



# AGRICULTURAL PRODUCTION REPORT

SANTA BARBARA COUNTY | *Agriculture through time...*

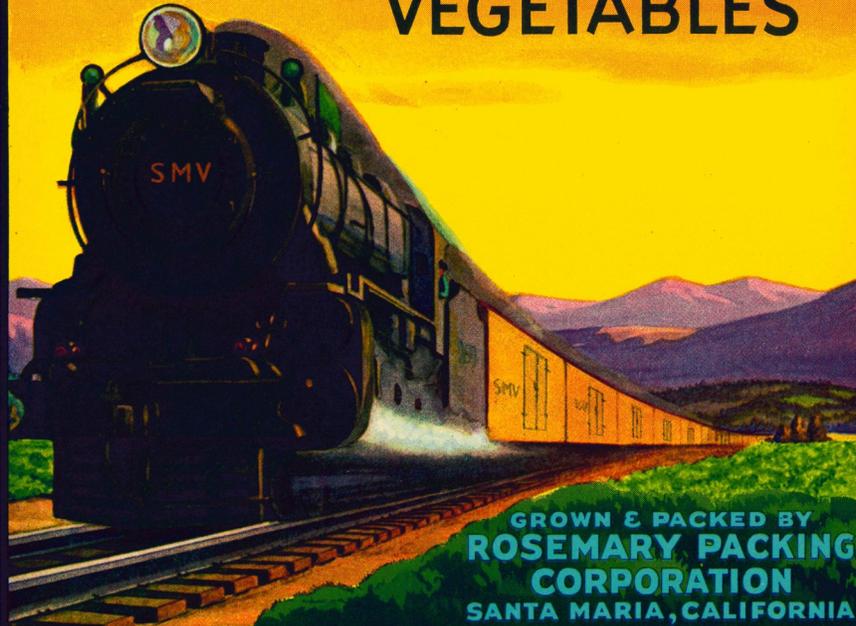
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# SANTA MARIA

BRAND

## CALIFORNIA VEGETABLES



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**Karen Ross, Secretary**  
*California Department of Food & Agriculture and*

**The Honorable Board of Supervisors, County of Santa Barbara**  
**Joan Hartmann, Chair**  
**Das Williams**  
**Janet Wolf**  
**Peter Adam**  
**Steve Lavagnino**



**Mona Miyasato, County Executive Officer**

In accordance with the provisions of Sections 2272 and 2279 of the California Food and Agricultural Code, I am pleased to submit the 2016 Santa Barbara County Crop Report. This report summarizes the acreage, production, and gross value of Santa Barbara County's agricultural commodities.

Santa Barbara County agricultural commodities grossed **\$1,426,664,069** for 2016, which is a decrease of 3.7% or \$52,428,493 from the previous year. Poor water quality and labor issues continue to impact most, if not all, commodity groups. It is always important to note that the figures provided in the annual crop report are gross values and do not represent or reflect net profit or loss experienced by individual growers or by the industry as a whole. Growers do not have control over most input costs, such as fuel, fertilizers, and packaging, nor can they significantly affect market prices. Agriculture is the number one contributor to the county's economy and through the multiplier effect, contributes a total of \$2.8 billion to the local economy and provides 25,370 jobs.

#### **SIGNIFICANT EVENTS OF THE 2016 CROP YEAR**

- Strawberries continue to be the number one commodity with an overall gross value of \$413,999,130. This represents a reduction of approximately \$11 million from 2015. This is the third year in a row that strawberries experienced a reduction in gross value. This is primarily due to a drop in unit price even though strawberry acreage and production volume were at record levels in 2016.
- Raspberry crops had a tough year in 2016. Total gross production value in 2016 was approximately \$16 million, which is an alarming \$44 million reduction compared to 2015. Harvested acres dropped dramatically as well as overall production along with a drop in unit price.
- Blackberries had a very good year with a gross production value over \$23 million, which is an increase of \$9,577,429 from 2015. Santa Barbara County's berries are shipped to many international markets and domestically throughout the country.
- Avocado production rebounded in 2016 compared to 2015. Overall gross production value was approximately \$63 million, which is an increase of approximately \$16 million. This was mostly due to a significant increase of production per acre and price even though growers were forced to reduce the number of acres in production by stumping trees due to many years of drought. Stumping forces the trees into a dormant state requiring less water.
- Wine grape growers had an outstanding year in 2016 and surpassed broccoli as the number two most valuable commodity in the county. Gross production value increased by approximately \$45 million compared to 2015. This was due to a dramatic increase in production and price per ton. Famous for ripe, yet elegant, Chardonnay and Pinot Noir, the County's wine industry is also gaining a reputation for Rhone varietals including Syrah and Viognier. Santa Barbara wine grapes now command among the highest prices anywhere in the state.
- Santa Barbara County is an oasis of rolling hills, ancient oak trees and cattle ranches. Cattle prices continued to improve in 2016 with an increase of \$847,494, which helped to offset the impacts of a historical drought.
- Broccoli gross production value decreased sharply by approximately \$15 million compared to 2015. Even though the unit price value was higher than in 2015, harvested acres and production declined. Regardless of the reduction of value in 2016, the quality of broccoli grown in Santa Barbara County maintains a reputation of high quality and nutritional value.
- The cut flower industry experienced a drastic reduction in overall gross production value in 2016 of approximately \$30 million. Many factors attribute to the reduction in value of cut flowers in the county however, cut flowers remain as the fifth overall most valued commodity at approximately \$75 million. Santa Barbara County cut flowers are shipped throughout the world and bring beauty into people's lives and provide many with the ability to express their feelings of love, joy, sympathy, friendship and celebration.

I wish to express my sincere thanks to our farmers and ranchers, industry representatives and the members of my staff who assisted in the gathering of data for this report. Without their assistance, this report would not be possible.

Special recognition goes to Ian Swisher, Claudia Sancho, Chris Tyler, Ruth Jensen, Lottie Martin and Alicia Morales for their contributions and Gus Maio for the crop report graphics and cover.

Respectfully submitted,



Cathleen M. Fisher  
Agricultural Commissioner/Director  
Weights & Measures

# The Top Commodities



|                     |               |                                |              |
|---------------------|---------------|--------------------------------|--------------|
| 1. Strawberry       | \$413,999,130 | 12. Blackberry                 | \$23,277,600 |
| 2. Wine Grapes      | \$151,629,764 | 13. Raspberry                  | \$16,046,416 |
| 3. Broccoli         | \$148,728,847 | 14. Cabbage                    | \$13,110,135 |
| 4. Nursery Products | \$78,911,967  | 15. Lemons                     | \$12,793,189 |
| 5. Cut Flower       | \$74,938,365  | 16. Spinach                    | \$11,625,814 |
| 6. Head Lettuce     | \$71,235,801  | 17. Blueberry                  | \$7,850,524  |
| 7. Cauliflower      | \$70,477,347  | 18. Flower & Native Grass Seed | \$4,826,749  |
| 8. Avocado          | \$63,482,607  | 19. Bell Pepper                | \$4,144,219  |
| 9. Celery           | \$40,922,589  | 20. Summer Squash              | \$3,205,066  |
| 10. Leaf Lettuce    | \$33,966,429  | 21. Vegetable Seed             | \$2,742,424  |
| 11. Cattle          | \$30,017,263  | 22. Dry Beans                  | \$1,671,140  |
|                     |               | 23. Hay and Grain              | \$1,571,641  |

