

2013 AGRICULTURAL CROP REPORT MADERA COUNTY DEPARTMENT OF AGRICULTURE

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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

Manuel Nevarez

David Rogers

District 2

Rick Farinelli

District 3

Max Rodriguez 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

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TEN LEADING CROPS MADERA COUNTY 2013

| | 2013 | 2013 | 2012 |
|-----------------------|------|----------------------|------|
| Commodity | Rank | Dollar Value | 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.

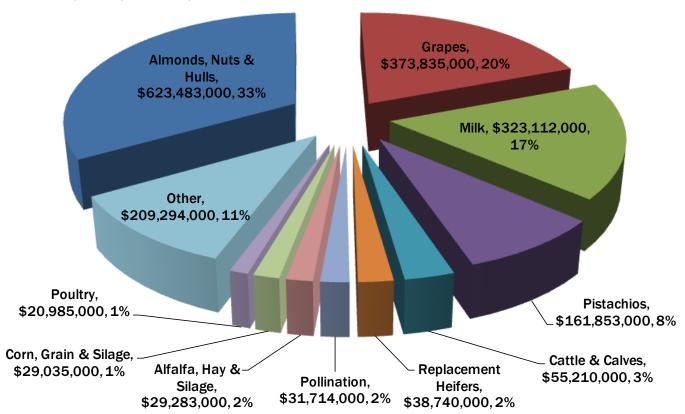


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Field Crops

PRODUCTION

VALUE

| Item Year Acreage Acre Total Alfalfa 2013 17,300 7.63 131,99 2012 22,200 7.24 160,72 2011 20,200 7.64 154,32 Silagea 2013 23,68 2012 43,06 52,76 Total 2013 17,300 2012 22,200 2011 2011 20,200 Corn Grain 2013 940 6.19 5,81 | 99 Ton 28 Ton 28 Ton 34 Ton 30 Ton 34 Ton 35 Ton 36 Ton 36 Ton | \$210.00 227.00 236.00 66.00 63.00 53.00 220.00 265.00 244.00 46.00 | \$27,720,000 36,485,000 36,421,000 1,563,000 2,713,000 2,796,000 29,283,000 39,198,000 39,217,000 1,280,000 2,586,000 2,186,000 |
|---|--|--|--|
| Hay 2013 17,300 7.63 131,99 2012 22,200 7.24 160,72 2011 20,200 7.64 154,32 23,68 2012 43,06 2011 52,76 Total 2013 17,300 2012 22,200 2011 20,200 Corn | 28 Ton 28 Ton 34 Ton 30 Ton 34 Ton 35 Ton 36 Ton 36 Ton | 227.00 236.00 66.00 63.00 53.00 220.00 265.00 244.00 | 36,485,000 36,421,000 1,563,000 2,713,000 2,796,000 29,283,000 39,198,000 39,217,000 1,280,000 2,586,000 |
| 2012 22,200 7.24 160,72 2011 20,200 7.64 154,32 Silagea 2013 2012 43,06 2011 52,76 Total 2013 17,300 2012 22,200 2011 20,200 Corn | 28 Ton 28 Ton 34 Ton 30 Ton 34 Ton 35 Ton 36 Ton 36 Ton | 227.00 236.00 66.00 63.00 53.00 220.00 265.00 244.00 | 36,485,000 36,421,000 1,563,000 2,713,000 2,796,000 29,283,000 39,198,000 39,217,000 1,280,000 2,586,000 |
| 2011 20,200 7.64 154,32 Silagea 2013 23,68 2012 43,06 2011 52,76 Total 2013 17,300 2012 22,200 2011 20,200 Corn | 28 Ton 34 Ton 50 Ton 54 Ton 58 Ton 57 Ton 56 Ton | 236.00 66.00 63.00 53.00 220.00 265.00 244.00 | 36,421,000 1,563,000 2,713,000 2,796,000 29,283,000 39,198,000 39,217,000 1,280,000 2,586,000 |
| Silagea 2013 23,68 2012 43,06 2011 52,76 Total 2013 17,300 2012 22,200 2011 20,200 Corn Corn | 19 Ton 158 Ton 158 Ton 157 Ton 156 Ton | 66.00 63.00 53.00 220.00 265.00 244.00 | 1,563,000 2,713,000 2,796,000 29,283,000 39,198,000 39,217,000 1,280,000 2,586,000 |
| 2012 43,06 2011 52,76 Total 2013 17,300 2012 22,200 2011 20,200 Corn | 50 Ton 54 Ton 59 Ton 58 Ton 57 Ton 56 Ton | 63.00 53.00 220.00 265.00 244.00 | 2,713,000 2,796,000 29,283,000 39,198,000 39,217,000 1,280,000 2,586,000 |
