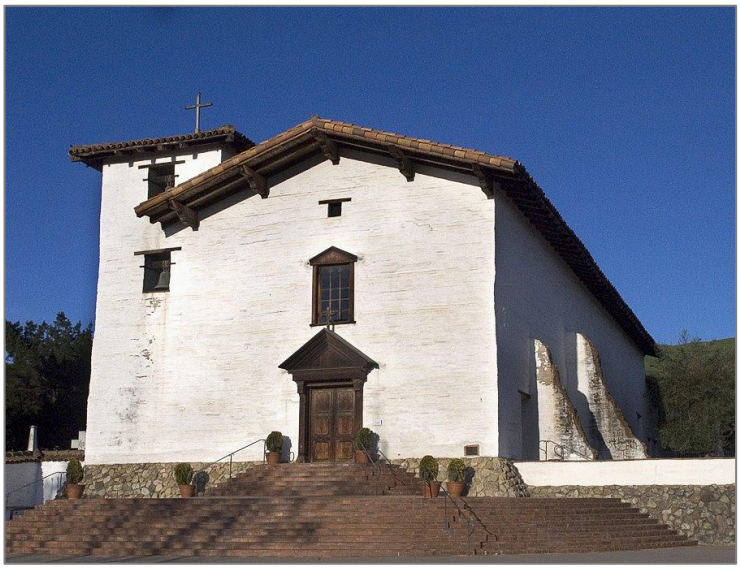
ALAMEDA COUNTY

DEPARTMENT OF AGRICULTURE/WEIGHTS & MEASURES

2016 CROP REPORT

ALAMEDA COUNTY
Community Development Agency

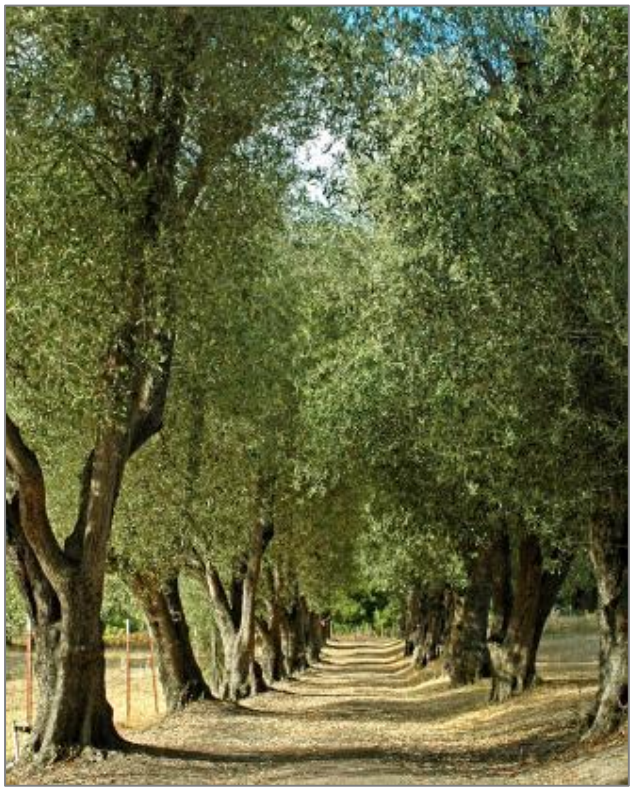
Olive Production in Alameda County



In this year's crop report we feature the longstanding, award winning history of Alameda County agriculture, with a highlight of the rich tradition of olive production dating back to the Franciscan padres. Olives can be considered the climatic counterpart to wine grapes, as they both thrive in the warm Mediterranean climate that we enjoy here in Alameda County. For thousands of years, olive oil has been used for everything from medicine and food to ritualistic ceremony. Alameda County boasts some of the oldest olive groves in the state, which are still producing crops after more than 200 years.

Mission San Jose was founded in 1797 in what is now Fremont, and the first olive trees on that site are believed to have been planted around that time, from trees brought by the missionaries. The trees that are still there today are of the California historic variety, or Mission variety, and are traditionally used for oil production. The other historic varieties found in California are the Manzanillo and Sevillano, which are used for table olives. The Dominican Sisters convent, located behind Old Mission San Jose, began producing olive oil for sacramental purposes in 1898. The first bottle sold that year for $4.00 a gallon. They are still producing olive oil there today, a tradition that resumed in 2000 after a 35 year hiatus.

