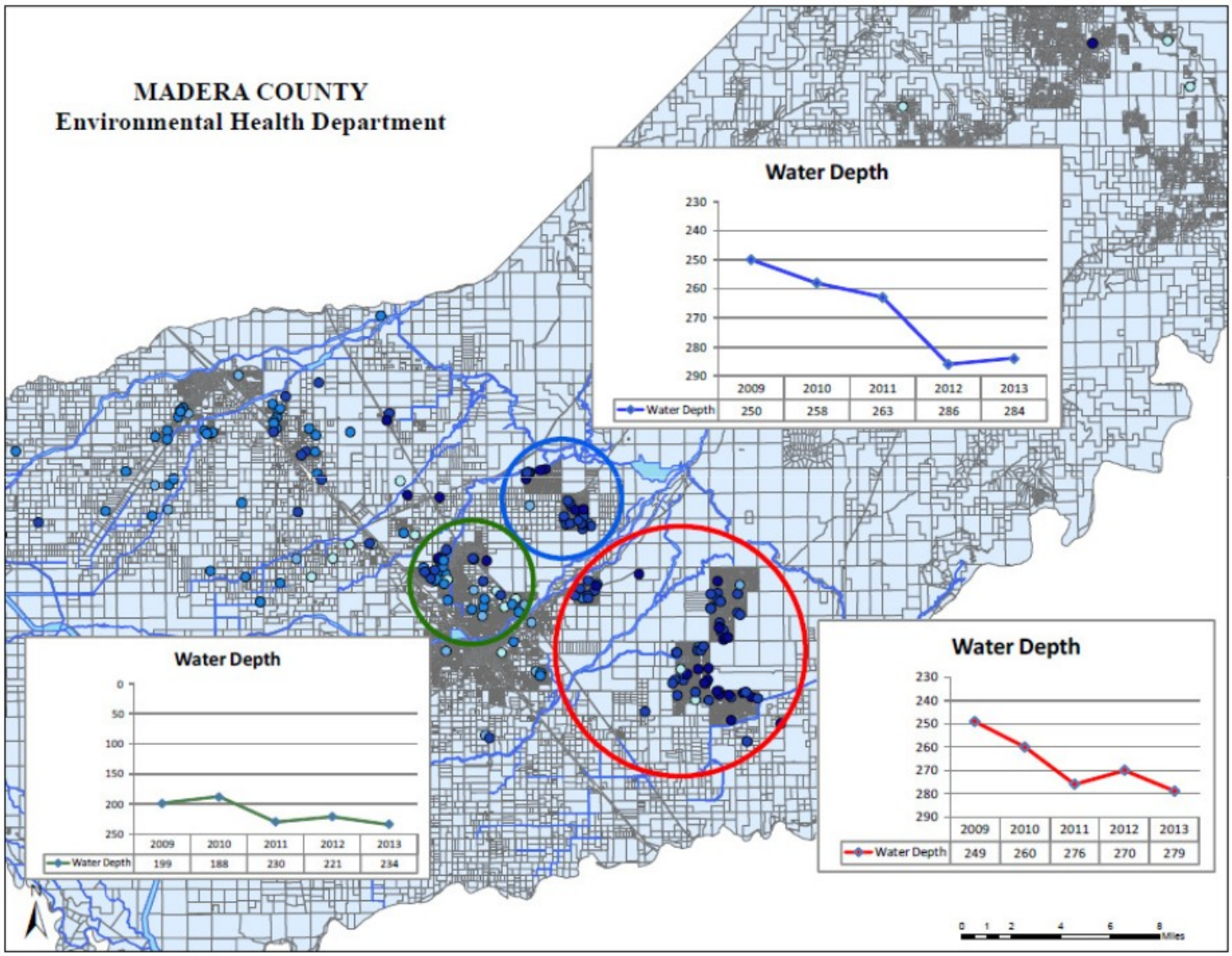
Fifty-three **Organic Farms**, totaling over 6,000 acres, and 8 handlers were registered in Madera County in 2013. Utilizing organic principles defined in the California Organic Products Act of 2003, these farms produce a wide array of commodities, such as:

alfalfa, almonds, apples, apricots, artichokes, arugula, avocado, basil, dried beans, green beans, beets, berries, broccoli, cabbage, cantaloupe, carrots, cauliflower, chard, cherries, cilantro, collards, sweet corn, cucumbers, eggplants, endive, fennel, figs, garlic, grapes (table, raisin, wine), hay, herbs, honeydew, kale, kohlrabi, leeks, lemons, lettuce, livestock, oats, okra, olives, onions, oranges, parsnip, pasture, peaches, peanuts, peas, peppers, persimmons, pistachios, plums, pomegranates, potatoes, poultry, prunes, radish, seed crops, spinach, sprouts, squash, sunflower, tomatillo, tomatoes, turnips, watermelons, wheat.

