2014 cRG

COUNTY OF SAN DIEGO CROP STATISTICS & ANNUAL REPORT



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Karen Ross, Secretary, California Department of Food and Agriculture

The Honorable Board of Supervisors of the County of San Diego Supervisor Bill Horn, Chair, District 5 Supervisor Dave Roberts, Vice Chair, District 3 Supervisor Greg Cox, District 1 Supervisor Dianne Jacob, District 2 Supervisor Ron Roberts, District 4

I respectfully submit this report of acreage, yield and value of agricultural production for San Diego County. In 2014, the value of agriculture in San Diego County totaled \$1,817,465,883. This equates to a 2% decrease from 2013's total value of \$1,850,307,291. The overall acreage devoted to commercial agriculture went from 305,573 acres in 2013 to 268,592 acres in 2014 for a 12% decrease overall. While individual crops have reduced acreage in 2014, the majority of lost acreage came from rangeland which saw a decrease of 32,066 acres. This decrease is reflective of a new data source used to identify rangeland in San Diego County.

The 2014 Crop Statistics and Annual Report details crop information and highlights the many diverse programs within the Department of Agriculture, Weights and Measures. Our dedicated staff work to support the County's focus on healthy families, safe communities, and sustainable environments.

Special thanks go to the many producers, industry groups, and public agencies who provided vital information for this report. I'd also like to extend much appreciation to my outstanding staff for continually providing our customers with superior service. With special recognition to Vince Acosta, Colleen Carr, John Taylor, and Brian Hammond for their effort to compile this report.

Sincerely.

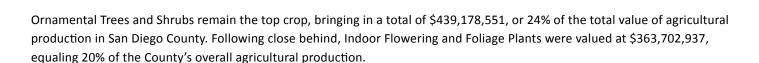
County Agricultural Commissioner

2014 Highlights



Total Value of Production	\$1,817,465,883
Total Acreage	268,592
Commodity with Highest Reported Dollar Value	Ornamental Trees & Shrubs
Highest Dollar Value per Acre	Indoor Flowering & Foliage Plants
Lowest Dollar Value per Acre	Rangeland
Greatest % Increase in Total Dollar Value from 2013	Strawberries
Greatest % Decrease in Total Dollar Value from 2013	Beeswax
Commodity with the Greatest Amount of Planted Acreage	Avocados

Overview of Changes



Nursery and Cut Flower Products value grew by 4%, totaling \$1,182,613,913.

Due mostly to the 22% decrease in avocado value, Fruit and Nut crops equaled \$385,988,806, after falling 7% in overall value. Because avocados are water-dependent, they continue to be affected by the ongoing drought.

Vegetable crop value decreased to \$157,217,383, an 8% decline caused by a reduction in planted acres.

Apiary Products, valued at \$2,281,956, saw an overall decrease of 9%. While the production value of apiary commodities such as honey and beeswax decreased, the value of pollination services increased. Additionally, the categories Bees & Queens and Pollen were removed due to confidentiality.

Livestock and Poultry were valued at \$26,436,487, decreasing 8% due to the decline in head of cattle and calves.

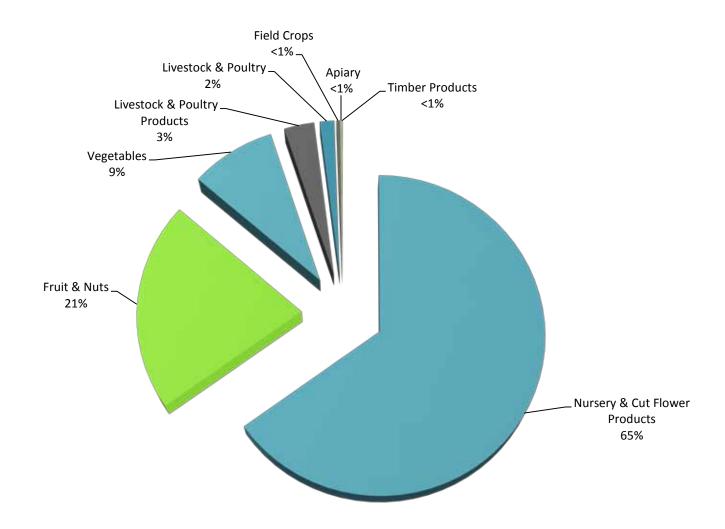
Livestock and Poultry Products value fell 35%, totaling \$55,380,848. This value decline is attributed to the decrease in chicken egg production. As a result of Proposition 2 and CR 1315, egg production has become more expensive, causing some chicken ranches to either go out of business or downsize their egg laying hen populations.