According to Wood's "History of Alameda County, California" (1883), Robert Livermore planted grapes and olives in 1844 at the site of his home at Rancho Las Positas. It is not hard to imagine that many of the original rancheros planted olives when they moved into the valley, although documentation of this is scarce. In any case, some of the olive trees found from Pleasanton to the Sunol Ridge are of the Mission variety, and thus may have originated from the grove at Old Mission San Jose. (Continued on page 10.)



ALAMEDA COUNTY COMMUNITY DEVELOPMENT AGENCY

AGRICULTURE / WEIGHTS & MEASURES DEPARTMENT

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August 27, 2017

Karen Ross, Secretary
California Department of Food and Agriculture
- and -
The Honorable Board of Supervisors
County of Alameda, California

In accordance with the provisions of Section 2279 of the California Food and Agricultural Code, it is my pleasure to present the 2016 Alameda County Crop Report. This publication is presented annually and reports statistical information on acreage, yield, and gross value of all agricultural products produced in Alameda County.

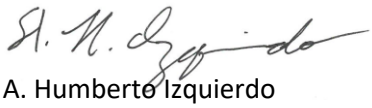
The 2016 estimated total gross value of Alameda County's agricultural production was $48,023,000, a 3.8 percent reduction from the 2015 estimated value of $49,903,000. This loss was due primarily to reductions in livestock sales with reduced prices in 2016 from the record high prices of 2015. Fewer animals were sold in 2016 as a result of smaller herd sizes which have been reduced in recent years due to the drought.

With the observed reductions in livestock sales, fruit and nut crops returned to their usual rank in recent years as the highest valued crop category in Alameda County. In 2016 fruit and nut crops increased 23 percent from 2015 with an estimated value of $18.9M. This dramatic increase was due to increased production acreages reported in 2016 for wine grapes, coupled with sustained high yields.

A significant decrease in vegetable crop production was observed in 2016 due to reduced prices and local production issues. Nursery products increased approximately 5 percent from 2015. Field crops held steady in 2016 at approximately $4.4M in combined production value, but the individual field crops have varied greatly in the types and locations with producers adjusting cropping systems in differing areas of the county.

It is important to emphasize that the numbers in this report are gross values only and do not reflect costs related to production, harvesting, marketing or transportation. These production costs and other farm related services have a significant overall local economic benefit generally thought to be about three times the gross production value.

Respectfully submitted,



A. Humberto Izquierdo
Agricultural Commissioner/
Sealer of Weights and Measures

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Community Development Agency

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Clarice Walker

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GENERAL COUNTY INFORMATION

County Seat, Oakland
County Population (2016) 1,647,704
Land Area (Square Miles) 738
Water Area (Square Miles) 83.8
Persons Per Square Mile (2016) 2,232

14 Incorporated Cities

• Alameda • Albany • Berkeley • Dublin • Emeryville • Fremont • Hayward • Livermore
• Newark • Oakland • Piedmont • Pleasanton • San Leandro • Union City

6 Unincorporated Areas

• Ashland • Castro Valley • Cherryland • Fairview • San Lorenzo • Sunol

Total Assessed Property Value (Local Roll 2017-18)	$280.2 Billion
Total Harvested Crop Acreage	183,164
Major Roads	Interstate 80, Interstate 580, Interstate 680, Interstate 880, Highway 238, Highway 84, Highway 92, Highway 13
Elevation	Sea level to 3,817 ft. at Rose Peak in the southern part of the county
Average Climate	Mild winters and cool summers near San Francisco Bay. The eastern portion of the county is moderately warmer; high temperatures in the Livermore-Amador Valley average 90°F in July.