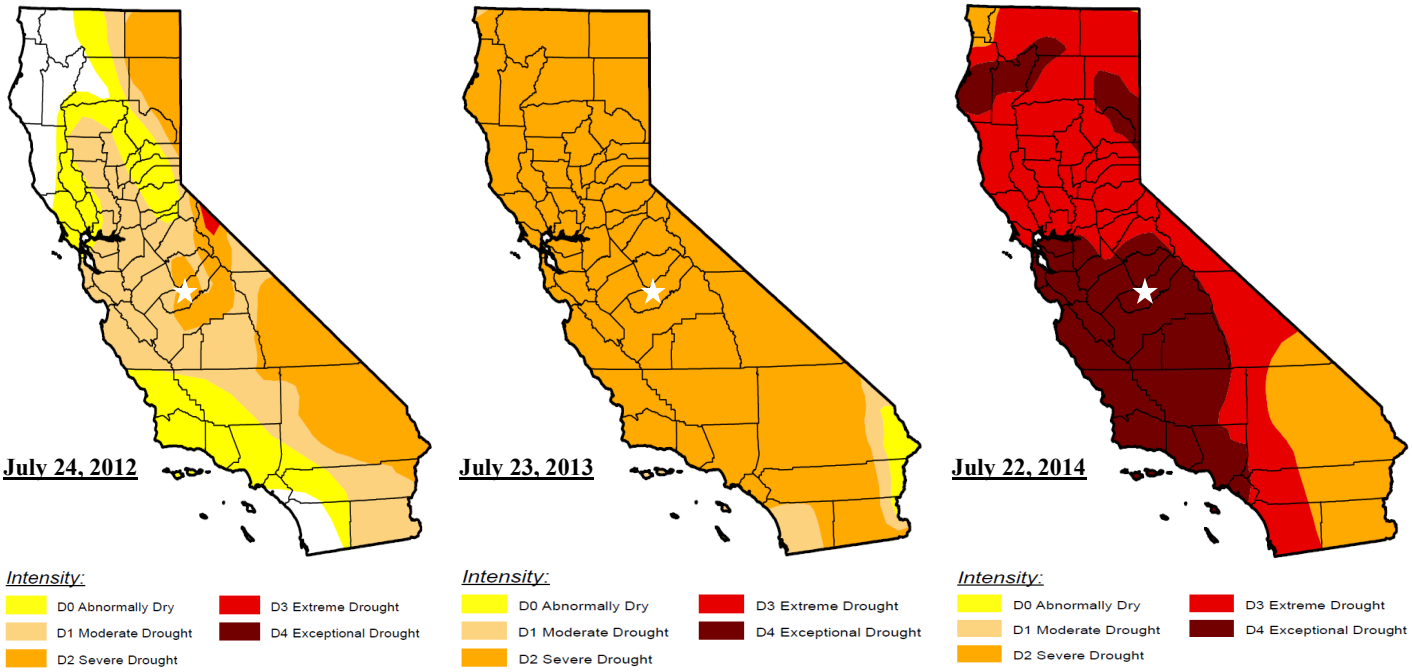
The value of organic production in Madera County in 2013 was **$34,455,000.**

DROUGHT CONDITIONS IN MADERA COUNTY…

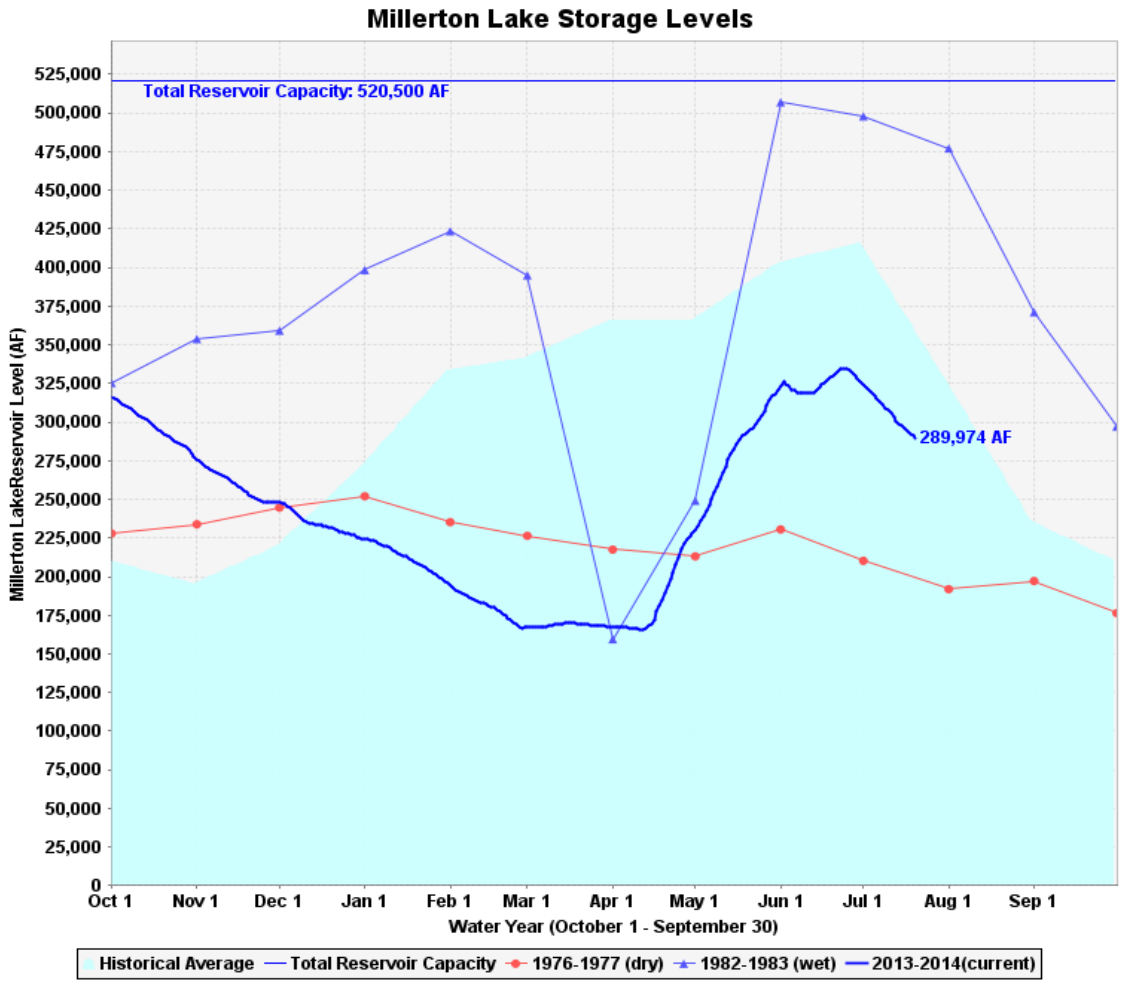
The State of California is experiencing it's third straight year (2012-2014) of drought, Madera County included. 2014 will be one on the driest years on record. The Madera County Board of Supervisors declared a drought emergency in February of 2014 urging all residents to conserve water. Increasing demands and lack of surface water storage and allocations leads to a reliance on groundwater for both urban and agricultural water needs. This leads to the amount of water pumped from wells exceeding the present amount that is recharging our aquifers. The water balance will have far reaching effects for years to come. The graphs and pictures on these two pages detail the current drought conditions in Madera County.