Cover photo: Go Green Agriculture, Encinitas CA

Summary of Major Crops

Crop	Year	Acres	Value
Nursery & Cut Flower Products	2014	12,702	\$1,182,613,913
	2013	12,776	\$1,139,427,462
Fruit & Nuts	2014	34,811	\$385,988,806
	2013	37,910	\$415,645,774
Vegetables	2014	4,631	\$157,217,383
	2013	5,107	\$170,676,812
Field Crops	2014	216,448	\$6,644,917
	2013	249,780	\$7,644,047
Apiary	2014		\$2,281,956
	2013		\$2,517,936

	Year	Acres	Total Value
Timber Products	2014		\$901,572
	2013		\$886,560
Livestock & Poultry	2014		\$26,436,487
	2013		\$28,797,952
Livestock & Poultry			
Products	2014		\$55,380,848
	2013		\$84,710,748
Totals	2014	268,592	\$1,817,465,883
	2013	305,573	\$1,850,307,291

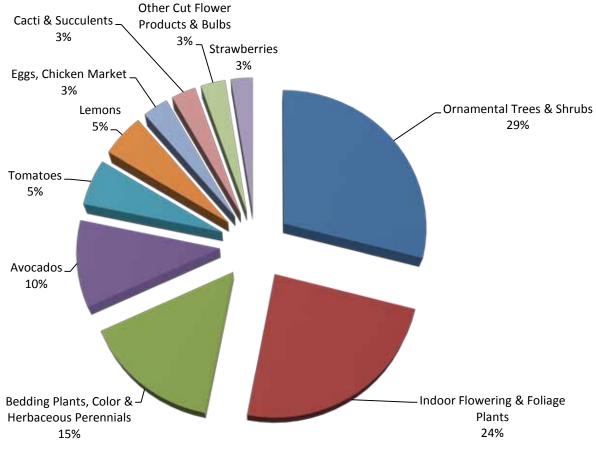


Top Ten Crops

Crop	Total Value
Ornamental Trees & Shrubs	\$439,178,551
Indoor Flowering & Foliage Plants	\$363,702,937
Bedding Plants, Color & Herbaceous Perennials	\$228,466,067
Avocados	\$154,038,303
Tomatoes	\$81,878,400
Lemons	\$76,660,469
Eggs, Chicken Market	\$45,244,848
Cacti & Succulents	\$43,400,000
Other Cut Flower Products & Bulbs	\$43,320,222
Strawberries	\$37,950,000









Agriculture covers 268,620 acres in San Diego County and is a key contributor to the County's economy, along with defense, manufacturing, tourism and biotechnology.

San Diego County farmers produce more than 37 commodities, that are valued in excess of \$1 million dollars each.

The National Weather Service describes the San Diego climate as the most nearly perfect in America, characterized as Mediterranean, with warm winters and cool summers. San Diego County is the fifth most populous county in the U.S., and has the 20th largest agricultural economy in the U.S.

San Diego County has 5,732 farms, more than any other county in the United States. 68% of San Diego County farms are 1-9 acres. Nearly 19% of farms in San Diego County are operated by women.

Statewide, San Diego County is in the top five counties for Nursery Products, Oranges, Chickens, Flowers & Foliage, Tomatoes (Fresh Market), Lemons, Avocados, Eggs (Chicken), Mushrooms, and Grapefruit.

San Diego County has a geographic area of 4,200 square miles. Agriculture covers 420 square miles in the county.

San Diego County's varied topography creates a wide array of microclimates resulting in nearly 30 different types of natural vegetation communities. This diversity allows for San Diego to grow over 200 different agricultural commodities - from strawberries along the coast, to apples in the mountain areas, to palm trees in the desert.

Nursery and Top Ten Crops

Crop	Year	Acres	Total Value
Bedding Plants, Color & Herbaceous Perennials *Bedding Plants, Color & Herbaceous Perennials	2014 2013	1,318 1,325	\$228,466,067 \$233,000,000
**Bulbs, Corms, Rhizomes, Roots, Tubers	2014		
	2013	80	\$640,000
Cacti & Succulents	2014	310	\$43,400,000
	2013	245	\$26,460,000
Citrus, Avocado, & Subtropical Fruit Trees	2014	280	\$15,954,400
	2013	289	\$15,895,000
*Indoor Flowering & Foliage Plants (including Poinsettia)	2014	863	\$363,702,937
	2013	721	\$329,497,000
Ornamental Trees & Shrubs	2014	5,303	\$439,178,551
	2013	5,378	\$424,862,000
Turf & Cut Christmas Trees	2014	696	\$15,470,688
	2013	705	\$16,215,000
Poinsettia (included in "Indoor Flowering & Foliage Plants")	2014		
	2013	149	\$19,072,000
Total Nursery Products	2014	8,770	\$1,106,172,643
	2013	8,892	\$1,065,641,000
* Values were combined from 2013 crop report			
**Included in "Other Cut Flowers" for 2014			
Crop	Year	Acres	Total Value
Leptospermum	2014	411	\$2,178,671
	2013	407	\$2,645,500
Proteas	2014	607	\$4,821,813
	2013	589	\$4,799,172
Wax Flowers	2014	786	\$5,681,189
	2013	778	\$4,789,368
Other Cut Flowers & Bulbs	2014	1,356	\$43,320,222
	2013	1,335	\$43,408,422
Foliage	2014	773	\$20,439,375
Total Flavors Dandusts	2013	775	\$18,144,000
Total Flower Products	2014 2013	3,933 3,884	\$76,441,270 \$73,786,462
Total Nursery & Cut Flower Products	2013	12,702	\$1,182,613,913
Total Hursery & Cut Howel Floudets	2014	12,702	\$1,139,427,462
	2013	,,,,	Ţ-,-33, 12., POL

