



* Image sizes in chart are proportionate to 2016 Crop Value Amount

Top Ten Million Dollar Commodities

| CROP | 2016 CROP VALUE | 2016 CROP RANKING | 2015 CROP RANKING |
|-----------------------|-----------------|-------------------|-------------------|
| Walnuts | 44,822,000 | 1 | 2 |
| Nursery Products | 39,754,000 | 2 | 3 |
| Almonds | 35,917,000 | 3 | 6 |
| Tomatoes (Processing) | 33,843,000 | 4 | 1 |
| Alfalfa (Hay) | 22,267,000 | 5 | 4 |
| Grapes (Wine) | 19,560,000 | 6 | 7 |
| Sunflower (Seed) | 11,414,000 | 7 | 9 |
| Sheep & Lambs | 9,339,000 | 8 | 10 |
| Cattle & Calves | 9,192,000 | 9 | 5 |
| Wheat | 7,428,000 | 10 | 8 |



Fruit & Nut Crops

| CROP | | YEAR | BEARING ACRES | PRODUCTION | | UNIT | VALUE | | |
|----------------------------|-----------------|------|---------------|------------|--------|------|----------|---------------|----------|
| | | | | PER ACRE | TOTAL | | PER UNIT | TOTAL | % CHANGE |
| Almonds (Meats) | | 2016 | 9,000 | 0.89 | 8,020 | Ton | 4,480 | 35,917,000 | 52% |
| | | 2015 | 6,880 | 0.65 | 4,470 | Ton | 5,300 | 23,603,000 | |
| Grapes (Wine) ¹ | Dark Varieties | 2016 | - | - | 11,300 | Ton | 910 | 10,318,000 | 33% |
| | | 2015 | - | - | 7,660 | Ton | 1,010 | 7,737,000 | |
| | White Varieties | 2016 | - | - | 12,500 | Ton | 737 | 9,242,000 | 27% |
| | | 2015 | - | - | 10,270 | Ton | 706 | 7,251,000 | |
| | Total Grapes | 2016 | 4,110 | 5.79 | 23,800 | Ton | - | 19,560,000 | 31% |
| | | 2015 | 4,440 | 4.04 | 17,930 | Ton | - | 14,988,000 | |
| Olives ² | | 2016 | 170 | 1.63 | 277 | Ton | 2,370 | 656,000 | 4% |
| | | 2015 | 180 | 1.37 | 247 | Ton | 2,560 | 631,000 | |
| Prunes (Dried) | | 2016 | 1,190 | 1.46 | 1,740 | Ton | 1,920 | 3,336,000 | -41% |
| | | 2015 | 893 | 2.56 | 2,286 | Ton | 2,470 | 5,647,000 | |
| Walnuts | | 2016 | 11,400 | 1.84 | 20,900 | Ton | 2,140 | 44,822,000 | 18% |
| | | 2015 | 10,510 | 1.50 | 15,800 | Ton | 2,400 | 37,912,000 | |
| Miscellaneous ³ | | 2016 | 1,090 | - | - | - | - | 3,377,000 | -32% |
| | | 2015 | 1,190 | - | - | - | - | 4,960,000 | |
| TOTAL FRUIT & NUT CROPS | | 2016 | 26,800 | | | | | \$127,228,000 | 45% |
| | | 2015 | 24,093 | | | | | \$87,741,000 | |

Figures may not add due to rounding.

¹Includes acreage not harvested or sold.

²Value per unit based on oil value.

³Includes almond hulls, apples, apricots, blackberries, cherries, citrus, figs, grapes (table), kiwi, nectarines, peaches, pears, persimmons, pistachios, plums, pomegranates, and strawberries.