DROUGHT CONDITIONS IN MADERA COUNTY...



Maps: United States Drought Monitor (http://droughtmonitor.unl.edu/)
Star: Madera County



Graph: State of California Department of Water Resources

RAINFALL - MADERA, CALIFORNIA (1963 - 2013)

YEAR	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1963-64	0.00	0.00	0.23	1.45	2.38	0.24	0.61	0.01	1.50	0.70	0.42	0.27	7.81
1964-65	0.00	0.12	0.00	1.08	1.75	3.23	1.14	0.52	0.64	1.59	0.00	0.00	10.07
1965-66	0.00	0.07	0.00	0.17	4.25	1.83	0.81	0.94	0.06	0.17	0.29	0.01	8.60
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	0.49	0.00	0.00	4.02
Average	0.01	0.02	0.15	0.67	1.35	1.85	2.09	2.00	1.99	1.09	0.40	0.12	11.72

50 YEAR AVERAGE RAINFALL

Madera County

Department of Agriculture/Weights and Measures

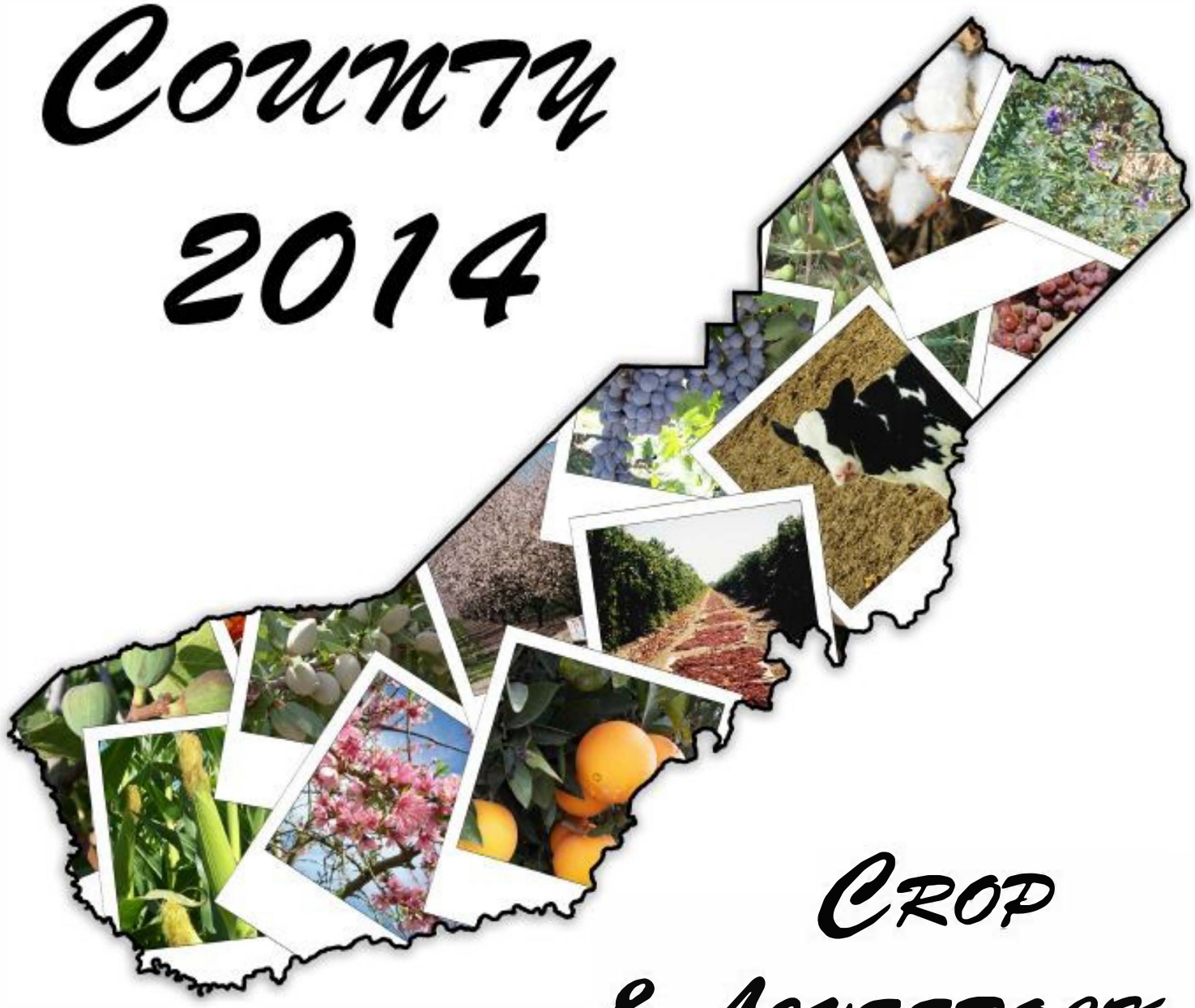
332 Madera Avenue

Madera, CA 93637

Phone: (559) 675-7876 / Fax: (559) 674-4071

Website: www.madera-county.com/index.php/department-of-ag-home

Madera County 2014



Crop & Livestock Report

~ MADERA COUNTY STAFF ~

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District 1

David Rogers
District 2/Chairman

Rick Farinelli
District 3

Max Rodriguez
District 4

Tom Wheeler
District 5

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Eric Fleming

Agricultural Commissioner/ Sealer of Weights & Measures

Stephanie "Stevie" McNeill

Deputy Agricultural Commissioner/Sealer

Heidi Wong

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Madera County Department of Agriculture
Weights and Measures

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

Karen Ross, Secretary
California Department of Food and Agriculture

and

The Honorable Board of Supervisors
County of Madera, California

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

It is my pleasure to present the 2014 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 2014, the gross value of all production is the highest ever recorded at $2,265,881,000; this is an increase of $369,318,000 (19.47%) over 2013 production. This is a testament to the ability of Madera County producers to adapt and increase efficiencies while facing the ongoing drought conditions.

Crop values can vary from year to year due to the variables of production, market and weather conditions. Most of the increases over 2013 for 2014 can be attributed to strong market prices and increased production. Almonds (nut meats & hulls) retained the top crop rank for the fifth year in a row, with a value of $771,134,000, an increase of $147,651,000 (23.68% increase), mainly due to strong prices and increased bearing acreage. Milk overtook grapes for 2nd place, with a value of $414,678,000 (28.34% increase), and grapes claimed the third spot with a value of $317,503,000 (-15.07% decrease).

In overall categories, increases were seen in apiary (22.71%) primarily due to increases in pollination colonies and price; fruit and nut crops (18.78%) due mainly to stronger almond market prices and more bearing acres coming into production; livestock and poultry (24.07%) and livestock and poultry products (27.53%) due to improving prices; nursery products (22.58%) as they continue to recover from the past years' economic fallout; and vegetable crops (21.13%) mainly reflecting increased acreage and prices for processing tomatoes. Decreases were seen in field crops (-8.56%) with decreases in acreages of alfalfa, corn, oats and wheat; and forest products (-60.40%) due to a reduction in timber contracted for harvest.

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 2014 Madera County Agricultural and Livestock Report, and previous reports, please visit our website online at http://madera-county.com/agcommissioner/cropreports/index.html .