# Vegetable Crops

| Crop                      | Year | Harvested Acreage | Yield Per Acre | Total Production | Unit     | Price Per Unit | Total Value   |
|---------------------------|------|-------------------|----------------|------------------|----------|----------------|---------------|
| Bell Pepper               | 2016 | 495               | 918            | 454,410          | 25lb CTN | \$9.12         | \$4,144,219   |
|                           | 2015 | 472               | 1,009          | 476,248          | 25lb CTN | \$9.40         | \$4,476,731   |
| Broccoli                  | 2016 | 24,969            | 529            | 13,208,601       | 22lb CTN | \$11.26        | \$148,728,847 |
|                           | 2015 | 26,276            | 692            | 18,182,992       | 22lb CTN | \$9.01         | \$163,828,758 |
| Cabbage                   | 2016 | 1,319             | 1005           | 1,325,595        | 50lb CTN | \$9.89         | \$13,110,135  |
|                           | 2015 | 1,257             | 1002           | 1,259,514        | 50lb CTN | \$8.59         | \$10,819,225  |
| Cauliflower               | 2016 | 8,285             | 801            | 6,636,285        | 25lb CTN | \$10.62        | \$70,477,347  |
|                           | 2015 | 8,630             | 738            | 6,368,940        | 25lb CTN | \$10.44        | \$66,491,734  |
| Celery                    | 2016 | 4,009             | 992            | 3,976,928        | 60lb CTN | \$10.29        | \$40,922,589  |
|                           | 2015 | 3,720             | 1,055          | 3,924,600        | 60lb CTN | \$11.07        | \$43,445,322  |
| Lettuce, Head             | 2016 | 9,542             | 675            | 6,440,850        | 50lb CTN | \$11.06        | \$71,235,801  |
|                           | 2015 | 9,837             | 751.3          | 7,390,538        | 50lb CTN | \$10.80        | \$79,817,810  |
| Lettuce, Leaf             | 2016 | 4,345             | 703            | 3,054,535        | 30lb CTN | \$11.12        | \$33,966,429  |
|                           | 2015 | 4,178             | 748            | 3,125,144        | 30lb CTN | \$11.48        | \$35,876,653  |
| Spinach                   | 2016 | 1,489             | 780            | 1,161,420        | 20lb CTN | \$10.01        | \$11,625,814  |
|                           | 2015 | 1,460             | 796.4          | 1,162,744        | 20lb CTN | \$9.91         | \$11,522,793  |
| Squash, Summer            | 2016 | 604               | 720            | 434,880          | 26lb CTN | \$7.37         | \$3,205,066   |
|                           | 2015 | 623               | 617            | 384,391          | 26lb CTN | \$8.27         | \$3,178,914   |
| Miscellaneous Vegetables* | 2016 | 12,252            |                |                  |          |                | \$117,980,786 |
|                           | 2015 | 12,012            |                |                  |          |                | \$120,388,557 |
| <b>Total</b>              | 2016 | 67,309            |                |                  |          |                | \$515,397,033 |
|                           | 2015 | 68,465            |                |                  |          |                | \$539,846,497 |

\* Miscellaneous vegetables includes: artichoke, arugula, asparagus, baby vegetables, basil, beet, Brussels sprout, carrot, celery root, chard, chervil, Chinese cabbage, cilantro, sweet corn, collard greens, cress, cucumber, dandelion, eggplant, endive, escarole, fennel, green beans, herbs, kale, kohlrabi, leeks, maize, mustard greens, dry onion, green onion, parsley, peas (edible pod), pepper, potato, pumpkin, radicchio, radish, winter squash, tomatillo, and tomato.



# Fruit and Nut Crops

| Item                            | Year | Harvested Acreage | Yield Per Acre | Total Production | Unit | Price Per Unit | Total Value   |
|---------------------------------|------|-------------------|----------------|------------------|------|----------------|---------------|
| Avocados                        | 2016 | 4,981             | 4.9            | 24,625           | TON  | \$2,601.00     | \$63,482,607  |
|                                 | 2015 | 6,513             | 3.6            | 23,447           | TON  | \$2,000.31     | \$46,901,268  |
| Blackberries                    | 2016 | 610               | 3.6            | 2,196            | TON  | \$10,600.00    | \$23,277,600  |
|                                 | 2015 | 979               | 2.34           | 2,291            | TON  | \$5,980.00     | \$13,700,180  |
| Blueberries                     | 2016 | 386               | 1.91           | 737              | TON  | \$10,652.00    | \$7,850,524   |
| Lemons                          | 2016 | 1,300             | 14.7           | 19,110           | TON  | \$669.45       | \$12,793,189  |
|                                 | 2015 | 1,311             | 16.8           | 22,025           | TON  | \$599.50       | \$13,203,988  |
| Raspberries                     | 2016 | 820               | 6.1            | 5,002            | TON  | \$3,208.00     | \$16,046,416  |
|                                 | 2015 | 2,144             | 5.78           | 12,392           | TON  | \$4,880.59     | \$60,480,271  |
| Strawberries                    | 2016 | 8,055             | 5109           | 41,152,995       | 12#  | \$10.06        | \$413,999,130 |
|                                 | 2015 | 7,895             | 5146           | 40,627,670       | 12#  | \$10.79        | \$438,327,559 |
| Miscellaneous Fruits and Nuts * | 2016 | 2,284             |                |                  |      |                | \$9,278,155   |
|                                 | 2015 | 2,005             |                |                  |      |                | \$9,489,105   |
| <b>Total</b>                    | 2016 | 18,436            |                |                  |      |                | \$546,727,621 |
|                                 | 2015 | 20,847            |                |                  |      |                | \$582,102,370 |

\* Miscellaneous fruit and nuts includes: apple, apricot, cherimoya, coffee, goose berry, guava, kiwi, lime, melons, olive, orange, passionfruit, persimmon, pistachio, plum, pluot, sapote, tangerine, walnut, and watermelon.



# Wine Grapes

| Variety                   | Harvested Acreage | Yield Per Acre | Total Production | Price Per Ton | Total Value  |
|---------------------------|-------------------|----------------|------------------|---------------|--------------|
| <b>Chardonnay</b>         | 7,720             | 4.76           | 36,747           | \$1,456       | \$53,503,632 |
| <b>Pinot Noir</b>         | 5,571             | 2.91           | 16,212           | \$2,669       | \$43,269,828 |
| <b>Syrah</b>              | 1,930             | 2.94           | 5,674            | \$2,542       | \$14,423,308 |
| <b>Grenache</b>           | 495               | 4.08           | 2,020            | \$2,450       | \$4,949,000  |
| <b>Sauvignon Blanc</b>    | 830               | 4.39           | 3,644            | \$1,350       | \$4,919,400  |
| <b>Cabernet Sauvignon</b> | 448               | 2.72           | 1,219            | \$2,470       | \$3,010,930  |
| <b>Cabernet Franc</b>     | 209               | 3.51           | 734              | \$2,845       | \$2,088,230  |
| <b>Pinot Grigio/Gris</b>  | 303               | 3.25           | 985              | \$2,045       | \$2,014,325  |
| <b>Viognier</b>           | 281               | 3.38           | 950              | \$1,845       | \$1,752,750  |
| <b>Merlot</b>             | 310               | 3.56           | 1,104            | \$1,512       | \$1,669,248  |
| <b>Sangiovese</b>         | 124               | 3.35           | 415              | \$2,147       | \$891,005    |
| <b>Riesling</b>           | 103               | 3.55           | 366              | \$1,631       | \$596,946    |
| <b>Misc Red</b>           | 1,401             | 3.97           | 5,562            | \$1,624       | \$9,032,688  |
| <b>Misc White</b>         | 1,624             | 4.2            | 6,821            | \$1,394       | \$9,508,474  |