Field & Forage Crops

| CROP | | YEAR | HARVESTED ACRES | PRODUCTION | | UNIT | VALUE | | |
|---------------------------------|---------------------------|------|-----------------|------------|---------|------|--------------|------------|----------|
| | | | | PER ACRE | TOTAL | | PER UNIT | TOTAL | % CHANGE |
| Beans, Dry | | 2016 | 2,430 | 1.12 | 2,720 | Ton | 1,209.00 | 3,284,000 | -1% |
| | | 2015 | 2,850 | 1.09 | 3,110 | Ton | 1,100.00 | 3,332,000 | |
| Corn (Grain) | | 2016 | 4,410 | 4.72 | 20,800 | Ton | 156.73 | 3,262,000 | -24% |
| | | 2015 | 4,540 | 5.06 | 23,000 | Ton | 186.00 | 4,269,000 | |
| Hay | Alfalfa | 2016 | 30,500 | 5.24 | 160,000 | Ton | 139.28 | 22,267,000 | -36% |
| | | 2015 | 31,270 | 6.01 | 188,000 | Ton | 185.00 | 34,821,000 | |
| | Grain | 2016 | 4,650 | 3.71 | 17,300 | Ton | 95.97 | 1,657,000 | 87% |
| | | 2015 | 2,150 | 3.34 | 7,160 | Ton | 124.00 | 885,000 | |
| | Ryegrass | 2016 | 4,610 | 2.50 | 11,500 | Ton | 70.01 | 807,000 | -70% |
| | | 2015 | 7,230 | 3.35 | 24,200 | Ton | 110.00 | 2,666,000 | |
| | Sudangrass | 2016 | 4,550 | 2.50 | 11,375 | Ton | 143.58 | 2,417,000 | -35% |
| | | 2015 | 6,330 | 3.85 | 24,400 | Ton | 152.00 | 3,705,000 | |
| | Grass/Forage ¹ | 2016 | 3,620 | 3.50 | 12,700 | Ton | 117.83 | 1,491,000 | 11% |
| | | 2015 | 2,580 | 3.17 | 8,180 | Ton | 165.00 | 1,348,000 | |
| Pasture, Irrigated ² | | 2016 | 21,600 | - | - | Acre | 115.83 | 2,498,000 | -38% |
| | | 2015 | 31,600 | - | - | Acre | 128.00 | 4,046,000 | |
| Pasture, Rangeland ³ | | 2016 | 189,000 | - | - | Acre | 21.34 | 4,035,000 | 1% |
| | | 2015 | 178,000 | - | - | Acre | 22.00 | 4,012,000 | |
| Safflower | | 2016 | 2,980 | 1.12 | 3,340 | Ton | 431.00 | 1,438,000 | 42% |
| | | 2015 | 1,630 | 1.20 | 1,960 | Ton | 517.00 | 1,013,000 | |
| Triticale | | 2016 | 6,060 | 2.58 | 15,600 | Ton | 136.40 | 2,134,000 | -41% |
| | | 2015 | 9,170 | 2.16 | 19,800 | Ton | 184.00 | 3,647,000 | |
| Wheat ⁴ | | 2016 | 19,400 | 2.61 | 50,600 | Ton | 146.86 | 7,428,000 | -18% |
| | | 2015 | 17,750 | 2.78 | 49,400 | Ton | 184.00 | 9,092,000 | |
| Miscellaneous ⁵ | | 2016 | 5,810 | - | - | - | - | 6,289,000 | 12% |
| | | 2015 | 5,130 | - | - | - | - | 5,618,000 | |
| TOTAL FIELD | | 2016 | 300,000 | | | | \$59,006,000 | -25% | |
| CROPS | | 2015 | 300,230 | | | | \$78,454,000 | | |

Figures may not add due to rounding.

¹Previously reported as Other.

²Acreage from the 2016 permit data.

³Acreage calculated using data from the California Department of Conservation 2012-2014 Land Use Conversion Report.

⁴Includes irrigated and dryland wheat.

⁵Includes barley, corn silage, safflower grain, straw and sunflower oil.



Apiary Production

| ITEM | YEAR | PRODUCTION | UNIT | VALUE | | |
|------------------------------|-------------|------------|--------|----------|--------------------|------------|
| | | | | PER UNIT | TOTAL | % CHANGE |
| Apiary Products ¹ | 2016 | - | - | - | 687,000 | 0% |
| | 2015 | - | - | - | 687,000 | |
| Pollination ² | 2016 | 14,000 | Colony | 113.00 | 1,579,000 | -4% |
| | 2015 | 20,130 | Colony | 81.94 | 1,650,000 | |
| TOTAL APIARY | 2016 | | | | \$2,266,000 | -3% |
| PRODUCTION | 2015 | | | | \$2,337,000 | |

Figures may not add due to rounding.

¹Apiary products includes beeswax, honey, honeycomb, packaged bees, and queen bees.

²Value based on acreage of crops requiring bees for pollination and number of colonies required for adequate pollination. Colony fee varies by crop. Crops pollinated include almond, asparagus, cherry, kiwi, prune, sunflower, and vine seed.



Nursery Products

| ITEM | YEAR | ACREAGE | TOTAL VALUE | % CHANGE |
|--------------------------------|-------------|--------------|---------------------|-----------|
| Nursery Stock ¹ | 2016 | 1,970 | 36,373,000 | 9% |
| | 2015 | 1,930 | 33,455,000 | |
| Propagative Stock ² | 2016 | 136 | 3,381,000 | -19% |
| | 2015 | 224 | 4,193,000 | |
| TOTAL NURSERY | 2016 | 1,440 | \$39,754,000 | 6% |
| PRODUCTS | 2015 | 2,150 | \$37,648,000 | |

Figures may not add due to rounding.