| Total 2011 52,760 2013 17,300 2012 22,200 2011 20,200 Corn | 19 Ton 18 Ton 16 Ton 16 Ton | 220.00 265.00 244.00 | 2,796,000 29,283,000 39,198,000 39,217,000 1,280,000 2,586,000 |
| Total 2013 17,300 2012 22,200 2011 20,200 Corn | L9 Ton 58 Ton 57 Ton 66 Ton | 220.00 265.00 244.00 | 29,283,000 39,198,000 39,217,000 1,280,000 2,586,000 |
| 2012 22,200 2011 20,200 Corn | 58 Ton 57 Ton 66 Ton | 265.00 244.00 | 39,198,000 39,217,000 1,280,000 2,586,000 |
| 2011 20,200 Corn | 58 Ton 57 Ton 66 Ton | 265.00 244.00 | 39,217,000 1,280,000 2,586,000 |
| Corn | 58 Ton 57 Ton 66 Ton | 265.00 244.00 | 1,280,000 2,586,000 |
| | 58 Ton 57 Ton 66 Ton | 265.00 244.00 | 2,586,000 |
| Grain 2013 940 6.19 5,81 | 58 Ton 57 Ton 66 Ton | 265.00 244.00 | 2,586,000 |
| • | 57 Ton 66 Ton | 244.00 | • |
| 2012 1,700 5.74 9,75 | 66 Ton | | 2.186.000 |
| 2011 1,300 6.89 8,95 | | 46.00 | _,, |
| Silage 2013 22,700 26.58 603,36 | | | 27,755,000 |
| 2012 22,800 25.95 591,66 | 60 Ton | 46.00 | 27,216,000 |
| 2011 24,400 27.00 658,80 | 00 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 1,646b 5,83 | 30 Bale | 1.08d | 3,022,000 |
| 2012 1,200 1,527 3,81 | L8 Bale | 0.87 | 1,594,000 |
| 2011 5,500 1 ,554 17 ,80 | 6 Bale | 1.11 | 9,487,000 |
| Seed 2013 2,38 | 7 Ton | 335.00 | 800,000 |
| 2012 1,52 | 7 Ton | 317.00 | 484,000 |
| 2011 7,12 | 24 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 4,87 | | 148.00 | 722,000 |
| 2012 3,400 2.72 9,24 | | 155.00 | 1,433,000 |
| 2011 3,600 2.38 8,56 | S8 Ton | 124.00 | 1,062,000 |
| Pasture | _ | 4== | |
| 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 400,600ef | Acre | 13.22 ^f | 5,295,000 |
| 2011 400,600ef | Acre | 13.22 ^f | 5,295,000 |

Field Crops

PRODUCTION

VALUE

| | | Harvested | Per | | | Per | |
|----------------|------|----------------------|-------|---------|------|----------|--------------|
| Item | Year | Acreage | Acre | Total | Unit | Unit | 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 |
| Miscellaneousg | 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 | 497,600f | | | | | 111,256,000 |

a/ Alfalfa acreage yields both hay and silage

Vegetable Crops

| | | F | | .UE | | | |
|----------------|------|-----------|-------|---------|-------|----------|--------------|
| ltom | Year | Harvested | Per | Total | Unit | Per | Total |
| Item Tomatoes | Tear | Acreage | Acre | Iotai | Ullit | Unit | Total |
| romatoes | | | | | | | |
| 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 |
| Miscellaneousa | 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

5

b/ Pounds

 $[\]ensuremath{\text{c}}/\ensuremath{\,\text{Bale}} \xspace$ 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.