| Year        | Harvested Acreage | Yield Per Acre | Total Production | Price Per Ton  | Total Value          |
|-------------|-------------------|----------------|------------------|----------------|----------------------|
| <b>2016</b> | <b>21,349</b>     | <b>3.61</b>    | <b>82,453</b>    | <b>\$1,999</b> | <b>\$151,629,764</b> |
| 2015        | 21,295            | 2.91           | 66,363           | \$1,839        | \$106,198,172        |



# Field and Seed Crops

| Crop                       | Year | Acreage           |
|----------------------------|------|-------------------|
| Rangeland                  | 2016 | 586,047           |
|                            | 2015 | 582,523           |
| Pasture                    | 2016 | 3769              |
|                            | 2015 | 3846              |
| Beans, Dry Edible          | 2016 | 1,877             |
|                            | 2015 | 2,597             |
| Hay & Grain                | 2016 | 3,284             |
|                            | 2015 | 3,494             |
| Miscellaneous*             | 2016 | 2325              |
|                            | 2015 | 2870              |
| <b>Total</b>               | 2016 | 597,302           |
|                            | 2015 | 595,330           |
| Seed Crops                 | Year | Harvested Acreage |
| Bean Seed                  | 2016 | 378               |
|                            | 2015 | 538               |
| Flower & Native Grass Seed | 2016 | 624               |
|                            | 2015 | 604               |



# Cut Flower and Cut Foliage

| Cut Flowers:              | Year | Greenhouse Sq. Ft. | Field Acres | Total Value         |
|---------------------------|------|--------------------|-------------|---------------------|
| Chrysanthemum             | 2016 | 1,204,503          | 10          | \$8,416,456         |
|                           | 2015 | 1,525,196          | 4           | \$8,859,427         |
| Gerbera                   | 2016 | 2,588,340          | ---         | \$19,578,137        |
|                           | 2015 | 3,328,560          | ---         | \$27,968,768        |
| Lily                      | 2016 | 1,125,000          | ---         | \$9,148,995         |
|                           | 2015 | 2,230,906          | 8           | \$17,939,206        |
| Miscellaneous Cut Flowers | 2016 | 3,876,504          | 846         | \$37,794,777        |
|                           | 2015 | 5,665,465          | 925         | \$50,393,037        |
| <b>Total Cut Flowers</b>  | 2016 | <b>13,130,957</b>  | <b>856</b>  | <b>\$74,938,365</b> |
|                           | 2015 | 13,130,957         | 963         | \$105,160,438       |
| Cut Foliage               | Year | Greenhouse Sq. Ft. | Field Acres | Total Value         |
| Cut Foliage               | 2016 | 6,025              | 1           | \$102,421           |
|                           | 2015 | 8,050              | 1.25        | \$126,446           |

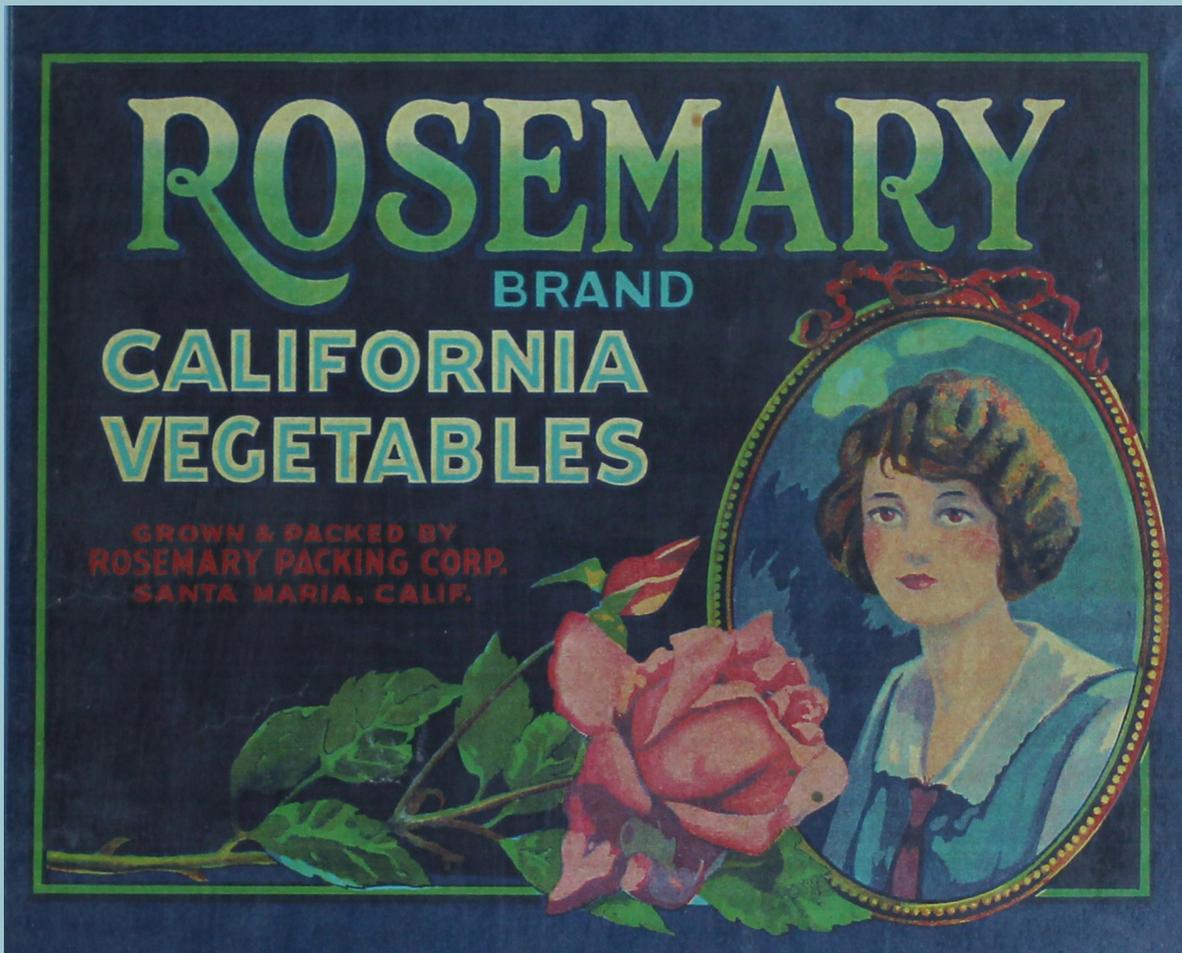
Miscellaneous cut flowers includes: alstroemeria, amaranthus, anemone, anthurium, aster, bells of Ireland, bird of paradise, bupleurum, calla lily, carnation, celosia, dahlia, delphinium, dianthus, freesia, gardenia, gladiolus, gypsophila, hyacinth, hydrangea, iris, kangaroo paw, larkspur, liatris, limonium, lisianthus, narcissus, orchid, ornithogalum, protea, Queen Anne's lace, ranunculus, rose, snapdragon, solidago, solidaster, statice, stephanotis, stock, sunflower, sweet pea, tuberose, tulip, and veronica.