¹Includes christmas trees, cut flowers, greenhouse plants, herbaceous and woody ornamentals, and turf.

²Includes grafted grapevines, grapevine rootstock, and grapevine cuttings.



Vegetable Crops

| CROP | YEAR | HARVESTED ACRES | PRODUCTION | | UNIT | VALUE | | |
|------------------------------|-------------------------|-----------------|------------|---------|------|----------|---------------------|-------------|
| | | | PER ACRE | TOTAL | | PER UNIT | TOTAL | % CHANGE |
| Tomatoes (Processing) | 2016 | 10,400 | 46.43 | 455,000 | Ton | 74.38 | 33,843,000 | -20% |
| | 2015 | 11,800 | 44.42 | 524,000 | Ton | 80.44 | 42,156,000 | |
| Misc. Vegetables | Processing ¹ | 2016 | - | - | - | - | 6,204,000 | -18% |
| | | 2015 | - | - | - | - | 7,532,000 | |
| | Fresh ² | 2016 | - | - | - | - | 27,538,000 | -12% |
| | | 2015 | - | - | - | - | 31,332,000 | |
| TOTAL VEGETABLE CROPS | 2016 | 13,500 | | | | | \$67,447,000 | -17% |
| | 2015 | 14,620 | | | | | \$81,020,000 | |

Figures may not add due to rounding.

¹Includes cucumbers (pickling), garlic, and peppers.

²Includes beans, brassicas, cucumber, endive, garlic, herbs, leafy greens, melons, mushrooms, onions, peas, peppers, pumpkins, root vegetables, salad greens, sprouts, squash, sweet corn, tomatoes, tubers, and watermelon.



Seed Crops

| CROP | YEAR | HARVESTED ACRES | PRODUCTION | | UNIT | VALUE | | |
|----------------------------|------|--------------------|-------------|------------|------|----------|--------------|-------------|
| | | | PER ACRE | TOTAL | | PER UNIT | TOTAL | % CHANGE |
| Sunflower | 2016 | 7,920 | 1,540 | 12,200,000 | Lb | 0.94 | 11,414,000 | 65% |
| | 2015 | 4,720 | 1,190 | 5,600,000 | Lb | 1.23 | 6,904,000 | |
| Watermelon ¹ | 2016 | - | - | - | Lb | - | - | |
| | 2015 | 309 | 405 | 125,000 | Lb | 4.74 | 594,000 | |
| Cucumber ² | 2016 | 140 | 284 | 39,900 | Lb | 5 | 218,000 | |
| | 2015 | - | - | - | - | - | - | |
| Squash ¹ | 2016 | - | - | - | Lb | - | - | |
| | 2015 | 155 | 295 | 45,750 | Lb | 25 | 1,160,000 | |
| Miscellaneous ³ | 2016 | 1,030 | - | - | - | - | 4,846,000 | 58% |
| | 2015 | 619 | - | - | - | - | 3,071,000 | |
| TOTAL SEED CROPS | 2016 | 9,090 | | | | | \$16,478,000 | 40% |
| | 2015 | 5,803 | | | | | \$11,729,000 | |

Figures may not add due to rounding.

¹Watermelon and squash have been added to Miscellaneous.

²Cucumber has been removed from Miscellaneous.

³Includes asparagus, bean, cabbage, carrot, onion, and wheat.