FRUIT & NUT CROPS

PRODUCTION

VALUE

| | | | _ | | | _ | |
|-----------------------------|------|-----------|-------|----------|-----------|-------------------|---------------|
| ltone | Vaar | Harvested | Per | Total | l lmis | Per | Total |
| Item | Year | Acreage | Acre | Total | Unit - | Unit | Total |
| Almondsa | 2013 | 99,000 | 1.07 | 105,930b | 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 | 1 5.30 | 3,978 | Ton | 291.00 | 1,158,000 |
| Freestone | 2013 | 460 | 1 5.96 | 7,342 | Ton | 833.00 | 6,116,000 |
| | 2012 | 450 | 14.56 | 6,552 | Ton | 932.00 | 6,106,000 |
| | 2011 | 630 | 1 5.99 | 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 | 32,120b | 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 & Nutsd | 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 |
| TOTAL | 2011 | 004 440 | | 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

| | | PRODUC | TION | VALUE |
|-----------|------|------------|-------|-------------|
| Item Year | Year | Production | Unit | Total |
| Timber | 2013 | 5,769 | MBFa | \$459,000 |
| | 2012 | 9,900 | MBF | 810,000 |
| | 2011 | 3,839 | MBF | 282,000 |
| Firewoodb | 2013 | 14,656 | Cordc | 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

NURSERY PRODUCTS

| ltem | | PRODUCTI | VALUE | |
|----------------|------|-------------|----------------|--------------|
| | Year | Field Acres | House Sq. Foot | Total |
| Nursery Stocka | 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

| | | PRODUC | TION | 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 |

c/ Cord: 128 Cubic feet

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

LIVESTOCK AND POULTRY

PRODUCTION

VALUE

| Item | Year | Head | Liveweight | Unit | Per Unit | Total |
|---------------------|------|--------|------------|------------------|----------|---------------|
| Cattle and Calvesa | 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 | 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

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 31,082 **CWT** 18.89 Milk Manufacturing^a 2013 587,000 2012 24,955 **CWT** 16.91 422,000 2011 18.84 65,222 **CWT** 1,229,000 Other Products^b 2013 7,816,000 2012 7,831,000 2011 17,258,000 2013 \$330,928,000 **TOTAL** 2012 296,599,000 344,433,000 2011

b/ Hundredweight: 100 pounds

c/ Milk cows

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 | 1 366 025 |
| 2013 Harvested Acreage | 1,366,925 703,170 |
| Field Crop Acreage | 703,170 79,140 |
| Fruit and Nut Acreage | 224,410 |
| Nursery Acreage | 320 |
| Vegetable Acreage | 6,400 |
| Rangeland Acreage | 392,900 |
| 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 |
| Double of Modern County Assessed Counties of Collifornia | |
| Ranking of Madera County Among Counties of California | 20 |
| Population ^a | 33 |
| Total Acreage | 24 |
| Total Agricultural Production ^b | 12 |
| Commodity, by Value | a a |
| 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 a | vailahle at· |
| madera bounty brop reports from 2001 to 2013 are a | valiable 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 <u>Pest Exclusion Program</u> 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 <u>Pest Detection Program</u> 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) European Corn Borer (Ostrinia nubilalus)

Gypsy Moth (Lymentria dispar)