Fruit & Nut Crops

Crop	Year	Acres	Tons/Acre	Tons	US \$/Ton	Total Value
Apples	2014	254	2	508	\$1,583	\$804,164
	2013	262	2	524	\$1,525	\$799,100
Total Avocados	2014	18,439	3	59,091	\$2,607	\$154,038,303
	2013	21,082	5	97,957		\$197,915,300
Hass	2014	17,405	3	56,412		\$148,466,436
	2013	19,784	5	91,778		\$183,293,787
Lamb-Hass	2014	758	3	2,041		\$4,669,441
	2013	875	6	5,493		\$13,894,820
Other	2014	276	2	638		\$902,427
	2013	423	2	687		\$726,693
Berries, Misc.	2014	320	9	2,878	\$12,660	\$36,441,430
	2013	318	9	2,862	\$12,000	\$34,344,000
Total Citrus	2014	12,605	13	167,534		\$133,573,898
	2013	13,244	15	196,083		\$136,977,845
Grapefruit	2014	1,538	17	26,607	\$463	\$12,325,677
	2013	1,680	20	36,960	\$465	\$17,172,960
Kumquats	2014	84	4	336	\$5,000	\$1,680,000
	2013	89	4	356	\$4,600	\$1,637,600
Lemons	2014	3,569	19	69,439	\$1,104	\$76,660,469
	2013	3,499	22	76,978	\$1,040	\$80,043,124
Limes	2014	280	7	1,876	\$855	\$1,603,980
	2013	290	10	2,900	\$834	\$2,418,600
Oranges	2014	6,170	9	55,577	\$516	\$28,701,207
	2013	6,656	10	64,469	\$377	\$24,301,401
Tangerines & Tangelos	2014	964	14	13,698	\$920	\$12,602,565
	2013	1,030	14	14,420	\$791	\$11,404,160



Fruit & Nut Crops

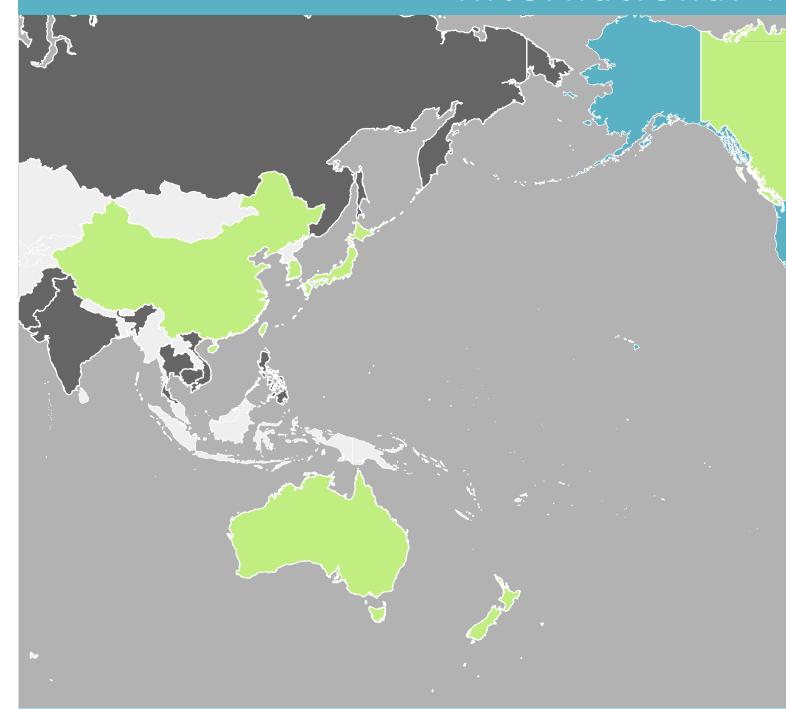
Crop	Year	Acres	Tons/Acre	Tons	US \$/Ton	Total
Grapes, Wine	2014	923	5	4,246	\$1,547	\$6,568,253
	2013	842	5	4,210	\$1,547	\$6,512,870
Macadamia Nuts	2014	In Misc.				
	2013	59	1	59	\$4,057	\$239,363
Misc. Fruit & Nuts	2014	1,396				\$15,593,318
	2013	1,432				\$14,465,220
Persimmons	2014	299	2	449	\$2,273	\$1,019,441
	2013	345	4	1,380	\$1,700	\$2,346,000
Strawberries	2014	575	33	18,975	\$2,000	\$37,950,000
	2013	326	34	11,084	\$1,989	\$22,046,076
Total Fruit & Nuts	2014	34,811				\$385,988,806
	2013	37,910				\$415,645,774