Livestock & Poultry

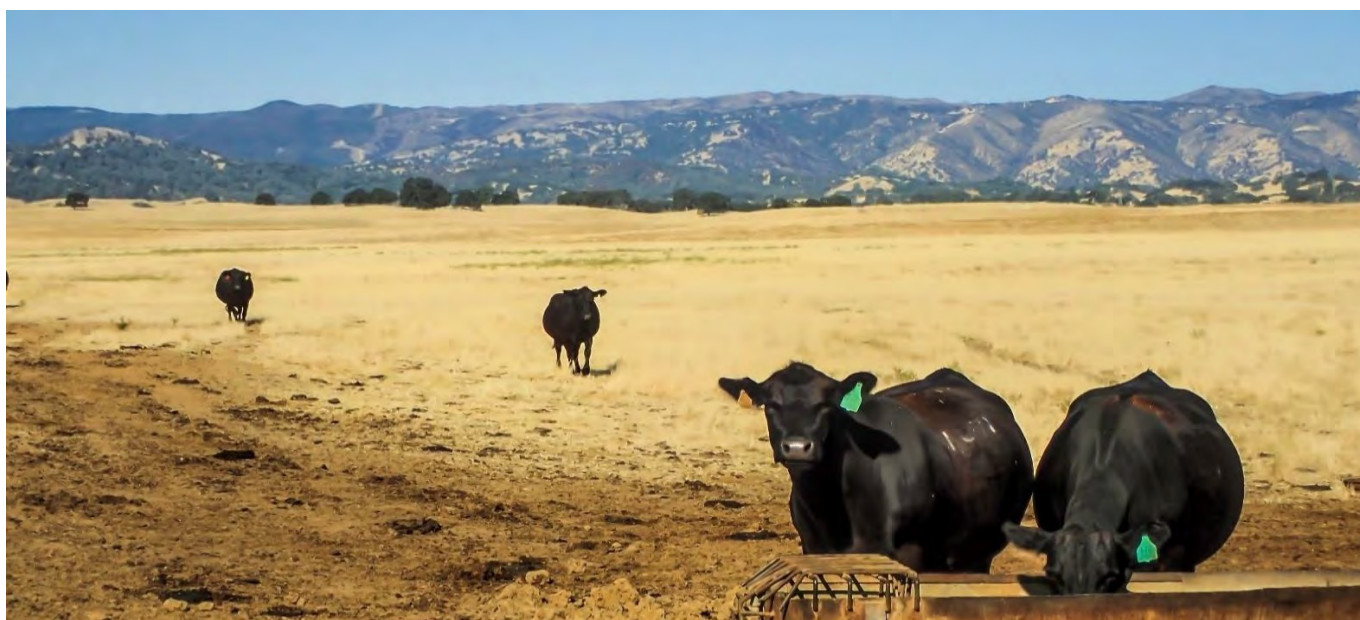
| ITEM | YEAR | NUMBER OF HEAD | TOTAL LIVEWEIGHT | UNIT | VALUE | | |
|----------------------------------------|-------------|----------------|------------------|------|----------|---------------------|-------------|
| | | | | | PER UNIT | TOTAL | % CHANGE |
| Cattle & Calves¹ | 2016 | 23,400 | 106,685 | Cwt | 96.50 | 9,192,000 | -67% |
| | 2015 | 25,000 | 131,219 | Cwt | 210.00 | 27,556,000 | |
| Sheep & Lambs² | 2016 | 59,000 | 66,704 | Cwt | | 9,339,000 | 40% |
| | 2015 | 29,700 | 41,259 | Cwt | 162.00 | 6,684,000 | |
| Miscellaneous³ | 2016 | 1,150,000 | - | - | - | 1,074,000 | -39% |
| | 2015 | - | - | - | - | 1,773,000 | |
| TOTAL LIVESTOCK & POULTRY | 2016 | | | | | \$19,605,000 | -46% |
| | 2015 | | | | | \$36,013,000 | |

Figures may not add due to rounding.

¹Includes beef stocker gain, dairy calves, dairy yearlings, dairy replacement heifers, and dairy cull cows.

²Includes feeder lamb gain.

³Includes goats, hogs, and poultry (chickens, doves, geese, and turkeys).



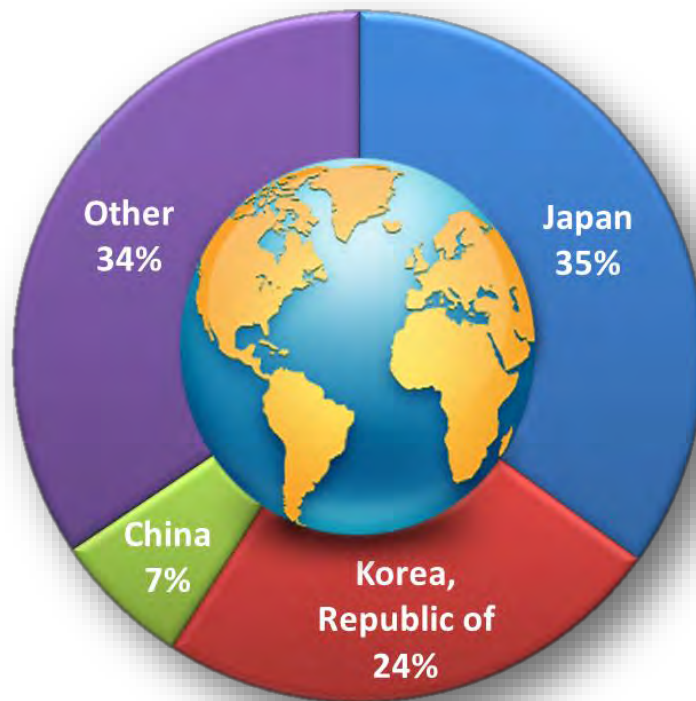
Livestock & Poultry Products

| ITEM | YEAR | PRODUCTION | UNIT | VALUE | | |
|-----------------------------------------------|-------------|------------|-------|----------|---------------------|-------------|
| | | | | PER UNIT | TOTAL | % CHANGE |
| Eggs, Chicken | 2016 | 113,000 | Dozen | 3.82 | 432,000 | -5% |
| | 2015 | 144,000 | Dozen | 3.14 | 453,000 | |
| Wool | 2016 | 198,000 | Lb | 1.62 | 321,000 | 221% |
| | 2015 | 213,000 | Lb | 0.47 | 100,110 | |
| Miscellaneous⁴ | 2016 | - | - | - | 14,635,000 | -20% |
| | 2015 | - | - | - | 18,374,000 | |
| TOTAL LIVESTOCK & POULTRY PRODUCTS | 2016 | | | | \$15,388,000 | -19% |
| | 2015 | | | | \$18,927,110 | |

Figures may not add due to rounding.