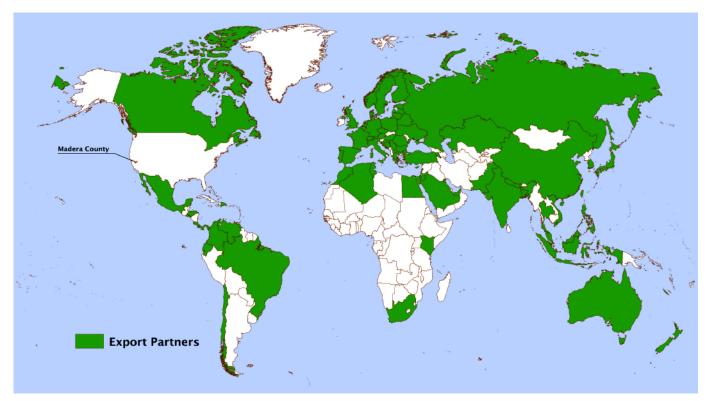
Japanese Beetle (Popillia japonica)

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 <u>Integrated Pest Control Program</u> 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

* Czech Republic

* Croatia* Cyprus

- * 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
- * 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:

* Poland

Almonds Plums
Figs Prunes
Grapes Raisins

Kiwis Tillandsia (Plants)

Masa (Corn Flour) Walnuts

Pistachios

2013 Sustainable Agriculture Report 2

Pest Management

The <u>Glassy-winged Sharpshooter Program</u> 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.

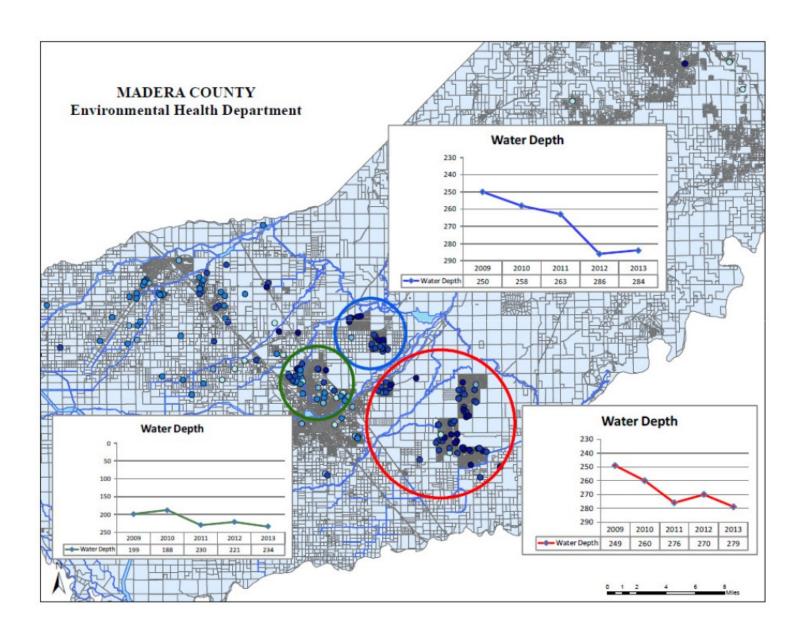
Fifty-three <u>Organic Farms</u>, totaling over 6,000 acres, and 8 handlers were registered in Madera County in 2013. Utilizing organic principles defined in the California Organic Products Act of 2003, these farms produce a wide array of commodities, such as:

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.

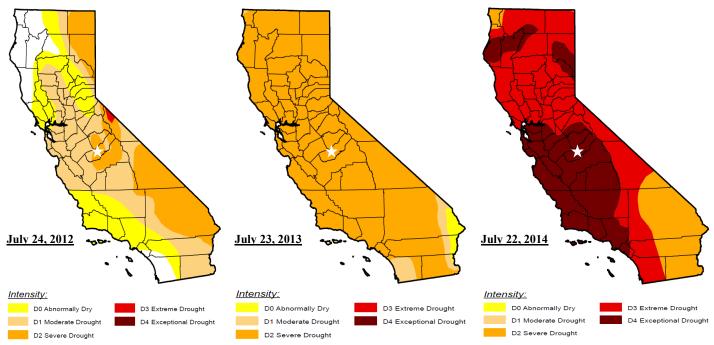
The value of organic production in Madera County in 2013 was \$34,455,000.

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.