Vegetable & Vine Crops

Crop	Year	Acres Harvested	Tons/ Acre	Tons Total Production	US \$/Ton	Total
Cucumbers	2014	233	12	2,796	\$484	\$1,353,264
	2013	208	10	2,080	\$520	\$1,081,600
Herbs/Spices	2014	401	11	4,411	\$4,550	\$20,070,050
	2013	478	11	5,258	\$4,572	\$24,039,576
Miscellaneous Vegetables	2014	1,370	13	17,298	\$1,916	\$33,151,992
	2013*	1,404	12	17,029	\$1,824	\$31,056,043
Mushrooms	2014			4,284	\$3,367	\$14,424,228
	2013			4,284	\$3,154	\$13,511,736
Peppers	2014	205	20	4,039	\$878	\$3,545,803
	2013	194	20	3,822	\$824	\$3,149,163
Potatoes	2014	294	16	4,631	\$37	\$171,838
	2013	274	9	2,466	\$429	\$1,057,914
Squash	2014	408	9	3,672	\$714	\$2,621,808
	2013	649	9	5,841	\$700	\$4,088,700
Tomatoes	2014	1,720	15	25,800	\$3,174	\$81,878,400
	2013	1,872	15	28,080	\$3,301	\$92,692,080
Total Vegetables	2014	4,631				\$157,217,383
	2013	5,107				\$170,676,812

^{*}Sum of Miscellaneous Vegetables for comparison

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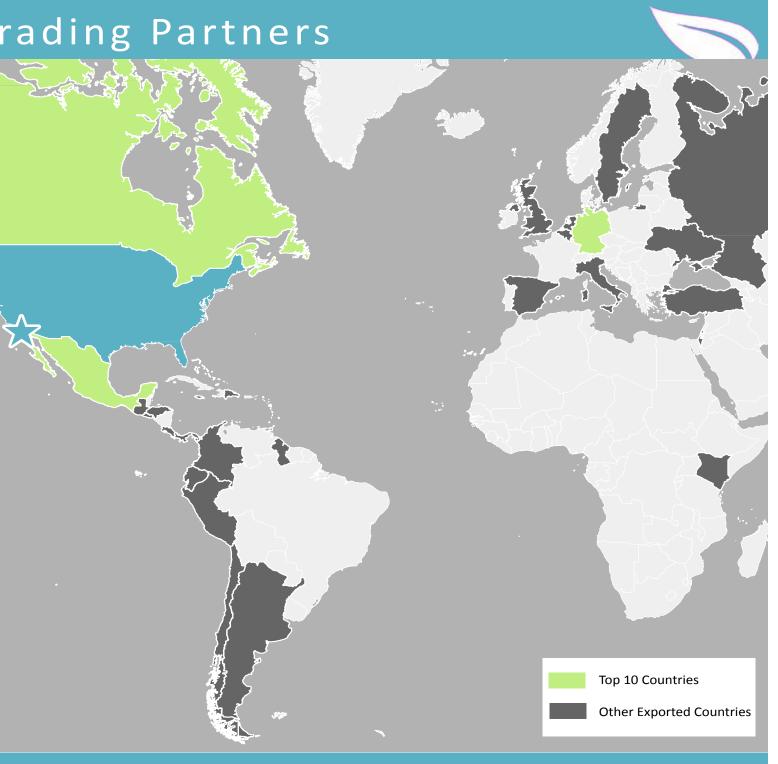
7,487 Shipments Se

Mexico	5,781
Japan	693
Canada	596
Korea, Republic of	135
New Zealand	39
Taiwan	30
China	26

Hong Kong	24
Australia	13
Germany	13
Thailand	10
United Kingdom	10
Costa Rica	9
El Salvador	9

Israel	9
Singapore	9
Guatemala	8
Netherlands	7
Trinidad and Tobago	6
Honduras	5
Chile	4

Russian Federation	4
Bahamas	4
Barbados	3
Italy	3
Philippines	3
Turkey	3
Cambodia	2



ent to 51 Countries

Dominican Republic	2
Guyana	2
Micronesia	2
Qatar	2
Spain	2
Vietnam	2
Anguilla	1

Argentina	1
Belgium	1
Cayman Islands	1
Colombia	1
Ecuador	1
Grenada	1
Guadeloupe	1

India	1
Jamaica	1
Kenya	1
Mauritius	1
Pakistan	1
Panama	1
Peru	1

Sweden	1
Ukraine	1

Livestock and Poultry

Commodity	Year	Number of Head	Weight (CWT)	US \$/ CWT	Total Value
Cattle & Calves	2014	11,100	99,900	\$207	\$20,643,336
	2013	15,441	138,969	\$168	\$23,346,792
Hogs & Pigs	2014	1,391	3,478	\$74	\$257,335
	2013	1,300	3,250	\$61	\$198,250
Chickens	2014 2013		86,200 86,200	\$63 \$60	\$5,446,116 \$5,172,000
Lambs & Sheep	2014	897	897	\$100	\$89,700
	2013	899	899	\$90	\$80,910
Total Livestock & Poultry	2014 2013				\$26,436,487 \$28,797,952

Livestock and Poultry Products

Commodity	Year	Number	Weight (CWT)	US \$/ Unit	Total Value
Milk, Market	2014 2013		444,279 434,860	\$23 \$19	\$10,061,000 \$8,339,000
Eggs, Chicken Market	2014 2013	35,577,960 Dz 63,064,255 Dz		\$1 \$1	\$45,244,848 \$76,307,748
Ratite Oil	2014 2013	117 Gal 100 Gal			\$75,000 \$64,000
Total	2014 2013				\$55,380,848 \$84,710,748