CROP STATISTICS

FIELD CROPS							
Crop	**Year**	**Harvested Acreage**	**Per Acre**	**Total**	**Unit**	**Per Unit**	**Total**
Hay, Alfalfa	**2016**	**533**	**5.19**	**2766**	**Ton**	**$170.00**	**$470,000**
	2015	355	2.81	998	Ton	$190.00	$190,000
Hay, Other	**2016**	**3052**	**1.43**	**4,364**	**Ton**	**$85.61**	**$374,000**
	2015	2514	1.06	2,665	Ton	$165.56	$441,000
Range & Pasture	**2016**	**175,878**	-----		**Acre**	**$18.82**	**$3,310,000**
	2015	177,798	-----		Acre	$18.73	$3,330,000
Miscellaneous	**2016**	**649**	Includes safflower, wheat, sorghum, etc.				**$213,000**
	2015	835					$330,000
Total	**2016**	**180,112**					**$4,367,000**
	2015	181,502					$4,291,000

FRUIT & NUT CROPS							
Crop	**Year**	**Bearing Acreage**	**Per Acre**	**Total**	**Unit**	**Per Unit**	**Total**
Grapes, Wine Red	**2016**	**1949**	**4.51**	**8,790**	**Ton**	**$1,481.00**	**$13,018,000**
	2015	1807	3.9	7,047	Ton	$1,613.00	$11,367,000
Grapes, Wine White	**2016**	**678**	**5.73**	**3,885**	**Ton**	**$1,331.00**	**$5,171,000**
	2015	591	4.89	2,890	Ton	$1,329.00	$3,841,000
Miscellaneous Fruit & Nut	**2016**	**304**	Includes olives, walnuts, pistachios, pomegranates, etc.				**$770,000**
	2015	321					$186,000
Total	**2016**	**2,931**					**$18,959,000**
	2015	2,719					$15,394,000

VEGETABLE CROPS				
Crop	**Year**	**Harvested Acreage**		**Total**
Miscellaneous Vegetables	**2016**	**121**	Includes broccoli, cabbage, corn, leaf lettuce, greens, pumpkins, tomatoes, squash, etc.	**$1,052,000**
	2015	112		$1,269,000

LIVESTOCK & POULTRY						
Item	**Year**	**No. of Head**	**Total Weight**	**Unit**	**Per Unit**	**Total**
Cattle & Calves	**2016**	**15,847**	**109,996**	**Cwt**	**Various**	**$15,621,000**
	2015	18,210	138,530	Cwt.	Various	$21,466,000
Misc. Poultry and Livestock Products	**2016**	Includes sheep, goats, pigs, bee pollination and apiary products				**$762,000**
	2015					$629,000
Total	**2016**					**$16,383,000**
	2015					$22,095,000

NURSERY PRODUCTS							
Item	**Year**	**House Sq. Ft.**	**Field Acres**	**Quantity Sold**	**Unit**	**Per Unit**	**Total**
Ornamental Trees and Shrubs	**2016**	**27,975**	**114**	**293,689**	**Plt**	**Various**	**$6,262,000**
	2015	21,555	115	325,678	Plt	Various	$5,962,000
Miscellaneous Nursery Products	**2016**	**120,000**	**60**	Includes bedding plants, cut flowers, indoor decoratives, vegetable starts, Christmas trees, etc.			**$1,000,000**
	2015	110,000	60				$891,000
Total	**2016**	**147,975**	**174**				**$7,262,000**
	2015	131,555	175				$6,853,000

COMPARISON SUMMARY					
Item	**2016**	**2015**	**2014**	**2013**	**2012**
Field Crops	**$4,367,000**	$4,292,000	$4,919,000	$5,404,000	$5,611,000
Vegetable Crops	**$1,052,000**	$1,269,000	$1,215,000	$1,020,000	$949,000
Fruit & Nut Crops	**$18,959,000**	$15,394,000	$16,418,000	$16,124,000	$14,259,000
Nursery Products	**$7,262,000**	$6,853,000	$7,966,000	$8,377,000	$10,531,000
Livestock & Poultry	**$16,383,000**	$22,095,000	$15,794,000	$11,032,000	$8,709,000
Total	**$48,023,000**	$49,903,000	$46,312,000	$41,957,000	$40,059,000

PROGRAM REPORTS

PEST DETECTION

Pest detection is the second line of defense against invasive non-native pests from becoming established in areas so vast that it is not possible to control or eradicate an infestation. Insect traps are placed and monitored throughout the county to detect exotic pests that are known to be detrimental to agriculture and the environment.