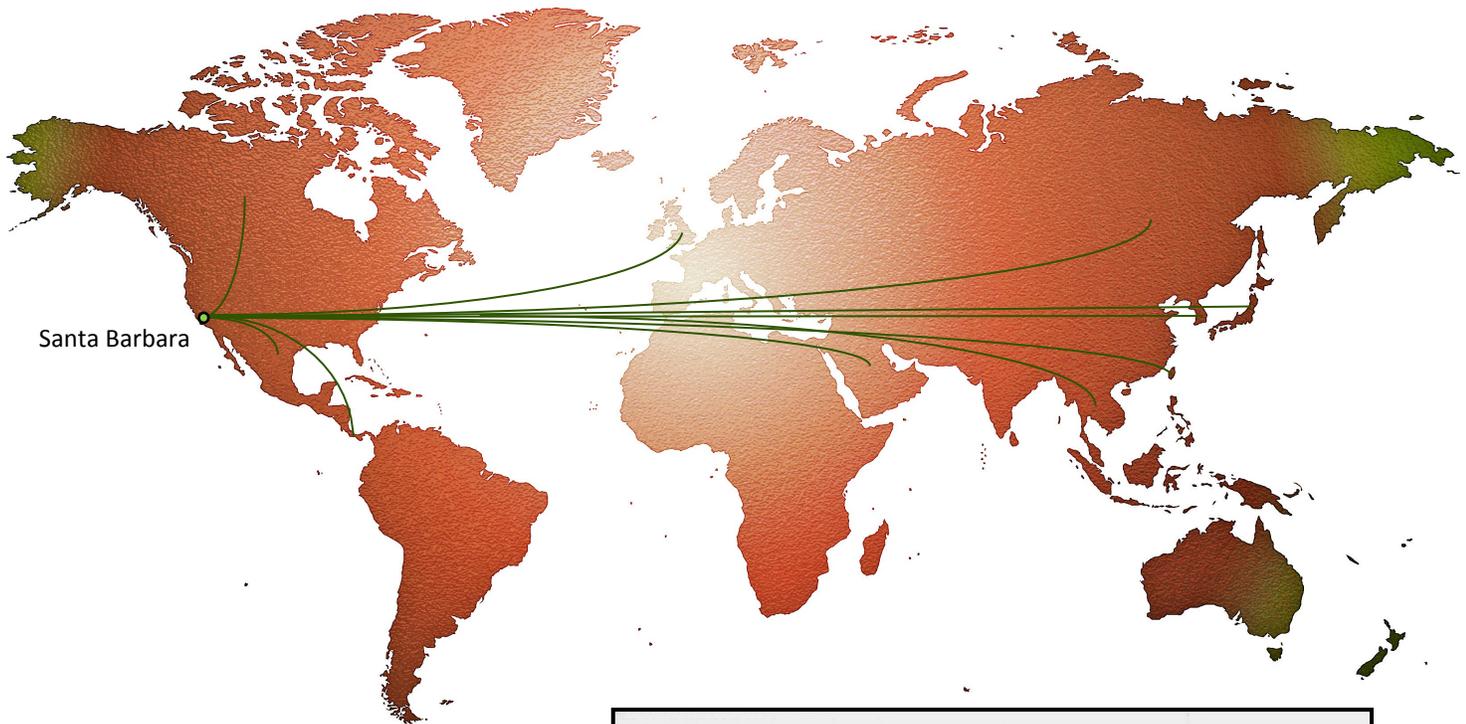
# Nursery Products

| Potted Plants:              | Year        | Greenhouse Sq. Ft. | Field Acres   | Total Value         |
|-----------------------------|-------------|--------------------|---------------|---------------------|
| Foliage                     | 2016        | 327,150            | ---           | \$628,452           |
|                             | 2015        | 424,920            | ---           | \$826,911           |
| Orchid                      | 2016        | 2,134,440          | 12            | \$14,384,180        |
|                             | 2015        | 2,688,750          | 18            | \$17,980,225        |
| Poinsettia                  | 2016        | 165,240            | ---           | \$621,918           |
|                             | 2015        | 202,740            | ---           | \$767,802           |
| Miscellaneous Potted Plants | 2016        | 1,248,744          | 16            | \$13,813,765        |
|                             | 2015        | 1,498,604          | 25            | \$17,267,207        |
| Other Nursery Products *    | 2015        | 2,943,752          | 355           | \$49,463,652        |
|                             | 2015        | 3,034,796          | 362           | \$48,973,913        |
| <b>Total Potted Plants</b>  | <b>2016</b> | <b>6,819,326</b>   | <b>383.00</b> | <b>\$78,911,967</b> |
|                             | 2015        | 7,849,810          | 405.00        | \$85,816,058        |

\* Other nursery products includes: herbaceous perennials, ground covers, turf, bulbs, bedding plants, vegetable transplants, fruit trees and vines, palms, and woody ornamentals