⁴Includes alpaca fiber, goat milk, and market milk.

Solano County Export Market



In 2016, the Solano County Agricultural Department issued 1096 phytosanitary certificates for commodities bound for export markets in 38 countries

Argentina
Australia
Brazil
Canada
Chile
China
Colombia
Dominican Republic
Egypt
Fiji
Germany

Hong Kong
India
Indonesia
Israel
Italy
Japan
Korea, Republic of
Kuwait
Latvia
Malaysia
Mexico

Netherlands
New Zealand
Panama
Peru
Philippines
Poland
Saudi Arabia
Singapore
Spain
Taiwan
Thailand

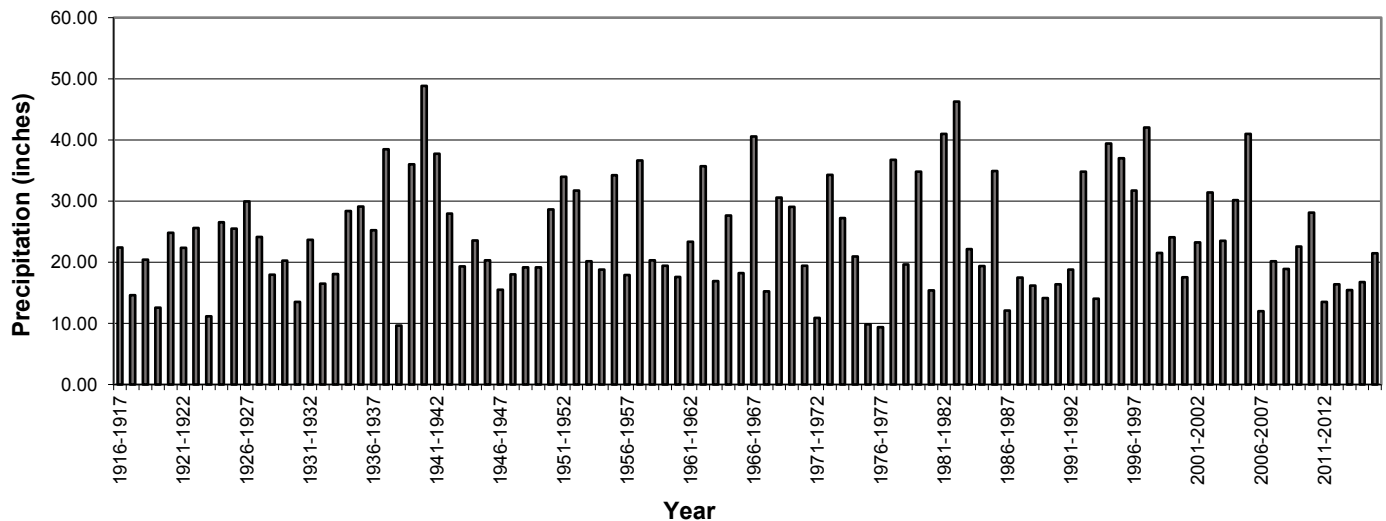
Uganda
United Arab Emirates
United Kingdom
Uruguay
Viet Nam