TARGET PEST	INSECT HOSTS	TRAP SERVICINGS
Mediterranean Fruit Fly	Fruit Trees	79,810
Mexican Fruit Fly	Fruit Trees	
Melon Fruit Fly	Vegetable Gardens	
Oriental Fruit Fly	Fruit Trees	
Miscellaneous Fruit Flies	Fruit Trees and Vegetables	
Gypsy Moth	Shade Trees	
Japanese Beetle	Turf, Roses	
European Pine Shoot Moth	Pine Trees	
***Trogoderma* Beetle**	High Hazard Commodities	
Glassy-Winged Sharpshooter (GWSS)	Landscape/Nursery Plants	12,863
Light Brown Apple Moth	Ornamental/Commercial Crops	27
Asian Citrus Psyllid	Citrus/Nursery Plants	2722
European Grapevine Moth	Vineyards	626

In 2016 exotic insect pests detections included A-rated Gypsy Moth in Castro Valley. The County Agriculture Department deployed a grand total of 7,512 traps to detect the presence of invasive insect pests, and serviced the traps 96,048 times during the year.

PEST EXCLUSION

Pest Exclusion is the first line of defense to prevent non-native invasive pests and diseases, detrimental to agriculture and the environment, from entering the county. Incoming shipments of plant products and other high-risk articles are inspected daily at various shipping terminals to enforce quarantines that are intended to prevent the introduction of harmful pests.

TYPE OF SHIPMENT	SHIPMENTS INSPECTED	SHIPMENTS REJECTED
Parcel Carrier	3772	51 (39 pests)
Trucks	105	2 (2 pests)
Household Goods	113	0
Nursery (GWSS Program)	2651	0

CANINE INSPECTION PROGRAM

Our Canine Inspection Team works at various parcel terminals to detect and inspect unmarked parcels containing unprocessed agricultural commodities to prevent the introduction of pests and diseases. Agriculture detector dogs have been shown to be highly effective in finding pests in parcels and are being used throughout the state to help protect California agriculture.

TYPE OF SHIPMENT	SHIPMENTS INSPECTED	SHIPMENTS REJECTED
Parcel Carrier	1110	390 (158 pests found)

LIGHT BROWN APPLE MOTH PROGRAM	
Compliance Inspections	136
Moths detected in regulatory inspections	12
Businesses Under Compliance Agreement	
Crop Producers	6
Community Gardens/Direct Markets	0
Retail and Production Nurseries	12
Green Waste Facilities	15

SUDDEN OAK DEATH (SOD) PROGRAM	
Compliance Inspections	186
Sudden Oak Death Positives	0
Businesses Under Compliance Agreement	
Shipping Nurseries	14
Green-waste Facilities	15
Wood Products/Wreaths/Greenery	39

PEST MANAGEMENT AND ERADICATION

WEEDS (Common Name/Scientific Name)		CONTROL METHOD	SCOPE OF PROGRAM (No. Sites/Treated Acres)
Puna Grass	*Stipa brachychaeta*	Mechanical Removal	1 site - 0.1 acre
Golden Thistle	*Scolymus hispanicus*	Monitoring	720 acres
Iberian Starthistle	*Centaurea iberica*	Chemical & Mechanical	1 site - 0.1 acre
Dalmatian Toadflax	*Linaria genistifolia*	Mechanical Removal	1 site - 0.1 acre
Japanese Dodder	*Cuscuta japonica*	Chemical/Mechanical	22 sites/1.04 acres
Artichoke Thistle	*Cynara cardunculus*	Chemical/Mechanical	Various, 97.85 acres
Purple Starthistle	*Centaurea calcitrapa*	Chemical/Mechanical	

State agriculture funding to counties for terrestrial weed management was cut in 2011. Some additional support funding has been obtained intermittently for specific pests such as Japanese Dodder. Our department maintains long-standing weed management activities to the extent possible through collaborative partnerships with public and private land managers for the control of state-listed noxious weeds of regional and regulatory concern. The table above describes work performed by our department in the past year through these sources and partnerships. Other weeds of concern in our region include; Barb Goatgrass, Medusahead, Hoary Cresses, Rush Skeletonweed, White Horsenettle, and other invasive noxious weed detections as they arise.