# Export Commodities



*Strawberries and dry ice being loaded into a rail car.*



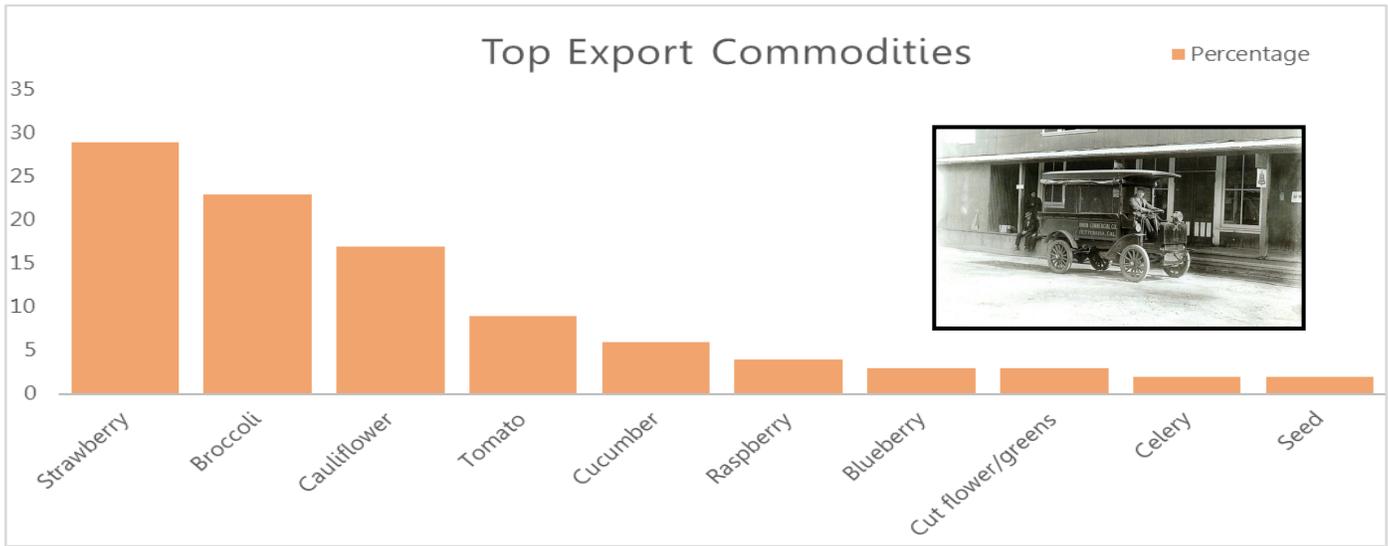
**Sugar Beets delivered by mule team**



*First time Santa Maria Valley strawberries were shipped by air freight.*

| Top 10 Export Countries | Number of Shipments |
|-------------------------|---------------------|
| Canada                  | 3955                |
| Japan                   | 908                 |
| Mexico                  | 312                 |
| Taiwan                  | 117                 |
| United Kingdom          | 61                  |
| Saudi Arabia            | 55                  |
| China                   | 52                  |
| Thailand                | 52                  |
| Korea, Republic of      | 43                  |
| Costa Rica              | 41                  |





*Santa Maria Valley Railroad moving sugar beets to the Union Sugar plant.*

In 2016 Santa Barbara County exported to 40 countries

Countries exported to (in decreasing order): Canada, Japan, Mexico, Taiwan, United Kingdom, Saudi Arabia, China, Thailand, Republic of Korea, Costa Rica, Chile, Philippines, United Arab Emirates, Guatemala, India, Netherlands, French Polynesia, France, Hong Kong, Australia, Argentina, New Zealand, South Africa, Brazil, Kuwait, Antigua, Israel, Panama, Peru, Bermuda, Indonesia, Uruguay, Viet Nam, Germany, Honduras, Kenya, Lebanon, Qatar, Singapore, and Spain.



*Train loaded with sugar beets headed up the coast.*



# Livestock and Apiary

| Item                  | Year            | Number of Head | Total Value         |
|-----------------------|-----------------|----------------|---------------------|
|                       | <b>Breeding</b> | 18067          | \$17,739,806        |
|                       | <b>Market</b>   | 12045          | \$12,277,457        |
| <b>Cattle Total</b>   | <b>2016</b>     | <b>30,112</b>  | <b>\$30,017,263</b> |
|                       | 2015            | 23,435         | \$29,169,769        |
| <b>Miscellaneous*</b> | <b>2016</b>     |                | <b>\$1,787,152</b>  |
|                       | 2015            |                | \$1,861,617         |
| <b>Total</b>          | <b>2016</b>     |                | <b>\$31,804,415</b> |
|                       | 2015            |                | \$31,031,386        |

\*Miscellaneous includes: aquaculture, breeding stock, chickens, goats, sheep, and swine.

| Dairy and Apiary      | Year        | Total Value        |
|-----------------------|-------------|--------------------|
| <b>Miscellaneous*</b> | <b>2016</b> | <b>\$7,665,047</b> |
|                       | 2015        | \$8,423,129        |

\*Miscellaneous includes: apiary products (honey, beeswax, pollen, and pollination), milk, and milk products.



# Five Year Comparison

|                                     | 2012            | 2013            | 2014            | 2015            | 2016                   |
|-------------------------------------|-----------------|-----------------|-----------------|-----------------|------------------------|
| <b>Vegetable Crops</b>              | \$437,426,912   | \$471,590,681   | \$493,635,729   | \$539,846,497   | <b>\$515,397,033</b>   |
| <b>Fruit &amp; Nut Crops</b>        | \$515,353,303   | \$545,939,874   | \$595,346,546   | \$582,102,370   | <b>\$546,727,621</b>   |
| <b>Wine Grapes</b>                  | \$91,107,064    | \$163,362,417   | \$155,255,791   | \$106,198,172   | <b>\$151,629,764</b>   |
| <b>Field &amp; Seed Crops</b>       | \$21,275,910    | \$20,764,227    | \$21,133,935    | \$20,388,067    | <b>\$19,487,436</b>    |
| <b>Cut Flower &amp; Cut Foliage</b> | \$105,433,124   | \$106,619,530   | \$105,093,374   | \$105,286,883   | <b>\$75,040,786</b>    |
| <b>Nursery Products</b>             | \$77,770,472    | \$84,832,238    | \$86,092,464    | \$85,816,058    | <b>\$78,911,967</b>    |
| <b>Livestock and Poultry</b>        | \$34,143,839    | \$34,904,230    | \$24,827,984    | \$31,031,386    | <b>\$31,804,415</b>    |
| <b>Dairy and Apiary Products</b>    | \$8,460,550     | \$8,638,221     | \$8,595,030     | \$8,423,129     | <b>\$7,665,047</b>     |
| <b>Total</b>                        | \$1,290,971,174 | \$1,436,651,418 | \$1,489,980,853 | \$1,479,092,562 | <b>\$1,426,664,069</b> |



## Exotic Weed/Pest Species Intercepted in 2016

| Pest (Common, Scientific)  | Rating | Number Rejected/<br>Destroyed |
|--|--------|-------------------------------|
| <b>Disease and Fungi</b>   |        |                               |
| <b>Palm Wilt</b> <i>Fusarium oxysporum f. sp. canariensis</i>                | A      | 2                             |
| <b>Anthraxnose Leaf Spot</b> <i>Colletotrichum boninense</i>                 | B      | 2                             |
| <b>Shot Hole and Necrotic Leaf Spots</b> <i>Pseudocercospora smilacicola</i> | Q      | 2                             |
| <b>Oak Root Fungus</b> <i>Armillaria mellea</i>                              | B      | 1                             |
| <i>Coleophoma/empetri</i>  | Q      | 1                             |
| <b>Leaf Spot and Stem Canker</b> <i>Neofusicoccum protearum</i>              | Q      | 2                             |
| <b>Downy mildew</b> <i>Peronospora mesembryanthemi</i>                       | Q      | 3                             |
| <i>Pseudocercospora/smilacicola</i>  | Q      | 1                             |
| <b>Capulin Cherry rust</b> <i>Tranzschelia mexicana</i>                      | B      | 1                             |
| <b>Weeds</b>   |        |                               |
| <b>Bladder-Flower</b> <i>Araujia sericifera</i>                              | B      | 2                             |
| <b>Geraldton Carnation Spurge</b> <i>Euphorbia terracina</i>                 | B      | 1                             |
| <b>Beetles and Ants</b>  |        |                               |
| <b>Leaf Beetle</b> <i>Chrysomelidae spp.</i>                                 | Q      | 1                             |
| <b>Ant</b> <i>Cardiocondyla/obscurior</i>                                    | Q      | 1                             |
| <b>Ant</b> <i>Solenopsis papuana</i>   | Q      | 1                             |
| <b>Ant</b> <i>Pheidole sp.</i>   | Q      | 2                             |
| <b>Crickets, Termites, and Thrips</b>  |        |                               |
| <b>Broad Winged Tree Cricket</b> <i>Oecanthus latipennis</i>                 | Q      | 1                             |
| <b>Isoptera</b> <i>Isoptera spp.</i>   | Q      | 1                             |
| <b>Thrips</b> <i>Thrips/ florum</i>  | A      | 1                             |
| <b>Thrips</b> <i>Frankliniella panamensis</i>                                | Q      | 1                             |
| <b>Thrips</b> Thripidae Spp.   | Q      | 1                             |
| <b>Fungus Gnat and Leaf Minors</b>   |        |                               |
| <b>Fungus Gnat</b> <i>Lyprauta/sp</i>  | Q      | 1                             |
| <b>Leaf Minor</b> <i>Agromyzidae spp.</i>                                    | Q      | 1                             |
| <b>Moths</b>   |        |                               |
| <b>Light Brown Apple Moth</b> <i>Epiphyas postvittana</i>                    | A      | 179                           |
| <b>Tortricidae</b> <i>Pseudargyrotoza/conwagana</i>                          | Q      | 1                             |
| <b>Gracillariidae,</b> <i>Mamara/smilaciella</i>                             | Q      | 1                             |
| <b>Sphingidae</b> <i>Sphecodina/abbottii</i>                                 | Q      | 1                             |
| <b>Pitcher Plant Looper</b> <i>Exyra Ridingsii</i>                           | Q      | 1                             |
| <b>Tortricidae</b> Tortricidae sp.   | Q      | 1                             |
| <b>Psyllids and Aphids</b>   |        |                               |
| <b>Psyllidae Sp.</b>   | B      | 1                             |
| <b>Aphid Sp.</b>   | Q      | 3                             |
| <b>Ficus Psyllid</b> <i>Trioza/brevigenae</i>                                | Q      | 3                             |
| <b>Aphid</b> <i>Cerataphis sp.</i>   | Q      | 1                             |
| <b>Asian Citrus Psyllid</b> <i>Diaphorina citri</i>                          | A      | 17                            |