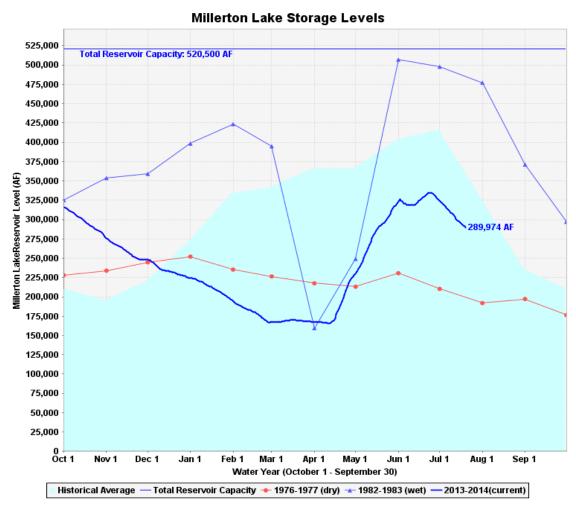


DROUGHT CONDITIONS IN MADERA COUNTY...



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)

| | | 11/711 | | | DEILA, OALII OILIIIA (±300 | | | | | - 201 3) | | | |
|--------------------|------|--------|------|------|----------------------------|------|---------------|------|--------------|-----------------|------|------|--------------|
| 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 | 0.02 | 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 |
| <u>1982-83</u> | 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 | 0.52 | 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 | 0.31 | 0.13 | 0.00 | 8.58 |
| 1987-88 | 0.00 | 0.00 | 0.00 | 1.96 | 0.48 | 1.52 | 0.90 | 0.50 | 0.59 | 2.03 | 0.03 | 0.02 | 8.30 |
| 1988-89 | 0.00 | 0.00 | 0.00 | 0.00 | 1.42 | 2.04 | 0.40 | 1.20 | 2.13 | 0.17 | 0.29 | 0.00 | 7.47 |
| 1989-90 | 0.00 | 0.03 | 0.00 | 0.55 | 0.54 | 0.00 | 2.32 | 1.38 | 2.13 0.71 | 1.41 | 2.36 | 0.00 | 10.24 |
| 1989-90 1990-91 | 0.00 | 0.00 | 0.94 | 0.03 | 0.54 | 0.64 | 0.15 | 1.25 | 7. 11 | 0.17 | 0.05 | 0.00 | 9.98 |
| 1990-91 1991-92 | 0.00 | 0.00 | 0.04 | 0.03 | 0.33 | 1.08 | 1.43 | 2.88 | 2.13 | 0.17 | 0.00 | 0.00 | 9.98 8.66 |
| 1992-93 | 0.00 | 0.02 | 0.00 | 1.33 | 0.23 | 3.08 | 5. 1 6 | 2.69 | 2.13 | 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 | 0.73 | 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 | 0.01 | 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 | 0.02 | 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 |
| 2010-11 | 0.00 | 0.00 | 0.00 | 0.72 | 0.89 | 0.08 | 0.89 | 0.46 | 2.92 | 2.61 | 0.45 | 0.12 | 8.69 |
| 2011-12 | 0.00 | 0.00 | 0.00 | 0.72 | 1.84 | 3.42 | 1.33 | 0.74 | 0.12 | 0.98 | 0.06 | 0.12 | 8.56 |
| 2012-13 2013-14 | 0.00 | 0.00 | 0.00 | 0.07 | 0.25 | 0.23 | 0.32 | 2.16 | 0.12 | 0.49 | 0.00 | 0.00 | 4.02 |
| Average | 0.01 | 0.02 | 0.02 | 0.67 | 1.35 | 1.85 | 2.09 | 2.00 | 1.99 | 1.09 | 0.40 | 0.12 | 11.72 |
| Avelage | 0.01 | J.UZ | 0.10 | J.U1 | T.3 0 | T.00 | 2.03 | 2.00 | 1 .33 | | | | TT./Z |

50 YEAR AVERAGE RAINFALL



Madera County

Department of Agriculture/Weights and Measures

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