Forest Products





Commodity	Year	Total Value
Timber	2014	\$14,905
	2013	\$8,671
Firewood	2014	\$886,667
	2013	\$877,889
Total Products	2014	\$901,572
	2013	\$886,560

Field Crops

Сгор	Year	Acres Harvested	Tons/Acre	Tons Total Production	US \$/ Ton	Total Value
Hay, Oat	2014 2013	3,847 4,931	2 2	7,694 9,862	\$190 \$186	\$1,461,860 \$1,834,332
Pasture, Irrigated	2014 2013	1,533 1,500				\$2,968,041 \$2,850,000
Range	2014 2013	208,564 240,630				\$1,313,953 \$1,925,040
Misc. Field	2014 2013	2,504 2,719				\$901,063 \$1,034,675
Total Field Crops	2014 2013	216,448 249,780				\$6,644,917 \$7,644,047

Apiary Products



Commodity	Year	Total Value
Honey	2014 2013	\$150,573 \$971,438
Beeswax	2014 2013	\$2,575 \$69,007
Bees & Queens	2014 2013	Not reported \$168,490
Pollen	2014 2013	Not reported \$90,000
Pollination	2014 2013	\$2,128,808 \$1,219,000
Total Apiary	2014 2013	\$2,281,956 \$2,517,936

Sustainable Agriculture

Sustainable Agriculture promotes the economic viability of agriculture while preserving natural resources and the environment. Pest prevention activities are essential to inhibiting the spread of exotic pests and ensuring a sustainable agricultural industry in California.

The Department of Agriculture, Weights and Measures administers programs for the detection, control and eradication of insect pests, plant diseases and invasive weeds, as well as for the enforcement of quarantines to prevent the spread of invasive pests.

Pest ratings are intended as aids to inform county agricultural commissioners and other interested persons as to a particular pest's environmental, agricultural and biological significance, as well as its importance to the general public, and the action recommended by the California Department of Food and Agriculture to deal with the pest.

"A"-rating: Organism of known economic importance subject to state (or agricultural commissioner) enforced action.

"Q"-rating: Organism requiring a temporary "A" rating pending determination of a permanent rating. The organism is suspected to be of economic importance but its status is uncertain because of incomplete identification, inadequate information, etc.

2014 "A" Rated Finds	Common Name	Finds
Ceroplastes rusci	fig wax scale	6
Ceroplastes rubens	red wax scale	2
Pseudaulacaspis cockerelli	magnolia white scale	29
Lopholeucaspis cockerelli	cockerell scale	1
Pinnaspis strachani	lesser snow scale	11
Pinnaspis sp.	armored scale	1
unknown	armored scale	1
Solenopsis invicta	red imported fire ant	1
Maconellicoccus hirsutus	pink hibiscus mealybug	1
Diaphorina citri	Asian citrus psyllid	Many
Ephiphyas postvittana	light brown apple moth	89
Bactrocera dorsalis	oriental fruit fly	1
Fusarium oxysporum	Fusarium oxysporum	25
Total		168+

2014 "Q" Rated Finds	Common Name	Finds
Singhiella simplex	ficus whitefly	7
Aleurotrachelus sp.	palm infesting whitefly	1
Trialeurodes sp.	whitefly	1
Bambusaspis miliaris	bamboo pit scale	1
Horidiplosis ficfolil	ficus eye spot midge	2
unknown	leafhopper nymphs	3
Milviscutulus mangiferae	mango shield scale	6
unknown	wax scale	5
unknown	soft scale	1
Acutaspis agavis	agave scale	1
unknown	armored scale	2
Aulacaspis yasumatsui	cycad aulacaspis scale	1
Pseudaonidia trilobitiformis	cashew/trilobe scale	1
Cardiocondyla sp.	myrmicine ant	1
Monomorium floricola	bicolored trailing ant	1
Pheidole sp.	big headed ant	1
unknown	formicid ant	1
Parmarion martinsi	semi-slug	3
Eleutherodactylus coqui	coqui frog	3
unknown	philomycid land slug	1
Paracoccus gillianae	Gillian's agave mealybug	13
Paracoccus sp.	agave mealybug	9
Pseudococcus sp.	agave mealybug	1
Ripersiella hibisci	root mealybug	1
Ferrisia dasylirii	grey mealybug	1
Ferrisia sp.	mealybug	3
Palmicultor palmarum	palm mealybug	3
Planococcus sp.	mealybug	2
unknown	mealybug	3
Tetranychus sp.	tetranychid mite	2
unknown	katydid	1
unknown	leafroller	1
Euwallacea sp.	polyphagous shothole borer	1
Enchylaena tomentosa	ruby salt bush	1
Colletotrichum cymbidiicola	Colletotrichum cymbidiicola	15
Neofusicoccum mangiferae	Neofusicoccum mangiferae	1
Neofusicoccum sp.	Neofusicoccum sp.	2
Pepino mosaic virus	Pepino mosaic virus	1
Fusarium sp.	Fusarium-Euwallacea complex	1
Total		105