| Pest (Common, Scientific)  | Rating | Number Rejected/Destroyed |
|--|--------|---------------------------|
| <b>Scale, Mealy Bugs, and Plant Lice</b>                         |        |                           |
| <b>Scale</b> <i>Hemiberlesia/ithacae</i>                         | B      | 2                         |
| <b>Mealybug</b> <i>Pseudococcidae spp</i>                        | Q      | 2                         |
| <b>Scale</b> <i>Diaspididae spp.</i>                             | Q      | 4                         |
| <b>Boxwood Scale</b> <i>Pinnaspis buxi</i>                       | A      | 3                         |
| <b>Mealybug</b> <i>Phenacoccus/peruvianus</i>                    | A      | 5                         |
| <b>Mealybug</b> <i>Paracoccus marginatus</i>                     | Q      | 1                         |
| <b>California Red Scale</b> <i>Aonidiella aurantii</i>           | B      | 2                         |
| <b>Purple Scale</b> <i>Lepidosaphes beckii</i>                   | B      | 2                         |
| <b>Chaff Scale</b> <i>Parlatoria pergandii</i>                   | B      | 1                         |
| <b>Lesser Snow Scale</b> <i>Pinnaspis strachani</i>              | A      | 2                         |
| <b>Glassy-Winged Sharpshooter</b> <i>Homalodisca vitripennis</i> | B      | 2                         |
| <b>Bamboo Mealybug</b> <i>Palmicultor lumpurensis</i>            | B      | 1                         |
| <b>Trilobe Scale</b> <i>Pseudaonidia trilobitiformis</i>         | A      | 2                         |
| <b>Plant Lice</b> <i>Triozidae spp.</i>                          | Q      | 1                         |
| <b>Herculeana Scale</b> <i>Clavaspis herculeana</i>              | A      | 1                         |
| <b>Angraecum Scale</b> <i>Conchaspis angraeci</i>                | Q      | 1                         |
| <b>Scale</b> <i>Coccidae spp.</i>                                | Q      | 3                         |
| <b>Redbanded whitefly</b> <i>Tetraleurodes sp.</i>               | Q      | 1                         |
| <b>Sansevieria Scale</b> <i>Parlatoria proteus</i>               | A      | 1                         |
| <b>MealyBug</b> <i>Nipaecoccus sp.</i>                           | Q      | 2                         |
| <b>Stellate Scale</b> <i>Ceroplastes stellifer</i>               | Q      | 1                         |
| <b>Scale</b> <i>Hemiberlesia/ithacae</i>                         | B      | 2                         |
| <b>Fig Wax Scale</b> <i>Ceroplastes rusci</i>                    | A      | 1                         |
| <b>Scale</b> <i>Pseudococcidae spp.</i>                          | Q      | 1                         |
| <b>Magnolia White scale</b> <i>Pseudaulacaspis cockerelli</i>    | A      | 1                         |
| <b>Coconut Scale</b> <i>Aspidiotus destructor</i>                | A      | 1                         |
| <b>Wax Scale</b> <i>Ceroplastes sp.</i>                          | Q      | 1                         |
| <b>Palm Whitefly</b> <i>Aleurocerus palmae</i>                   | Q      | 1                         |
| <b>Snails and Slugs</b>  |        |                           |
| <b>Semi-Slug</b> <i>Parmarion martinsi</i>                       | A      | 1                         |
| <b>Snail</b> <i>Helicarionidae Spp.</i>                          | Q      | 1                         |

Rating definitions:

"A" - An organism of known economic importance, subject to enforcement action involving eradication, quarantine regulation, containment, rejection, or other holding action.

"Q" - An organism or disorder requiring temporary "A" action pending determination of a permanent quarantine rating. The organism is suspected to be of economic importance, but its status is uncertain because of incomplete identification or inadequate information.

"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.

"W"- A species currently on the California Code of Regulations Section 4500 list of noxious weeds.



A box of unmarked Pitcher Plants found by Detector Dog Doomis, that contained Q – rated Pitcher Plant Looper



# Organic Farming

Consumer demand for organic products has increased over the past decade, resulting in an increase in the number of organic producers in Santa Barbara County. There are currently 159 growers registered organic in Santa Barbara County in 2016. Utilizing organic principles as required by the California Organic Products Act of 2003, these growers produce a wide variety of crops. Anyone interested in learning more about the Organic Program in California may do so by contacting their local County Agricultural Commissioner's office or visit: <http://cosb.countyofsb.org/agcomm/agcomm.aspx?id=11850>

## Top 10 Registered Organic Crops Grown in Santa Barbara County by Acreage

| 2016            |      | 2015                |      |
|-----------------|------|---------------------|------|
| 1. Strawberries | 1295 | 1. Strawberries     | 1647 |
| 2. Spinach      | 747  | 2. Carrots          | 1025 |
| 3. Cauliflower  | 673  | 3. Spinach          | 962  |
| 4. Broccoli     | 642  | 4. Leaf Lettuce     | 563  |
| 5. Avocados     | 581  | 5. Cauliflower      | 536  |
| 6. Celery       | 497  | 6. Broccoli         | 521  |
| 7. Blackberries | 469  | 7. Avocados         | 496  |
| 8. Leaf Lettuce | 466  | 8. Celery           | 414  |
| 9. Kale         | 431  | 9. Kale             | 411  |
| 10. Pistachios  | 412  | 10. Romaine Lettuce | 378  |

# Sustainable Agriculture



### Pest Detection

Santa Barbara county trapped for the detection of 13 different exotic pests. These include the Mediterranean, Oriental, and Melon Fruit flies, Asian Citrus Psyllid, Glassy-Winged Sharpshooter, Gold Spotted Oak Borer, Polyphagous Shothole Borer, and Light Brown Apple moth. These traps were set at various densities per square mile and serviced as frequently as every two weeks.