100 Years of Annual Precipitation at Vacaville, CA

| YEAR | INCHES | YEAR | INCHES | YEAR | INCHES | YEAR | INCHES |
|-----------|--------|-----------|--------|-----------|--------|-----------|--------|
| 1916-1917 | 22.40 | 1941-1942 | 37.72 | 1966-1967 | 40.54 | 1991-1992 | 18.77 |
| 1917-1918 | 14.61 | 1942-1943 | 27.94 | 1967-1968 | 15.26 | 1992-1993 | 34.79 |
| 1918-1919 | 20.41 | 1943-1944 | 19.33 | 1968-1969 | 30.56 | 1993-1994 | 14.01 |
| 1919-1920 | 12.58 | 1944-1945 | 23.55 | 1969-1970 | 29.07 | 1994-1995 | 39.43 |
| 1920-1921 | 24.79 | 1945-1946 | 20.32 | 1970-1971 | 19.42 | 1995-1996 | 36.99 |
| 1921-1922 | 22.34 | 1946-1947 | 15.47 | 1971-1972 | 10.89 | 1996-1997 | 31.74 |
| 1922-1923 | 25.62 | 1947-1948 | 17.99 | 1972-1973 | 34.30 | 1997-1998 | 42.01 |
| 1923-1924 | 11.15 | 1948-1949 | 19.15 | 1973-1974 | 27.23 | 1998-1999 | 21.52 |
| 1924-1925 | 26.53 | 1949-1950 | 19.16 | 1974-1975 | 20.93 | 1999-2000 | 24.09 |
| 1925-1926 | 25.48 | 1950-1951 | 28.61 | 1975-1976 | 9.84 | 2000-2001 | 17.56 |
| 1926-1927 | 29.96 | 1951-1952 | 33.99 | 1976-1977 | 9.38 | 2001-2002 | 23.24 |
| 1927-1928 | 24.14 | 1952-1953 | 31.72 | 1977-1978 | 36.75 | 2002-2003 | 31.42 |
| 1928-1929 | 17.98 | 1953-1954 | 20.17 | 1978-1979 | 19.64 | 2003-2004 | 23.49 |
| 1929-1930 | 20.26 | 1954-1955 | 18.81 | 1979-1980 | 34.79 | 2004-2005 | 30.14 |
| 1930-1931 | 13.49 | 1955-1956 | 34.24 | 1980-1981 | 15.39 | 2005-2006 | 40.98 |
| 1931-1932 | 23.64 | 1956-1957 | 17.90 | 1981-1982 | 41.00 | 2006-2007 | 12.01 |
| 1932-1933 | 16.50 | 1957-1958 | 36.64 | 1982-1983 | 46.26 | 2007-2008 | 20.17 |
| 1933-1934 | 18.06 | 1958-1959 | 20.30 | 1983-1984 | 22.12 | 2008-2009 | 18.89 |
| 1934-1935 | 28.35 | 1959-1960 | 19.40 | 1984-1985 | 19.37 | 2009-2010 | 22.55 |
| 1935-1936 | 29.12 | 1960-1961 | 17.58 | 1985-1986 | 34.89 | 2010-2011 | 28.12 |
| 1936-1937 | 25.22 | 1961-1962 | 23.36 | 1986-1987 | 12.09 | 2011-2012 | 13.53 |
| 1937-1938 | 38.46 | 1962-1963 | 35.71 | 1987-1988 | 17.48 | 2012-2013 | 16.39 |
| 1938-1939 | 9.64 | 1963-1964 | 16.93 | 1988-1989 | 16.15 | 2013-2014 | 15.42 |
| 1939-1940 | 36.02 | 1964-1965 | 27.63 | 1989-1990 | 14.12 | 2014-2015 | 16.74 |
| 1940-1941 | 48.82 | 1965-1966 | 18.24 | 1990-1991 | 16.36 | 2015-2016 | 21.47 |

The average annual precipitation over the 100 year period from October 1, 1916 to September 30, 2016 is 23.97 inches.

Annual Precipitation (Vacaville, CA)



Annual Precipitation is from October 1 to September 30

Source: NOAA National Climatic Data Center

Sustainable Agriculture – 2016 Highlights

Pest Prevention

The California Food and Agricultural Code mandates pest prevention programs to prevent the introduction and spread of pests in California. Pest prevention involves Pest Exclusion, Pest Detection, Pierce's Disease Control, and the State Export Certification Program.

Pest Exclusion is the first line of defense to prevent detrimental, non-native pests from entering the county.

A total of 147 premise visits occurred at shipping terminals, nurseries, and residences in 2016. During these visits 911 shipments of plant material, seed, and household goods were inspected. Eleven shipments were rejected for live pests, material not properly certified, or improper container markings. Rejected plant material is returned to the shipper, reconditioned and released, or destroyed.

Department personnel inspected 17 production nurseries, comprising 1,945 acres, for pests and diseases. These nurseries produce a variety of nursery stock, including ornamental plants, sod (turfgrass), vegetable plants, and fruit trees, for sale within California as well as to other states and North American countries.

The **Pierce's Disease Control Program** works to prevent the spread of the Glassy-winged Sharpshooter (GWSS) into Solano County, which is the main insect vector of Pierce's Disease. Department personnel inspected 595 shipments of nursery stock arriving from infested counties in California.

