

# ORANGE COUNTY ANNUAL CROP REPORT · 2017 ·

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#### Jeff Croy

Agricultural Commissioner Sealer of Weights & Measures



222 E Bristol Lane Orange, CA 92865 P: (714) 955-0100 F: (714) 921-2713 www.ocagcomm.com

#### Karen Ross, Secretary

California Department of Food and Agriculture

And

The Honorable Board of Supervisors of Orange County: **Andrew Do** – First District, Chairman **Shawn Nelson** – Fourth District, Vice Chairman **Michelle Steel** – Second District **Todd Spitzer** – Third District **Lisa A. Bartlett** – Fifth District

It is my pleasure to present the 2017 Orange County Crop Report as prepared pursuant to Section 2279 of the California Food and Agricultural Code. The reported total value for 2017 was \$113,237,000 representing a 1 percent decrease compared to the 2016 overall income. Agricultural production values are based upon the free-on-board (F.O.B.) packed price at the first point of delivery, and include cost of production, harvesting, and preparation for market. Gross values, therefore, do not reflect net returns to the producer. Federal incentive, conservation and other support payments are excluded from this report.

The following are highlights of the 2017 Orange County Crop Report:

- -Despite the large amount of rainfall in early 2017, all agricultural sectors continued to be challenged due to extreme temperatures persisting late into the fall and negative impacts from the large autumn fires.
- -The value and production of Orange County livestock saw an increase.
- -Decreases in overall value were seen in the vegetable, tree fruit, and berry industries.
- -Nursery products continued to top Orange County's agricultural production, contributing 55 percent of the overall agricultural value.

This report is produced each year with the outstanding partnership and cooperation of the nursery industry, ranchers, farmers, and FFA education programs that represent the agricultural industry in Orange County. My appreciation goes to all of the producers, growers, and individuals in the agribusiness sector for their assistance in providing the data to make this report possible. I also extend my sincere thanks to the exceptional staff here at Orange County who help in the compilation and preparation of this report.

Respectfully submitted,

Jeff Croy Agricultural Commissioner/Sealer of Weights and Measures

## **AGRICULTURAL PRODUCTION SUMMARY**

<b>Field</b>	<1%
Livestock	<2%
Nursery	55%
Tree & Berry	30%
Vegetable	13%

The total value of agricultural products grown within Orange County within the calendar year of 2017 is approximately

\$113,237,000

which represents a decrease of 1% when compared to the total value of production of 2016 of \$114,795,000.

Crop	2016	5	2017	Change
Livestock	\$ 887,000	\$	2,094,000	136%
Field	\$ 732,000	\$	1,187,000	62%
Nursery	\$ 55,685,000	\$	61,670,000	11%
Tree & Berry	\$ 38,344,000	\$	33,935,000	-11%
Vegetable	\$ 19,147,000	\$	14,351,000	-25%

#### Highlights of 2017

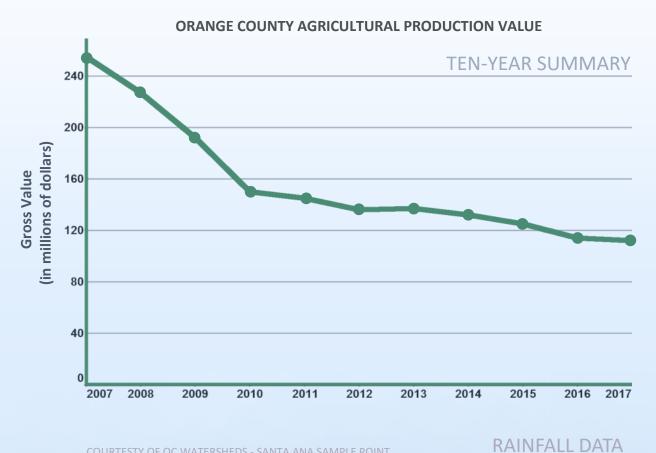
Total Agricultural AcreageCommodity with Highest Dollar ValueNursCommodity with Greatest Acreage