### Biological Control

During 2016, Santa Barbara County made several live insect releases of *Tamarixia radiata* wasps to help suppress the Asian Citrus Psyllid. During the year the department conducted biological control monitoring for Tamarixia at three locations.



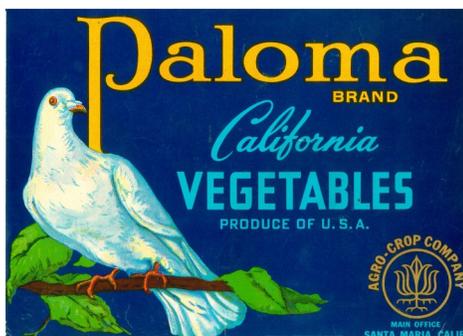
*Tamarixia radiata*  
Photo courtesy of UC Riverside

### Weed Abatement



Removal of *Arundo donax*

The department assisted in the control of 5 different weeds; Pampas grass (*Cortaderia selloana*), Japanese Dodder (*Cuscuta cf. japonica*), *Arundo donax*, Onionweed (*Asphodelus fistulosus*) and Artichoke thistle (*Cynara cardunculus*).



# Certified Farmers Market

Santa Barbara County offers a variety of microclimates ideal for growing many different types of produce. The mild coastal climate also allows for active Certified Farmers Markets (CFMs) all year long. Currently, there are 16 CFMs in Santa Barbara County.

Many consumers have already discovered the benefits of buying locally grown, fresh picked fruits and vegetables available at local CFMs. A CFM is a place where the consumer can meet California growers and get an understanding of the daily challenges associated with growing the food they eat. In addition, direct marketing often allows the grower and consumer to save money by cutting out shipping, packing, and wholesale costs associated with large volume distributing and marketing. With the growing concerns about food safety, consumers are beginning to realize that buying California-grown means they are getting produce that is grown under some of the strictest food safety guidelines in the world.

If you are interested in becoming a Certified Producer or opening a Certified Farmers Market, contact the County Agricultural Commissioner's office in the county where you grow your commodities or visit: <http://cosb.countyofsb.org/agcomm/agcomm.aspx?id=11582>

## Santa Barbara County Farmers Market Schedule



| Sun   | Mon               | Tue   | Wed  | Thu  | Fri  | Sat   |
|---|-------------------|---|--|--|--|---|
| <b>Goleta</b><br><b>10am-2pm</b><br>Storke Rd. & Hollister Ave<br><br><b>Lompoc Village</b><br><b>10am-2pm</b><br>Burton Mesa & Constellation Rd. | <b>NO MARKETS</b> | <b>Orcutt</b><br><b>10am-1pm</b><br>Bradley St. & Clark Ave.<br><br><b>Santa Barbara</b><br>Summer: 4-7:30pm<br>Winter: 3-6:30pm<br>500-600 blocks State Street | <b>Santa Maria</b><br><b>12:30-4:30pm</b><br>Broadway & Main Street<br><br><b>Solvang</b><br><b>2:30-6:30pm</b><br>Copenhagen Drive & 1st Street<br><br><b>UCSB</b><br><b>12:00-3:00pm</b><br>SRB/Faculty Club Parking Lot 23 on UCSB Campus | <b>Carpinteria</b><br><b>3-6pm</b><br>800 Block Linden Ave<br><br><b>Goleta</b><br><b>3-6pm</b><br>Stork Rd. & Hollister Ave | <b>Montecito</b><br><b>8-11:15am</b><br>1100-1200 blocks Coast Village Road<br><br><b>Lompoc 2-6pm</b><br>Ocean Ave & I Street<br><br><b>Santa Maria</b><br>1st Friday of the Month—4-7PM—800 S. College Dr. (Lot 1)<br><br><b>Santa Maria</b><br><b>5-8PM</b><br>Town Center West | <b>Santa Barbara</b><br><b>8:30am-1:00pm</b><br>Santa Barbara St & Cota St.<br><br><b>Goleta</b><br><b>11am-3pm</b><br>5748 Calle Real<br><br><b>Santa Maria</b><br><b>9:00am-1:00pm</b><br>371 Town Center |

**Santa Barbara Certified Farmers Market Association**

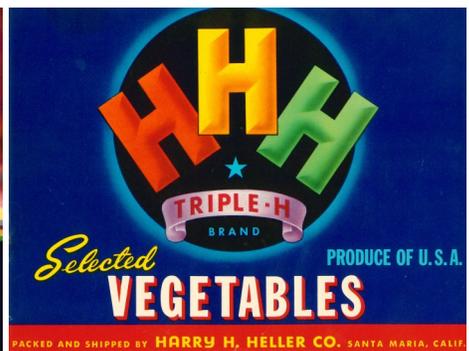
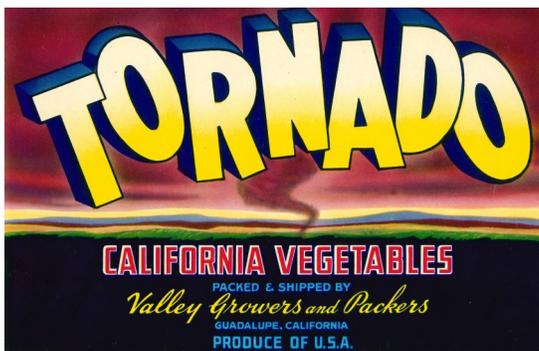
**Village Farmers Market Association**

