



ANNUAL CROP REPORT 2018



Agriculture / Weights & Measures

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Definitions

Cwt: Hundredweight, 100 pounds.

Greenchop: Hay and other field crops harvested by cutting into small pieces and fed directly to animals.

Silage: Greenchop placed into air-tight bags or enclosures and allowed to ferment, thus increasing the nutritional value.

Started Pullets: Young chickens produced to replace old egg-laying hens.

Spent Hens: Egg laying chickens who have reached the end of their productive careers.

Calves: Young cows between 200 to 300 pounds, sold to ranchers to “feed” up to a size suitable for slaughter.

Beef: Cattle raised for meat and by-products. Most of these are young male calves.

Replacement Heifers: Young female cows destined for milk production.

Cull Cows: Milk cows that have reached the end of their productive careers and are sold for slaughter. Reported as “Dairy Culls” in cattle and calves.





Agriculture / Weights & Measures Community Services Group

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Agricultural Commissioner/Sealer

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KAREN ROSS, SECRETARY
CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE

HONORABLE MEMBERS OF THE BOARD OF SUPERVISORS
COUNTY OF SAN BERNARDINO

It is my pleasure to present the 2018 San Bernardino County Crop Report that was prepared pursuant to the provisions of Sections 2272 and 2279 of the California Food and Agricultural Code. This report provides the estimated production, acreage and gross value of the agricultural industry in San Bernardino County for the year 2018. These figures represent the gross returns to the producer and not actual net profit.

The overall value of agriculture in San Bernardino County totaled \$493,393,000, an increase of \$36,942,000 from 2017. This 7.5% increase was primarily due to a higher value received for milk and eggs produced in the County, combined with an increase in the value of Nursery Products, Fruit and Nut Crops, and Vegetable Crops. Nursery Products, led by sales of Indoor Decorative Plants, continues to increase in value as demand for those products remains high.

Acreage for Field Crops has declined, partially contributed to the high cost of water and some producers are selling their land for other uses. The acreage for Valencia Oranges has decreased because some growers sold their land to developers.

All data shown represents gross production and values only. All prices noted are estimated based on the average price received by growers and producers. In order to ensure confidentiality, commodities produced by three or fewer growers continue to be incorporated into the miscellaneous categories for their commodity groups. Those categories also include a wide variety of specialty products that are not produced in sufficient quantities to appear individually in this report. Due to rounding, numbers presented throughout this report may not add up precisely to the totals provided.

As with many of the counties in California, agriculture remains a critical component of the economy in San Bernardino County. This report contains local production information gathered from a variety of sources including personal contact with individual County growers and producers by my staff. Their dedicated efforts provided the vital information that enables this report to be as complete and detailed as possible.

Respectfully submitted,

A handwritten signature in blue ink that reads "Roberta Y. Willhite".

Roberta Y. Willhite
Agricultural Commissioner/Sealer

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Summary of Highlights

| | |
|---|---------------------------|
| Total Value of Production | \$493,393,000 |
| Total increase in \$ value from 2017 | \$36,942,000 |
| Commodity with highest reported \$ value | Milk |
| Highest \$ value per acre | Indoor Decoratives |
| Lowest \$ value per acre | Rangeland Grazing |
| Greatest % increase in total value from 2017 | Lettuce |
| Greatest % decrease in total value from 2017 | Red Wine Grapes |
| Crop with the greatest amount of planted acreage | Alfalfa |

TOP TEN PRODUCTS

| 2018 Rank | Product | Value | % of Total | 2017 Rank |
|-----------|----------------------------|----------------|------------|-----------|
| 1 | Milk | \$ 174,308,000 | 35.3% | 1 |
| 2 | Cattle & Calves (Meat) | \$ 96,857,000 | 19.6% | 2 |
| 3 | Eggs | \$ 43,491,000 | 8.8% | 3 |
| 4 | Replacement Heifers | \$ 27,684,000 | 5.6% | 4 |
| 5 | Trees & Shrubs | \$ 23,561,000 | 4.8% | 5 |
| 6 | Indoor Decoratives | \$ 21,606,000 | 4.4% | 6 |
| 7 | Citrus Fruit | \$ 12,009,000 | 2.4% | 9 |
| 8 | Oriental Vegetables | \$ 8,534,000 | 1.7% | 8 |
| 9 | Groundcover/Bedding Plants | \$ 7,534,000 | 1.5% | 10 |
| 10 | Alfalfa (All types) | \$ 7,084,000 | 1.4% | 7 |

TOTAL TOP TEN \$ 422,668,000

Indoor Decoratives includes Bonsai, Orchids, and Terrarium Plants

Trees & Shrubs includes Roses and Palm Trees

Citrus fruit includes Calamondin, Grapefruit, Kumquat, Lemons, Limes, Mandarins, Oranges (Blood, Cara Cara, Navel, Valencia), Tangelo, Tangerine

Oriental Vegetables includes Bok Choy, Gai Choy, Gai Lan, Sher-Li-Hon, and Yu Choy