SUSTAINABLE AGRICULTURE REPORTING

ORGANIC FARMING		
CROP	**REGISTERED PRODUCERS**	**ESTIMATED ACREAGE**
Miscellaneous	11	175

URBAN FARMING		
TYPE	**NUMBER**	**ESTIMATED ACREAGE**
Community Gardens	36	52
School Gardens	269	92
Certified Farmers Markets	33	702 stalls
Certified Producers	16	104 acres

COUNTY BIOLOGICAL CONTROL

Biological control (biocontrol) involves the reduction of pest populations through the use of natural enemies such as parasitoids, predators, pathogens, antagonists, or competitors.

PEST	AGENTS	SCOPE OF PROGRAM
Yellow Star-thistle *Centaurea solstitialis*	Bud Weevil *Bangasternus orientalis*	Found in most areas of the County
	Seed-head Gall Fly *Urophora sirunaseva*	Found in most areas of the County
	Seed-head Fly *Chaetorellia* spp.	Found in most areas of the County
	Hairy Weevil *Eustenopus villosus*	Found in most areas of the County
	Rust Fungus *Puccinia jaceae* var. *solstitialis*	Released at 3 sites

EQUINE STATISTICS

Commercial use of horses is now considered as an agricultural use for purposes of the Williamson Act. This category includes the breeding and training of race horses, competition horses, and ranch horses for the purpose of commercial sale.

TYPE	NUMBER
Race Horses	2000
Competition Horses	1000
Ranch Horses	1500
Recreation/Pleasure*	5000

*Ineligible for Williamson Act as economic benefit to agriculture; however, this category of horses is recognized for its ancillary benefit.

Olive Production in Alameda County (continued from page 1)

In Livermore, at the corner of Arroyo Rd and Wetmore, you can view the Olivina arch. The arch marks the original entrance to Olivina, founded in 1881 by Julias Paul Smith. Olivina was the second winery in the Livermore Valley after Cresta Blanca. Alongside the vineyards, Smith planted olive trees, hence the name Olivina. The trees Smith planted were clippings brought from the grove at Old Mission San Jose. Many of the trees Smith planted are still producing and being used for olive oil today, over 130 years later. In 1999, over 11,000 olive trees were planted on the estate making it the largest olive orchard in the East Bay. Olivina received its first international gold medal for wine in the 1880's and for olive oil in 2007. The estate has been managed by the Crohare family since the late 1930's.

Just as olive oil production throughout California has seen a resurgence in recent times, olive oil producers throughout Alameda County have continued to emerge. Many local farms are family owned and operated, consisting of trees in the few hundreds to thousands. Some local businesses produce olive oil strictly for use in their facilities, while others sell limited quantity to the public. In 2016 the California Olive Oil Council (COOC) located in Berkeley, certified three producers from our county as extra virgin grade which requires both a chemical and sensory analysis each year.

While olive oil is both delectable and versatile, increased awareness of the health benefits associated with consuming unsaturated fatty acids like those found in olive oil, have further increased its popularity. With our ideal climatic conditions you can expect olive production in Alameda County to continue to flourish just as it has for over two centuries.

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Community Development Agency

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Mission

To enrich the lives of Alameda County residents through visionary policies and accessible, responsive and effective services.

Vision

Alameda County is recognized as one of the best counties in which to live, work, and do business.

Values

Integrity, honesty, and respect fostering mutual trust.
Transparency and accountability achieved through open communications and involvement of diverse community voices.
Fiscal Stewardship reflecting the responsible management of resources.
Customer service built on commitment, accessibility, and responsiveness.
Excellence in performance based on strong leadership, teamwork and a willingness to take risks.
Diversity recognizing the unique qualities of every individual and his or her perspective.
Environmental stewardship to preserve, protect and restore our natural resources.
Social responsibility promoting self-sufficiency, economic independence and an interdependent system of care and support.
Compassion ensuring all people are treated with respect, dignity and fairness.