**Gacho Certified Farmers Market @ UCSB**

**Central Cities Certified Farmers Market Association**

**Santa Maria Town Center Farmers Market Experience**

**First Friday Artisan Market - Allan Hancock College**

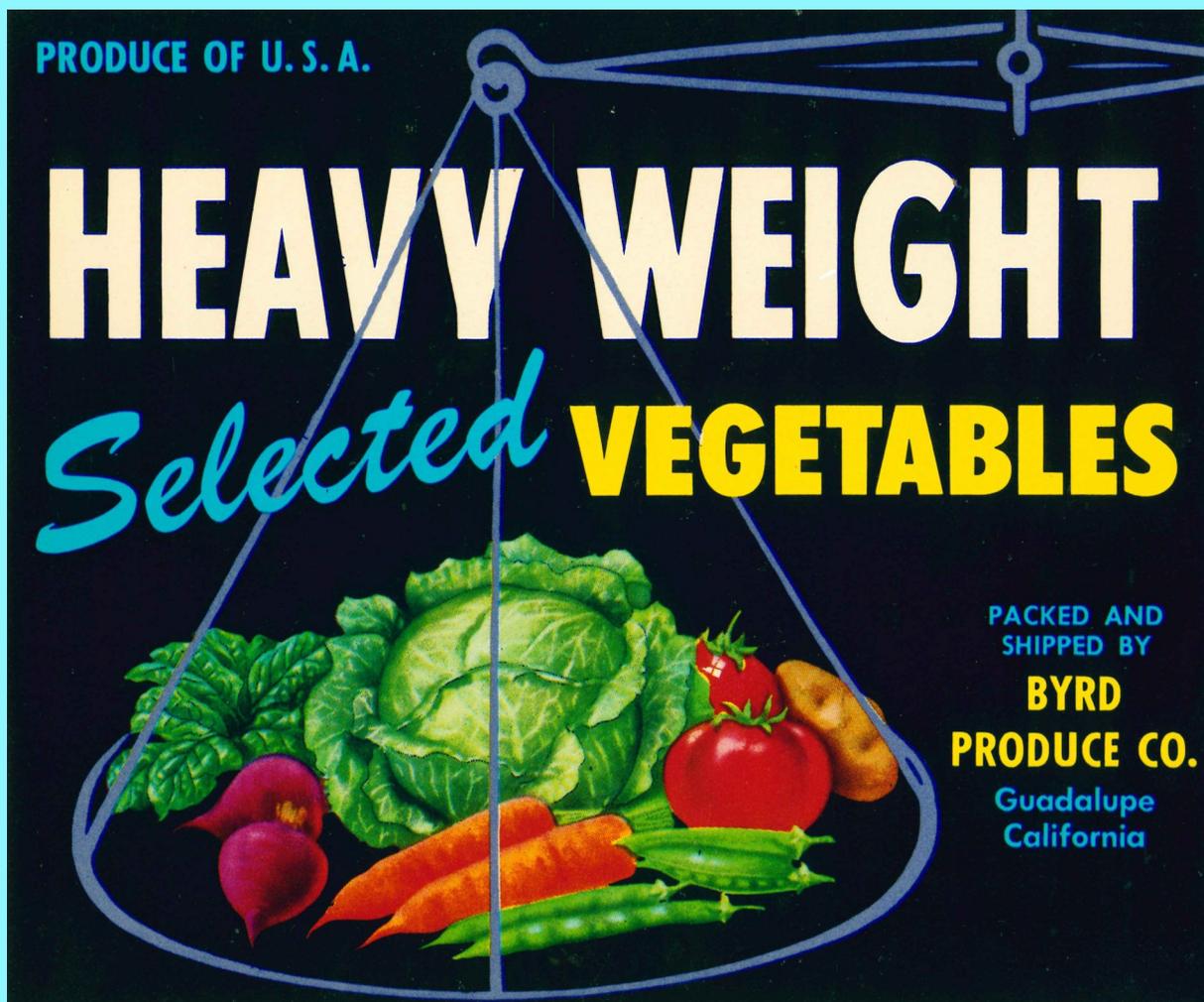


# Weights and Measures

| Weighing Device                | Number of inspections | Measuring Device                           | Number of inspections |
|--------------------------------|-----------------------|--|-----------------------|
| Computing/Counter Scales       | 1077                  | Retail Fuel Meters                         | 2700                  |
| Vehicle Scales                 | 58                    | Taxi Meters                                | 183                   |
| Dormant/Platform Scales        | 242                   | Wholesale Meters                           | 60                    |
| Livestock Scales               | 41                    | Liquid Propane Gas Meters                  | 55                    |
| Hanging/Crane Scales           | 57                    | Vapor/Water/Electric Submeters             | 1860                  |
| Jewelry Scales                 | 28                    | Vehicle Meters                             | 56                    |
| Miscellaneous Weighing Devices | 3                     | Odometers (Truck Rental/Emergency vehicle) | 87                    |

| Price and Quantity Verification | Number of Inspections | Items Sampled | Results                            |
|---------------------------------|-----------------------|---------------|------------------------------------|
| Price verification Inspections  | 808                   | 16900         | 19% of inspections had overcharges |
| Package & Labeling Inspections  | 70                    | 16500         | 600 packages ordered off sale      |



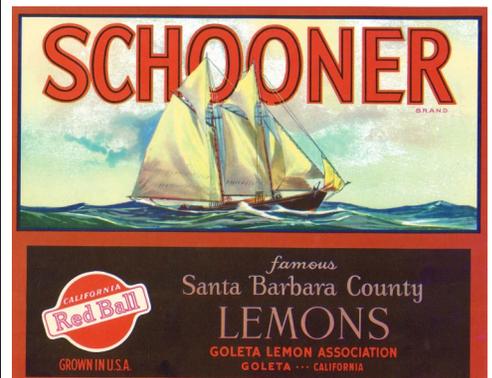
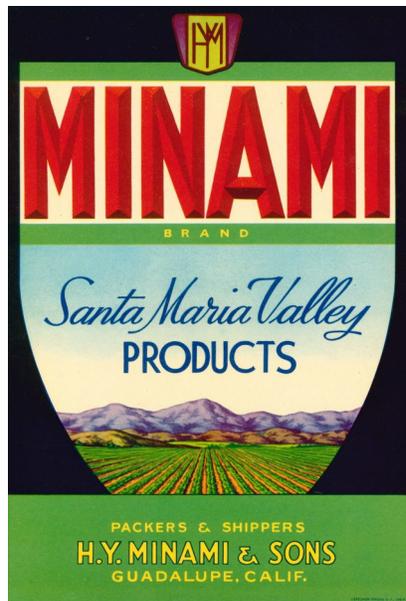
# Staff Highlights



Mary Ann Rajala was an important part of the department for over 30 years. She started with the Santa Barbara County Agricultural Commissioner's Office on October 10, 1984 as a seasonal insect trapper and at her retirement in November of 2016, she was the Supervising Agricultural Biologist in the Santa Barbara office.

Mary Ann worked in all programs, including pest prevention, Certified Farmer's Market, organic, and nursery, however, the department and the regulated industry most benefited from her extensive knowledge of the pesticide use enforcement program.

That knowledge, coupled with her passion for integrated pest management principles allowed her to balance compliance with education. Since retiring, Mary Ann has been able to spend more time with her family, gardening, and making jewelry.



Thank you to the following for sharing your crate labels, and historical images:

Jimmy Ancheta, Terrie Cardoza, Jeff Saleen, Fresh Kist Produce, Tim Buffalo and the Santa Maria Historical Society

Rainbow Over the Vineyard image: Heather Daentiz





# Department Staff



## Commissioner/Sealer

Cathy Fisher

### Assistant Commissioner/Sealer

Rudy Martel

### Deputy Commissioners

Lottie Martin (SM)                      Stephanie Stark (SB)

Debbie Trupe

### Deputy Sealer

Matthew Maiten

### IT Systems Analyst

Gus Maio

### Supervising Agricultural Biologists

Alma Cangelosi                      Ryan Casey

### Administrative Staff

Traci Lewis                      Mirtha Pantoja

Alicia Morales                      Kendra Stites

### Agricultural IPM Specialist

Mel Graham

### Agricultural Biologists

Daniel Delfin

Harriet Heath

Julia Kosowitz

Rocio Lara-Sillas

Adriana Rosales

Claudia Sancho

Tashina Sanders

Andrew Schaeffer

Chad Schmid

Connor Shanahan

Ian Swisher

Mariah Taylor

Chris Tyler

### Agricultural Detection Canine

Doomis, handled by Chris Tyler

### Weights and Measures Inspectors

Sam Ansari

Sally Leon-Tondro

Daniel Garcia

Scott Perkins

### Agricultural Technician/Extra Help

Fernando Armenta Perez

Jennyfer Savin

### Agricultural Project Aide

Ruth Jensen