Fruit & Nut Crops

| | Year | Acres Harvested | Ton / Acre | Total Yield / Unit | \$ Per Unit | \$ Per Acre | Total \$ Value |
|--|-------------|-----------------|-------------|--------------------|-------------------|-------------------|--------------------|
| Citrus | | | | | | | |
| Grapefruit | 2018 | 102 | 11.7 | 1,197 Ton | \$417.71 | \$4,881.86 | \$500,000 |
| | 2017 | 91 | 3.3 | 300 Ton | \$380.00 | \$1,258.97 | \$114,000 |
| Lemons | 2018 | 716 | 6.7 | 4,771 Ton | \$931.43 | \$6,209.03 | \$4,444,000 |
| | 2017 | 310 | 2.7 | 851 Ton | \$809.63 | \$2,224.02 | \$689,000 |
| Oranges, Navel | 2018 | 926 | 18.9 | 17,467 Ton | \$261.46 | \$4,930.63 | \$4,567,000 |
| | 2017 | 910 | 12.4 | 11,318 Ton | \$369.67 | \$4,597.70 | \$4,184,000 |
| Oranges, Valencia | 2018 | 669 | 16.0 | 10,711 Ton | \$216.70 | \$3,466.99 | \$2,321,000 |
| | 2017 | 795 | 11.0 | 8,720 Ton | \$365.24 | \$4,003.99 | \$3,185,000 |
| Tangelos | 2018 | 4 | 8.2 | 35 Ton | \$1,027.98 | \$8,458.65 | \$36,000 |
| | 2017 | 3 | 18.3 | 55 Ton | \$944.94 | \$17,275.75 | \$52,000 |
| Other Citrus* | 2018 | 18 | 6.0 | 108 Ton | \$1,310.46 | \$7,834.64 | \$141,000 |
| | 2017 | 11 | 5.1 | 56 Ton | \$1,940.06 | \$9,962.18 | \$108,000 |
| * Incl: Orange (Blood & Cara Cara), Calamondin, Citron, Kumquat, Limes, Mandarins, Minneola, Pomelo, Tangerine | | | | | | | |
| Apples | 2018 | 298 | 2.4 | 701 Ton | \$1,880.09 | \$4,418.22 | \$1,318,000 |
| | 2017 | 311 | 2.3 | 710 Ton | \$2,125.35 | \$4,853.65 | \$1,509,000 |
| Avocados | 2018 | 457 | 3.9 | 1,761 Ton | \$2,378.07 | \$9,160.10 | \$4,188,000 |
| | 2017 | 477 | 3.1 | 1,470 Ton | \$2,349.93 | \$7,237.30 | \$3,454,000 |
| Grapes, Zinfandel | 2018 | 147 | 0.1 | 17 Ton | \$1,086.98 | \$122.45 | \$18,000 |
| | 2017 | 147 | 2.3 | 335 Ton | \$617.58 | \$1,408.16 | \$207,000 |
| Grapes, Red Wine | 2018 | 76 | 0.8 | 61 Ton | \$1,249.93 | \$1,000.00 | \$76,000 |
| | 2017 | 121 | 1.0 | 119 Ton | \$792.45 | \$776.86 | \$94,000 |



Fruit & Nut Crops

(cont.)

| | Year | Acres Harvested | Ton / Acre | Total Yield / Unit | \$ Per Unit | \$ Per Acre | Total \$ Value |
|------------------------------|-------------|-----------------|-------------|--------------------|-------------------|--------------------|---------------------|
| Jujubes | 2018 | 87 | 1.6 | 140 Ton | \$7,498.39 | \$11,997.25 | \$1,047,000 |
| | 2017 | 87 | 1.6 | 139 Ton | \$10,563.48 | \$16,769.23 | \$1,466,000 |
| Passion Fruit | 2018 | 6 | 2.1 | 13 Ton | \$4,000.00 | \$8,333.33 | \$50,000 |
| | 2017 | 4 | 1.9 | 8 Ton | \$10,250.00 | \$19,294.12 | \$82,000 |
| Pears | 2018 | 29 | 6.0 | 173 Ton | \$658.81 | \$3,952.84 | \$114,000 |
| | 2017 | 39 | 3.0 | 117 Ton | \$672.80 | \$2,018.40 | \$79,000 |
| Pistachios | 2018 | 338 | 0.2 | 69 Ton | \$5,304.46 | \$1,079.56 | \$365,000 |
| | 2017 | 338 | 0.1 | 27 Ton | \$3,364.14 | \$269.21 | \$91,000 |
| Pomegranates | 2018 | 10 | 7.9 | 78 Ton | \$1,052.50 | \$8,321.49 | \$82,000 |
| | 2017 | 21 | 1.7 | 36 Ton | \$5,767.88 | \$9,775.08 | \$206,000 |
| Strawberries | 2018 | 115 | 15.5 | 1,785 Ton | \$1,911.48 | \$29,633.49 | \$3,412,000 |
| | 2017 | 97 | 12.0 | 1,161 Ton | \$1,950.04 | \$23,400.52 | \$2,264,000 |
| Miscellaneous** | 2018 | 121 | 2.7 | 329 Ton | \$1,302.16 | \$3,538.04 | \$429,000 |
| | 2017 | 268 | 0.9 | 249 Ton | \$2,222.83 | \$2,063.26 | \$553,000 |
| TOTAL | 2018 | 3,789 | | | | | \$22,757,000 |
| FRUIT & NUT CROPS | 2017 | 3,689 | | | | | \$18,194,000 |

*Miscellaneous 2018: Almond, Apricot, Aprium, Asian Pear, Blackberries, Blueberries, Boysenberries, Cherimoya, Cherries, Crab Apple, Dates, Fig, Grapes (Table & White Wine), Guava, Jojoba, Kiwi, Loquat, Mango, Mulberry, Nectarine, Olive, Peaches, Persimmons, Plum, Pluot, Raspberries, Ume Plum, Walnuts

**Miscellaneous 2017: Almond, Apricot, Aprium, Asian Pear, Blackberries, Blueberries, Boysenberries, Cherimoya, Cherries, Crab Apple, Fig, Grapes (Table & White Wine), Guava, Jojoba, Kiwi, Loquat, Macadamia nuts, Mango, Mulberry, Necta-Plum, Nectarine, Olive, Peaches, Pears, Pecan, Persimmons, Pistachios, Pluery, Plum, Pluot, Pomegranates, Raspberries, Sapote, Ume Plum, Walnuts