Sustainable Agriculture

High Risk Pest Exclusion

- 4,163 shipments inspected
- 114 Notices of Rejection (NORs) were issued
- 128 pests were found (46 A-rated, 39 B-rated, 43 Q-rated)
- 3 international border operations with Homeland Security, Customs and Border Protection and U.S. Department of Agriculture

Detector Dog Teams

- The dogs alerted on 7,725 packages shipped through Fed-Ex and UPS
- 482 of those packages were not marked as containing plant material and 433 actually contained plant material (90% accuracy rate)
- 42 inspections were conducted at the USPS main shipping terminal in San Diego County resulting in alerts on 353 parcels
- 423 shipment rejections (NORs) were issued to shippers in violation of the Food and Agricultural Code

Organic Farming

Top 10 Organic Crops	Acres
Avocados	3,863
Lemons	1,210
Oranges, Valencia	1,099
Grapefruit	606
Herbs/Spices	330
Oranges, Navel	235
Tangerines	131
Tangelos	126
Tomatoes	109
Blueberries	103

San Diego County is at the forefront of organic farming with 363 registered organic producers. In 2014, organic growers produced more than 125 different crops, from avocados to pineapples. The majority of organic produce grown locally is sold to wholesalers who in turn sell it to markets across the United States. A portion of the produce is sold directly to local restaurants and natural food stores. Organic growers also sell directly to the public through produce stands, Certified Farmers' Markets throughout the County of San Diego, and Community Supported Agriculture (CSA) programs. The USDA's National Organic Standards Board defines "organic agriculture" as an ecological production management system that promotes and enhances biodiversity, biological cycles, and soil biological activity. San Diego County has 11% of the total number of Certified Organic growers in the state.

Invasive Weed Control

Weed Species	Rating	Removal Method	Acreage Surveyed/Treated
Yellow starthistle, Centaurea solstitialis	С	Herbicides/Hand Removal	126
Spotted knapweed, Centaurea maculosa	А	Herbicides/Hand Removal	18

Growing Smarter-Being Water Wise

Not long ago, citrus and avocados dominated the hillsides and valleys of our county. Lush and green, they were a gateway to our backcountry. After back-to-back droughts during the past decade, however, less and

more costly water has forced farmers to shut off irrigation to their groves.

Abandoned and dead groves, along with acres of stumped avocado trees, are testimony to a long-lasting drought that has caused wells to go dry. However, new harvests are on the horizon. Dedication and perseverance have encouraged farmers to look at new and different crops.

Farmers are starting to plant drought-tolerant crops like dragon fruit, olives, wine grapes, blueberries, and blackberries to replace more thirsty crops like avocados

and citrus. This shift could change our agricultural

landscape in the years ahead, boosting the current vineyards and wineries that have become popular destinations to spend the day.

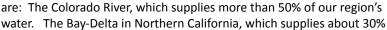
Nursery owners have shifted to growing more cactus and succulents to accommodate water restrictions and to fill the demand by homeowners for drought tolerant landscape material. Great efforts and education have gone into promoting water wise concepts across the county.

Cuyamaca College in East County has a spectacular water wise garden with lots of water saving ideas and literature for small or large scale projects.

Hydroponic farming is another growing method we are seeing in San Diego County. Hydroponics is the art and science of growing plants without soil. Instead, plant roots

are suspended in nutrient-rich water, a system which can use up to 60 to 80 percent less water than conventional outdoor farms by recycling every drop of water that plants don't take up.

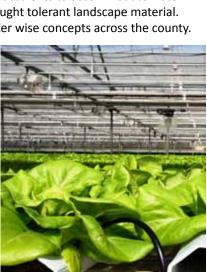
You may now be thinking: "Where does our water come from?" San Diego County's water supplies are imported from sources hundreds of miles away. These imported sources



of our region's water through a vast network of channels and islands at the convergence of the Sacramento and San Joaquin rivers, collected as runoff from the Sierra Nevada mountain range. San Diego County also has about 20% of the region's water demand met by local supplies, including surface water, groundwater, recycled water and conservation. Groundwater is relied upon to recharge well water. Those without wells must rely on water that is sold by local water districts. The price of this water has been increasing and is in increasingly short supply.







Programs and Services - 2014 Highlights

Plant Health and Pest Prevention is the first line of defense in keeping unwanted pests out of our county. Inspections of incoming and outgoing plant shipments and production nurseries look for pests harmful to agricultural production here or at the shipment destination.

- 4,163 incoming plant shipments inspected with 128 actionable pest finds.
- 433 unmarked parcels containing plant material intercepted by the Detector Dog Teams
- 474 nurseries, comprising 6,849 acres, inspected for pests and diseases

Pest Detection is a critical component of our statewide pest prevention network and is our county's second line of defense against the introduction and spread of insect pests, such as exotic fruit flies, Japanese beetle, and Gypsy moth. 395,901 trap inspections were conducted in 2014.