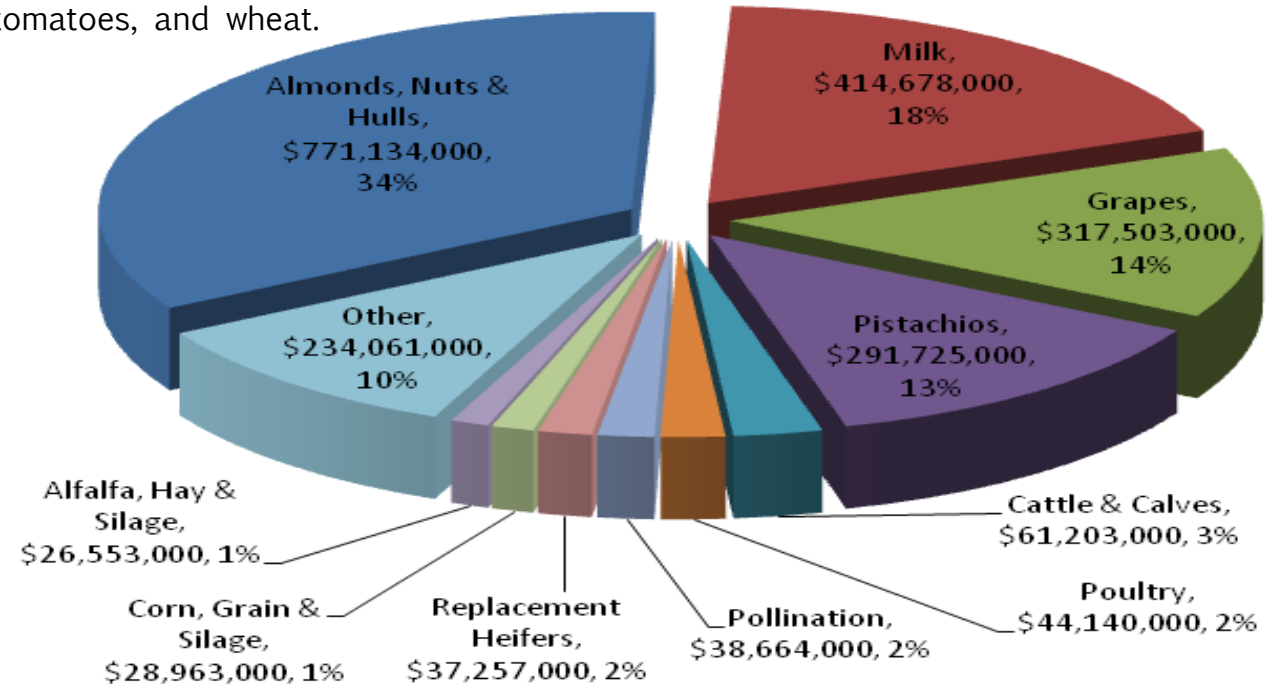
Respectfully submitted,

Stevie McNeill
Agricultural Commissioner/Sealer

TEN LEADING CROPS
MADERA COUNTY 2014

Commodity	2014 Rank	2014 Dollar Value	2013 Rank
Almonds, Nuts & Hulls	1	$771,134,000	1
Milk	2	$414,678,000	3
Grapes	3	$317,503,000	2
Pistachios	4	$291,725,000	4
Cattle & Calves	5	$61,203,000	5
Poultry	6	$44,140,000	10
Pollination	7	$38,664,000	7
Replacement Heifers	8	$37,257,000	6
Corn, Grain & Silage	9	$28,963,000	9
Alfalfa, Hay & Silage	10	$26,553,000	8

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, poultry, 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 cotton, honey, citrus and stone fruits, nursery stock, tomatoes, and wheat.



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Field Crops

Item	Year	PRODUCTION Harvested Acreage	PRODUCTION Per Acre	PRODUCTION Total	VALUE Unit	VALUE Per Unit	VALUE Total
Alfalfa							
Hay	**2014**	**16,000**	**6.80**	**108,800**	**Ton**	**$231.00**	**$25,133,000**
	2013	17,300	7.63	131,999	Ton	210.00	27,720,000
Silage[a]	**2014**			**20,287**	**Ton**	**70.00**	**1,420,000**
	2013			23,684	Ton	66.00	1,563,000
Total	**2014**	**16,000**					**26,553,000**
	2013	17,300					29,283,000
Corn							
Grain	**2014**	**600**	**7.55**	**4,530**	**Ton**	**230.00**	**1,042,000**
	2013	940	6.19	5,819	Ton	220.00	1,280,000
Silage	**2014**	**18,300**	**25.86**	**473,238**	**Ton**	**59.00**	**27,921,000**
	2013	22,700	26.58	603,366	Ton	46.00	27,755,000
Total	**2014**	**18,900**					**28,963,000**
	2013	23,640					29,035,000
Cotton							
Lint	**2014**	**740**	**1,863[b]**	**2,872**	**Bale[c]**	**0.95[d]**	**1,310,000**
	2013	1,700	1,646	5,930	Bale	1.08	3,022,000
Seed	**2014**			**1,149**	**Ton**	**300.00**	**345,000**
	2013			2,387	Ton	335.00	800,000
Total	**2014**	**740**					**1,655,000**
	2013	1,740					*3,822,000**
Oat							
Hay	**2014**	**800**	**3.53**	**2,824**	**Ton**	**185.00**	**522,000**
	2013	1,700	2.87	4,879	Ton	148.00	722,000
Pasture							
Irrigated	**2014**	**1,500**			**Acre**	**150.00**	**225,000**
	2013	1,600			Acre	150.00	240,000
Rangeland[e]	**2014**	**389,900**			**Acre**	**8.50**	**3,314,000**
	2013	392,900			Acre	7.50	2,947,000

** Revised*

Field Crops

Item	Year	Harvested Acreage	PRODUCTION Per Acre	PRODUCTION Total	Unit	VALUE Per Unit	VALUE Total
Wheat							
Grain	2014	2,600	3.01	7,826	Ton	$285.00	$2,230,000
	2013	4,500	2.93	13,185	Ton	262.00	3,454,000
Silage	2014	18,200	14.86	270,452	Ton	38.00	10,277,000
	2013	24,600	14.79	363,834	Ton	37.00	13,462,000
Total	2014	20,800					12,507,000
	2013	29,100					16,916,000
Winter Forage	2014	3,300	17.46	57,618	Ton	48.00	2,766,000
	2013	1,800	13.98	25,164	Ton	36.00	906,000
Miscellaneous[f]	2014	2,300					3,587,000
	2013	2,300					3,721,000
TOTAL	2014	454,200					$80,092,000
	2013	472,040					87,592,000

a/ Alfalfa acreage yields both hay and silage
b/ Pounds
c/ Bale: 480 pounds
d/ Price per pound
e/ Biennial survey cycle
f/ Includes: ryegrass hay, seed crops, Sudangrass, wheat hay, field and stubble straw.