Field Crops

| | Year | Acres Harvested | Ton / Acre | Total Yield / Unit | \$ Per Unit | \$ Per Acre | Total \$ Value |
|---------------------------|-------------|------------------|------------|--------------------|-------------------|-------------------|---------------------|
| Greenchop | | | | | | | |
| Alfalfa | 2018 | 750 | 25 | 18,750 Ton | \$109.01 | \$2,725.33 | \$2,044,000 |
| | 2017 | 650 | 25 | 16,250 Ton | \$83.02 | \$2,075.38 | \$1,349,000 |
| Oats | 2018 | 352 | 12 | 4,224 Ton | \$81.91 | \$982.95 | \$346,000 |
| | 2017 | 350 | 12 | 4,200 Ton | \$70.00 | \$840.00 | \$294,000 |
| Sudan | 2018 | 1,871 | 6 | 11,226 Ton | \$38.84 | \$233.03 | \$436,000 |
| | 2017 | 1,690 | 6 | 9,633 Ton | \$104.95 | \$598.22 | \$1,011,000 |
| Hay | | | | | | | |
| Alfalfa | 2018 | 4,502 | 7 | 30,389 Ton | \$160.26 | \$1,081.74 | \$4,870,000 |
| | 2017 | 5,750 | 7 | 42,670 Ton | \$274.99 | \$2,040.70 | \$11,734,000 |
| Bermuda | 2018 | 900 | 6 | 5,400 Ton | \$196.48 | \$1,178.89 | \$1,061,000 |
| | 2017 | 550 | 8 | 4,400 Ton | \$280.00 | \$2,240.00 | \$1,232,000 |
| Sudan | 2018 | 409 | 8 | 3,275 Ton | \$198.47 | \$1,587.69 | \$650,000 |
| | 2017 | 483 | 6 | 2,759 Ton | \$193.55 | \$1,105.59 | \$534,000 |
| Misc. Mixed Hay | 2018 | 370 | 3 | 1,203 Ton | \$240.32 | \$781.08 | \$289,000 |
| | 2017 | 246 | 23 | 5,728 Ton | \$144.91 | \$3,373.98 | \$830,000 |
| Silage | | | | | | | |
| Corn | 2018 | 1,665 | 28 | 46,787 Ton | \$49.59 | \$1,393.39 | \$2,320,000 |
| | 2017 | 1,545 | 26 | 40,937 Ton | \$48.95 | \$1,297.09 | \$2,004,000 |
| Sorghum | 2018 | 707 | 19 | 13,584 Ton | \$66.70 | \$1,280.75 | \$906,000 |
| | 2017 | 700 | 27 | 19,000 Ton | \$65.00 | \$1,764.29 | \$1,235,000 |
| Wheat | 2018 | 1,565 | 2 | 2,348 Ton | \$189.99 | \$284.98 | \$446,000 |
| | 2017 | 1,305 | 9 | 11,440 Ton | \$50.00 | \$438.31 | \$572,000 |
| Pasture | 2018 | 513 | | Acre | \$1,649.12 | | \$846,000 |
| | 2017 | 513 | | Acre | \$1,649.12 | | \$846,000 |
| Rangeland Grazing* | 2018 | 1,348,920 | | Acre | \$0.30 | | \$402,000 |
| | 2017 | 1,407,720 | | Acre | \$0.38 | | \$536,000 |
| Miscellaneous** | 2018 | 13,079 | 5 | 61,801 Ton | \$165.35 | \$781.36 | \$10,219,000 |
| | 2017 | 1,032 | 8 | 8,529 Ton | \$66.24 | \$547.48 | \$565,000 |
| TOTAL FIELD CROPS | 2018 | 1,374,403 | | | | | \$22,756,000 |
| | 2017 | 1,422,534 | | | | | \$22,742,000 |

* Range value is derived from the carrying capacity and the current Animal Unit Month (AUM) fee charged for federal grazing land.

**Miscellaneous 2018: Hay (Barley, Oats, Rye, Wheat); Greenchop (Rye, Sorghum, Sudan Grass, Wheat); Silage (Alfalfa, Oats, Rye, Sudan Grass), Cropland Forage

**Miscellaneous 2017: Oat Hay, Greenchop (Rye), Silage (Alfalfa, Oats, Rye, Sudan Grass)



Nursery Products

| | Year | Greenhouse Sq. Ft. | Field Acres | Quantity Sold | Unit | \$ Per Unit | \$ Per Acre | Total \$ Value |
|---|-------------|-----------------------|----------------|-------------------|---------------|-----------------|-----------------------|---------------------|
| Bedding Plants | 2018 | 4,800 | 25 | 113,484 | Flats | \$9.47 | \$42,389.27 | \$1,075,000 |
| | 2017 | 4,800 | 10 | 345,830 | Flats | \$3.52 | \$117,468.86 | \$1,217,000 |
| Christmas Trees | 2018 | | 11 | 1,150 | Trees | \$63.48 | \$6,790.70 | \$73,000 |
| | 2017 | | 55 | 7,748 | Trees | \$62.47 | \$8,800.00 | \$484,000 |
| Ground Cover | 2018 | 149,350 | 75 | 1,960,100 | Flats | \$3.30 | \$81,916.48 | \$6,459,000 |
| | 2017 | 65,340 | 53 | 1,976,300 | Flats | \$3.32 | \$119,566.01 | \$6,557,000 |
| Indoor Decoratives (Incl. Bonsai & Orchids) | 2018 | 369,850 | | 933,000 | Plants | \$23.16 | \$2,544,700.18 | \$21,606,000 |
| | 2017 | 322,890 | | 799,300 | Plants | \$20.73 | \$2,235,132.96 | \$16,568,000 |
| Trees & Shrubs (Incl. Roses) | 2018 | 17,750 | 346 | 1,553,400 | Plants | \$12.54 | \$56,148.95 | \$19,474,000 |
| | 2017 | 2,542 | 318 | 1,336,800 | Plants | \$12.51 | \$52,660.68 | \$16,726,000 |
| Palm Trees | 2018 | | 52 | 7,200 | Plants | \$567.64 | \$56,148.95 | \$19,474,000 |
| | 2017 | | 82 | 13,200 | Plants | \$287.12 | \$45,983.98 | \$3,790,000 |
| Turf | 2018 | | 610 | 27,144,150 | Sq Ft | | \$11,573.60 | \$7,057,000 |
| | 2017 | | 610 | 37,003,695 | Sq Ft | | \$7,957.36 | \$4,852,000 |
| Miscellaneous* | 2018 | 16,400 | 53 | 160,436 | Plants | \$7.77 | \$23,467.86 | \$1,247,000 |
| | 2017 | 16,400 | 53 | 160,436 | Plants | \$7.77 | \$23,467.86 | \$1,247,000 |
| TOTAL | 2018 | 809,457 | 1,919 | | | | | \$61,214,000 |
| NURSERY PROD. | 2017 | 411,972 | 1,188 | | | | | \$51,441,000 |