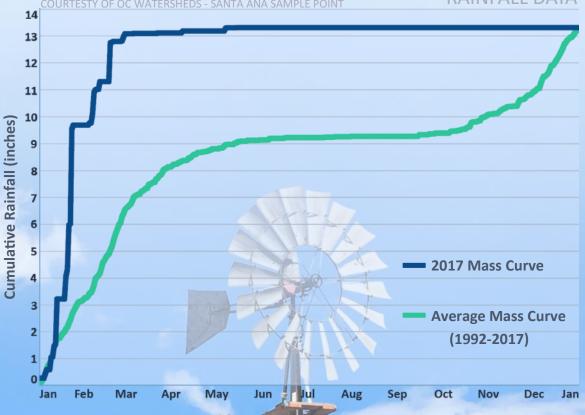
Nursery Stock

Avocados

20,689

## **TEN-YEAR SUMMARY & 2017 RAINFALL DATA**





## **NURSERY STOCK PRODUCTION**

Nursery stock ranked first for Orange County commodities again this year. 2017 saw an **11% increase** in gross returns from 2016. The 2017 nursery stock income was **\$61,670,000**, up from \$55,685,000 in 2016. This may be attributed to the massive rains experienced at the beginning of 2017 as Orange County received more than 13 inches of rain from January to March.

	Nursery Stock	Value
	Ornamental Trees & Shrubs	\$60,370,000
	Liners, Flat Stock, and Cut Trees*	\$862,000
	Succulents	\$438,000
	Total Nursery Value	\$61,670,000
	*Includes Christmas Trees	
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## **VEGETABLE PRODUCTION**

Vegetable production in Orange County is seeing gradual change as old agricultural lands are re-zoned and developed to meet the demands of the Southern California housing market. Vegetable production is expanding beyond wholesale and packing houses and towards the growing demand for farmers' markets and direct-to-consumer Community Supported Agriculture (CSA) programs. In addition, some Orange County farmers are implementing non-traditional production methods such as aquaponics greenhouses and microgreens.

Vegetable Crop	Acreage	Production (tons)	Value
Brassica <sup>1</sup>	27	352	\$221,000
Cucurbits <sup>2</sup>	46	663	\$798,000
Root Vegetables <sup>3</sup>	5	11	\$26,000
Bulb Vegetables <sup>4</sup>	3	8	\$17,000
Miscellaneous Vegetable Crops†	941	9,006	\$13,289,000
Total Vegetable Value	1,022	10,040	\$14,351,000

<sup>1</sup>Includes: broccoli, cabbage, cauliflower, and kale <sup>2</sup>Includes: cucumbers, squash, pumpkins, and watermelons <sup>3</sup>Includes: turnips, radishes, carrots, and beets <sup>4</sup>includes: onions, green onions, leeks, and garlic

<sup>+</sup>Per the United States Department of Agriculture National Agricultural Statistics Service, Disclosure Rules: Where there are less than three producers of one product or where one producer is responsible for 60 percent or more of the product entering the marketplace, the product total must be combined with other products to avoid disclosure of the business affairs of the firms involved.

## **TREE FRUIT & BERRY PRODUCTION**

Tree Fruit & Berry Crops	Acreage	Production (tons)	Value
Citrus Fruits <sup>1</sup>	373	10,096	\$7,655,000
Strawberries	386	8,939	\$19,792,000
Miscellaneous Fruit & Berry Crops <sup>2</sup>	1,078	2,088	\$6,488,000
Total Fruit & Berry Value	1,837	21,123	\$33,935,000

<sup>1</sup>Includes: oranges and lemons

<sup>2</sup>Includes: avocados, miscellaneous orchard crops, and miscellaneous berry crops

### **FIELD CROPS**

Field Crops & Pasture	Acreage	Production (tons)	Value
Total Field & Pasture Value <sup>3</sup>	16,187	1,468	\$1,187,000

AND THE REAL

<sup>3</sup>Includes: barley grain, garbanzo beans, lima beans, and pasture rental

### **APIARY PRODUCTION**

#### **Apiary Products**

#### **Total Apiary Value<sup>1</sup>**

<sup>1</sup>Includes: honey, beeswax, pollen, sale of bees and queens, and pollination rental