Vegetable Crops

Item	Year	Harvested Acreage	PRODUCTION Per Acre	PRODUCTION Total	Unit	VALUE Per Unit	VALUE Total
Tomatoes							
Fresh	2014	600	16.25	9,750	Ton	$525.00	$5,119,000
	2013	400	17.33	6,932	Ton	443.00	3,071,000
Processed	2014	5,600	58.65	328,440	Ton	79.00	25,947,000
	2013	4,200	56.49	237,258	Ton	69.00	16,371,000
Total	2014	6,200					31,066,000
	2013	4,600					19,442,000
Miscellaneous[a]	2014	2,000					18,212,000
	2013	1,800					21,239,000
TOTAL	2014	8,200					$49,278,000
	2013	6,400					40,681,000

a/ Includes: artichokes, carrots, all cabbage, 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]	2014	106,000	0.94	99,640[b]	Ton	$7,455.00	$742,816,000
	2013	99,000	1.07	105,930	Ton	5,631.00	596,492,000
Almond Hulls	2014			195,294	Ton	145.00	28,318,000
	2013			207,623	Ton	130.00	26,991,000
Cherries	2014	480	0.42	202	Ton	6,983.00	1,411,000
	2013	600	2.90	1,740	Ton	4,978.00	8,662,000
Figs, Fresh & Dried	2014	5,600	1.73	9,688	Ton	2,037.00	19,734,000
	2013	4,700	1.84	8,648	Ton	1,867.00	16,146,000
Grapes							
Raisin Varieties							
Crushed	2014	6,200	7.25	44,950	Ton	213.00	9,574,000
	2013	10,300	10.74	110,622	Ton	245.00	27,102,000
Dried	2014	20,700	3.12	64,584	Ton	1,692.00	109,276,000
	2013	21,300	3.14	66,882	Ton	1,654.00	110,623,000
Fresh	2014	920	9.79	9,007	Ton	1,484.00	13,366,000
	2013	1,000	10.07	10,070	Ton	1,583.00	15,941,000
Table Varieties	2014	2,900	9.52	27,608	Ton	1,929.00	53,256,000
	2013	2,600	12.24	31,824	Ton	1,589.00	50,568,000
Wine Varieties[c]							
Red	2014	24,200	9.79	236,918	Ton	347.00	82,211,000
Varieties	2013	22,800	10.15	231,420	Ton	419.00	96,965,000
White	2014	16,100	9.61	154,721	Ton	322.00	49,820,000
Varieties	2013	17,400	12.10	210,540	Ton	345.00	72,636,000
Total Grapes	2014	71,020					317,503,000
	2013	75,400					373,835,000
Olives	2014	590	1.54	909	Ton	458.00	416,000
Fresh & Oil	2013	620	4.63	2,871	Ton	562.00	1,614,000

FRUIT & NUT CROPS

Item	Year	PRODUCTION Harvested Acreage	PRODUCTION Per Acre	PRODUCTION Total	VALUE Unit	VALUE Per Unit	VALUE Total
Oranges	**2014**	**2,900**	**13.08**	**37,932**	**Ton**	**$456.00**	**$17,297,000**
	2013	2,800	18.52	51,856	Ton	191.00	9,904,000
Peaches							
Cling	**2014**	**220**	**14.20**	**3,124**	**Ton**	**388.00**	**1,212,000**
	2013	270	20.58	5,557	Ton	313.00	1,739,000
Freestone	**2014**	**470**	**17.97**	**8,446**	**Ton**	**514.00**	**4,341,000**
	2013	460	15.96	7,342	Ton	833.00	6,116,000
Total	**2014**	**690**					**5,553,000**
	2013	730					7,855,000
Pistachios	**2014**	**31,000**	**1.58**	**48,980[b]**	**Ton**	**5,956.00**	**291,725,000**
	2013	29,200	1.10	32,120	Ton	5,039.00	161,853,000
Plums, Dried	**2014**	**890**	**1.55**	**1,380**	**Ton**	**2,347.00**	**3,239,000**
	2013	1,040	2.92	3,037	Ton	1,601.00	4,862,000
Walnuts	**2014**	**1,900**	**1.46**	**2,778**	**Ton**	**3,960.00**	**11,001,000**
	2013	*1,700**	*1.49**	2,528	Ton	3,709.00	9,376,000
Miscellaneous							
Fruits & Nuts[d]	**2014**	**8,900**					**66,688,000**
	2013	8,900					49,947,000
Orchard	**2014**			**6,000**	**Cord[e]**		**930,000**
Firewood	2013			5,500	Cord		825,000
TOTAL	**2014**	**229,970**					**$1,506,631,000**
	2013	*224,690**					1,268,362,000

a/ Meat basis

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

c/ Includes table grape crushed

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

e/ Cord: 128 cubic feet

** Revised*

APIARY PRODUCTS

		PRODUCTION		VALUE	
Item	Year	Total	Unit	Per Unit	Total
Apiary Products					
Beeswax	2014	117,048	Pound	$3.60	$421,000
	2013	52,510	Pound	3.25	171,000
Honey	2014	969,545	Pound	2.56	2,482,000
	2013	955,600	Pound	2.08	1,988,000
Pollination	2014	216,000	Colony	179.00	38,664,000
	2013	202,000	Colony	157.00	31,714,000
TOTAL	2014				$41,567,000
	2013				33,873,000

FOREST PRODUCTS

		PRODUCTION		VALUE
Item	Year	Production	Unit	Total
Timber	2014	2,348	MBF[a]	$240,000
	2013	5,769	MBF	459,000
Firewood[b]	2014	5,447	Cord[c]	261,000
	2013	14,656	Cord	806,000
TOTAL	2014			$501,000
	2013			1,265,000

a/ MBF: Thousand board feet

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

c/ Cord: 128 Cubic feet

NURSERY PRODUCTS

		PRODUCTION		VALUE
Item	Year	Field Acres	House Sq. Foot	Total
Nursery Stock[a]	2014	320	199,000	$23,178,000
	2013	330	161,000	18,908,000