*Miscellaneous 2018 : Cactus & Succulents, Cut Flowers, Poinsettias, Seasonal Vegetable transplants, Small Fruit Trees

*Miscellaneous 2017 : Berry Plants, Cactus & Succulents, Cut Flowers, Grapevines (Table Grapes), Poinsettias, Seasonal Vegetable transplants, Small Fruit Trees



Animal Products

| | Year | Production | Unit | \$ Per Unit | Total \$ Value |
|--|-------------|-------------------|--------------|----------------|----------------------|
| Milk | 2018 | 9,631,100 | cwt. | \$17.65 | \$169,989,000 |
| | 2017 | 9,516,900 | cwt. | \$16.46 | \$156,648,000 |
| Milk Products (Cheese, Yogurt, etc) | 2018 | 267,250 | cwt. | \$16.16 | \$4,319,000 |
| | 2017 | 264,090 | cwt. | \$18.23 | \$4,814,000 |
| Eggs, Chicken | 2018 | 37,817,889 | dozen | \$1.15 | \$43,491,000 |
| | 2017 | 41,312,043 | dozen | \$0.87 | \$35,942,000 |

Livestock & Animal Products

| | Year | # of Animals | Liveweight | Unit | \$ Per Unit | Total \$ Value |
|--|-------------|----------------|----------------|-------------|-----------------|----------------------|
| Cattle & Calves | 2018 | 42,840 | 276,400 | cwt. | \$152.53 | \$42,158,000 |
| | 2017 | 48,940 | 242,900 | cwt. | \$279.30 | \$67,841,000 |
| Dairy cull | 2018 | 33,600 | 470,400 | cwt. | \$57.43 | \$27,015,000 |
| | 2017 | 38,400 | 537,600 | cwt. | \$65.16 | \$35,030,000 |
| Replacement Heifers | 2018 | 42,500 | | Head | \$651.39 | \$27,684,000 |
| | 2017 | 48,600 | | Head | \$726.71 | \$35,318,000 |
| Poultry | | | | | | |
| | | | | | | |
| Started Pullets | 2018 | 891,000 | | ea. | \$3.56 | \$3,173,000 |
| | 2017 | 1,149,000 | | ea. | \$3.27 | \$3,757,000 |
| Turkeys | 2018 | 35,000 | 560,000 | lb. | \$12.80 | \$448,000 |
| | 2017 | 85,000 | 1,275,000 | lb. | \$16.35 | \$1,390,000 |
| Miscellaneous* | 2018 | | | | | \$428,000 |
| | 2017 | | | | | \$165,000 |
| TOTAL LIVESTOCK & ANIMAL PRODUCTS | 2018 | | | | | \$318,705,000 |
| | 2017 | | | | | \$340,905,000 |

*Miscellaneous Livestock 2018: Chickens (Spent Hens), Eggs (Duck, Quail, Turkey), Honey

*Miscellaneous Livestock 2017: Chickens (Spent Hens), Eggs (Duck, Emu, Geese, Guinea Fowl, Quail, Turkey), Honey



| | <u>2018</u> | <u>2017</u> |
|--------------------------------------|---------------|---------------|
| Estimated # of Dairies | 52 | 56 |
| Estimated # of Dairy Cows | 42,471 | 40,457 |
| Estimated # of Cows per Dairy | 817 | 722 |