Pesticide Regulation enforces state pesticide laws and regulations. Inspections, complaint and illness investigations, and evaluations of restricted material permits all serve to ensure pesticides are used in a safe and legal manner while protecting human and animal health, as well as the environment.

- Conducted 1,189 inspections
- Conducted 72 hazardous materials inventory inspections
- Completed 152 pesticide/antimicrobial investigations
- Investigated 66 complaints
- Issued 222 restricted materials permits
- Conducted 30 outreach events involving over 1,000 people
- 20 stakeholder meetings were held
- Issued 14 Cease & Desist Orders
- 67 enforcement actions were taken

Agricultural Water Quality performs inspections at nurseries, greenhouses, golf courses, cemeteries, and pest control businesses ensuring compliance with the County's Stormwater Permit, mandated by the San Diego Regional Water Quality Control Board. Inspections, education, and investigations are aimed at stopping the potential for discharging pollutants such as fertilizers, pesticides, and sediment into local waterways.

- 256 inspections completed
- 18 complaints investigated

Entomology and Plant Pathology Labs provide rapid insect and plant disease identification allowing a quick response in the fight against pests.

- Entomology lab performed 8,531 determinations
- Plant pathology lab performed 2,043 determinations

Integrated Pest Control works under the Board of Supervisors' policy mandating the use of Integrated Pest Management (IPM), which is an effective and environmentally sound approach to performing pest control. IPM incorporates current scientific information and control methods to manage and eradicate weeds and pests by the most economical means with the least possible hazard to people, property and the environment. Integrated Pest Control's weed control work preserves road visibility and clearance; reduces fire danger along roadways and intersections; enhances drainage to prevent flooding; and keeps safety pull-over areas visible and easy to access.

- 3,788 acres within the County were treated for weeds
- 165 County facilities treated for structural pests

Agricultural Standards supports the sustainability of local agriculture, ensures a fair marketplace, and promotes healthy families by inspecting fruits, vegetables, eggs, and honey for compliance with laws, regulations, and food standards. Activities include inspecting Certified Farmers' Markets, Certified Producers, citrus maturity testing, and pesticide testing for organic produce.

57 active farmers' markets and 289 local growers certified in San Diego County

- 363 growers registered as organic
- 421,130 dozen eggs inspected at 661 egg facilities
- 57 fruit & vegetable standardization inspections conducted

Environmental Services prepares crop information, provides agricultural expertise for land use projects, performs verification of agriculture inspections for farm worker housing, coordinate's media and outreach, performs apiary inspections for ordinance compliance, staffs Fish and Wildlife Advisory Commission meetings, and maintains AWM's website and Facebook page.

Programs and Services

Weights and Measures ensures consumers get what they pay for and supports fair competition amongst businesses in the marketplace. The program performs inspections to verify accuracy of product weight, measure, and price. These inspections include testing of commercial weighing and measuring devices, labeling and advertising requirements for petroleum products, price verification (scanners), quantity control for packages, and weighmaster compliance.

- 50,569 commercial weighing and measuring devices inspected with an 86% compliance rate
- 353 consumer complaints investigated
- 1,673 price verification inspections

Civil Actions advocates for the department on actions brought against a person or business due to violations found through inspections.

- 34 Civil Actions for Agricultural Standards Violations
- 469 Civil Actions for Weights & Measures Violations
- 51 Civil Actions for Agricultural Pesticide Use Violations
- 18 Civil Actions for Structural Pesticide Use Violations
- 1 Civil Action for Quarantine Violations

Program	Services	Number
Entomology	Insect identification; apiary registration; pest surveys	(858) 614-7738
Environmental Services	Crop statistics; land use issues; public information	(858) 614-7776
Integrated Pest Control	Invasive weed control; structural pest control for county owned buildings	(858) 614-7750
Plant Health &	Licenses to sell nursery products, flowers & foliage; shipping certificates; Inspections: incoming/outgoing shipments; detector dog teams; nursery;	(760) 752-4700
Pest Prevention	glassy-winged sharpshooter; Sudden Oak Death Inspection Request Line	(760) 752-4713
Pest Detection		(858) 614-7770
	Exotic insect trapping	(800) 300-TRAP
Pesticide Regulation	Agricultural inspections, structural pest control inspections; registration; operator identification numbers; pesticide use reporting; restricted materials permits; employee pesticide training requirements; pesticide complaints; agricultural hazardous material storage	(858) 694-8980
Plant Pathology	Plant disease diagnostic services; plant disease surveys	(858) 614-7734
Agricultural Standards	Certified farmers' markets; certified producer certificates; organic handler/ producer; egg producer/handler; agricultural water quality; fruit, vegetable, honey, and nut standardization	(858) 614-7786
Weights & Measures	Scanner registration; commercial weighing & measuring devices; device serviceperson; weighmaster	(858) 694-2778

The 2014 Crop Statistics and Annual Report was produced by IT Principal, Vince Acosta and Senior Agricultural/Standards Inspector, Colleen Carr with assistance from GIS Analyst, John Taylor and Operations Research Analyst, Brian Hammond.

All reported figures represent Freight on Board (F.O.B.) values for products. These are not net values and do not reflect cost of production. Total values may not add precisely due to rounding. Gross value of farm products does not reflect the total value to the economy.