## LIVESTOCK PRODUCTION

Livestock	Units Sold	Value
Cattle & Swine	407	\$1,375,000
Poultry <sup>2</sup>	54	\$9,000
Miscellaneous Livestock <sup>3</sup>	217	\$99,000
Miscellaneous Livestock Products <sup>4</sup>	N/A	\$82,000
Total Livestock Value	678	\$1,565,000

<sup>2</sup>Includes: chickens and turkeys <sup>3</sup>Includes: goats, sheep, and rabbits <sup>4</sup>includes: eggs and dairy \$529,000

### **CERTIFIED FARMERS MARKETS**

Certified Farmers Markets (CFMs) are not only fun community events but also allow consumers to purchase fresh and seasonal produce directly from local growers. At CFMs, farmers may only sell produce they grow themselves. This is enforced through semiannual inspections at each market and annual commodity inspections at each production site within the county.

A total of **41** certified producer certificates were issued to local growers and a total of **35** farmers markets were certified in 2017. Market schedules may change, visit *www.ocagcomm.com* for the most recent updates.

ANAHEIM KAISER PERMANENTE 4300 E La Palma Ave Friday 9am - 2pm

COSTA MESA PACIFIC ARTS PLAZA Anton x Bristol Friday 10am - 2pm

FOUNTAIN VALLEY MARKET IN THE PARK Fountain Valley Rec Center Thursday 5pm - 8pm

HUNTINGTON BEACH Pier Plaza 6th x PCH Friday 1pm - 5pm

**IRVINE TOWERS** Von Karman x Michelson Tuesday 10am - 2pm

LAGUNA HILLS El Toro Road x Avenida de la Carlota Friday 9am - 1pm

OLD CAPISTRANO El Camino Real x Yorba Wednesday 3pm - 7pm

SAN CLEMENTE NORTH BEACH 1816 El Camino Real Wednesday 3pm - 7pm April—October

THE NEW DANA POINT Golden Lantern x PCH Saturday 9am - 1pm BUENA PARK FAMER'S MARKETPLACE La Palma x Stanton Sears Parking Lot Saturday 9am - 2pm

CYPRESS Katella x Lexington Saturday 10am - 2pm

FULLERTON Independence Park Euclid x Valencia Wednesday 8am - 1pm

IRVINE Mariners Church Parking Lot Saturday 8am - 12pm

IRVINE KAISER PERMANENTE Alton Pkwy x Sand Canyon Wednesday 9am - 1pm

LAGUNA NIGUEL La Paz Road Sunday 8am - 12pm

ORANGE HOMEGROWN & ARTISANS MARKET 304 N Cypress Ave Saturday 9am - 1pm

SEAL BEACH VILLAGE Westminster x Seal Beach Tuesday 9am - 1pm

TUSTIN 3rd x El Camino Wednesday 9am - 1pm **CORONA DEL MAR** Marguerite x PCH Saturday 9am - 1pm COSTA MESA Orange County Fairgrounds Thursday 9am - 1pm

**DOWNTOWN ANAHEIM** 205 Center St Promenade Thursday 11am - 4pm

FULLERTOWN DOWNTOWN Fullerton x Wilshire Thursday 4pm - 8:30pm April—October

IRVINE JAMBOREE MARKETPLACE The Commons Jamboree x Main Wednesday 11am - 2pm Every 3rd Wednesday only

LA PALMA KAISER PERMANENTE #5 Centerpointe Drive Friday 10am - 2pm

LOCAL HARVEST GARDEN GROVE Main x Garden Grove Blvd Sunday 9am - 2pm

PLACENTIA Placentia Town Center Tuesday 4pm - 8pm

SOCO Sunflower x Hyland Saturday 9am - 2pm

YORBA LINDA OLD TOWN 4861 Main Street Saturday 9am - 1pm **DOWNTOWN SANTA ANA** Promenade x Sycamore Sunday 10am - 2pm

GREAT PARK Sand Canyon x Marine Way Sunday 10am - 2pm

IRVINE REGIONAL PARK Irvine Park Rd in Orange Tuesday 8am - 12pm No park admission fee