Vegetable Crops

| | Year | Acres Harvested | Ton / Acre | Total Yield / Unit | \$ Per Unit | \$ Per Acre | Total \$ Value |
|---|--|-----------------|-------------|--------------------|-------------------|--------------------|--------------------|
| Beans <i>(Incl. Green Beans)</i> | 2018 | 32 | 3.7 | 118 Ton | \$1,576.65 | \$5,796.02 | \$186,000 |
| | 2017 | 24 | 6.6 | 169 Ton | \$981.33 | \$6,446.60 | \$166,000 |
| Carrots | 2018 | 5 | 34.3 | 171 Ton | \$548.26 | \$18,800.00 | \$94,000 |
| | 2017 | 5 | 54.6 | 291 Ton | \$508.41 | \$27,782.99 | \$148,000 |
| Corn, Sweet | 2018 | 75 | 11.0 | 826 Ton | \$525.22 | \$5,777.42 | \$434,000 |
| | 2017 | 39 | 12.1 | 479 Ton | \$577.90 | \$7,018.70 | \$277,000 |
| Herbs & Spices | 2018 | 172 | 3.0 | 515 Ton | \$2,499.32 | \$7,498.32 | \$1,286,000 |
| | 2017 | 57 | 5.3 | 301 Ton | \$5,281.92 | \$27,872.98 | \$1,589,000 |
| | 2018 Herbs: Arugula; Basil; Chervil; Chives; Cilantro; Dill; Marjoram; Mint; Oregano; Parsley (Italian); Pepper Spice; Peppermint; Purslane; Rosemary; Sage; Sorrel; Tarragon; Thyme; Vetch | | | | | | |
| | 2017 Herbs: Arugula; Basil; Chervil; Chives; Cilantro; Dandelion Greens; Dill; Fennel; Lavender; Marjoram; Mint; Oregano; Papalo; Parsley (Italian); Purslane; Rosemary; Sage; Savory; Tarragon; Thyme | | | | | | |
| Lettuce <i>(Loose Leaf & Romaine)</i> | 2018 | 47 | 12.9 | 604 Ton | \$741.72 | \$9,531.91 | \$448,000 |
| | 2017 | 11 | 9.6 | 102 Ton | \$707.17 | \$6,531.91 | \$72,000 |
| Onions, Dry | 2018 | 34 | 22.0 | 748 Ton | \$353.06 | \$7,764.71 | \$264,000 |
| | 2017 | 34 | 22.1 | 741 Ton | \$358.91 | \$7,935.56 | \$266,000 |
| Oriental Vegetables | | | | | | | |
| Bok Choy | 2018 | 892 | 30.7 | 27,341 Ton | \$194.83 | \$5,971.97 | \$5,327,000 |
| | 2017 | 892 | 30.7 | 27,341 Ton | \$194.83 | \$5,5971.97 | \$5,327,000 |
| Gai Choy <i>(mustard cabbage)</i> | 2018 | 386 | 11.2 | 4,318 Ton | \$74.58 | \$835.28 | \$322,000 |
| | 2017 | 53 | 132.7 | 6,965 Ton | \$310.41 | \$41,180.95 | \$2,162,000 |
| Gai Lan <i>(Chinese broccoli)</i> | 2018 | 137 | 11.2 | 1,529 Ton | \$270.80 | \$3,023.97 | \$414,000 |
| | 2017 | 111 | 28.0 | 3,097 Ton | \$372.32 | \$10,424.95 | \$1,153,000 |
| Sher-Li-Hon <i>(mustard greens)</i> | 2018 | 420 | 11.2 | 4,698 Ton | \$111.53 | \$1,249.11 | \$524,000 |
| | 2017 | 89 | 12.8 | 1,136 Ton | \$595.07 | \$7,595.51 | \$676,000 |
| Yu Choy | 2018 | 51 | 11.2 | 571 Ton | \$742.30 | \$8,313.73 | \$424,000 |
| | 2017 | 33 | 9.9 | 326 Ton | \$601.23 | \$5,939.39 | \$196,000 |
| Miscellaneous Oriental Vegetables | 2018 | 160 | 11.7 | 1,872 Ton | \$568.87 | \$6,658.33 | \$1,065,000 |
| | 2017 | 160 | 11.7 | 1,872 Ton | \$568.87 | \$6,658.33 | \$1,065,000 |
| | 2018 Misc. Oriental Vegetables: Choy Sum (Baby Bok Choy); Lo Bok (Daikon Radish); Don Qua (Winter Melon); Kabocha Squash; Ku Gua (Bitter Melon); Mizuna; Napa cabbage; Shungiku / Tong Ho (Chrysanthemum greens); Tatsoi; Tian cui wan dou (Snowpeas); Yin Choy (Amaranthus) | | | | | | |
| | 2017 Misc. Oriental Vegetables: Daikon Radish (Lo Bok); Diapa Oriental Onion; Kabocha Squash; Mizuna; Mu (Korean radish / radish Pak Choi (Chinese chard); Shungiku / Tong Ho (Chrysanthemum greens); Yu Choy | | | | | | |



Vegetable Crops

(cont.)