Department Personnel 2014

Ha Dang

Agricultural Commissioner/Sealer of Weights & Measures

Mēgan Moore Assistant Director

Administration

Rissa Japlit, Admin Services Mgr Armando Belenzo, Accounting Tech Shirley Chin, Senior HR Officer Erlinda Espiritu, Purchasing Clerk Aida Foronas, Senior Accountant Linda Goff, Admin Analyst I

Mark Lindstrom, Admin Analyst III Sandra Luck, Office Asst Eileen Oleson, Office Asst Cirila Pieper, Account Clerk Marci Powell, Admin Sec IV Belinda Rushton, HR Specialist Nicole Callahan, Student Worker

Plant Health & Pest Prevention Jim Wynn, Deputy Commissioner & Sealer

Janet Taylor, Deputy Commissioner & Sealer

Katie Dobbins, Supv ASI Travis Elder, Supv ASI Robert Roma, Supv ASI Tracy Ellis, Ag Scientist Pat Nolan, Ag Scientist Merle Van Cleve, Sr IDS Charity McGuire, Admin Sec II Robin Royall, Office Asst Cambria Jensen, Office Asst Kathy Dawson, Student Leah Taylor, Student Sandy West, Sr. Office Asst Saiga Javed, Supv ASI Hannah Meegan, Student

Agricultural/Standards Inspectors

Nicole Goss Tony Avina Jim Byers Ethan Hagen Robert Delaval Ian Hudson Manige Robert MacGregor Narriman McNair Farhoomand Mike Feelev Adrienne Moss Kahsai Ghebretnsea David Navarro Jaime Garza Jorge Olivares

Ted Olsen Jeremy Partch Kevin Porter Jason Sapp Greg Terhall Muluneh Wube

Insect Detection Specialists

Richard Arne Allison Bray Claribeth Felix Shady Hajjar Philip Herbert Javier Pena

Dusko Pantovic Steve Robinson Luis Robledo Ian Schmidt Rebecca Silva

Pesticide Regulation

Karen Melvin, Deputy Commissioner & Sealer

Tim Holbrook, Supv ASI Stasi Redding, Supv ASI Delores Brandon, Supv ASI Gemma Bilog, Sr Office Asst Susan Callies, Office Asst Sabin Joseph, Office Asst Suzanne Raymond, Office Asst

Agricultural/Standards Inspectors

Abdel Amador Justin Aquino Andrea Araujo Nick Basinski Kristi Conway Daniel Desserich Chase GoodmanKara

Roskop-Waters Frank Santana **Jason Schwartze** Kathryn Springer Jennepher Tate-Murphy Nancy Wickus

Agricultural Standards

Jose Arriaga, Deputy Commissioner & Sealer

Ryan Wann, Supv ASI Priscilla Yeaney, Supv ASI Elinor Weed, Office Suport Spc

Agricultural/Standards Inspectors

Kristina Scott Nestor Silva Mark Lyles

Dinna Morris Bonnie Wheeler

Tom Shaw Deputy Director

Weights and Measures

Marco Mares, Deputy Commissioner & Sealer Claudia Verdugo, Supv ASI Mark Roughton, Sr Office Asst Ris Burton, Office Asst Cindy Davis, Supv ASI

Agricultural/Standards Inspectors

Glenn Braaten Randy Carrera Neil Connelly Janice Deguzman Louis Deneau Paula Dewall Lynn Gordon Mark Griffin Lee Guidry

Edith Heaton Annie Silva Gabriel Hernandez Mazen Stevens Bill Winans Atlaw Kebede John Kinkaid Craig Lawson Quang Ong Austin Shepherd **Brad Shipley**

Pest Detection

Robert Roma, Acting Program Manager

Sulpicio Agnes Jr., Sr IDS Linda Feeley, Sr IDS

Veronika Romo, Office Asst. Kassandra Candelaria, Student

Insect Detection Specialists

Kim Hock Victoria Alexander Orlando Alfaro Mohamed Jama Jennifer Anderson Roy Joseph Bill Leech Linda Blank Brian Burkman Marissa Mariscal Raul Burquez Bob Miller Belinda Moss Manuel Casillas Ben Redding Casey Choate Emily Ferrill Mary Rowin Ion Saunders Jorge Fregoso Lynne Gardner Alan Sharon

Wildlife Services

Joe Albee

Terry Cox

Paul Martin

Ivonne Torres

Valerie Wagner

Monica Winters

John Velardi

Fran Wade

Civil Actions

Sally Lorang, Civil Actions Investigator Paul Rushton, Office Asst Ian Diaz, Student

IT/GIS/Environmental Services

Vince Acosta, IT Principal

Jeff Westrick, Sr ASI Colleen Carr, Sr ASI Brian Hammond, ORA

John Taylor, GIS Analyst James Jackson, Student Avery Throop, Student

Integrated Pest Control

Janet Taylor, Program Manager

Mark Martinez, Supv Tech Walter Graves, Planner Pest Management Technicians

Paul Cadena Ioshua Gomez Dustin Hylton Ivan Robles Ray Wood