Pest Detection is Solano County's second line of defense against the introduction and spread of insect pests. Insect traps are placed and monitored to detect whether a pest is present in a particular location. In 2016, 29,075 trap inspections were conducted.

| Pest Detection Trapping | | | |
|------------------------------------------------------------------|-----------------------------------|------------|----------------------|
| TARGET PEST | HOSTS | # OF TRAPS | # OF TRAP SERVICINGS |
| ASIAN CITRUS PSYLLID (<i>Diaphorina citri</i>) | Ornamental & nursery plants | 385 | 1,198 |
| APPLE MAGGOT (<i>Rhagoletis pomonella</i>) | Fruit trees | 47 | 304 |
| EUROPEAN GRAPEVINE MOTH (<i>Lobesia botrana</i>) | Vineyards | 480 | 6,411 |
| GLASSY-WINGED SHARPSHOOTER (<i>Homalodisca vitripennis</i>) | Nursery & urban landscape plants | 806 | 9,781 |
| GYPSY MOTH (<i>Lymantria dispar</i>) | Shade trees | 240 | 1,570 |
| JAPANESE BEETLE (<i>Popillia japonica</i>) | Turf & roses | 207 | 1,305 |
| LIGHT BROWN APPLE MOTH (<i>Epiphyas postvittana</i>) | Nursery & urban ornamental plants | 214 | 1,893 |
| MEDITERRANEAN FRUIT FLY (<i>Ceratitis capitata</i>) | Fruit trees | 231 | 2,330 |
| MELON FLY (<i>Bactrocera cucurbitae</i>) | Vegetable gardens | 88 | 1,270 |
| ORIENTAL FRUIT FLY (<i>Bactrocera dorsalis</i>) | Fruit trees | 86 | 846 |
| OTHER FRUIT FLIES (McPhail traps) | Fruit trees & vegetables | 88 | 2,167 |

Pests Found via Detection Trapping



Mediterranean Fruit Fly (*Ceratitis capitata*)

Found October 13, 2016,
Vacaville, CA



Asian Citrus Psyllid (*Diaphorina citri*)

Found November 14, 2016,
Fairfield, CA

Sustainable Agriculture – 2016 Highlights

The **Phytosanitary Certification Program** ensures that plants and plant commodities exported to other states or foreign countries from Solano County are free from injurious pests. Solano County staff performed 401 Phytosanitary Field Inspections on 4,515 acres of seed crops. A total of 1,650 Phytosanitary Certificates for plant commodities exported to international and interstate destinations, and consisting of 1,096 Federal Certificates for international exports and 554 California State Certificates for interstate shipments.

The **Sudden Oak Death** program works to prevent the spread of Sudden Oak Death, the disease caused by the pathogen *Phytophthora ramorum*. Department personnel conducted 61 inspections at 5 production shipping nurseries, and found zero incidences of Sudden Oak Death.

Pest Eradication

The primary objective of the Pest Eradication Program is to quickly and efficiently eliminate infestations of serious agricultural pests with limited distribution before they are able to establish and spread in California.

Egyptian Broomrape (*Orobanche aegyptiaca*) is a parasitic plant that infects many economically important crops, such as tomato, sunflower, bell pepper, carrot, and various legumes. It is a major problem in the Middle East and Eastern Europe.

The first U.S. detection of Egyptian Broomrape was found in a processing tomato field in Solano County in July 2014. Since then, mitigation, monitoring and eradication efforts have resulted in the field being declared eradicated in August 2016.

A processing tomato field neighboring the initial detection was found to have Egyptian Broomrape in August 2016. The newly identified field has been placed on hold and is

undergoing similar processes as the initial Egyptian Broomrape detection field, which includes herbicide treatment and burning of the infected host crop followed by methyl bromide fumigation treatment of the field and at least three plantings of trap crops. Solano County Agriculture Department and California Department of Food and Agriculture staff cooperatively monitor all eradication efforts of this parasitic plant pest.

Organic Farming

Solano County had 41 organic farms registered for organic production. These growers farmed a total of 2,009 acres to produce assorted organic berries, herbs, fruits, vegetables, microgreens, nuts, cut flowers, and olive oil. In addition, Solano County had over 5,002 acres of organic ryegrass, pastureland and rangeland. Organic eggs and poultry were also produced.



Certified Farmers Markets

The purpose of farmers' markets is to allow producers of agricultural commodities to sell directly to the public. Anyone who wishes to sell at a farmers' market must obtain a Certified Producers Certificate from the Agricultural Commissioner in the county where the produce was grown. Solano County certificates were issued to 34 producers in 2016, and six farmers' markets were certified by the Agricultural Commissioner to market local and regional produce in Solano County.

WEIGHTS & MEASURES DIVISION

Ever wonder how your Water, Electric, or Vapor (Gas) meter is tested? Residential meters are regulated by the Public Utilities Commission. However, meters used in sub-metering applications like mobile home parks or some apartment complexes fall under the county Weights and Measures jurisdiction which is the local regulatory authority for sub-metered devices within Solano County.