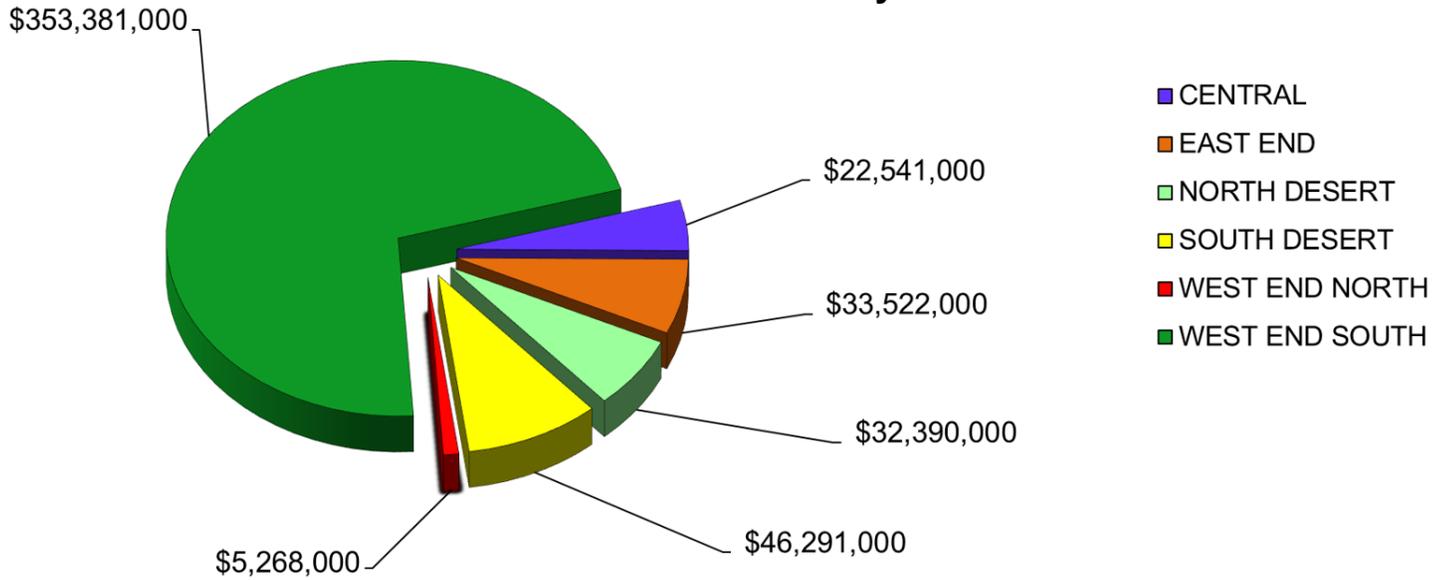
| | Year | Acres Harvested | Ton / Acre | Total Yield / Unit | \$ Per Unit | \$ Per Acre | Total \$ Value |
|----------------------------------|-------------|-----------------|-------------|--------------------|-------------------|--------------------|---------------------|
| Peppers, Bell | 2018 | 9 | 21.0 | 179 Ton | \$894.25 | \$18,778.90 | \$160,000 |
| | 2017 | 8 | 17.8 | 142 Ton | \$947.77 | \$16,909.03 | \$135,000 |
| Pumpkins | 2018 | 128 | 9.5 | 1,213 Ton | \$665.29 | \$6,323.46 | \$807,000 |
| | 2017 | 55 | 9.5 | 520 Ton | \$386.43 | \$3,671.90 | \$201,000 |
| Radish | 2018 | 22 | 7.0 | 151 Ton | \$1,003.32 | \$7,023.26 | \$151,000 |
| | 2017 | 21 | 12.5 | 259 Ton | \$1,169.88 | \$14,602.41 | \$303,000 |
| Squash | 2018 | 59 | 11.8 | 689 Ton | \$527.93 | \$6,206.31 | \$364,000 |
| | 2017 | 65 | 8.2 | 532 Ton | \$1,068.17 | \$8,764.08 | \$568,000 |
| Tomatoes | 2018 | 22 | 18.0 | 389 Ton | \$645.58 | \$11,620.37 | \$251,000 |
| | 2017 | 22 | 18.7 | 411 Ton | \$642.79 | \$12,020.82 | \$264,000 |
| Watermelon | 2018 | 57 | 24.0 | 1,356 Ton | \$364.29 | \$8,743.01 | \$494,000 |
| | 2017 | 36 | 26.9 | 977 Ton | \$349.94 | \$9,408.53 | \$342,000 |
| Miscellaneous Vegetables* | 2018 | 346 | 38.6 | 13,339 Ton | \$2,236.71 | \$86,297.33 | \$29,836,000 |
| | 2017 | 144 | 15.0 | 2,164 Ton | \$6,548.28 | \$98,406.77 | \$14,169,000 |
| TOTAL | 2018 | 2,866 | | | | | \$43,309,000 |
| VEGETABLE CROPS | 2017 | 1,934 | | | | | \$31,344,000 |

*Miscellaneous Vegetables 2018: Artichoke; Asparagus; Beets; Broccoli; Cabbage; Cactus; Cauliflower; Celery; Chard; Collards; Cucumbers; Eggplant; Garlic; Kale; Kohlrabi; Leeks; Lettuce (Bitter & Iceberg); Melons (Cantaloupe & Honeydew); Mushrooms; Mustard Greens; Okra; Onions (Green); Peas (Snap & Succulent "Beans"); Peppers (Chili); Potatoes; Spinach; Sprouts; Sugar Beet; Sugar Cane; Sweet Potatoes; Tomatillos; Turnips; Watercress; Yams; Zucchini

*Miscellaneous Vegetables 2017: Alfalfa Greens; Artichoke; Asparagus; Beets; Broccoli; Broccolini; Brussel Sprouts; Cabbage; Cactus; Cauliflower; Celery; Chard; Collards; Cucumbers; Eggplant; Garlic; Jicama; Kale; Kohlrabi; Lettuce (Bitter, Green Leaf, Iceberg, Red Leaf & Romaine); Melons (Ambrosia, Cantaloupe, Crenshaw, Honeydew, Ichiba Kouji); Microgreens; Mushrooms; Mustard Greens; Okra; Onions (Green); Parsnips; Peas (Snap); Peppers (Chili); Potatoes; Quelite; Rhubarb; Rhutabaga; Spinach; Squash Blossoms; Sprouts; Sweet Potatoes; Tomatillos; Tomatoes (Cherry); Turnips; Zucchini



Value of Production By Area



CENTRAL = Fontana, Rialto, Bloomington, Colton, Grand Terrace, Devore, Cajon Valley and parts of Rancho Cucamonga and Ontario between Interstate 215 and Interstate 15.

EAST END = San Bernardino, Highland, Loma Linda, Redlands, Mentone, Yucaipa and all other Valley areas east of Interstate 215, incl. all of the San Bernardino Mountains east of Interstate 15.

NORTH DESERT = Barstow, Newberry Springs, Cadiz, Sandy Valley, Needles and all areas east along Highway 40 and National Trails Highway.

SOUTH DESERT = Victorville, Apple Valley, Hesperia, Wrightwood, Phelan, Adelanto, Oro Grande, Helendale, Lucerne Valley, Yucca Valley, Morongo Valley, 29 Palms and surrounding areas.

WEST END NORTH = Upland, Montclair and most of Rancho Cucamonga and Ontario, incl. all areas north of Mission Blvd., and west of Interstate 15.

WEST END SOUTH = Chino, Chino Hills and part of Ontario, incl. all areas south of Mission Blvd., and west of Interstate 15.