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]	2014	76,400	532,200	CWT[b]	$115.00	$61,203,000
	2013	79,000	557,674	CWT	99.00	55,210,000
Replacement Heifers[c]	2014	27,700			1,345.00	37,257,000
	2013	29,800			1,300.00	38,740,000
Poultry	2014					44,140,000
	2013					20,985,000
TOTAL	2014					$142,600,000
	2013					114,935,000

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]	2014	18,858,570	CWT	$21.93	$413,568,000
	2013	17,691,981	CWT	18.23	322,525,000
Milk Manufacturing[a]	2014	48,333	CWT	22.97	1,110,000
	2013	31,082	CWT	18.89	587,000
Other Products[b]	2014				7,356,000
	2013				7,816,000
TOTAL	2014				$422,034,000
	2013				330,928,000

a/ Madera County has 43 dairies, with 71,818 lactating cows
b/ Includes: aquaculture, market eggs, hogs, manure, sheep, lambs and wool

AGRICULTURAL CROP REPORT SUMMARY
MADERA COUNTY 2014

Item	Year	Harvested Acres	Total Value
Apiary	2014		$41,567,000
	2013		33,873,000
Field Crops	2014	454,240	80,092,000
	2013	472,040	87,592,000
Fruit and Nut Crops	2014	232,970	1,506,631,000
	2013	*224,690**	1,268,381,000
Forest Products	2014		501,000
	2013		1,265,000
Livestock and Poultry	2014		142,600,000
	2013		114,935,000
Livestock and Poultry Products	2014		422,034,000
	2013		330,928,000
Nursery Products	2014	320	23,178,000
	2013	320	18,908,000
Vegetable Crops	2014	8,200	49,278,000
	2013	6,200	40,681,000
TOTAL	2014		$2,265,881,000
	2013		1,896,563,000

** Revised*

MADERA COUNTY
HIGHLIGHTS

County Established	March 11, 1893
County Seat	Madera (city)
Population[a]	154,548
Total County Acreage	1,366,925
2014 Harvested Acreage	692,730
Field Crop Acreage	64,340
Fruit and Nut Acreage	229,970
Nursery Acreage	320
Rangeland Acreage	389,900
Vegetable Acreage	8,200
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]	11
Commodity, by Value	
Figs	1
Grapes, Raisin Variety	4
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, 2014 Estimate

b/ County Agricultural Commissioner's Data, 2013

c/ USDA Ag Census, 2007

Madera County Crop Reports from 2001 to 2014 are available at: http://www.madera-county.com/index.php/publications/crop-reports

2014 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 80 beehive shipments received from Red Imported Fire Ants (RIFA) infested states, with over 48,000 beehives were 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 75 countries.

The **Pest Detection Program** utilizes insect traps and surveys for the detection of foreign pests which may have eluded exclusion efforts. Over 1,000 traps were deployed in the county, with over 2,400 trap servicings performed during the 2014 season.

The trapping program in Madera County targeted multiple pests, including the following:

- Caribbean Fruit Fly *(Anastrepha suspenss)*
- Gypsy Moth *(Lymentria dispar)*
- Light Brown Apple Moth *(Epiphyas postvittana)*
- Melon Fruit Fly *(Dacus cucurbitae)*
- Oriental Fruit Fly *(Bactrocera dorsalis)*
- European Corn Borer *(Ostrinia nubilalus)*
- Japanese Beetle *(Popillia japonica)*
- Mediterranean Fruit Fly *(Ceratitis capitata)*
- Mexican Fruit Fly *(Anastrepha ludens)*

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.