LAGUNA BEACH Lumberyard Parking Lot near City Hall Saturday 8am - 12pm

NEWPORT BEACH McFadden Square The Newport Pier Sunday 9am - 1pm

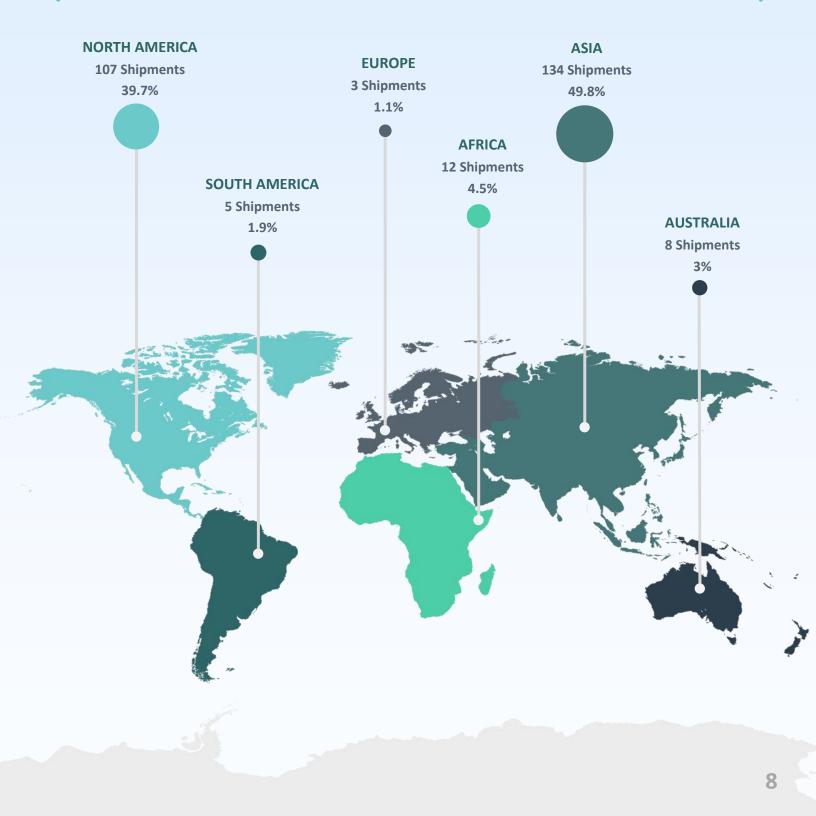
SAN CLEMENTE VILLAGE Avenida Del Mar x Seville Sunday 9am - 1pm

SURF CTY NIGHTS DOWNTOWN STREET FAIR Main x Olive Huntington Beach Tuesday 5pm - 9pm

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## TRADING PARTNERS & PHYTOSANITARY INSPECTIONS

In 2017, the Orange County Agricultural Commissioner's Office issued 269 Federal Phytosanitary Certificates for shipments destined for our international trading partners. Phytosanitary certificates assure that the agricultural commodities produced or processed within Orange County have been inspected and certified by an Accredited Certifying Official to be free from injurious insect pests and plant diseases as required by the importing country.



## **PEST PREVENTION & DETECTION PROGRAMS**

Orange County Agricultural Standards Inspectors work with the California Department of Food and Agriculture to detect and intercept exotic agricultural pests that endanger the livelihood of our local producers and prevent the spread of established pests to un-infested areas. Orange County works in conjunction with our neighboring counties in Southern California to keep track of known pests and remain vigilant of new and possible pest threats.

#### PIERCE'S DISEASE CONTROL PROGRAM

The Glassy-winged sharpshooter (GWSS) is an established pest in Orange County. This leafhopper insect is a vector for *Xyllela fastidiosa*, a bacterium that causes Pierce's Disease in grape vines. This disease has no known cure and is fatal to grapevines, so restricting the movement of the Glassy-winged sharpshooter is the most effective way of keeping the spread of this insect under control. County inspectors partner with local nurseries to install monitoring traps and inspect all host plant material leaving our county to ensure the safety of our agricultural neighbors in Central and Northern California.