REGIONAL COMPARISONS

| | FRUIT & NUTS | | VEGETABLES | | FIELD CROPS | |
|----------------|--------------|----------------------|--------------|----------------------|------------------|----------------------|
| | ACRES | VALUE | ACRES | VALUE | ACRES | VALUE |
| CENTRAL | 20 | \$ 103,000 | .003 | \$ 1,000 | - | \$ - |
| EAST END | 2,486 | \$ 13,359,000 | 596 | \$ 5,183,000 | 257 | \$ 314,000 |
| NORTH DESERT | 1,026 | \$ 4,496,000 | 112 | \$ 1,955,000 | 998,196 | \$ 11,792,000 |
| SOUTH DESERT | 217 | \$ 1,364,000 | 2 | \$ 50,000 | 368,571 | \$ 2,945,000 |
| WEST END NORTH | 80 | \$ 347,000 | - | \$ - | 14 | \$ 8,000 |
| WEST END SOUTH | 302 | \$ 3,494,000 | 2,158 | \$ 36,115,000 | 7,125 | \$ 8,313,000 |
| TOTAL | 4,131 | \$ 23,163,000 | 2,868 | \$ 43,304,000 | 1,374,162 | \$ 23,372,000 |

| | NURSERY PRODUCTS | | LIVESTOCK & POULTRY | TOTAL VALUE | |
|----------------|------------------|----------------------|-----------------------|------------------|-----------------------|
| | ACRES | VALUE | VALUE | ACRES | VALUE |
| CENTRAL | 82 | \$ 4,220,000 | \$ 18,217,000 | 102 | \$ 22,541,000 |
| EAST END | 190 | \$ 6,849,000 | \$ 7,817,000 | 3,529 | \$ 33,522,000 |
| NORTH DESERT | 326 | \$ 5,852,000 | \$ 8,295,000 | 999,660 | \$ 32,390,000 |
| SOUTH DESERT | 710 | \$ 35,590,000 | \$ 6,342,000 | 369,500 | \$ 46,291,000 |
| WEST END NORTH | 36 | \$ 4,837,000 | \$ 76,000 | 130 | \$ 5,268,000 |
| WEST END SOUTH | 594 | \$ 27,502,000 | \$ 277,957,000 | 10,178 | \$ 353,381,000 |
| TOTAL | 1,937 | \$ 84,850,000 | \$ 318,704,000 | 1,383,099 | \$ 493,393,000 |



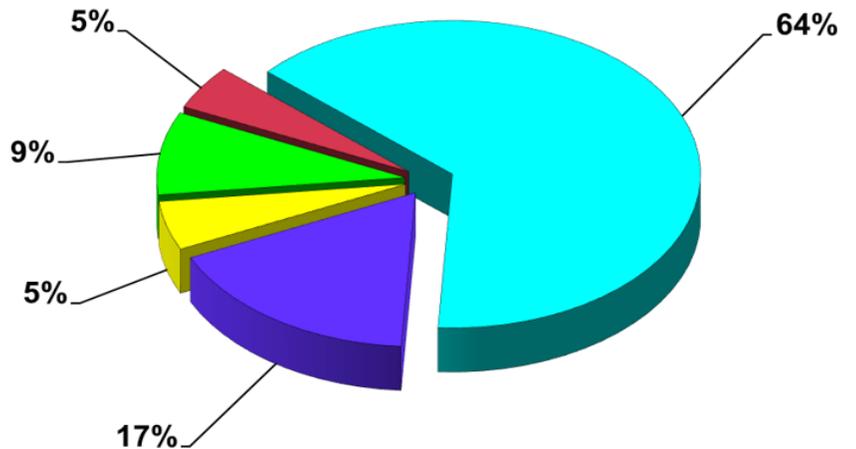
SUMMARY COMPARISONS

| Commodity Group | 2018 Acreage | 2018 \$ Value | 2017 Acreage | 2017 \$ Value |
|---------------------|------------------|----------------------|------------------|----------------------|
| Field Crops | 1,375,603 | \$ 25,451,000 | 1,379,467 | \$ 23,236,000 |
| Vegetable Crops | 2,868 | \$ 43,304,000 | 1,992 | \$ 32,158,000 |
| Fruit & Nut Crops | 4,121 | \$ 23,113,000 | 4,746 | \$ 20,971,000 |
| Livestock & Poultry | --- | \$318,704,000 | --- | \$ 332,013,000 |
| Nursery Products | 1,937 | \$ 84,850,000 | 1,130 | \$ 48,073,000 |
| TOTAL | 1,429,360 | \$464,728,000 | 1,387,335 | \$456,451,000 |



% Of Production By Commodity Type

- Field Crops
- Vegetable Crops
- Fruit & Nut Crops
- Livestock & Poultry
- Nursery Products



Exotic Pests Intercepted in 2018

| Common Name/Type | Scientific Name | Rating | Origin State / Country | # intercepted |
|---------------------------|-------------------------------------|--------|------------------------|---------------|
| Black House Ant | <i>Ochetellus glaber</i> | A | HI | 1 |
| Black Thread Scale | <i>Ischnaspis longirostris</i> | A | HI | 1 |
| Diaspidid Scale | <i>Fiorinia externa</i> | A | NC | 5 |
| Electric Ant | <i>Wasmannia auropunctata</i> | A | HI | 1 |
| Emerald Ash Borer | <i>Agrilus planipennis</i> | A | KY | 1 |
| Oriental Scale | <i>Aonidiella orientalis</i> | A | SC | 1 |
| Lesser Snow Scale | <i>Pinnaspis strachani</i> | A | HI | 1 |
| Tropical Palm Scale | <i>Hemiberlesia palmae</i> | A | Honduras | 1 |
| Yellow-shelled semi-slug | <i>Parmarion martensi</i> | A | HI | 2 |
| Ginger Maggot | <i>Eumerus figurans</i> | B | HI | 1 |
| Hemlock Scale | <i>Hemiberlesia ithacae</i> | B | ME | 1 |
| Pyriform Scale | <i>Protopulvinaria pyriformis</i> | B | SC | 2 |
| Unilobed Scale | <i>Pinnaspis uniloba</i> | B | HI | 1 |
| Cryptomeria armored scale | <i>Aspidiotus cryptomeriae</i> | Q | NC | 3 |
| Big-headed Ant | <i>Pheidole sp.</i> | Q | HI | 4 |
| Giant Milkweed plant | <i>Calotropis sp.</i> | Q | NC | 1 |
| Plant Pathogen | <i>Phytophthora/tropicalis</i> | Q | OR | 2 |
| Trilobe Scale | <i>Pseudaonidia trilobitiformis</i> | Q | HI | 1 |