Water Bench

There are different methods for testing water, vapor, and electric meters. Water meters are tested on what is called a "Water Bench". Meters are loaded into the machine, then water is pumped through to purge air from the meters. Initial readings are taken, then water is pumped through the meters at a specific flow rate. The water is collected in a calibrated container. Once filled to the required volume, a final reading is taken from each meter and the percent error is calculated.

Vapor meters are first pressurized then submerged in a tub of water to test for leaks. After passing the leak test, meters are placed in a temperature controlled lab to stabilize. Once stabilized the meters are connected to a "Bell Prover" that pushes an exact volume of air through the meter. Start and end readings are taken and percent error is calculated.



Vapor Lab



Electric Test Bench

Electric meters are also tested in a lab on a "Test Bench". The meters are inserted into the test socket and then connected to an automatic testing computer. The computer runs a program to test the meter and calculates percent error.

Weights and Measures inspects approximately 10% of the sub-meter inventory each year. Also inspected are any new meters and meters that are suspected of failing to read correctly. Weights and Measures also investigates sub-meter billing and meter complaints.

Solano County currently has 672 registered establishments with various commercial devices as shown below:

| | | | |
|--------------------------------|--------|--------------------------|-----|
| Fabric/Cordage/Wire Meters | 38 | Computing Scales | 871 |
| LPG (Propane) Meters | 52 | Counter Scales | 142 |
| Misc. Measuring Devices | 10 | Livestock Scales | 20 |
| Odometers | 84 | Crane Scales | 3 |
| Retail Motor Fuel Meters | 4,249 | Portable Platform Scales | 58 |
| Retail Water Meters | 55 | Hanging Scales | 7 |
| Taxi Meters | 63 | Hopper/Tank Scales | 16 |
| Elec., Vapor, Water Sub-Meters | 10,551 | Monorail Meat Beam | 3 |
| Vehicle Meters | 28 | Vehicle & Railway Scales | 59 |
| Wholesale Meters | 44 | Dormant Scales | 46 |

The Solano County Weights & Measures Division in cooperation with the other 57 counties and the California Division of Measurement Standards promotes fair trade practices throughout California.

GENERAL INFORMATION

POPULATION¹

Solano County Population: 430,972

| | | | |
|------------------------------|----------------------------|-----------------------------|---------------------------------|
| Benicia 27,574 | Dixon 19,065 | Fairfield 112,255 | Rio Vista 8,623 |
| Suisun City 29,168 | Vacaville 96,946 | Vallejo 117,629 | Unincorporated 19,712 |

AREA

| | | | |
|----------------------------------------|---------|---------------------------------------------------|---------|
| Land Area (Square Miles) ² | 909.95 | Urban and Built Up Land Area (Acres) ² | 60,488 |
| Land Area (Acres) ² | 582,370 | Land Area in Farms (Acres) ³ | 407,101 |
| Water Area (Square Miles) ² | 84.61 | Total Cropland (Acres) ³ | 169,637 |
| Water Area (Acres) ² | 54,153 | Irrigated Cropland (Acres) ³ | 130,909 |

FARMS

| | | | |
|-------------------------------------------------|-----|-----------------------------------------------|-----|
| Average US Size (Acres) ³ | 434 | Number of Farms in Solano County ³ | 860 |
| Average California Size (Acres) ³ | 328 | Full Time | 462 |
| Average Solano County Size (Acres) ³ | 473 | Part Time | 398 |

STATE RANKING

County Rank by Gross Value of Agricultural Production (2015)⁴

27th

Commodity Rank by Gross Value of Production (2015)⁴

| | |
|-----------------|------------------------|
| 1st - Triticale | 3rd - Wool |
| 4th - Sudan Hay | 4th - Sunflower (Seed) |
| | 5th - Sheep & Lamb |

FARMING REGIONS

| | | |
|----------------------|-------------------------------|---------------|
| Dixon Ridge | Jepson Prairie | Suisun Valley |
| Elmira/Maine Prairie | Montezuma Hills | Western Hills |
| Green Valley | Pleasants/Vaca/Lagoon Valleys | Winters |
| | Ryer Island | |

LOCAL ASSESSED PROPERTY VALUES (2016)⁵

\$49.2 Billion

TRANSPORTATION

Total Maintained County Road Miles

577

Major Roadways

Interstates 80, 505, 680, and 780
State Routes 12, 29, 37, 84, 113, and 220

¹Source: California Department of Finance, E-1: City/County Population Estimates as of January 1, 2017

²Source: California Department of Conservation 2014 Land Use Conversion

³Source: USDA National Agricultural Statistics Service 2012 Census of Agriculture

⁴Source: CDFA California Agricultural Statistics California County Agricultural Commissioners' Reports 2015

⁵Source: 2016 Solano County Annual Report