- > Inspectors placed 568 traps in nurseries and serviced these traps biweekly
- > 679 GWSS were captured on our nursery traps
- > 1,258 inspections of outgoing plant shipments were completed
- > Most importantly, a total of 0 GWSS were discovered on outgoing shipments in 2017

#### **GYPSY MOTH INSPECTIONS**

The Gypsy Moth is native to Europe and Asia and was introduced to Massachusetts in 1869. Since then this moth has spread to a large portion of the East Coast, where its caterpillars pose a great threat to forests and urban landscaping. This moth prefers to lay its egg sacs in secluded corners of outdoor structures and furniture, so inspections to detect this moth are performed on any outdoor furnishings or equipment that is brought into Orange County from the East Coast.

- > 84 inspections were performed on patio furniture, lawn equipment, BBQ grills, boats, outdoor recreational vehicles, tires, firewood, and any other outdoor household items
  > A total of 0 Gypsy Moths were found on incoming materials in 2017

#### ASIAN CITRUS PSYLLID & HUANGLONGBING (CITRUS GREENING)

Orange County's newest agricultural threat is a small insect called the Asian Citrus Psyllid (ACP). This insect vectors a bacterial pathogen *Candidatus Liberibacter* that causes a citrus disease known by the Chinese name *Huánglóngbìng* (HLB) which directly translates to "yellow dragon disease." This disease causes non-symmetrically yellowing and curling of citrus leaves and uncharacteristic yellow shoots. It has no known cure and is ultimately fatal to the infected tree, and while infected trees may survive for a few years the disease causes the trees to stop producing edible fruit.

Currently the Orange County Agricultural Commissioner's office is working with the State to contact local governments, businesses, and residents to share information and ask that they cooperate with detection and eradication efforts. Any trees that are discovered to be positive for HLB are immediately removed to help eliminate the immediate threat of HLB in the surrounding area and protect California's citrus industry.

## **PEST EXCLUSION PROGRAMS**

Orange County Inspectors work with the California Department of Food and Agriculture and Federal regulatory agencies to inspect all possible methods of plant entry and intercept dangerous exotic pests that can threaten our urban landscapes and agriculture. Orange County Inspectors monitored plant shipments at major UPS and FedEx terminals and conducted inspections on incoming air and sea freight, truck shipments, and at destination nurseries.

- > Inspectors profiled 53,668 plant shipments and inspected 20,894 shipments in 2017
- > 112 shipments were issued a Notice of Rejection

### **PEST INTERCEPTIONS**

Pests intercepted during these inspections were submitted to Entomology, Plant Pathology, and Botany labs for identification and rating. Pests are rated according to their environmental and biological significance as well as their direct and indirect impacts on agricultural production and potential detrimental effects on the environment.

A-rated pests are organisms of known economic importance subject to state enforcement actions such as eradication, quarantine, or rejection. In 2017 25 A-rated pests were submitted for identification. Q-rated pests are organisms requiring a 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.

In 2017 a total of 91 Q-rated pests were submitted for identification. Notable finds are listed below.

Scientific Name	Common Name	Rating
Epiphyas postvittana	Light brown apple moth	Α
Pinnaspis strachani	Lesser snow scale	А
Fiorina externa	Diaspidid scale	Α
Pseudaulacaspis pentagona	White peach scale	А
Aspidiotus destructor	Coconut scale	Α
Orgyia leucostigma	White-marked tussock moth	А
Parmarion martensi	Semi-slug	Α
Pulvinaria psidii	Green shield scale	Α
Singhiella simplex	Ficus whitefly	Α
Pseudaulacaspis cockerelli	Magnolia white scale	А
Diaphorina citri	Asian citrus psyllid	Α
Eleutherodactylus coqui	Coqui frog	Q
Homoptera cinara	Cinara aphids	Q
Pilosella spp	Hawkweed	Q

## **PESTICIDE USE ENFORCEMENT**

The Pesticide Use Enforcement division of the Agricultural Commissioner's office enforces pesticide use laws and regulations to protect the urban and agricultural environment as well as those individuals who work with and around pesticides. Orange County Inspectors work with the Department of Pesticide Regulation and the Structural Pest Control Board to enforce proper pesticide use through active inspections, illness investigations, annual registrations of pest control businesses, and monitoring of pesticide use reports.