| Other Pest Finds | Scientific Name | Rating | Inspection Location | # found |
|---|-------------------------------------|--------|---------------------|---------|
| Bougainvillea Mealybug | <i>Phenacoccus peruvianus</i> | A | Local Nurseries | 16 |
| Green Shield Scale | <i>Pulvinaria psidii</i> | B | Local Nurseries | 2 |
| Goldspotted Oak Borer | <i>Agrilus/coxalis auroguttatus</i> | Q | Local Mountains | 1 |
| Shield-Flower plant (first time found in the County) | <i>Dorstenia sp.</i> | Q | Local Nurseries | 1 |

The **A** rated Japanese Beetle (*Popillia japonica*) was intercepted 40 times at the Ontario Intl Airport on flights originating in: Illinois, Kentucky, Maryland, New Jersey, North Carolina, Pennsylvania, Texas

Pest ratings are established by the California Department of Food and Agriculture and are defined as follows:

- "A"** - An organism of known economic importance subject to state (or commissioner when acting as a state agent) enforced action involving: eradication, quarantine, containment, rejection, or other holding action.
- "B"** - An organism of known economic importance subject to: eradication, containment, control or other holding action at the discretion of the individual county agricultural commissioner; or, an organism of known economic importance subject to state endorsed holding action and eradication only when found in a nursery.
- "Q"** - An organism or disorder requiring temporary "A" action pending determination of a permanent rating. The organism is suspected to be of economic importance but its status is uncertain because of incomplete identification or inadequate information.

Department of Agriculture / Weights & Measures Personnel

Agricultural Commissioner / Sealer of Weights & Measures

Roberta Willhite

Assistant Agricultural Commissioner / Sealer

Allen Lampman

Deputy Agricultural Commissioner / Sealers

Sandy Cleland Renee Reid

Supervising Agricultural / Standards Officers

Denise Crowley Brady Gergovich Emilio Lopez
Jessica Naquin Paul Sharpe

Agricultural / Standards Officers

| | | | |
|------------------------|-----------------|-----------------|---------------|
| Ahmed Abdel-Rasoul | Tek Beyene | Russell Bice | Brad Bush |
| Christian Calvillo Jr. | Alexis Camberos | Javier Chavolla | Cordell Clark |
| Hamp Connors | Zia Fazel | Ryon Gutierrez | Conner Haney |
| Bill Herr | Arnold Johnson | George Kolbe | Charles Kregl |
| Shannon Lehrter | Joseph Lundeen | Larry Montoya | Julian Potier |
| Jeanne Sablan | Satinder Sandhu | Sean Tracy | Mark Tully |
| Keri Vigil | Maria Zarate | | |

Agricultural Pest Exclusion Officer / Canine Handler

Kristina Cummings

Canine Handler Assistant

Kenny Nguyen

Agricultural Field Aides I & II

| | | | | |
|----------------|---------------|----------------|--------------------------|----------------|
| Bob Abbey | Allen Berg | Wendy Eastwood | Elizabet Jimenez | Sasha Kim |
| Cindy Lopez | Sherry Miller | Josh Prosser | Greg Rodriguez | John Sarmiento |
| Joseph Stewart | | | Kelsey Oefinger (AFA II) | |

Office Support Division

Angie Ekema, Executive Secretary
Tonná Cole, Executive Secretary
Emily Campbell, Staff Analyst II
Katrina “Kat” Menell, Office Assistant III
Maria Ramirez, Office Assistant III
Dellana Smith, Office Assistant III
Kathy White, Office Assistant III

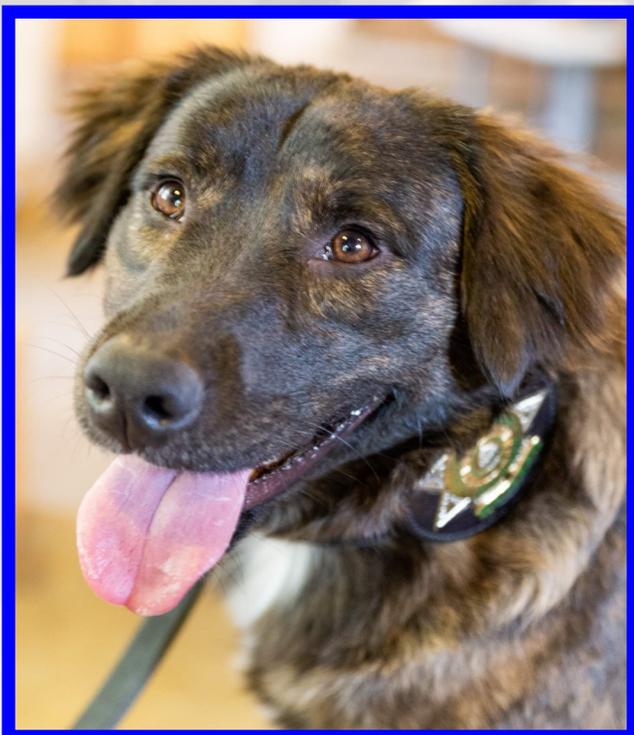
Agricultural / Standards Technicians

Dan Bickel David Mahosky
Daniel Rivera

Contract Special Projects Coordinator/Trainer

Jim Chambers

Canine Pest Exclusion Specialist
"BISHOP"



Canine Pest Exclusion Specialist
"MACEY"