2014 Sustainable Agriculture Report 2

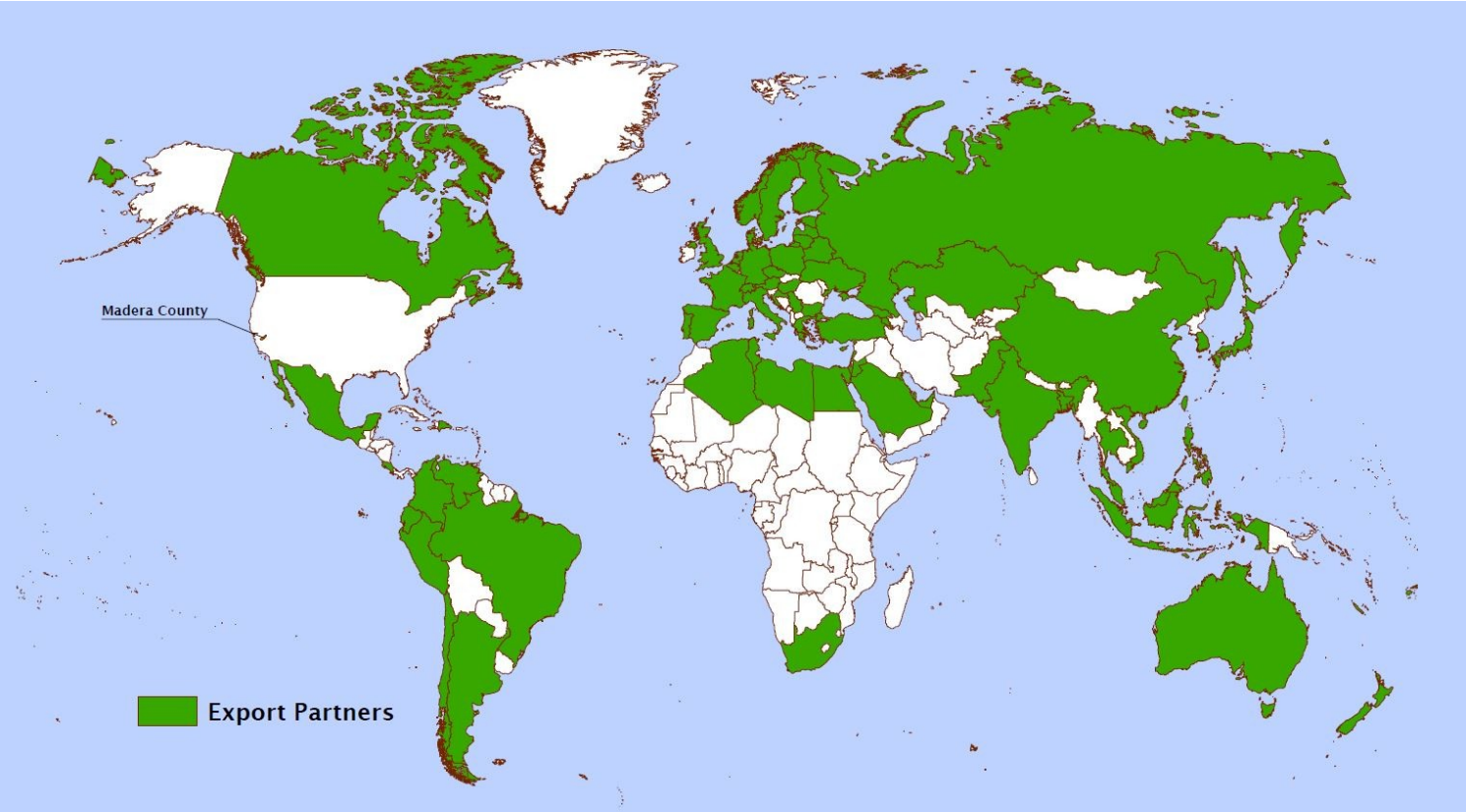
Pest Management

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 1,000 traps in both urban and agricultural sites, with over 10,700 subsequent trap servicings. In addition, incoming shipments of host material and susceptible county plantings were inspected. Additionally, the California Department of Food and Agriculture (CDFA) released two parasitic wasps (*Gonatocerus morgani and G. morrilli)* in 2014 to aid in the control of the Glassy-winged Sharpshooters. Six hundred and eighty (680) parasitoids were released in the Wildwood and Rolling Hills areas.

Forty-six Organic Farms, totaling over 5,500 acres, and 6 handlers were registered in Madera County in 2014. 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, sweet corn, cucumbers, fennel, figs, garlic, grapes (table, raisin, wine), grapefruit, hay, herbs, kale, leeks, lemons, lettuce, livestock, mustard greens, oats, okra, olives, onions, oranges, parsley, pasture, pears, peas, peppers, persimmons, pistachios, plums, pomegranates, popcorn, potatoes, poultry, prunes, radish, seed crops, spinach, squash, tomatoes, turnips, watermelons, wheat.

The value of organic production in Madera County in 2014 was **$45,149,000.**



Countries Receiving Madera County Commodities:

Algeria	Denmark	Korea, Republic of	Qatar
Argentina	Dominican Republic	Kuwait	Russian Federation
Armenia	Ecuador	Latvia	Saudi Arabia
Australia	Egypt	Lebanon	Serbia
Austria	Estonia	Libya	Singapore
Bahrian	Finland	Lithuania	South Africa
Bangladesh	France	Malysia	Spain
Belarus	Georgia	Mauritius	Sweden
Belgium	Germany	Mexico	Switzerland
Brazil	Greece	Netherlands	Taiwan
Bulgaria	Hong Kong	New Caledonia	Thailand
Canada	Hungary	New Zealand	Tunisia
Chile	India	Norway	Turkey
China	Indonesia	Pakistan	United Arab Emirates
Colombia	Israel	Peru	United Kingdom
Costa Rica	Italy	Philippines	Venezuela, Bolivarian Republic of
Croatia	Japan	Poland	Vietnam
Cyprus	Jordan	Portugal	Virgin Islands, British
Czech Republic	Kazakhstan		

Madera County Commodities Exported:

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

RAINFALL - MADERA, CALIFORNIA (1963 - 2014)

YEAR	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	TOTAL
1963-64	0.00	0.00	0.23	1.45	2.38	0.24	0.61	0.01	1.50	0.70	0.42	0.27	7.81
1964-65	0.00	0.12	0.00	1.08	1.75	3.23	1.14	0.52	0.64	1.59	0.00	0.00	10.07
1965-66	0.00	0.07	0.00	0.17	4.25	1.83	0.81	0.94	0.06	0.17	0.29	0.01	8.60
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
Average	0.01	0.02	0.15	0.67	1.35	1.85	2.09	2.00	1.99	1.09	0.40	0.12	11.72

50 YEAR AVERAGE RAINFALL

Department of Agriculture / Weights & Measures
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www.madera-county.com/index.php/department-of-ag-home