In 2017 the Pesticide Use Enforcement division completed the following inspections:

- > 657 full Structural fumigation inspections and 1,898 partial Structural fumigation inspections
- > 149 Structural Application and Mix/Load inspections
- > 219 Pesticide use monitoring and Mix/Load inspections of agricultural and non-ag sites
- > 243 Headquarter inspections

## **WEIGHTS & MEASURES**

The Weights & Measures Program is responsible for ensuring the accuracy of all weighing and measuring devices used commercially in the County to ensure consumer and business confidence during transactions. Devices are tested for accuracy and inspected to determine if they are appropriate for their intended use. The Weights and Measures Program enforces laws and regulations pertaining to Quantity Control, Weighmaster, Service Agency, Petroleum Products, Scanner Verification and investigation of consumer complaints.

In 2017 the Weights & Measures division registered 161,181 commercial devices and including the following:

- > 19,299 Retail Motor Fuel Meters
- > 68,230 Water Sub Meters

- > 6,604 Small Scales
- > 31,520 Electric Sub Meters
- > 89 Vehicle Scales
- > 721 Taximeters
- > 31,850 Hydro Carbon Vapor Sub Meters

Weights and Measures inspectors also perform Price Verification inspections to enforce price accuracy standards at businesses within the County. Inspections are performed at all levels of commerce, from wholesale to retail, to ensure that commodity pricing is accurate and to minimize fraud and misrepresentation.

> 22,141 price scanning devices were registered in 2017

## WEED ABATEMENT ACTIVITIES

Orange County's Weed Abatement program is responsible for the removal of hazardous vegetation and maintenance of fire breaks along structures and roadways in the county's unincorporated areas to increase fire safety and protect Orange County residents against the loss of life and property.

> 1,976,996 square feet (over 45 acres) of weeds were removed by either cutting or discing

### **DEPARTMENT STAFF**

#### **OUR MISSION**

To provide quality leadership and service in State enforcement programs that include agricultural services, weights and measures, and pesticide regulation.

#### AGRICULTURAL COMMISSIONER /SEALER OF WEIGHTS & MEASURES Jeff Croy

#### DEPUTY AGRICULTURAL COMMISSIONERS/SEALERS OF WEIGHTS & MEASURES

Damara Trumbauer | Richard Tiffer | Anthony Bong Lee

SENIOR WEIGHTS AND MEASURES INSPECTORS

Denis Whitfill | Juan Lopez

#### WEIGHTS AND MEASURES INSPECTORS

Gary Smith | Mark Johnson | Mike West | David Skorupski Dugan Fauth | Shane Johnson | Zach Kelly | Jared Munoz

#### SENIOR AGRICULTURAL STANDARDS INSPECTORS

Mark Nestor | Janet Rivas | Abel Castillo | Jana Gibbs | Kathy Kilar Seth Birenbaum | Otto Rieger

#### AGRICULTURAL STANDARDS INSPECTORS

Nagy Mikhail | Rebekah Ban | Candice Skorupski | Stacy Schenkel Jordan Petersen | Albert Bustamante | Emily Hesselgrave | Pete Sandoval Charizma Mendoza | Ngoc-Kieu Tran | Mony Tep | Sophia Yun | Ryan Hayes

> VEGETATION AND PEST CONTROL SUPERVISOR/SPECIALIST Tammy Bragg | Brian Glenn

#### **VEGETATION AND PEST MANAGEMENT TECHNICIANS**

Matthew Dolan | Robert Alfrey | Miguel Barajas | John Hussey Sal Palacios | Daniel Kane | Oscar Cerda | Luis Avila

#### GROUNDSKEEPERS

Mark Martinez | Heriberto Zavala | Edgar Garcia

#### **ADMINISTRATIVE SERVICES**

Christine Knapp | Theresa Thomas | Lisa Pinkevich Shannon Santistevan | Ryane Staley | Nolidad Zielinski



The Orange County Agricultural Commissioner/Sealer of Weights and Measures Office is a division of Orange County Public Works. For more information about our office and a list of our services please visit us at:

www.ocpublicworks.com

www.ocagcomm.com

P: (714) 955-0100 F: (714) 921-2713

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